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

DATA PACKAGE

VOLATILE ORGANICS

PROJECT NAME : NWIRP BETHPAGE 112G08005-WE13

TETRA TECH NUS, INC.

661 Andersen Drive

Suite 200

Pittsburgh, PA - 15220-2745

Phone No: 412-921-7090

ORDER ID : Q2118

ATTENTION : Ernie Wu

Laboratory Certification ID # 20012

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Cover Page

Order ID : Q2118

Project ID : NWIRP Bethpage 112G08005-WE13

Client : Tetra Tech NUS, Inc.

Lab Sample Number	Client Sample Number
Q2118-01	BP-VPB-182-TB-20250520
Q2118-02	BP-VPB-182-GW-420-422
Q2118-03	BP-VPB-182-GW-450-452
Q2118-04	BP-VPB-182-DUP-20250520
Q2118-05	BP-VPB-182-GW-460-462
Q2118-06	BP-VPB-182-GW-480-482
Q2118-07	BP-VPB-182-GW-500-502
Q2118-08	BP-VPB-182-GW-520-522
Q2118-09	BP-VPB-182-GW-540-542
Q2118-10	BP-VPB-182-GW-560-562
Q2118-11	BP-VPB-182-GW-500-502

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

Signature : _____

Date: 5/30/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

Tetra Tech NUS, Inc.
Project Name: NWIRP Bethpage 112G08005-WE13
Project Manager # Ernie Wu
Order ID # Q2118
Test Name: VOCMS Group1

A. Number of Samples and Date of Receipt:
1 Solid sample was received on 05/22/2025.
10 Water samples were received on 05/22/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: SVOC-SIMGroup1 and VOCMS Group1. This data package contains results for VOCMS Group1.

C. Analytical Techniques:
The analysis performed on instrument MSVOA_X were done using GC column DB-624UI 20m 0.18mm 1.0 um. Cat#121-1324UIThe analysis performed on instrument MSVOA_Y were done using GC column Rxi-624SIL MS 30m, 0.25mm, 1.4 um, Cat. #13868.The analysis of VOCMS Group1 was based on method 8260D.

D. QA/ QC Samples:
The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria except for BP-VPB-182-GW-500-502 [4-Bromofluorobenzene - 77%], BP-VPB-182-GW-500-502RE [4-Bromofluorobenzene - 76%] sample was reanalyzed to confirm the failure and reported.

The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The RPD met criteria.

The Blank Spike for {VY0523SBS01} with File ID: VY022409.D met requirements for all samples except for Bromomethane[173%] is failing high but no positive hit in associate sample therefore no corrective action taken.

The Blank Spike Duplicate for {VY0523SBSD01} with File ID: VY022410.D met requirements for all samples except for Bromomethane[187%], Chloroethane[155%] are failing high but no positive hit in associate sample therefore no corrective action taken.

The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements.

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The Continuous Calibration File ID VY022407.D met the requirements except for Bromomethane,Chloroethane and Vinyl Chloride are failing high but no positive hit in associate sample therefore no corrective action taken.

The Tuning criteria met requirements.

E. Additional Comments:
Samples for MS/MSD for VOC analysis were not provided with this set of samples.
The Blank Spike Duplicate is reported with the data.

The laboratory certifies that the all-electronic diskette deliverable exactly match the data summary forms (i.e. Form Is)."

The not QT review data is reported in the Miscellaneous.
Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is >20% for the Initial Calibration curve for SW-846 analysis.

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

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

Signature_____

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

DATA REPORTING QUALIFIERS- ORGANIC

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

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

ALLIANCE 284 Sheffield Street, Mountainside New Jersey 07092

NEW JERSEY LAB ID#: 20012: NEW YORK LAB ID#: 11376

GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY

ORDER ID: Q2118 MATRIX: /Water

METHOD: 8260D

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications BFB Meet Criteria (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements. The Initial Calibration met the requirements. The Continuous Calibration File ID VY022407.D met the requirements except for Bromomethane,Chloroethane and Vinyl Chloride are failing high but no positive hit in associate sample therefore no corrective action taken.			✓
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
7.	Surrogate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable ranges. The Surrogate recoveries met the acceptable criteria except for BP-VPB-182-GW-500-502 [4-Bromofluorobenzene - 77%], BP-VPB-182-GW-500-502RE [4-Bromofluorobenzene - 76%] sample was reanalyzed to confirm the failure and reported.		✓	
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable range. The Blank Spike for {VY0523SBS01} with File ID: VY022409.D met requirements for all samples except for Bromomethane[173%] is failing high but no positive hit in associate sample therefore no corrective action taken. The Blank Spike Duplicate for {VY0523SBSD01} with File ID: VY022410.D met requirements for all samples except for Bromomethane[187%], Chloroethane[155%] are failing high but no positive hit in associate sample therefore no corrective action taken.			✓

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

		NA	NO	YES
9.	Internal Standard Area/Retention Time Shift Meet Criteria			✓
	Comments:			
10.	Analysis Holding Time Met			✓
	If not met, list number of days exceeded for each sample:			

ADDITIONAL COMMENTS:

Samples for MS/MSD for VOC analysis were not provided with this set of samples. The Blank Spike Duplicate is reported with the data.

The laboratory certifies that the all-electronic diskette deliverable exactly match the data Summary forms (i.e. Form Is)."

The not QT review data is reported in the Miscellaneous.

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the % RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is >20% for the Initial Calibration curve for SW-846 analysis.

_____ _____

QA REVIEW Date

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q2118

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

QA Review Signature: SOHIL JODHANI **Date:** 05/30/2025

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LAB CHRONICLE

OrderID:	Q2118	**OrderDate:**	5/22/2025 3:57:00 PM
Client:	Tetra Tech NUS, Inc.	**Project:**	NWIRP Bethpage 112G08005-WE13
Contact:	Ernie Wu	**Location:**	L41,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2118-01	**BP-VPB-182-TB-20250520**	**Water**			**05/20/25**			**05/22/25**
			VOCMS Group1	8260-Low			05/23/25	
Q2118-02	**BP-VPB-182-GW-420-422**	**Water**			**05/20/25**			**05/22/25**
			VOCMS Group1	8260-Low			05/23/25	
Q2118-03	**BP-VPB-182-GW-450-452**	**Water**			**05/20/25**			**05/22/25**
			VOCMS Group1	8260-Low			05/23/25	
Q2118-04	**BP-VPB-182-DUP-20250520**	**Water**			**05/20/25**			**05/22/25**
			VOCMS Group1	8260-Low			05/23/25	
Q2118-05	**BP-VPB-182-GW-460-462**	**Water**			**05/21/25**			**05/22/25**
			VOCMS Group1	8260-Low			05/23/25	
Q2118-06	**BP-VPB-182-GW-480-482**	**Water**			**05/21/25**			**05/22/25**
			VOCMS Group1	8260-Low			05/23/25	
Q2118-08	**BP-VPB-182-GW-520-522**	**Water**			**05/22/25**			**05/22/25**
			VOCMS Group1	8260-Low			05/23/25	
Q2118-09	**BP-VPB-182-GW-540-542**	**Water**			**05/22/25**			**05/22/25**
			VOCMS Group1	8260-Low			05/23/25	
Q2118-10	**BP-VPB-182-GW-560-562**	**Water**			**05/22/25**			**05/22/25**
			VOCMS Group1	8260-Low			05/23/25	

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LAB CHRONICLE

Q2118-11	**BP-VPB-182-GW-500-502**	**SOIL**			**05/21/25**	**05/22/25**
			VOCMS Group1	8260D		05/23/25
Q2118-11RE	**BP-VPB-182-GW-500-502**	**SOIL**			**05/21/25**	**05/22/25**
			VOCMS Group1	8260D		05/27/25

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Hit Summary Sheet
SW-846

SDG No.: Q2118

Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID:	**BP-VPB-182-GW-420-422**								
Q2118-02	BP-VPB-182-GW-4	Water	Acetone	2.70	J	1.50	3.80	5.00	ug/L
Q2118-02	BP-VPB-182-GW-4	Water	Carbon Disulfide	0.36	J	0.21	0.75	1.00	ug/L
			Total Voc :	3.06					
			Total Concentration:	3.06					
Client ID:	**BP-VPB-182-GW-450-452**								
Q2118-03	BP-VPB-182-GW-4	Water	Acetone	2.70	J	1.50	3.80	5.00	ug/L
			Total Voc :	2.70					
			Total Concentration:	2.70					
Client ID:	**BP-VPB-182-DUP-20250520**								
Q2118-04	BP-VPB-182-DUP-	Water	Acetone	3.00	J	1.50	3.80	5.00	ug/L
			Total Voc :	3.00					
			Total Concentration:	3.00					
Client ID:	**BP-VPB-182-GW-460-462**								
Q2118-05	BP-VPB-182-GW-4	Water	Acetone	2.90	J	1.50	3.80	5.00	ug/L
Q2118-05	BP-VPB-182-GW-4	Water	Carbon Disulfide	0.45	J	0.21	0.75	1.00	ug/L
			Total Voc :	3.35					
			Total Concentration:	3.35					
Client ID:	**BP-VPB-182-GW-480-482**								
Q2118-06	BP-VPB-182-GW-4	Water	Acetone	3.00	J	1.50	3.80	5.00	ug/L
			Total Voc :	3.00					
			Total Concentration:	3.00					
Client ID:	**BP-VPB-182-GW-520-522**								
Q2118-08	BP-VPB-182-GW-5	Water	Chloromethane	0.79	J	0.32	0.50	1.00	ug/L
Q2118-08	BP-VPB-182-GW-5	Water	Acetone	2.40	J	1.50	3.80	5.00	ug/L
			Total Voc :	3.19					
			Total Concentration:	3.19					
Client ID:	**BP-VPB-182-GW-540-542**								
Q2118-09	BP-VPB-182-GW-5	Water	Acetone	1.80	J	1.50	3.80	5.00	ug/L
			Total Voc :	1.80					
			Total Concentration:	1.80					
Client ID:	**BP-VPB-182-GW-560-562**								
Q2118-10	BP-VPB-182-GW-5	Water	Acetone	1.90	J	1.50	3.80	5.00	ug/L
			Total Voc :	1.90					
			Total Concentration:	1.90					

QC SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Surrogate Summary

SDG No.: Q2118

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits Low	Limits High
Q2118-11	BP-VPB-182-GW-500-502	1,2-Dichloroethane-d4	50	54.8	110		71	136
		Dibromofluoromethane	50	51.9	104		78	119
		Toluene-d8	50	48.5	97		85	116
		4-Bromofluorobenzene	50	38.4	77	*	79	119
Q2118-11RE	BP-VPB-182-GW-500-502RE	1,2-Dichloroethane-d4	50	53.3	107		71	136
		Dibromofluoromethane	50	51.9	104		78	119
		Toluene-d8	50	49.3	99		85	116
		4-Bromofluorobenzene	50	38.0	76	*	79	119
VY0523SBL01	VY0523SBL01	1,2-Dichloroethane-d4	50	56.1	112		71	136
		Dibromofluoromethane	50	56.7	113		78	119
		Toluene-d8	50	54.7	109		85	116
		4-Bromofluorobenzene	50	44.0	88		79	119
VY0523SBS01	VY0523SBS01	1,2-Dichloroethane-d4	50	50.7	101		71	136
		Dibromofluoromethane	50	53.6	107		78	119
		Toluene-d8	50	53.5	107		85	116
		4-Bromofluorobenzene	50	48.8	98		79	119
VY0523SBSD01	VY0523SBSD01	1,2-Dichloroethane-d4	50	51.6	103		71	136
		Dibromofluoromethane	50	51.4	103		78	119
		Toluene-d8	50	51.3	103		85	116
		4-Bromofluorobenzene	50	47.5	95		79	119
VY0527SBL01	VY0527SBL01	1,2-Dichloroethane-d4	50	51.0	102		71	136
		Dibromofluoromethane	50	50.9	102		78	119
		Toluene-d8	50	50.2	100		85	116
		4-Bromofluorobenzene	50	42.8	86		79	119
VY0527SBS01	VY0527SBS01	1,2-Dichloroethane-d4	50	52.0	104		71	136
		Dibromofluoromethane	50	51.1	102		78	119
		Toluene-d8	50	50.2	100		85	116
		4-Bromofluorobenzene	50	48.5	97		79	119

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Surrogate Summary

SDG No.: Q2118

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
Q2118-01	BP-VPB-182-TB-20250520	1,2-Dichloroethane-d4	50	53.0	106	81	118
		Dibromofluoromethane	50	50.2	100	80	119
		Toluene-d8	50	50.4	101	89	112
		4-Bromofluorobenzene	50	52.9	106	85	114
Q2118-02	BP-VPB-182-GW-420-422	1,2-Dichloroethane-d4	50	52.7	105	81	118
		Dibromofluoromethane	50	50.5	101	80	119
		Toluene-d8	50	50.7	101	89	112
		4-Bromofluorobenzene	50	49.8	100	85	114
Q2118-03	BP-VPB-182-GW-450-452	1,2-Dichloroethane-d4	50	54.0	108	81	118
		Dibromofluoromethane	50	51.4	103	80	119
		Toluene-d8	50	51.2	102	89	112
		4-Bromofluorobenzene	50	50.1	100	85	114
Q2118-04	BP-VPB-182-DUP-20250520	1,2-Dichloroethane-d4	50	54.1	108	81	118
		Dibromofluoromethane	50	50.9	102	80	119
		Toluene-d8	50	50.5	101	89	112
		4-Bromofluorobenzene	50	49.7	99	85	114
Q2118-05	BP-VPB-182-GW-460-462	1,2-Dichloroethane-d4	50	53.5	107	81	118
		Dibromofluoromethane	50	50.4	101	80	119
		Toluene-d8	50	50.2	100	89	112
		4-Bromofluorobenzene	50	51.9	104	85	114
Q2118-06	BP-VPB-182-GW-480-482	1,2-Dichloroethane-d4	50	53.3	107	81	118
		Dibromofluoromethane	50	50.7	101	80	119
		Toluene-d8	50	50.8	102	89	112
		4-Bromofluorobenzene	50	51.7	103	85	114
Q2118-08	BP-VPB-182-GW-520-522	1,2-Dichloroethane-d4	50	53.3	107	81	118
		Dibromofluoromethane	50	51.0	102	80	119
		Toluene-d8	50	50.4	101	89	112
		4-Bromofluorobenzene	50	50.0	100	85	114
Q2118-09	BP-VPB-182-GW-540-542	1,2-Dichloroethane-d4	50	53.8	108	81	118
		Dibromofluoromethane	50	51.2	102	80	119
		Toluene-d8	50	51.1	102	89	112
		4-Bromofluorobenzene	50	52.3	105	85	114
Q2118-10	BP-VPB-182-GW-560-562	1,2-Dichloroethane-d4	50	54.2	108	81	118
		Dibromofluoromethane	50	50.6	101	80	119
		Toluene-d8	50	50.3	101	89	112
		4-Bromofluorobenzene	50	49.6	99	85	114
VX0523WBL01	VX0523WBL01	1,2-Dichloroethane-d4	50	53.2	106	81	118
		Dibromofluoromethane	50	52.0	104	80	119
		Toluene-d8	50	51.1	102	89	112
		4-Bromofluorobenzene	50	51.9	104	85	114
VX0523WBS01	VX0523WBS01	1,2-Dichloroethane-d4	50	50.5	101	81	118
		Dibromofluoromethane	50	52.4	105	80	119
		Toluene-d8	50	50.7	101	89	112
		4-Bromofluorobenzene	50	51.4	103	85	114
VX0523WBSD0	VX0523WBSD01	1,2-Dichloroethane-d4	50	50.2	100	81	118
		Dibromofluoromethane	50	51.1	102	80	119
		Toluene-d8	50	50.3	101	89	112
		4-Bromofluorobenzene	50	51.8	104	85	114

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2118

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260-Low **Datafile :** VX046334.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0523WBS01	Chloromethane	20	18.7	ug/L	94			50	139	
	Vinyl chloride	20	17.8	ug/L	89			58	137	
	Bromomethane	20	18.3	ug/L	92			53	141	
	Chloroethane	20	19.2	ug/L	96			60	138	
	Trichlorofluoromethane	20	19.9	ug/L	100			65	141	
	1,1,2-Trichlorotrifluoroethane	20	20.1	ug/L	101			70	136	
	1,1-Dichloroethene	20	19.3	ug/L	97			71	131	
	Acetone	100	100	ug/L	100			39	160	
	Carbon disulfide	20	15.4	ug/L	77			64	133	
	Methyl tert-butyl Ether	20	20.7	ug/L	104			71	124	
	Methylene Chloride	20	18.6	ug/L	93			74	124	
	trans-1,2-Dichloroethene	20	19.0	ug/L	95			75	124	
	1,1-Dichloroethane	20	20.3	ug/L	102			77	125	
	2-Butanone	100	110	ug/L	110			56	143	
	Carbon Tetrachloride	20	20.4	ug/L	102			72	136	
	cis-1,2-Dichloroethene	20	20.4	ug/L	102			78	123	
	Chloroform	20	21.0	ug/L	105			79	124	
	1,1,1-Trichloroethane	20	20.4	ug/L	102			74	131	
	Methylcyclohexane	20	18.4	ug/L	92			72	132	
	Benzene	20	20.3	ug/L	102			79	120	
	1,2-Dichloroethane	20	20.7	ug/L	104			73	128	
	Trichloroethene	20	19.8	ug/L	99			79	123	
	1,2-Dichloropropane	20	21.1	ug/L	106			78	122	
	Bromodichloromethane	20	20.8	ug/L	104			79	125	
	4-Methyl-2-Pentanone	100	110	ug/L	110			67	130	
	Toluene	20	20.4	ug/L	102			80	121	
	t-1,3-Dichloropropene	20	19.5	ug/L	98			73	127	
	cis-1,3-Dichloropropene	20	20.7	ug/L	104			75	124	
	1,1,2-Trichloroethane	20	21.8	ug/L	109			80	119	
	2-Hexanone	100	110	ug/L	110			57	139	
	Dibromochloromethane	20	21.0	ug/L	105			74	126	
	Tetrachloroethene	20	20.9	ug/L	104			74	129	
	Chlorobenzene	20	20.1	ug/L	101			82	118	
	Ethyl Benzene	20	20.3	ug/L	102			79	121	
	m/p-Xylenes	40	40.6	ug/L	102			80	121	
	o-Xylene	20	20.5	ug/L	103			78	122	
	Styrene	20	21.0	ug/L	105			78	123	
	Bromoform	20	19.4	ug/L	97			66	130	
	Isopropylbenzene	20	20.2	ug/L	101			72	131	
	1,1,2,2-Tetrachloroethane	20	20.2	ug/L	101			71	121	
	1,3-Dichlorobenzene	20	20.0	ug/L	100			80	119	
	1,4-Dichlorobenzene	20	19.8	ug/L	99			79	118	
	1,2-Dichlorobenzene	20	20.6	ug/L	103			80	119	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2118

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260-Low **Datafile :** VX046337.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0523WBSD01	Chloromethane	20	18.5	ug/L	93	1		50	139	20
	Vinyl chloride	20	17.4	ug/L	87	2		58	137	20
	Bromomethane	20	17.6	ug/L	88	4		53	141	20
	Chloroethane	20	19.9	ug/L	100	4		60	138	20
	Trichlorofluoromethane	20	19.6	ug/L	98	2		65	141	20
	1,1,2-Trichlorotrifluoroethane	20	19.6	ug/L	98	3		70	136	20
	1,1-Dichloroethene	20	18.5	ug/L	93	4		71	131	20
	Acetone	100	100	ug/L	100	0		39	160	20
	Carbon disulfide	20	14.1	ug/L	71	8		64	133	20
	Methyl tert-butyl Ether	20	20.8	ug/L	104	0		71	124	20
	Methylene Chloride	20	18.6	ug/L	93	0		74	124	20
	trans-1,2-Dichloroethene	20	18.6	ug/L	93	2		75	124	20
	1,1-Dichloroethane	20	20.5	ug/L	103	1		77	125	20
	2-Butanone	100	110	ug/L	110	0		56	143	20
	Carbon Tetrachloride	20	19.1	ug/L	96	6		72	136	20
	cis-1,2-Dichloroethene	20	20.2	ug/L	101	1		78	123	20
	Chloroform	20	21.0	ug/L	105	0		79	124	20
	1,1,1-Trichloroethane	20	20.4	ug/L	102	0		74	131	20
	Methylcyclohexane	20	18.6	ug/L	93	1		72	132	20
	Benzene	20	20.4	ug/L	102	0		79	120	20
	1,2-Dichloroethane	20	20.7	ug/L	104	0		73	128	20
	Trichloroethene	20	19.8	ug/L	99	0		79	123	20
	1,2-Dichloropropane	20	21.3	ug/L	106	0		78	122	20
	Bromodichloromethane	20	20.3	ug/L	102	2		79	125	20
	4-Methyl-2-Pentanone	100	110	ug/L	110	0		67	130	20
	Toluene	20	20.7	ug/L	104	2		80	121	20
	t-1,3-Dichloropropene	20	19.3	ug/L	97	1		73	127	20
	cis-1,3-Dichloropropene	20	20.0	ug/L	100	4		75	124	20
	1,1,2-Trichloroethane	20	21.7	ug/L	109	0		80	119	20
	2-Hexanone	100	110	ug/L	110	0		57	139	20
	Dibromochloromethane	20	20.3	ug/L	102	3		74	126	20
	Tetrachloroethene	20	20.2	ug/L	101	3		74	129	20
	Chlorobenzene	20	20.0	ug/L	100	1		82	118	20
	Ethyl Benzene	20	20.7	ug/L	104	2		79	121	20
	m/p-Xylenes	40	41.1	ug/L	103	1		80	121	20
	o-Xylene	20	21.0	ug/L	105	2		78	122	20
	Styrene	20	21.5	ug/L	108	3		78	123	20
	Bromoform	20	18.5	ug/L	93	4		66	130	20
	Isopropylbenzene	20	21.5	ug/L	108	7		72	131	20
	1,1,2,2-Tetrachloroethane	20	21.2	ug/L	106	5		71	121	20
	1,3-Dichlorobenzene	20	20.6	ug/L	103	3		80	119	20
	1,4-Dichlorobenzene	20	20.6	ug/L	103	4		79	118	20
	1,2-Dichlorobenzene	20	21.9	ug/L	110	7		80	119	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2118

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260D **Datafile :** VY022409.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0523SBS01	Chloromethane	20	24.0	ug/Kg	120			50	136	
	Vinyl chloride	20	25.2	ug/Kg	126			56	135	
	Bromomethane	20	34.5	ug/Kg	173		*	53	143	
	Chloroethane	20	27.1	ug/Kg	136			59	139	
	Trichlorofluoromethane	20	22.9	ug/Kg	115			62	140	
	1,1,2-Trichlorotrifluoroethane	20	22.8	ug/Kg	114			66	136	
	1,1-Dichloroethene	20	22.1	ug/Kg	111			70	131	
	Acetone	100	140	ug/Kg	140			36	164	
	Carbon disulfide	20	19.9	ug/Kg	100			63	132	
	Methyl tert-butyl Ether	20	20.1	ug/Kg	101			73	125	
	Methylene Chloride	20	19.6	ug/Kg	98			70	128	
	trans-1,2-Dichloroethene	20	20.4	ug/Kg	102			74	125	
	1,1-Dichloroethane	20	20.0	ug/Kg	100			76	125	
	2-Butanone	100	110	ug/Kg	110			51	148	
	Carbon Tetrachloride	20	20.9	ug/Kg	104			70	135	
	cis-1,2-Dichloroethene	20	20.5	ug/Kg	103			77	123	
	Chloroform	20	20.5	ug/Kg	103			78	123	
	1,1,1-Trichloroethane	20	20.7	ug/Kg	104			73	130	
	Methylcyclohexane	20	21.4	ug/Kg	107			66	133	
	Benzene	20	20.3	ug/Kg	102			77	121	
	1,2-Dichloroethane	20	19.6	ug/Kg	98			73	128	
	Trichloroethene	20	20.8	ug/Kg	104			77	123	
	1,2-Dichloropropane	20	20.0	ug/Kg	100			76	123	
	Bromodichloromethane	20	20.0	ug/Kg	100			75	127	
	4-Methyl-2-Pentanone	100	92.8	ug/Kg	93			65	135	
	Toluene	20	20.2	ug/Kg	101			77	121	
	t-1,3-Dichloropropene	20	19.6	ug/Kg	98			71	130	
	cis-1,3-Dichloropropene	20	19.7	ug/Kg	99			74	126	
	1,1,2-Trichloroethane	20	20.2	ug/Kg	101			78	121	
	2-Hexanone	100	100	ug/Kg	100			53	145	
	Dibromochloromethane	20	20.4	ug/Kg	102			74	126	
	Tetrachloroethene	20	21.1	ug/Kg	106			73	128	
	Chlorobenzene	20	20.5	ug/Kg	103			79	120	
	Ethyl Benzene	20	20.3	ug/Kg	102			76	122	
	m/p-Xylenes	40	40.6	ug/Kg	102			77	124	
	o-Xylene	20	19.9	ug/Kg	100			77	123	
	Styrene	20	19.8	ug/Kg	99			76	124	
	Bromoform	20	20.0	ug/Kg	100			67	132	
	Isopropylbenzene	20	21.0	ug/Kg	105			68	134	
	1,1,2,2-Tetrachloroethane	20	20.9	ug/Kg	104			70	124	
	1,3-Dichlorobenzene	20	20.2	ug/Kg	101			77	121	
	1,4-Dichlorobenzene	20	20.5	ug/Kg	103			75	120	
	1,2-Dichlorobenzene	20	20.5	ug/Kg	103			78	121	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2118

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260D **Datafile :** VY022410.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0523SBSD01	Chloromethane	20	24.0	ug/Kg	120	0		50	136	20
	Vinyl chloride	20	25.2	ug/Kg	126	0		56	135	20
	Bromomethane	20	37.3	ug/Kg	187	8	*	53	143	20
	Chloroethane	20	31.0	ug/Kg	155	13	*	59	139	20
	Trichlorofluoromethane	20	25.4	ug/Kg	127	10		62	140	20
	1,1,2-Trichlorotrifluoroethane	20	21.8	ug/Kg	109	4		66	136	20
	1,1-Dichloroethene	20	19.9	ug/Kg	100	10		70	131	20
	Acetone	100	120	ug/Kg	120	15		36	164	20
	Carbon disulfide	20	19.3	ug/Kg	97	3		63	132	20
	Methyl tert-butyl Ether	20	20.2	ug/Kg	101	0		73	125	20
	Methylene Chloride	20	19.2	ug/Kg	96	2		70	128	20
	trans-1,2-Dichloroethene	20	20.0	ug/Kg	100	2		74	125	20
	1,1-Dichloroethane	20	19.5	ug/Kg	98	2		76	125	20
	2-Butanone	100	100	ug/Kg	100	10		51	148	20
	Carbon Tetrachloride	20	19.6	ug/Kg	98	6		70	135	20
	cis-1,2-Dichloroethene	20	20.5	ug/Kg	103	0		77	123	20
	Chloroform	20	20.1	ug/Kg	101	2		78	123	20
	1,1,1-Trichloroethane	20	19.7	ug/Kg	99	5		73	130	20
	Methylcyclohexane	20	20.0	ug/Kg	100	7		66	133	20
	Benzene	20	19.4	ug/Kg	97	5		77	121	20
	1,2-Dichloroethane	20	19.6	ug/Kg	98	0		73	128	20
	Trichloroethene	20	20.4	ug/Kg	102	2		77	123	20
	1,2-Dichloropropane	20	19.0	ug/Kg	95	5		76	123	20
	Bromodichloromethane	20	19.7	ug/Kg	99	1		75	127	20
	4-Methyl-2-Pentanone	100	93.8	ug/Kg	94	1		65	135	20
	Toluene	20	18.9	ug/Kg	95	6		77	121	20
	t-1,3-Dichloropropene	20	18.8	ug/Kg	94	4		71	130	20
	cis-1,3-Dichloropropene	20	19.0	ug/Kg	95	4		74	126	20
	1,1,2-Trichloroethane	20	20.7	ug/Kg	104	3		78	121	20
	2-Hexanone	100	95.3	ug/Kg	95	5		53	145	20
	Dibromochloromethane	20	19.5	ug/Kg	98	4		74	126	20
	Tetrachloroethene	20	19.6	ug/Kg	98	8		73	128	20
	Chlorobenzene	20	19.5	ug/Kg	98	5		79	120	20
	Ethyl Benzene	20	18.8	ug/Kg	94	8		76	122	20
	m/p-Xylenes	40	37.8	ug/Kg	95	7		77	124	20
	o-Xylene	20	18.9	ug/Kg	95	5		77	123	20
	Styrene	20	18.5	ug/Kg	93	6		76	124	20
	Bromoform	20	19.0	ug/Kg	95	5		67	132	20
	Isopropylbenzene	20	19.5	ug/Kg	98	7		68	134	20
	1,1,2,2-Tetrachloroethane	20	21.2	ug/Kg	106	2		70	124	20
	1,3-Dichlorobenzene	20	18.9	ug/Kg	95	6		77	121	20
	1,4-Dichlorobenzene	20	19.1	ug/Kg	96	7		75	120	20
	1,2-Dichlorobenzene	20	19.1	ug/Kg	96	7		78	121	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2118

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260D **Datafile :** VY022430.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY0527SBS01	Chloromethane	20	24.6	ug/Kg	123			50	136	
	Vinyl chloride	20	22.2	ug/Kg	111			56	135	
	Bromomethane	20	24.5	ug/Kg	123			53	143	
	Chloroethane	20	23.5	ug/Kg	117			59	139	
	Trichlorofluoromethane	20	23.3	ug/Kg	117			62	140	
	1,1,2-Trichlorotrifluoroethane	20	21.8	ug/Kg	109			66	136	
	1,1-Dichloroethene	20	21.4	ug/Kg	107			70	131	
	Acetone	100	97.6	ug/Kg	98			36	164	
	Carbon disulfide	20	21.3	ug/Kg	106			63	132	
	Methyl tert-butyl Ether	20	21.0	ug/Kg	105			73	125	
	Methylene Chloride	20	20.7	ug/Kg	104			70	128	
	trans-1,2-Dichloroethene	20	21.4	ug/Kg	107			74	125	
	1,1-Dichloroethane	20	21.6	ug/Kg	108			76	125	
	2-Butanone	100	100	ug/Kg	100			51	148	
	Carbon Tetrachloride	20	20.1	ug/Kg	101			70	135	
	cis-1,2-Dichloroethene	20	21.8	ug/Kg	109			77	123	
	Chloroform	20	21.7	ug/Kg	109			78	123	
	1,1,1-Trichloroethane	20	21.4	ug/Kg	107			73	130	
	Methylcyclohexane	20	19.9	ug/Kg	100			66	133	
	Benzene	20	20.9	ug/Kg	104			77	121	
	1,2-Dichloroethane	20	20.9	ug/Kg	104			73	128	
	Trichloroethene	20	20.2	ug/Kg	101			77	123	
	1,2-Dichloropropane	20	20.9	ug/Kg	104			76	123	
	Bromodichloromethane	20	20.7	ug/Kg	104			75	127	
	4-Methyl-2-Pentanone	100	99.2	ug/Kg	99			65	135	
	Toluene	20	20.6	ug/Kg	103			77	121	
	t-1,3-Dichloropropene	20	20.1	ug/Kg	101			71	130	
	cis-1,3-Dichloropropene	20	20.3	ug/Kg	102			74	126	
	1,1,2-Trichloroethane	20	20.7	ug/Kg	104			78	121	
	2-Hexanone	100	97.5	ug/Kg	98			53	145	
	Dibromochloromethane	20	20.7	ug/Kg	104			74	126	
	Tetrachloroethene	20	19.9	ug/Kg	100			73	128	
	Chlorobenzene	20	20.3	ug/Kg	102			79	120	
	Ethyl Benzene	20	19.7	ug/Kg	99			76	122	
	m/p-Xylenes	40	39.3	ug/Kg	98			77	124	
	o-Xylene	20	19.8	ug/Kg	99			77	123	
	Styrene	20	20.0	ug/Kg	100			76	124	
	Bromoform	20	20.0	ug/Kg	100			67	132	
	Isopropylbenzene	20	20.4	ug/Kg	102			68	134	
	1,1,2,2-Tetrachloroethane	20	20.6	ug/Kg	103			70	124	
	1,3-Dichlorobenzene	20	19.7	ug/Kg	99			77	121	
	1,4-Dichlorobenzene	20	20.5	ug/Kg	103			75	120	
	1,2-Dichlorobenzene	20	20.7	ug/Kg	104			78	121	

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX0523WBL01

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2118 SAS No.: Q2118 SDG NO.: Q2118

Lab File ID: VX046333.D Lab Sample ID: VX0523WBL01

Date Analyzed: 05/23/2025 Time Analyzed: 10:16

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

Instrument ID: MSVOA_X

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VX0523WBS01	VX0523WBS01	VX046334.D	05/23/2025
VX0523WBSD01	VX0523WBSD01	VX046337.D	05/23/2025
BP-VPB-182-TB-20250520	Q2118-01	VX046340.D	05/23/2025
BP-VPB-182-GW-460-462	Q2118-05	VX046341.D	05/23/2025
BP-VPB-182-GW-420-422	Q2118-02	VX046342.D	05/23/2025
BP-VPB-182-GW-450-452	Q2118-03	VX046343.D	05/23/2025
BP-VPB-182-DUP-20250520	Q2118-04	VX046344.D	05/23/2025
BP-VPB-182-GW-480-482	Q2118-06	VX046345.D	05/23/2025
BP-VPB-182-GW-520-522	Q2118-08	VX046346.D	05/23/2025
BP-VPB-182-GW-540-542	Q2118-09	VX046347.D	05/23/2025
BP-VPB-182-GW-560-562	Q2118-10	VX046348.D	05/23/2025

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY0523SBL01

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2118 SAS No.: Q2118 SDG NO.: Q2118

Lab File ID: VY022408.D Lab Sample ID: VY0523SBL01

Date Analyzed: 05/23/2025 Time Analyzed: 15:26

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

Instrument ID: MSVOA_Y

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VY0523SBS01	VY0523SBS01	VY022409.D	05/23/2025
VY0523SBSD01	VY0523SBSD01	VY022410.D	05/23/2025
BP-VPB-182-GW-500-502	Q2118-11	VY022411.D	05/23/2025

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY0527SBL01

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2118 SAS No.: Q2118 SDG NO.: Q2118

Lab File ID: VY022429.D Lab Sample ID: VY0527SBL01

Date Analyzed: 05/27/2025 Time Analyzed: 13:12

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

Instrument ID: MSVOA_Y

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VY0527SBS01	VY0527SBS01	VY022430.D	05/27/2025
BP-VPB-182-GW-500-502RE	Q2118-11RE	VY022432.D	05/27/2025

COMMENTS:

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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2118 SAS No.: Q2118 SDG NO.: Q2118

Lab File ID: VX046038.D BFB Injection Date: 05/05/2025

Instrument ID: MSVOA_X BFB Injection Time: 09:37

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.1
75	30.0 - 60.0% of mass 95	56.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.5 (0.7) 1
174	50.0 - 100.0% of mass 95	68.8
175	5.0 - 9.0% of mass 174	5 (7.3) 1
176	95.0 - 101.0% of mass 174	66.7 (97) 1
177	5.0 - 9.0% of mass 176	4.6 (6.9) 2

1-Value is % mass 174 2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC020	VSTDICC020	VX046041.D	05/05/2025	11:35
VSTDICCC050	VSTDICCC050	VX046042.D	05/05/2025	11:58
VSTDICC100	VSTDICC100	VX046043.D	05/05/2025	12:21
VSTDICC150	VSTDICC150	VX046044.D	05/05/2025	12:45
VSTDICC005	VSTDICC005	VX046046.D	05/05/2025	16:04
VSTDICC001	VSTDICC001	VX046047.D	05/05/2025	16:27

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2118 SAS No.: Q2118 SDG NO.: Q2118

Lab File ID: VX046330.D BFB Injection Date: 05/23/2025

Instrument ID: MSVOA_X BFB Injection Time: 08:25

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22
75	30.0 - 60.0% of mass 95	56.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.8 (1.2) 1
174	50.0 - 100.0% of mass 95	66.8
175	5.0 - 9.0% of mass 174	4.6 (6.9) 1
176	95.0 - 101.0% of mass 174	64 (95.9) 1
177	5.0 - 9.0% of mass 176	4.1 (6.4) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VX046331.D	05/23/2025	09:24
VX0523WBL01	VX0523WBL01	VX046333.D	05/23/2025	10:16
VX0523WBS01	VX0523WBS01	VX046334.D	05/23/2025	10:57
VX0523WBSD01	VX0523WBSD01	VX046337.D	05/23/2025	12:10
BP-VPB-182-TB-20250520	Q2118-01	VX046340.D	05/23/2025	13:20
BP-VPB-182-GW-460-462	Q2118-05	VX046341.D	05/23/2025	13:43
BP-VPB-182-GW-420-422	Q2118-02	VX046342.D	05/23/2025	14:06
BP-VPB-182-GW-450-452	Q2118-03	VX046343.D	05/23/2025	14:29
BP-VPB-182-DUP-20250520	Q2118-04	VX046344.D	05/23/2025	14:53
BP-VPB-182-GW-480-482	Q2118-06	VX046345.D	05/23/2025	15:16
BP-VPB-182-GW-520-522	Q2118-08	VX046346.D	05/23/2025	15:39
BP-VPB-182-GW-540-542	Q2118-09	VX046347.D	05/23/2025	16:03
BP-VPB-182-GW-560-562	Q2118-10	VX046348.D	05/23/2025	16:26
VSTDCCC050EC	VSTDCCC050	VX046357.D	05/23/2025	19:55

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2118 SAS No.: Q2118 SDG NO.: Q2118

Lab File ID: VY022252.D BFB Injection Date: 05/15/2025

Instrument ID: MSVOA_Y BFB Injection Time: 07:52

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	24
75	30.0 - 60.0% of mass 95	55.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.7 (0.9) 1
174	50.0 - 100.0% of mass 95	80.5
175	5.0 - 9.0% of mass 174	5.9 (7.3) 1
176	95.0 - 101.0% of mass 174	77.5 (96.3) 1
177	5.0 - 9.0% of mass 176	5.3 (6.8) 2

1-Value is % mass 174 2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC005	VSTDICC005	VY022253.D	05/15/2025	09:46
VSTDICC010	VSTDICC010	VY022254.D	05/15/2025	10:16
VSTDICC020	VSTDICC020	VY022255.D	05/15/2025	10:39
VSTDICCC050	VSTDICCC050	VY022256.D	05/15/2025	11:02
VSTDICC100	VSTDICC100	VY022257.D	05/15/2025	11:24
VSTDICC150	VSTDICC150	VY022258.D	05/15/2025	11:47

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2118 SAS No.: Q2118 SDG NO.: Q2118

Lab File ID: VY022406.D BFB Injection Date: 05/23/2025

Instrument ID: MSVOA_Y BFB Injection Time: 11:40

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.6
75	30.0 - 60.0% of mass 95	58.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	1 (1.2) 1
174	50.0 - 100.0% of mass 95	89
175	5.0 - 9.0% of mass 174	6.7 (7.6) 1
176	95.0 - 101.0% of mass 174	86.3 (97) 1
177	5.0 - 9.0% of mass 176	5.7 (6.6) 2

1-Value is % mass 174 2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VY022407.D	05/23/2025	14:34
VY0523SBL01	VY0523SBL01	VY022408.D	05/23/2025	15:26
VY0523SBS01	VY0523SBS01	VY022409.D	05/23/2025	16:28
VY0523SBSD01	VY0523SBSD01	VY022410.D	05/23/2025	16:50
BP-VPB-182-GW-500-502	Q2118-11	VY022411.D	05/23/2025	17:14
VSTDCCC050EC	VSTDCCC050	VY022419.D	05/23/2025	21:05

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2118 SAS No.: Q2118 SDG NO.: Q2118

Lab File ID: VY022420.D BFB Injection Date: 05/27/2025

Instrument ID: MSVOA_Y BFB Injection Time: 08:20

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.8
75	30.0 - 60.0% of mass 95	58.1
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	1.1 (1.2) 1
174	50.0 - 100.0% of mass 95	88.8
175	5.0 - 9.0% of mass 174	6.7 (7.6) 1
176	95.0 - 101.0% of mass 174	85.7 (96.4) 1
177	5.0 - 9.0% of mass 176	5.5 (6.5) 2

1-Value is % mass 174 2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC005	VSTDICC005	VY022421.D	05/27/2025	08:50
VSTDICC010	VSTDICC010	VY022422.D	05/27/2025	09:14
VSTDICC020	VSTDICC020	VY022423.D	05/27/2025	09:36
VSTDICCC050	VSTDICCC050	VY022424.D	05/27/2025	09:59
VSTDICC100	VSTDICC100	VY022425.D	05/27/2025	10:22
VSTDICC150	VSTDICC150	VY022426.D	05/27/2025	10:44
VY0527SBL01	VY0527SBL01	VY022429.D	05/27/2025	13:12
VY0527SBS01	VY0527SBS01	VY022430.D	05/27/2025	13:35
BP-VPB-182-GW-500-502RE	Q2118-11RE	VY022432.D	05/27/2025	14:27
VSTDCCC050EC	VSTDCCC050	VY022438.D	05/27/2025	17:10

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2118 SAS No.: Q2118 SDG NO.: Q2118

Lab File ID: VX046331.D Date Analyzed: 05/23/2025

Instrument ID: MSVOA_X Time Analyzed: 09:24

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

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	89943	5.54	154938	6.76	137123	10.05
UPPER LIMIT	179886	6.044	309876	7.257	274246	10.549
LOWER LIMIT	44971.5	5.044	77469	6.257	68561.5	9.549
EPA SAMPLE NO.						
BP-VPB-182-TB-20250520	67136	5.55	131396	6.76	125098	10.05
BP-VPB-182-GW-420-422	66286	5.55	129308	6.76	121023	10.05
BP-VPB-182-GW-450-452	61687	5.54	122489	6.76	115391	10.05
BP-VPB-182-DUP-20250520	62715	5.54	124739	6.76	116065	10.05
BP-VPB-182-GW-460-462	66245	5.55	133836	6.76	126415	10.05
BP-VPB-182-GW-480-482	69269	5.55	136686	6.76	129107	10.05
BP-VPB-182-GW-520-522	67340	5.55	134921	6.76	127330	10.05
BP-VPB-182-GW-540-542	64643	5.55	127425	6.76	122773	10.05
BP-VPB-182-GW-560-562	63741	5.55	127709	6.76	120561	10.05
VX0523WBL01	69169	5.55	136383	6.76	129888	10.05
VX0523WBS01	88801	5.54	154286	6.75	135355	10.05
VX0523WBSD01	88781	5.55	156018	6.76	138561	10.05

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

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

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

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2118 SAS No.: Q2118 SDG NO.: Q2118

Lab File ID: VX046331.D Date Analyzed: 05/23/2025

Instrument ID: MSVOA_X Time Analyzed: 09:24

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

	IS4 AREA #	RT #				
12 HOUR STD	66629	12.018				
UPPER LIMIT	133258	12.518				
LOWER LIMIT	33314.5	11.518				
EPA SAMPLE NO.						
BP-VPB-182-TB-20250520	55490	12.02				
BP-VPB-182-GW-420-422	49690	12.02				
BP-VPB-182-GW-450-452	49143	12.02				
BP-VPB-182-DUP-20250520	47836	12.02				
BP-VPB-182-GW-460-462	54701	12.02				
BP-VPB-182-GW-480-482	55196	12.02				
BP-VPB-182-GW-520-522	52504	12.02				
BP-VPB-182-GW-540-542	53639	12.02				
BP-VPB-182-GW-560-562	49123	12.02				
VX0523WBL01	57102	12.02				
VX0523WBS01	65596	12.02				
VX0523WBSD01	64515	12.02				

IS4 = 1,4-Dichlorobenzene-d4

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

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

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2118 SAS No.: Q2118 SDG NO.: Q2118

Lab File ID: VY022407.D Date Analyzed: 05/23/2025

Instrument ID: MSVOA_Y Time Analyzed: 14:34

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	221240	7.72	368290	8.62	319713	11.42
UPPER LIMIT	442480	8.219	736580	9.122	639426	11.92
LOWER LIMIT	110620	7.219	184145	8.122	159857	10.92
EPA SAMPLE NO.						
BP-VPB-182-GW-500-502	313111	7.71	554352	8.62	441958	11.42
VY0523SBL01	328707	7.71	590839	8.62	465211	11.42
VY0523SBS01	220484	7.71	365163	8.62	306453	11.42
VY0523SBSD01	215942	7.71	364015	8.62	310108	11.42

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

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

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

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2118 SAS No.: Q2118 SDG NO.: Q2118

Lab File ID: VY022407.D Date Analyzed: 05/23/2025

Instrument ID: MSVOA_Y Time Analyzed: 14:34

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT #				
12 HOUR STD	156128	13.352				
UPPER LIMIT	312256	13.852				
LOWER LIMIT	78064	12.852				
EPA SAMPLE NO.						
BP-VPB-182-GW-500-502	152683	13.35				
VY0523SBL01	167300	13.35				
VY0523SBS01	141917	13.35				
VY0523SBSD01	143885	13.35				

IS4 = 1,4-Dichlorobenzene-d4

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

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

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2118 SAS No.: Q2118 SDG NO.: Q2118

Lab File ID: VY022424.D Date Analyzed: 05/27/2025

Instrument ID: MSVOA_Y Time Analyzed: 09:59

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	251462	7.71	421648	8.62	359387	11.42
UPPER LIMIT	502924	8.213	843296	9.116	718774	11.92
LOWER LIMIT	125731	7.213	210824	8.116	179694	10.92
EPA SAMPLE NO.						
BP-VPB-182-GW-500-502RE	322318	7.71	572594	8.62	436021	11.41
VY0527SBL01	351784	7.71	631221	8.62	510103	11.41
VY0527SBS01	230468	7.71	399143	8.62	340460	11.41

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

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

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

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2118 SAS No.: Q2118 SDG NO.: Q2118

Lab File ID: VY022424.D Date Analyzed: 05/27/2025

Instrument ID: MSVOA_Y Time Analyzed: 09:59

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT #				
12 HOUR STD	170568	13.346				
UPPER LIMIT	341136	13.846				
LOWER LIMIT	85284	12.846				
EPA SAMPLE NO.						
BP-VPB-182-GW-500-502RE	136693	13.35				
VY0527SBL01	193960	13.35				
VY0527SBS01	155764	13.35				

IS4 = 1,4-Dichlorobenzene-d4

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

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

SAMPLE DATA

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

Client:	Tetra Tech NUS, Inc.	Date Collected:	05/20/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/22/25
Client Sample ID:	BP-VPB-182-TB-20250520	SDG No.:	Q2118
Lab Sample ID:	Q2118-01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046340.D	1		05/23/25 13:20	VX052325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.23	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.19	0.75	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	05/20/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/22/25
Client Sample ID:	BP-VPB-182-TB-20250520	SDG No.:	Q2118
Lab Sample ID:	Q2118-01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046340.D	1		05/23/25 13:20	VX052325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	53.0		81 - 118		106%	SPK: 50
1868-53-7	Dibromofluoromethane	50.2		80 - 119		100%	SPK: 50
2037-26-5	Toluene-d8	50.4		89 - 112		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.9		85 - 114		106%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	67100	5.549				
540-36-3	1,4-Difluorobenzene	131000	6.757				
3114-55-4	Chlorobenzene-d5	125000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	55500	12.018				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D					

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Fax : 908 789 8922

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	05/20/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/22/25
Client Sample ID:	BP-VPB-182-TB-20250520	SDG No.:	Q2118
Lab Sample ID:	Q2118-01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046340.D	1		05/23/25 13:20	VX052325

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

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046340.D
Acq On : 23 May 2025 13:20
Operator : JC/MD
Sample : Q2118-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-TB-20250520

Quant Time: May 23 23:01:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

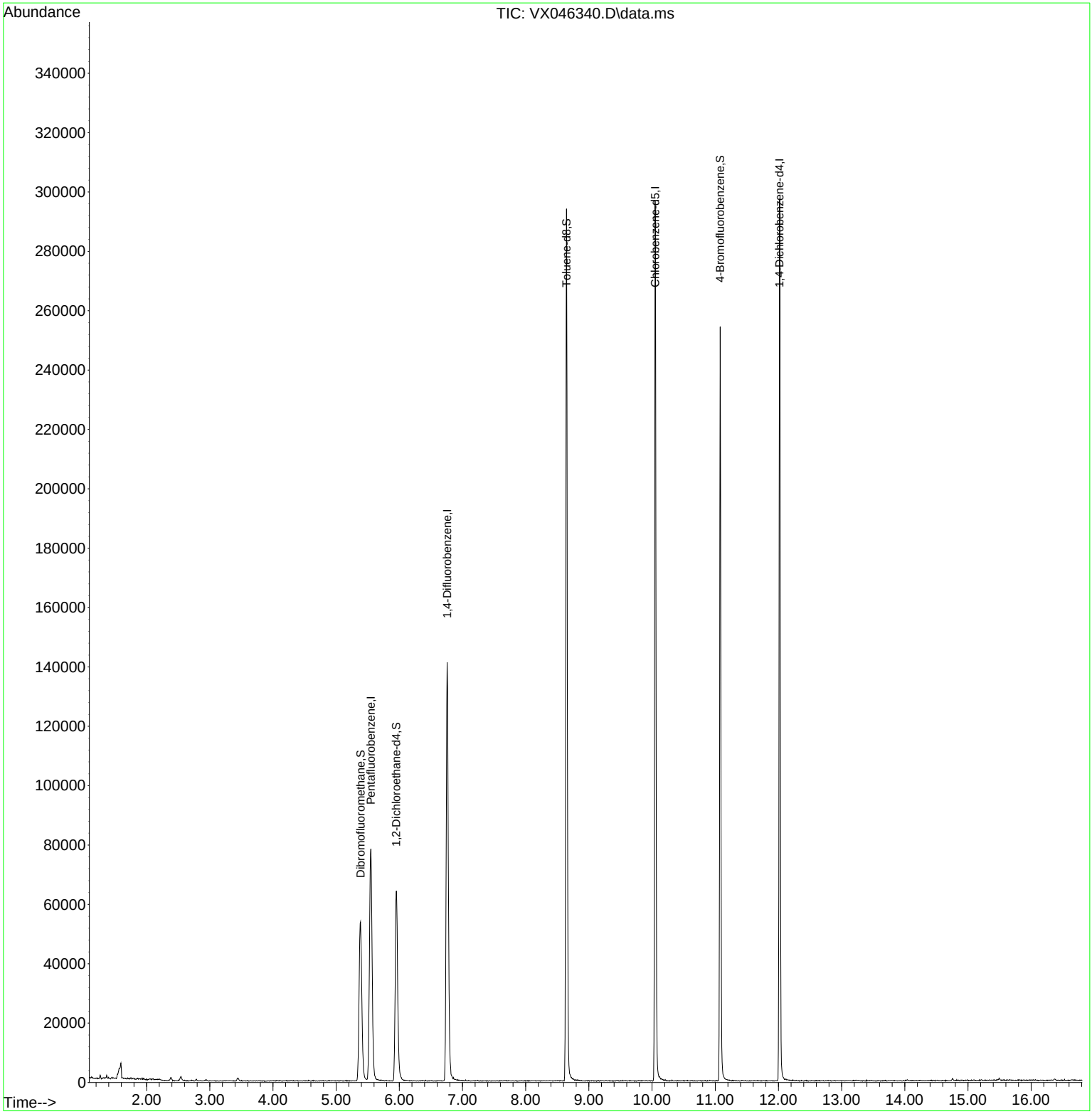
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.549	168	67136	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	131396	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	125098	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	55490	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	66323	52.989	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 105.980%			
35) Dibromofluoromethane	5.385	113	47527	50.230	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.460%			
50) Toluene-d8	8.646	98	164992	50.381	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.760%			
62) 4-Bromofluorobenzene	11.079	95	66468	52.912	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 105.820%			
Target Compounds						Qvalue

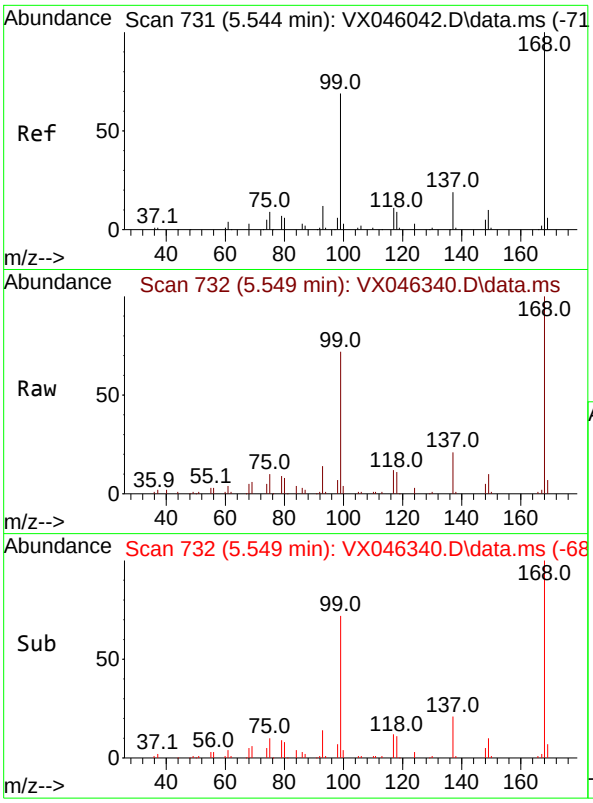
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046340.D
Acq On : 23 May 2025 13:20
Operator : JC/MD
Sample : Q2118-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-TB-20250520

Quant Time: May 23 23:01:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration



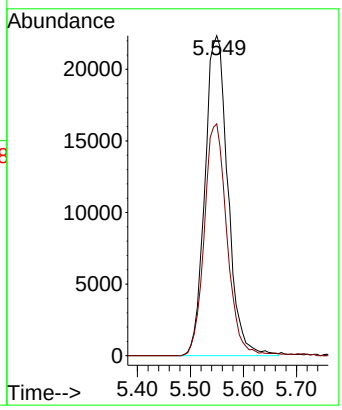


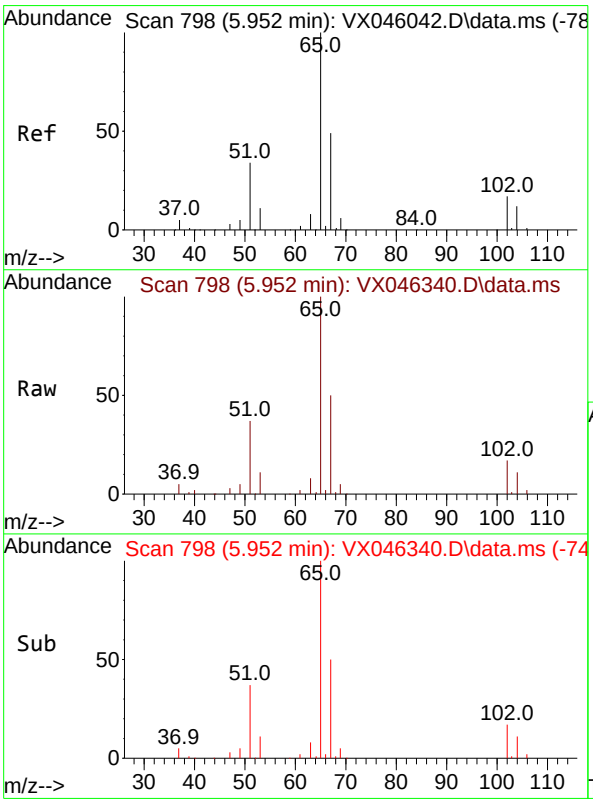
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.549 min Scan# 7
Delta R.T. 0.005 min
Lab File: VX046340.D
Acq: 23 May 2025 13:20

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-TB-20250520

Tgt Ion:168 Resp: 67136

Ion	Ratio	Lower	Upper
168	100		
99	72.5	54.9	82.3

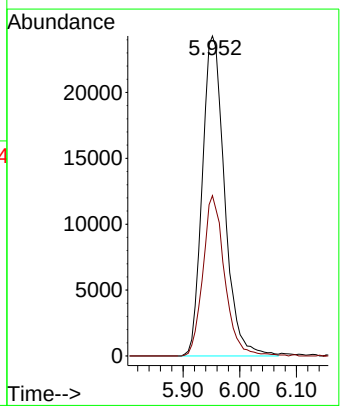


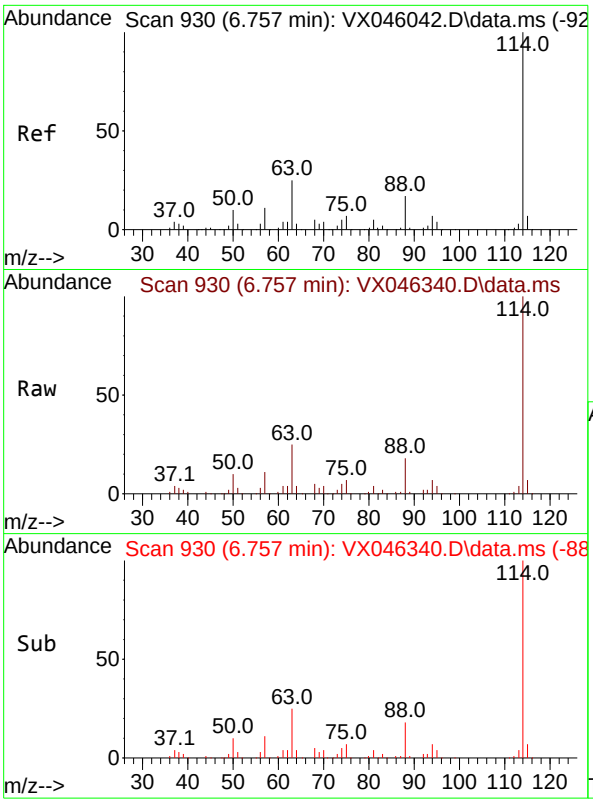


#33
1,2-Dichloroethane-d4
Concen: 52.989 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.000 min
Lab File: VX046340.D
Acq: 23 May 2025 13:20

Tgt Ion: 65 Resp: 66323

Ion	Ratio	Lower	Upper
65	100		
67	48.8	0.0	99.0



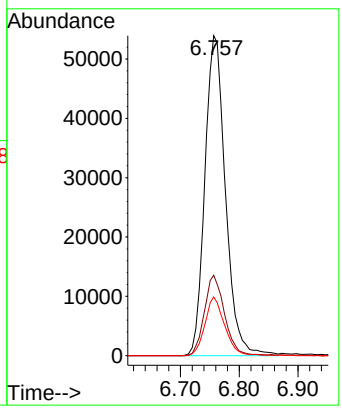


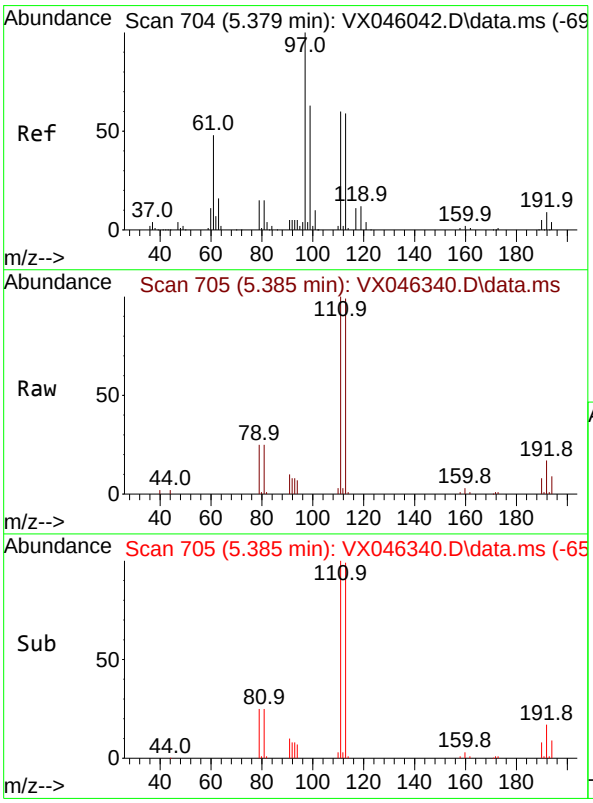
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX046340.D
Acq: 23 May 2025 13:20

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-TB-20250520

Tgt Ion:114 Resp: 131396

Ion	Ratio	Lower	Upper
114	100		
63	25.1	0.0	49.2
88	18.4	0.0	33.6

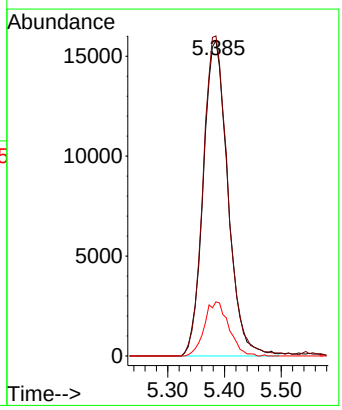


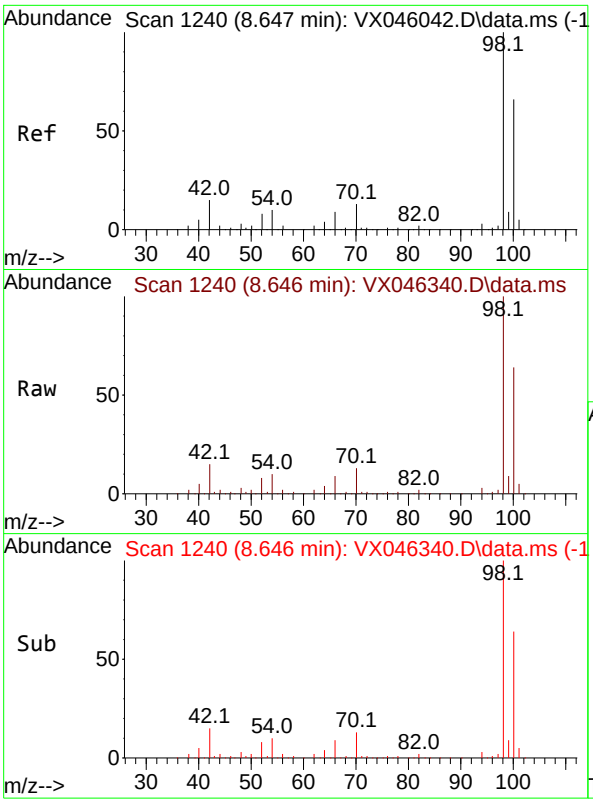


#35
Dibromofluoromethane
Concen: 50.230 ug/l
RT: 5.385 min Scan# 705
Delta R.T. 0.006 min
Lab File: VX046340.D
Acq: 23 May 2025 13:20

Tgt Ion:113 Resp: 47527

Ion	Ratio	Lower	Upper
113	100		
111	101.9	83.1	124.7
192	17.0	13.3	19.9



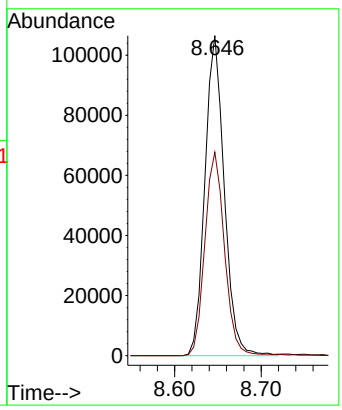


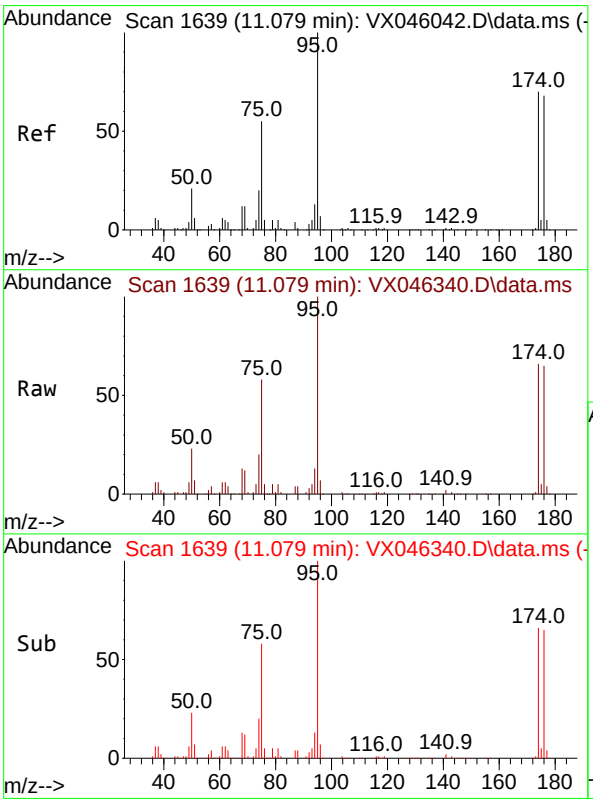
#50
Toluene-d8
Concen: 50.381 ug/l
RT: 8.646 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046340.D
Acq: 23 May 2025 13:20

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-TB-20250520

Tgt Ion: 98 Resp: 164992

Ion	Ratio	Lower	Upper
98	100		
100	64.9	53.5	80.3

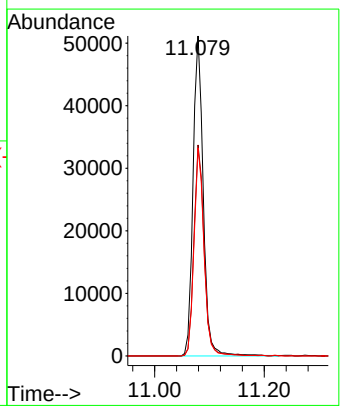


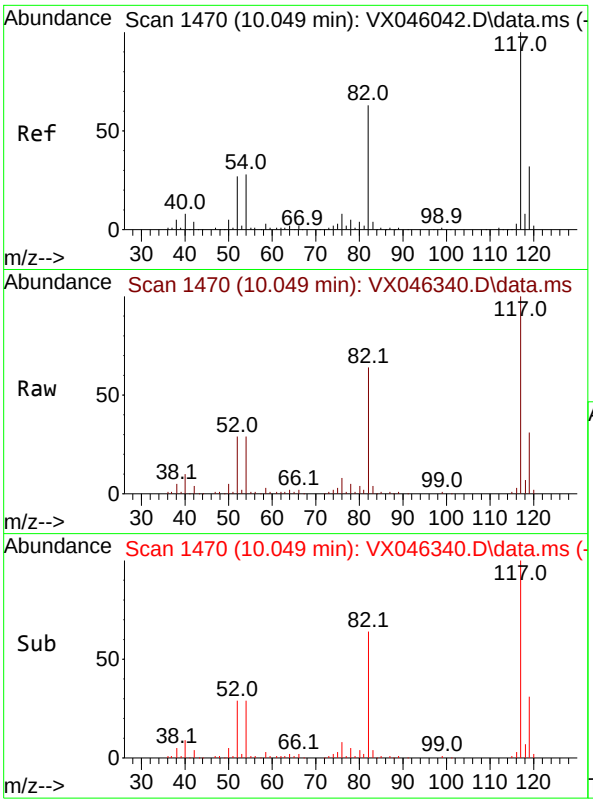


#62
4-Bromofluorobenzene
Concen: 52.912 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX046340.D
Acq: 23 May 2025 13:20

Tgt Ion: 95 Resp: 66468

Ion	Ratio	Lower	Upper
95	100		
174	66.0	0.0	135.8
176	63.6	0.0	131.4



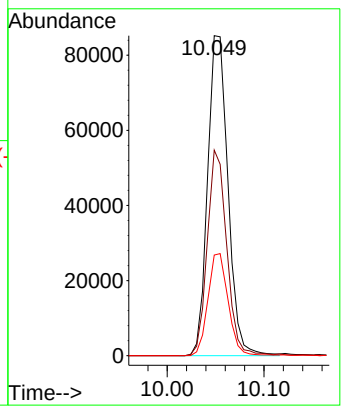


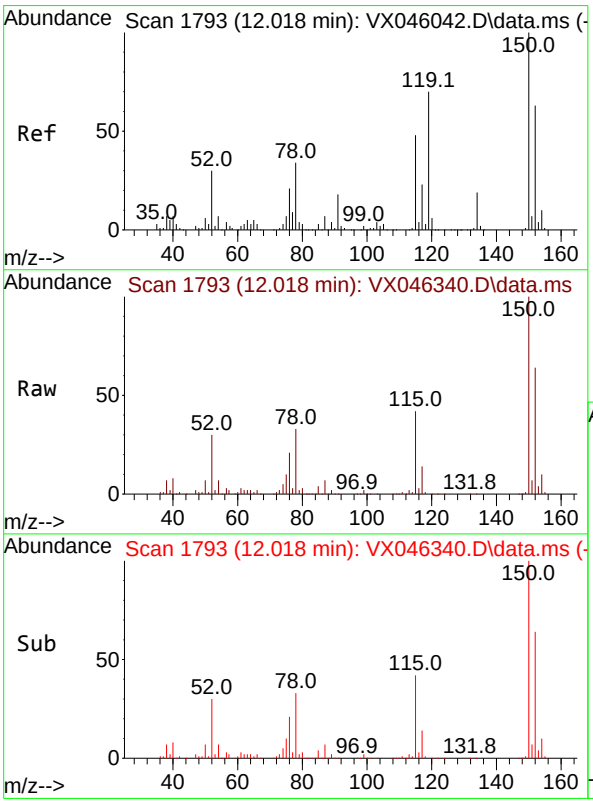
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX046340.D
Acq: 23 May 2025 13:20

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-TB-20250520

Tgt Ion:117 Resp: 125098

Ion	Ratio	Lower	Upper
117	100		
82	64.3	50.6	76.0
119	31.5	25.8	38.6

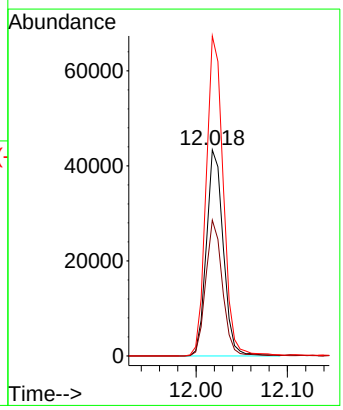




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX046340.D
Acq: 23 May 2025 13:20

Tgt Ion:152 Resp: 55490

Ion	Ratio	Lower	Upper
152	100		
115	65.1	46.9	140.7
150	157.3	0.0	351.0



Sample Results: **VX046340.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046340.D
Acq On : 23 May 2025 13:20
Operator : JC/MD
Sample : Q2118-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-TB-20250520

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Title : SW846 8260

Signal : TIC: VX046340.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.568	71	79	80	rBV3	3545	7171	1.55%	0.287%
2	1.593	80	83	85	rVB2	4941	5960	1.29%	0.239%
3	5.385	694	705	721	rBV2	53575	160571	34.64%	6.431%
4	5.549	722	732	746	rVV	77684	223454	48.20%	8.949%
5	5.952	788	798	817	rBV	64050	173612	37.45%	6.953%
6	6.757	922	930	945	rBV	140838	335857	72.45%	13.451%
7	8.646	1234	1240	1252	rBV	293789	463583	100.00%	18.566%
8	10.049	1465	1470	1480	rBV	296342	424965	91.67%	17.019%
9	11.079	1634	1639	1659	rBV	254028	323076	69.69%	12.939%
10	12.018	1788	1793	1806	rBV	297141	378689	81.69%	15.166%

Sum of corrected areas: 2496938

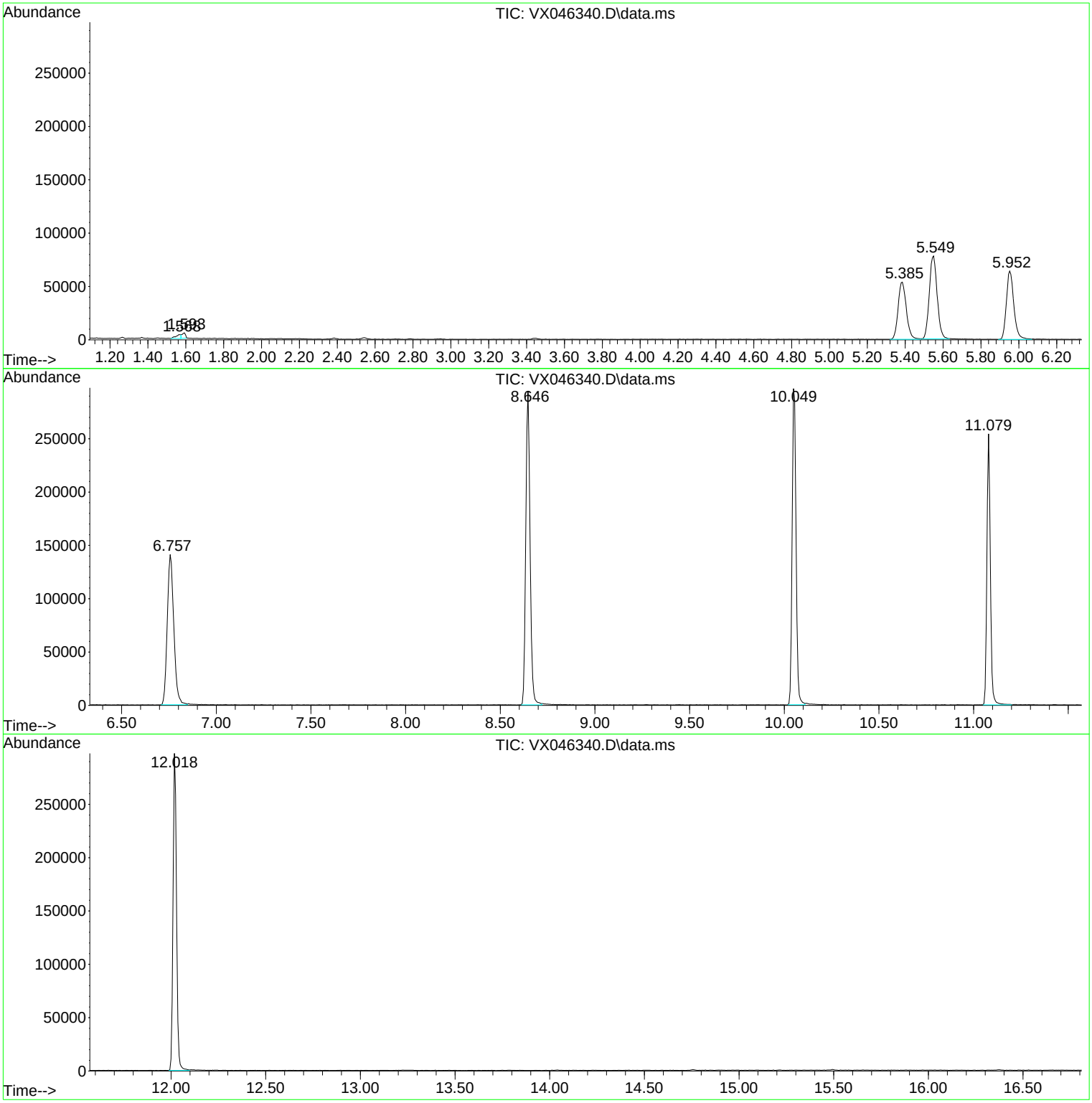
Sample Results: **VX046340.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046340.D
Acq On : 23 May 2025 13:20
Operator : JC/MD
Sample : Q2118-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-TB-20250520

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046340.D
Acq On : 23 May 2025 13:20
Operator : JC/MD
Sample : Q2118-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-TB-20250520

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046340.D
Acq On : 23 May 2025 13:20
Operator : JC/MD
Sample : Q2118-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-TB-20250520

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	05/20/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/22/25
Client Sample ID:	BP-VPB-182-GW-420-422	SDG No.:	Q2118
Lab Sample ID:	Q2118-02	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046342.D	1		05/23/25 14:06	VX052325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.23	0.75	1.00	ug/L
67-64-1	Acetone	2.70	J	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.36	J	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.19	0.75	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	05/20/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/22/25
Client Sample ID:	BP-VPB-182-GW-420-422	SDG No.:	Q2118
Lab Sample ID:	Q2118-02	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046342.D	1		05/23/25 14:06	VX052325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	52.7		81 - 118		105%	SPK: 50
1868-53-7	Dibromofluoromethane	50.5		80 - 119		101%	SPK: 50
2037-26-5	Toluene-d8	50.7		89 - 112		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.8		85 - 114		100%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	66300	5.55				
540-36-3	1,4-Difluorobenzene	129000	6.757				
3114-55-4	Chlorobenzene-d5	121000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	49700	12.018				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D					

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	05/20/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/22/25
Client Sample ID:	BP-VPB-182-GW-420-422	SDG No.:	Q2118
Lab Sample ID:	Q2118-02	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046342.D	1		05/23/25 14:06	VX052325

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

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046342.D
Acq On : 23 May 2025 14:06
Operator : JC/MD
Sample : Q2118-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-GW-420-422

Quant Time: May 23 23:02:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

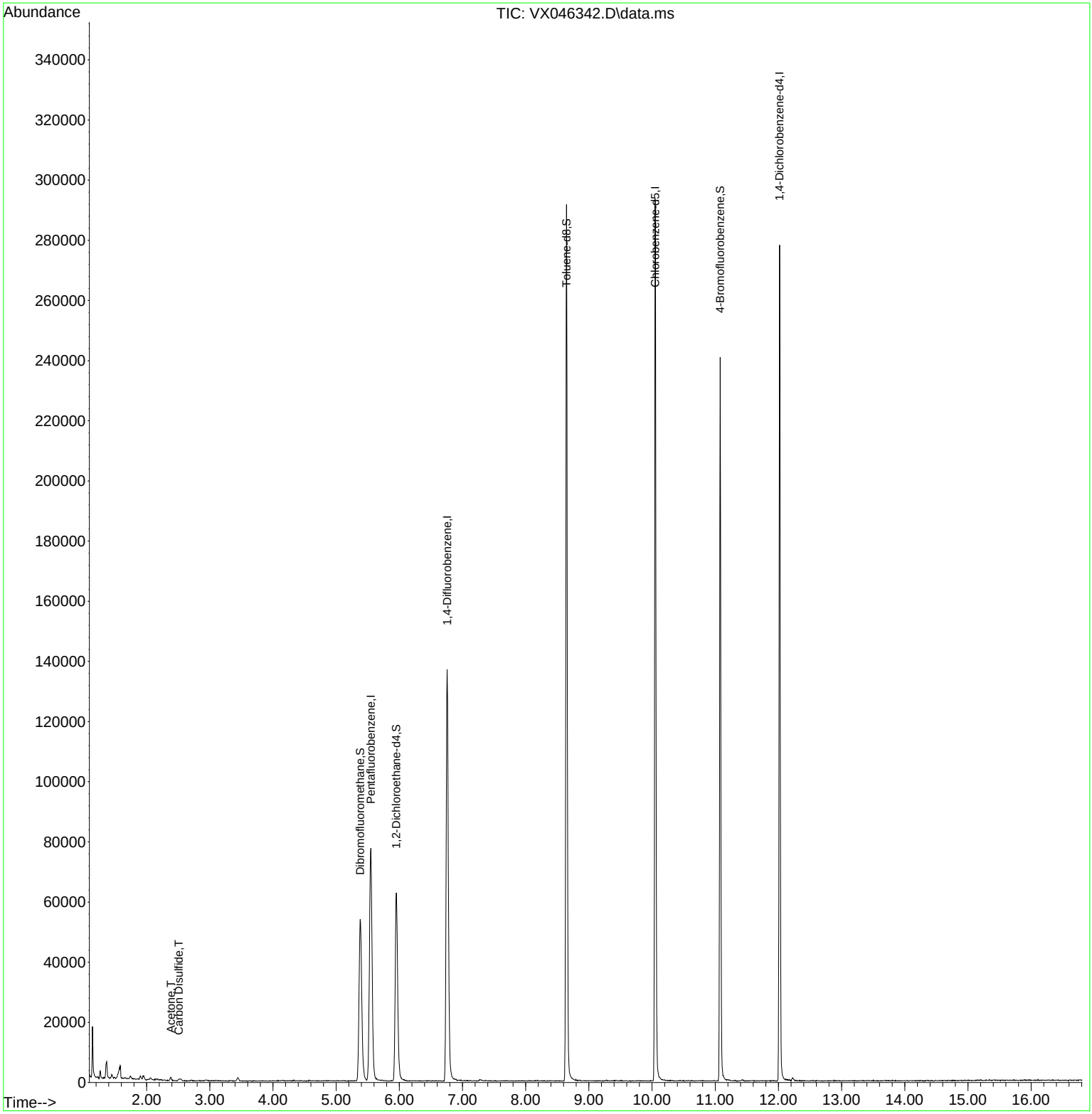
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	66286	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	129308	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	121023	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	49690	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	65112	52.689	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 105.380%			
35) Dibromofluoromethane	5.379	113	46984	50.458	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.920%			
50) Toluene-d8	8.647	98	163256	50.656	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.320%			
62) 4-Bromofluorobenzene	11.079	95	61565	49.800	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 99.600%			
Target Compounds						Qvalue
16) Acetone	2.386	43	1348	2.721	ug/l #	85
17) Carbon Disulfide	2.508	76	667	0.358	ug/l #	83

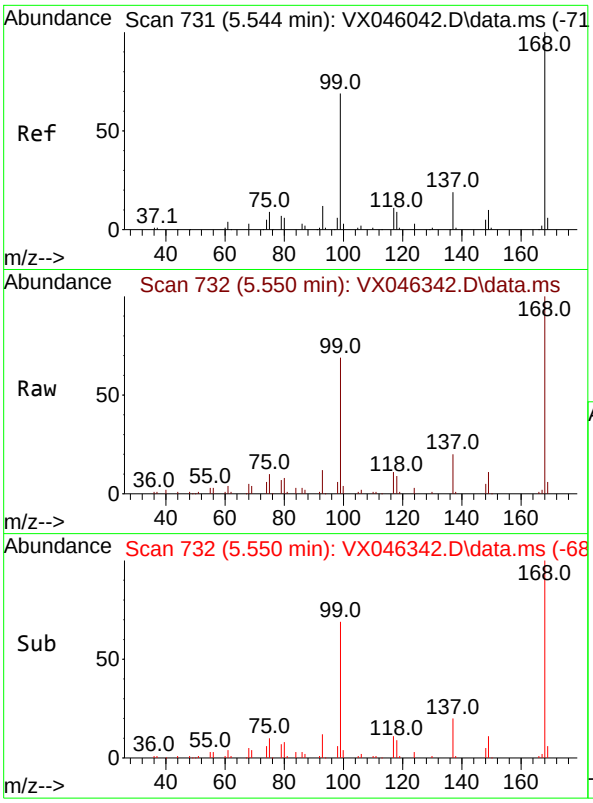
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046342.D
Acq On : 23 May 2025 14:06
Operator : JC/MD
Sample : Q2118-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-GW-420-422

Quant Time: May 23 23:02:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration



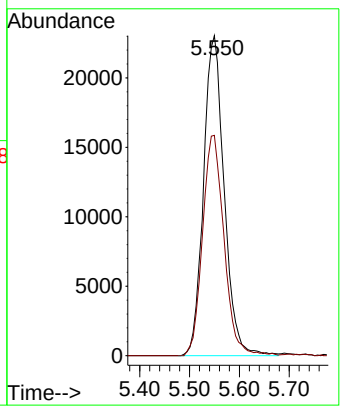


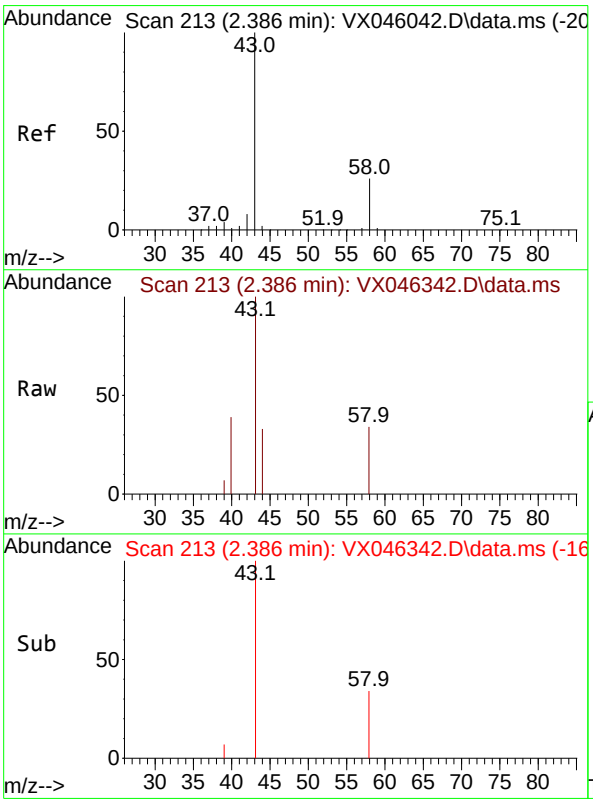
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX046342.D
Acq: 23 May 2025 14:06

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-GW-420-422

Tgt Ion:168 Resp: 66286

Ion	Ratio	Lower	Upper
168	100		
99	68.8	54.9	82.3

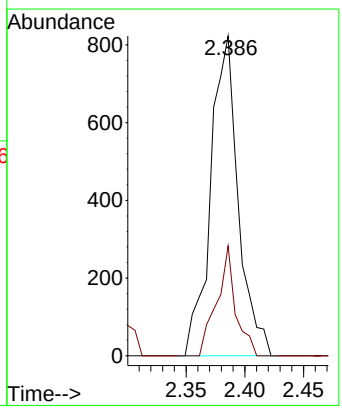


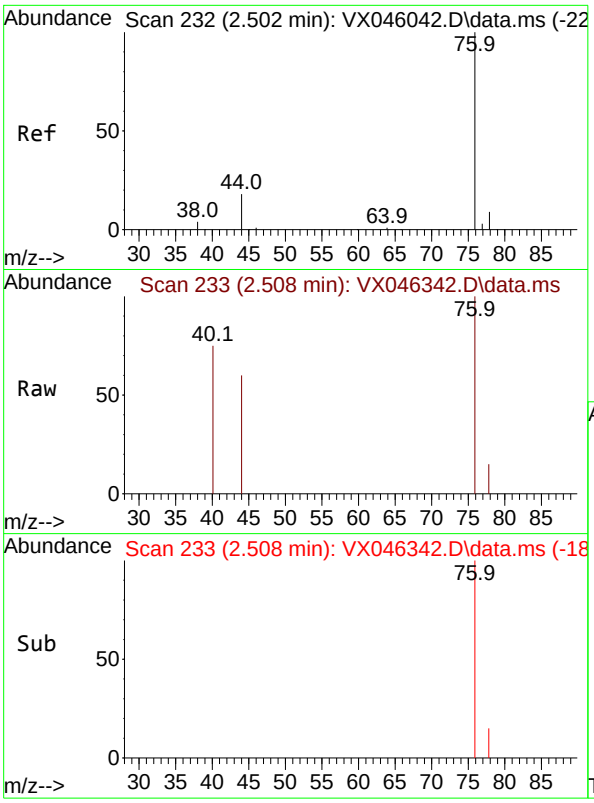


#16
Acetone
Concen: 2.721 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.000 min
Lab File: VX046342.D
Acq: 23 May 2025 14:06

Tgt Ion: 43 Resp: 1348

Ion	Ratio	Lower	Upper
43	100		
58	34.4	21.2	31.8#



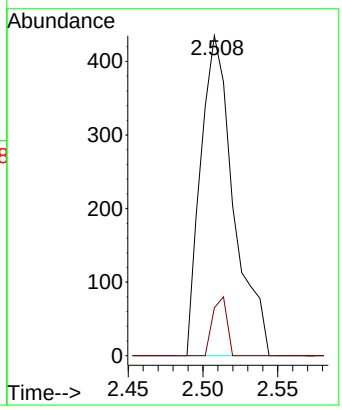


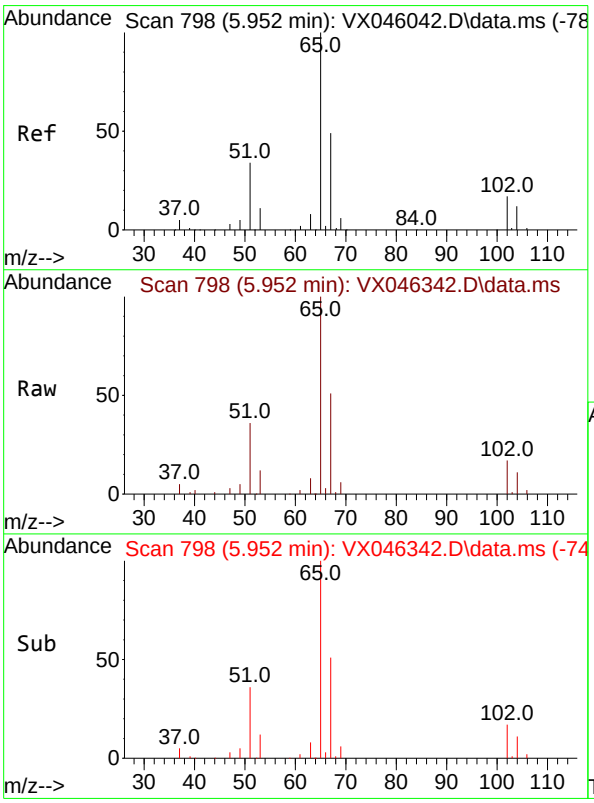
#17
Carbon Disulfide
Concen: 0.358 ug/l
RT: 2.508 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX046342.D
Acq: 23 May 2025 14:06

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-GW-420-422

Tgt Ion: 76 Resp: 667

Ion	Ratio	Lower	Upper
76	100		
78	14.9	7.0	10.4#

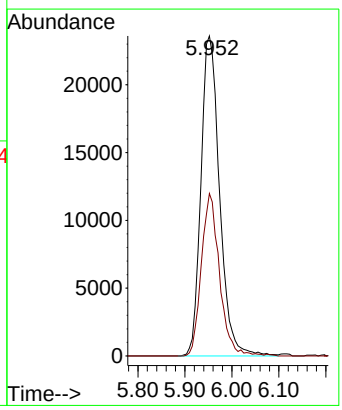


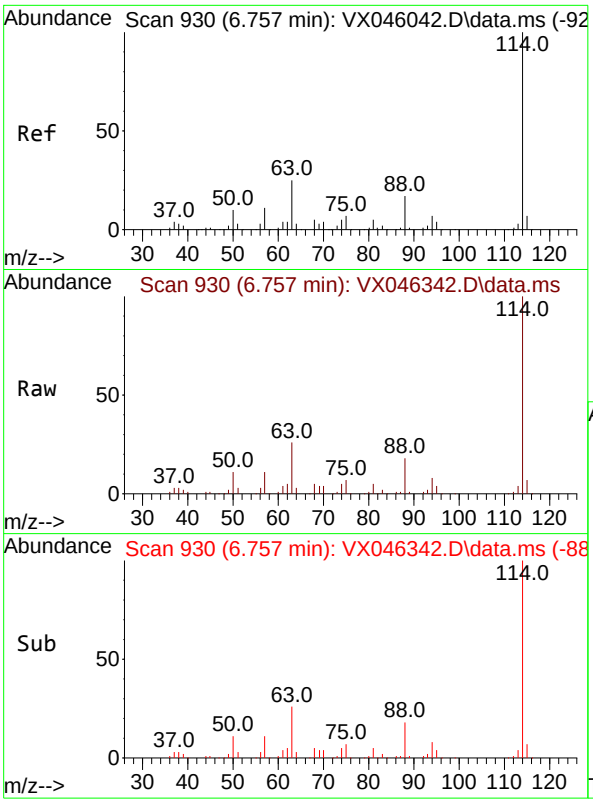


#33
1,2-Dichloroethane-d4
Concen: 52.689 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.000 min
Lab File: VX046342.D
Acq: 23 May 2025 14:06

Tgt Ion: 65 Resp: 65112

Ion	Ratio	Lower	Upper
65	100		
67	49.3	0.0	99.0



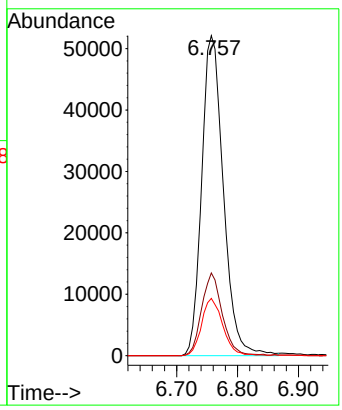


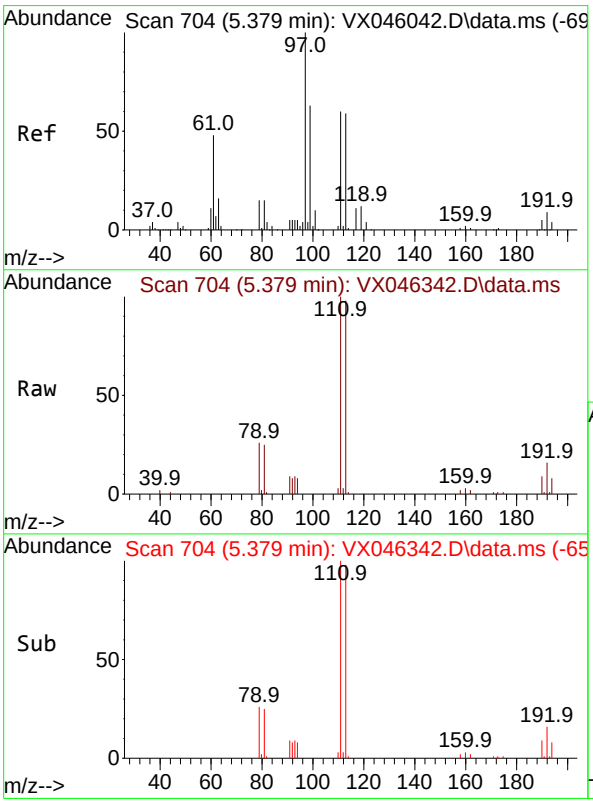
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX046342.D
Acq: 23 May 2025 14:06

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-GW-420-422

Tgt Ion:114 Resp: 129308

Ion	Ratio	Lower	Upper
114	100		
63	25.9	0.0	49.2
88	17.9	0.0	33.6

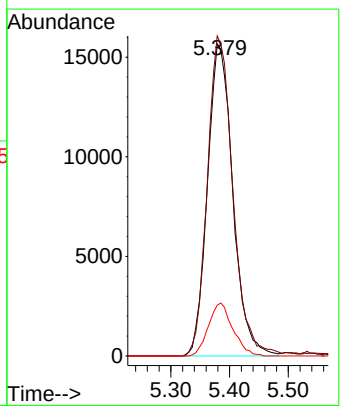


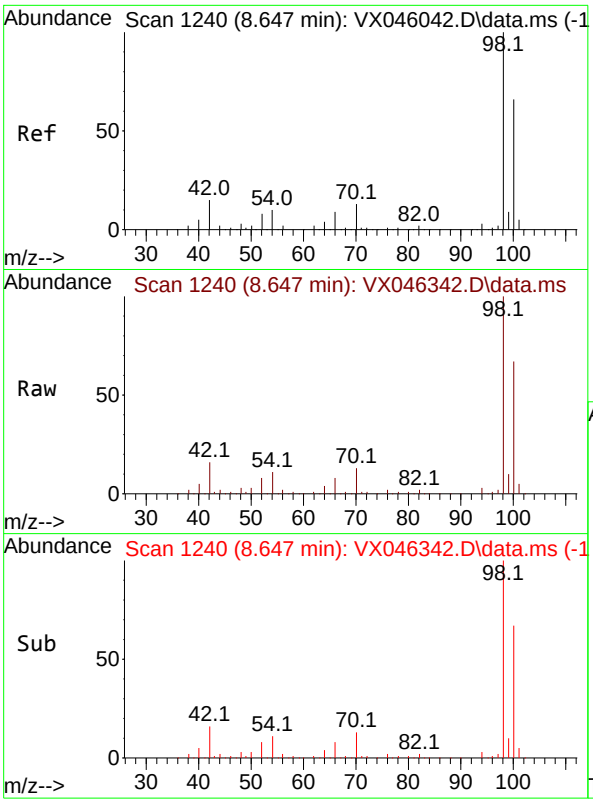


#35
Dibromofluoromethane
Concen: 50.458 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.000 min
Lab File: VX046342.D
Acq: 23 May 2025 14:06

Tgt Ion:113 Resp: 46984

Ion	Ratio	Lower	Upper
113	100		
111	103.2	83.1	124.7
192	16.3	13.3	19.9



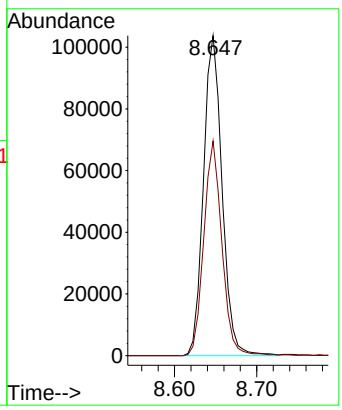


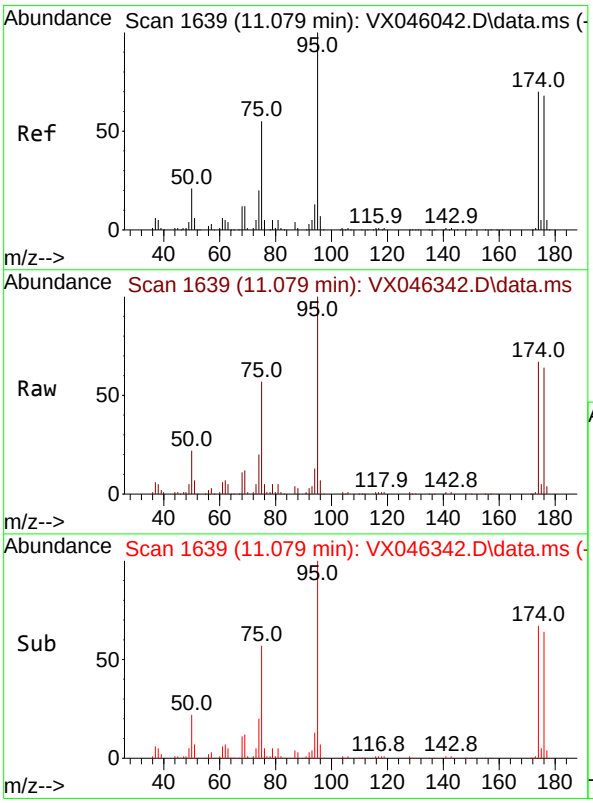
#50
Toluene-d8
Concen: 50.656 ug/l
RT: 8.647 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046342.D
Acq: 23 May 2025 14:06

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-GW-420-422

Tgt Ion: 98 Resp: 163256

Ion	Ratio	Lower	Upper
98	100		
100	65.3	53.5	80.3

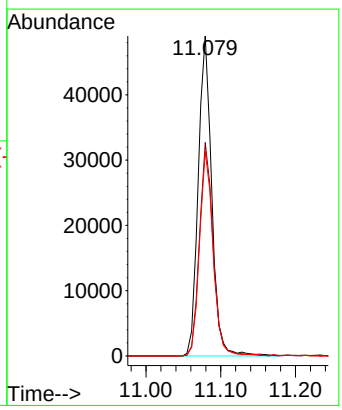


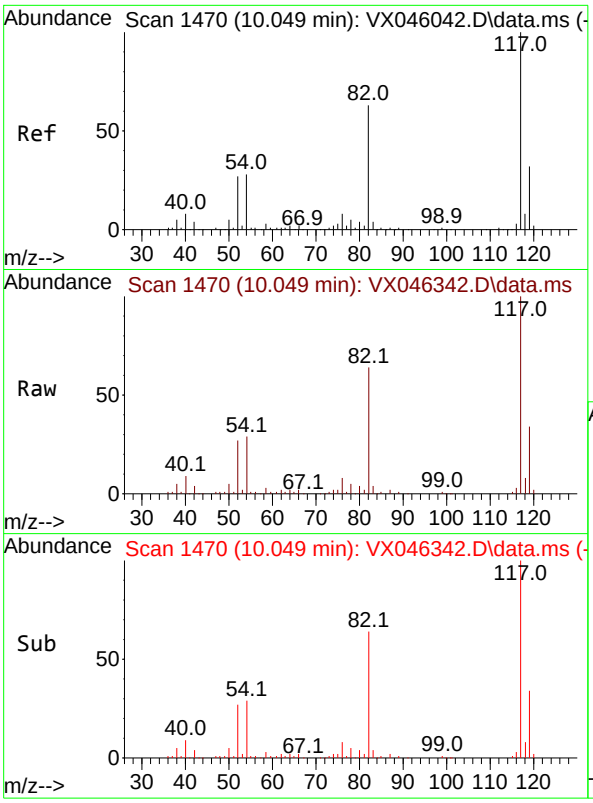


#62
4-Bromofluorobenzene
Concen: 49.800 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX046342.D
Acq: 23 May 2025 14:06

Tgt Ion: 95 Resp: 61565

Ion	Ratio	Lower	Upper
95	100		
174	67.4	0.0	135.8
176	64.4	0.0	131.4



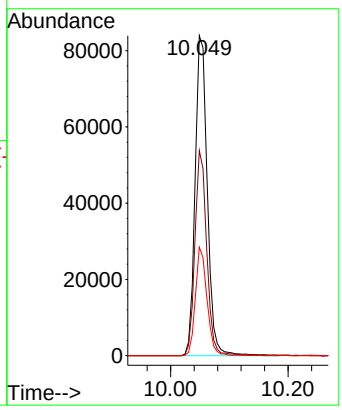


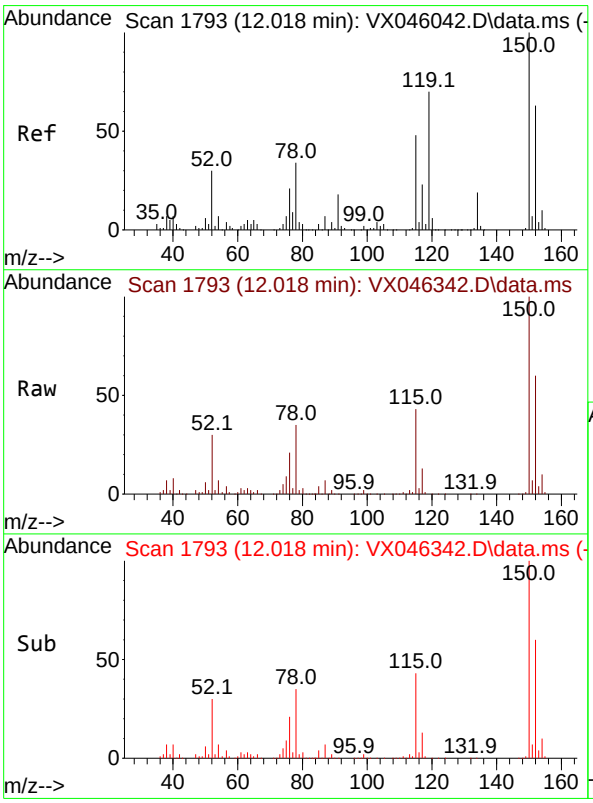
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX046342.D
Acq: 23 May 2025 14:06

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-GW-420-422

Tgt Ion:117 Resp: 121023

Ion	Ratio	Lower	Upper
117	100		
82	64.1	50.6	76.0
119	33.9	25.8	38.6

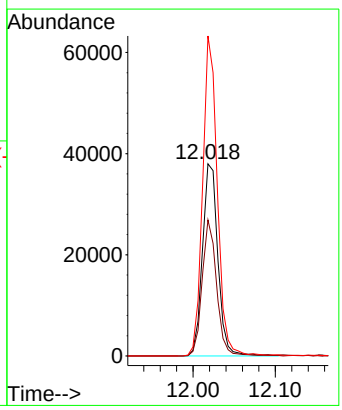




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX046342.D
Acq: 23 May 2025 14:06

Tgt Ion:152 Resp: 49690

Ion	Ratio	Lower	Upper
152	100		
115	66.3	46.9	140.7
150	158.6	0.0	351.0



Sample Results: **VX046342.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046342.D
Acq On : 23 May 2025 14:06
Operator : JC/MD
Sample : Q2118-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-GW-420-422

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Title : SW846 8260

Signal : TIC: VX046342.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.142	6	9	19	rVB	16959	16612	3.62%	0.682%
2	1.368	41	46	53	rVB3	5529	9151	1.99%	0.376%
3	1.581	69	81	85	rBV4	4357	9923	2.16%	0.407%
4	5.379	694	704	721	rBV	53703	159478	34.73%	6.549%
5	5.550	721	732	750	rVV	77170	221771	48.30%	9.106%
6	5.952	789	798	817	rBV	62417	167712	36.52%	6.887%
7	6.757	922	930	948	rBV	136927	333218	72.57%	13.683%
8	8.647	1234	1240	1253	rBV	291278	459173	100.00%	18.855%
9	10.049	1465	1470	1486	rBV	293202	414299	90.23%	17.012%
10	11.079	1634	1639	1653	rBV	240574	302888	65.96%	12.437%
11	12.018	1788	1793	1806	rBV	277819	341089	74.28%	14.006%

Sum of corrected areas: 2435314

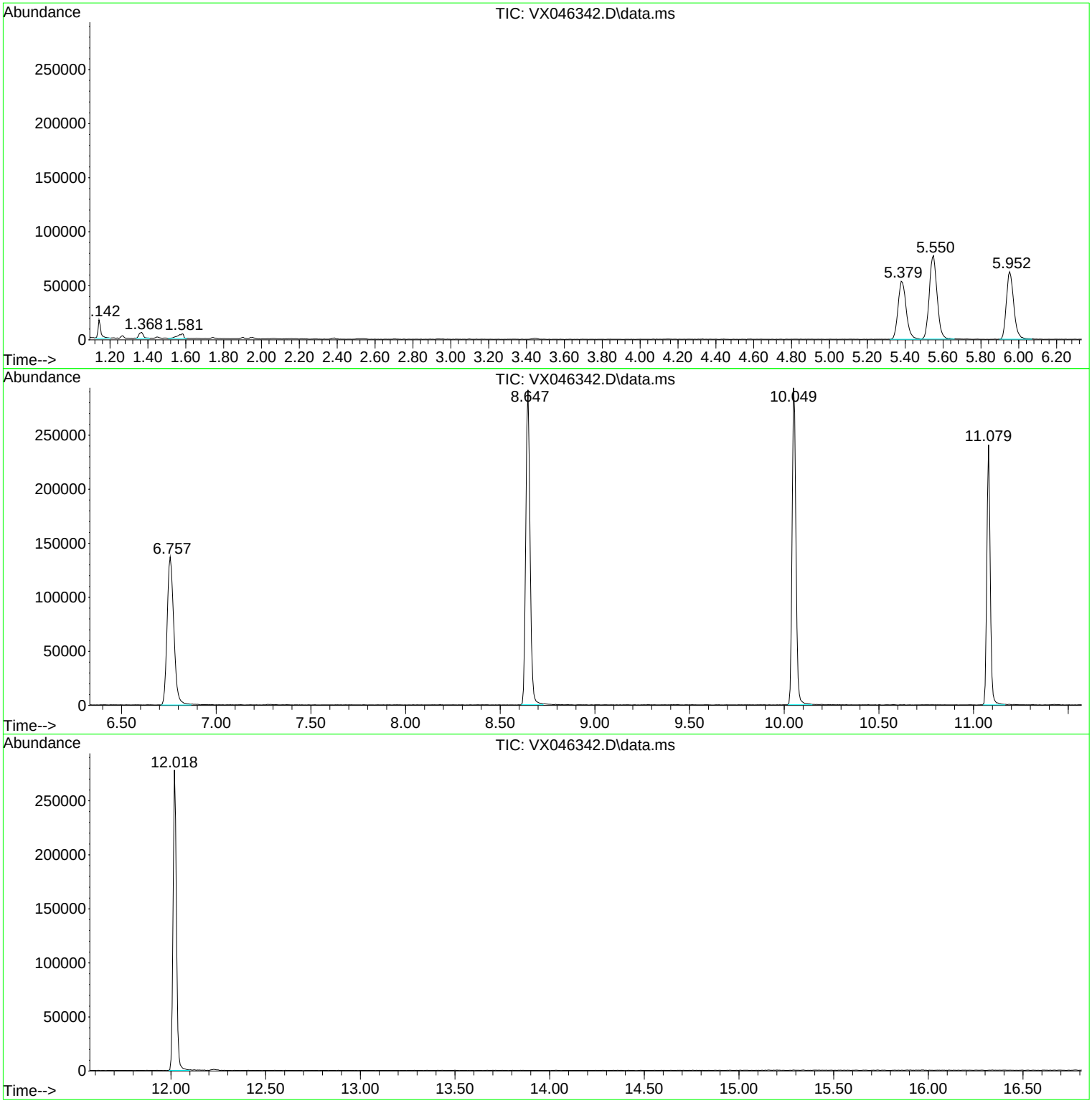
Sample Results: **VX046342.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046342.D
Acq On : 23 May 2025 14:06
Operator : JC/MD
Sample : Q2118-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-GW-420-422

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046342.D
Acq On : 23 May 2025 14:06
Operator : JC/MD
Sample : Q2118-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-GW-420-422

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046342.D
Acq On : 23 May 2025 14:06
Operator : JC/MD
Sample : Q2118-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-GW-420-422

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	05/20/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/22/25
Client Sample ID:	BP-VPB-182-GW-450-452	SDG No.:	Q2118
Lab Sample ID:	Q2118-03	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046343.D	1		05/23/25 14:29	VX052325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.23	0.75	1.00	ug/L
67-64-1	Acetone	2.70	J	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.19	0.75	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	05/20/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/22/25
Client Sample ID:	BP-VPB-182-GW-450-452	SDG No.:	Q2118
Lab Sample ID:	Q2118-03	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046343.D	1		05/23/25 14:29	VX052325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	54.0		81 - 118		108%	SPK: 50
1868-53-7	Dibromofluoromethane	51.4		80 - 119		103%	SPK: 50
2037-26-5	Toluene-d8	51.2		89 - 112		102%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.1		85 - 114		100%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	61700	5.544				
540-36-3	1,4-Difluorobenzene	122000	6.757				
3114-55-4	Chlorobenzene-d5	115000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	49100	12.018				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D					

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Fax : 908 789 8922

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	05/20/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/22/25
Client Sample ID:	BP-VPB-182-GW-450-452	SDG No.:	Q2118
Lab Sample ID:	Q2118-03	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046343.D	1		05/23/25 14:29	VX052325

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

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046343.D
Acq On : 23 May 2025 14:29
Operator : JC/MD
Sample : Q2118-03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-GW-450-452

Quant Time: May 23 23:02:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

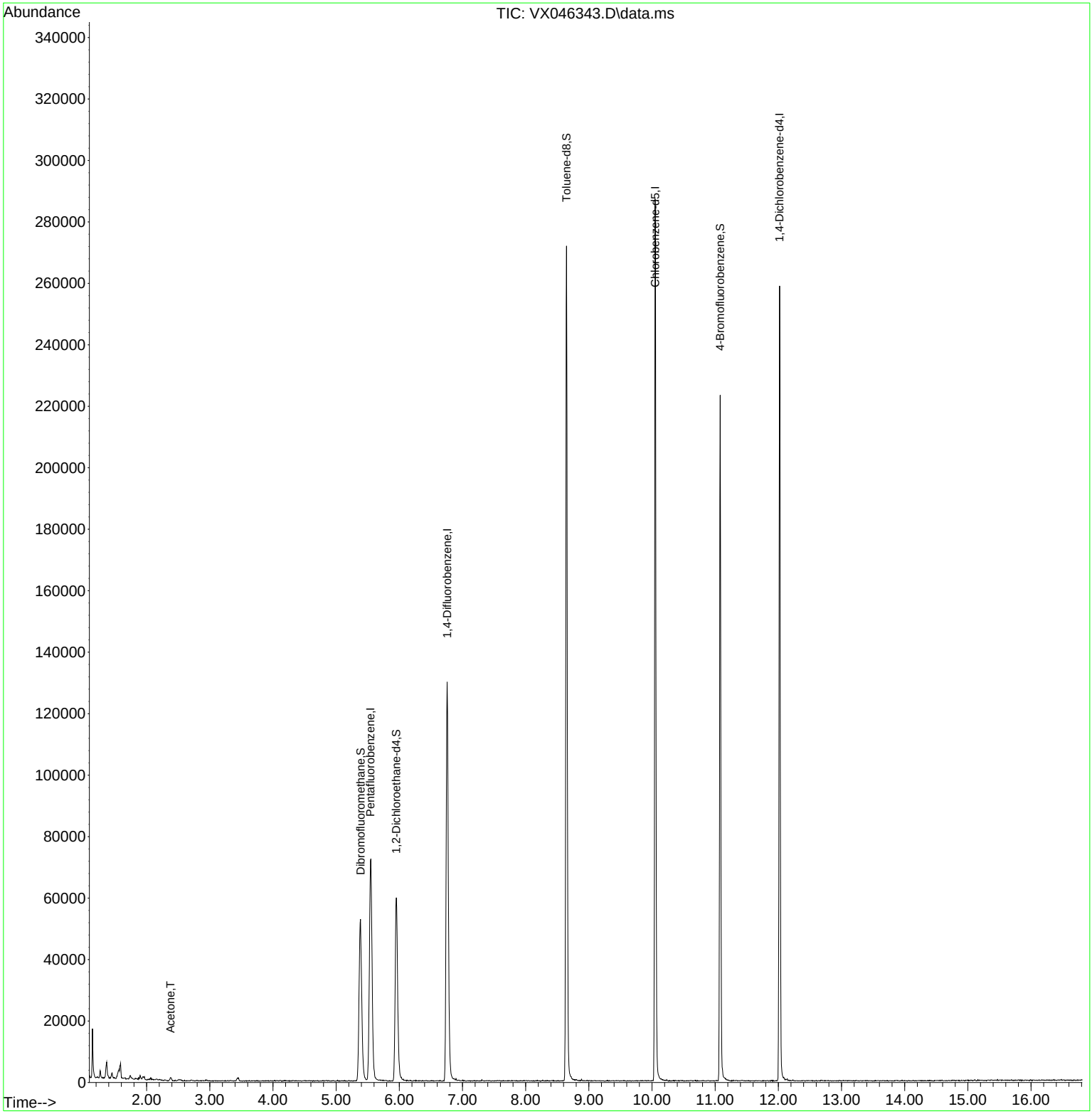
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	61687	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	122489	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	115391	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	49143	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	62133	54.027	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 108.060%			
35) Dibromofluoromethane	5.385	113	45376	51.444	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.880%			
50) Toluene-d8	8.647	98	156196	51.163	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.320%			
62) 4-Bromofluorobenzene	11.079	95	58715	50.139	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 100.280%			
Target Compounds						Qvalue
16) Acetone	2.380	43	1246	2.702	ug/l	91

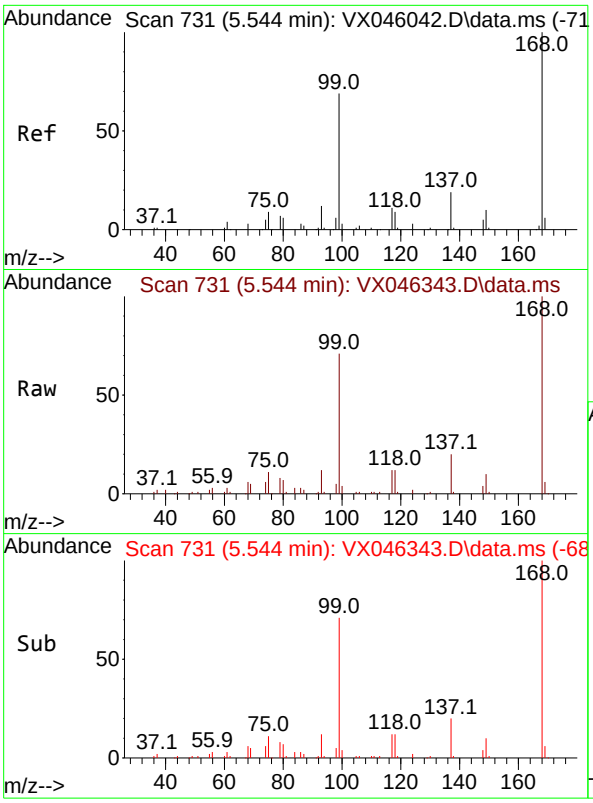
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046343.D
Acq On : 23 May 2025 14:29
Operator : JC/MD
Sample : Q2118-03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-GW-450-452

Quant Time: May 23 23:02:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration



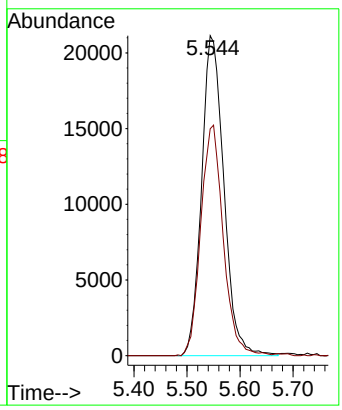


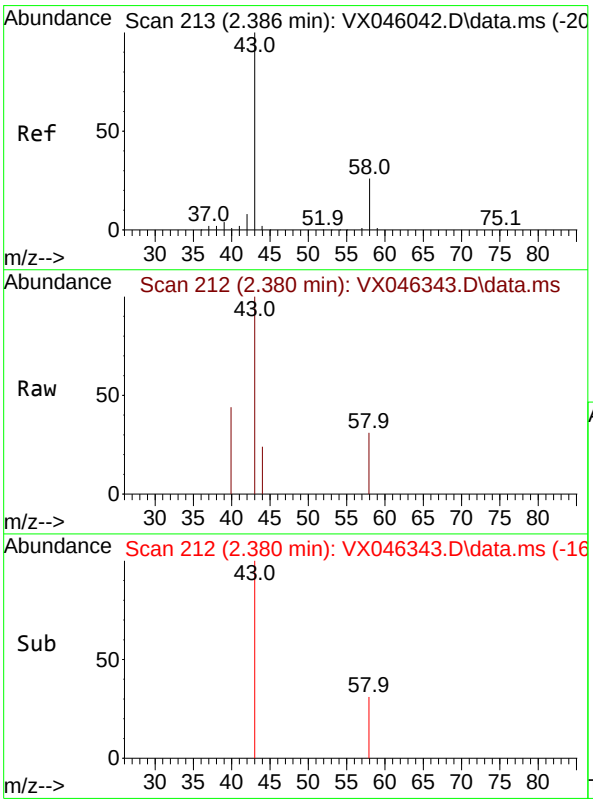
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX046343.D
Acq: 23 May 2025 14:29

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-GW-450-452

Tgt Ion:168 Resp: 61687

Ion	Ratio	Lower	Upper
168	100		
99	70.7	54.9	82.3

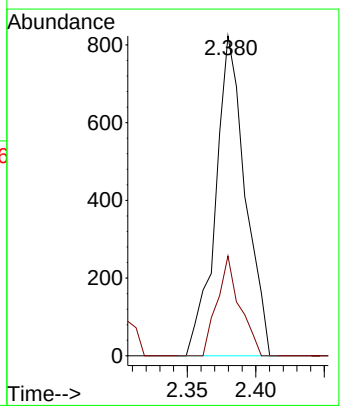


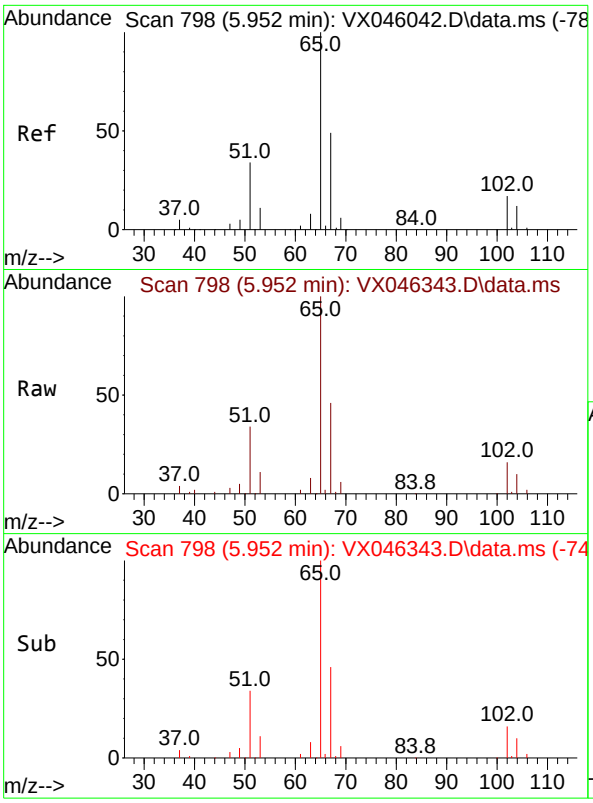


#16
Acetone
Concen: 2.702 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX046343.D
Acq: 23 May 2025 14:29

Tgt Ion: 43 Resp: 1246

Ion	Ratio	Lower	Upper
43	100		
58	31.2	21.2	31.8



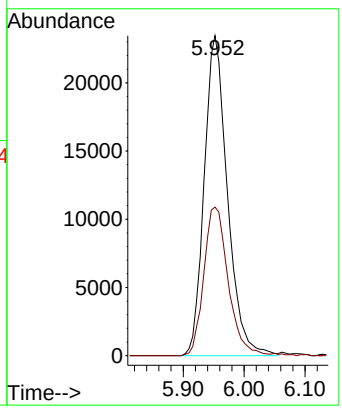


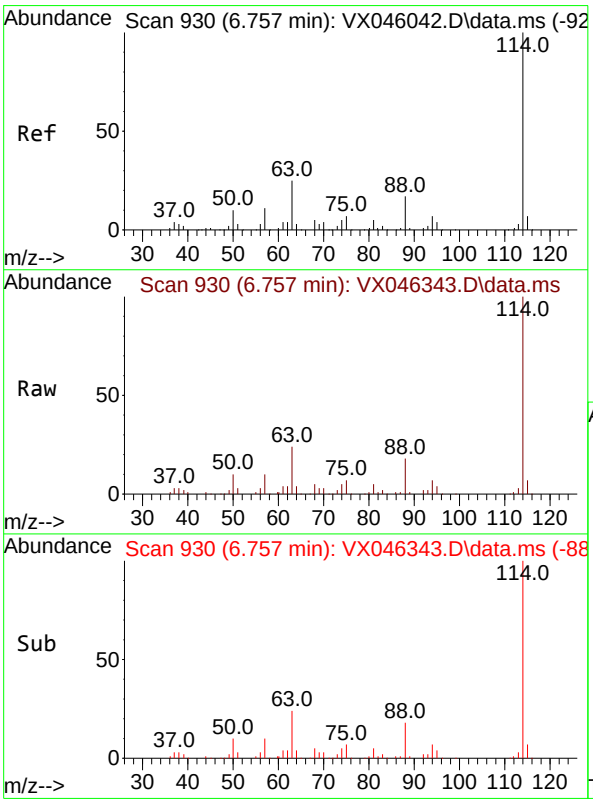
#33
1,2-Dichloroethane-d4
Concen: 54.027 ug/l
RT: 5.952 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX046343.D
Acq: 23 May 2025 14:29

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-GW-450-452

Tgt Ion: 65 Resp: 62133

Ion	Ratio	Lower	Upper
65	100		
67	48.7	0.0	99.0

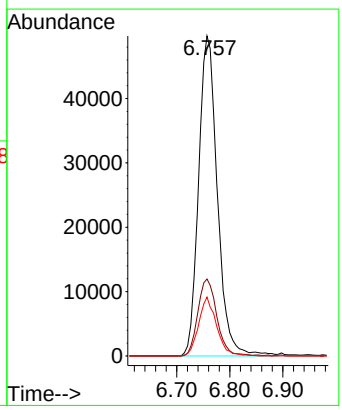


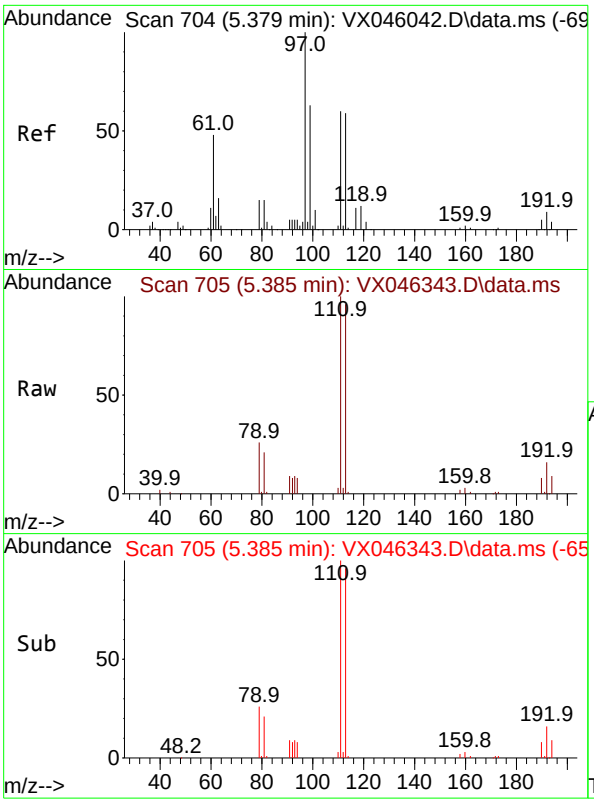


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX046343.D
Acq: 23 May 2025 14:29

Tgt Ion:114 Resp: 122489

Ion	Ratio	Lower	Upper
114	100		
63	24.0	0.0	49.2
88	18.4	0.0	33.6



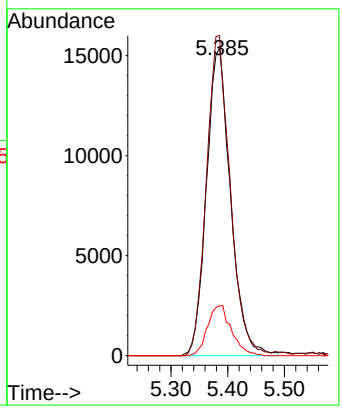


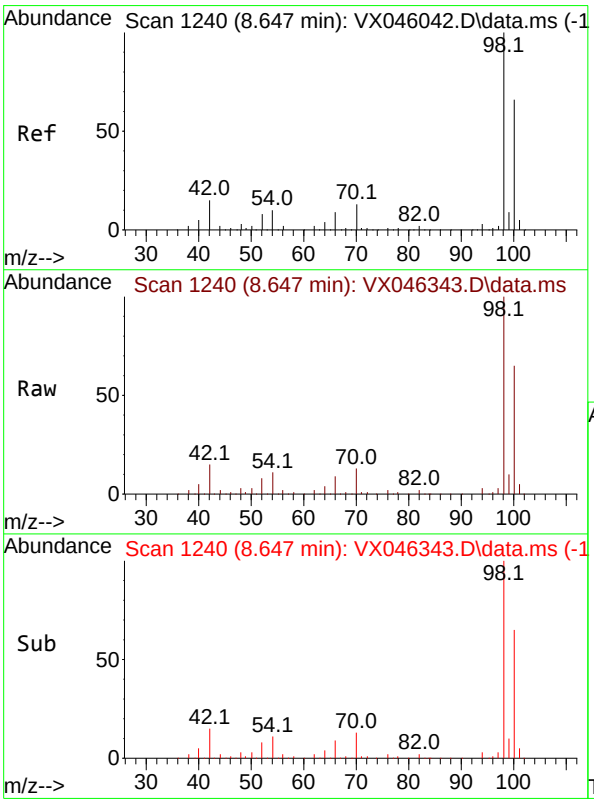
#35
Dibromofluoromethane
Concen: 51.444 ug/l
RT: 5.385 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX046343.D
Acq: 23 May 2025 14:29

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-GW-450-452

Tgt Ion:113 Resp: 45376

Ion	Ratio	Lower	Upper
113	100		
111	102.5	83.1	124.7
192	16.2	13.3	19.9

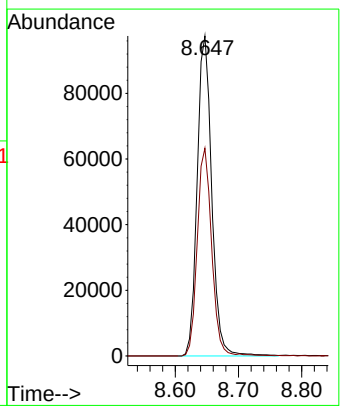


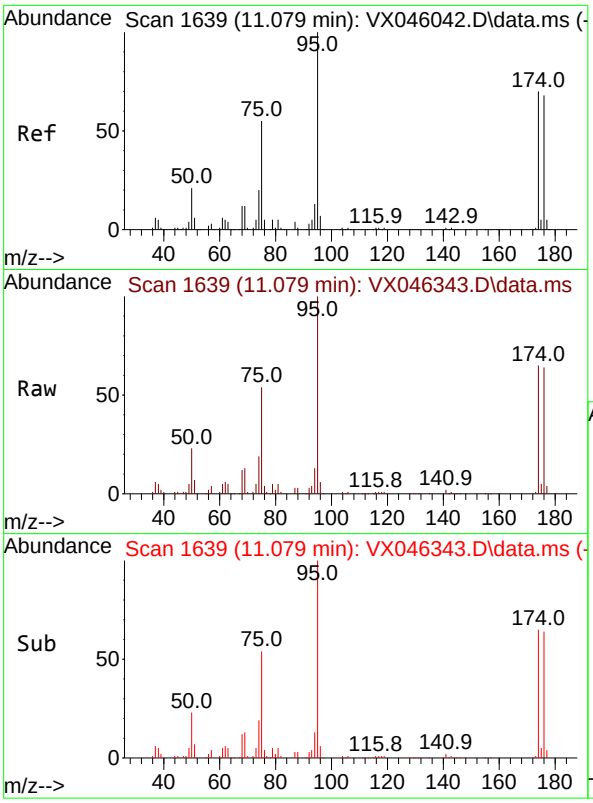


#50
Toluene-d8
Concen: 51.163 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX046343.D
Acq: 23 May 2025 14:29

Tgt Ion: 98 Resp: 156196

Ion	Ratio	Lower	Upper
98	100		
100	64.6	53.5	80.3



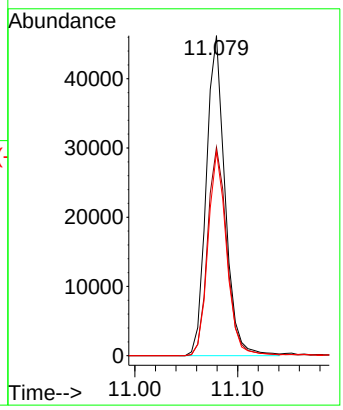


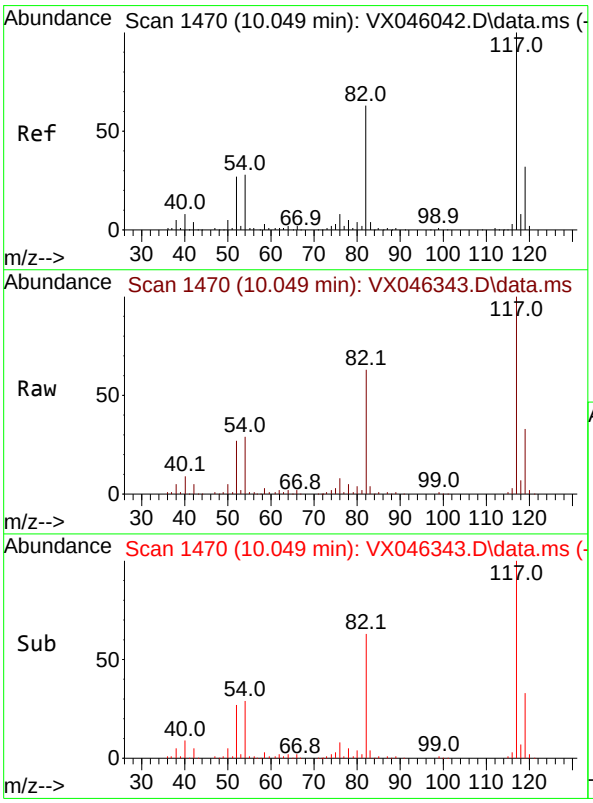
#62
4-Bromofluorobenzene
Concen: 50.139 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046343.D
Acq: 23 May 2025 14:29

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-GW-450-452

Tgt Ion: 95 Resp: 58715

Ion	Ratio	Lower	Upper
95	100		
174	67.5	0.0	135.8
176	63.2	0.0	131.4

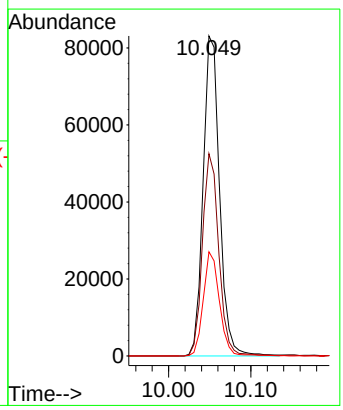


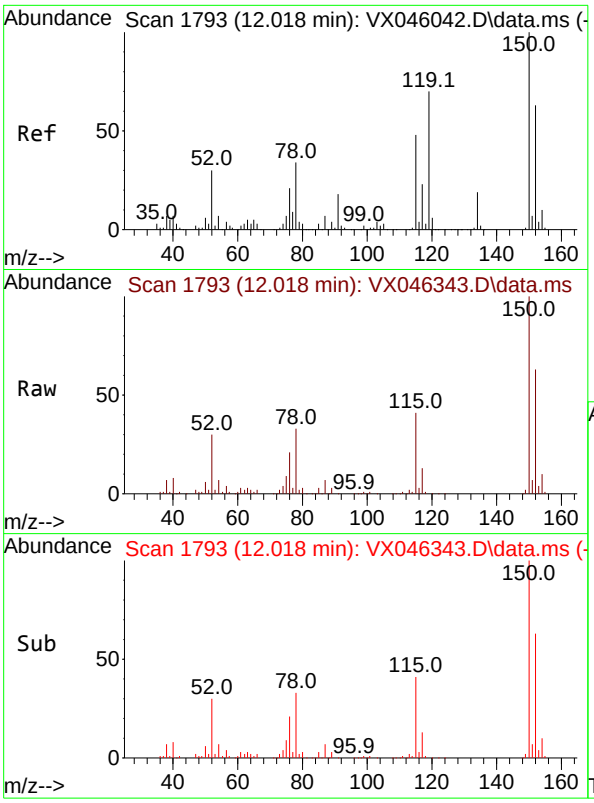


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX046343.D
Acq: 23 May 2025 14:29

Tgt Ion:117 Resp: 115391

Ion	Ratio	Lower	Upper
117	100		
82	63.2	50.6	76.0
119	32.6	25.8	38.6



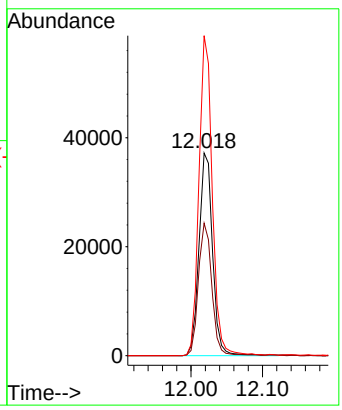


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046343.D
Acq: 23 May 2025 14:29

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-GW-450-452

Tgt Ion:152 Resp: 49143

Ion	Ratio	Lower	Upper
152	100		
115	64.5	46.9	140.7
150	154.3	0.0	351.0



Sample Results: **VX046343.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046343.D
Acq On : 23 May 2025 14:29
Operator : JC/MD
Sample : Q2118-03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-GW-450-452

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Title : SW846 8260

Signal : TIC: VX046343.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.142	6	9	18	rVB	15989	15391	3.54%	0.662%
2	1.368	40	46	53	rVB3	5276	8778	2.02%	0.378%
3	1.563	70	78	79	rBV4	2995	5643	1.30%	0.243%
4	1.587	79	82	84	rVB3	4601	5505	1.26%	0.237%
5	5.385	693	705	720	rBV2	52606	153707	35.31%	6.612%
6	5.550	721	732	752	rVB	72082	208386	47.88%	8.964%
7	5.952	788	798	815	rBV	59671	162569	37.35%	6.993%
8	6.757	922	930	946	rBV	129776	314480	72.25%	13.527%
9	8.647	1234	1240	1251	rBV	271453	435258	100.00%	18.723%
10	10.049	1465	1470	1485	rBV	286926	395791	90.93%	17.025%
11	11.079	1634	1639	1656	rBV	223075	290876	66.83%	12.512%
12	12.018	1788	1793	1803	rBV	258544	328386	75.45%	14.126%

Sum of corrected areas: 2324770

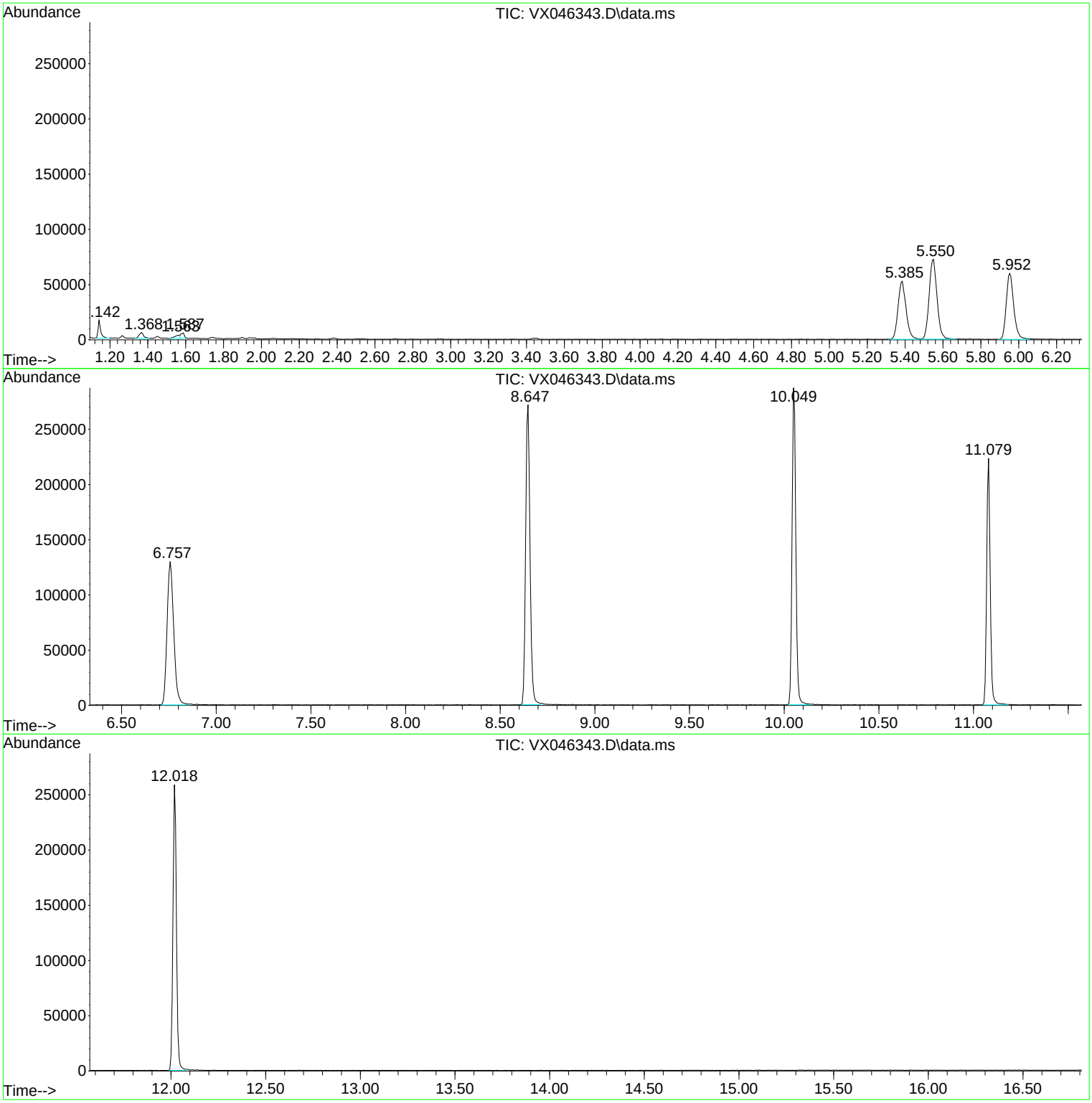
Sample Results: **VX046343.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046343.D
Acq On : 23 May 2025 14:29
Operator : JC/MD
Sample : Q2118-03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-GW-450-452

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046343.D
Acq On : 23 May 2025 14:29
Operator : JC/MD
Sample : Q2118-03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-GW-450-452

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046343.D
Acq On : 23 May 2025 14:29
Operator : JC/MD
Sample : Q2118-03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-GW-450-452

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	05/20/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/22/25
Client Sample ID:	BP-VPB-182-DUP-20250520	SDG No.:	Q2118
Lab Sample ID:	Q2118-04	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046344.D	1		05/23/25 14:53	VX052325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.23	0.75	1.00	ug/L
67-64-1	Acetone	3.00	J	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.19	0.75	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	05/20/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/22/25
Client Sample ID:	BP-VPB-182-DUP-20250520	SDG No.:	Q2118
Lab Sample ID:	Q2118-04	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046344.D	1		05/23/25 14:53	VX052325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	54.1		81 - 118		108%	SPK: 50
1868-53-7	Dibromofluoromethane	50.9		80 - 119		102%	SPK: 50
2037-26-5	Toluene-d8	50.5		89 - 112		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.7		85 - 114		99%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	62700	5.544				
540-36-3	1,4-Difluorobenzene	125000	6.757				
3114-55-4	Chlorobenzene-d5	116000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	47800	12.018				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D					

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	05/20/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/22/25
Client Sample ID:	BP-VPB-182-DUP-20250520	SDG No.:	Q2118
Lab Sample ID:	Q2118-04	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046344.D	1		05/23/25 14:53	VX052325

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

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046344.D
Acq On : 23 May 2025 14:53
Operator : JC/MD
Sample : Q2118-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-DUP-20250520

Quant Time: May 23 23:02:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

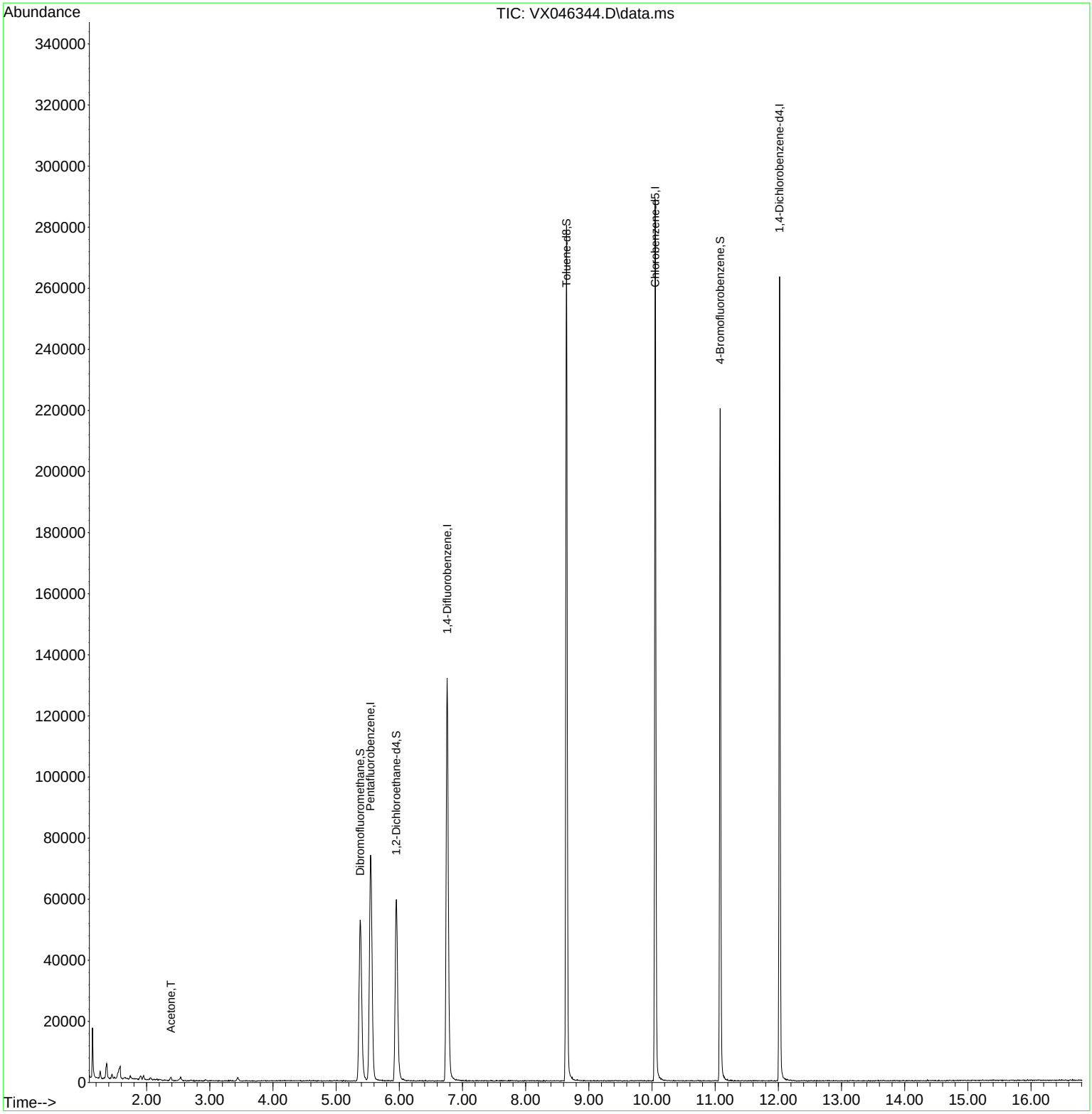
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	62715	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	124739	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	116065	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	47836	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	63254	54.100	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 108.200%			
35) Dibromofluoromethane	5.379	113	45684	50.859	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.720%			
50) Toluene-d8	8.647	98	156867	50.456	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.920%			
62) 4-Bromofluorobenzene	11.079	95	59241	49.676	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 99.360%			
Target Compounds						Qvalue
16) Acetone	2.386	43	1410	3.008	ug/l	97

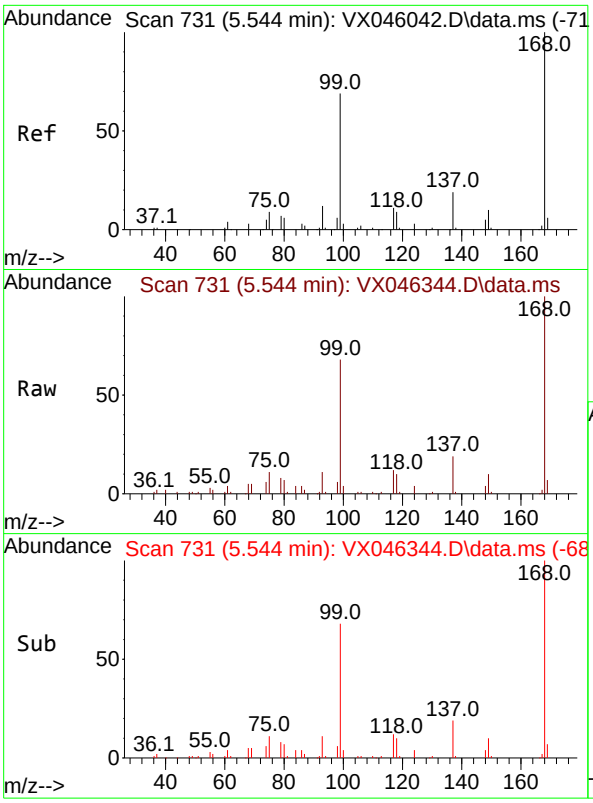
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046344.D
Acq On : 23 May 2025 14:53
Operator : JC/MD
Sample : Q2118-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-DUP-20250520

Quant Time: May 23 23:02:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration



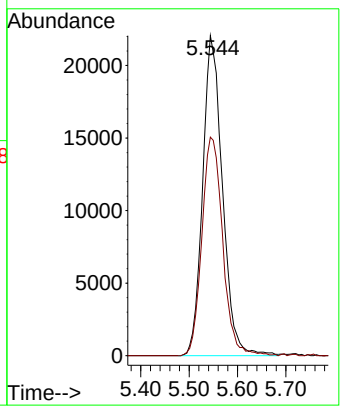


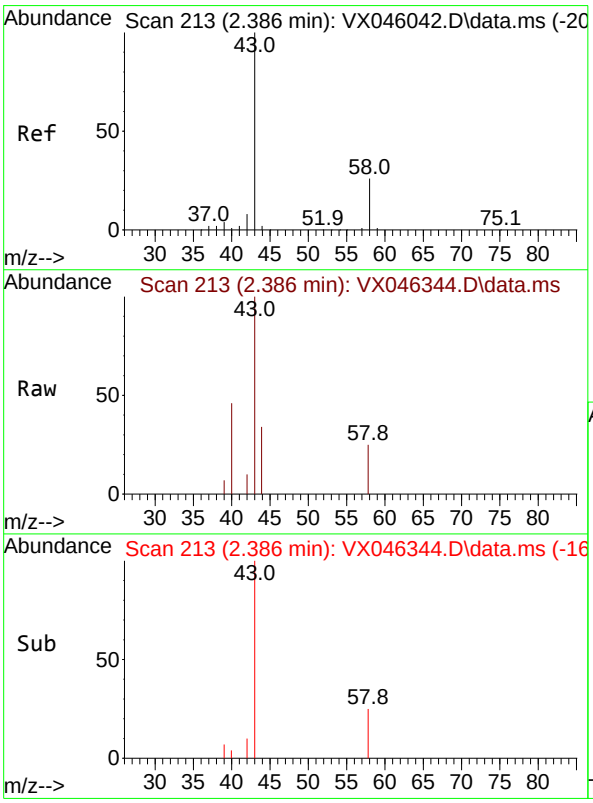
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX046344.D
Acq: 23 May 2025 14:53

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-DUP-20250520

Tgt Ion:168 Resp: 62715

Ion	Ratio	Lower	Upper
168	100		
99	68.3	54.9	82.3

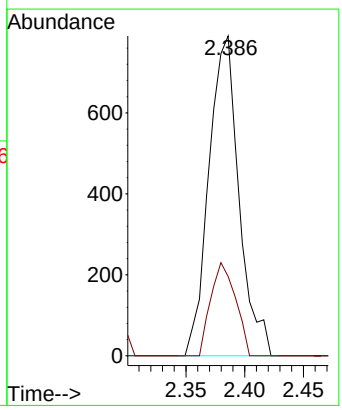


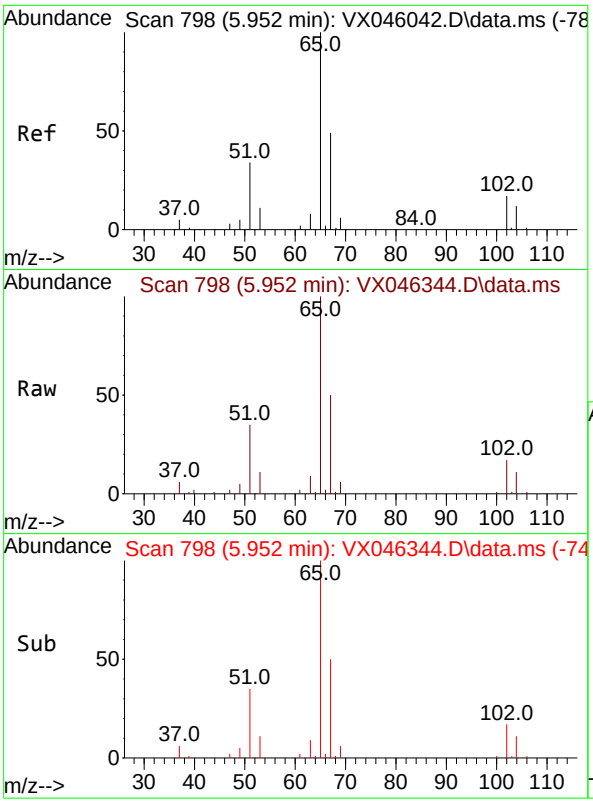


#16
Acetone
Concen: 3.008 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.000 min
Lab File: VX046344.D
Acq: 23 May 2025 14:53

Tgt Ion: 43 Resp: 1410

Ion	Ratio	Lower	Upper
43	100		
58	24.8	21.2	31.8



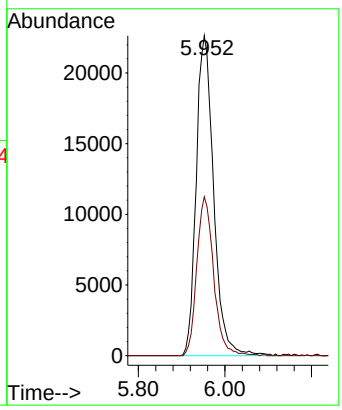


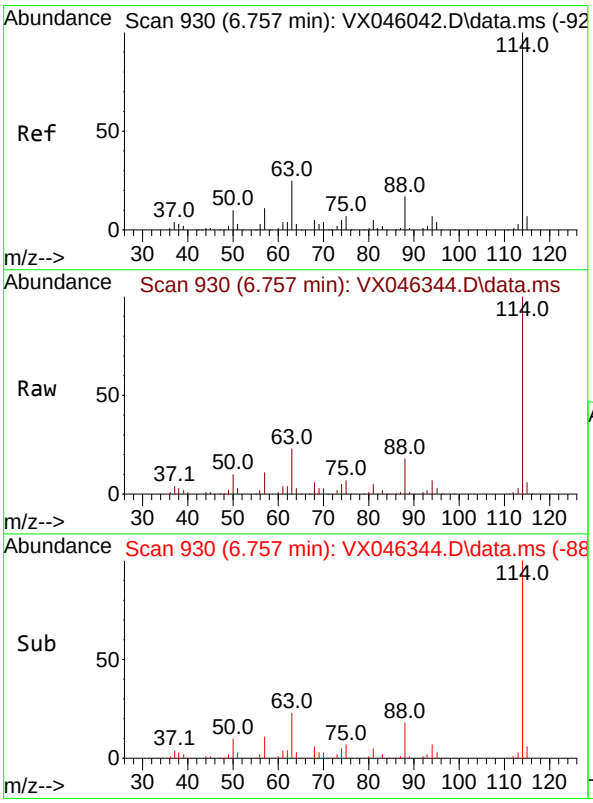
#33
1,2-Dichloroethane-d4
Concen: 54.100 ug/l
RT: 5.952 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX046344.D
Acq: 23 May 2025 14:53

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-DUP-20250520

Tgt Ion: 65 Resp: 63254

Ion	Ratio	Lower	Upper
65	100		
67	48.1	0.0	99.0

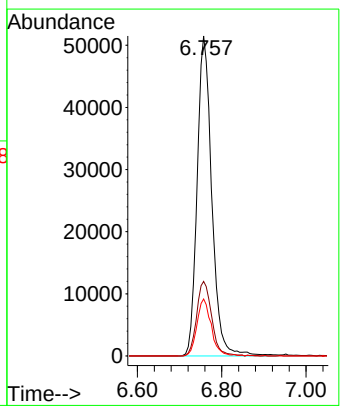


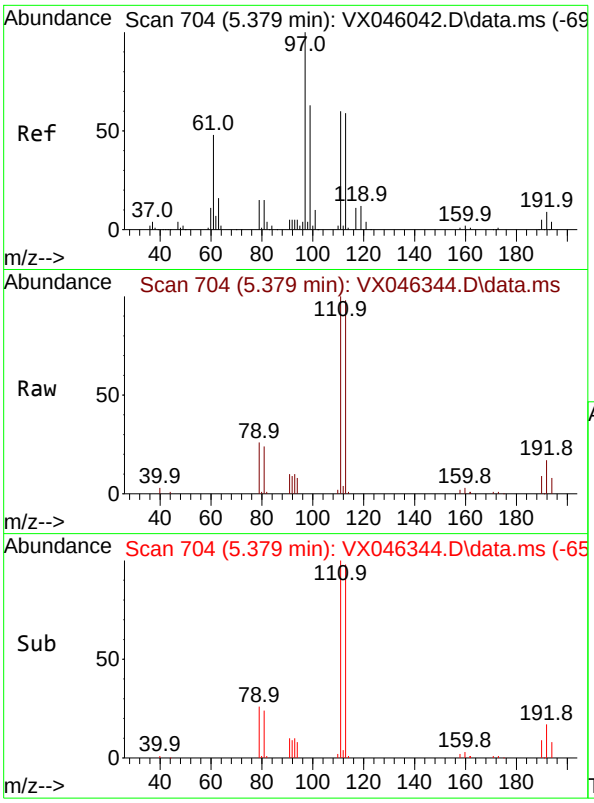


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX046344.D
Acq: 23 May 2025 14:53

Tgt Ion:114 Resp: 124739

Ion	Ratio	Lower	Upper
114	100		
63	23.3	0.0	49.2
88	17.8	0.0	33.6



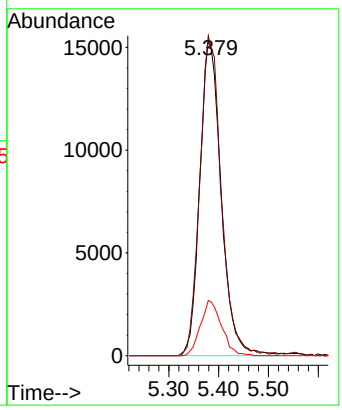


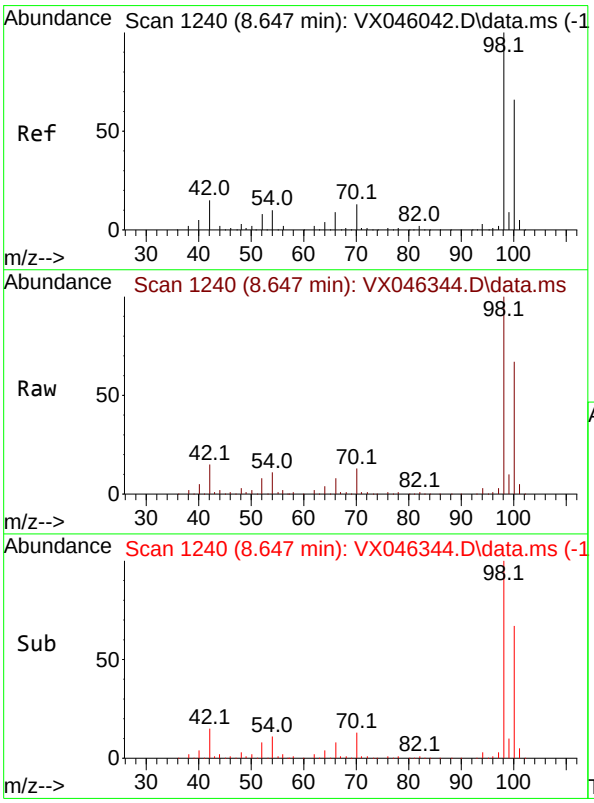
#35
Dibromofluoromethane
Concen: 50.859 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX046344.D
Acq: 23 May 2025 14:53

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-DUP-20250520

Tgt Ion:113 Resp: 45684

Ion	Ratio	Lower	Upper
113	100		
111	102.4	83.1	124.7
192	17.3	13.3	19.9

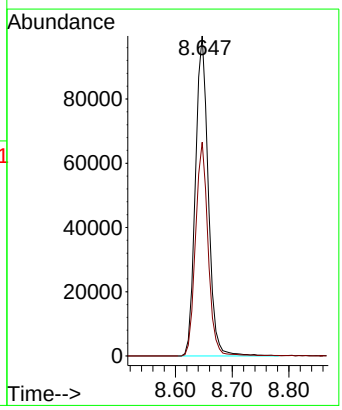


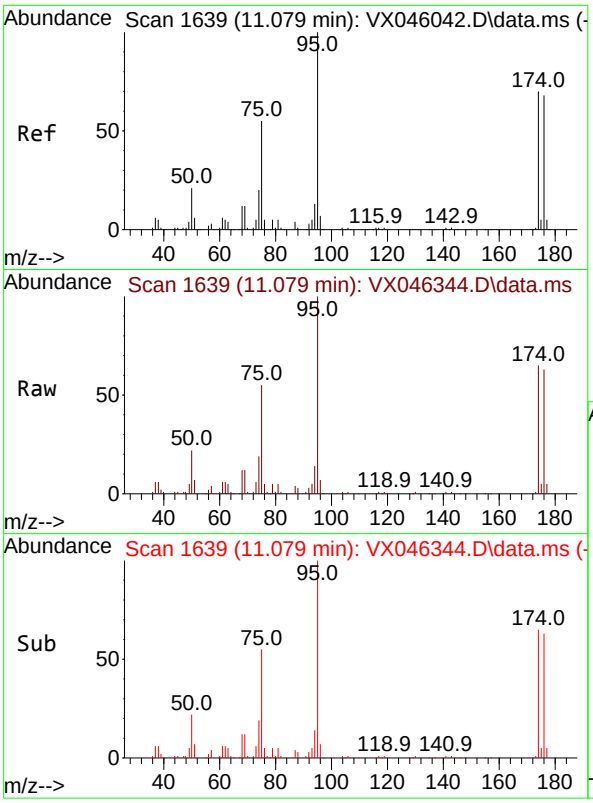


#50
Toluene-d8
Concen: 50.456 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX046344.D
Acq: 23 May 2025 14:53

Tgt Ion: 98 Resp: 156867

Ion	Ratio	Lower	Upper
98	100		
100	65.2	53.5	80.3



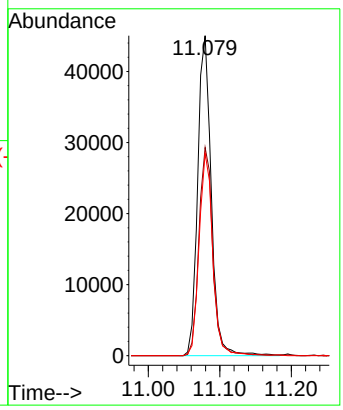


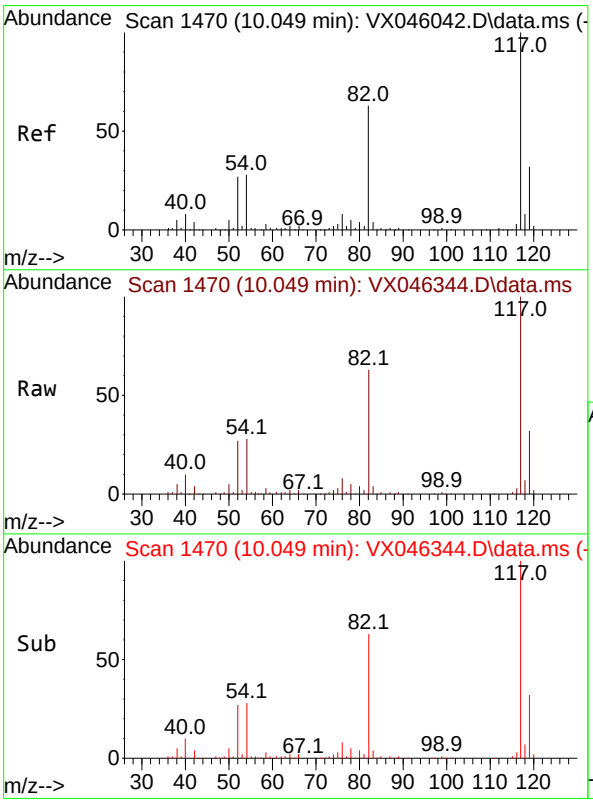
#62
4-Bromofluorobenzene
Concen: 49.676 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046344.D
Acq: 23 May 2025 14:53

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-DUP-20250520

Tgt Ion: 95 Resp: 59241

Ion	Ratio	Lower	Upper
95	100		
174	66.5	0.0	135.8
176	63.8	0.0	131.4

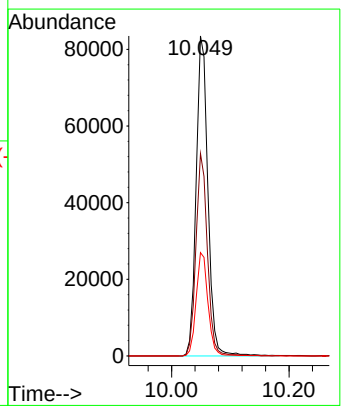


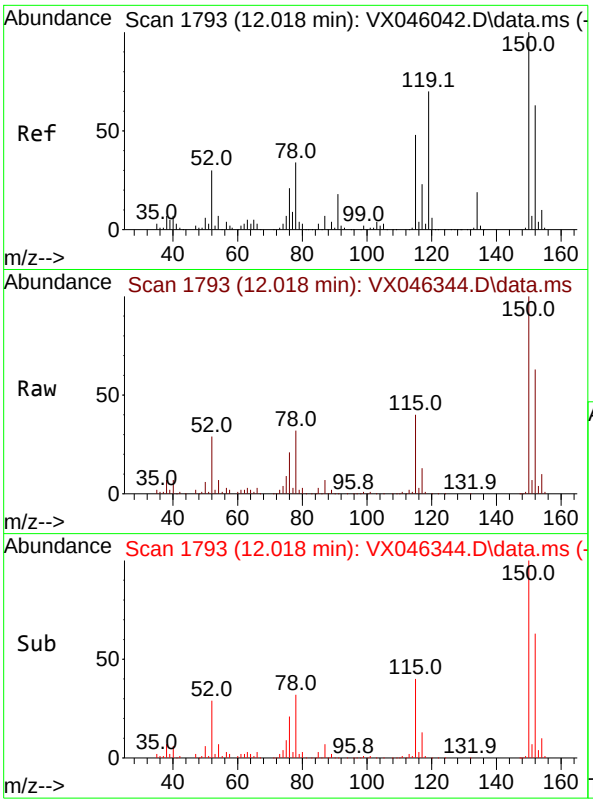


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX046344.D
Acq: 23 May 2025 14:53

Tgt Ion:117 Resp: 116065

Ion	Ratio	Lower	Upper
117	100		
82	63.2	50.6	76.0
119	32.3	25.8	38.6



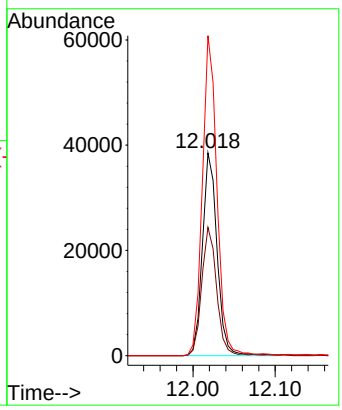


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046344.D
Acq: 23 May 2025 14:53

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-DUP-20250520

Tgt Ion:152 Resp: 47836

Ion	Ratio	Lower	Upper
152	100		
115	64.9	46.9	140.7
150	156.2	0.0	351.0



Sample Results: **VX046344.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046344.D
Acq On : 23 May 2025 14:53
Operator : JC/MD
Sample : Q2118-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-DUP-20250520

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Title : SW846 8260

Signal : TIC: VX046344.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.142	6	9	18	rVB	16386	16254	3.69%	0.699%
2	1.368	40	46	54	rVB2	4960	8410	1.91%	0.362%
3	5.379	695	704	721	rBV	52578	155006	35.21%	6.671%
4	5.544	721	731	750	rVB	73762	211824	48.11%	9.116%
5	5.952	789	798	813	rBV	59432	161813	36.75%	6.963%
6	6.757	921	930	946	rBV	131951	317091	72.02%	13.646%
7	8.647	1234	1240	1254	rBV	280213	440278	100.00%	18.947%
8	10.049	1465	1470	1481	rBV	288742	396847	90.14%	17.078%
9	11.079	1634	1639	1654	rBV	220174	290829	66.06%	12.516%
10	12.018	1788	1793	1804	rBV	263282	325398	73.91%	14.003%

Sum of corrected areas: 2323750

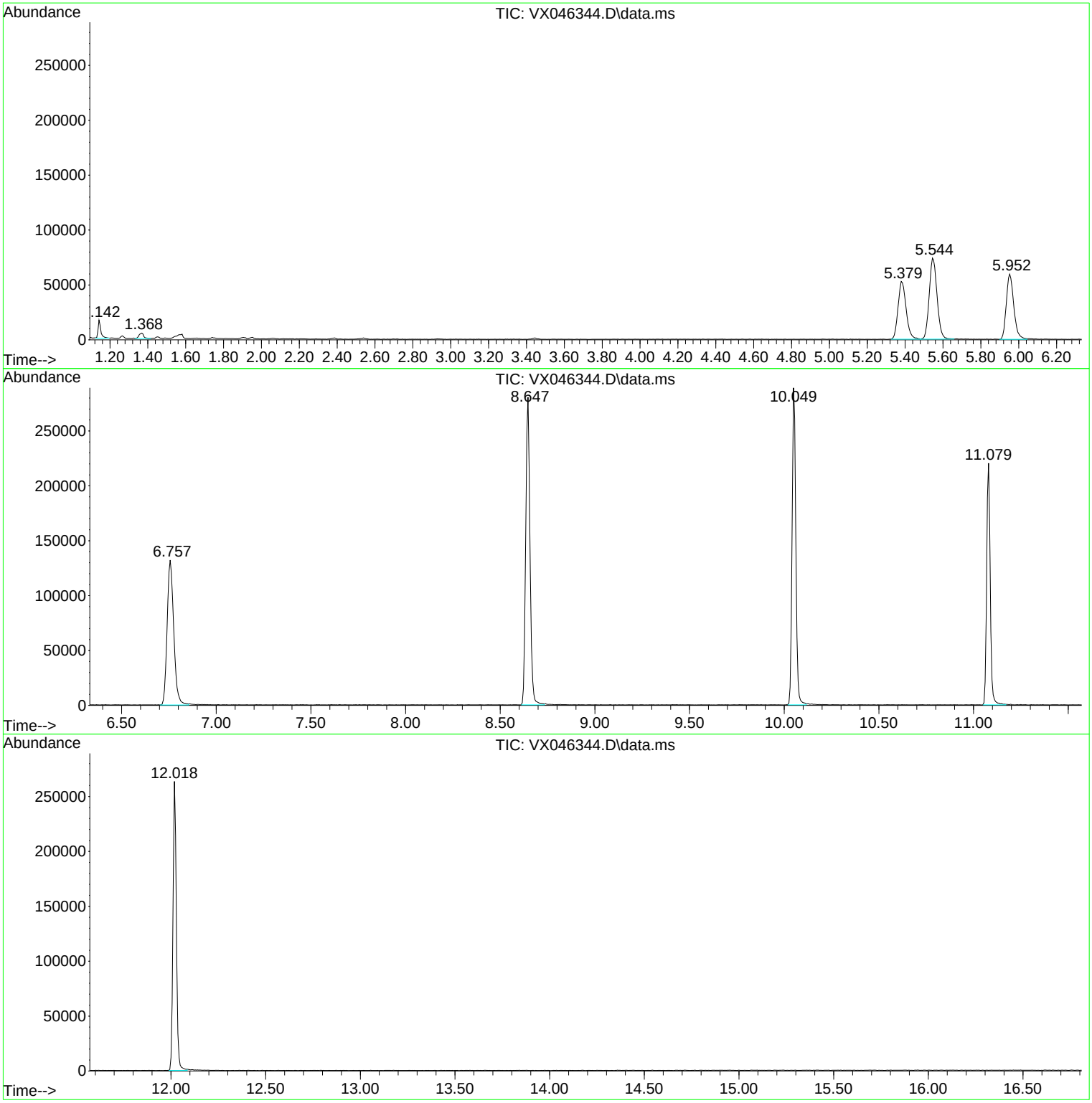
Sample Results: **VX046344.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046344.D
Acq On : 23 May 2025 14:53
Operator : JC/MD
Sample : Q2118-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-DUP-20250520

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046344.D
Acq On : 23 May 2025 14:53
Operator : JC/MD
Sample : Q2118-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-DUP-20250520

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046344.D
Acq On : 23 May 2025 14:53
Operator : JC/MD
Sample : Q2118-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-DUP-20250520

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	05/21/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/22/25
Client Sample ID:	BP-VPB-182-GW-460-462	SDG No.:	Q2118
Lab Sample ID:	Q2118-05	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046341.D	1		05/23/25 13:43	VX052325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.23	0.75	1.00	ug/L
67-64-1	Acetone	2.90	J	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.45	J	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.19	0.75	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	05/21/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/22/25
Client Sample ID:	BP-VPB-182-GW-460-462	SDG No.:	Q2118
Lab Sample ID:	Q2118-05	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046341.D	1		05/23/25 13:43	VX052325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	53.5		81 - 118		107%	SPK: 50
1868-53-7	Dibromofluoromethane	50.3		80 - 119		101%	SPK: 50
2037-26-5	Toluene-d8	50.2		89 - 112		100%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.9		85 - 114		104%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	66200	5.55				
540-36-3	1,4-Difluorobenzene	134000	6.757				
3114-55-4	Chlorobenzene-d5	126000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	54700	12.018				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D					

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	05/21/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/22/25
Client Sample ID:	BP-VPB-182-GW-460-462	SDG No.:	Q2118
Lab Sample ID:	Q2118-05	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046341.D	1		05/23/25 13:43	VX052325

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

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046341.D
Acq On : 23 May 2025 13:43
Operator : JC/MD
Sample : Q2118-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-GW-460-462

Quant Time: May 23 23:01:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

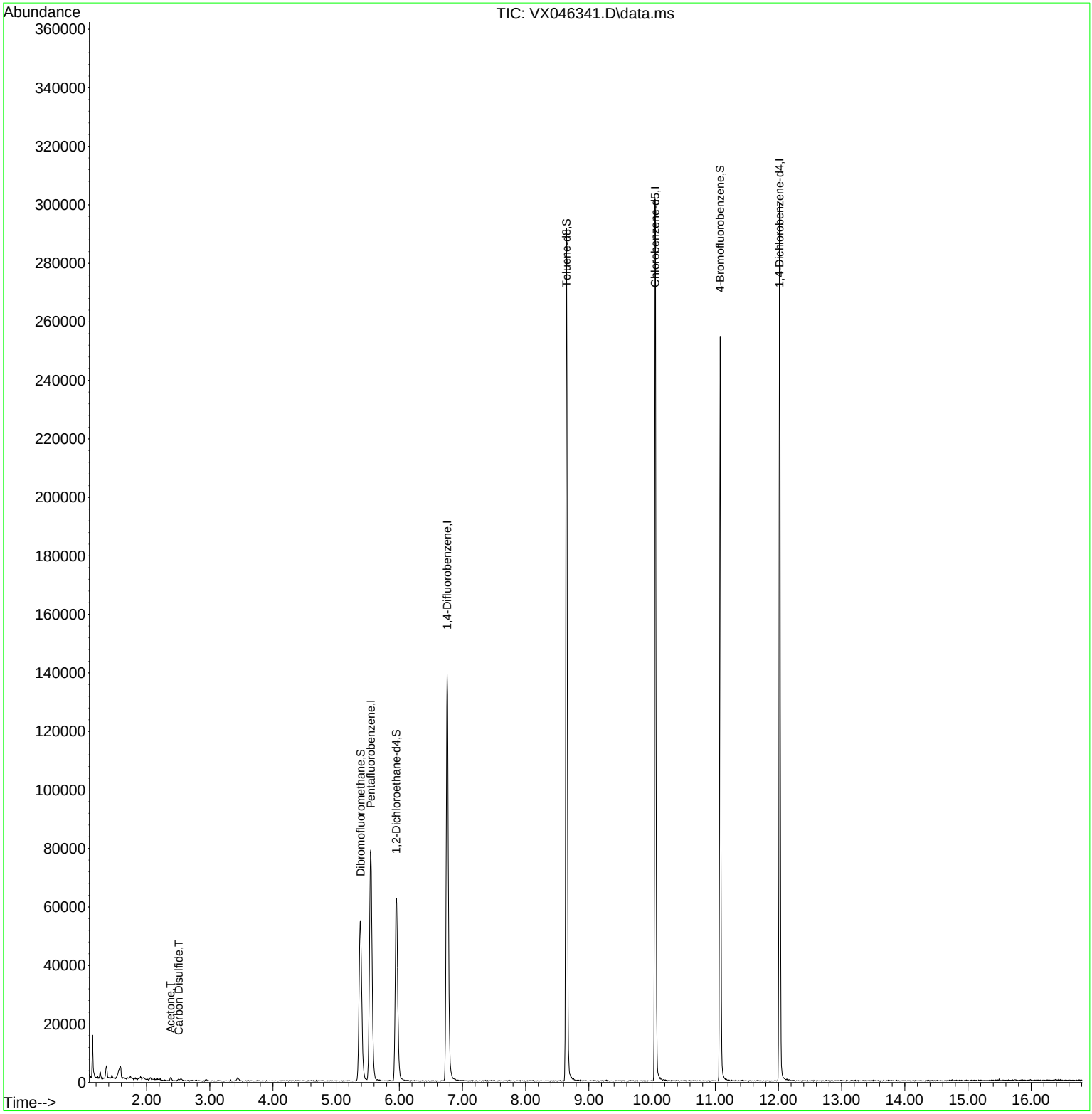
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	66245	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	133836	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	126415	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	54701	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	66015	53.453	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 106.900%			
35) Dibromofluoromethane	5.385	113	48522	50.347	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.700%			
50) Toluene-d8	8.647	98	167542	50.227	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.460%			
62) 4-Bromofluorobenzene	11.079	95	66411	51.903	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 103.800%			
Target Compounds						Qvalue
16) Acetone	2.380	43	1448	2.924	ug/l #	83
17) Carbon Disulfide	2.508	76	844	0.453	ug/l	97

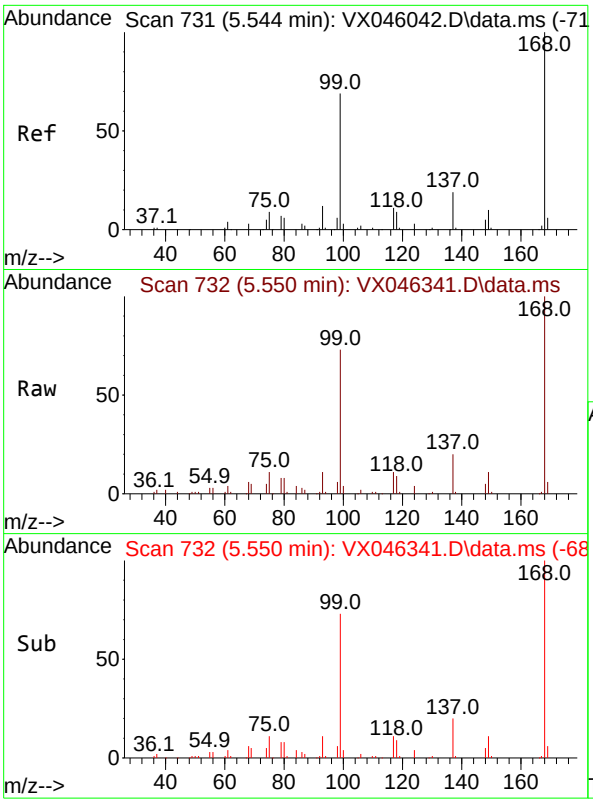
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046341.D
Acq On : 23 May 2025 13:43
Operator : JC/MD
Sample : Q2118-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-GW-460-462

Quant Time: May 23 23:01:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration



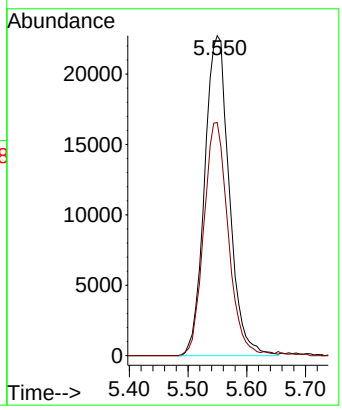


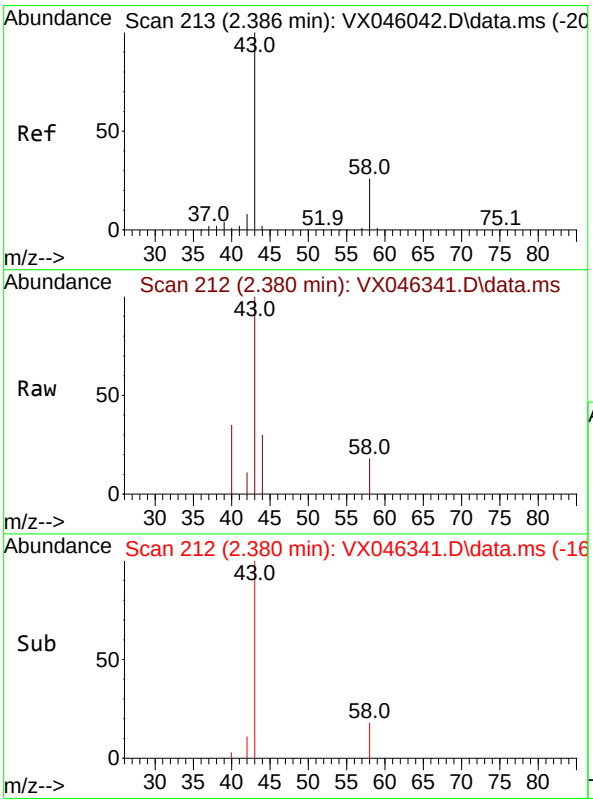
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX046341.D
Acq: 23 May 2025 13:43

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-GW-460-462

Tgt Ion:168 Resp: 66245

Ion	Ratio	Lower	Upper
168	100		
99	72.9	54.9	82.3

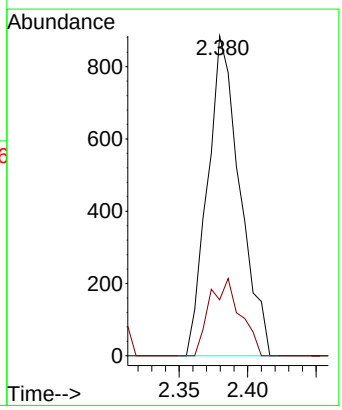


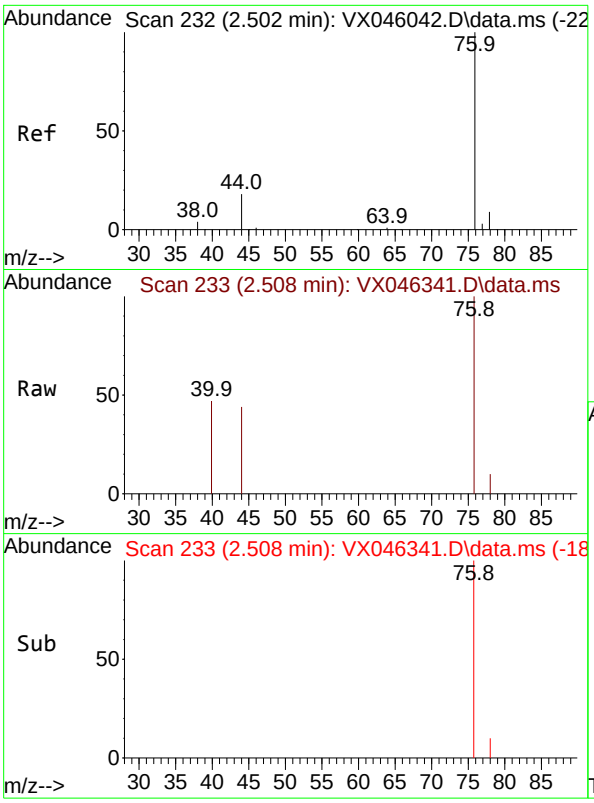


#16
Acetone
Concen: 2.924 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX046341.D
Acq: 23 May 2025 13:43

Tgt Ion: 43 Resp: 1448

Ion	Ratio	Lower	Upper
43	100		
58	17.5	21.2	31.8#



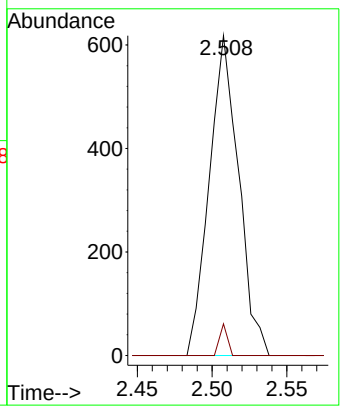


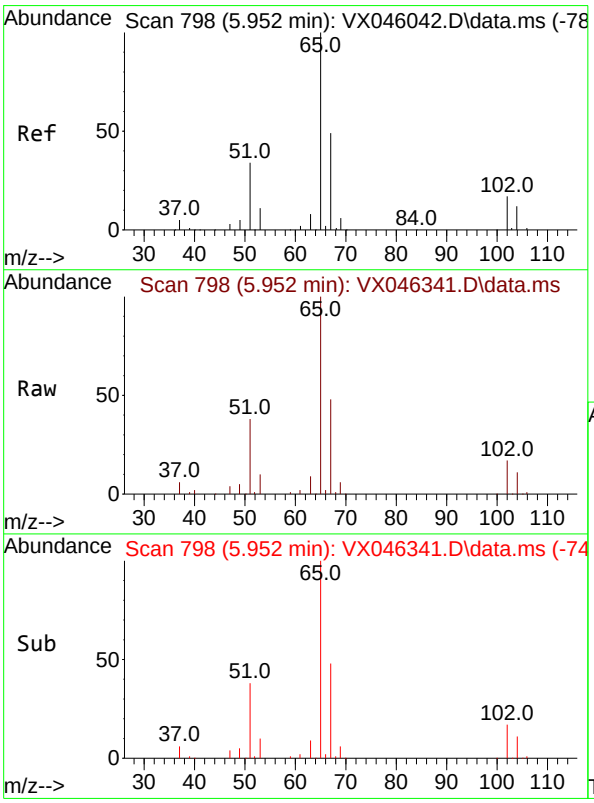
#17
Carbon Disulfide
Concen: 0.453 ug/l
RT: 2.508 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX046341.D
Acq: 23 May 2025 13:43

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-GW-460-462

Tgt Ion: 76 Resp: 844

Ion	Ratio	Lower	Upper
76	100		
78	9.9	7.0	10.4

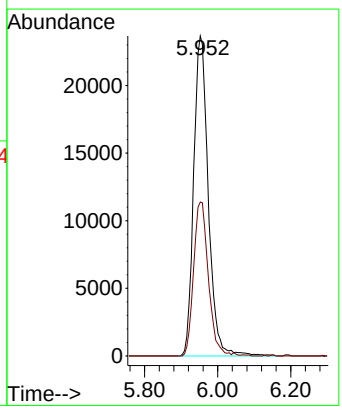


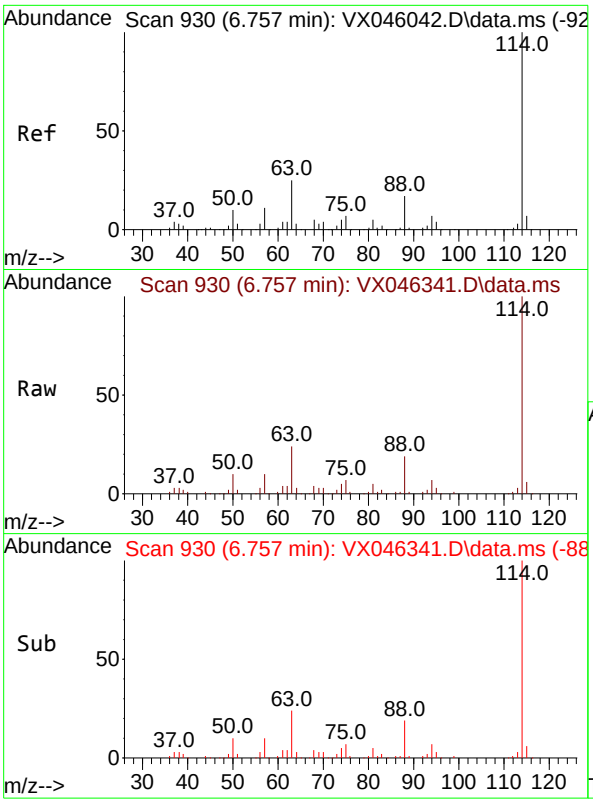


#33
1,2-Dichloroethane-d4
Concen: 53.453 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.000 min
Lab File: VX046341.D
Acq: 23 May 2025 13:43

Tgt Ion: 65 Resp: 66015

Ion	Ratio	Lower	Upper
65	100		
67	48.4	0.0	99.0



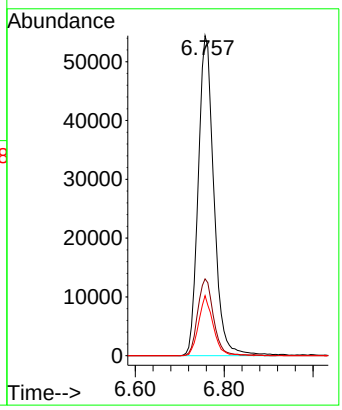


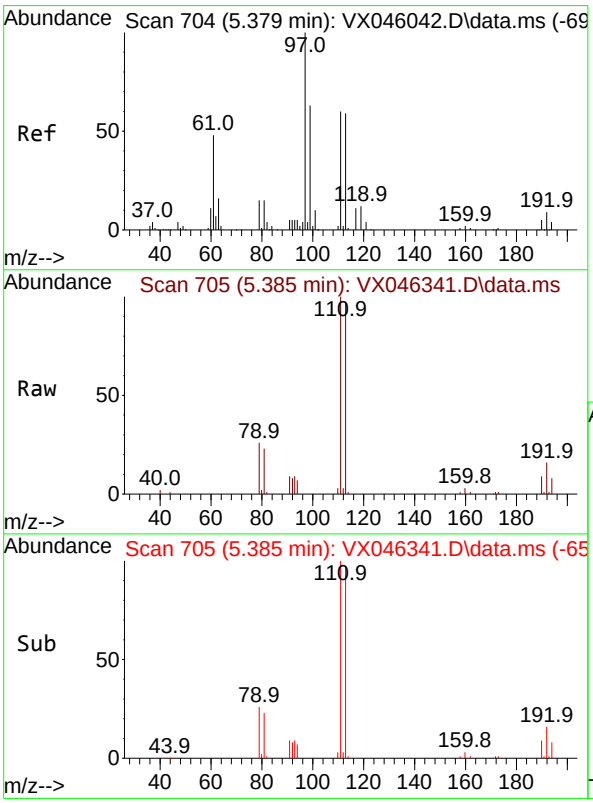
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX046341.D
Acq: 23 May 2025 13:43

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-GW-460-462

Tgt Ion:114 Resp: 133836

Ion	Ratio	Lower	Upper
114	100		
63	24.0	0.0	49.2
88	18.8	0.0	33.6

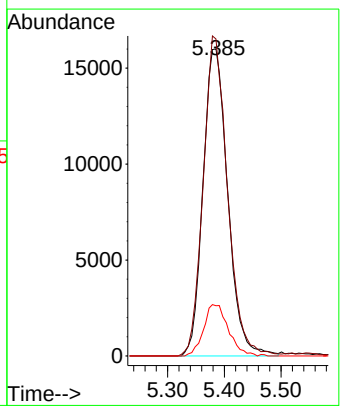


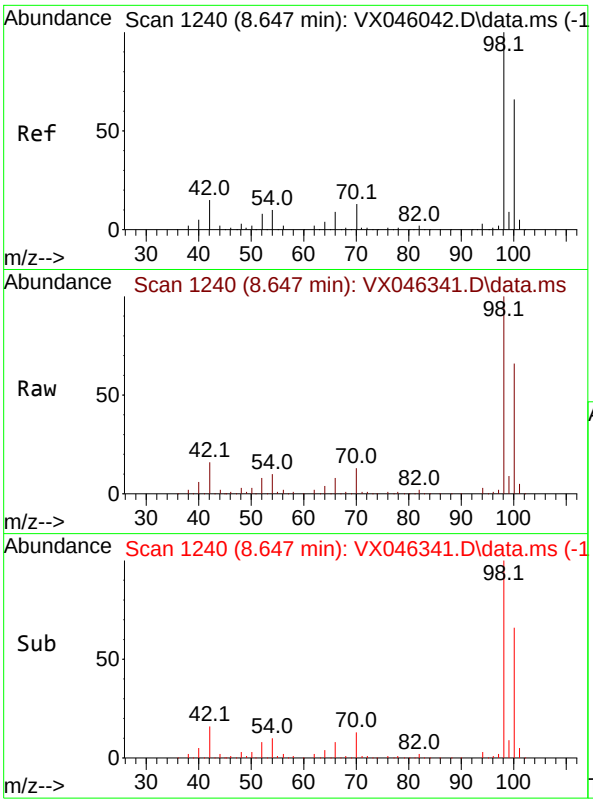


#35
Dibromofluoromethane
Concen: 50.347 ug/l
RT: 5.385 min Scan# 705
Delta R.T. 0.006 min
Lab File: VX046341.D
Acq: 23 May 2025 13:43

Tgt Ion:113 Resp: 48522

Ion	Ratio	Lower	Upper
113	100		
111	102.2	83.1	124.7
192	16.7	13.3	19.9



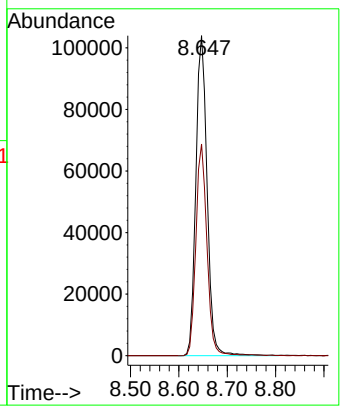


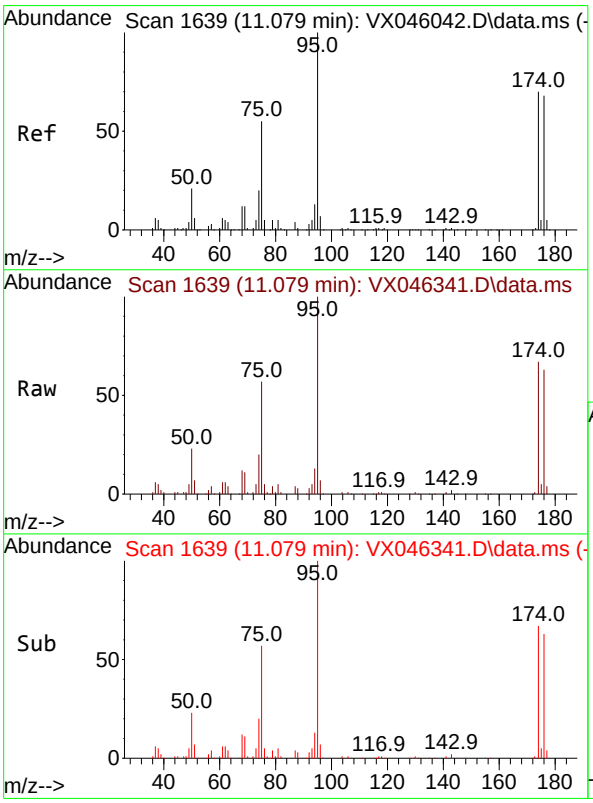
#50
Toluene-d8
Concen: 50.227 ug/l
RT: 8.647 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046341.D
Acq: 23 May 2025 13:43

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-GW-460-462

Tgt Ion: 98 Resp: 167542

Ion	Ratio	Lower	Upper
98	100		
100	64.8	53.5	80.3

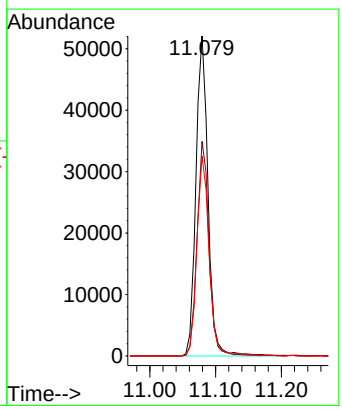


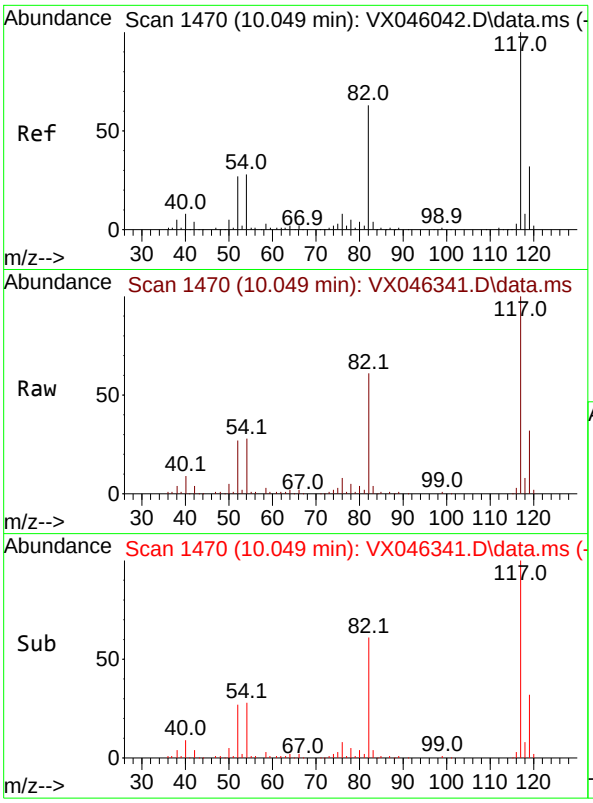


#62
4-Bromofluorobenzene
Concen: 51.903 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX046341.D
Acq: 23 May 2025 13:43

Tgt Ion: 95 Resp: 66411

Ion	Ratio	Lower	Upper
95	100		
174	66.8	0.0	135.8
176	63.0	0.0	131.4



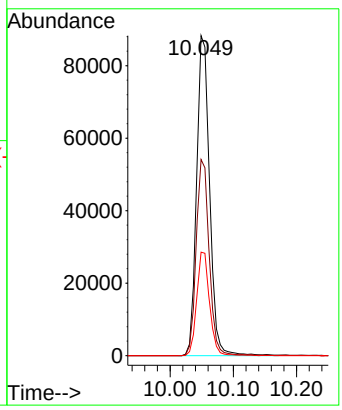


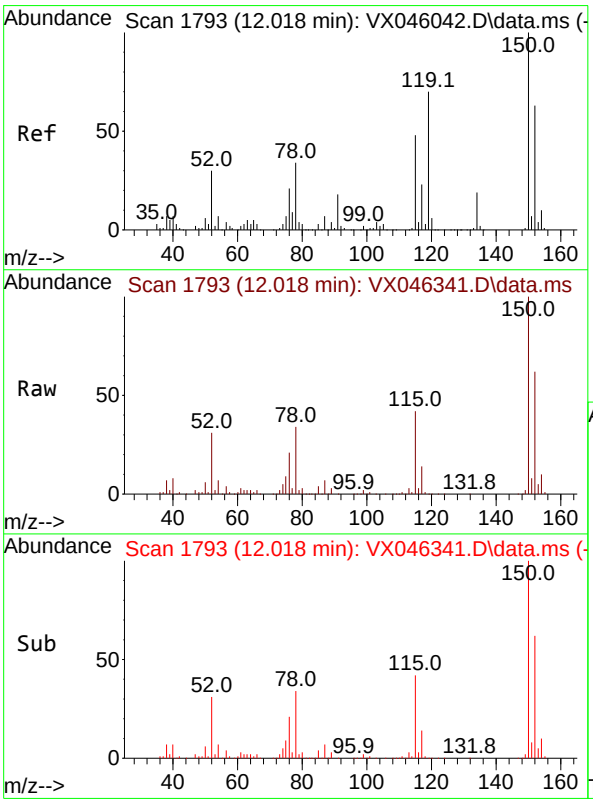
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX046341.D
Acq: 23 May 2025 13:43

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-GW-460-462

Tgt Ion:117 Resp: 126415

Ion	Ratio	Lower	Upper
117	100		
82	61.3	50.6	76.0
119	32.3	25.8	38.6

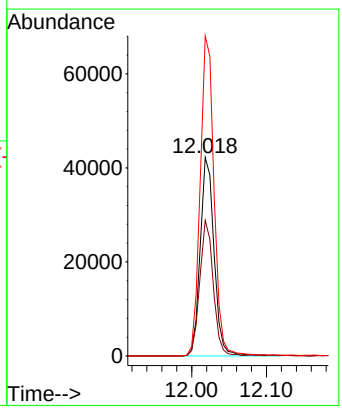




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX046341.D
Acq: 23 May 2025 13:43

Tgt Ion:152 Resp: 54701

Ion	Ratio	Lower	Upper
152	100		
115	66.2	46.9	140.7
150	160.9	0.0	351.0



Sample Results: **VX046341.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046341.D
Acq On : 23 May 2025 13:43
Operator : JC/MD
Sample : Q2118-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-GW-460-462

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Title : SW846 8260

Signal : TIC: VX046341.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.142	6	9	17	rVB	14606	14430	3.08%	0.570%
2	1.368	40	46	49	rBV4	4174	6579	1.41%	0.260%
3	1.581	69	81	86	rBV5	4216	12420	2.65%	0.491%
4	5.385	692	705	722	rBV	54711	164167	35.07%	6.490%
5	5.544	722	731	748	rVB2	78131	224330	47.93%	8.868%
6	5.952	789	798	817	rBV	62585	171296	36.60%	6.772%
7	6.757	921	930	946	rBV	138991	336894	71.98%	13.318%
8	8.647	1233	1240	1251	rBV	291392	468061	100.00%	18.503%
9	10.049	1465	1470	1482	rBV	301415	426678	91.16%	16.867%
10	11.079	1634	1639	1652	rBV	254253	322102	68.82%	12.733%
11	12.018	1788	1793	1810	rBV	300076	382670	81.76%	15.128%

Sum of corrected areas: 2529627

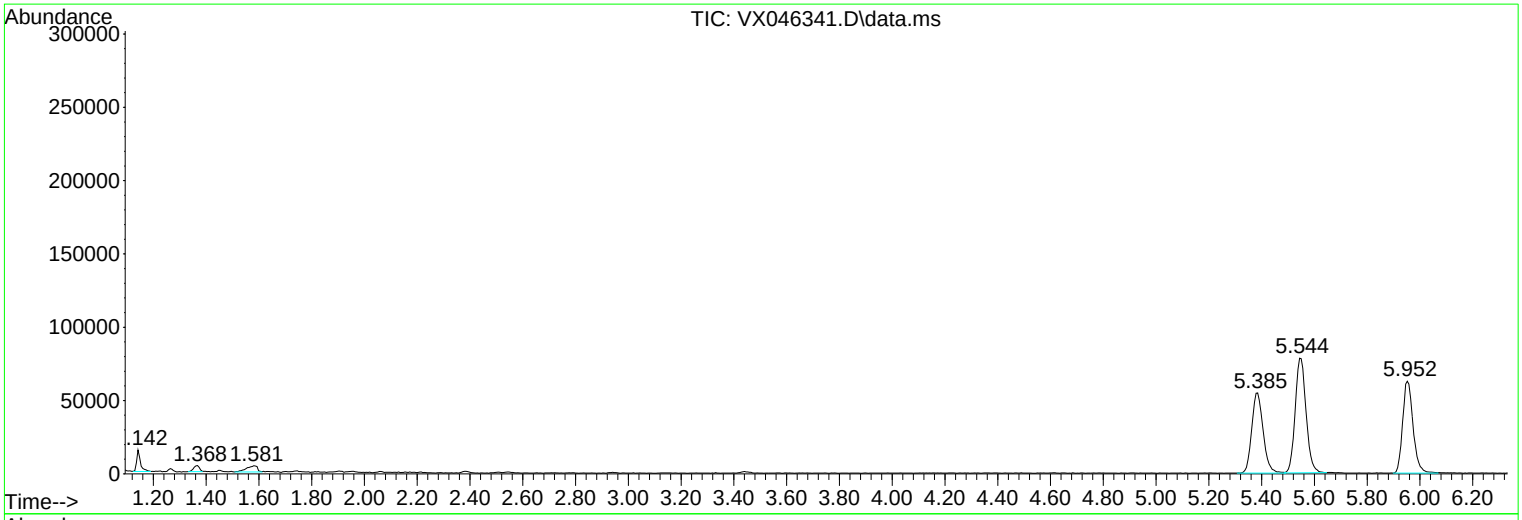
Sample Results: **VX046341.D**

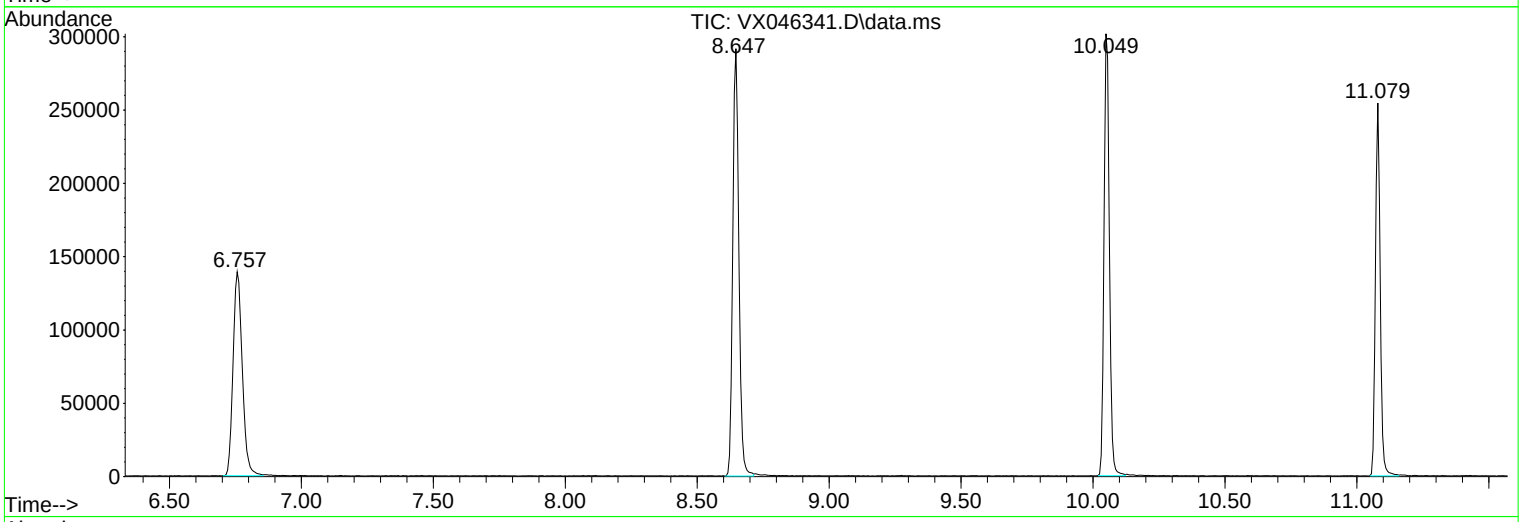
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046341.D
Acq On : 23 May 2025 13:43
Operator : JC/MD
Sample : Q2118-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

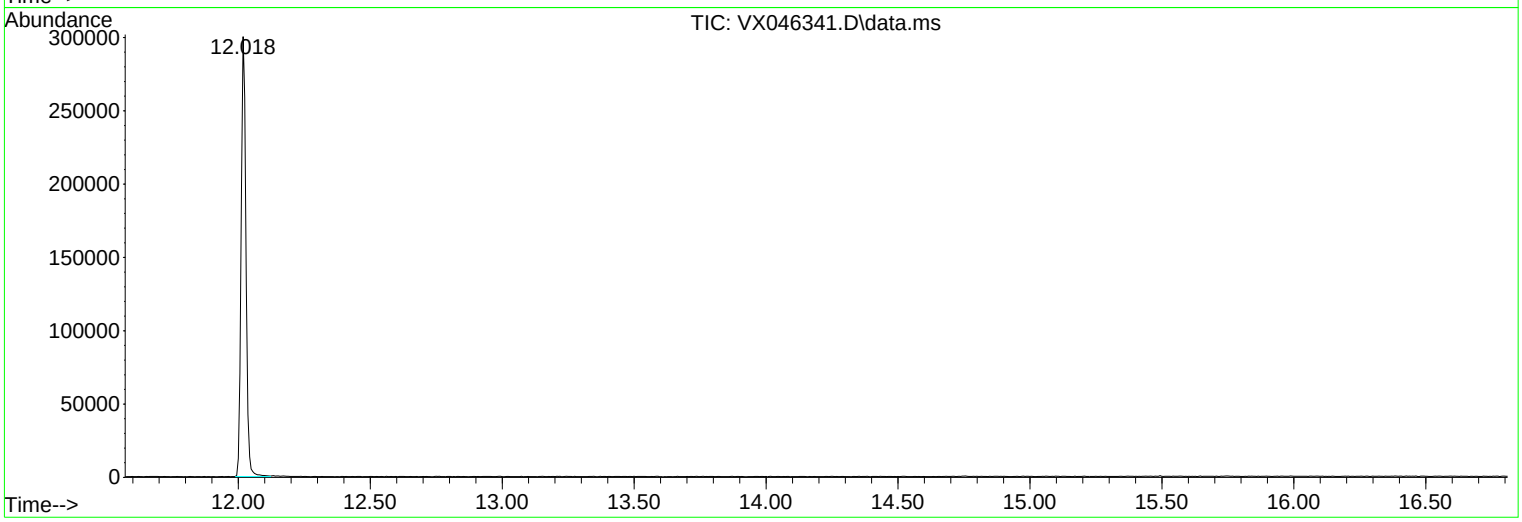
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-GW-460-462

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046341.D
Acq On : 23 May 2025 13:43
Operator : JC/MD
Sample : Q2118-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-GW-460-462

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046341.D
Acq On : 23 May 2025 13:43
Operator : JC/MD
Sample : Q2118-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-GW-460-462

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	05/21/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/22/25
Client Sample ID:	BP-VPB-182-GW-480-482	SDG No.:	Q2118
Lab Sample ID:	Q2118-06	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046345.D	1		05/23/25 15:16	VX052325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.23	0.75	1.00	ug/L
67-64-1	Acetone	3.00	J	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.19	0.75	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	05/21/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/22/25
Client Sample ID:	BP-VPB-182-GW-480-482	SDG No.:	Q2118
Lab Sample ID:	Q2118-06	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046345.D	1		05/23/25 15:16	VX052325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	53.3		81 - 118		107%	SPK: 50
1868-53-7	Dibromofluoromethane	50.7		80 - 119		101%	SPK: 50
2037-26-5	Toluene-d8	50.8		89 - 112		102%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.7		85 - 114		103%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	69300	5.55				
540-36-3	1,4-Difluorobenzene	137000	6.757				
3114-55-4	Chlorobenzene-d5	129000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	55200	12.018				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D					

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	05/21/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/22/25
Client Sample ID:	BP-VPB-182-GW-480-482	SDG No.:	Q2118
Lab Sample ID:	Q2118-06	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046345.D	1		05/23/25 15:16	VX052325

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

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046345.D
Acq On : 23 May 2025 15:16
Operator : JC/MD
Sample : Q2118-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-GW-480-482

Quant Time: May 23 23:03:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

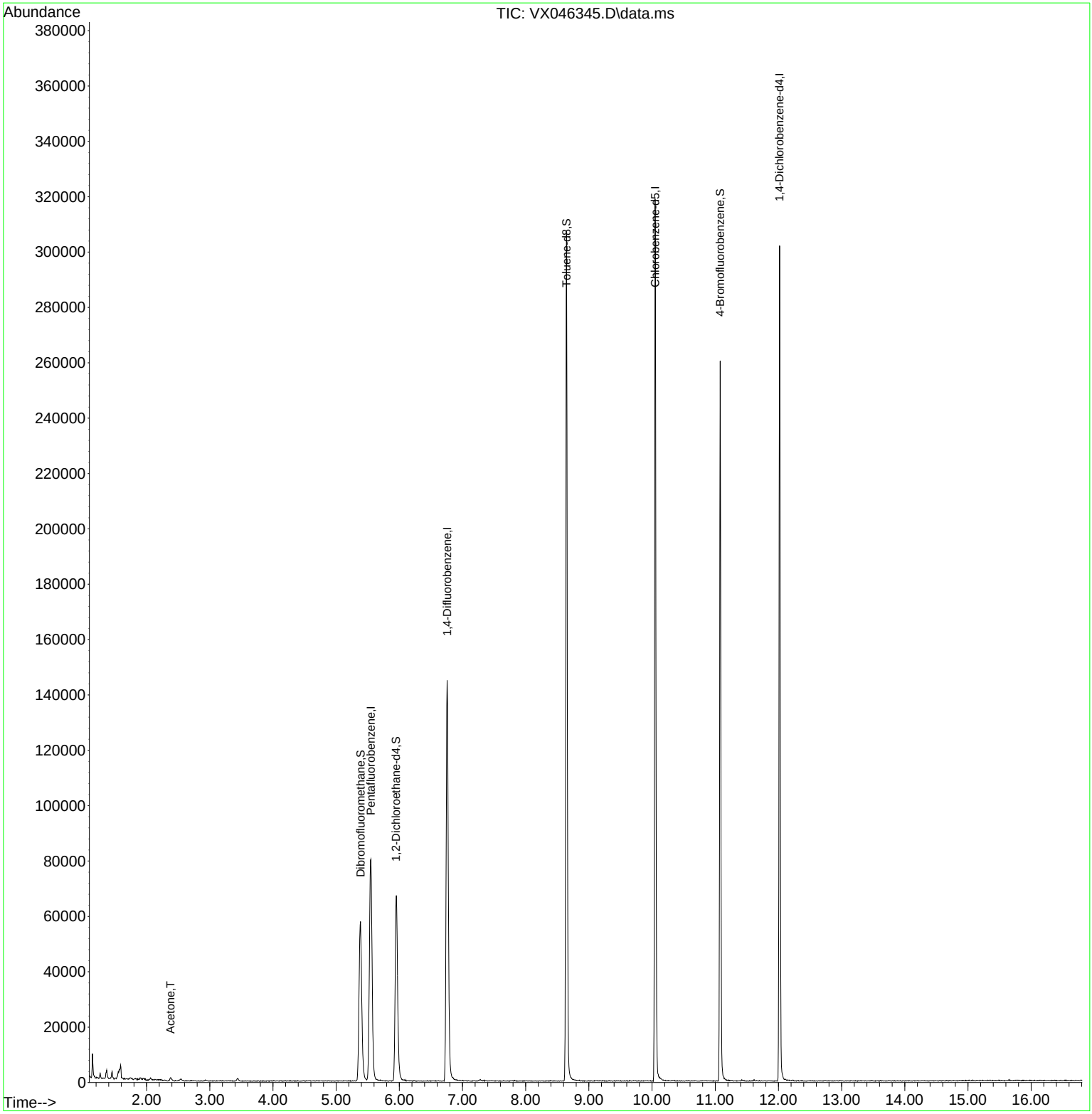
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	69269	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	136686	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	129107	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	55196	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	68882	53.339	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 106.680%			
35) Dibromofluoromethane	5.385	113	49943	50.740	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.480%			
50) Toluene-d8	8.647	98	172980	50.776	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.560%			
62) 4-Bromofluorobenzene	11.079	95	67516	51.666	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 103.340%			
Target Compounds						Qvalue
16) Acetone	2.380	43	1529	2.953	ug/l	96

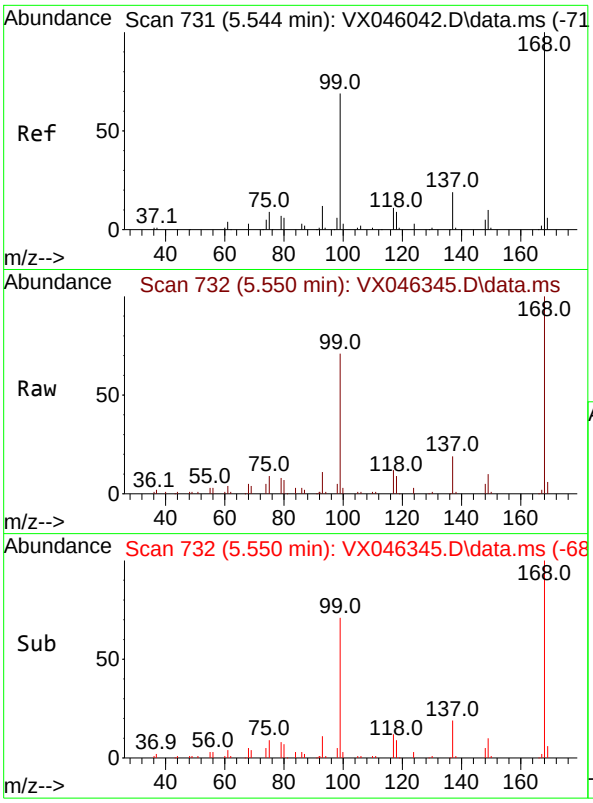
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046345.D
Acq On : 23 May 2025 15:16
Operator : JC/MD
Sample : Q2118-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-GW-480-482

Quant Time: May 23 23:03:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration



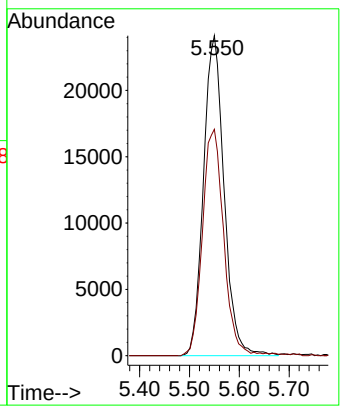


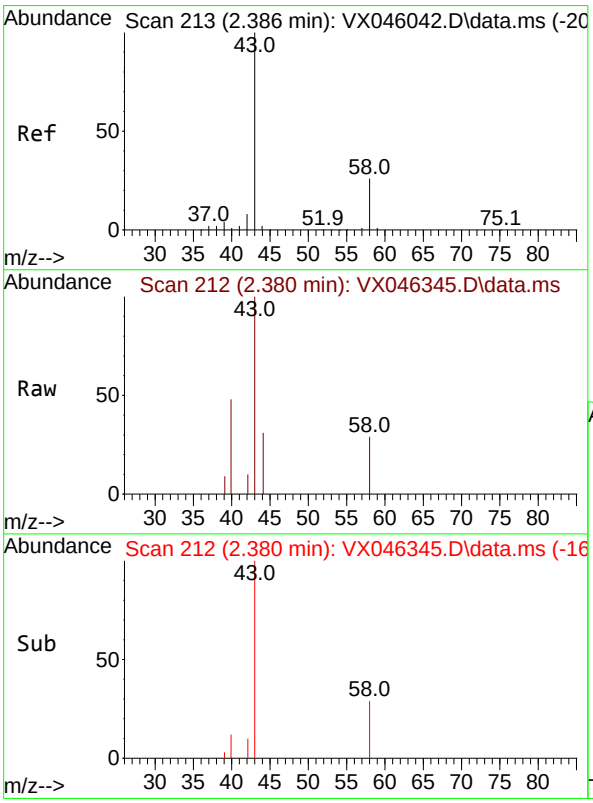
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX046345.D
Acq: 23 May 2025 15:16

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-GW-480-482

Tgt Ion:168 Resp: 69269

Ion	Ratio	Lower	Upper
168	100		
99	70.8	54.9	82.3

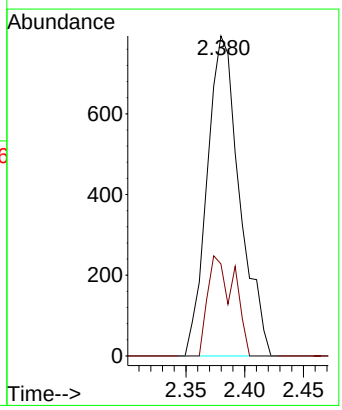


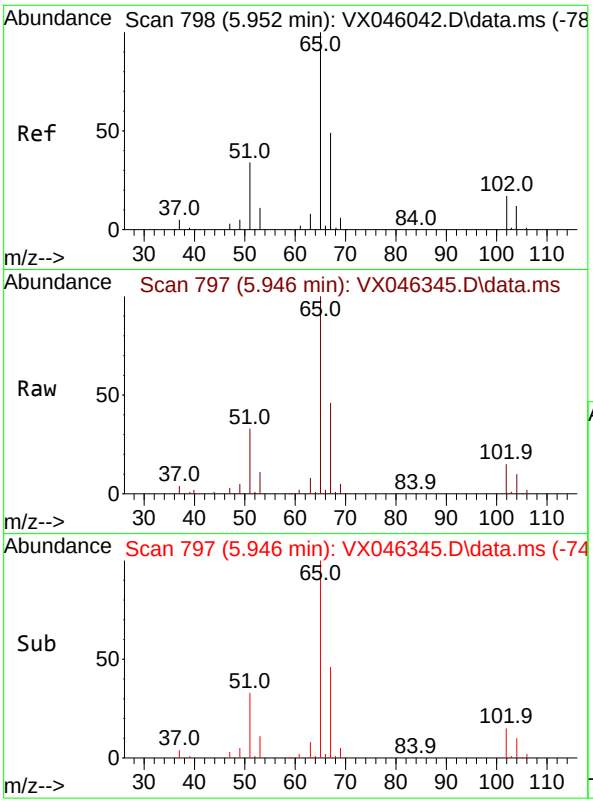


#16
Acetone
Concen: 2.953 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX046345.D
Acq: 23 May 2025 15:16

Tgt Ion: 43 Resp: 1529

Ion	Ratio	Lower	Upper
43	100		
58	28.8	21.2	31.8



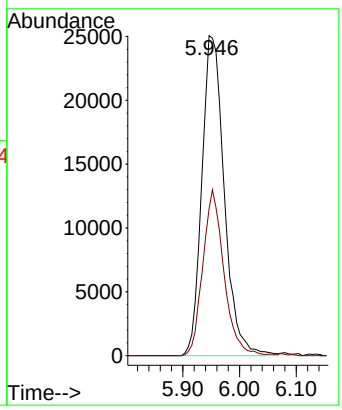


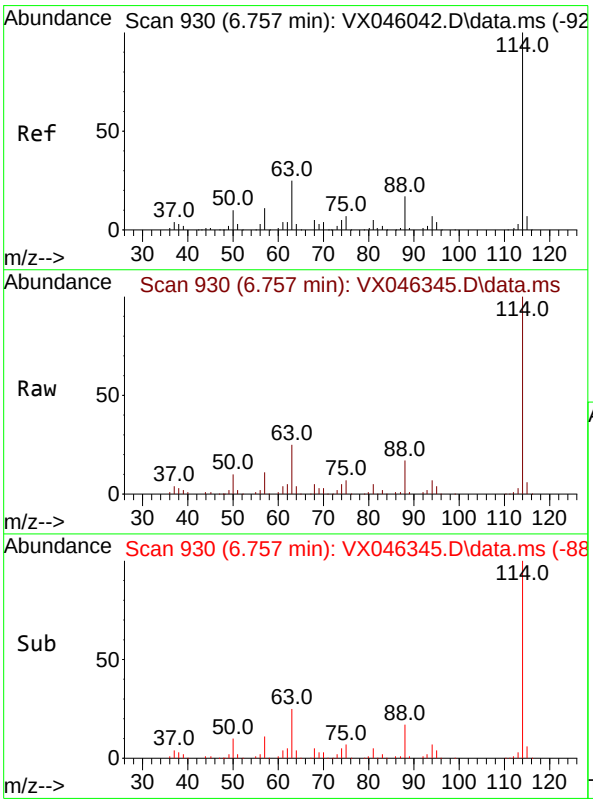
#33
1,2-Dichloroethane-d4
Concen: 53.339 ug/l
RT: 5.946 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX046345.D
Acq: 23 May 2025 15:16

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-GW-480-482

Tgt Ion: 65 Resp: 68882

Ion	Ratio	Lower	Upper
65	100		
67	48.7	0.0	99.0

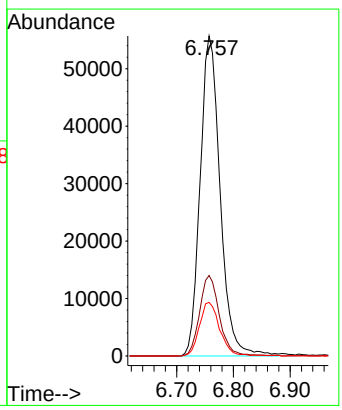


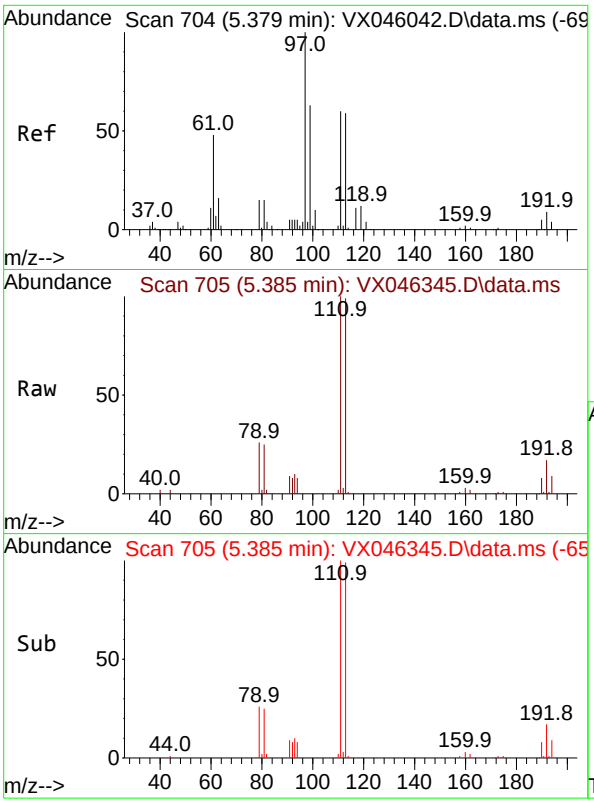


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX046345.D
Acq: 23 May 2025 15:16

Tgt Ion:114 Resp: 136686

Ion	Ratio	Lower	Upper
114	100		
63	25.1	0.0	49.2
88	16.7	0.0	33.6



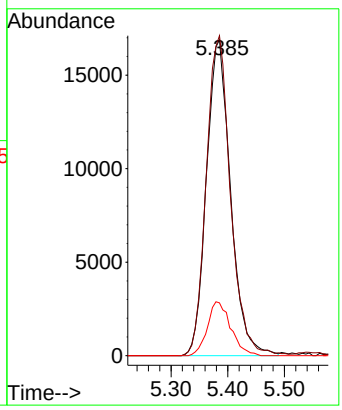


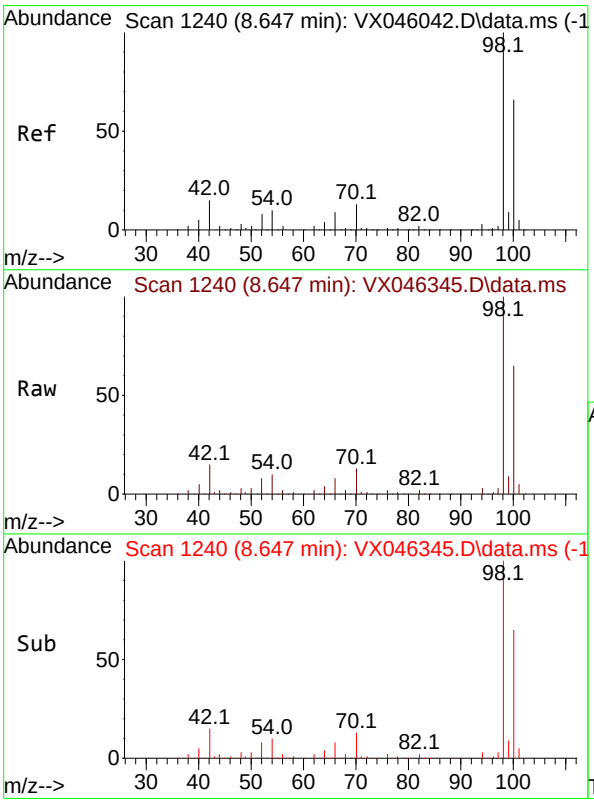
#35
Dibromofluoromethane
Concen: 50.740 ug/l
RT: 5.385 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX046345.D
Acq: 23 May 2025 15:16

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-GW-480-482

Tgt Ion:113 Resp: 49943

Ion	Ratio	Lower	Upper
113	100		
111	101.8	83.1	124.7
192	16.6	13.3	19.9

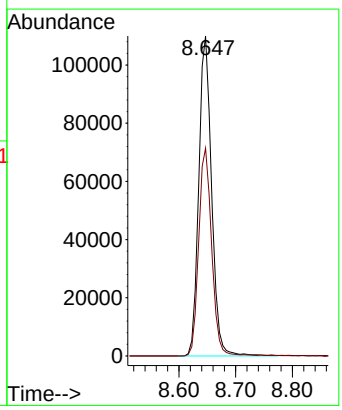


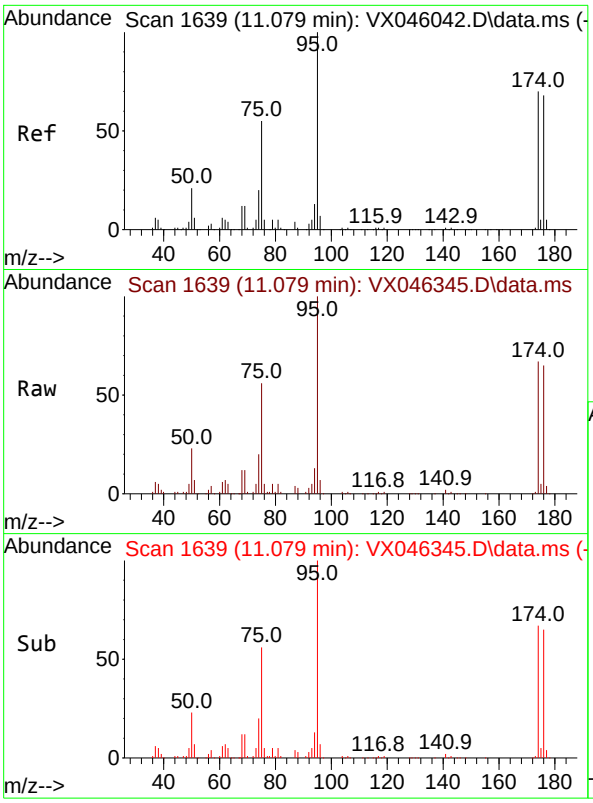


#50
Toluene-d8
Concen: 50.776 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX046345.D
Acq: 23 May 2025 15:16

Tgt Ion: 98 Resp: 172980

Ion	Ratio	Lower	Upper
98	100		
100	65.4	53.5	80.3



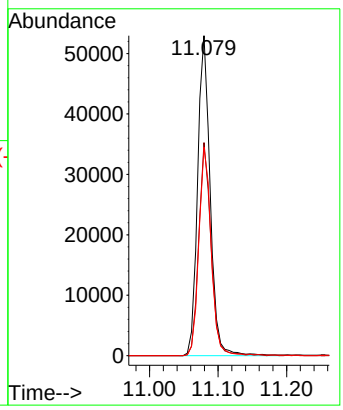


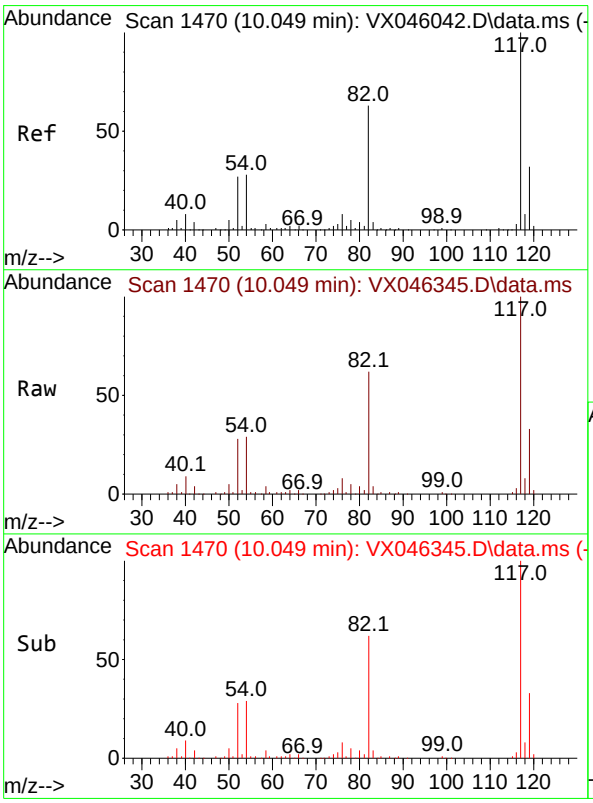
#62
4-Bromofluorobenzene
Concen: 51.666 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046345.D
Acq: 23 May 2025 15:16

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-GW-480-482

Tgt Ion: 95 Resp: 67516

Ion	Ratio	Lower	Upper
95	100		
174	65.4	0.0	135.8
176	64.3	0.0	131.4

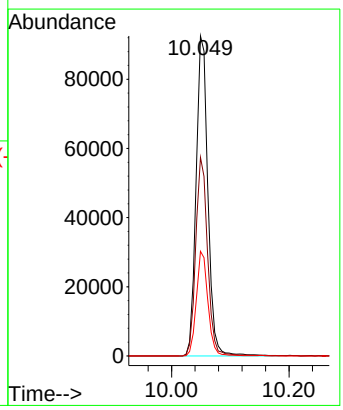


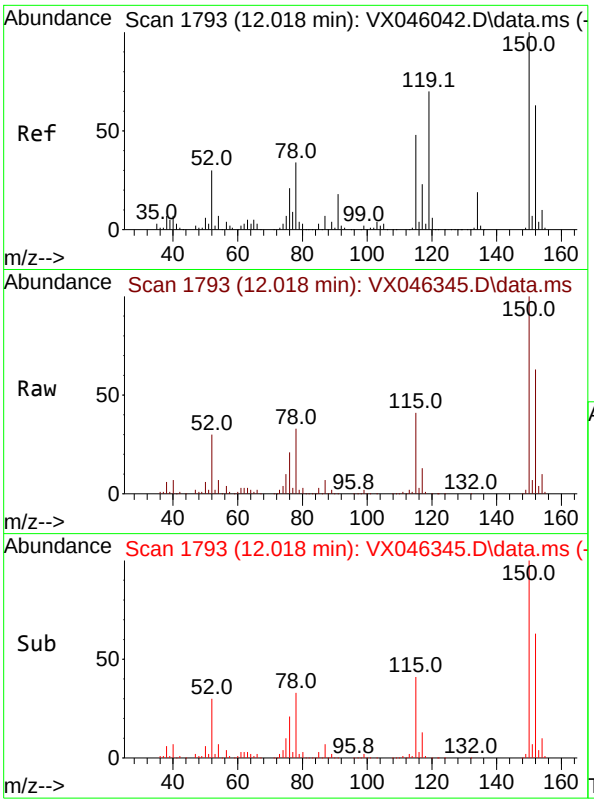


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX046345.D
Acq: 23 May 2025 15:16

Tgt Ion:117 Resp: 129107

Ion	Ratio	Lower	Upper
117	100		
82	62.1	50.6	76.0
119	32.7	25.8	38.6



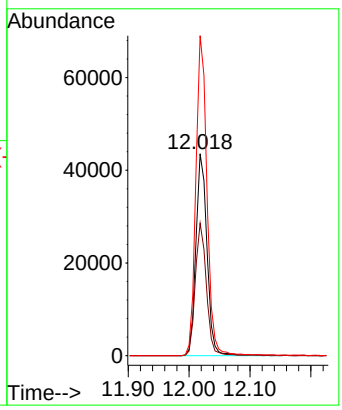


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046345.D
Acq: 23 May 2025 15:16

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-GW-480-482

Tgt Ion:152 Resp: 55196

Ion	Ratio	Lower	Upper
152	100		
115	65.2	46.9	140.7
150	158.9	0.0	351.0



Sample Results: **VX046345.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046345.D
Acq On : 23 May 2025 15:16
Operator : JC/MD
Sample : Q2118-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-GW-480-482

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Title : SW846 8260

Signal : TIC: VX046345.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.142	6	9	16	rVB	8851	9210	1.89%	0.356%
2	1.587	77	82	84	rVB4	4506	7427	1.52%	0.287%
3	5.385	693	705	721	rBV	57666	170912	34.98%	6.612%
4	5.550	721	732	746	rVV	79774	232479	47.58%	8.994%
5	5.952	789	798	814	rBV	66924	179037	36.64%	6.927%
6	6.757	922	930	944	rBV	144799	350066	71.65%	13.543%
7	8.647	1233	1240	1257	rBV	307080	488593	100.00%	18.903%
8	10.049	1465	1470	1481	rBV	318824	441127	90.29%	17.066%
9	11.079	1634	1639	1657	rBV	260164	328951	67.33%	12.726%
10	12.018	1788	1793	1805	rBV	301763	376975	77.16%	14.584%

Sum of corrected areas: 2584777

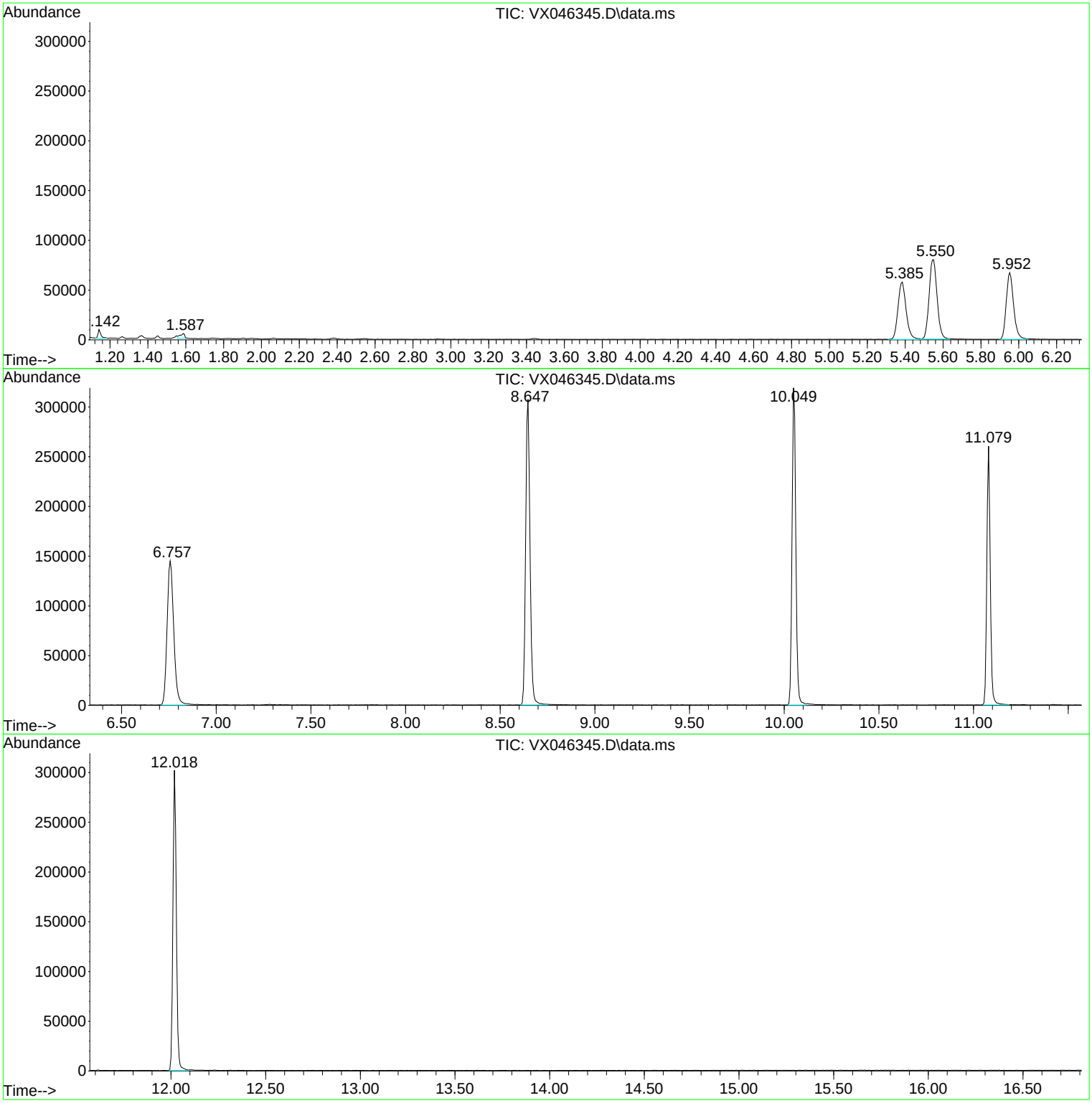
Sample Results: **VX046345.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046345.D
Acq On : 23 May 2025 15:16
Operator : JC/MD
Sample : Q2118-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-GW-480-482

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046345.D
Acq On : 23 May 2025 15:16
Operator : JC/MD
Sample : Q2118-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-GW-480-482

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046345.D
Acq On : 23 May 2025 15:16
Operator : JC/MD
Sample : Q2118-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-GW-480-482

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	05/22/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/22/25
Client Sample ID:	BP-VPB-182-GW-520-522	SDG No.:	Q2118
Lab Sample ID:	Q2118-08	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046346.D	1		05/23/25 15:39	VX052325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	0.79	J	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.23	0.75	1.00	ug/L
67-64-1	Acetone	2.40	J	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.19	0.75	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	05/22/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/22/25
Client Sample ID:	BP-VPB-182-GW-520-522	SDG No.:	Q2118
Lab Sample ID:	Q2118-08	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046346.D	1		05/23/25 15:39	VX052325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	53.3		81 - 118		107%	SPK: 50
1868-53-7	Dibromofluoromethane	51.0		80 - 119		102%	SPK: 50
2037-26-5	Toluene-d8	50.4		89 - 112		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.0		85 - 114		100%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	67300	5.55				
540-36-3	1,4-Difluorobenzene	135000	6.757				
3114-55-4	Chlorobenzene-d5	127000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	52500	12.018				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D					

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	05/22/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/22/25
Client Sample ID:	BP-VPB-182-GW-520-522	SDG No.:	Q2118
Lab Sample ID:	Q2118-08	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046346.D	1		05/23/25 15:39	VX052325

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

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046346.D
Acq On : 23 May 2025 15:39
Operator : JC/MD
Sample : Q2118-08
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-GW-520-522

Quant Time: May 23 23:03:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

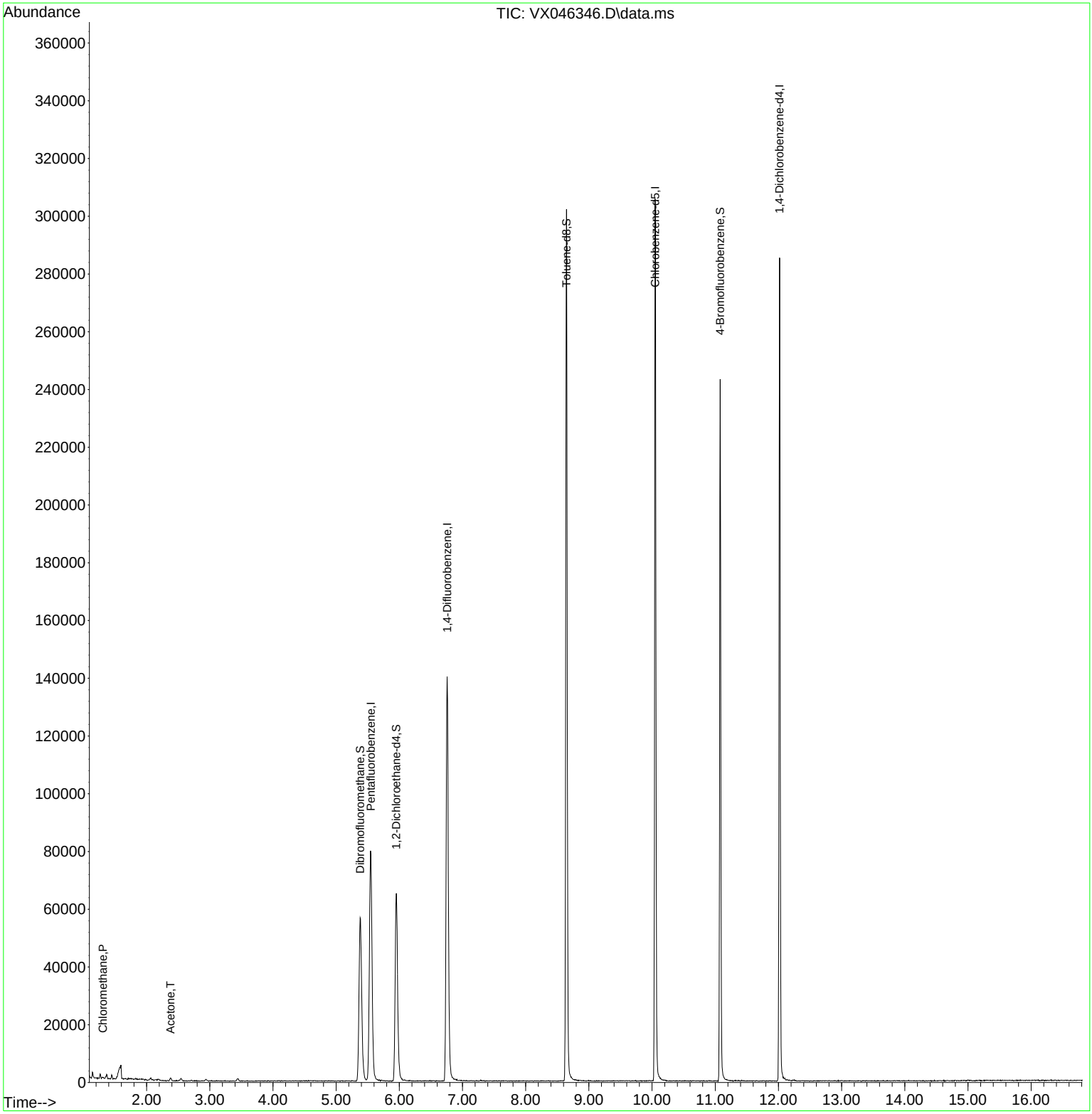
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	67340	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	134921	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	127330	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	52504	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	66856	53.253	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 106.500%			
35) Dibromofluoromethane	5.379	113	49552	51.002	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.000%			
50) Toluene-d8	8.647	98	169340	50.358	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.720%			
62) 4-Bromofluorobenzene	11.079	95	64477	49.986	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 99.980%			
Target Compounds						Qvalue
3) Chloromethane	1.307	50	785	0.785	ug/l #	85
16) Acetone	2.380	43	1203	2.390	ug/l #	82

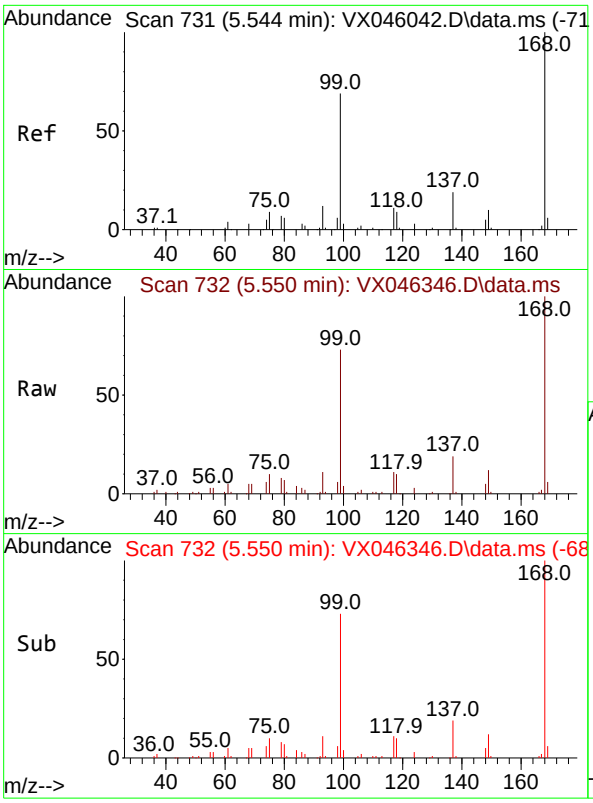
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046346.D
Acq On : 23 May 2025 15:39
Operator : JC/MD
Sample : Q2118-08
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-GW-520-522

Quant Time: May 23 23:03:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration



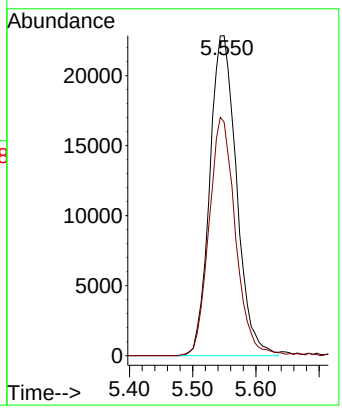


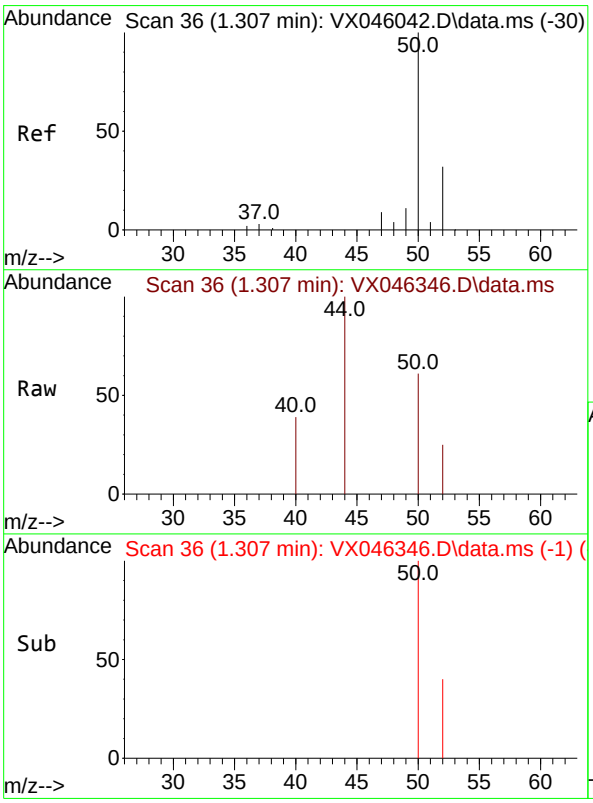
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX046346.D
Acq: 23 May 2025 15:39

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-GW-520-522

Tgt Ion:168 Resp: 67340

Ion	Ratio	Lower	Upper
168	100		
99	73.0	54.9	82.3

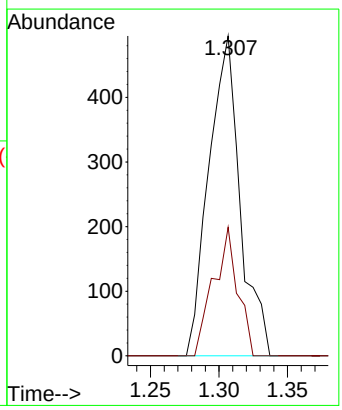


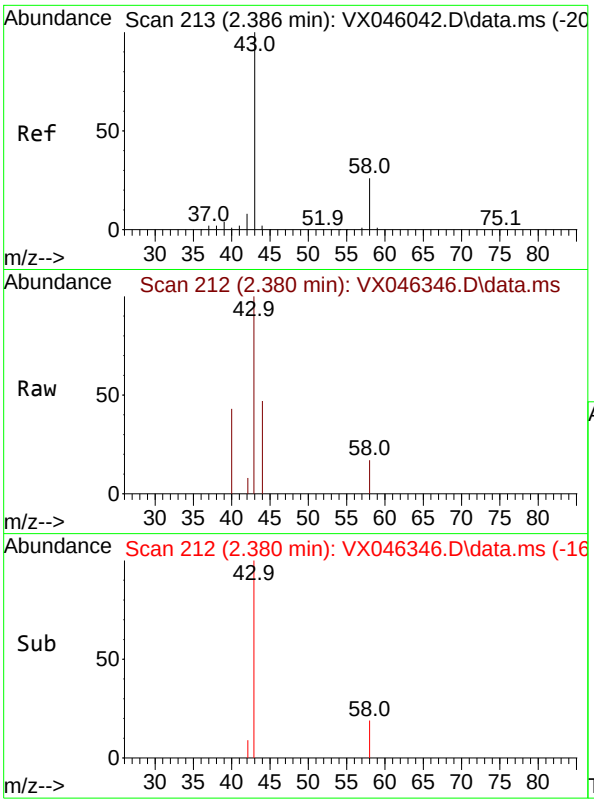


#3
Chloromethane
Concen: 0.785 ug/l
RT: 1.307 min Scan# 36
Delta R.T. -0.000 min
Lab File: VX046346.D
Acq: 23 May 2025 15:39

Tgt Ion: 50 Resp: 785

Ion	Ratio	Lower	Upper
50	100		
52	40.2	25.4	38.2#



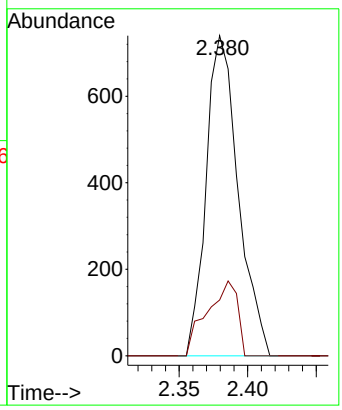


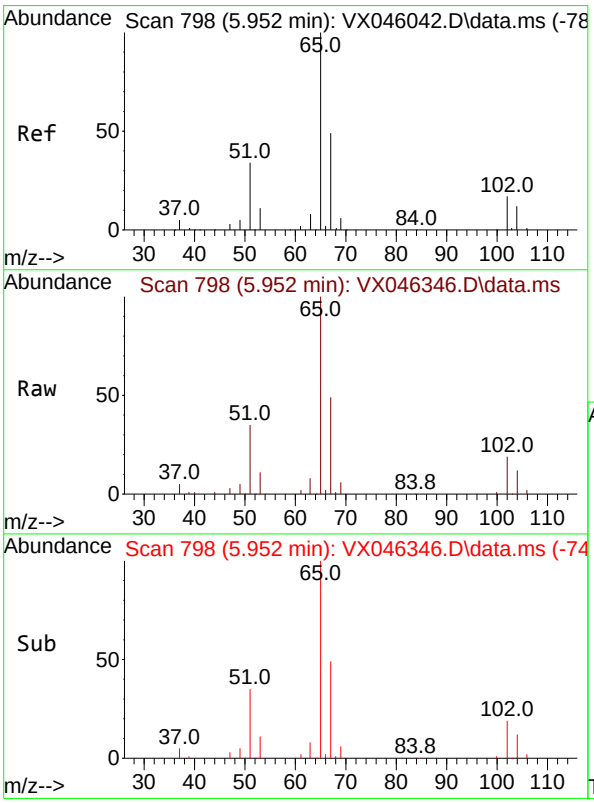
#16
Acetone
Concen: 2.390 ug/l
RT: 2.380 min Scan# 21
Delta R.T. -0.006 min
Lab File: VX046346.D
Acq: 23 May 2025 15:39

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-GW-520-522

Tgt Ion: 43 Resp: 1203

Ion	Ratio	Lower	Upper
43	100		
58	17.4	21.2	31.8#

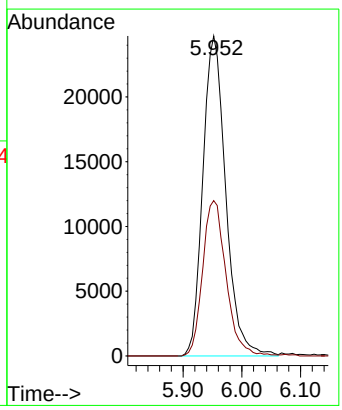


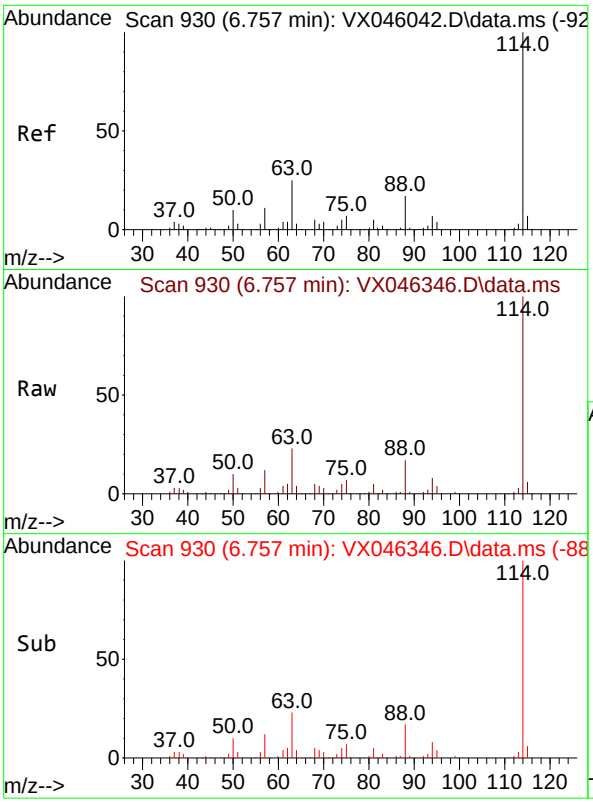


#33
1,2-Dichloroethane-d4
Concen: 53.253 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.000 min
Lab File: VX046346.D
Acq: 23 May 2025 15:39

Tgt Ion: 65 Resp: 66856

Ion	Ratio	Lower	Upper
65	100		
67	49.7	0.0	99.0



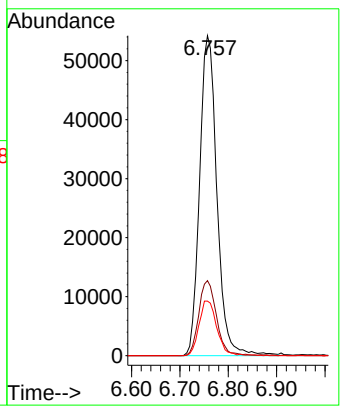


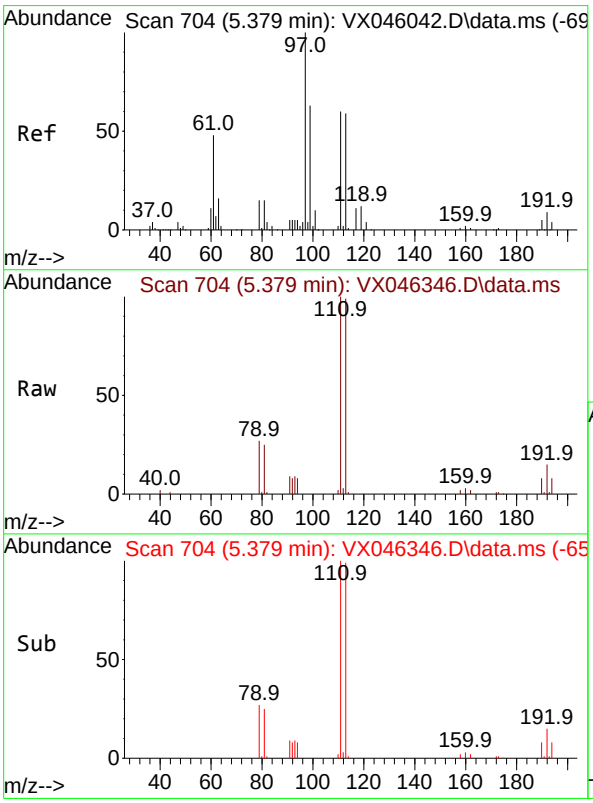
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX046346.D
Acq: 23 May 2025 15:39

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-GW-520-522

Tgt Ion:114 Resp: 134921

Ion	Ratio	Lower	Upper
114	100		
63	23.4	0.0	49.2
88	17.0	0.0	33.6

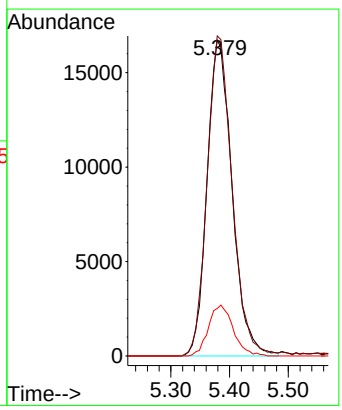


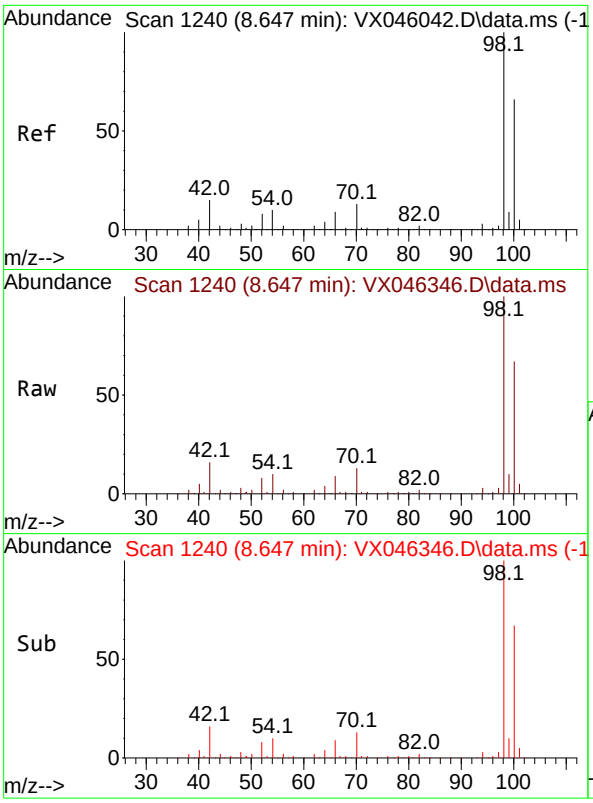


#35
Dibromofluoromethane
Concen: 51.002 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.000 min
Lab File: VX046346.D
Acq: 23 May 2025 15:39

Tgt Ion:113 Resp: 49552

Ion	Ratio	Lower	Upper
113	100		
111	101.1	83.1	124.7
192	15.9	13.3	19.9



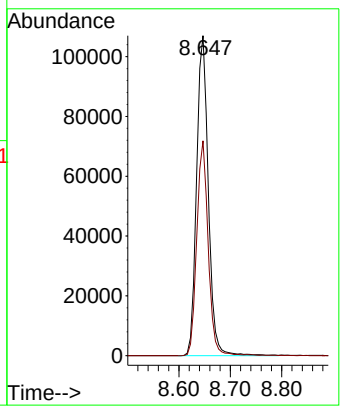


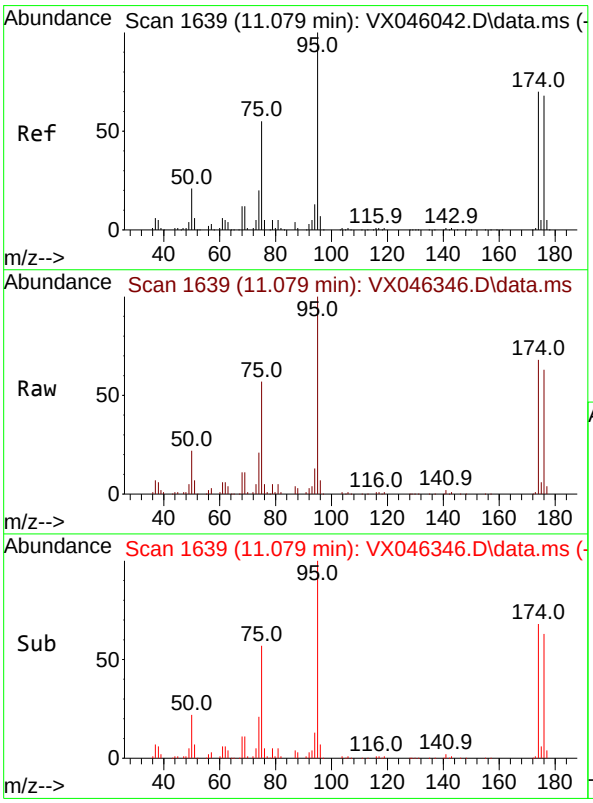
#50
Toluene-d8
Concen: 50.358 ug/l
RT: 8.647 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046346.D
Acq: 23 May 2025 15:39

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-GW-520-522

Tgt Ion: 98 Resp: 169340

Ion	Ratio	Lower	Upper
98	100		
100	65.0	53.5	80.3

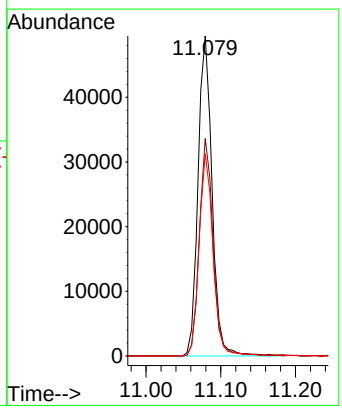


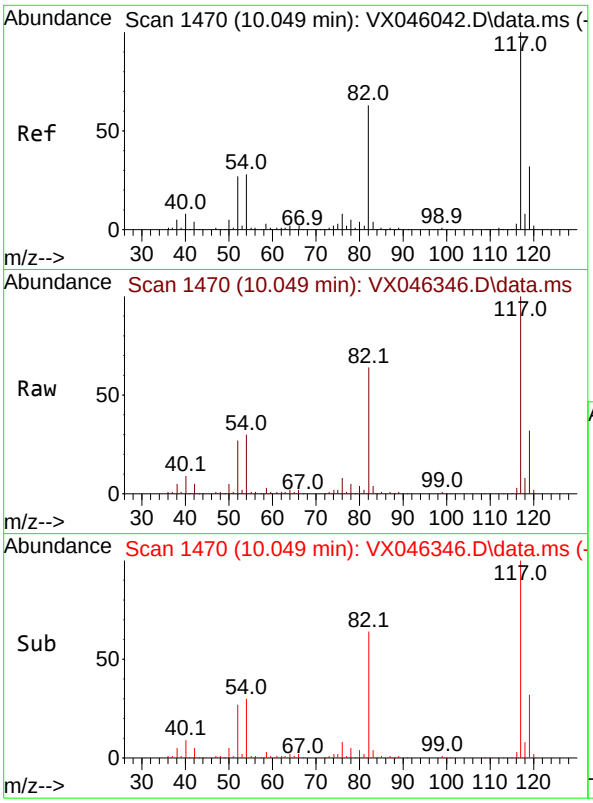


#62
4-Bromofluorobenzene
Concen: 49.986 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX046346.D
Acq: 23 May 2025 15:39

Tgt Ion: 95 Resp: 64477

Ion	Ratio	Lower	Upper
95	100		
174	66.4	0.0	135.8
176	62.7	0.0	131.4



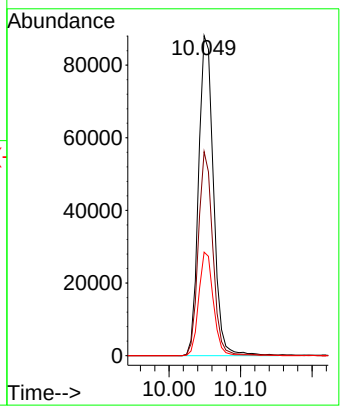


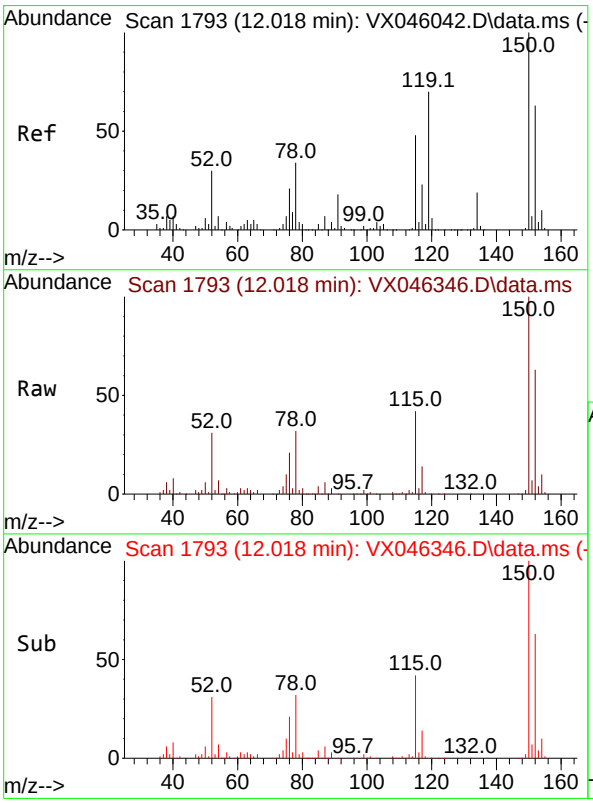
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX046346.D
Acq: 23 May 2025 15:39

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-GW-520-522

Tgt Ion:117 Resp: 127330

Ion	Ratio	Lower	Upper
117	100		
82	63.8	50.6	76.0
119	32.4	25.8	38.6

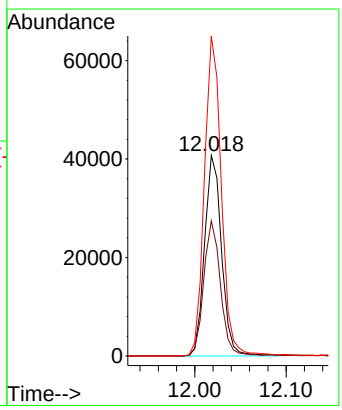




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX046346.D
Acq: 23 May 2025 15:39

Tgt Ion:152 Resp: 52504

Ion	Ratio	Lower	Upper
152	100		
115	66.6	46.9	140.7
150	159.4	0.0	351.0



Sample Results: **VX046346.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046346.D
Acq On : 23 May 2025 15:39
Operator : JC/MD
Sample : Q2118-08
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-GW-520-522

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Title : SW846 8260

Signal : TIC: VX046346.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.575	69	80	82	rBV4	4153	10669	2.24%	0.425%
2	5.379	693	704	720	rBV	56575	168070	35.26%	6.691%
3	5.544	720	731	747	rVV	79417	227643	47.76%	9.062%
4	5.952	789	798	815	rBV	64901	175299	36.78%	6.978%
5	6.757	922	930	943	rBV	139969	342281	71.81%	13.626%
6	8.647	1234	1240	1261	rBV	301676	476674	100.00%	18.976%
7	10.049	1465	1470	1483	rBV	305466	434006	91.05%	17.277%
8	11.079	1634	1639	1653	rBV	243098	315245	66.13%	12.550%
9	12.018	1788	1793	1804	rBV	284944	362113	75.97%	14.415%

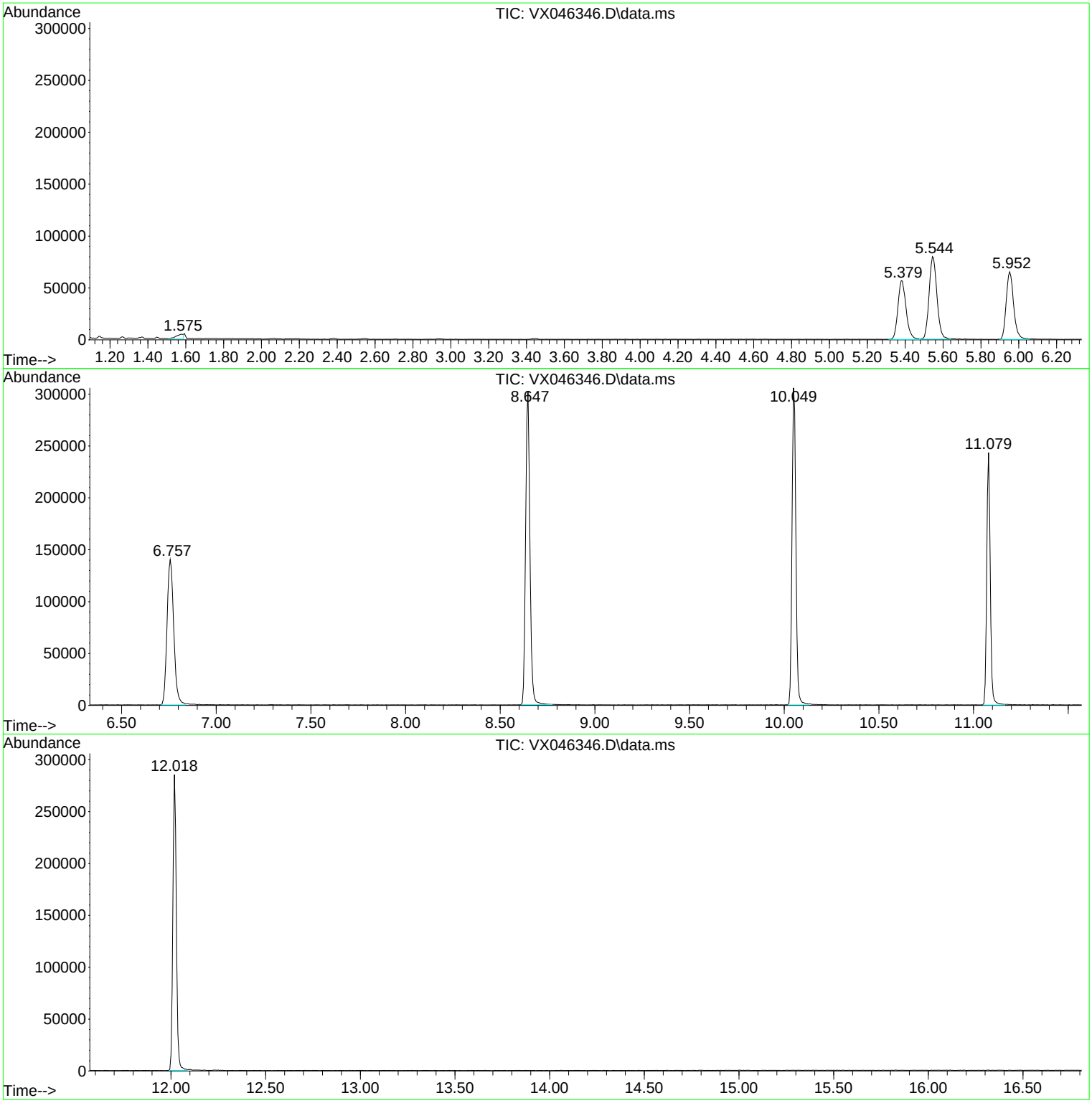
Sum of corrected areas: 2512000

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046346.D
Acq On : 23 May 2025 15:39
Operator : JC/MD
Sample : Q2118-08
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-GW-520-522

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046346.D
Acq On : 23 May 2025 15:39
Operator : JC/MD
Sample : Q2118-08
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-GW-520-522

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046346.D
Acq On : 23 May 2025 15:39
Operator : JC/MD
Sample : Q2118-08
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-GW-520-522

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	05/22/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/22/25
Client Sample ID:	BP-VPB-182-GW-540-542	SDG No.:	Q2118
Lab Sample ID:	Q2118-09	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046347.D	1		05/23/25 16:03	VX052325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.23	0.75	1.00	ug/L
67-64-1	Acetone	1.80	J	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.19	0.75	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L

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Fax : 908 789 8922

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	05/22/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/22/25
Client Sample ID:	BP-VPB-182-GW-540-542	SDG No.:	Q2118
Lab Sample ID:	Q2118-09	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046347.D	1		05/23/25 16:03	VX052325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	53.8		81 - 118		108%	SPK: 50
1868-53-7	Dibromofluoromethane	51.2		80 - 119		102%	SPK: 50
2037-26-5	Toluene-d8	51.1		89 - 112		102%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.3		85 - 114		105%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	64600	5.55				
540-36-3	1,4-Difluorobenzene	127000	6.757				
3114-55-4	Chlorobenzene-d5	123000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	53600	12.018				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D					

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	05/22/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/22/25
Client Sample ID:	BP-VPB-182-GW-540-542	SDG No.:	Q2118
Lab Sample ID:	Q2118-09	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046347.D	1		05/23/25 16:03	VX052325

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

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046347.D
Acq On : 23 May 2025 16:03
Operator : JC/MD
Sample : Q2118-09
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-GW-540-542

Quant Time: May 23 23:04:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

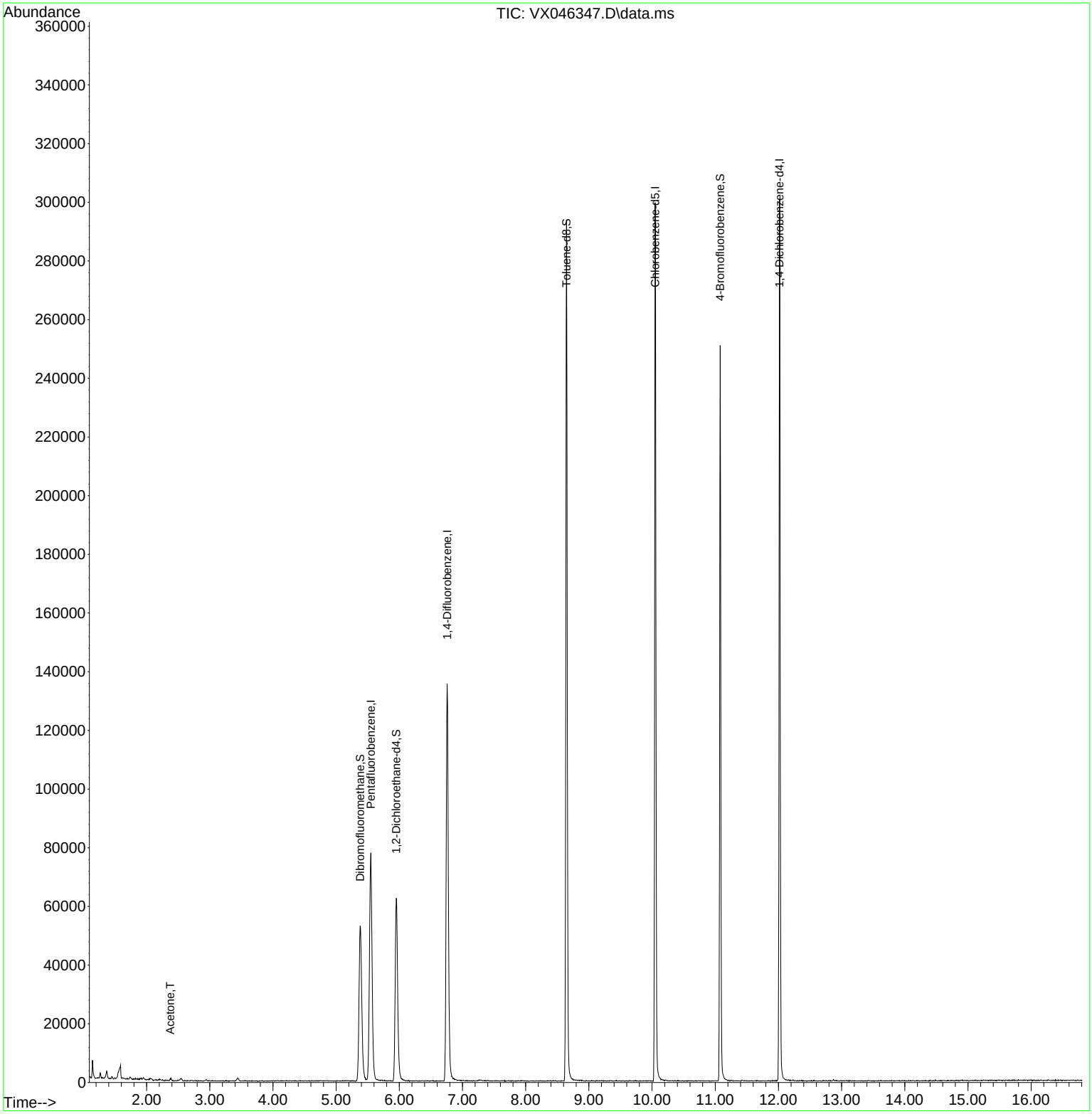
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	64643	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	127425	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	122773	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	53639	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	64874	53.831	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 107.660%			
35) Dibromofluoromethane	5.379	113	46987	51.207	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.420%			
50) Toluene-d8	8.647	98	162398	51.134	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.260%			
62) 4-Bromofluorobenzene	11.079	95	63673	52.267	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 104.540%			
Target Compounds						Qvalue
16) Acetone	2.373	43	850	1.759	ug/l	96

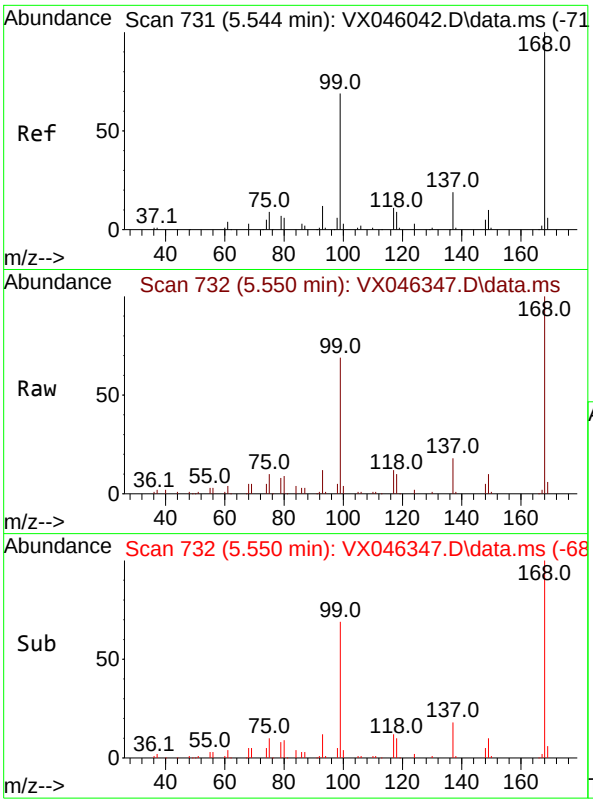
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046347.D
Acq On : 23 May 2025 16:03
Operator : JC/MD
Sample : Q2118-09
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-GW-540-542

Quant Time: May 23 23:04:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration



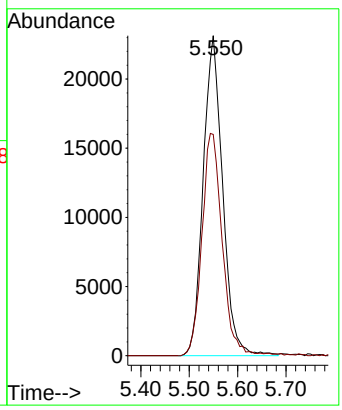


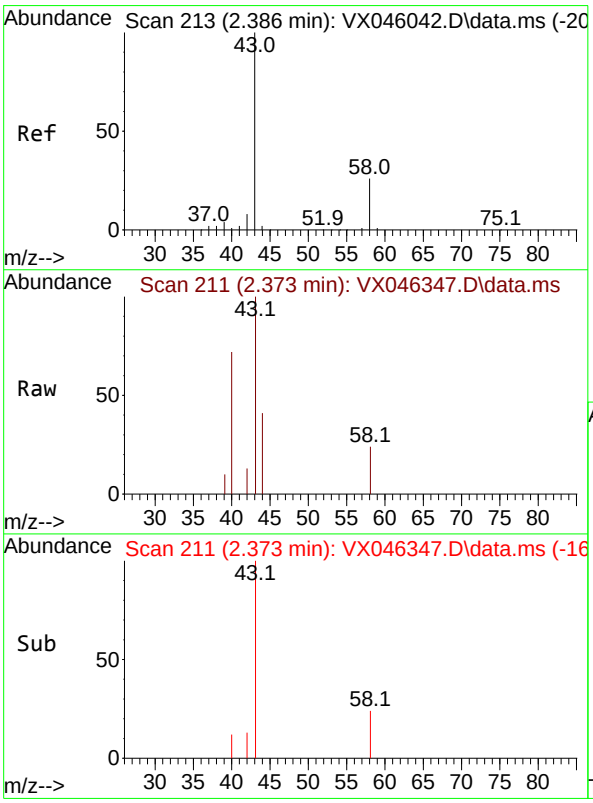
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX046347.D
Acq: 23 May 2025 16:03

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-GW-540-542

Tgt Ion:168 Resp: 64643

Ion	Ratio	Lower	Upper
168	100		
99	69.1	54.9	82.3

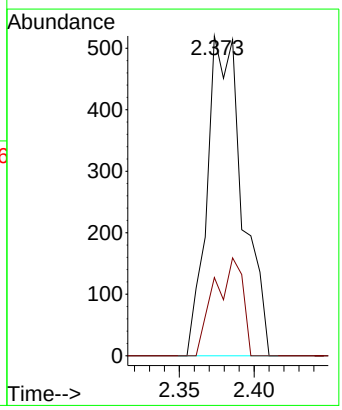


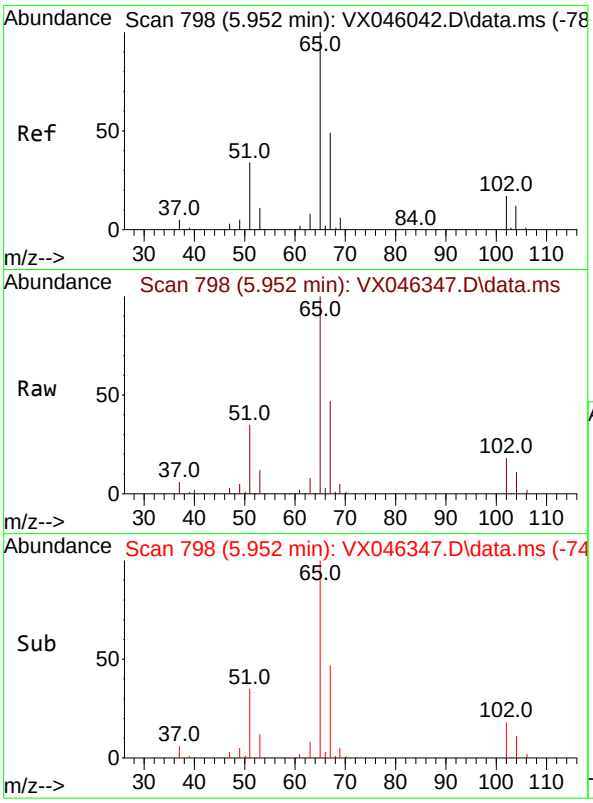


#16
Acetone
Concen: 1.759 ug/l
RT: 2.373 min Scan# 211
Delta R.T. -0.012 min
Lab File: VX046347.D
Acq: 23 May 2025 16:03

Tgt Ion: 43 Resp: 850

Ion	Ratio	Lower	Upper
43	100		
58	24.4	21.2	31.8



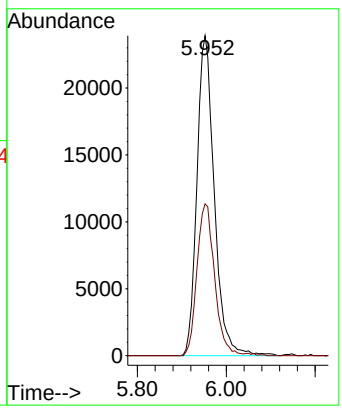


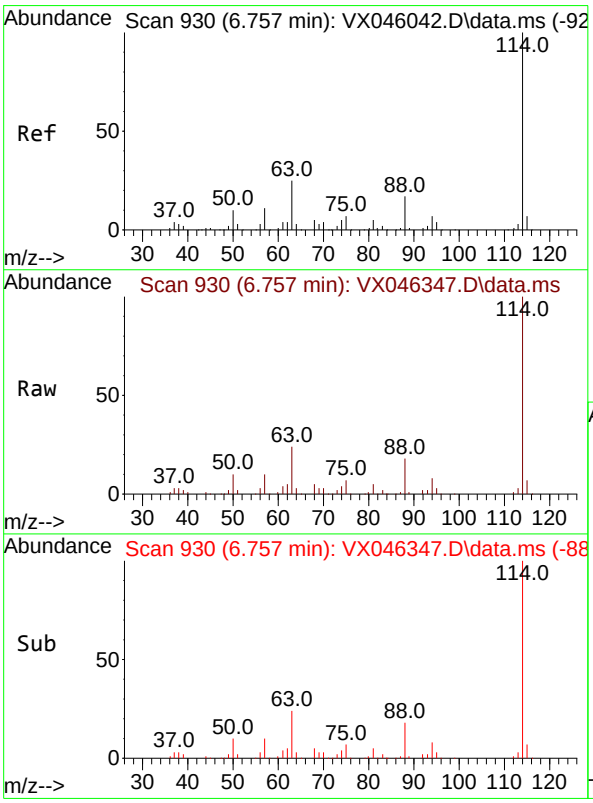
#33
1,2-Dichloroethane-d4
Concen: 53.831 ug/l
RT: 5.952 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX046347.D
Acq: 23 May 2025 16:03

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-GW-540-542

Tgt Ion: 65 Resp: 64874

Ion	Ratio	Lower	Upper
65	100		
67	48.2	0.0	99.0

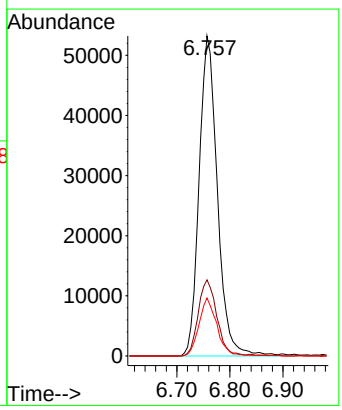


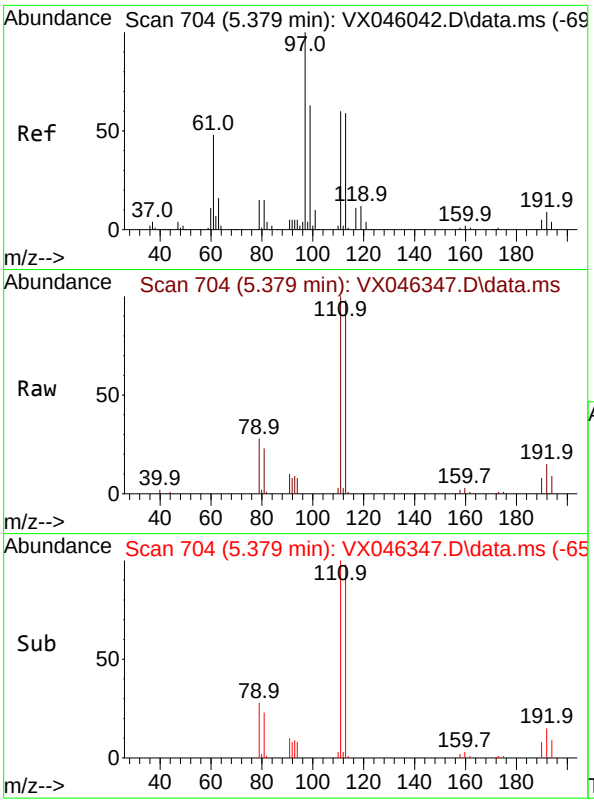


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX046347.D
Acq: 23 May 2025 16:03

Tgt Ion:114 Resp: 127425

Ion	Ratio	Lower	Upper
114	100		
63	23.8	0.0	49.2
88	18.1	0.0	33.6



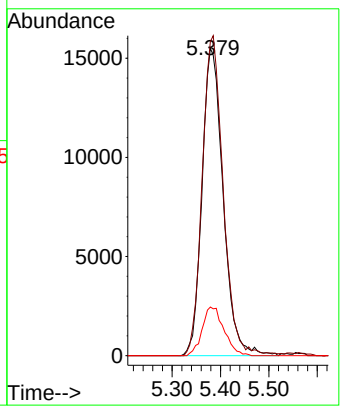


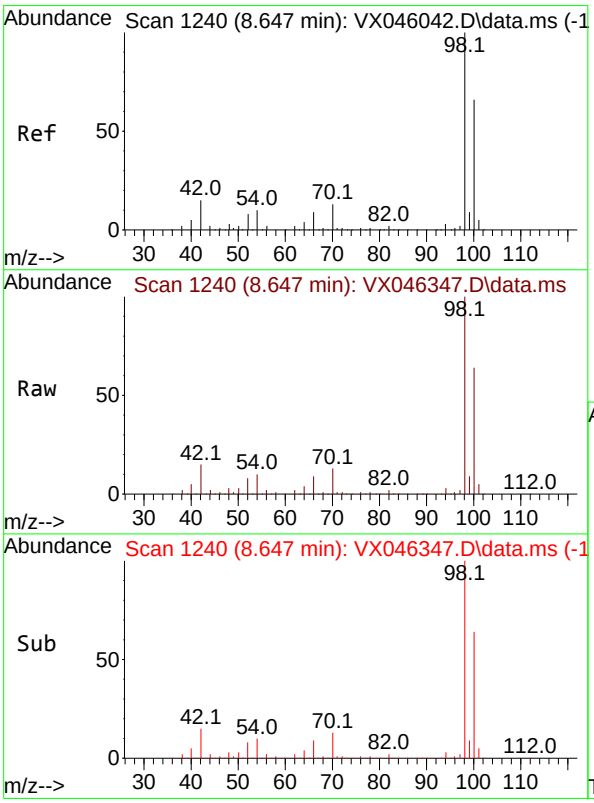
#35
Dibromofluoromethane
Concen: 51.207 ug/l
RT: 5.379 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX046347.D
Acq: 23 May 2025 16:03

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-GW-540-542

Tgt Ion:113 Resp: 46987

Ion	Ratio	Lower	Upper
113	100		
111	103.0	83.1	124.7
192	16.4	13.3	19.9

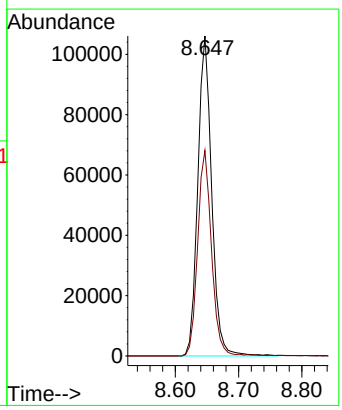


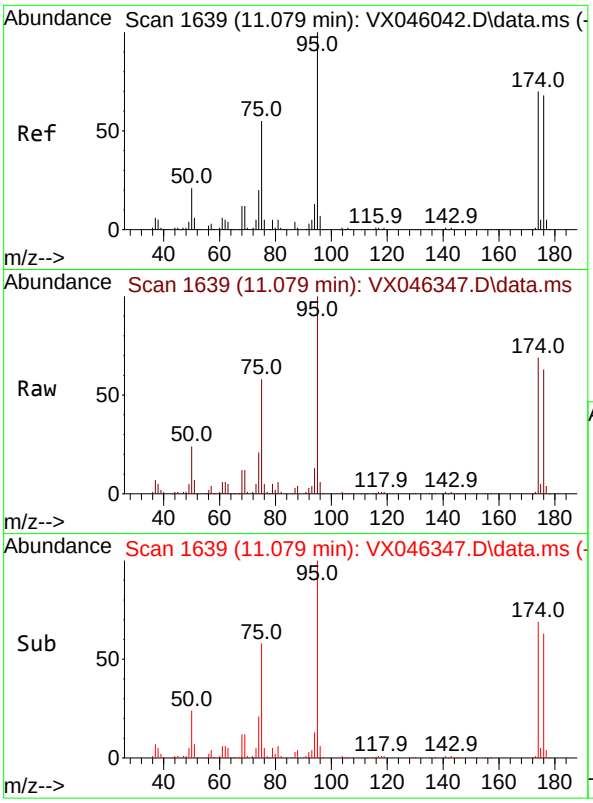


#50
Toluene-d8
Concen: 51.134 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX046347.D
Acq: 23 May 2025 16:03

Tgt Ion: 98 Resp: 162398

Ion	Ratio	Lower	Upper
98	100		
100	64.4	53.5	80.3



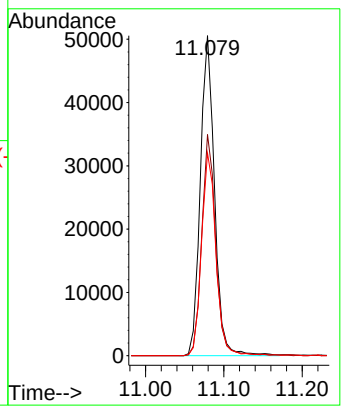


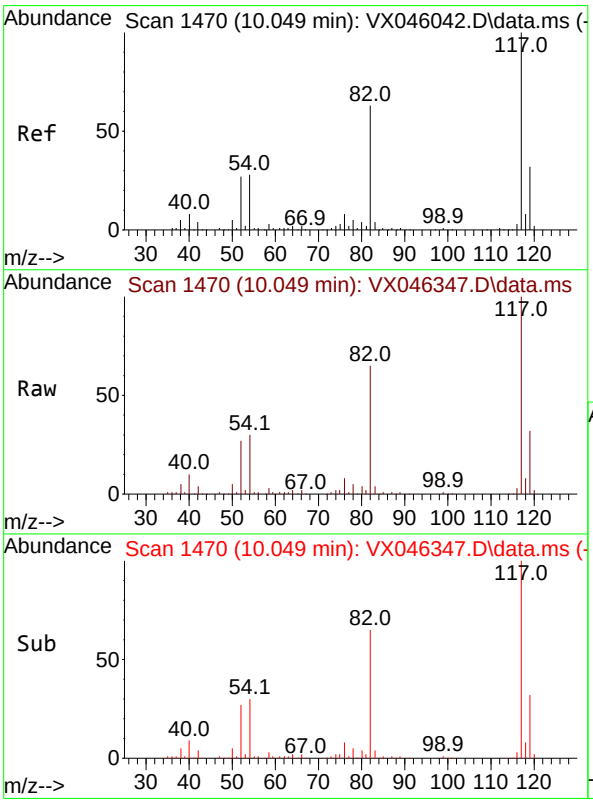
#62
4-Bromofluorobenzene
Concen: 52.267 ug/l
RT: 11.079 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046347.D
Acq: 23 May 2025 16:03

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-GW-540-542

Tgt Ion: 95 Resp: 63673

Ion	Ratio	Lower	Upper
95	100		
174	67.9	0.0	135.8
176	64.3	0.0	131.4

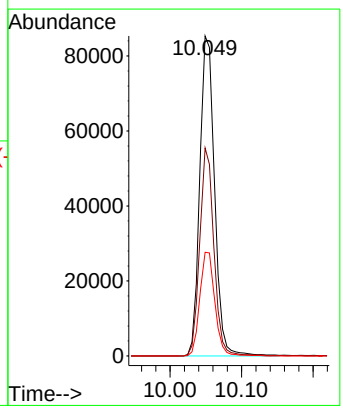


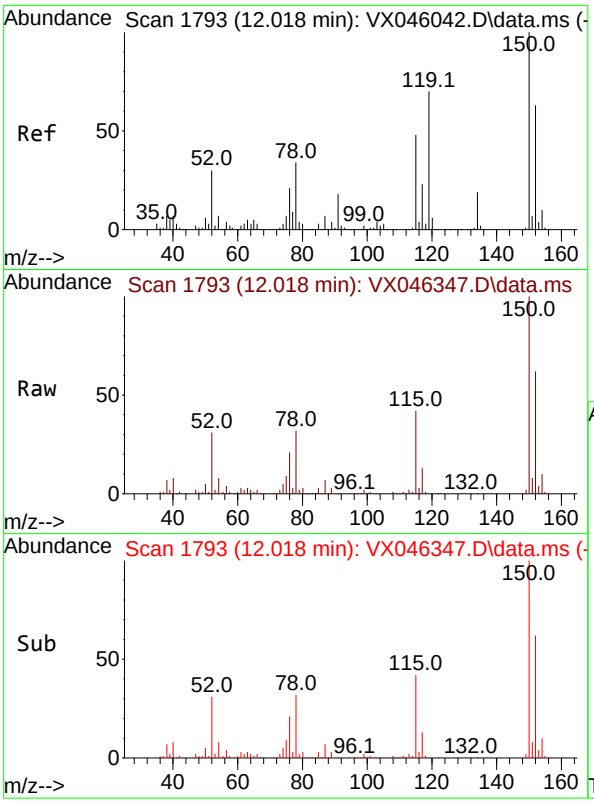


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. -0.000 min
Lab File: VX046347.D
Acq: 23 May 2025 16:03

Tgt Ion:117 Resp: 122773

Ion	Ratio	Lower	Upper
117	100		
82	65.0	50.6	76.0
119	32.4	25.8	38.6



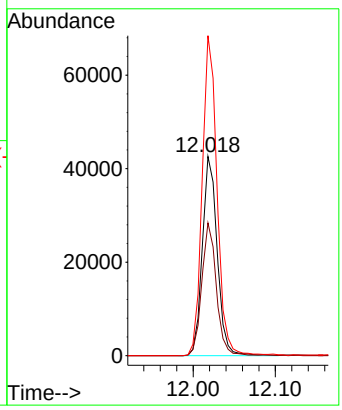


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046347.D
Acq: 23 May 2025 16:03

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-GW-540-542

Tgt Ion:152 Resp: 53639

Ion	Ratio	Lower	Upper
152	100		
115	65.1	46.9	140.7
150	160.4	0.0	351.0



Sample Results: **VX046347.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046347.D
Acq On : 23 May 2025 16:03
Operator : JC/MD
Sample : Q2118-09
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-GW-540-542

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Title : SW846 8260

Signal : TIC: VX046347.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.142	6	9	16	rVB2	6234	6814	1.50%	0.278%
2	1.587	69	82	85	rBV3	4612	10753	2.36%	0.439%
3	5.379	695	704	718	rBV	52803	157688	34.63%	6.434%
4	5.550	721	732	749	rVB	77419	216557	47.55%	8.836%
5	5.952	789	798	817	rBV	62389	169623	37.25%	6.921%
6	6.757	921	930	945	rBV	135447	325911	71.56%	13.298%
7	8.647	1234	1240	1255	rBV	293367	455406	100.00%	18.582%
8	10.049	1465	1470	1485	rBV	299489	422896	92.86%	17.255%
9	11.079	1634	1639	1655	rBV	250648	314016	68.95%	12.813%
10	12.018	1788	1793	1807	rBV	300486	371180	81.51%	15.145%

Sum of corrected areas: 2450844

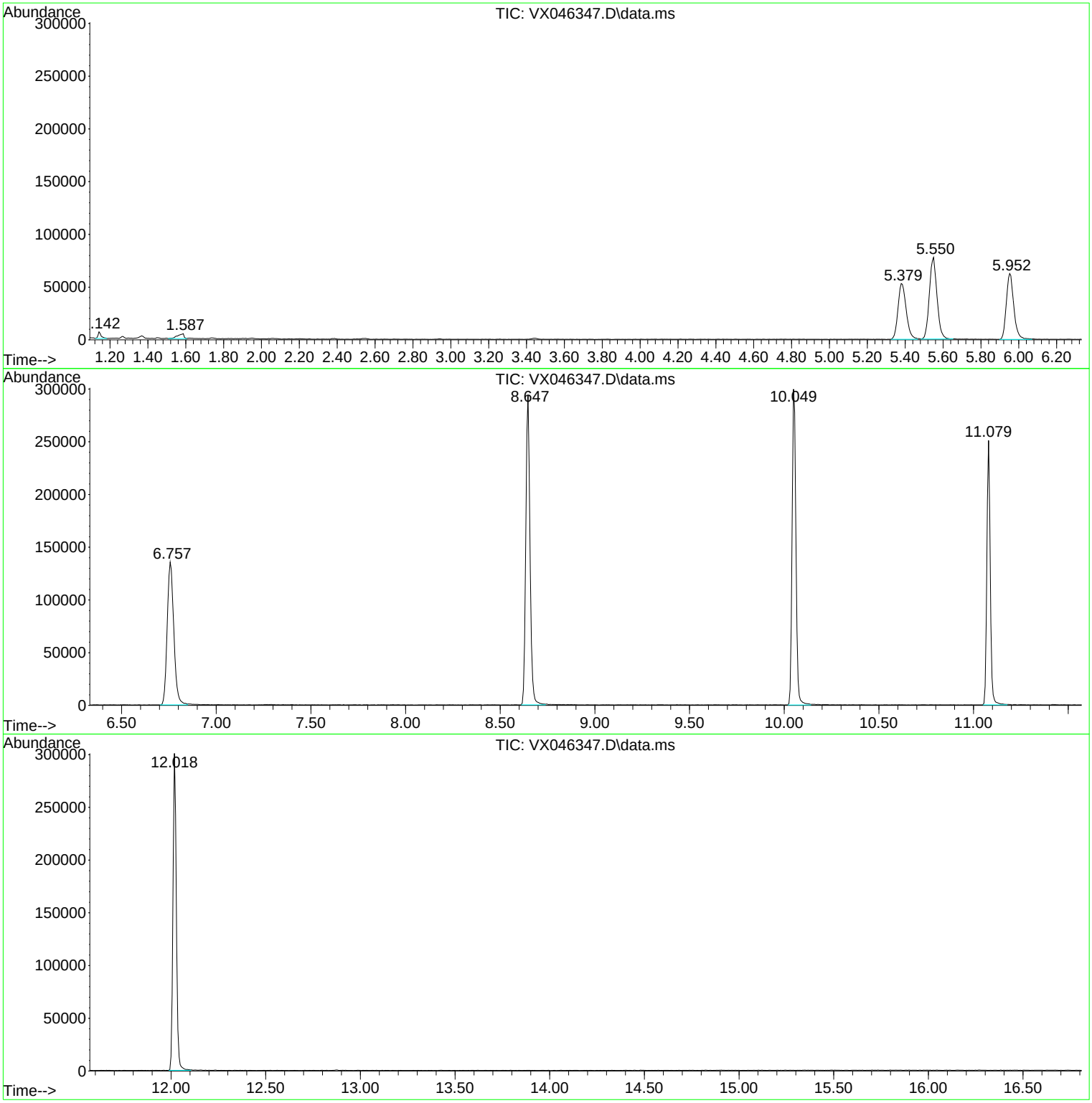
Sample Results: **VX046347.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046347.D
Acq On : 23 May 2025 16:03
Operator : JC/MD
Sample : Q2118-09
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-GW-540-542

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046347.D
Acq On : 23 May 2025 16:03
Operator : JC/MD
Sample : Q2118-09
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-GW-540-542

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046347.D
Acq On : 23 May 2025 16:03
Operator : JC/MD
Sample : Q2118-09
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-GW-540-542

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	05/22/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/22/25
Client Sample ID:	BP-VPB-182-GW-560-562	SDG No.:	Q2118
Lab Sample ID:	Q2118-10	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046348.D	1		05/23/25 16:26	VX052325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.23	0.75	1.00	ug/L
67-64-1	Acetone	1.90	J	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.19	0.75	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	05/22/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/22/25
Client Sample ID:	BP-VPB-182-GW-560-562	SDG No.:	Q2118
Lab Sample ID:	Q2118-10	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046348.D	1		05/23/25 16:26	VX052325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	54.2		81 - 118		108%	SPK: 50
1868-53-7	Dibromofluoromethane	50.6		80 - 119		101%	SPK: 50
2037-26-5	Toluene-d8	50.3		89 - 112		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.6		85 - 114		99%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	63700	5.55				
540-36-3	1,4-Difluorobenzene	128000	6.757				
3114-55-4	Chlorobenzene-d5	121000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	49100	12.018				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D					

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	05/22/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/22/25
Client Sample ID:	BP-VPB-182-GW-560-562	SDG No.:	Q2118
Lab Sample ID:	Q2118-10	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046348.D	1		05/23/25 16:26	VX052325

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

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046348.D
Acq On : 23 May 2025 16:26
Operator : JC/MD
Sample : Q2118-10
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-GW-560-562

Quant Time: May 23 23:04:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

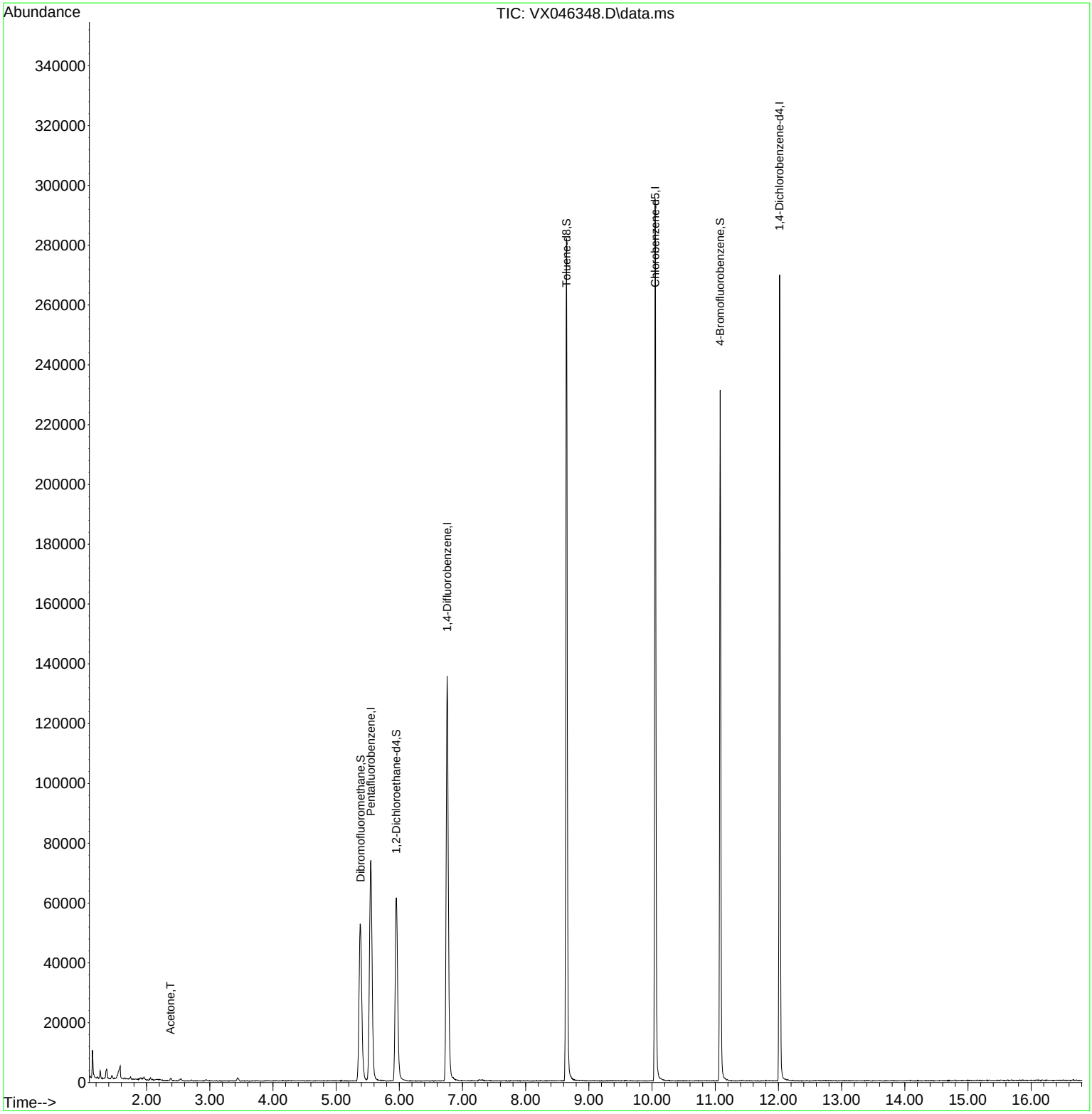
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	63741	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	127709	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	120561	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	49123	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	64419	54.209	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 108.420%			
35) Dibromofluoromethane	5.385	113	46552	50.620	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.240%			
50) Toluene-d8	8.647	98	159958	50.254	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.500%			
62) 4-Bromofluorobenzene	11.079	95	60597	49.631	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 99.260%			
Target Compounds						Qvalue
16) Acetone	2.380	43	906	1.901	ug/l	96

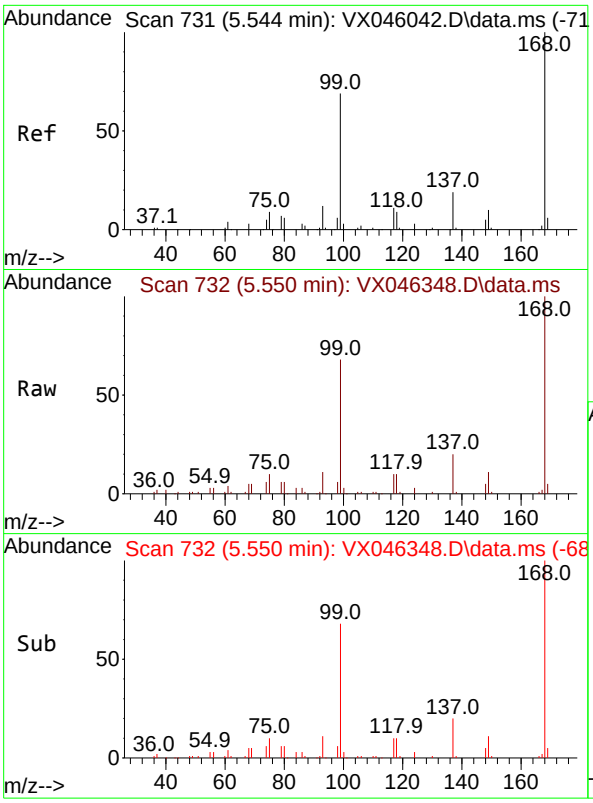
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046348.D
Acq On : 23 May 2025 16:26
Operator : JC/MD
Sample : Q2118-10
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-GW-560-562

Quant Time: May 23 23:04:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration



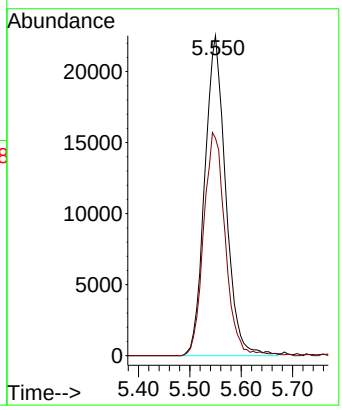


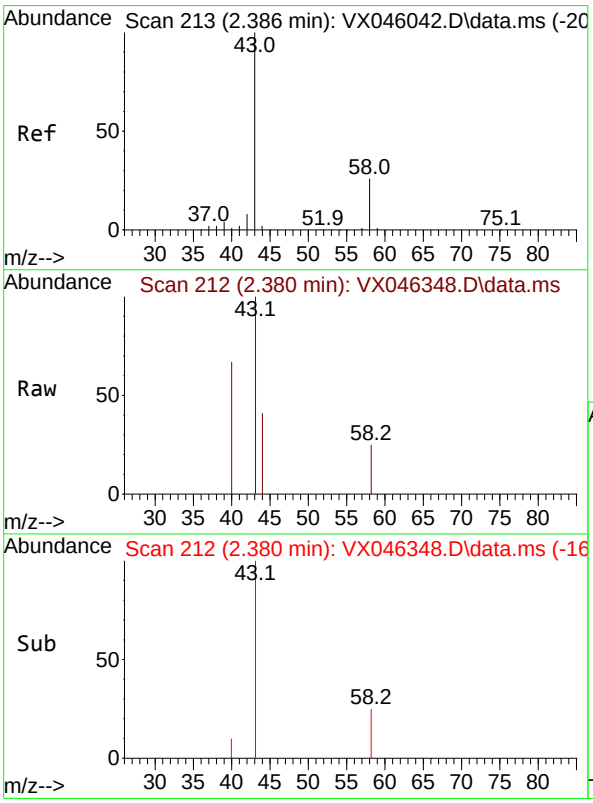
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX046348.D
Acq: 23 May 2025 16:26

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-GW-560-562

Tgt Ion:168 Resp: 63741

Ion	Ratio	Lower	Upper
168	100		
99	67.9	54.9	82.3

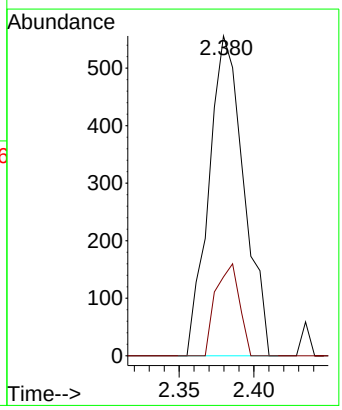


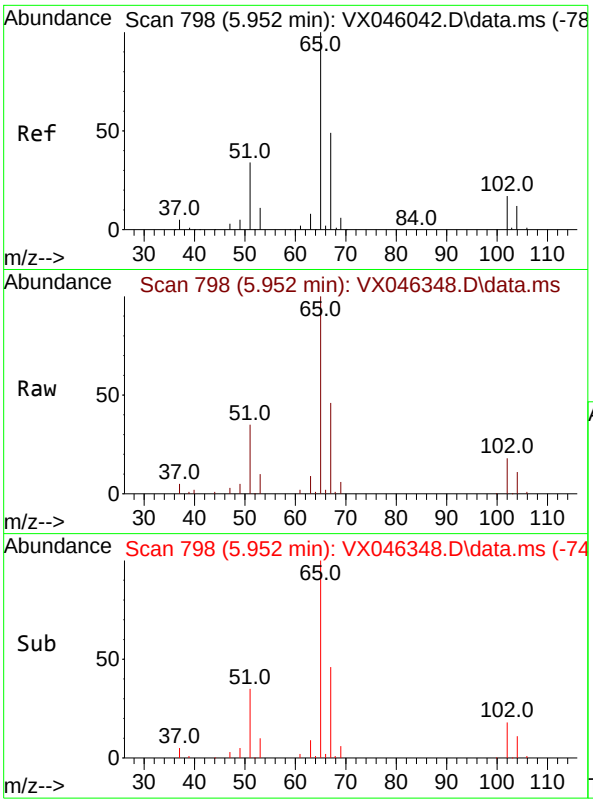


#16
Acetone
Concen: 1.901 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX046348.D
Acq: 23 May 2025 16:26

Tgt Ion: 43 Resp: 906

Ion	Ratio	Lower	Upper
43	100		
58	24.6	21.2	31.8



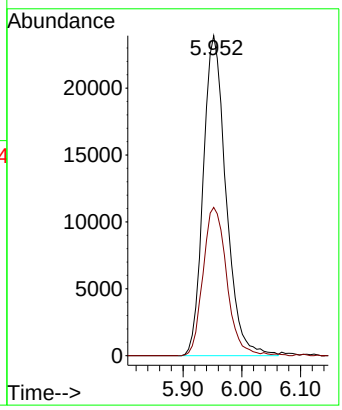


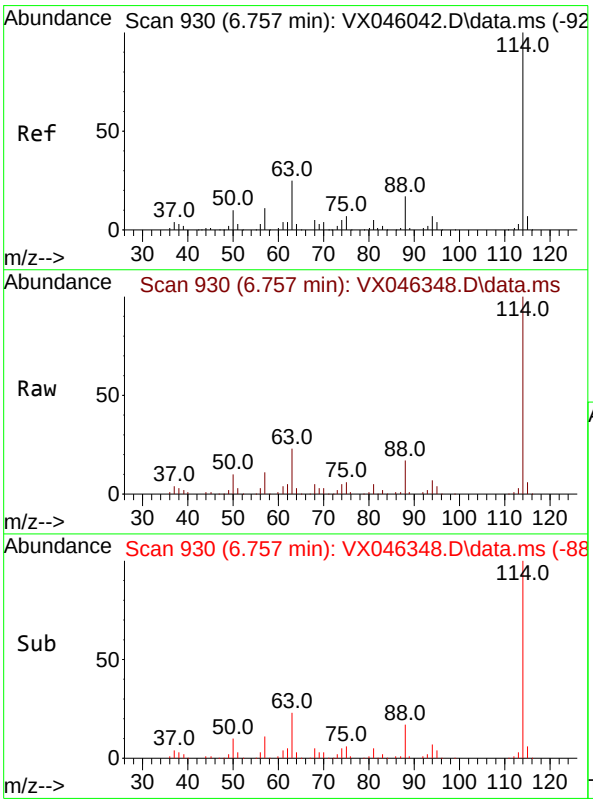
#33
1,2-Dichloroethane-d4
Concen: 54.209 ug/l
RT: 5.952 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX046348.D
Acq: 23 May 2025 16:26

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-GW-560-562

Tgt Ion: 65 Resp: 64419

Ion	Ratio	Lower	Upper
65	100		
67	48.2	0.0	99.0

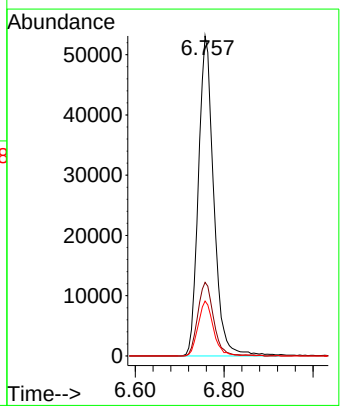


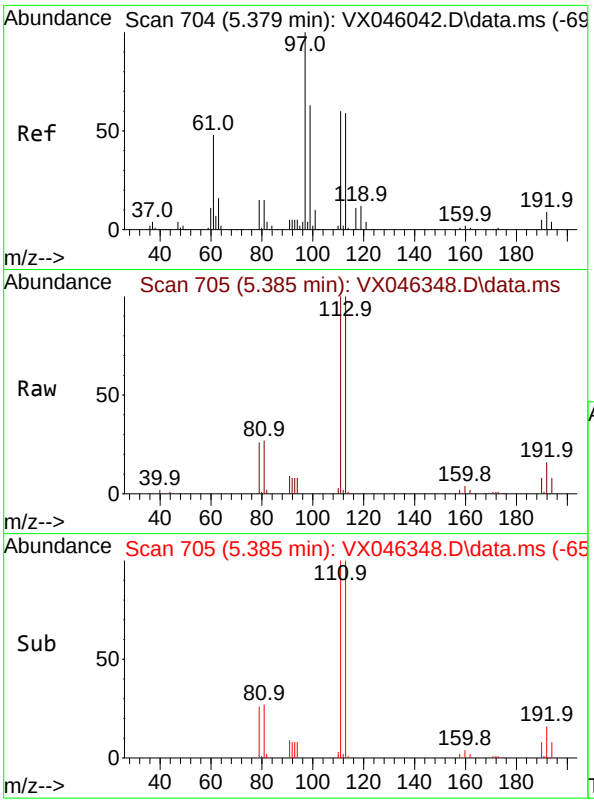


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX046348.D
Acq: 23 May 2025 16:26

Tgt Ion:114 Resp: 127709

Ion	Ratio	Lower	Upper
114	100		
63	23.0	0.0	49.2
88	17.1	0.0	33.6



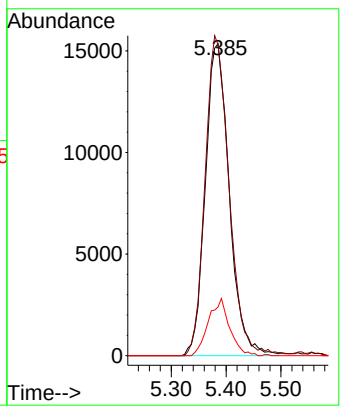


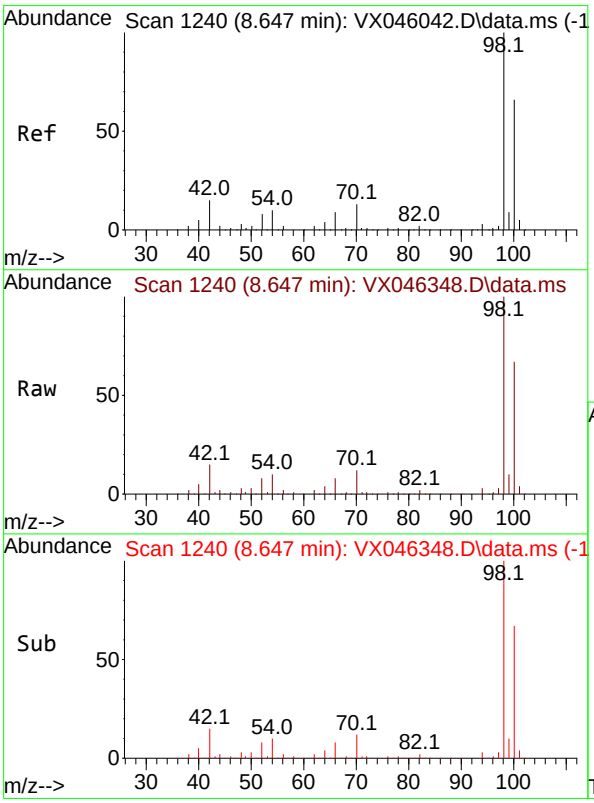
#35
Dibromofluoromethane
Concen: 50.620 ug/l
RT: 5.385 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX046348.D
Acq: 23 May 2025 16:26

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-GW-560-562

Tgt Ion:113 Resp: 46552

Ion	Ratio	Lower	Upper
113	100		
111	102.8	83.1	124.7
192	16.2	13.3	19.9

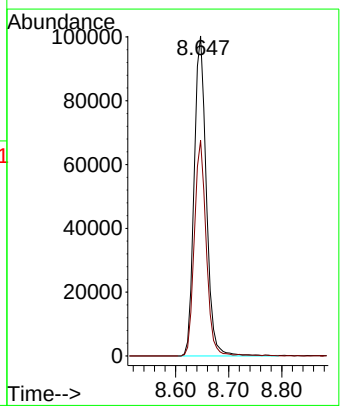


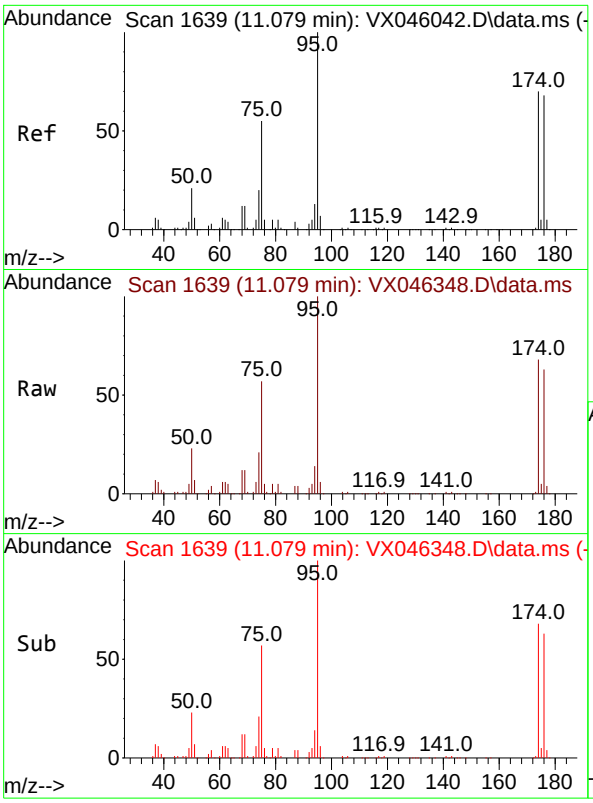


#50
Toluene-d8
Concen: 50.254 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX046348.D
Acq: 23 May 2025 16:26

Tgt Ion: 98 Resp: 159958

Ion	Ratio	Lower	Upper
98	100		
100	65.3	53.5	80.3



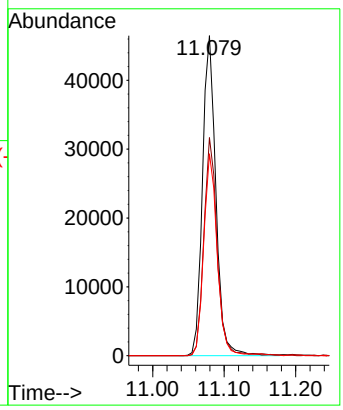


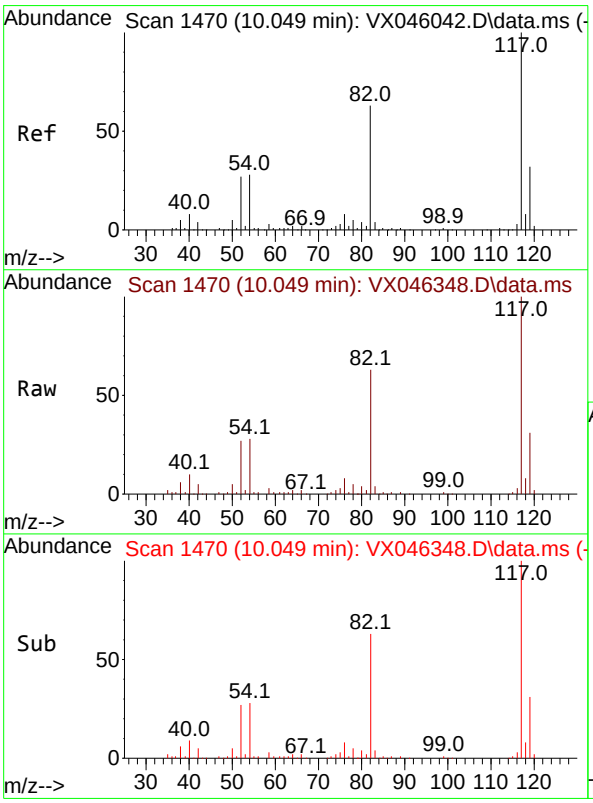
#62
4-Bromofluorobenzene
Concen: 49.631 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046348.D
Acq: 23 May 2025 16:26

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-GW-560-562

Tgt Ion: 95 Resp: 60597

Ion	Ratio	Lower	Upper
95	100		
174	67.2	0.0	135.8
176	63.7	0.0	131.4

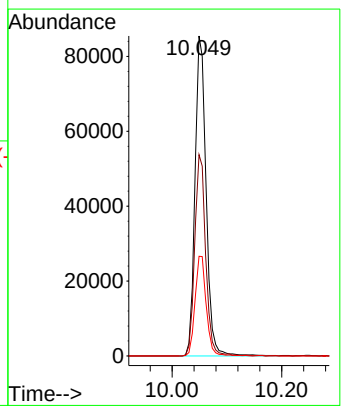


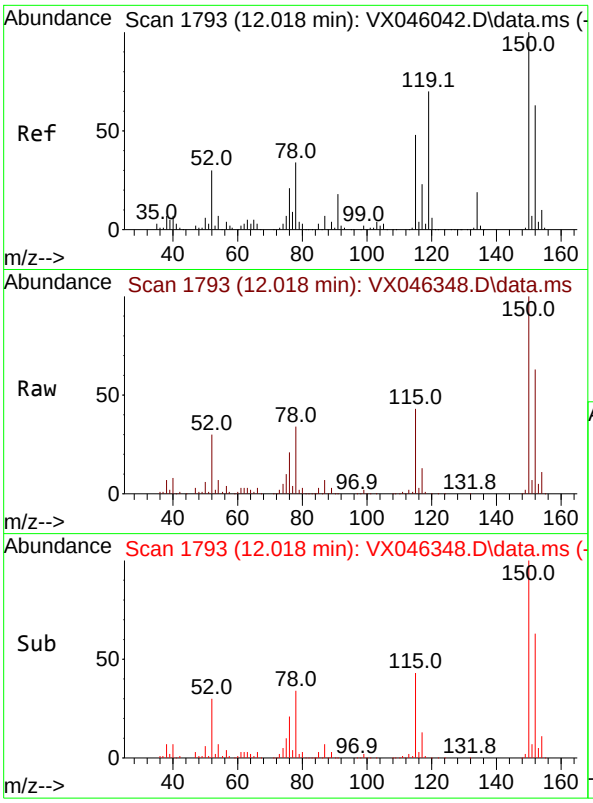


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX046348.D
Acq: 23 May 2025 16:26

Tgt Ion:117 Resp: 120561

Ion	Ratio	Lower	Upper
117	100		
82	62.9	50.6	76.0
119	31.1	25.8	38.6



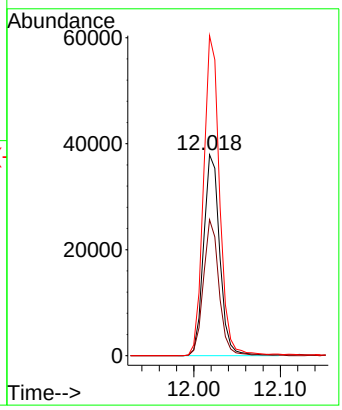


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046348.D
Acq: 23 May 2025 16:26

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-GW-560-562

Tgt Ion:152 Resp: 49123

Ion	Ratio	Lower	Upper
152	100		
115	65.6	46.9	140.7
150	159.2	0.0	351.0



Sample Results: **VX046348.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046348.D
Acq On : 23 May 2025 16:26
Operator : JC/MD
Sample : Q2118-10
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-GW-560-562

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Title : SW846 8260

Signal : TIC: VX046348.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.142	6	9	16	rBV	9220	9274	2.07%	0.390%
2	1.368	41	46	52	rVB2	3201	5561	1.24%	0.234%
3	1.581	69	81	84	rBV4	4063	8855	1.97%	0.372%
4	5.379	695	704	721	rBV2	52581	158102	35.22%	6.642%
5	5.550	721	732	750	rVB	73622	213293	47.51%	8.960%
6	5.952	789	798	822	rBV	61279	168180	37.46%	7.065%
7	6.757	921	930	944	rBV	135488	323070	71.97%	13.572%
8	8.647	1234	1240	1250	rBV	281646	448903	100.00%	18.858%
9	10.049	1465	1470	1482	rBV	295011	409951	91.32%	17.222%
10	11.079	1634	1639	1649	rBV	230960	296524	66.06%	12.457%
11	12.018	1788	1793	1805	rBV	269554	338690	75.45%	14.228%

Sum of corrected areas: 2380403

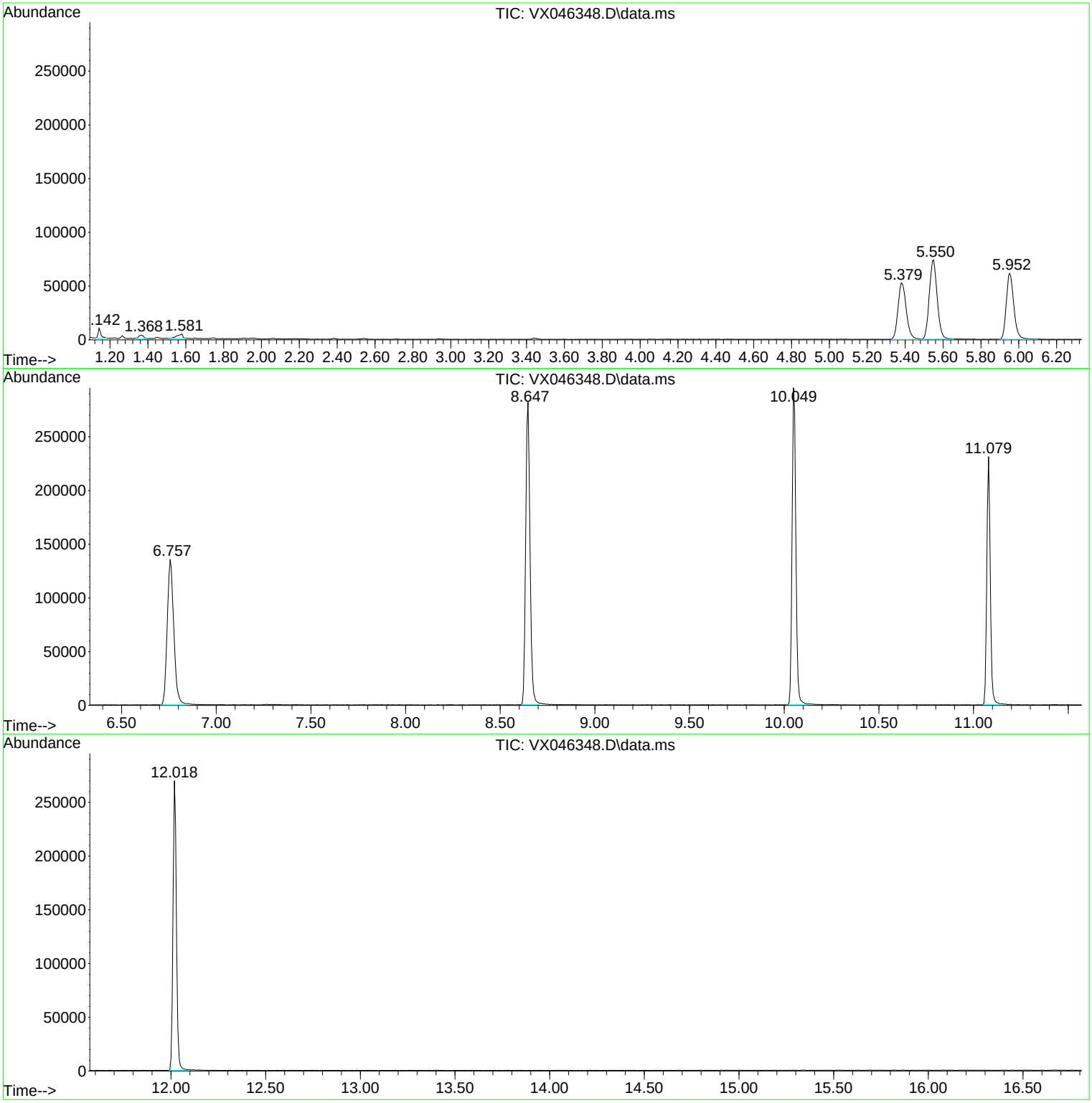
Sample Results: **VX046348.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046348.D
Acq On : 23 May 2025 16:26
Operator : JC/MD
Sample : Q2118-10
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-GW-560-562

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046348.D
Acq On : 23 May 2025 16:26
Operator : JC/MD
Sample : Q2118-10
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-GW-560-562

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046348.D
Acq On : 23 May 2025 16:26
Operator : JC/MD
Sample : Q2118-10
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-182-GW-560-562

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	05/21/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/22/25
Client Sample ID:	BP-VPB-182-GW-500-502	SDG No.:	Q2118
Lab Sample ID:	Q2118-11	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5.11 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022411.D	1		05/23/25 17:14	VY052325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
74-87-3	Chloromethane	2.40	U	1.10	2.40	4.90	ug/Kg
75-01-4	Vinyl Chloride	2.40	U	0.77	2.40	4.90	ug/Kg
74-83-9	Bromomethane	3.90	UQ	1.00	3.90	4.90	ug/Kg
75-00-3	Chloroethane	2.40	UQ	1.20	2.40	4.90	ug/Kg
75-69-4	Trichlorofluoromethane	3.90	U	1.20	3.90	4.90	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	2.40	U	1.00	2.40	4.90	ug/Kg
75-35-4	1,1-Dichloroethene	2.40	U	0.98	2.40	4.90	ug/Kg
67-64-1	Acetone	19.6	U	4.60	19.6	24.5	ug/Kg
75-15-0	Carbon Disulfide	3.90	U	1.00	3.90	4.90	ug/Kg
1634-04-4	Methyl tert-butyl Ether	2.40	U	0.71	2.40	4.90	ug/Kg
75-09-2	Methylene Chloride	7.80	U	3.50	7.80	9.80	ug/Kg
156-60-5	trans-1,2-Dichloroethene	2.40	U	0.84	2.40	4.90	ug/Kg
75-34-3	1,1-Dichloroethane	2.40	U	0.78	2.40	4.90	ug/Kg
78-93-3	2-Butanone	19.6	U	6.40	19.6	24.5	ug/Kg
56-23-5	Carbon Tetrachloride	2.40	U	0.95	2.40	4.90	ug/Kg
156-59-2	cis-1,2-Dichloroethene	2.40	U	0.73	2.40	4.90	ug/Kg
67-66-3	Chloroform	3.90	U	0.82	3.90	4.90	ug/Kg
71-55-6	1,1,1-Trichloroethane	2.40	U	0.91	2.40	4.90	ug/Kg
108-87-2	Methylcyclohexane	2.40	U	0.89	2.40	4.90	ug/Kg
71-43-2	Benzene	2.40	U	0.77	2.40	4.90	ug/Kg
107-06-2	1,2-Dichloroethane	2.40	U	0.77	2.40	4.90	ug/Kg
79-01-6	Trichloroethene	2.40	U	0.79	2.40	4.90	ug/Kg
78-87-5	1,2-Dichloropropane	2.40	U	0.89	2.40	4.90	ug/Kg
75-27-4	Bromodichloromethane	2.40	U	0.76	2.40	4.90	ug/Kg
108-10-1	4-Methyl-2-Pentanone	12.2	U	3.50	12.2	24.5	ug/Kg
108-88-3	Toluene	2.40	U	0.76	2.40	4.90	ug/Kg
10061-02-6	t-1,3-Dichloropropene	2.40	U	0.64	2.40	4.90	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	2.40	U	0.61	2.40	4.90	ug/Kg
79-00-5	1,1,2-Trichloroethane	2.40	U	0.90	2.40	4.90	ug/Kg
591-78-6	2-Hexanone	12.2	U	3.60	12.2	24.5	ug/Kg

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	05/21/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/22/25
Client Sample ID:	BP-VPB-182-GW-500-502	SDG No.:	Q2118
Lab Sample ID:	Q2118-11	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5.11 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022411.D	1		05/23/25 17:14	VY052325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
124-48-1	Dibromochloromethane	2.40	U	0.85	2.40	4.90	ug/Kg
127-18-4	Tetrachloroethene	2.40	U	1.00	2.40	4.90	ug/Kg
108-90-7	Chlorobenzene	2.40	U	0.89	2.40	4.90	ug/Kg
100-41-4	Ethyl Benzene	2.40	U	0.66	2.40	4.90	ug/Kg
179601-23-1	m/p-Xylenes	4.90	U	1.20	4.90	9.80	ug/Kg
95-47-6	o-Xylene	2.40	U	0.80	2.40	4.90	ug/Kg
100-42-5	Styrene	2.40	U	0.69	2.40	4.90	ug/Kg
75-25-2	Bromoform	2.40	U	0.84	2.40	4.90	ug/Kg
98-82-8	Isopropylbenzene	2.40	U	0.76	2.40	4.90	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	2.40	U	1.20	2.40	4.90	ug/Kg
541-73-1	1,3-Dichlorobenzene	2.40	U	1.70	2.40	4.90	ug/Kg
106-46-7	1,4-Dichlorobenzene	2.40	U	1.50	2.40	4.90	ug/Kg
95-50-1	1,2-Dichlorobenzene	2.40	U	1.40	2.40	4.90	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	54.8		71 - 136		110%	SPK: 50
1868-53-7	Dibromofluoromethane	51.9		78 - 119		104%	SPK: 50
2037-26-5	Toluene-d8	48.5		85 - 116		97%	SPK: 50
460-00-4	4-Bromofluorobenzene	38.4	*	79 - 119		77%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	313000	7.713				
540-36-3	1,4-Difluorobenzene	554000	8.621				
3114-55-4	Chlorobenzene-d5	442000	11.42				
3855-82-1	1,4-Dichlorobenzene-d4	153000	13.352				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D					

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	05/21/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/22/25
Client Sample ID:	BP-VPB-182-GW-500-502	SDG No.:	Q2118
Lab Sample ID:	Q2118-11	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5.11 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022411.D	1		05/23/25 17:14	VY052325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022411.D
Acq On : 23 May 2025 17:14
Operator : SY/MD
Sample : Q2118-11
Misc : 5.11g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
BP-VPB-182-GW-500-502

Quant Time: May 23 23:22:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

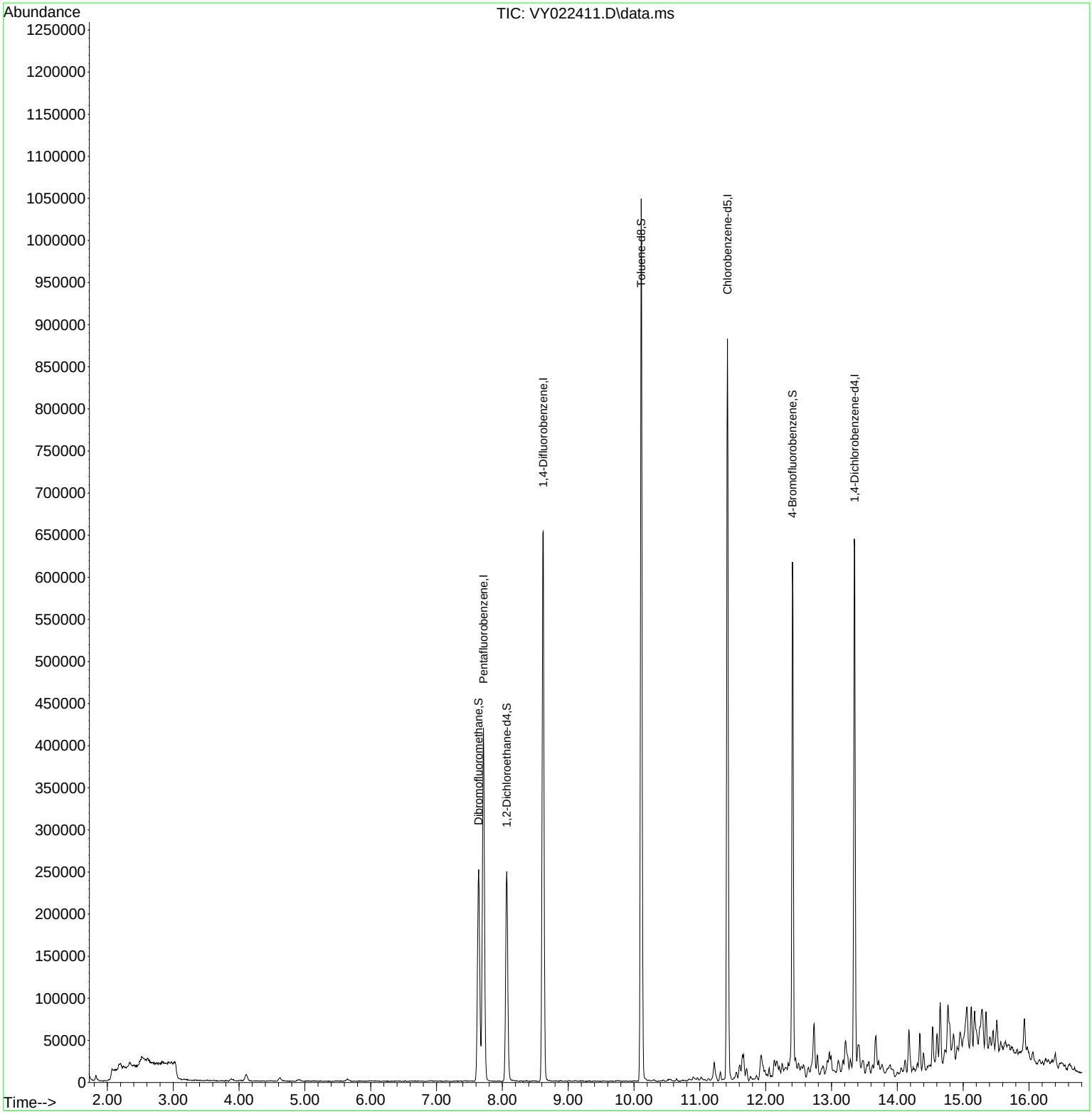
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	313111	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.621	114	554352	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	441958	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.352	152	152683	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	187380	54.757	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 109.520%			
35) Dibromofluoromethane	7.640	113	171809	51.926	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 103.860%			
50) Toluene-d8	10.109	98	656564	48.451	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 96.900%			
62) 4-Bromofluorobenzene	12.407	95	164976	38.409	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 76.820%			
Target Compounds						Qvalue

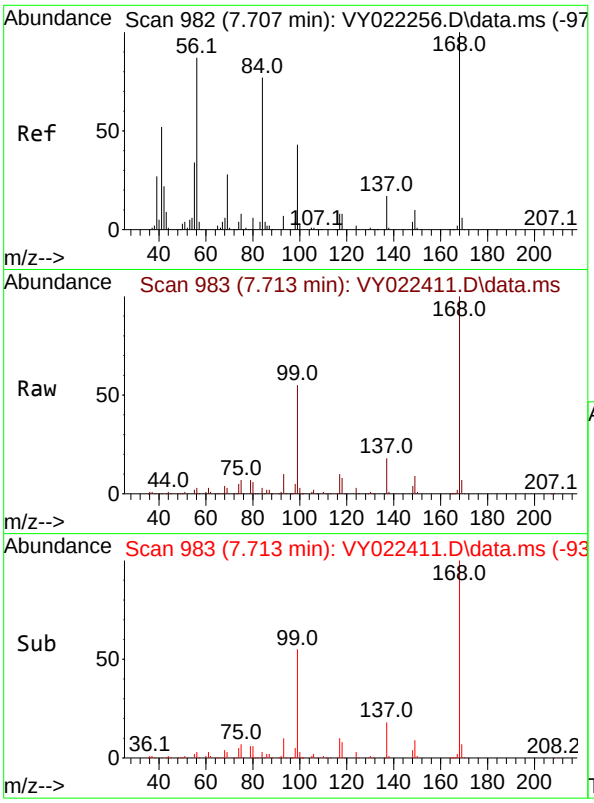
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022411.D
Acq On : 23 May 2025 17:14
Operator : SY/MD
Sample : Q2118-11
Misc : 5.11g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
BP-VPB-182-GW-500-502

Quant Time: May 23 23:22:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration



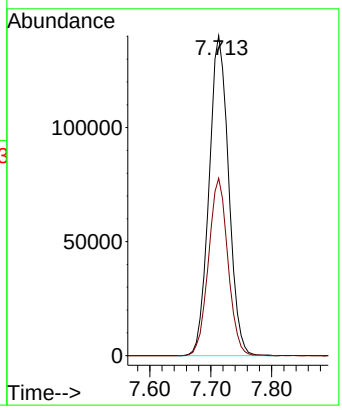


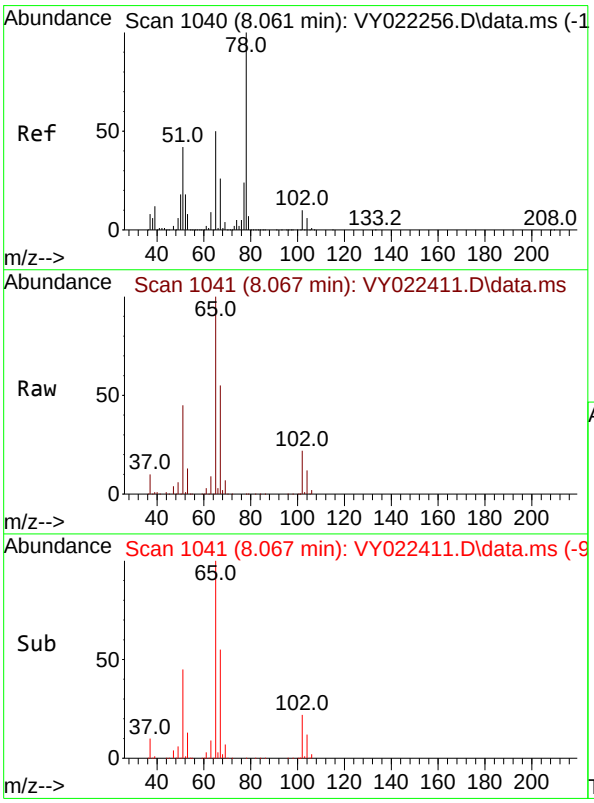
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY022411.D
Acq: 23 May 2025 17:14

Instrument :
MSVOA_Y
ClientSampleId :
BP-VPB-182-GW-500-502

Tgt Ion:168 Resp: 313111

Ion	Ratio	Lower	Upper
168	100		
99	55.5	44.2	66.4

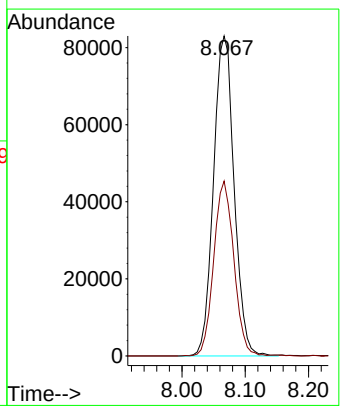


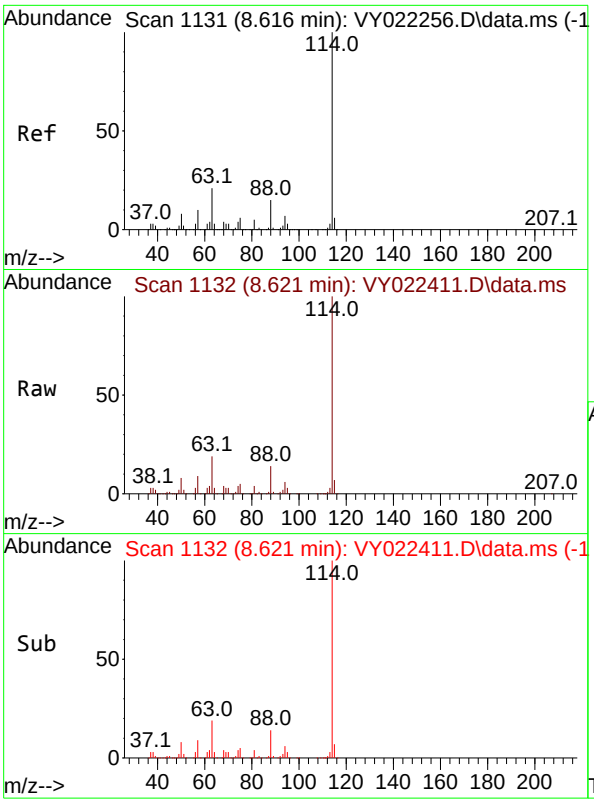


#33
1,2-Dichloroethane-d4
Concen: 54.757 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. 0.006 min
Lab File: VY022411.D
Acq: 23 May 2025 17:14

Tgt Ion: 65 Resp: 187380

Ion	Ratio	Lower	Upper
65	100		
67	53.4	0.0	104.6



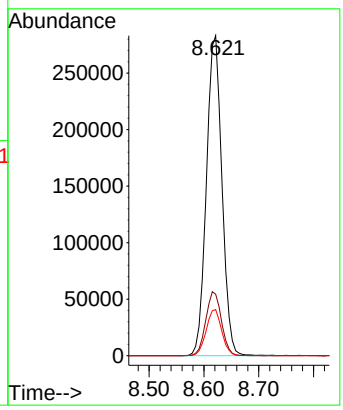


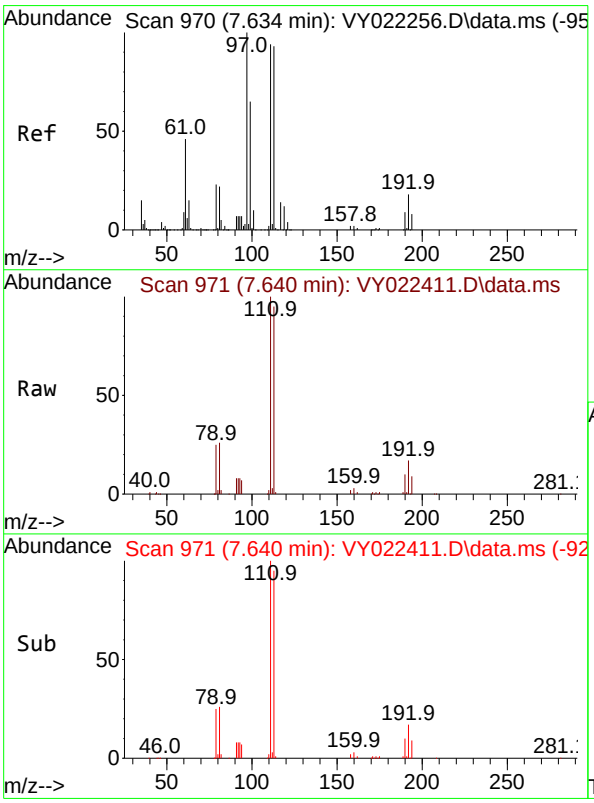
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.621 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY022411.D
Acq: 23 May 2025 17:14

Instrument :
MSVOA_Y
ClientSampleId :
BP-VPB-182-GW-500-502

Tgt Ion:114 Resp: 554352

Ion	Ratio	Lower	Upper
114	100		
63	19.2	0.0	41.0
88	14.4	0.0	29.4

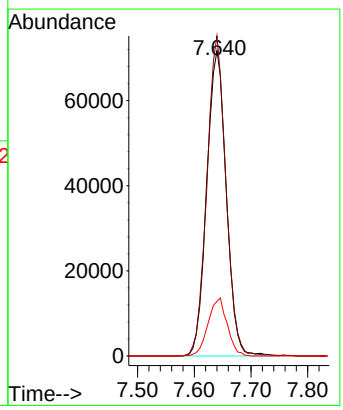


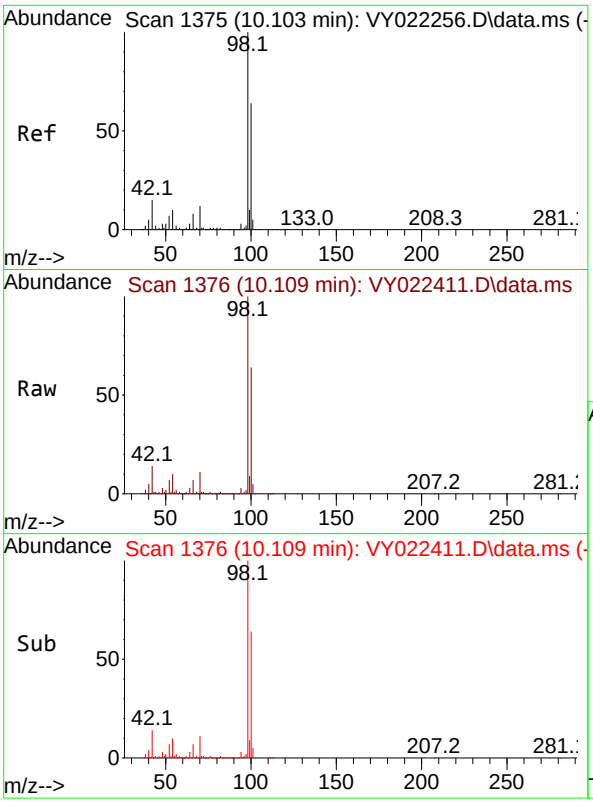


#35
Dibromofluoromethane
Concen: 51.926 ug/l
RT: 7.640 min Scan# 971
Delta R.T. 0.006 min
Lab File: VY022411.D
Acq: 23 May 2025 17:14

Tgt Ion:113 Resp: 171809

Ion	Ratio	Lower	Upper
113	100		
111	102.4	82.6	123.8
192	18.6	15.2	22.8



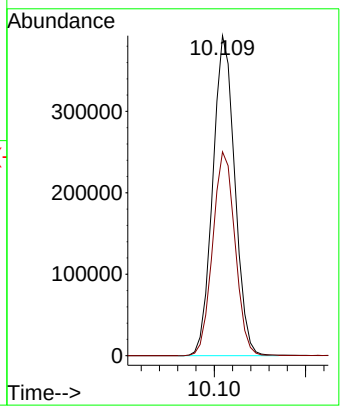


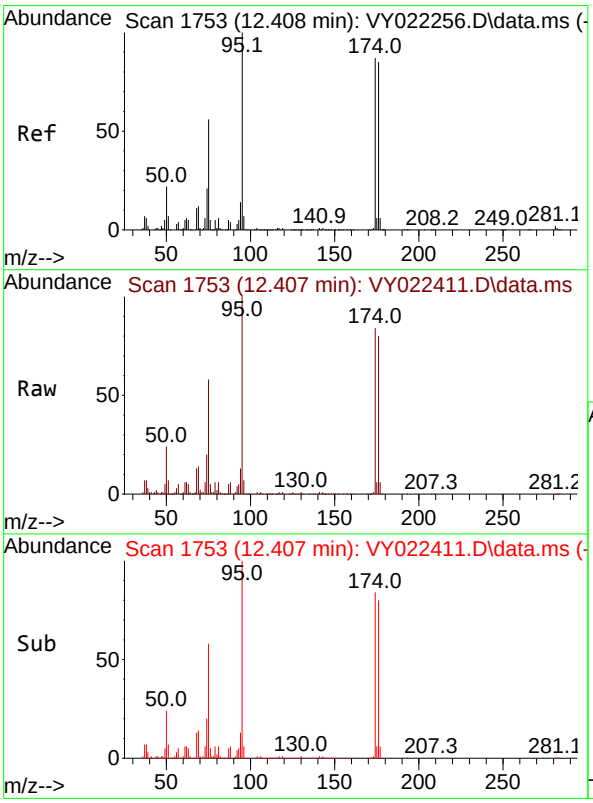
#50
Toluene-d8
Concen: 48.451 ug/l
RT: 10.109 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022411.D
Acq: 23 May 2025 17:14

Instrument :
MSVOA_Y
ClientSampleId :
BP-VPB-182-GW-500-502

Tgt Ion: 98 Resp: 656564

Ion	Ratio	Lower	Upper
98	100		
100	64.8	51.8	77.8

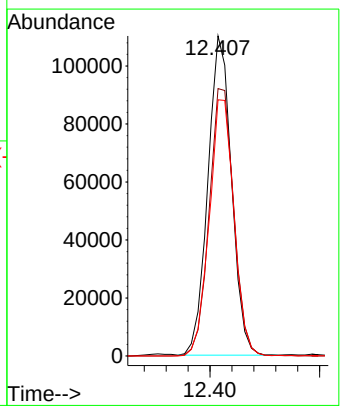


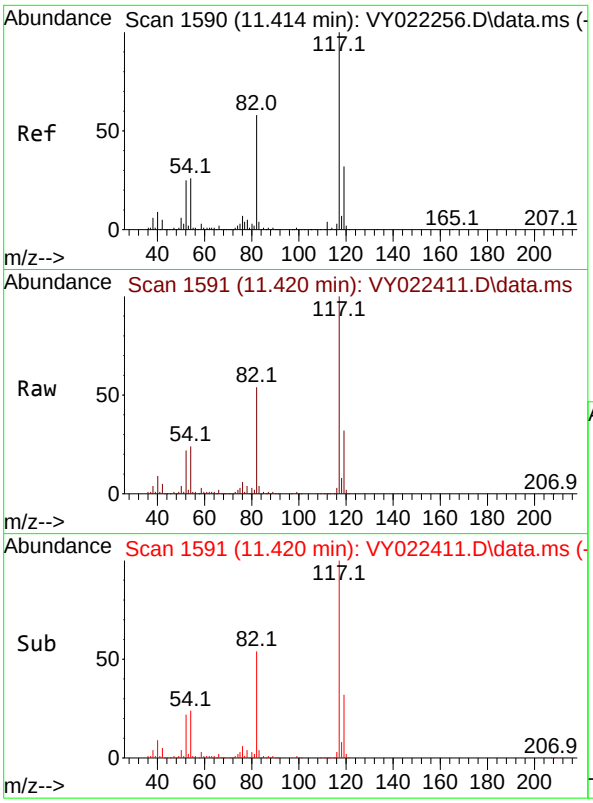


#62
4-Bromofluorobenzene
Concen: 38.409 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. -0.000 min
Lab File: VY022411.D
Acq: 23 May 2025 17:14

Tgt Ion: 95 Resp: 164976

Ion	Ratio	Lower	Upper
95	100		
174	87.1	0.0	166.8
176	84.0	0.0	160.8



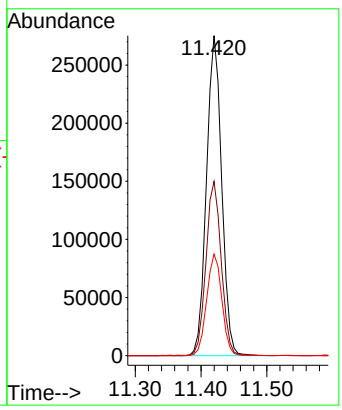


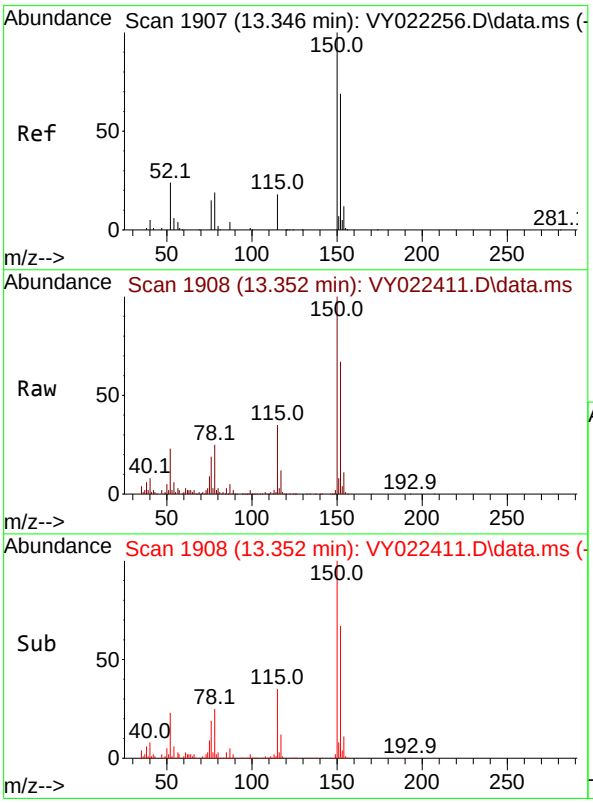
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022411.D
Acq: 23 May 2025 17:14

Instrument :
MSVOA_Y
ClientSampleId :
BP-VPB-182-GW-500-502

Tgt Ion:117 Resp: 441958

Ion	Ratio	Lower	Upper
117	100		
82	54.4	46.6	70.0
119	31.7	25.8	38.6

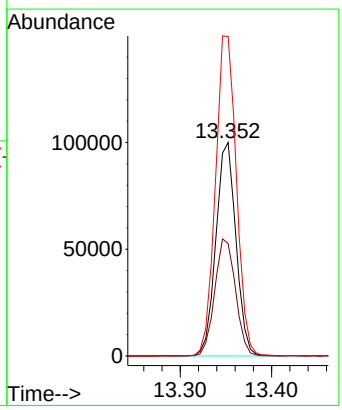




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.352 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY022411.D
Acq: 23 May 2025 17:14

Tgt Ion:152 Resp: 152683

Ion	Ratio	Lower	Upper
152	100		
115	56.7	29.4	88.2
150	156.3	0.0	353.8



Sample Results: **VY022411.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022411.D
Acq On : 23 May 2025 17:14
Operator : SY/MD
Sample : Q2118-11
Misc : 5.11g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
BP-VPB-182-GW-500-502

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Title : SW846 8260

Signal : TIC: VY022411.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.068	51	57	62	rBV4	13305	34444	1.93%	0.304%
2	2.519	124	131	136	rBV9	9321	27106	1.52%	0.239%
3	4.110	384	392	399	rBV3	7487	19929	1.11%	0.176%
4	7.640	959	971	977	rBV2	251450	599912	33.55%	5.295%
5	7.713	977	983	997	rVB	419471	935959	52.34%	8.262%
6	8.067	1030	1041	1053	rBV	249496	564262	31.55%	4.981%
7	8.621	1122	1132	1144	rBV	652984	1301479	72.78%	11.488%
8	10.109	1369	1376	1390	rBV	1048005	1788204	100.00%	15.784%
9	11.219	1549	1558	1567	rVB5	21650	50611	2.83%	0.447%
10	11.420	1584	1591	1603	rVB	879511	1424220	79.65%	12.571%
11	11.609	1617	1622	1625	rBV4	15365	30326	1.70%	0.268%
12	11.645	1625	1628	1630	rBV3	18515	25536	1.43%	0.225%
13	11.712	1635	1639	1644	rVB3	14495	26217	1.47%	0.231%
14	11.932	1668	1675	1682	rBV4	29122	87857	4.91%	0.776%
15	12.133	1702	1708	1711	rBV5	19864	38894	2.18%	0.343%
16	12.170	1711	1714	1718	rVB4	10262	18907	1.06%	0.167%
17	12.407	1745	1753	1759	rBV	597158	918757	51.38%	8.110%
18	12.572	1778	1780	1787	rVB4	14763	27267	1.52%	0.241%
19	12.651	1787	1793	1796	rBV5	11854	24319	1.36%	0.215%
20	12.737	1797	1807	1812	rVV4	57390	120160	6.72%	1.061%
21	12.785	1812	1815	1822	rVB3	22716	33385	1.87%	0.295%
22	12.871	1822	1829	1833	rBV6	10072	24463	1.37%	0.216%
23	12.938	1834	1840	1842	rBV4	15227	26665	1.49%	0.235%
24	13.102	1862	1867	1874	rBV6	14304	30556	1.71%	0.270%
25	13.175	1874	1879	1881	rVV6	14501	23417	1.31%	0.207%
26	13.212	1881	1885	1894	rVV5	37792	104312	5.83%	0.921%
27	13.285	1894	1897	1901	rVV5	15822	27418	1.53%	0.242%
28	13.346	1901	1907	1913	rVV	634038	1013382	56.67%	8.945%
29	13.407	1913	1917	1924	rVV3	33293	87688	4.90%	0.774%
30	13.480	1924	1929	1934	rVB7	15157	35429	1.98%	0.313%
31	13.566	1940	1943	1948	rVB3	13559	21860	1.22%	0.193%
32	13.675	1955	1961	1966	rVV5	44064	95181	5.32%	0.840%
33	13.718	1966	1968	1971	rVV4	14786	18973	1.06%	0.167%
34	14.120	2030	2034	2038	rVV4	15969	26656	1.49%	0.235%
35	14.175	2038	2043	2050	rVV6	50773	95611	5.35%	0.844%
36	14.340	2066	2070	2075	rVV3	44103	66563	3.72%	0.588%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022411.D
Acq On : 23 May 2025 17:14
Operator : SY/MD
Sample : Q2118-11
Misc : 5.11g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
BP-VPB-182-GW-500-502

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Title : SW846 8260

37	14.395	2075	2079	2085	rVB7	20325	33296	1.86%	0.294%
38	14.535	2098	2102	2108	rBV2	46942	75647	4.23%	0.668%
39	14.602	2109	2113	2117	rBV5	32280	53772	3.01%	0.475%
40	14.651	2117	2121	2128	rVB4	72345	117314	6.56%	1.036%
41	14.724	2128	2133	2136	rBV4	16017	35119	1.96%	0.310%
42	14.767	2136	2140	2144	rBV4	55796	107852	6.03%	0.952%
43	14.852	2150	2154	2159	rVB5	29622	57441	3.21%	0.507%
44	14.956	2167	2171	2176	rVV7	30548	72056	4.03%	0.636%
45	15.059	2176	2188	2194	rVV6	59225	209944	11.74%	1.853%
46	15.126	2194	2199	2203	rVV3	57990	109266	6.11%	0.964%
47	15.175	2203	2207	2216	rVV7	52262	141592	7.92%	1.250%
48	15.254	2216	2220	2221	rVV4	32620	50392	2.82%	0.445%
49	15.285	2222	2225	2231	rVV5	52802	118809	6.64%	1.049%
50	15.346	2231	2235	2240	rVV3	49058	84509	4.73%	0.746%
51	15.407	2242	2245	2248	rVV5	18290	31650	1.77%	0.279%
52	15.456	2250	2253	2257	rVV5	24794	39114	2.19%	0.345%
53	15.510	2257	2262	2267	rVB4	37006	66566	3.72%	0.588%
54	15.931	2326	2331	2336	rBV2	38286	63236	3.54%	0.558%
55	16.059	2348	2352	2360	rVB9	13925	30264	1.69%	0.267%
56	16.401	2404	2408	2415	rVB5	18064	35307	1.97%	0.312%

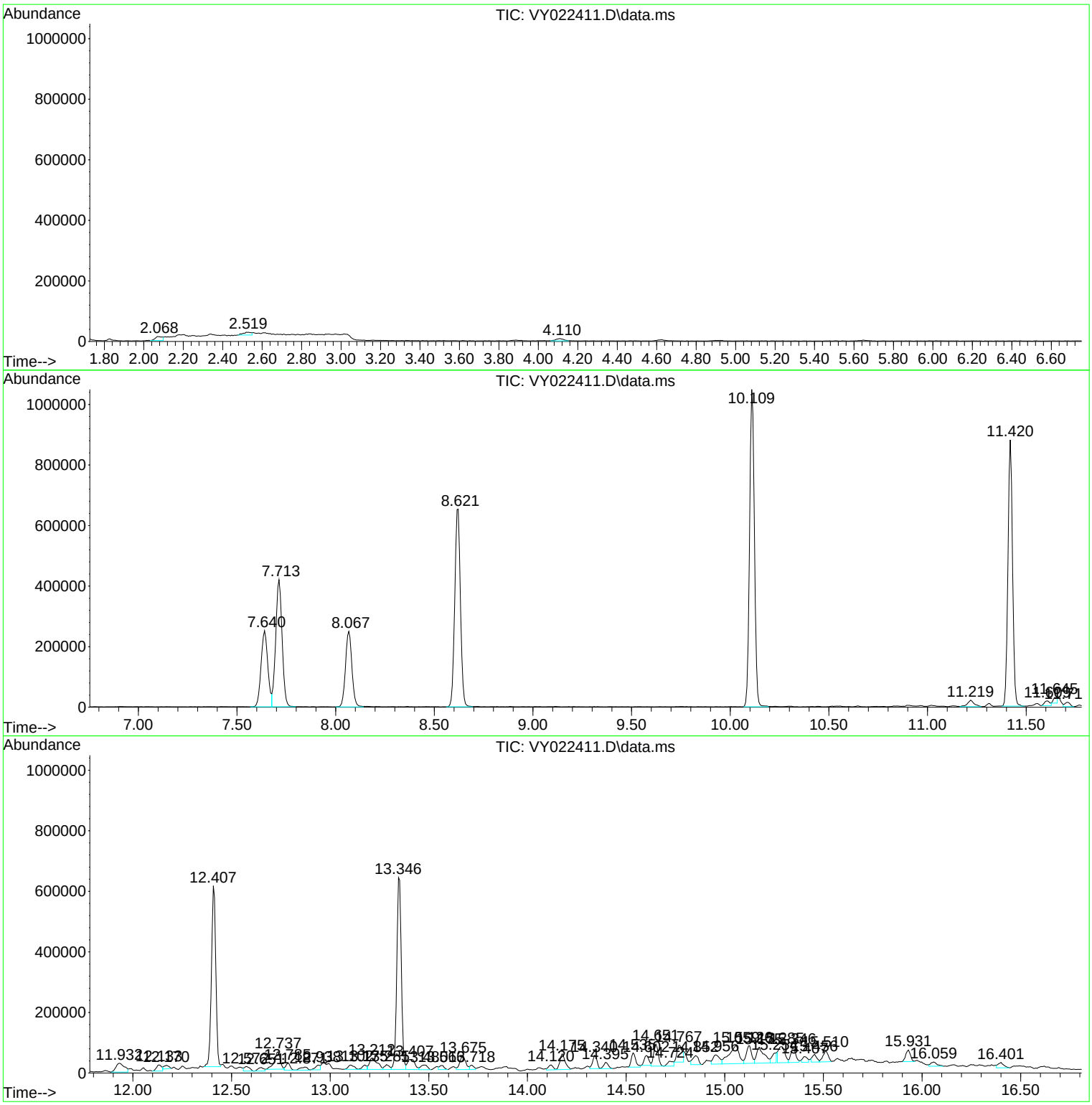
Sum of corrected areas: 11329071

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022411.D
Acq On : 23 May 2025 17:14
Operator : SY/MD
Sample : Q2118-11
Misc : 5.11g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
BP-VPB-182-GW-500-502

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022411.D
Acq On : 23 May 2025 17:14
Operator : SY/MD
Sample : Q2118-11
Misc : 5.11g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
BP-VPB-182-GW-500-502

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022411.D
Acq On : 23 May 2025 17:14
Operator : SY/MD
Sample : Q2118-11
Misc : 5.11g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
BP-VPB-182-GW-500-502

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	05/21/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/22/25
Client Sample ID:	BP-VPB-182-GW-500-502RE	SDG No.:	Q2118
Lab Sample ID:	Q2118-11RE	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5.54 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022432.D	1		05/27/25 14:27	VY052725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
74-87-3	Chloromethane	2.30	U	1.00	2.30	4.50	ug/Kg
75-01-4	Vinyl Chloride	2.30	U	0.71	2.30	4.50	ug/Kg
74-83-9	Bromomethane	3.60	U	0.97	3.60	4.50	ug/Kg
75-00-3	Chloroethane	2.30	U	1.10	2.30	4.50	ug/Kg
75-69-4	Trichlorofluoromethane	3.60	U	1.10	3.60	4.50	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	2.30	U	0.96	2.30	4.50	ug/Kg
75-35-4	1,1-Dichloroethene	2.30	U	0.90	2.30	4.50	ug/Kg
67-64-1	Acetone	18.1	U	4.30	18.1	22.6	ug/Kg
75-15-0	Carbon Disulfide	3.60	U	0.96	3.60	4.50	ug/Kg
1634-04-4	Methyl tert-butyl Ether	2.30	U	0.66	2.30	4.50	ug/Kg
75-09-2	Methylene Chloride	7.20	U	3.20	7.20	9.00	ug/Kg
156-60-5	trans-1,2-Dichloroethene	2.30	U	0.78	2.30	4.50	ug/Kg
75-34-3	1,1-Dichloroethane	2.30	U	0.72	2.30	4.50	ug/Kg
78-93-3	2-Butanone	18.1	U	5.90	18.1	22.6	ug/Kg
56-23-5	Carbon Tetrachloride	2.30	U	0.88	2.30	4.50	ug/Kg
156-59-2	cis-1,2-Dichloroethene	2.30	U	0.68	2.30	4.50	ug/Kg
67-66-3	Chloroform	3.60	U	0.76	3.60	4.50	ug/Kg
71-55-6	1,1,1-Trichloroethane	2.30	U	0.84	2.30	4.50	ug/Kg
108-87-2	Methylcyclohexane	2.30	U	0.82	2.30	4.50	ug/Kg
71-43-2	Benzene	2.30	U	0.71	2.30	4.50	ug/Kg
107-06-2	1,2-Dichloroethane	2.30	U	0.71	2.30	4.50	ug/Kg
79-01-6	Trichloroethene	2.30	U	0.73	2.30	4.50	ug/Kg
78-87-5	1,2-Dichloropropane	2.30	U	0.82	2.30	4.50	ug/Kg
75-27-4	Bromodichloromethane	2.30	U	0.70	2.30	4.50	ug/Kg
108-10-1	4-Methyl-2-Pentanone	11.3	U	3.20	11.3	22.6	ug/Kg
108-88-3	Toluene	2.30	U	0.70	2.30	4.50	ug/Kg
10061-02-6	t-1,3-Dichloropropene	2.30	U	0.59	2.30	4.50	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	2.30	U	0.56	2.30	4.50	ug/Kg
79-00-5	1,1,2-Trichloroethane	2.30	U	0.83	2.30	4.50	ug/Kg
591-78-6	2-Hexanone	11.3	U	3.30	11.3	22.6	ug/Kg

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	05/21/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/22/25
Client Sample ID:	BP-VPB-182-GW-500-502RE	SDG No.:	Q2118
Lab Sample ID:	Q2118-11RE	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5.54 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022432.D	1		05/27/25 14:27	VY052725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
124-48-1	Dibromochloromethane	2.30	U	0.79	2.30	4.50	ug/Kg
127-18-4	Tetrachloroethene	2.30	U	0.95	2.30	4.50	ug/Kg
108-90-7	Chlorobenzene	2.30	U	0.82	2.30	4.50	ug/Kg
100-41-4	Ethyl Benzene	2.30	U	0.60	2.30	4.50	ug/Kg
179601-23-1	m/p-Xylenes	4.50	U	1.10	4.50	9.00	ug/Kg
95-47-6	o-Xylene	2.30	U	0.74	2.30	4.50	ug/Kg
100-42-5	Styrene	2.30	U	0.64	2.30	4.50	ug/Kg
75-25-2	Bromoform	2.30	U	0.78	2.30	4.50	ug/Kg
98-82-8	Isopropylbenzene	2.30	U	0.70	2.30	4.50	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	2.30	U	1.10	2.30	4.50	ug/Kg
541-73-1	1,3-Dichlorobenzene	2.30	U	1.50	2.30	4.50	ug/Kg
106-46-7	1,4-Dichlorobenzene	2.30	U	1.40	2.30	4.50	ug/Kg
95-50-1	1,2-Dichlorobenzene	2.30	U	1.30	2.30	4.50	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	53.3		71 - 136		107%	SPK: 50
1868-53-7	Dibromofluoromethane	51.9		78 - 119		104%	SPK: 50
2037-26-5	Toluene-d8	49.3		85 - 116		99%	SPK: 50
460-00-4	4-Bromofluorobenzene	38.0	*	79 - 119		76%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	322000	7.707				
540-36-3	1,4-Difluorobenzene	573000	8.616				
3114-55-4	Chlorobenzene-d5	436000	11.414				
3855-82-1	1,4-Dichlorobenzene-d4	137000	13.346				

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022432.D
Acq On : 27 May 2025 14:27
Operator : SY/MD
Sample : Q2118-11RE
Misc : 5.54g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
BP-VPB-182-GW-500-502RE

Quant Time: May 28 07:42:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration

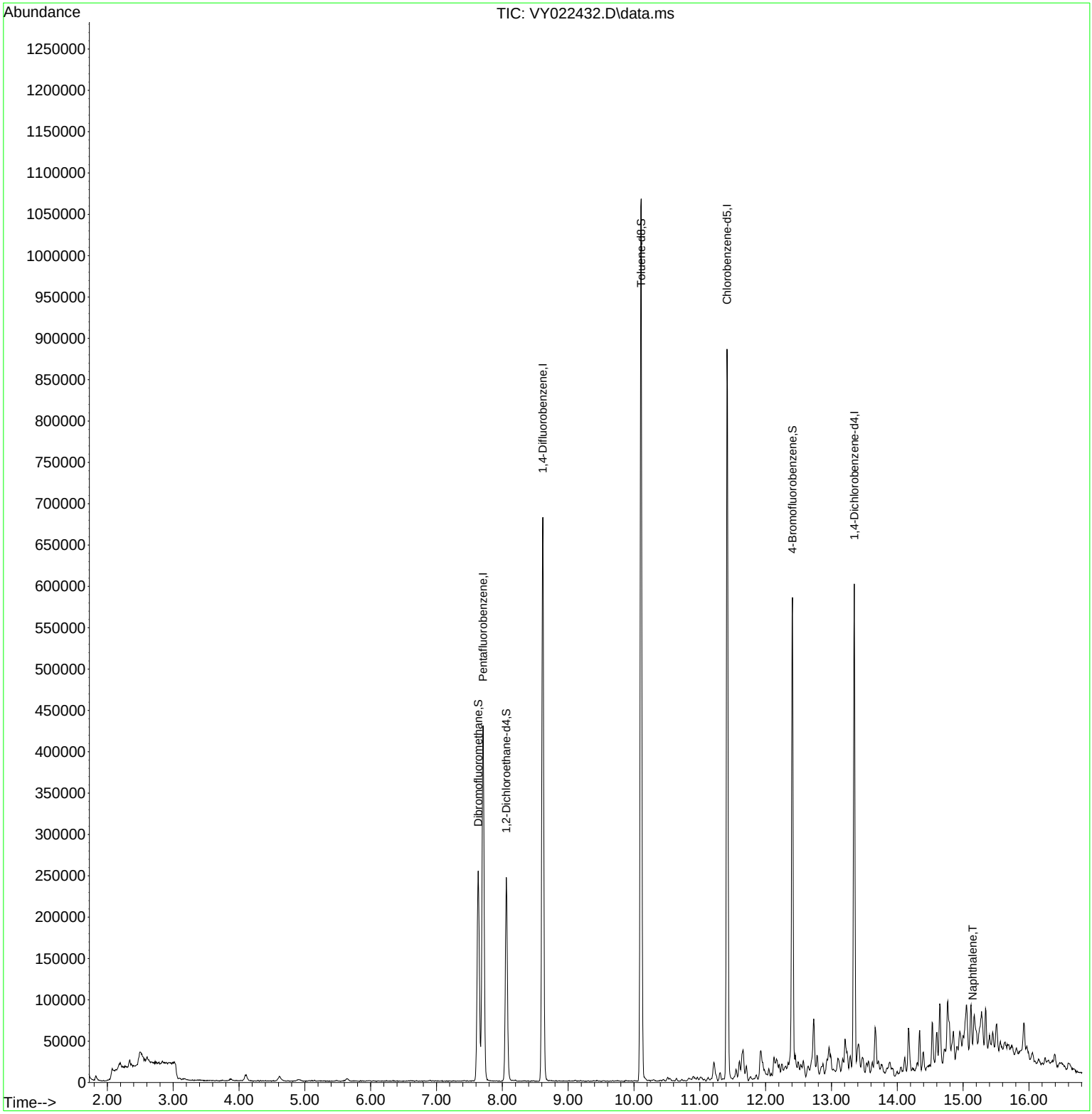
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	322318	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	572594	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	436021	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	136693	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	180844	53.268	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 106.540%			
35) Dibromofluoromethane	7.634	113	174066	51.909	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 103.820%			
50) Toluene-d8	10.109	98	674075	49.311	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 98.620%			
62) 4-Bromofluorobenzene	12.408	95	157149	38.005	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 76.020%			
Target Compounds						Qvalue
95) Naphthalene	15.145	128	4159	1.043	ug/l #	91

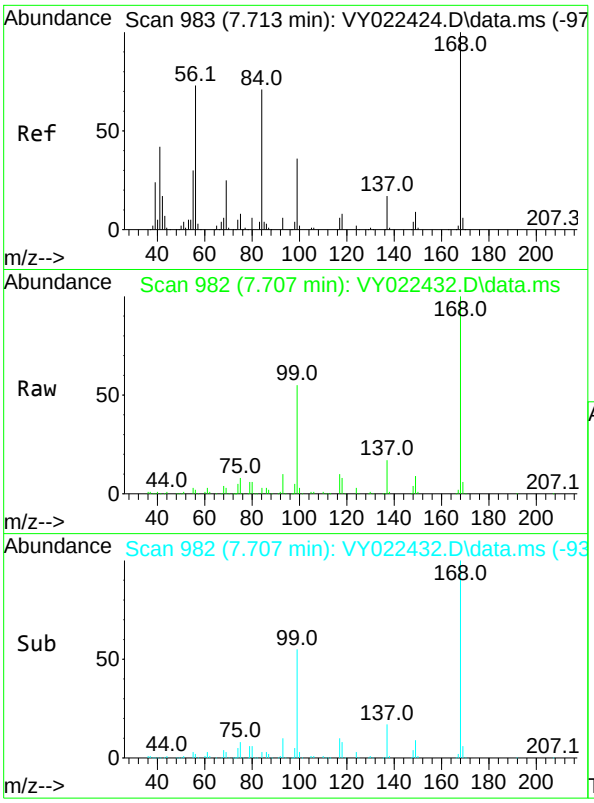
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022432.D
Acq On : 27 May 2025 14:27
Operator : SY/MD
Sample : Q2118-11RE
Misc : 5.54g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
BP-VPB-182-GW-500-502RE

Quant Time: May 28 07:42:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration



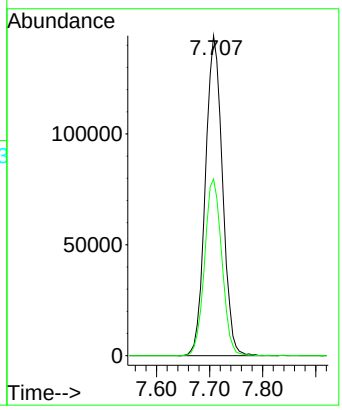


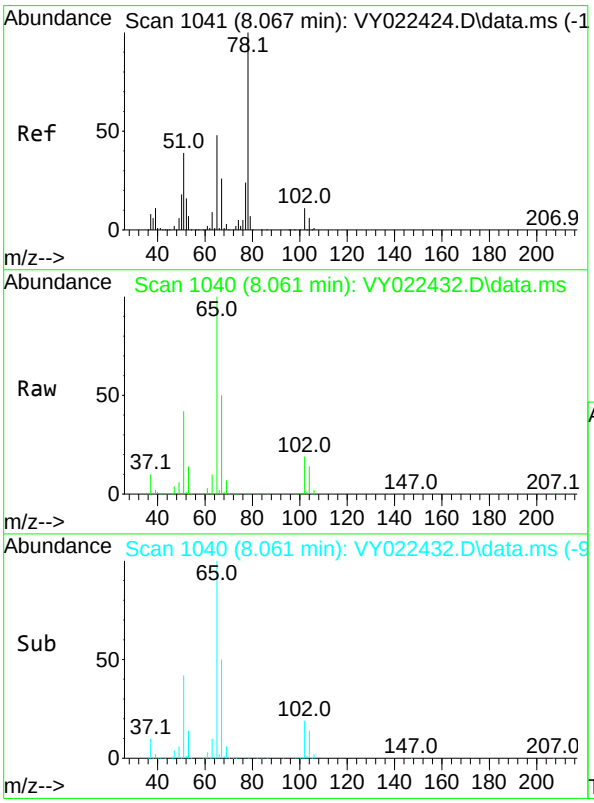
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY022432.D
Acq: 27 May 2025 14:27

Instrument :
MSVOA_Y
ClientSampleId :
BP-VPB-182-GW-500-502RE

Tgt Ion:168 Resp: 322318

Ion	Ratio	Lower	Upper
168	100		
99	55.2	44.7	67.1

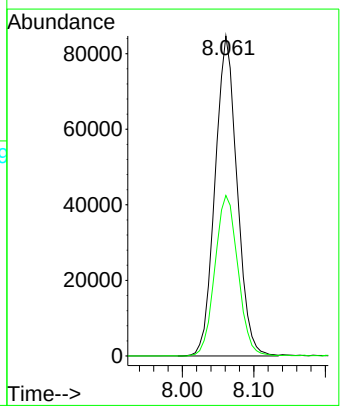


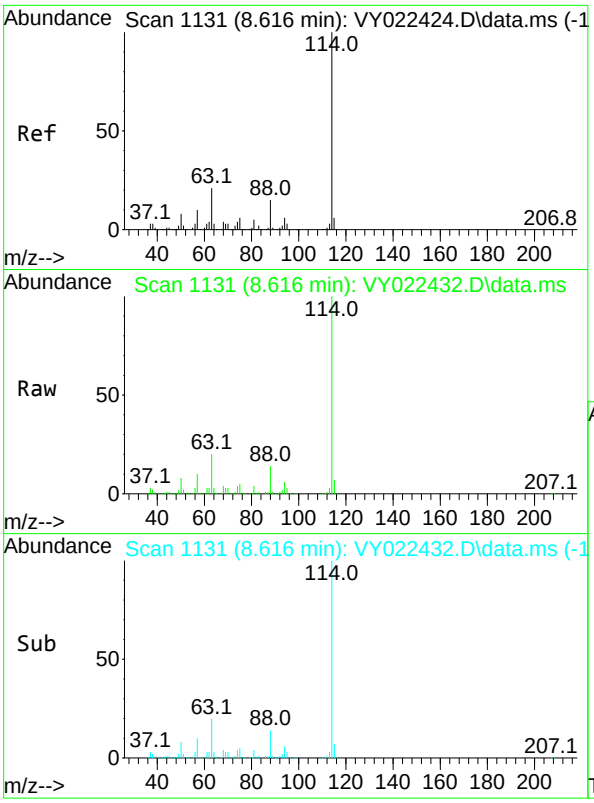


#33
1,2-Dichloroethane-d4
Concen: 53.268 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.006 min
Lab File: VY022432.D
Acq: 27 May 2025 14:27

Tgt Ion: 65 Resp: 180844

Ion	Ratio	Lower	Upper
65	100		
67	52.5	0.0	104.4



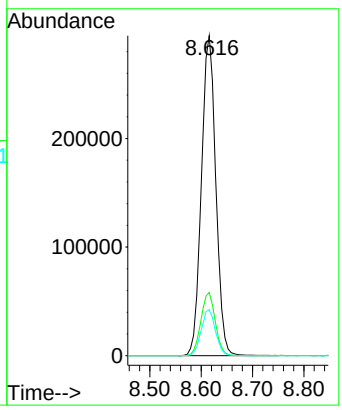


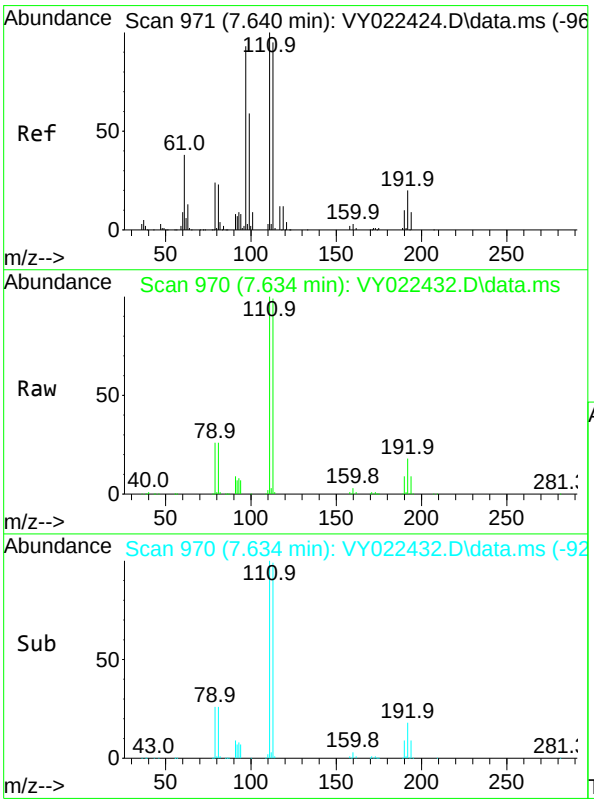
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY022432.D
Acq: 27 May 2025 14:27

Instrument :
MSVOA_Y
ClientSampleId :
BP-VPB-182-GW-500-502RE

Tgt Ion:114 Resp: 572594

Ion	Ratio	Lower	Upper
114	100		
63	19.8	0.0	42.6
88	14.4	0.0	29.4

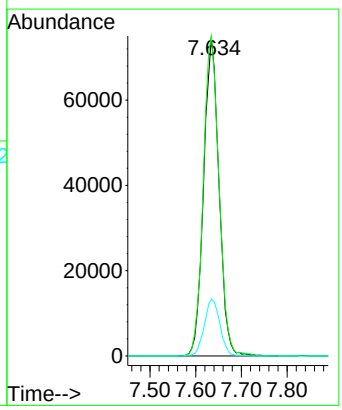


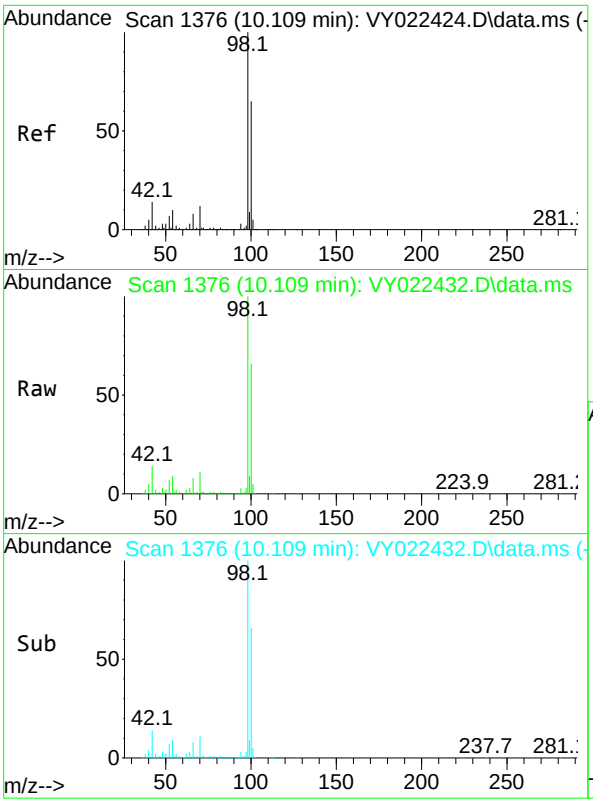


#35
Dibromofluoromethane
Concen: 51.909 ug/l
RT: 7.634 min Scan# 970
Delta R.T. -0.006 min
Lab File: VY022432.D
Acq: 27 May 2025 14:27

Tgt Ion:113 Resp: 174066

Ion	Ratio	Lower	Upper
113	100		
111	102.9	82.4	123.6
192	18.2	15.2	22.8



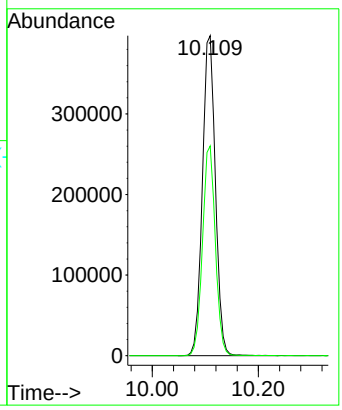


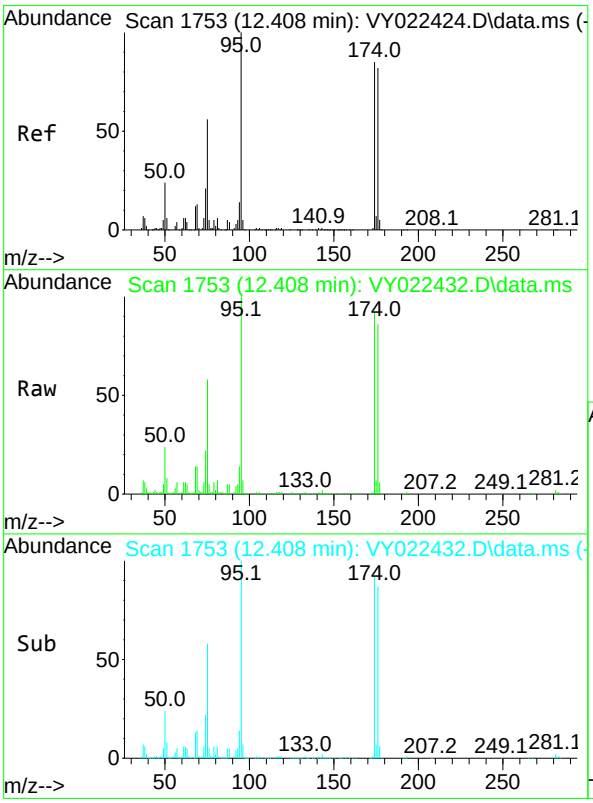
#50
Toluene-d8
Concen: 49.311 ug/l
RT: 10.109 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022432.D
Acq: 27 May 2025 14:27

Instrument :
MSVOA_Y
ClientSampleId :
BP-VPB-182-GW-500-502RE

Tgt Ion: 98 Resp: 674075

Ion	Ratio	Lower	Upper
98	100		
100	64.8	52.2	78.2

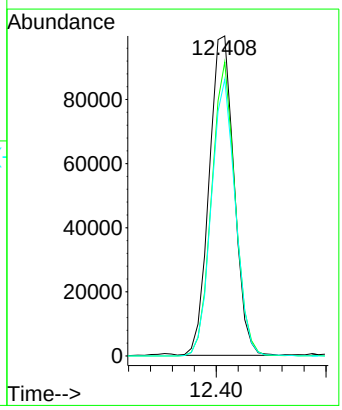


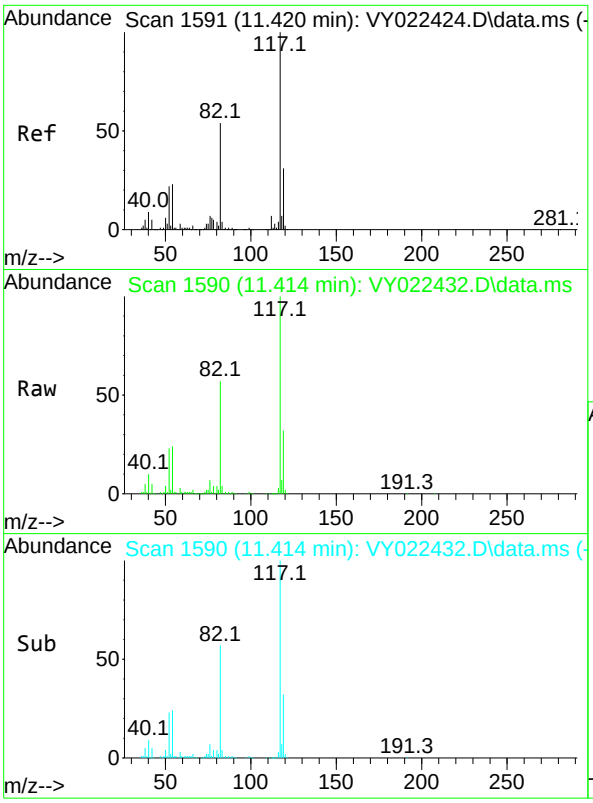


#62
4-Bromofluorobenzene
Concen: 38.005 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY022432.D
Acq: 27 May 2025 14:27

Tgt Ion: 95 Resp: 157149

Ion	Ratio	Lower	Upper
95	100		
174	86.8	0.0	171.6
176	83.5	0.0	164.6



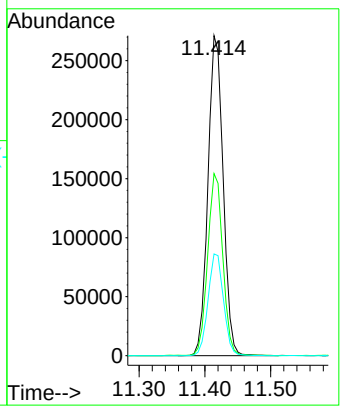


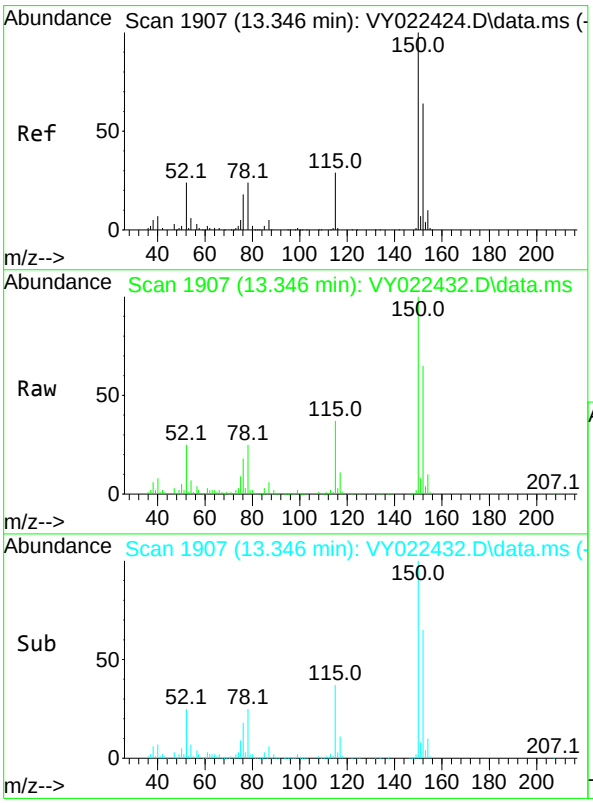
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022432.D
Acq: 27 May 2025 14:27

Instrument :
MSVOA_Y
ClientSampleId :
BP-VPB-182-GW-500-502RE

Tgt Ion:117 Resp: 436021

Ion	Ratio	Lower	Upper
117	100		
82	56.9	43.3	64.9
119	31.8	24.5	36.7

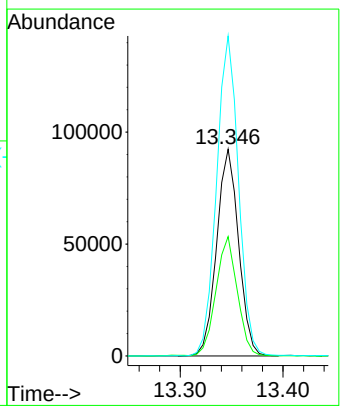


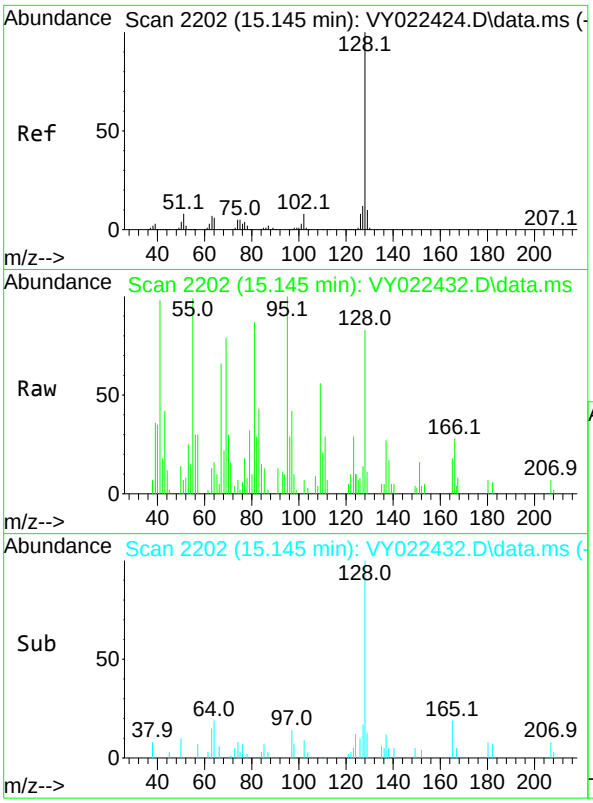


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY022432.D
Acq: 27 May 2025 14:27

Tgt Ion:152 Resp: 136693

Ion	Ratio	Lower	Upper
152	100		
115	56.7	28.4	85.3
150	155.3	0.0	345.8



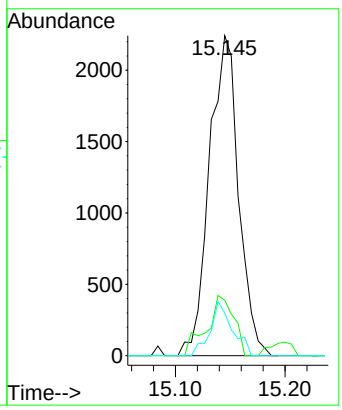


#95
Naphthalene
Concen: 1.043 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY022432.D
Acq: 27 May 2025 14:27

Instrument :
MSVOA_Y
ClientSampleId :
BP-VPB-182-GW-500-502RE

Tgt Ion:128 Resp: 4159

Ion	Ratio	Lower	Upper
128	100		
127	17.4	10.2	15.4#
129	12.8	8.5	12.7#



CALIBRATION SUMMARY

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2118 SAS No.: Q2118 SDG No.: Q2118

Instrument ID: MSVOA_X Calibration Date(s): 05/05/2025 05/05/2025

Heated Purge: (Y/N) N Calibration Time(s): 11:35 16:27

GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID: RRF020 = VX046041.D RRF050 = VX046042.D RRF100 = VX046043.D
RRF150 = VX046044.D RRF005 = VX046046.D RRF001 = VX046047.D

COMPOUND	RRF020	RRF050	RRF100	RRF150	RRF005	RRF001	$\overline{RRF}$	% RSD
Chloromethane	0.727	0.775	0.787	0.791	0.679	0.694	0.742	6.6
Vinyl Chloride	0.660	0.710	0.727	0.755	0.619	0.673	0.691	7.2
Bromomethane	0.296	0.326	0.340	0.334	0.305		0.320	5.8
Chloroethane	0.354	0.378	0.329	0.317	0.368	0.467	0.369	14.4
Trichlorofluoromethane	1.035	1.068	0.983	0.985	0.990	1.064	1.021	3.9
1,1,2-Trichlorotrifluoroethane	0.628	0.641	0.629	0.648	0.610	0.633	0.632	2.1
1,1-Dichloroethene	0.565	0.601	0.607	0.625	0.567	0.594	0.593	3.9
Acetone	0.361	0.362	0.361	0.370	0.408	0.380	0.374	4.9
Carbon Disulfide	1.295	1.455	1.522	1.597	1.141	1.423	1.406	11.7
Methyl tert-butyl Ether	2.044	2.160	2.172	2.239	1.908	1.949	2.079	6.4
Methylene Chloride	0.689	0.684	0.691	0.691	0.689	0.853	0.716	9.4
trans-1,2-Dichloroethene	0.573	0.610	0.612	0.622	0.557	0.604	0.596	4.3
1,1-Dichloroethane	1.233	1.263	1.263	1.286	1.154	1.116	1.219	5.6
2-Butanone	0.540	0.555	0.558	0.569	0.539	0.495	0.543	4.8
Carbon Tetrachloride	0.528	0.558	0.552	0.577	0.505	0.541	0.544	4.6
cis-1,2-Dichloroethene	0.716	0.737	0.738	0.755	0.642	0.719	0.718	5.5
Chloroform	1.287	1.296	1.277	1.300	1.199	1.265	1.271	3
1,1,1-Trichloroethane	1.106	1.131	1.155	1.188	1.013	1.015	1.101	6.6
Methylcyclohexane	0.596	0.641	0.627	0.658	0.587	0.627	0.623	4.3
Benzene	1.426	1.474	1.441	1.477	1.337	1.348	1.417	4.3
1,2-Dichloroethane	0.632	0.627	0.611	0.625	0.594	0.579	0.612	3.5
Trichloroethene	0.344	0.355	0.345	0.362	0.315	0.324	0.341	5.3
1,2-Dichloropropane	0.356	0.371	0.368	0.378	0.324	0.317	0.352	7.4
Bromodichloromethane	0.557	0.577	0.573	0.594	0.498	0.485	0.547	8.2
4-Methyl-2-Pentanone	0.620	0.634	0.630	0.631	0.555	0.561	0.605	6
Toluene	0.884	0.898	0.885	0.904	0.838	0.803	0.869	4.5
t-1,3-Dichloropropene	0.468	0.528	0.555	0.591	0.406	0.371	0.487	17.9
cis-1,3-Dichloropropene	0.531	0.578	0.602	0.623	0.469	0.423	0.538	14.6
1,1,2-Trichloroethane	0.349	0.354	0.351	0.356	0.337	0.308	0.343	5.3
2-Hexanone	0.466	0.473	0.477	0.473	0.414	0.385	0.448	8.7

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2118 SAS No.: Q2118 SDG No.: Q2118

Instrument ID: MSVOA_X Calibration Date(s): 05/05/2025 05/05/2025

Heated Purge: (Y/N) N Calibration Time(s): 11:35 16:27

GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID: RRF020 = VX046041.D RRF050 = VX046042.D RRF100 = VX046043.D
RRF150 = VX046044.D RRF005 = VX046046.D RRF001 = VX046047.D

COMPOUND	RRF020	RRF050	RRF100	RRF150	RRF005	RRF001	$\overline{RRF}$	% RSD
Dibromochloromethane	0.378	0.400	0.415	0.431	0.326	0.306	0.376	13.3
Tetrachloroethene	0.390	0.375	0.345	0.344	0.323	0.347	0.354	6.8
Chlorobenzene	1.093	1.098	1.085	1.114	1.046	1.131	1.094	2.7
Ethyl Benzene	1.919	2.022	1.979	2.036	1.816	1.803	1.929	5.2
m/p-Xylenes	0.706	0.740	0.721	0.740	0.678	0.648	0.706	5.2
o-Xylene	0.688	0.727	0.706	0.726	0.639	0.642	0.688	5.7
Styrene	1.135	1.219	1.214	1.230	1.012	0.951	1.127	10.6
Bromoform	0.270	0.304	0.312	0.327	0.236	0.234	0.281	14.2
Isopropylbenzene	3.843	4.130	3.876	4.156	3.562	3.789	3.893	5.7
1,1,2,2-Tetrachloroethane	1.315	1.338	1.284	1.345	1.350	1.552	1.364	7
1,3-Dichlorobenzene	1.633	1.701	1.656	1.730	1.558	1.619	1.649	3.7
1,4-Dichlorobenzene	1.629	1.693	1.639	1.722	1.606	1.817	1.684	4.6
1,2-Dichlorobenzene	1.613	1.696	1.634	1.702	1.577	1.710	1.655	3.3
1,2-Dichloroethane-d4	0.953	0.910	0.930	0.932	0.935		0.932	1.6
Dibromofluoromethane	0.359	0.355	0.364	0.368	0.354		0.360	1.7
Toluene-d8	1.246	1.223	1.266	1.275	1.221		1.246	2
4-Bromofluorobenzene	0.455	0.470	0.500	0.500	0.464		0.478	4.4

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Response Factor Report MSVOA_X2

Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\
Method File : 82X050525W.M
Title : SW846 8260
Last Update : Tue May 06 07:12:22 2025
Response Via : Initial Calibration

Calibration Files
1 =VX046047.D 5 =VX046046.D 20 =VX046041.D 50 =VX046042.D 100 =VX046043.D 150 =VX046044.D

		Compound	1	5	20	50	100	150	Avg	%RSD
1)	I	Pentafluorobenzene	----------ISTD----------							
2)	T	Dichlorodifluo...	0.658	0.639	0.697	0.864	0.859	0.875	0.765	14.62
3)	P	Chloromethane	0.694	0.679	0.727	0.775	0.787	0.791	0.742	6.58
4)	C	Vinyl Chloride	0.673	0.619	0.660	0.710	0.727	0.755	0.691	7.17#
5)	T	Bromomethane		0.305	0.296	0.326	0.340	0.334	0.320	5.84
6)	T	Chloroethane	0.467	0.368	0.354	0.378	0.329	0.317	0.369	14.44
7)	T	Trichlorofluor...	1.064	0.990	1.035	1.068	0.983	0.985	1.021	3.92
8)	T	Diethyl Ether	0.403	0.311	0.340	0.337	0.338	0.355	0.347	8.83
9)	T	1,1,2-Trichlor...	0.633	0.610	0.628	0.641	0.629	0.648	0.632	2.10
10)	T	Methyl Iodide		0.608	0.767	0.806	0.793	0.763	0.747	10.68
11)	T	Tert butyl alc...		0.114	0.122	0.129	0.144	0.146	0.131	10.45
12)	CM	1,1-Dichloroet...	0.594	0.567	0.565	0.601	0.607	0.625	0.593	3.94#
13)	T	Acrolein		0.117	0.158	0.152	0.154	0.163	0.149	12.33
14)	T	Allyl chloride	1.052	1.058	1.127	1.179	1.187	1.196	1.133	5.75
15)	T	Acrylonitrile	0.363	0.345	0.378	0.388	0.381	0.390	0.374	4.52
16)	T	Acetone	0.380	0.408	0.361	0.362	0.361	0.370	0.374	4.90
17)	T	Carbon Disulfide	1.423	1.141	1.295	1.455	1.522	1.597	1.406	11.68
18)	T	Methyl Acetate	1.006	0.816	0.814	0.848	0.845	0.875	0.867	8.27
19)	T	Methyl tert-bu...	1.949	1.908	2.044	2.160	2.172	2.239	2.079	6.39
20)	T	Methylene Chlo...	0.853	0.689	0.689	0.684	0.691	0.691	0.716	9.39
21)	T	trans-1,2-Dich...	0.604	0.557	0.573	0.610	0.612	0.622	0.596	4.27
22)	T	Diisopropyl ether	2.095	1.924	2.219	2.278	2.295	2.321	2.189	6.97
23)	T	Vinyl Acetate	1.660	1.698	1.928	2.048	2.082	2.134	1.925	10.52
24)	P	1,1-Dichloroet...	1.116	1.154	1.233	1.263	1.263	1.286	1.219	5.60
25)	T	2-Butanone	0.495	0.539	0.540	0.555	0.558	0.569	0.543	4.77
26)	T	2,2-Dichloropr...	0.965	0.850	0.910	0.957	1.003	1.039	0.954	7.03
27)	T	cis-1,2-Dichlo...	0.719	0.642	0.716	0.737	0.738	0.755	0.718	5.55
28)	T	Bromochloromet...	0.576	0.553	0.628	0.578	0.595	0.590	0.587	4.28
29)	T	Tetrahydrofuran	0.318	0.318	0.340	0.350	0.351	0.362	0.340	5.36
30)	C	Chloroform	1.265	1.199	1.287	1.296	1.277	1.300	1.271	2.95#
31)	T	Cyclohexane		1.059	1.090	1.128	1.128	1.150	1.111	3.26
32)	T	1,1,1-Trichlor...	1.015	1.013	1.106	1.131	1.155	1.188	1.101	6.60
33)	S	1,2-Dichloroet...		0.935	0.953	0.910	0.930	0.932	0.932	1.65
34)	I	1,4-Difluorobenzene	----------ISTD----------							
35)	S	Dibromofluorom...		0.354	0.359	0.355	0.364	0.368	0.360	1.70
36)	T	1,1-Dichloropr...	0.493	0.462	0.463	0.495	0.483	0.505	0.484	3.68
37)	T	Ethyl Acetate	0.586	0.582	0.569	0.611	0.609	0.631	0.598	3.83
38)	T	Carbon Tetrach...	0.541	0.505	0.528	0.558	0.552	0.577	0.544	4.61
39)	T	Methylcyclohexane	0.627	0.587	0.596	0.641	0.627	0.658	0.623	4.34
40)	TM	Benzene	1.348	1.337	1.426	1.474	1.441	1.477	1.417	4.30
41)	T	Methacrylonitrile	0.233	0.288	0.318	0.346	0.343	0.348	0.313	14.50
42)	TM	1,2-Dichloroet...	0.579	0.594	0.632	0.627	0.611	0.625	0.612	3.45
43)	T	Isopropyl Acetate	0.764	0.826	0.905	0.963	0.982	1.030	0.912	11.05
44)	TM	Trichloroethene	0.324	0.315	0.344	0.355	0.345	0.362	0.341	5.28
45)	C	1,2-Dichloropr...	0.317	0.324	0.356	0.371	0.368	0.378	0.352	7.37#
46)	T	Dibromomethane	0.263	0.262	0.285	0.287	0.280	0.289	0.278	4.35
47)	T	Bromodichlorom...	0.485	0.498	0.557	0.577	0.573	0.594	0.547	8.22
48)	T	Methyl methacr...	0.370	0.426	0.465	0.502	0.500	0.531	0.466	12.75
49)	T	1,4-Dioxane	0.007	0.009	0.009	0.009	0.009	0.010	0.009	8.45
50)	S	Toluene-d8		1.221	1.246	1.223	1.266	1.275	1.246	1.95
51)	T	4-Methyl-2-Pen...	0.561	0.555	0.620	0.634	0.630	0.631	0.605	6.04
52)	CM	Toluene	0.803	0.838	0.884	0.898	0.885	0.904	0.869	4.54#
53)	T	t-1,3-Dichloro...	0.371	0.406	0.468	0.528	0.555	0.591	0.487	17.86
54)	T	cis-1,3-Dichlo...	0.423	0.469	0.531	0.578	0.602	0.623	0.538	14.61
55)	T	1,1,2-Trichlor...	0.308	0.337	0.349	0.354	0.351	0.356	0.343	5.30
56)	T	Ethyl methacry...	0.377	0.508	0.540	0.595	0.617	0.639	0.546	17.58

Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\
Method File : 82X050525W.M

57)	T	1,3-Dichloropr...	0.610	0.601	0.618	0.623	0.613	0.627	0.615	1.53
58)	T	2-Chloroethyl ...	0.230	0.247	0.270	0.307	0.303	0.313	0.278	12.41
59)	T	2-Hexanone	0.385	0.414	0.466	0.473	0.477	0.473	0.448	8.69
60)	T	Dibromochlorom...	0.306	0.326	0.378	0.400	0.415	0.431	0.376	13.28
61)	T	1,2-Dibromoethane	0.322	0.333	0.359	0.373	0.368	0.381	0.356	6.54
62)	S	4-Bromofluorob...		0.464	0.455	0.470	0.500	0.500	0.478	4.41
63)	I	Chlorobenzene-d5	----------ISTD----------							
64)	T	Tetrachloroethene	0.347	0.323	0.390	0.375	0.345	0.344	0.354	6.84
65)	PM	Chlorobenzene	1.131	1.046	1.093	1.098	1.085	1.114	1.094	2.65
66)	T	1,1,1,2-Tetrac...	0.369	0.341	0.365	0.390	0.382	0.395	0.374	5.22
67)	C	Ethyl Benzene	1.803	1.816	1.919	2.022	1.979	2.036	1.929	5.24#
68)	T	m/p-Xylenes	0.648	0.678	0.706	0.740	0.721	0.740	0.706	5.21
69)	T	o-Xylene	0.642	0.639	0.688	0.727	0.706	0.726	0.688	5.75
70)	T	Styrene	0.951	1.012	1.135	1.219	1.214	1.230	1.127	10.56
71)	P	Bromoform	0.234	0.236	0.270	0.304	0.312	0.327	0.281	14.17
72)	I	1,4-Dichlorobenzen...	----------ISTD----------							
73)	T	Isopropylbenzene	3.789	3.562	3.843	4.130	3.876	4.156	3.893	5.72
74)	T	N-amyl acetate	1.715	1.652	1.846	2.067	2.068	2.192	1.924	11.32
75)	P	1,1,2,2-Tetrac...	1.552	1.350	1.315	1.338	1.284	1.345	1.364	6.97
76)	T	1,2,3-Trichlor...	1.405	1.167	1.151	1.187	1.131	1.181	1.204	8.36
77)	T	Bromobenzene	0.926	0.862	0.896	0.928	0.883	0.928	0.904	3.08
78)	T	n-propylbenzene	4.272	4.186	4.394	4.854	4.583	4.868	4.526	6.45
79)	T	2-Chlorotoluene	3.184	2.748	2.832	2.994	2.805	2.953	2.919	5.45
80)	T	1,3,5-Trimethy...	3.036	3.053	3.275	3.487	3.255	3.405	3.252	5.60
81)	T	trans-1,4-Dich...		0.269	0.335	0.385	0.410	0.449	0.370	18.91
82)	T	4-Chlorotoluene	3.226	2.939	3.196	3.430	3.255	3.379	3.238	5.32
83)	T	tert-Butylbenzene	3.341	3.098	3.115	3.435	3.255	3.411	3.276	4.44
84)	T	1,2,4-Trimethy...	3.150	3.034	3.274	3.522	3.335	3.444	3.293	5.52
85)	T	sec-Butylbenzene	3.708	3.767	3.937	4.282	4.095	4.343	4.022	6.55
86)	T	p-Isopropyltol...	3.025	3.084	3.206	3.555	3.450	3.599	3.320	7.44
87)	T	1,3-Dichlorobe...	1.619	1.558	1.633	1.701	1.656	1.729	1.649	3.71
88)	T	1,4-Dichlorobe...	1.817	1.606	1.629	1.693	1.639	1.722	1.684	4.64
89)	T	n-Butylbenzene	2.443	2.650	2.748	3.147	3.139	3.346	2.912	12.00
90)	T	Hexachloroethane	0.511	0.523	0.551	0.622	0.622	0.680	0.585	11.44
91)	T	1,2-Dichlorobe...	1.710	1.577	1.613	1.696	1.634	1.702	1.655	3.34
92)	T	1,2-Dibromo-3-...	0.259	0.248	0.299	0.322	0.329	0.356	0.302	13.89
93)	T	1,2,4-Trichlor...	0.862	0.842	0.861	0.981	1.035	1.123	0.951	12.03
94)	T	Hexachlorobuta...	0.393	0.414	0.394	0.427	0.418	0.445	0.415	4.79
95)	T	Naphthalene	3.499	2.929	3.204	3.613	3.690	3.984	3.487	10.69
96)	T	1,2,3-Trichlor...	0.941	0.846	0.921	1.019	1.051	1.107	0.981	9.74

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046041.D
Acq On : 05 May 2025 11:35
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

Quant Time: May 06 06:08:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.543	168	83671	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	147096	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	127829	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	60503	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	31909	12.820	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	25.640%#		
35) Dibromofluoromethane	5.385	113	21112	12.804	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	25.600%#		
50) Toluene-d8	8.646	98	73333	13.200	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	26.400%#		
62) 4-Bromofluorobenzene	11.079	95	26760	13.236	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	26.480%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	23341	12.638	ug/l	96
3) Chloromethane	1.306	50	24316	13.371	ug/l	98
4) Vinyl Chloride	1.373	62	22096	13.868	ug/l	94
5) Bromomethane	1.593	94	9920	12.279	ug/l	93
6) Chloroethane	1.666	64	11832	14.414	ug/l	95
7) Trichlorofluoromethane	1.873	101	34636	14.271	ug/l	100
8) Diethyl Ether	2.129	74	11392	14.278	ug/l	94
9) 1,1,2-Trichlorotrifluo...	2.324	101	21027	14.499	ug/l	98
10) Methyl Iodide	2.446	142	25661	15.070	ug/l	99
11) Tert butyl alcohol	2.971	59	20370	68.662	ug/l	97
12) 1,1-Dichloroethene	2.312	96	18899	13.385	ug/l	98
13) Acrolein	2.233	56	26427	76.689	ug/l	95
14) Allyl chloride	2.660	41	37708	14.133	ug/l	99
15) Acrylonitrile	3.062	53	63290	71.312	ug/l	98
16) Acetone	2.379	43	60363	70.884	ug/l	99
17) Carbon Disulfide	2.501	76	43348	13.251	ug/l	100
18) Methyl Acetate	2.702	43	27234	13.397	ug/l	99
19) Methyl tert-butyl Ether	3.111	73	68402	13.890	ug/l	100
20) Methylene Chloride	2.782	84	23050	13.362	ug/l	96
21) trans-1,2-Dichloroethene	3.086	96	19161	13.294	ug/l	96
22) Diisopropyl ether	3.763	45	74257	14.896	ug/l	95
23) Vinyl Acetate	3.720	43	322598	73.230	ug/l	100
24) 1,1-Dichloroethane	3.605	63	41257	14.082	ug/l	98
25) 2-Butanone	4.556	43	90331	73.489	ug/l	98
26) 2,2-Dichloropropane	4.470	77	30472	13.729	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	23970	13.791	ug/l	98
28) Bromochloromethane	4.897	49	21028	13.497	ug/l	99
29) Tetrahydrofuran	5.007	42	56819	71.175	ug/l	100
30) Chloroform	5.086	83	43065	14.144	ug/l	95
31) Cyclohexane	5.458	56	36470	14.769	ug/l	95
32) 1,1,1-Trichloroethane	5.379	97	37003	14.092	ug/l	98
36) 1,1-Dichloropropene	5.684	75	27242	14.231	ug/l	98
37) Ethyl Acetate	4.720	43	33458	13.931	ug/l	98
38) Carbon Tetrachloride	5.671	117	31091	14.137	ug/l	98
39) Methylcyclohexane	7.372	83	35077	14.623	ug/l	99
40) Benzene	6.031	78	83898	14.140	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046041.D
Acq On : 05 May 2025 11:35
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

Quant Time: May 06 06:08:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.915	41	18732	14.038	ug/l		95
42) 1,2-Dichloroethane	6.080	62	37203	15.165	ug/l		100
43) Isopropyl Acetate	6.342	43	53275	14.512	ug/l		99
44) Trichloroethene	7.116	130	20239	14.429	ug/l		99
45) 1,2-Dichloropropane	7.427	63	20940	14.204	ug/l		98
46) Dibromomethane	7.580	93	16781	14.439	ug/l		99
47) Bromodichloromethane	7.817	83	32762	14.545	ug/l		94
48) Methyl methacrylate	7.689	41	27374	14.521	ug/l		100
49) 1,4-Dioxane	7.659	88	10585	282.442	ug/l		98
51) 4-Methyl-2-Pentanone	8.573	43	182455	75.775	ug/l		98
52) Toluene	8.713	92	52030	14.788	ug/l		99
53) t-1,3-Dichloropropene	8.976	75	27549	14.566	ug/l		100
54) cis-1,3-Dichloropropene	8.366	75	31226	14.154	ug/l		98
55) 1,1,2-Trichloroethane	9.152	97	20536	14.442	ug/l		96
56) Ethyl methacrylate	9.116	69	31787	14.425	ug/l		98
57) 1,3-Dichloropropane	9.305	76	36341	14.417	ug/l		98
58) 2-Chloroethyl Vinyl ether	8.238	63	79531	80.312	ug/l		100
59) 2-Hexanone	9.427	43	137054	74.997	ug/l		99
60) Dibromochloromethane	9.518	129	22267	14.387	ug/l		99
61) 1,2-Dibromoethane	9.610	107	21113	14.458	ug/l		96
64) Tetrachloroethene	9.268	164	19924	15.263	ug/l		97
65) Chlorobenzene	10.079	112	55863	14.202	ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.158	131	18671	14.231	ug/l		98
67) Ethyl Benzene	10.189	91	98113	14.631	ug/l		100
68) m/p-Xylenes	10.299	106	72202	29.806	ug/l		99
69) o-Xylene	10.640	106	35178	14.408	ug/l		96
70) Styrene	10.652	104	58034	14.853	ug/l		98
71) Bromoform	10.799	173	13825	14.030	ug/l	#	100
73) Isopropylbenzene	10.957	105	93013	14.096	ug/l		99
74) N-amyl acetate	10.841	43	44684	13.581	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.207	83	31830	13.560	ug/l		99
76) 1,2,3-Trichloropropane	11.237	75	27845m	11.039	ug/l		
77) Bromobenzene	11.195	156	21695	14.212	ug/l		96
78) n-propylbenzene	11.298	91	106337	14.376	ug/l		99
79) 2-Chlorotoluene	11.359	91	68534	13.748	ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	79261	14.468	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	8104	13.371	ug/l		91
82) 4-Chlorotoluene	11.451	91	77338	14.116	ug/l		100
83) tert-Butylbenzene	11.713	119	75382	14.011	ug/l		99
84) 1,2,4-Trimethylbenzene	11.750	105	79232	14.480	ug/l		99
85) sec-Butylbenzene	11.890	105	95271	14.263	ug/l		100
86) p-Isopropyltoluene	12.006	119	77599	14.387	ug/l		98
87) 1,3-Dichlorobenzene	11.969	146	39520	13.898	ug/l		98
88) 1,4-Dichlorobenzene	12.036	146	39419	14.146	ug/l		99
89) n-Butylbenzene	12.329	91	66506	14.184	ug/l		99
90) Hexachloroethane	12.536	117	13332	13.287	ug/l		100
91) 1,2-Dichlorobenzene	12.335	146	39031	14.092	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	12.938	75	7232	13.535	ug/l		99
93) 1,2,4-Trichlorobenzene	13.585	180	20846	13.745	ug/l		99
94) Hexachlorobutadiene	13.725	225	9524	13.426	ug/l		97
95) Naphthalene	13.774	128	77542	14.040	ug/l		99
96) 1,2,3-Trichlorobenzene	13.956	180	22301	14.023	ug/l		97

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046041.D
Acq On : 05 May 2025 11:35
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

Quant Time: May 06 06:08:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

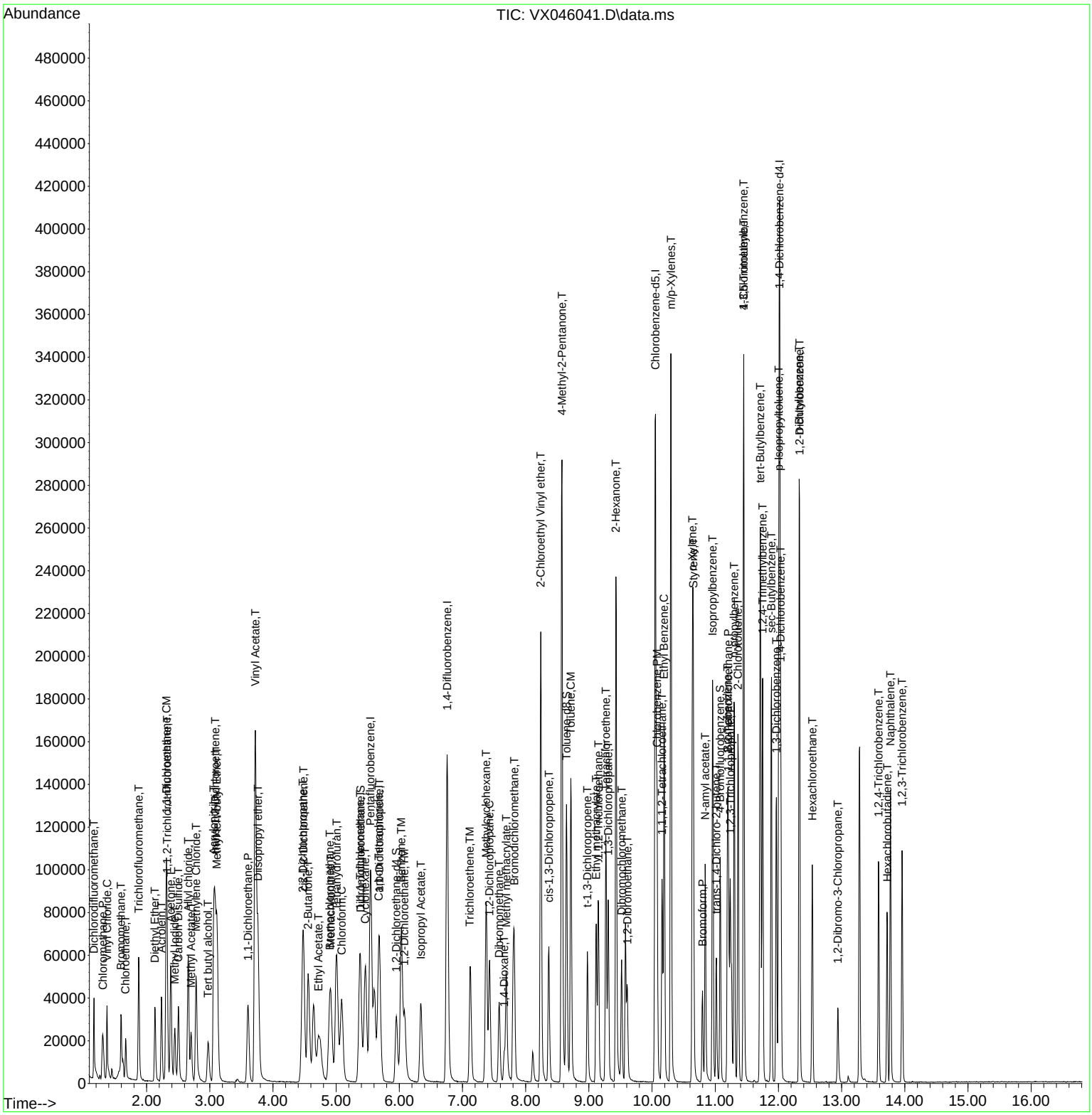
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046041.D
Acq On : 05 May 2025 11:35
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

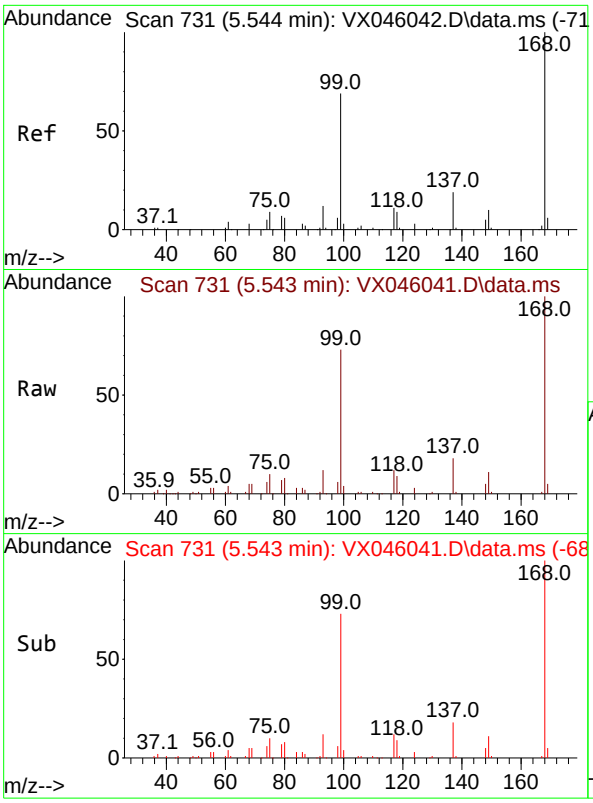
Quant Time: May 06 06:08:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

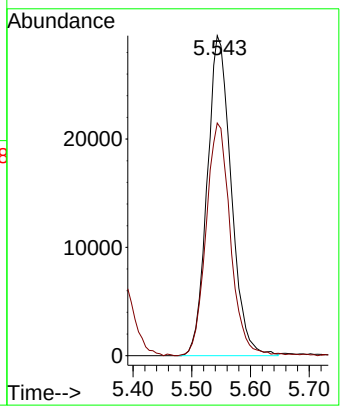




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.543 min Scan# 7
Delta R.T. -0.001 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion:168 Resp: 8367

Ion	Ratio	Lower	Upper
168	100		
99	72.7	54.9	82.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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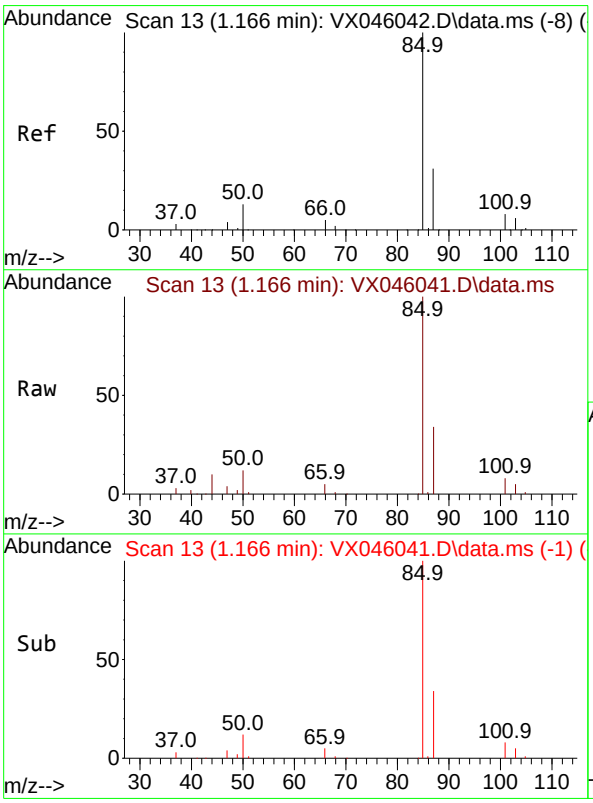
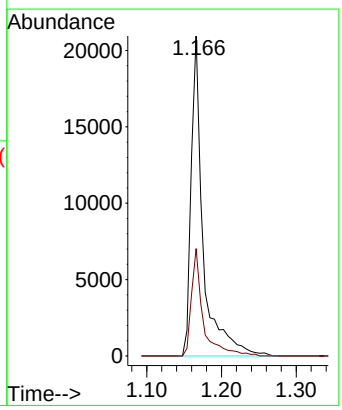
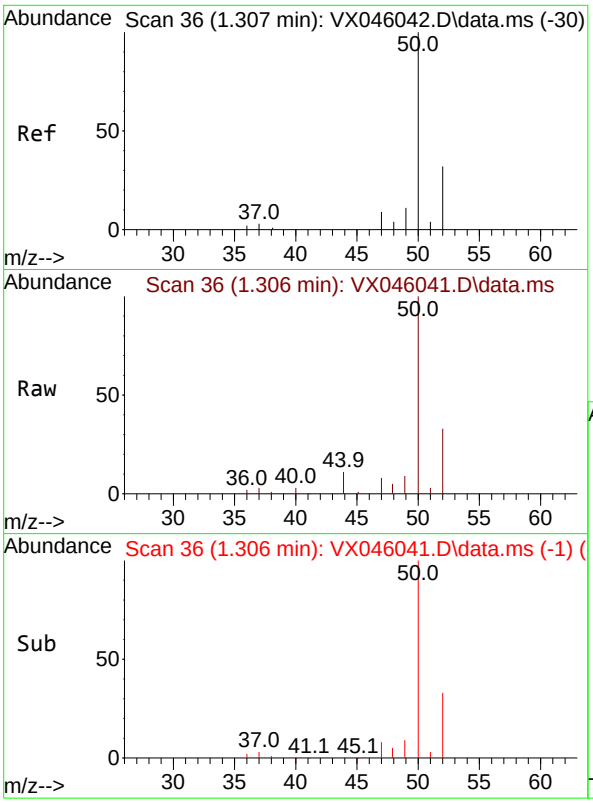


#2
Dichlorodifluoromethane
Concen: 12.638 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 85 Resp: 23341

Ion	Ratio	Lower	Upper
85	100		
87	33.5	15.7	47.1

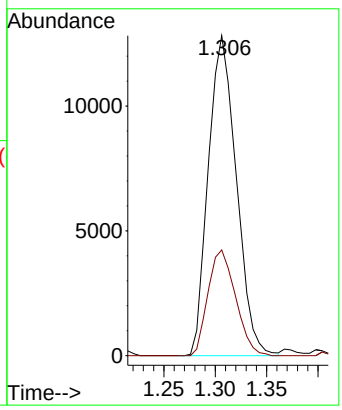




#3
Chloromethane
Concen: 13.371 ug/l
RT: 1.306 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 50 Resp: 2431

Ion	Ratio	Lower	Upper
50	100		
52	33.0	25.4	38.2



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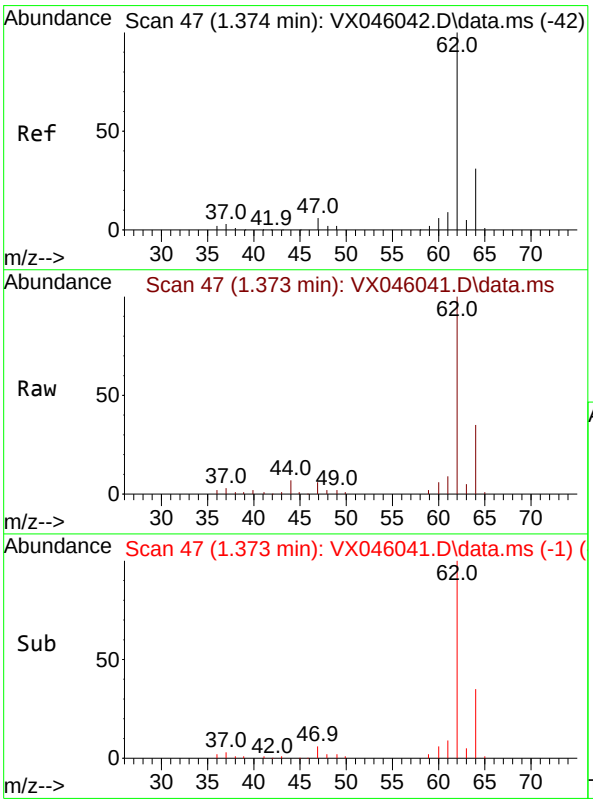
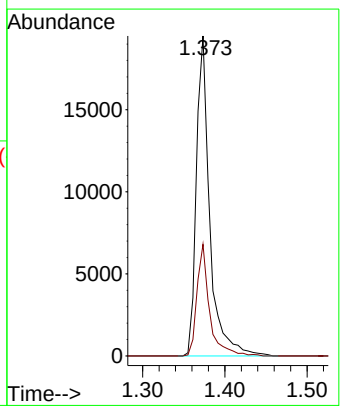
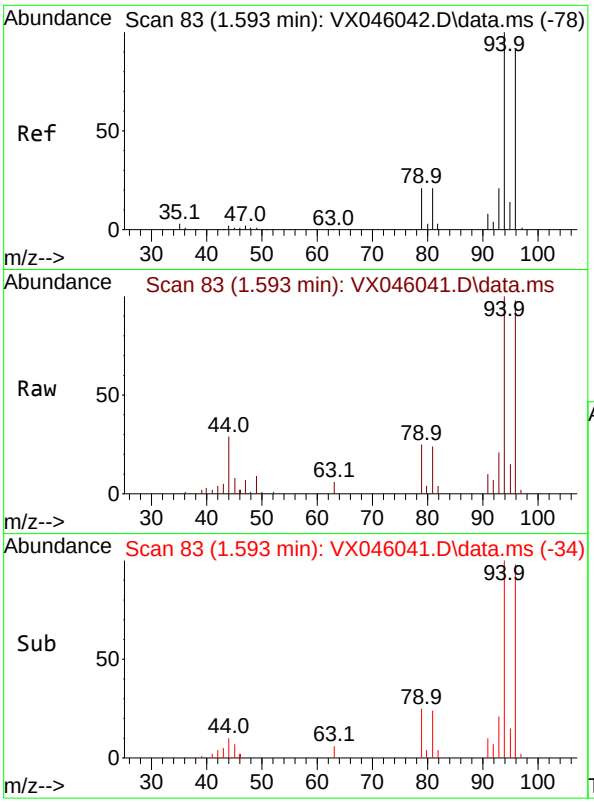


#4
Vinyl Chloride
Concen: 13.868 ug/l
RT: 1.373 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 62 Resp: 22096

Ion	Ratio	Lower	Upper
62	100		
64	34.9	25.2	37.8

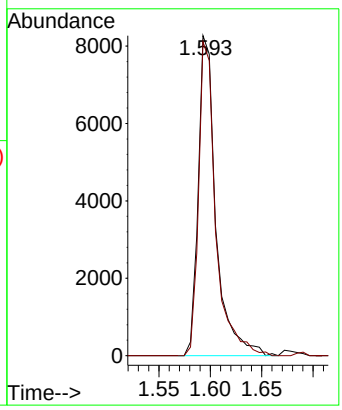




#5
Bromomethane
Concen: 12.279 ug/l
RT: 1.593 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 94 Resp: 992

Ion	Ratio	Lower	Upper
94	100		
96	98.1	72.8	109.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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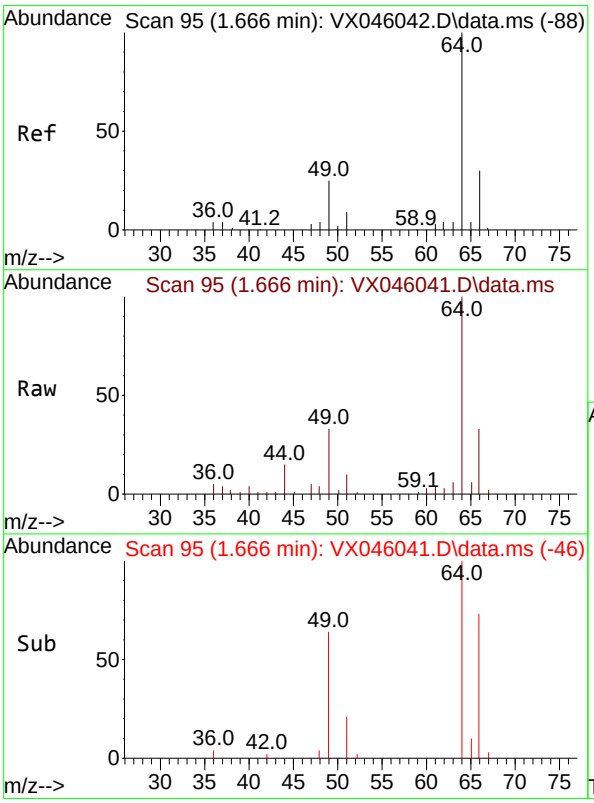
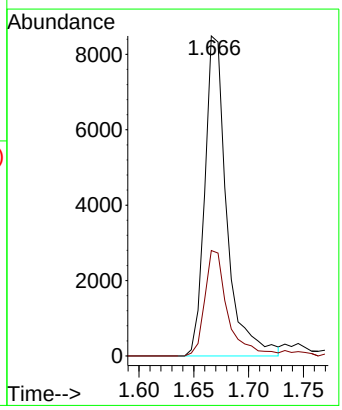
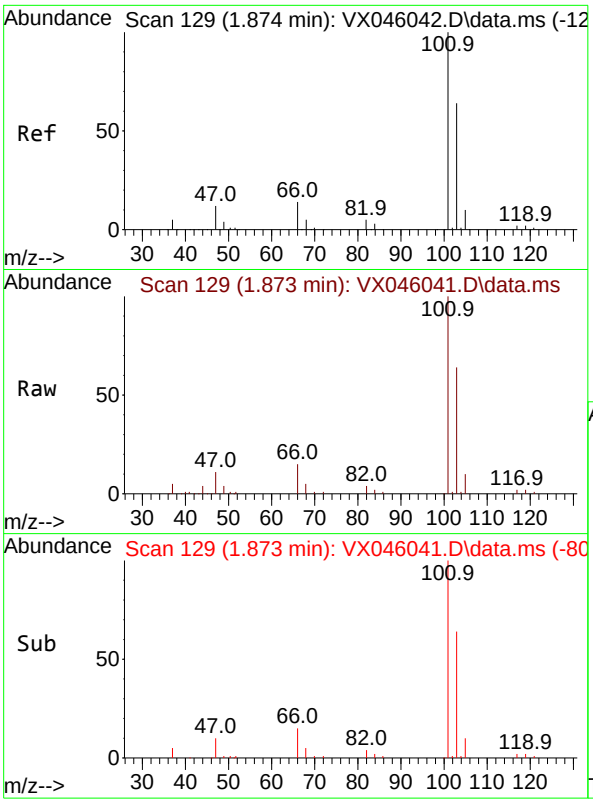


#6
Chloroethane
Concen: 14.414 ug/l
RT: 1.666 min Scan# 95
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 64 Resp: 11832

Ion	Ratio	Lower	Upper
64	100		
66	32.9	24.3	36.5

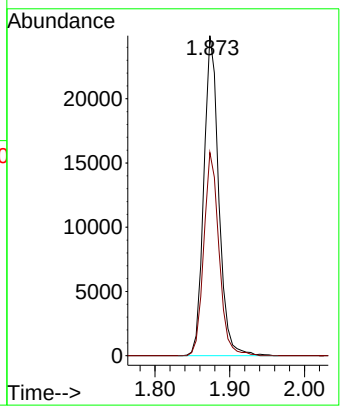




#7
Trichlorofluoromethane
Concen: 14.271 ug/l
RT: 1.873 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion:101 Resp: 3463

Ion	Ratio	Lower	Upper
101	100		
103	63.5	51.0	76.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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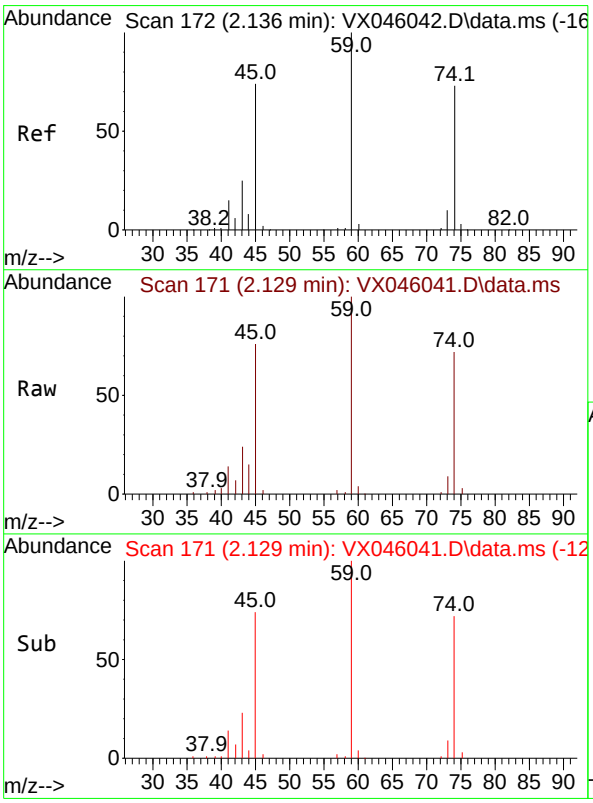
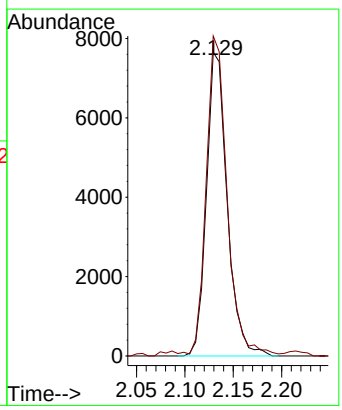
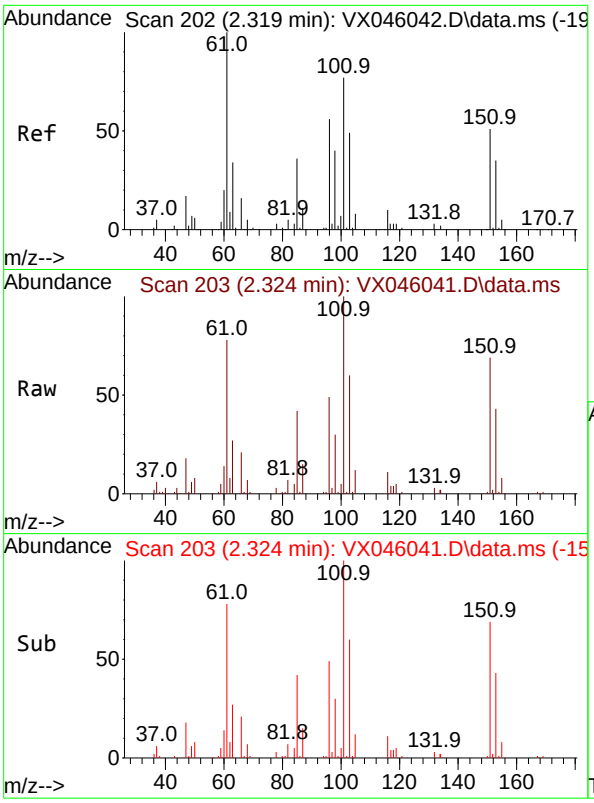


#8
Diethyl Ether
Concen: 14.278 ug/l
RT: 2.129 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 74 Resp: 11392

Ion	Ratio	Lower	Upper
74	100		
45	103.7	54.9	164.8

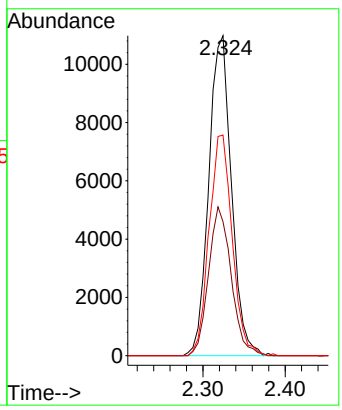




#9
1,1,2-Trichlorotrifluoroethane
Concen: 14.499 ug/l
RT: 2.324 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion:101 Resp: 2102

Ion	Ratio	Lower	Upper
101	100		
85	46.6	38.6	58.0
151	70.4	55.2	82.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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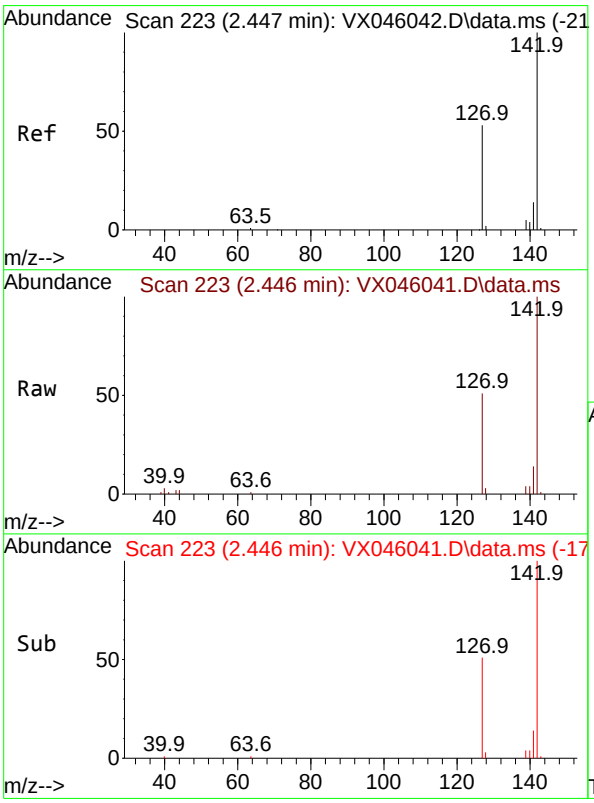
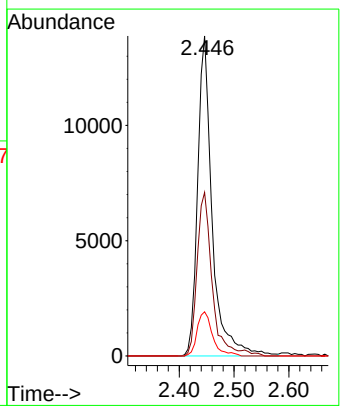
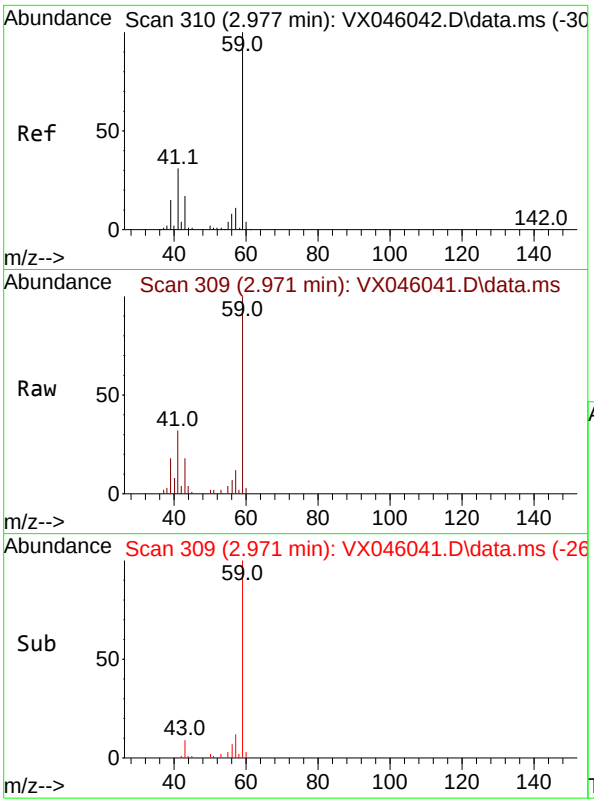


#10
Methyl Iodide
Concen: 15.070 ug/l
RT: 2.446 min Scan# 223
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion:142 Resp: 25661

Ion	Ratio	Lower	Upper
142	100		
127	53.0	41.7	62.5
141	14.7	11.5	17.3

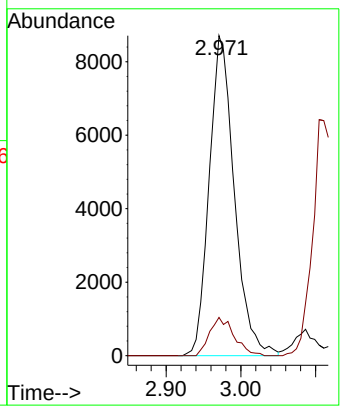




#11
Tert butyl alcohol
Concen: 68.662 ug/l
RT: 2.971 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 59 Resp: 2037

Ion	Ratio	Lower	Upper
59	100		
57	11.7	8.6	12.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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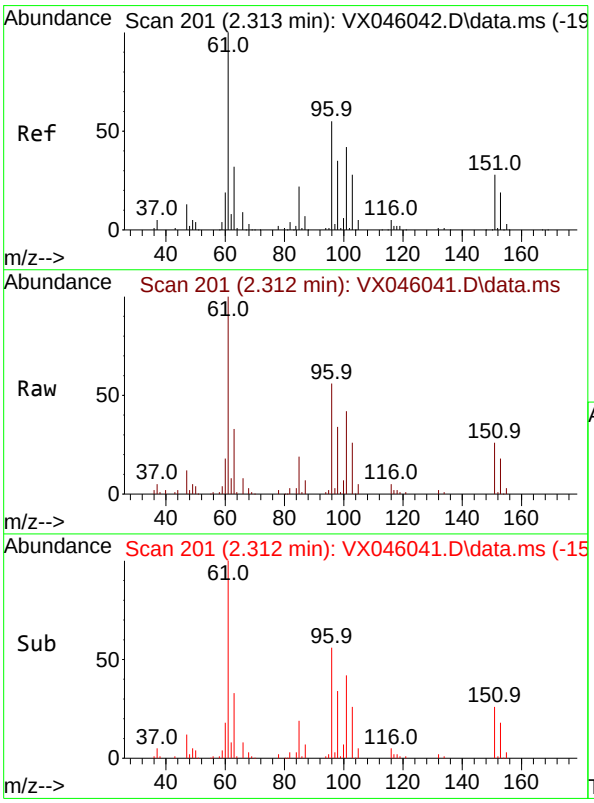
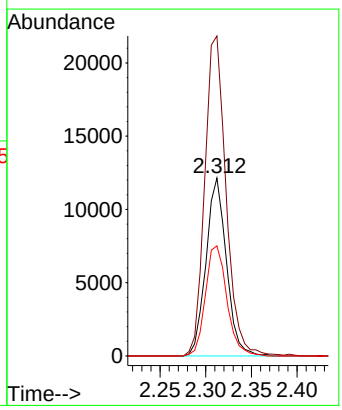
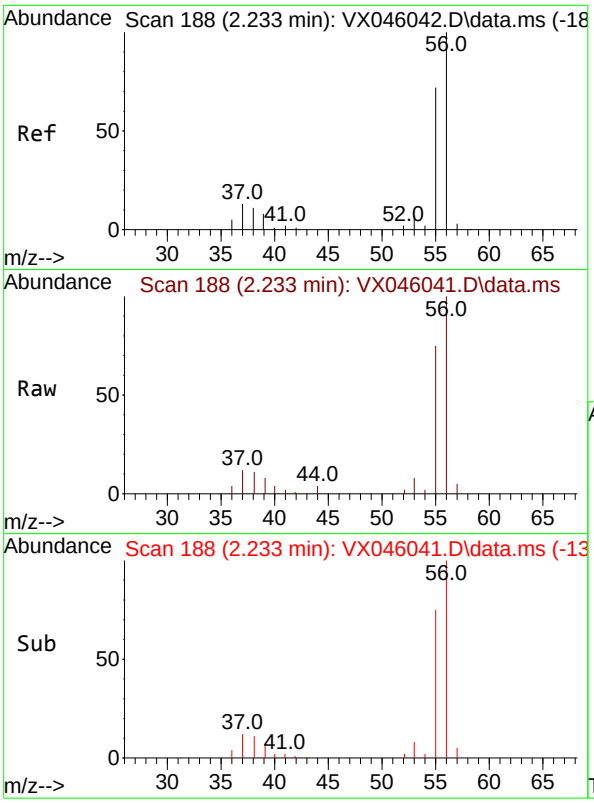


#12
1,1-Dichloroethene
Concen: 13.385 ug/l
RT: 2.312 min Scan# 201
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 96 Resp: 18899

Ion	Ratio	Lower	Upper
96	100		
61	179.8	146.2	219.2
98	61.8	51.0	76.6

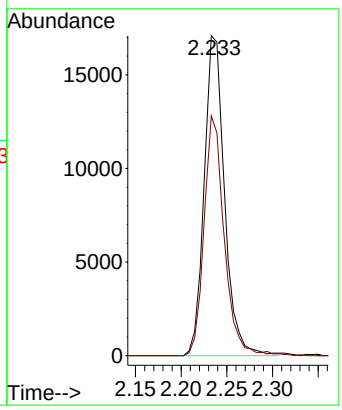




#13
Acrolein
Concen: 76.689 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 56 Resp: 2642

Ion	Ratio	Lower	Upper
56	100		
55	74.3	56.2	84.4



Instrument :
MSVOA_X
ClientSampleId :
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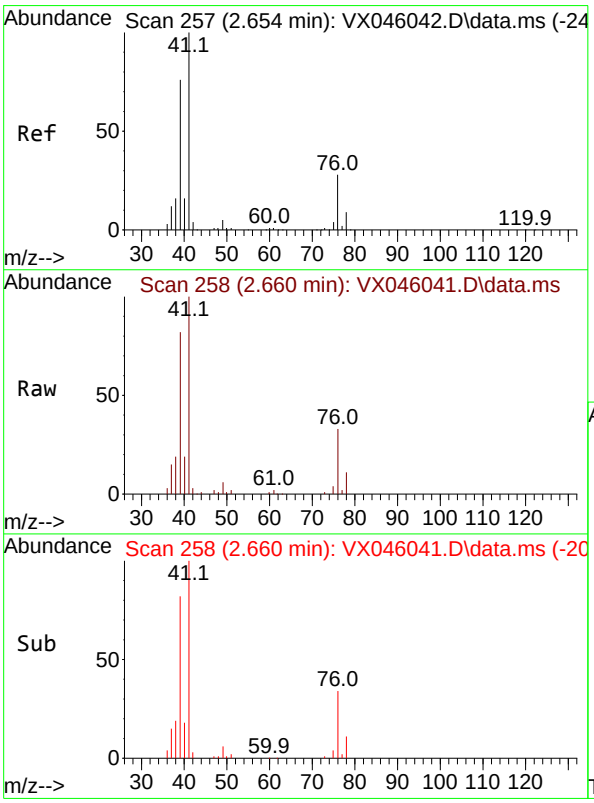
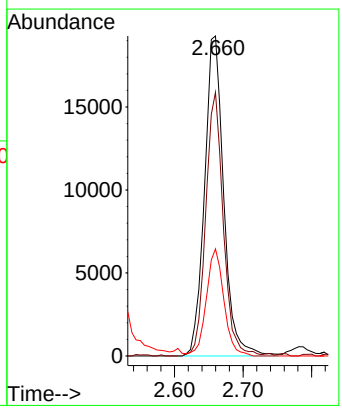
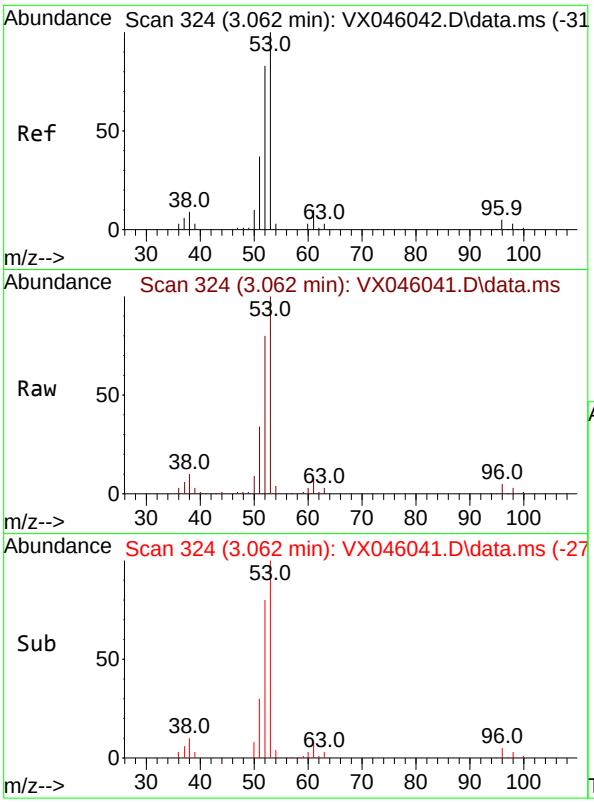


#14
Allyl chloride
Concen: 14.133 ug/l
RT: 2.660 min Scan# 258
Delta R.T. 0.006 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 41 Resp: 37708

Ion	Ratio	Lower	Upper
41	100		
39	75.0	60.6	90.8
76	30.6	24.9	37.3

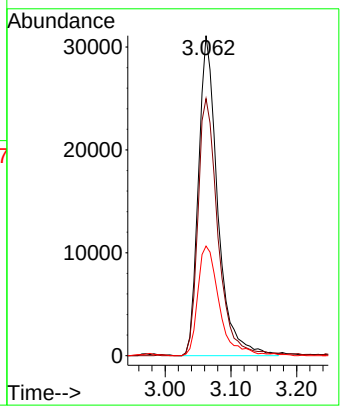




#15
Acrylonitrile
Concen: 71.312 ug/l
RT: 3.062 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 53 Resp: 6329

Ion	Ratio	Lower	Upper
53	100		
52	83.5	65.3	97.9
51	38.4	29.8	44.8



Instrument :
MSVOA_X
ClientSampleId :
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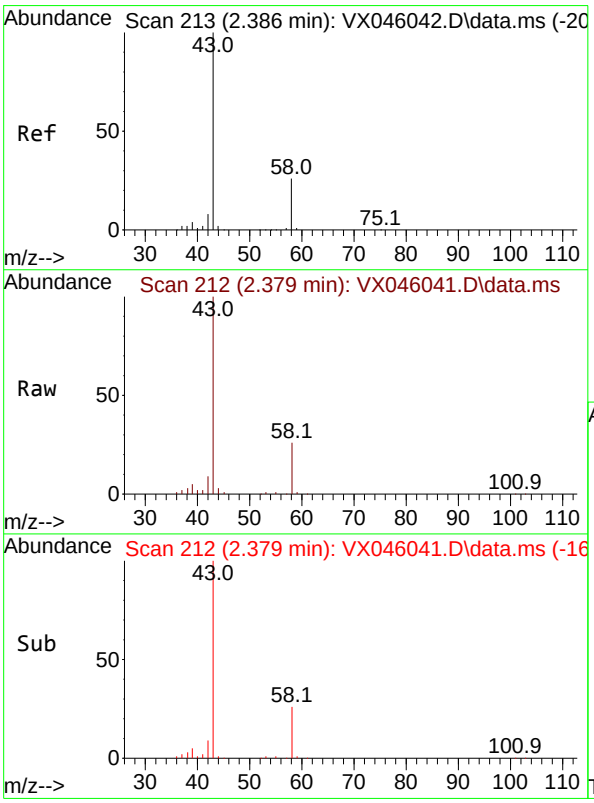
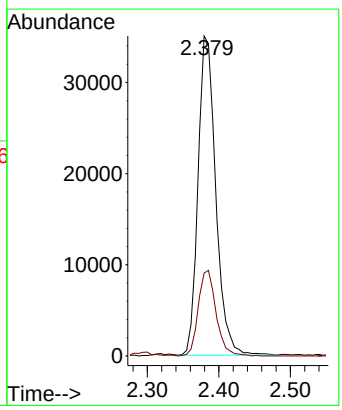
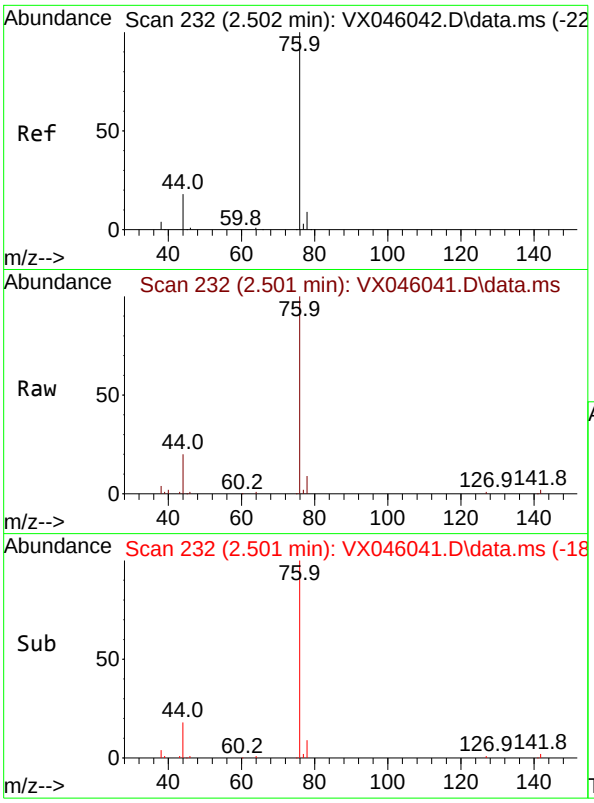


#16
Acetone
Concen: 70.884 ug/l
RT: 2.379 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 43 Resp: 60363

Ion	Ratio	Lower	Upper
43	100		
58	26.0	21.2	31.8

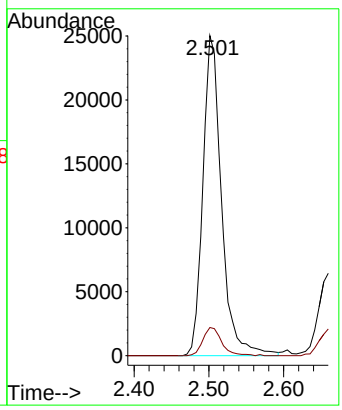




#17
Carbon Disulfide
Concen: 13.251 ug/l
RT: 2.501 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 76 Resp: 4334

Ion	Ratio	Lower	Upper
76	100		
78	8.8	7.0	10.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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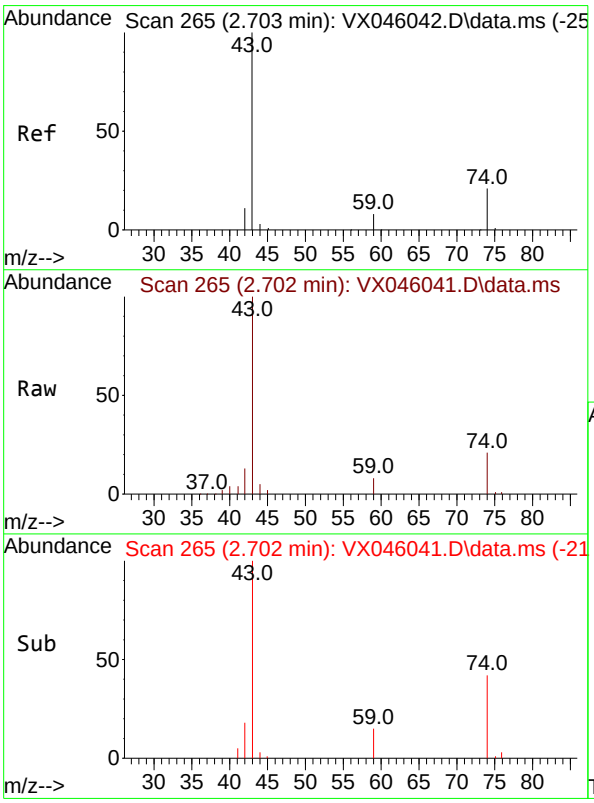
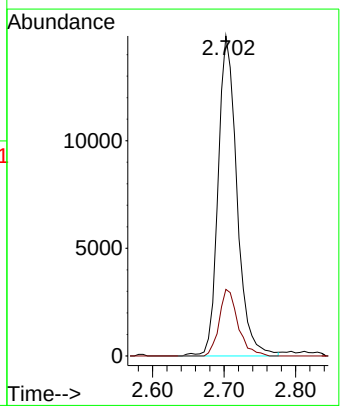
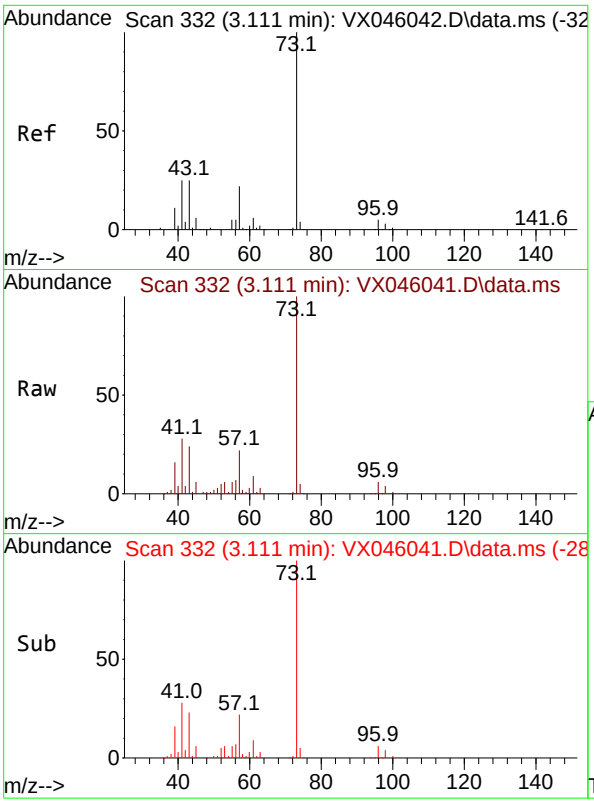


#18
Methyl Acetate
Concen: 13.397 ug/l
RT: 2.702 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 43 Resp: 27234

Ion	Ratio	Lower	Upper
43	100		
74	20.7	16.7	25.1

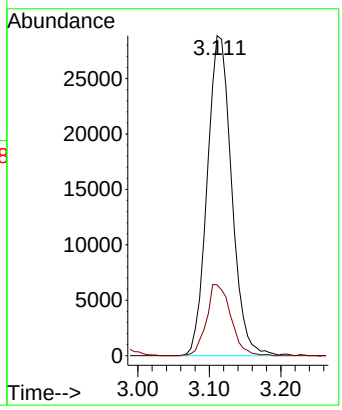




#19
Methyl tert-butyl Ether
Concen: 13.890 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 73 Resp: 6840

Ion	Ratio	Lower	Upper
73	100		
57	22.2	17.7	26.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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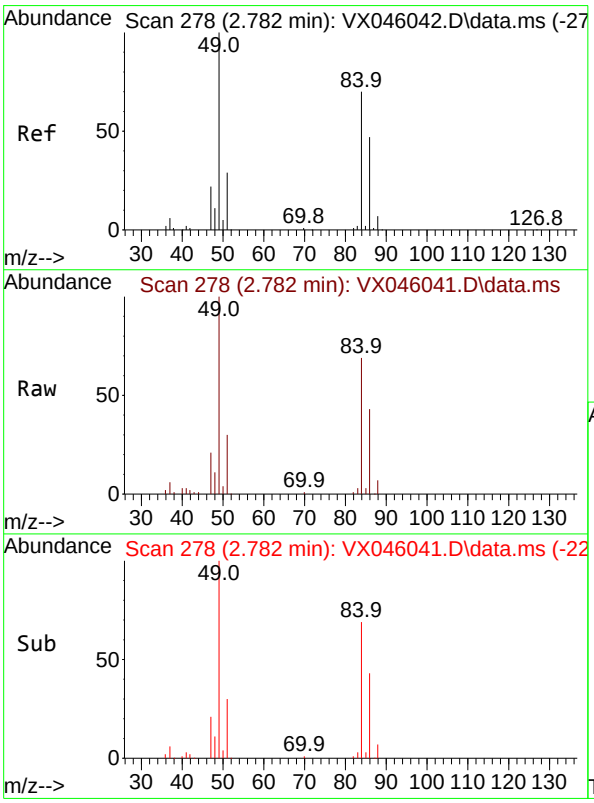
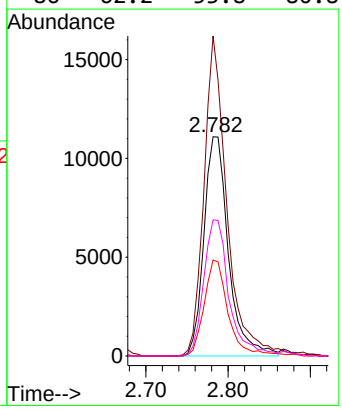
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

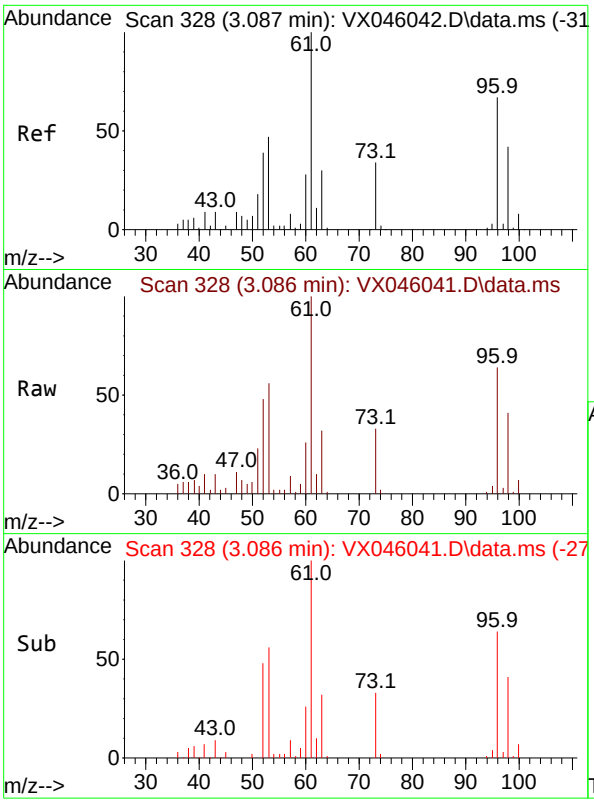


#20
Methylene Chloride
Concen: 13.362 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 84 Resp: 23050

Ion	Ratio	Lower	Upper
84	100		
49	146.0	113.9	170.9
51	43.8	33.5	50.3
86	62.2	53.8	80.8

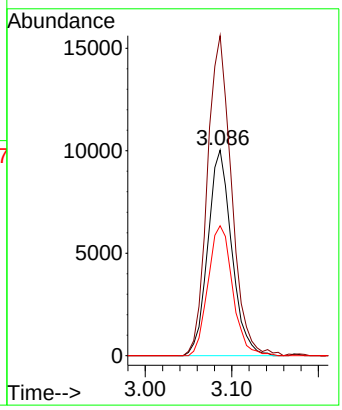




#21
trans-1,2-Dichloroethene
Concen: 13.294 ug/l
RT: 3.086 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 96 Resp: 1916

Ion	Ratio	Lower	Upper
96	100		
61	155.6	119.5	179.3
98	63.2	50.0	75.0



Instrument :
MSVOA_X
ClientSampleId :
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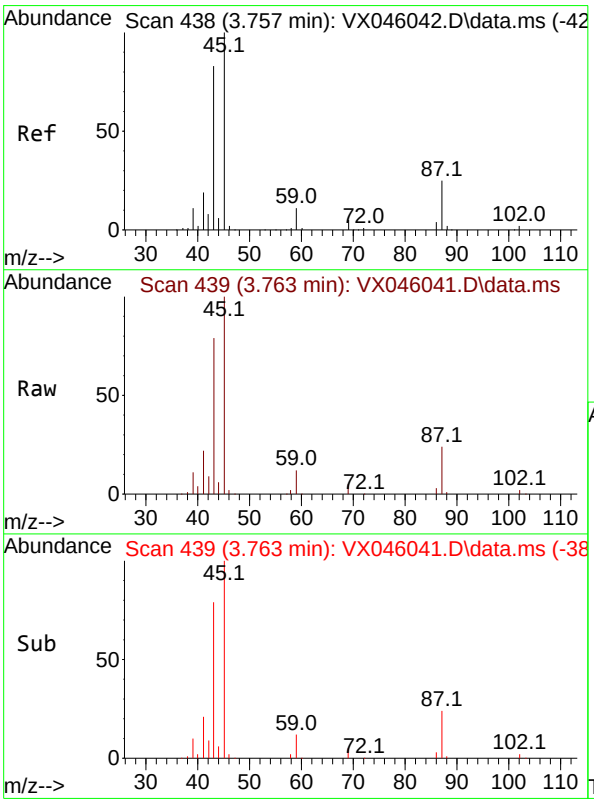
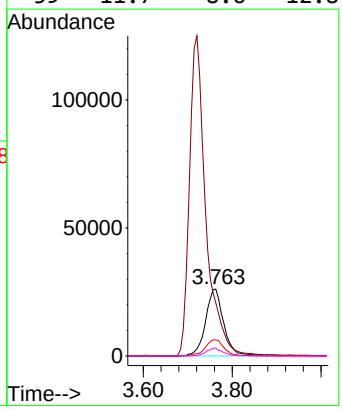
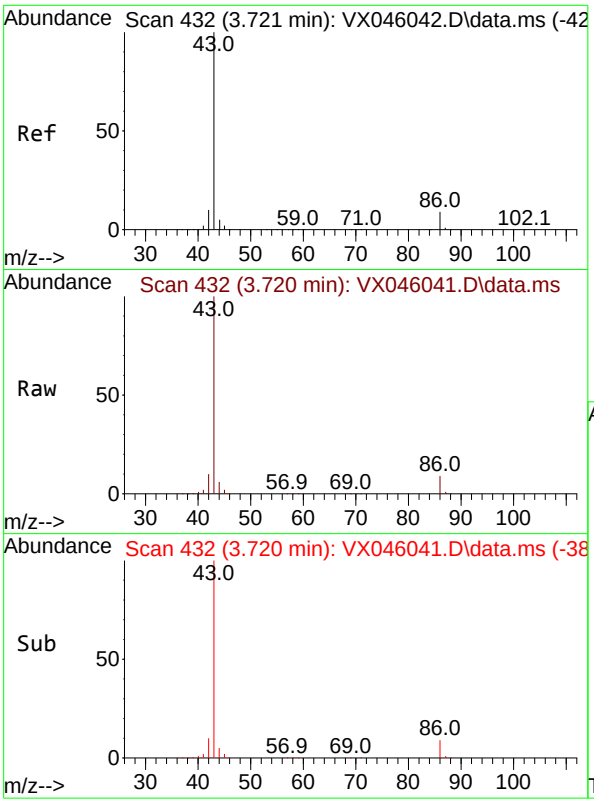


#22
Diisopropyl ether
Concen: 14.896 ug/l
RT: 3.763 min Scan# 439
Delta R.T. 0.006 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 45 Resp: 74257

Ion	Ratio	Lower	Upper
45	100		
43	78.2	66.6	100.0
87	24.0	19.8	29.6
59	11.7	8.6	12.8





#23
Vinyl Acetate
Concen: 73.230 ug/l
RT: 3.720 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 43 Resp: 32259

Ion	Ratio	Lower	Upper
43	100		
86	9.3	7.5	11.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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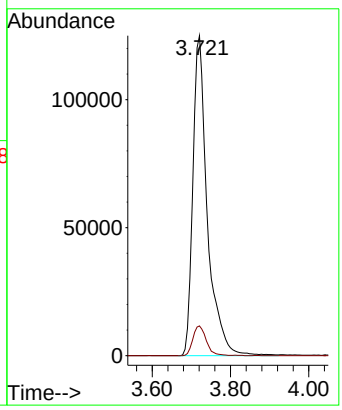
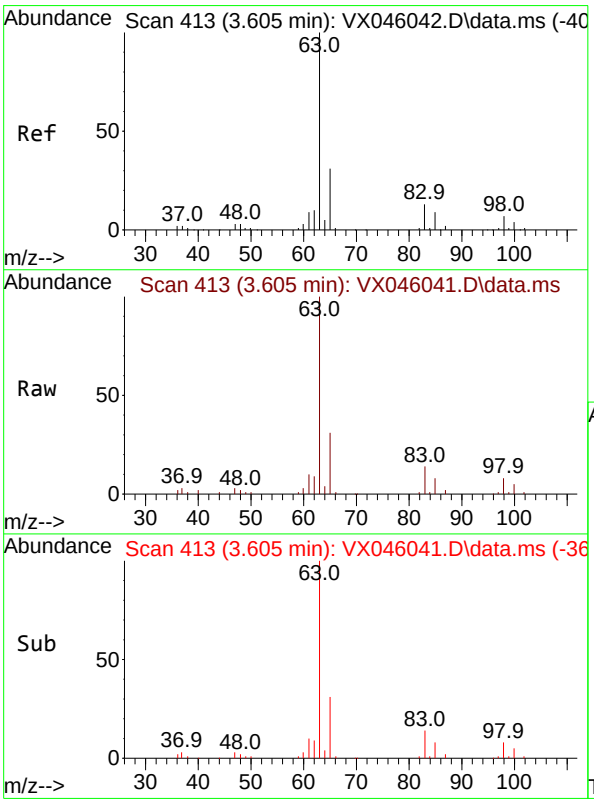
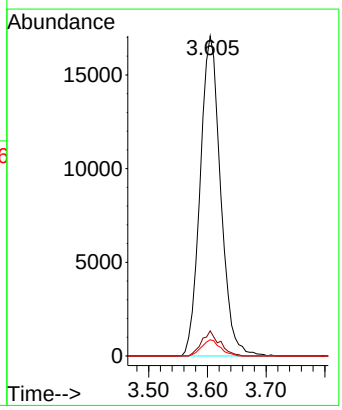


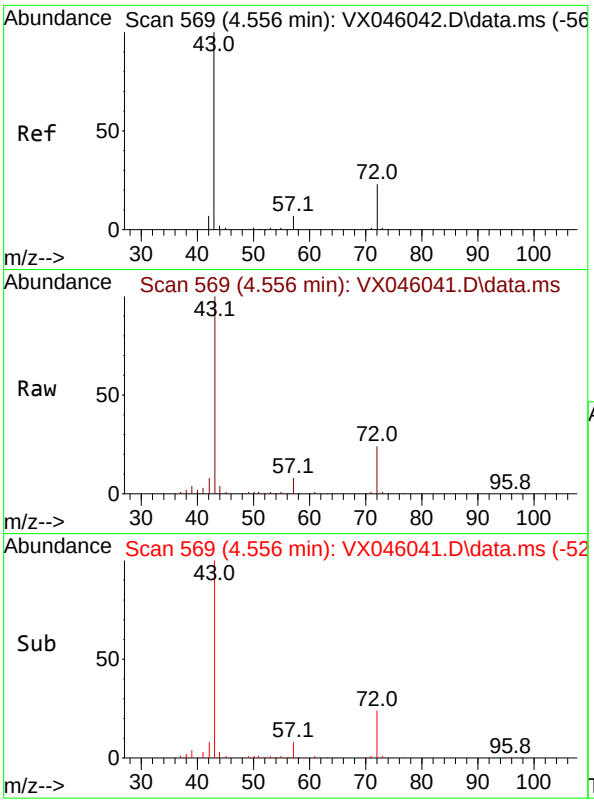


#24
1,1-Dichloroethane
Concen: 14.082 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 63 Resp: 41257

Ion	Ratio	Lower	Upper
63	100		
98	7.9	3.6	10.8
100	5.0	2.1	6.3





#25
2-Butanone
Concen: 73.489 ug/l
RT: 4.556 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 43 Resp: 9033

Ion	Ratio	Lower	Upper
43	100		
72	23.8	18.4	27.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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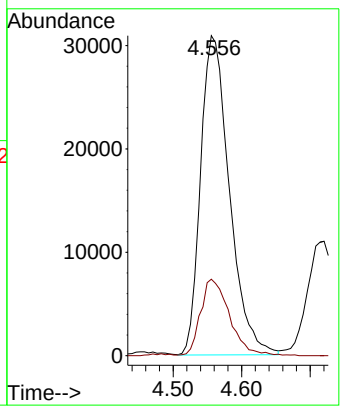
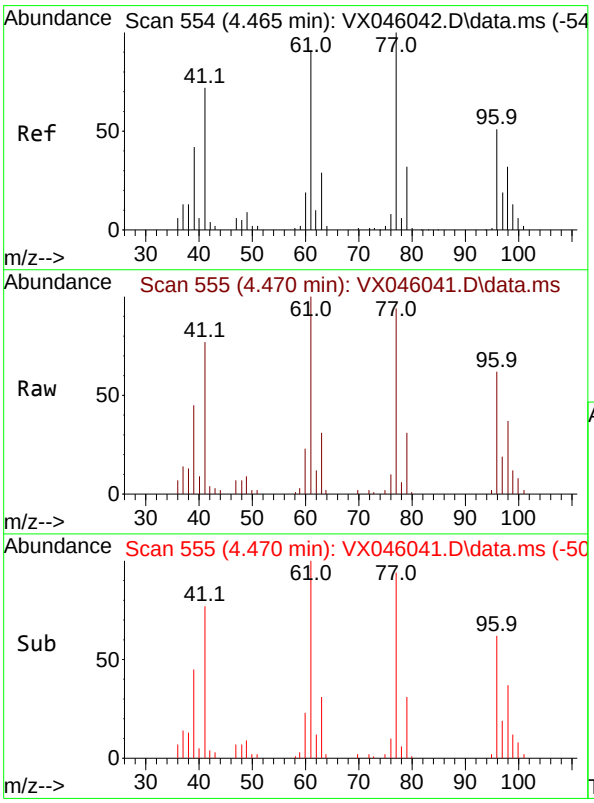
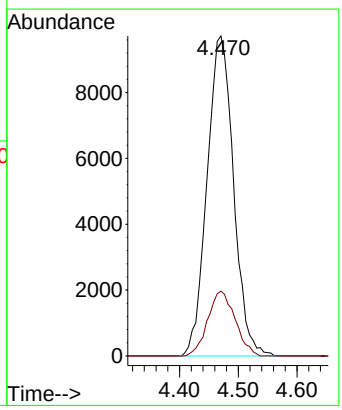


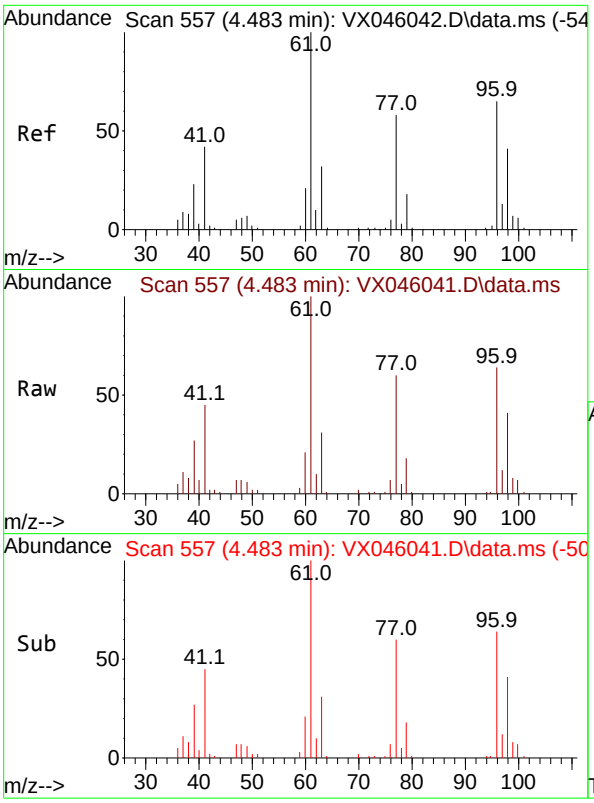


#26
2,2-Dichloropropane
Concen: 13.729 ug/l
RT: 4.470 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 77 Resp: 30472

Ion	Ratio	Lower	Upper
77	100		
97	20.9	10.5	31.5

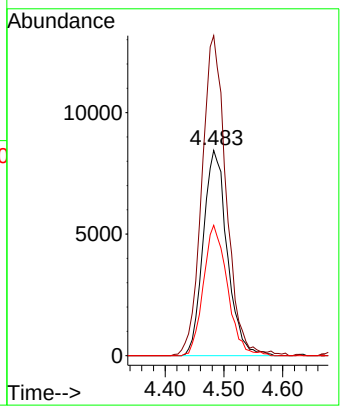




#27
cis-1,2-Dichloroethene
Concen: 13.791 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 96 Resp: 2397

Ion	Ratio	Lower	Upper
96	100		
61	158.3	0.0	322.8
98	63.5	0.0	129.0



Instrument :
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ClientSampleId :
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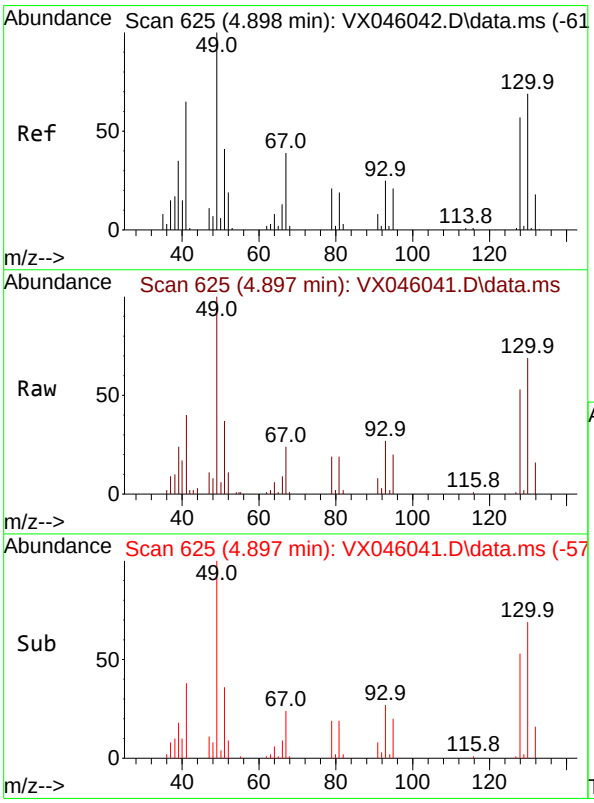
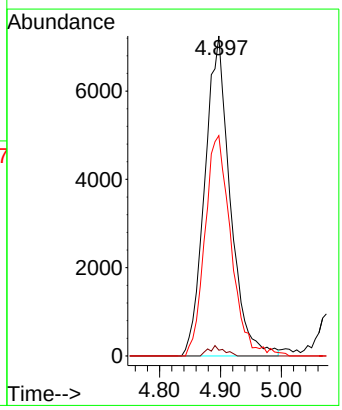
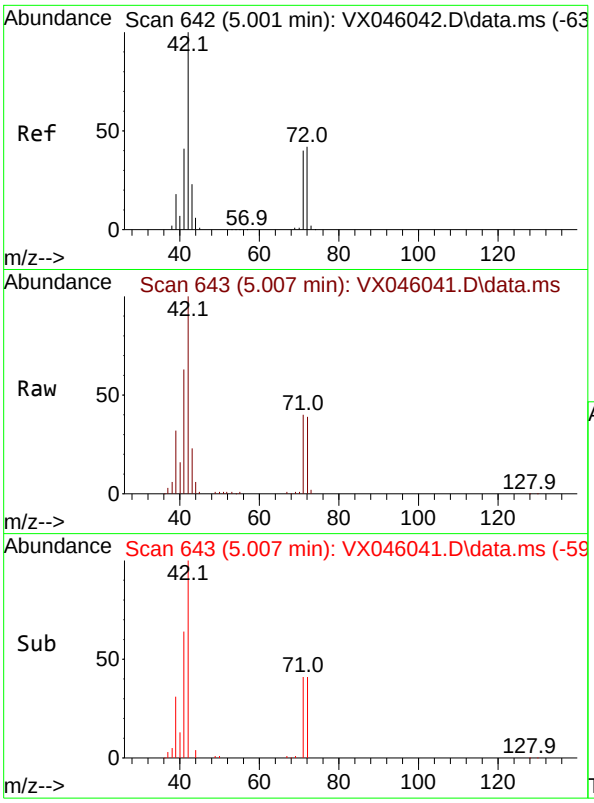


#28
Bromochloromethane
Concen: 13.497 ug/l
RT: 4.897 min Scan# 625
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 49 Resp: 21028

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	4.0
130	70.9	56.2	84.2





#29
Tetrahydrofuran
Concen: 71.175 ug/l
RT: 5.007 min Scan# 64
Delta R.T. 0.006 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 42 Resp: 5681

Ion	Ratio	Lower	Upper
42	100		
72	42.3	33.7	50.5
71	39.2	31.4	47.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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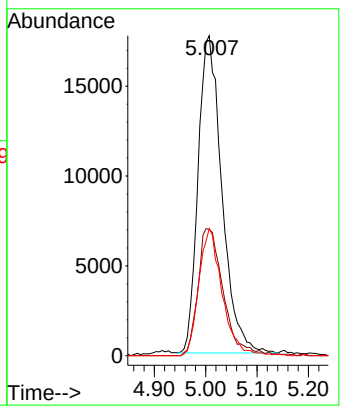
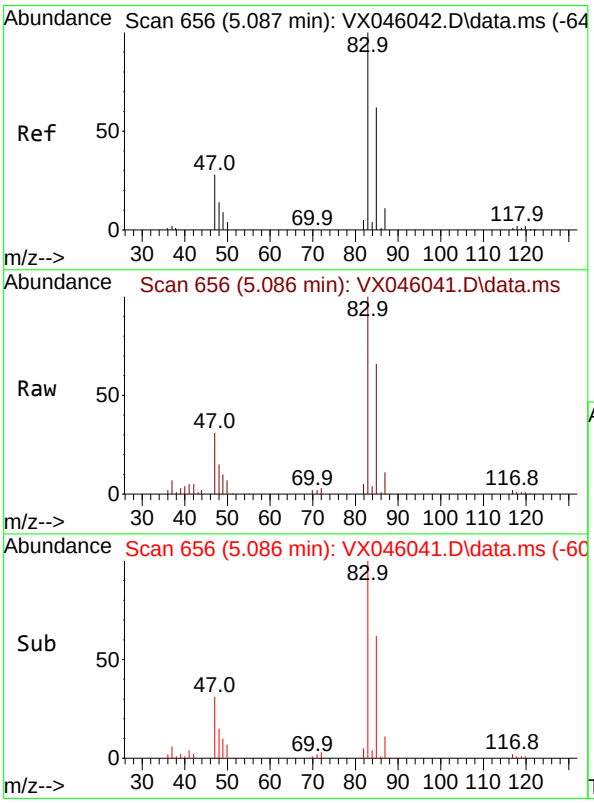
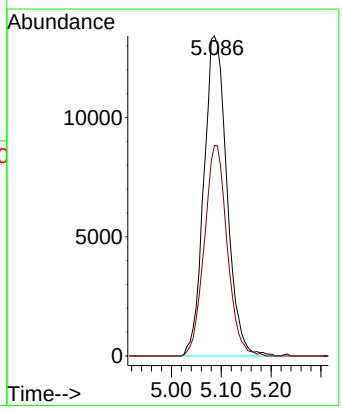


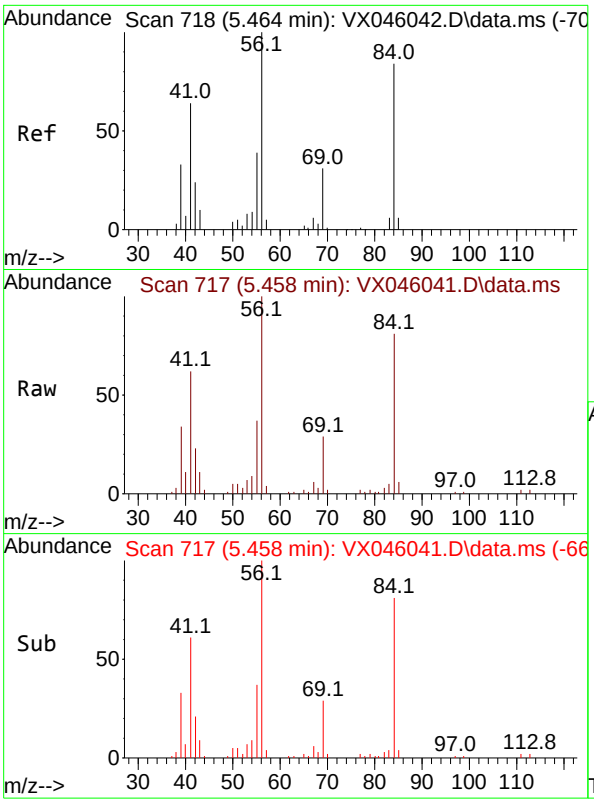


#30
Chloroform
Concen: 14.144 ug/l
RT: 5.086 min Scan# 656
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 83 Resp: 43065

Ion	Ratio	Lower	Upper
83	100		
85	65.7	49.3	73.9

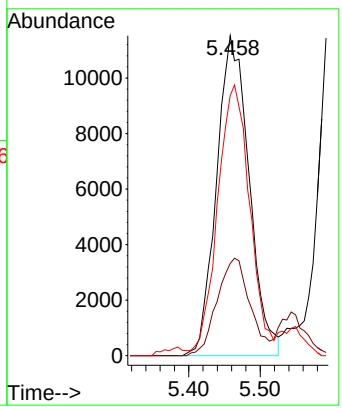




#31
Cyclohexane
Concen: 14.769 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 56 Resp: 3647

Ion	Ratio	Lower	Upper
56	100		
69	28.8	24.4	36.6
84	78.5	66.9	100.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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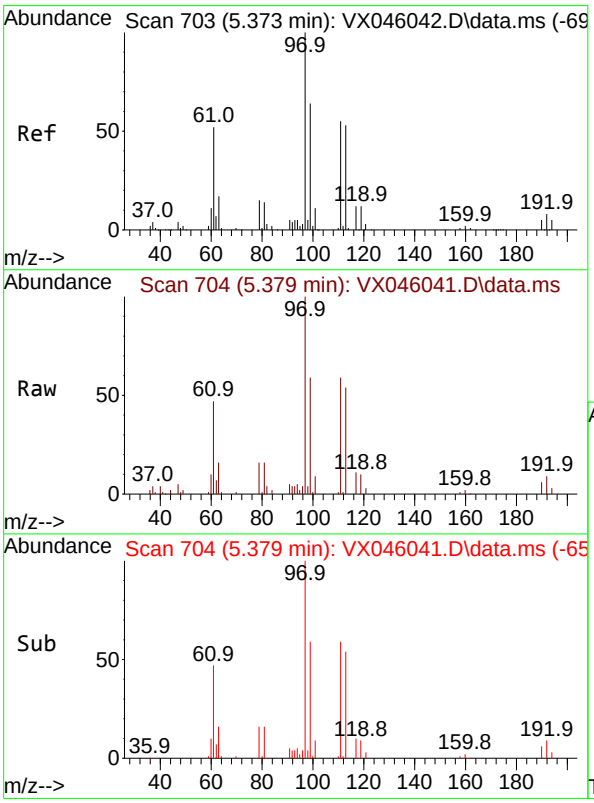
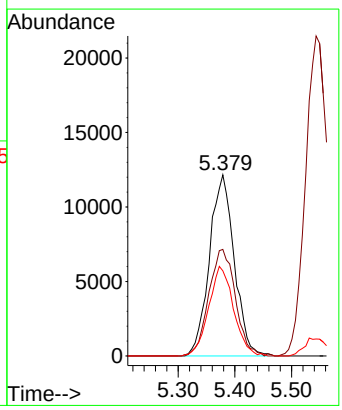
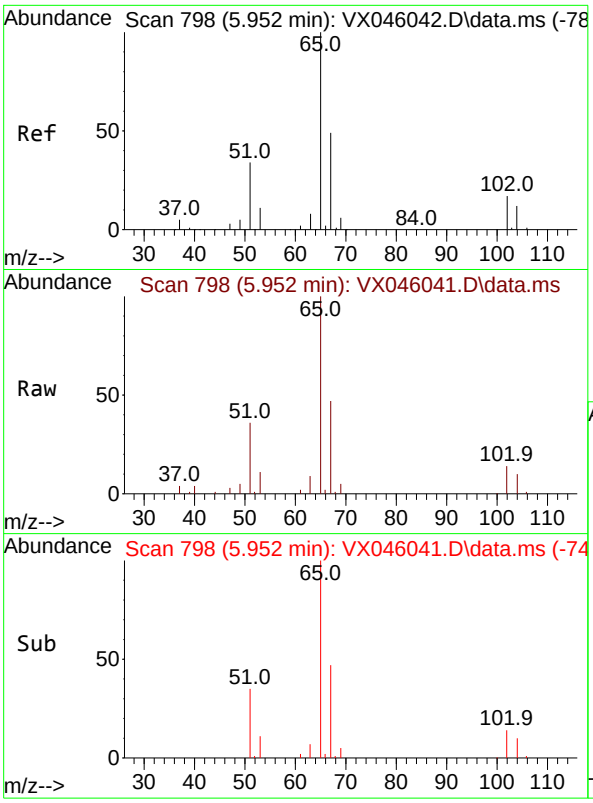


#32
1,1,1-Trichloroethane
Concen: 14.092 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.006 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 97 Resp: 37003

Ion	Ratio	Lower	Upper
97	100		
99	62.8	51.8	77.6
61	49.5	40.1	60.1

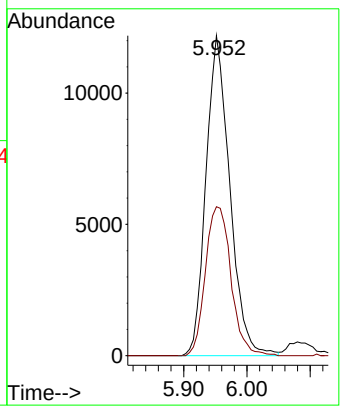




#33
1,2-Dichloroethane-d4
Concen: 12.820 ug/l
RT: 5.952 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 65 Resp: 3190

Ion	Ratio	Lower	Upper
65	100		
67	49.9	0.0	99.0



Instrument :
MSVOA_X
ClientSampleId :
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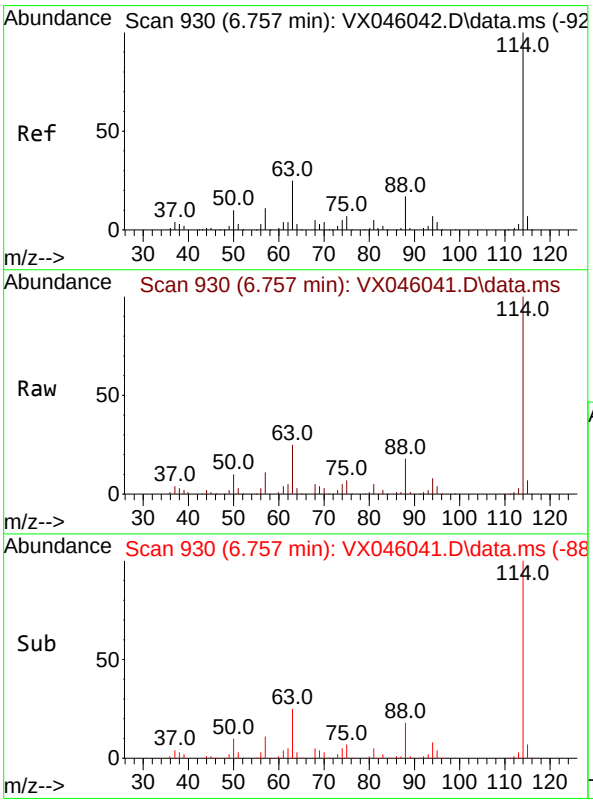
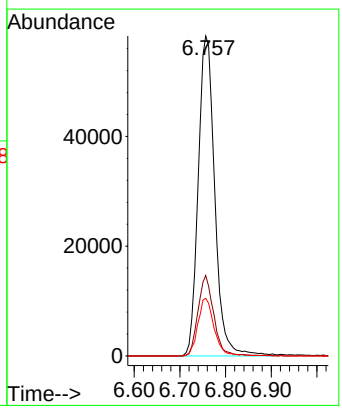
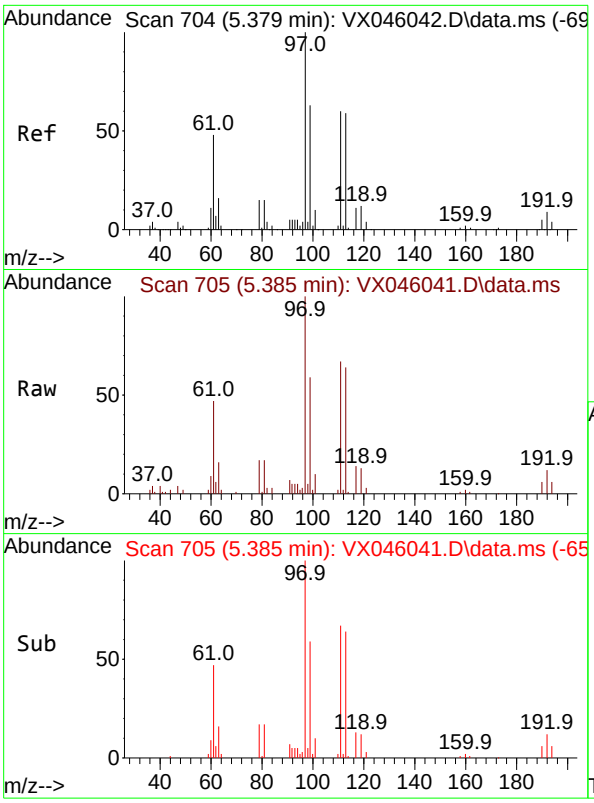


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion:114 Resp: 147096

Ion	Ratio	Lower	Upper
114	100		
63	25.2	0.0	49.2
88	18.0	0.0	33.6

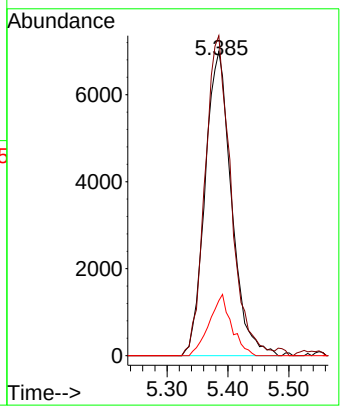




#35
Dibromofluoromethane
Concen: 12.804 ug/l
RT: 5.385 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion:113 Resp: 2111

Ion	Ratio	Lower	Upper
113	100		
111	103.0	83.1	124.7
192	17.0	13.3	19.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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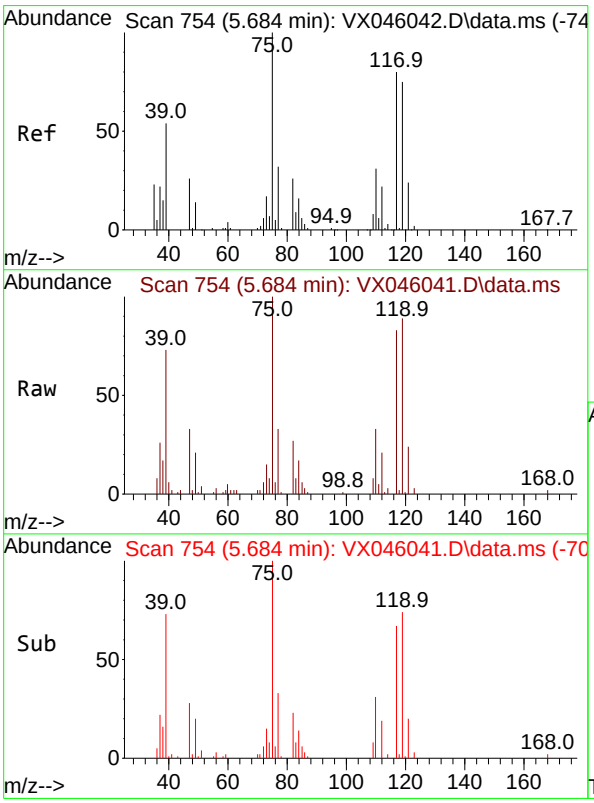
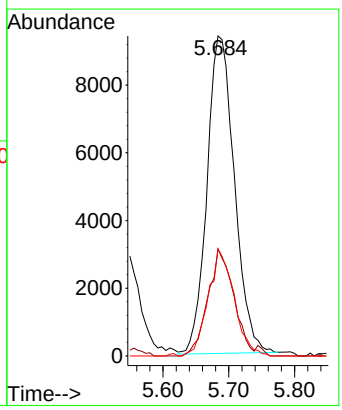
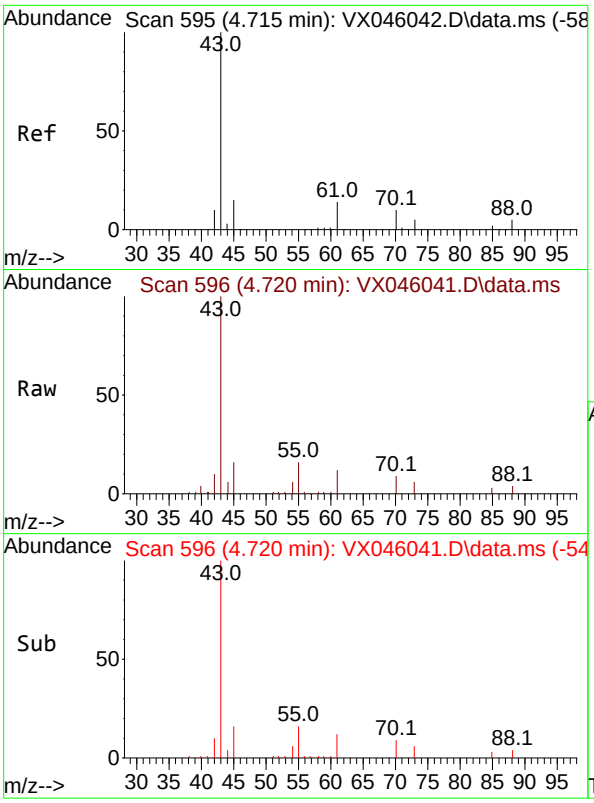


#36
1,1-Dichloropropene
Concen: 14.231 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 75 Resp: 27242

Ion	Ratio	Lower	Upper
75	100		
110	31.6	16.3	48.9
77	31.9	24.3	36.5

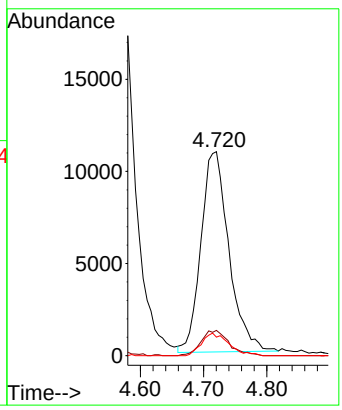




#37
Ethyl Acetate
Concen: 13.931 ug/l
RT: 4.720 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 43 Resp: 3345

Ion	Ratio	Lower	Upper
43	100		
61	12.6	10.3	15.5
70	10.9	7.9	11.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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Reviewed By :John Carlone 05/06/2025
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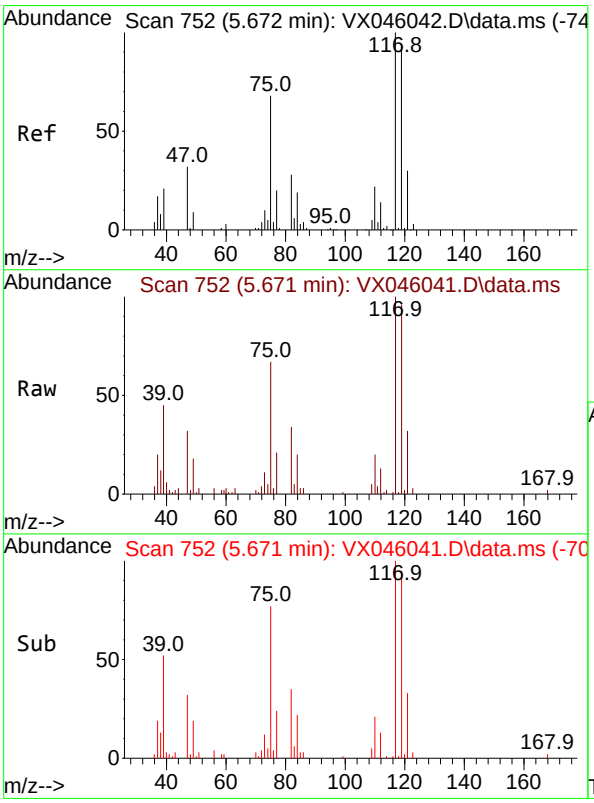
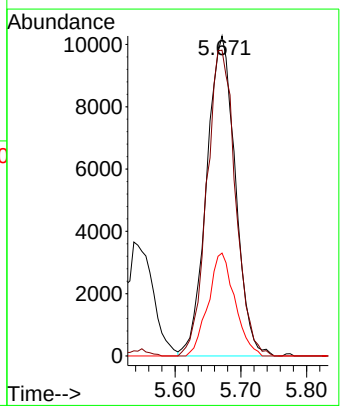
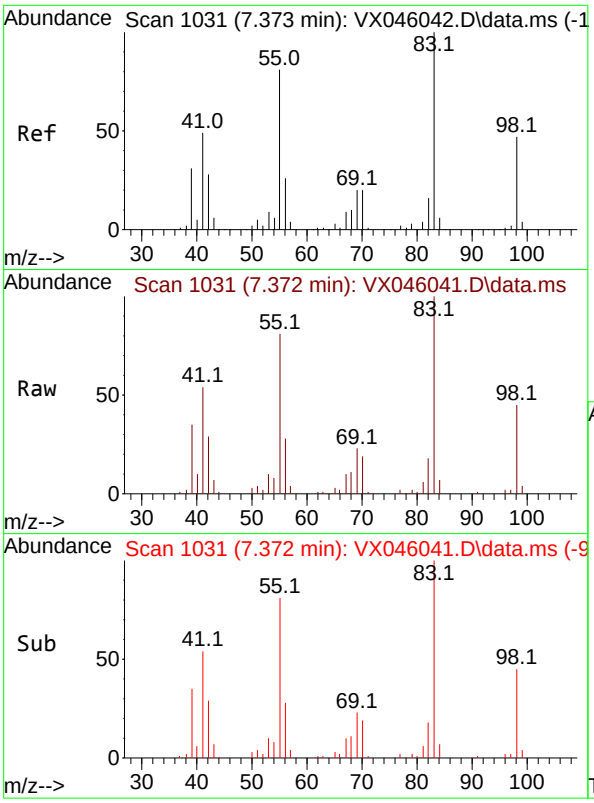


#38
Carbon Tetrachloride
Concen: 14.137 ug/l
RT: 5.671 min Scan# 752
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion:117 Resp: 31091

Ion	Ratio	Lower	Upper
117	100		
119	95.6	75.2	112.8
121	32.1	24.2	36.4

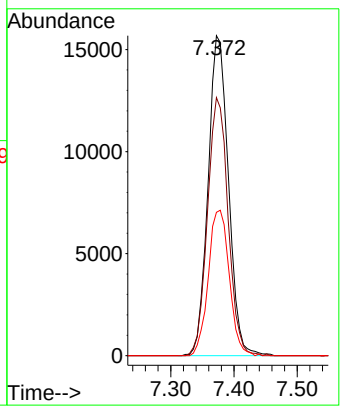




#39
Methylcyclohexane
Concen: 14.623 ug/l
RT: 7.372 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 83 Resp: 3507

Ion	Ratio	Lower	Upper
83	100		
55	80.7	64.7	97.1
98	44.8	37.4	56.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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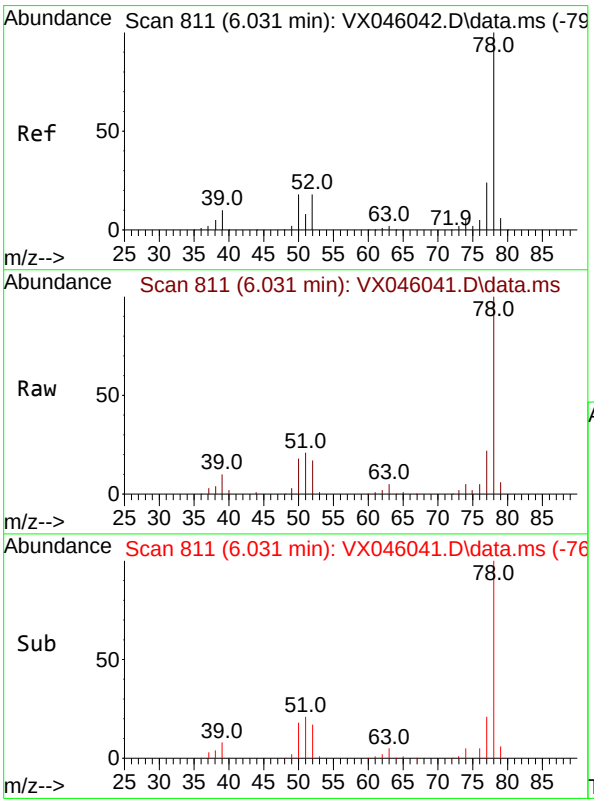
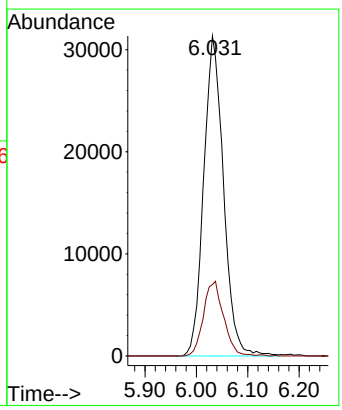
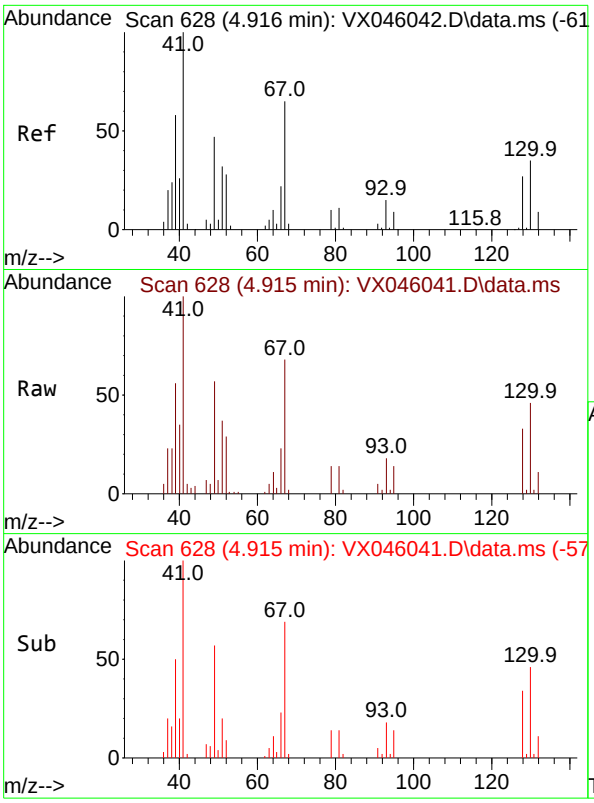


#40
Benzene
Concen: 14.140 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 78 Resp: 83898

Ion	Ratio	Lower	Upper
78	100		
77	22.3	19.0	28.4

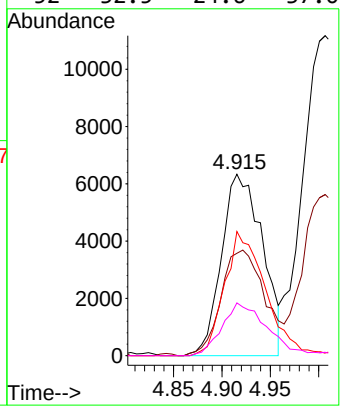




#41
Methacrylonitrile
Concen: 14.038 ug/l
RT: 4.915 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 41 Resp: 1873

Ion	Ratio	Lower	Upper
41	100		
39	62.6	47.2	70.8
67	68.3	50.7	76.1
52	32.5	24.6	37.0



Instrument :
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ClientSampleId :
VSTDICC020

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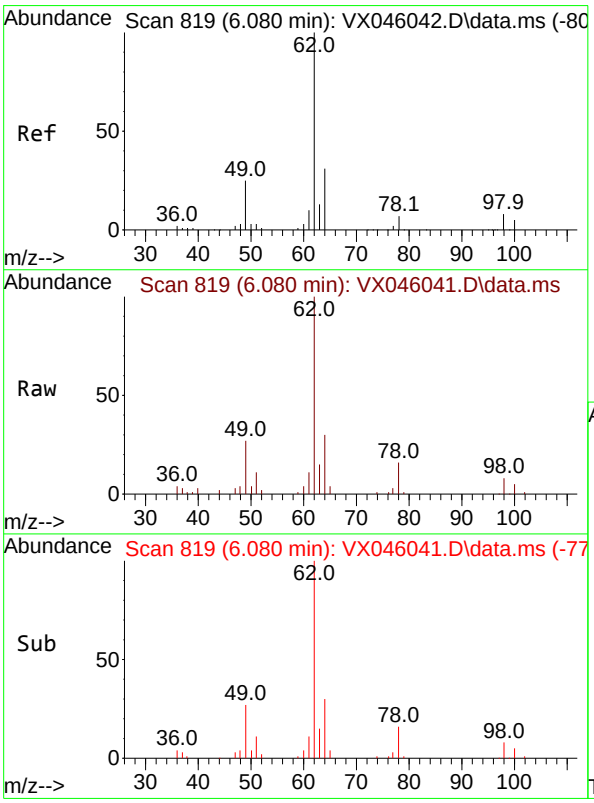
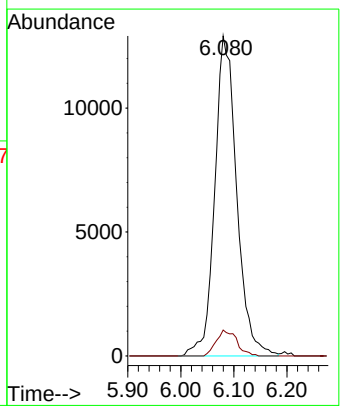
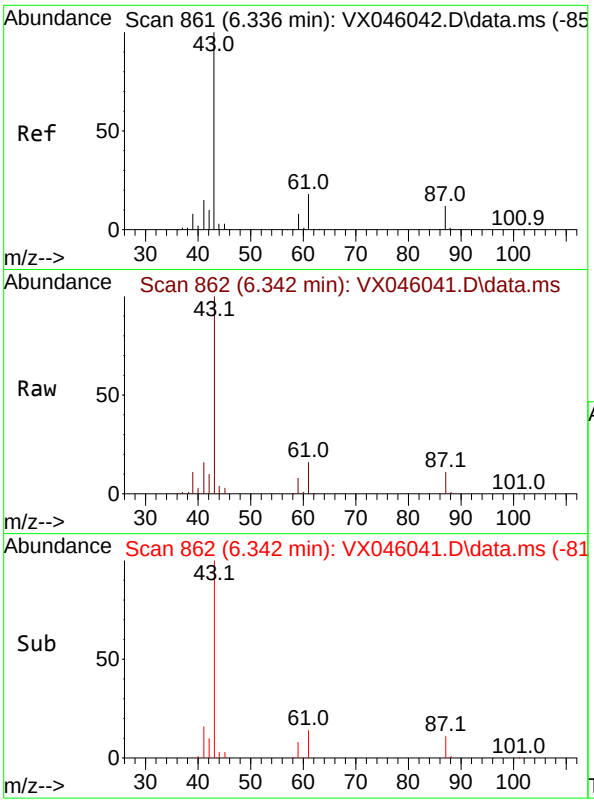


#42
1,2-Dichloroethane
Concen: 15.165 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 62 Resp: 37203

Ion	Ratio	Lower	Upper
62	100		
98	7.6	0.0	15.2





#43
Isopropyl Acetate
Concen: 14.512 ug/l
RT: 6.342 min Scan# 8
Delta R.T. 0.006 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 43 Resp: 5327

Ion	Ratio	Lower	Upper
43	100		
61	17.3	14.3	21.5
87	11.6	9.5	14.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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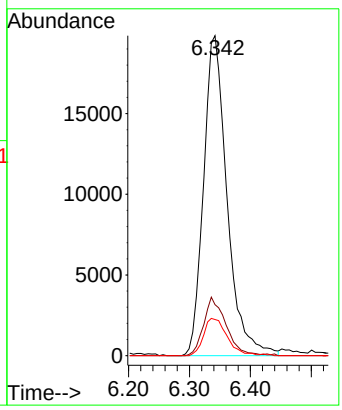
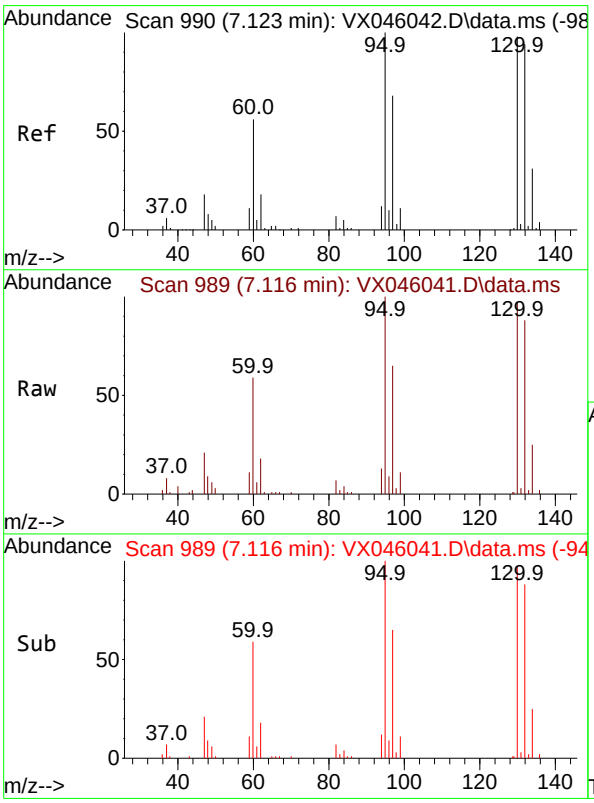
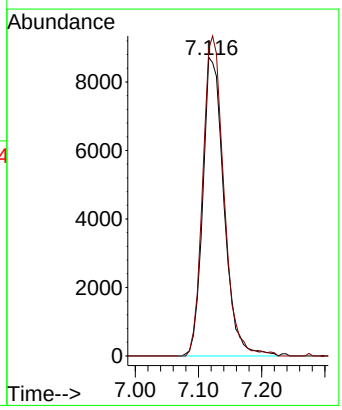


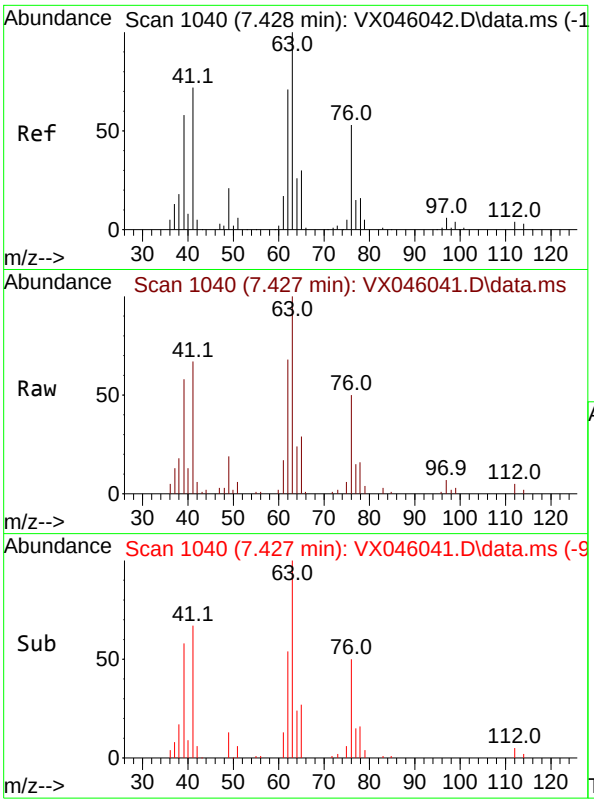


#44
Trichloroethene
Concen: 14.429 ug/l
RT: 7.116 min Scan# 989
Delta R.T. -0.006 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion:130 Resp: 20239

Ion	Ratio	Lower	Upper
130	100		
95	102.8	0.0	204.2

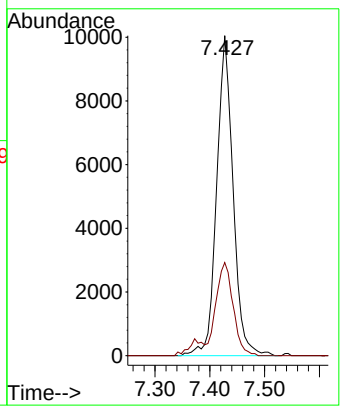




#45
1,2-Dichloropropane
Concen: 14.204 ug/l
RT: 7.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 63 Resp: 2094

Ion	Ratio	Lower	Upper
63	100		
65	29.1	24.1	36.1



Instrument :
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ClientSampleId :
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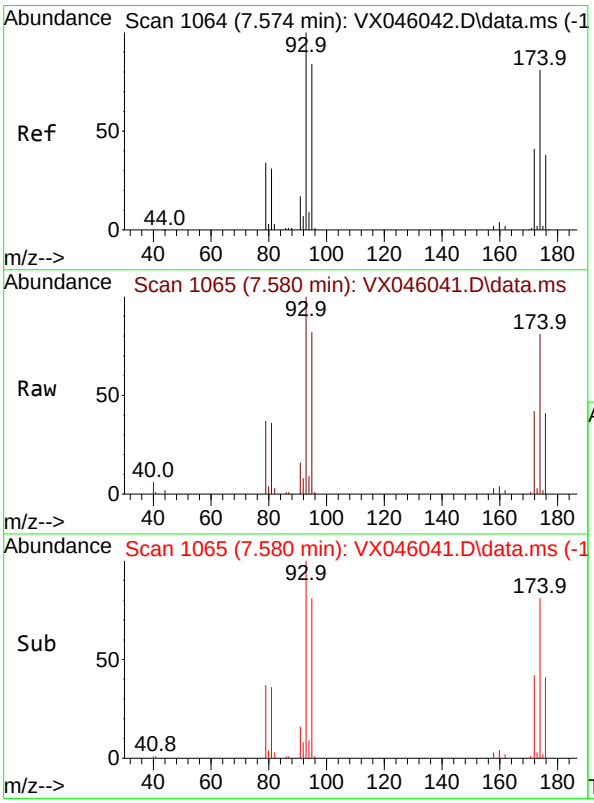
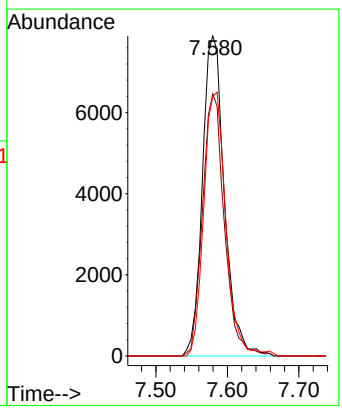
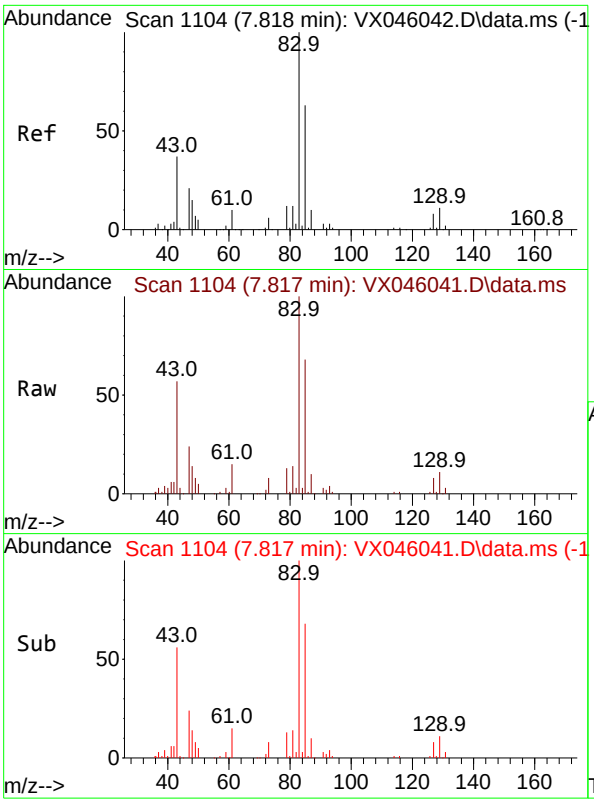


#46
Dibromomethane
Concen: 14.439 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. 0.006 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 93 Resp: 16781

Ion	Ratio	Lower	Upper
93	100		
95	81.5	65.6	98.4
174	83.1	68.2	102.2

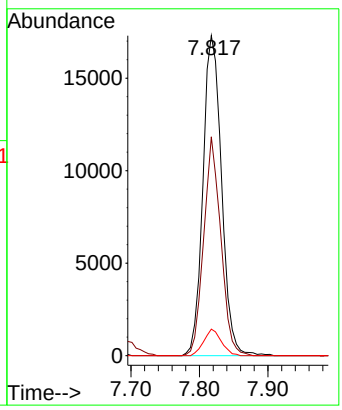




#47
Bromodichloromethane
Concen: 14.545 ug/l
RT: 7.817 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 83 Resp: 3276

Ion	Ratio	Lower	Upper
83	100		
85	68.4	50.5	75.7
127	8.3	6.5	9.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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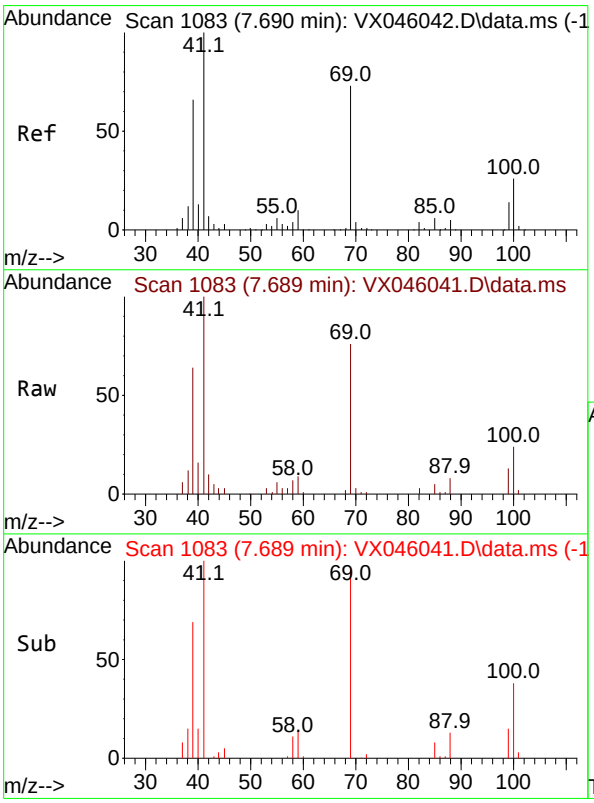
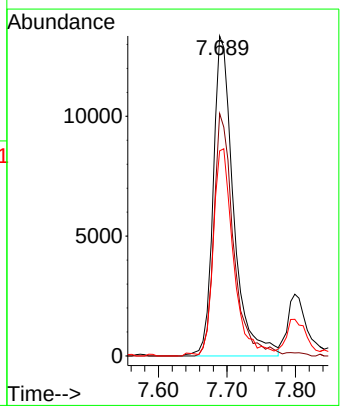
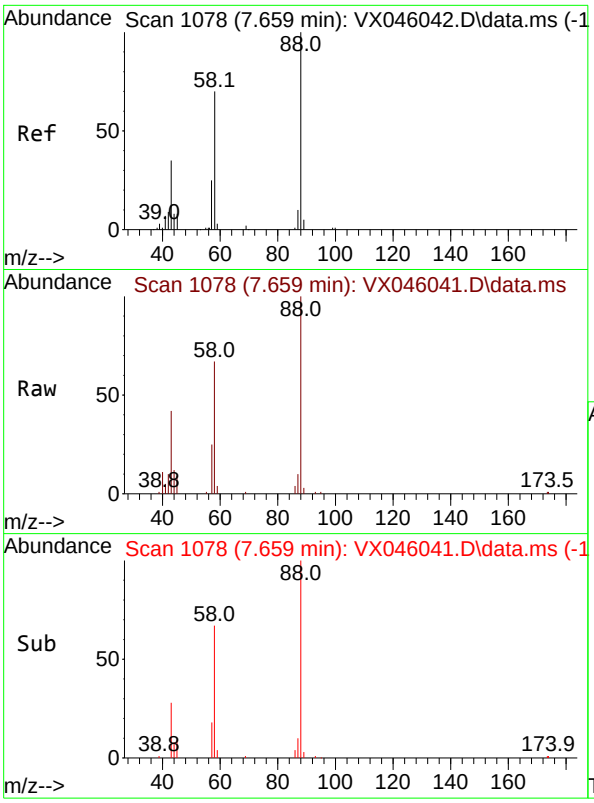


#48
Methyl methacrylate
Concen: 14.521 ug/l
RT: 7.689 min Scan# 1083
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 41 Resp: 27374

Ion	Ratio	Lower	Upper
41	100		
69	73.5	58.5	87.7
39	64.9	51.7	77.5





#49
1,4-Dioxane
Concen: 282.442 ug/l
RT: 7.659 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 88 Resp: 1058

Ion	Ratio	Lower	Upper
88	100		
43	45.5	33.4	50.2
58	73.6	58.6	88.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
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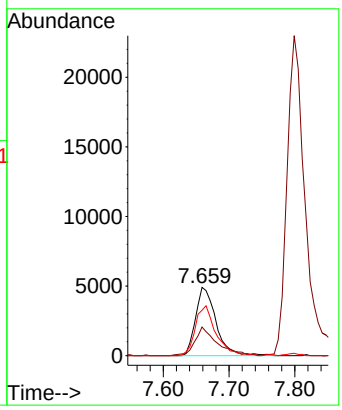
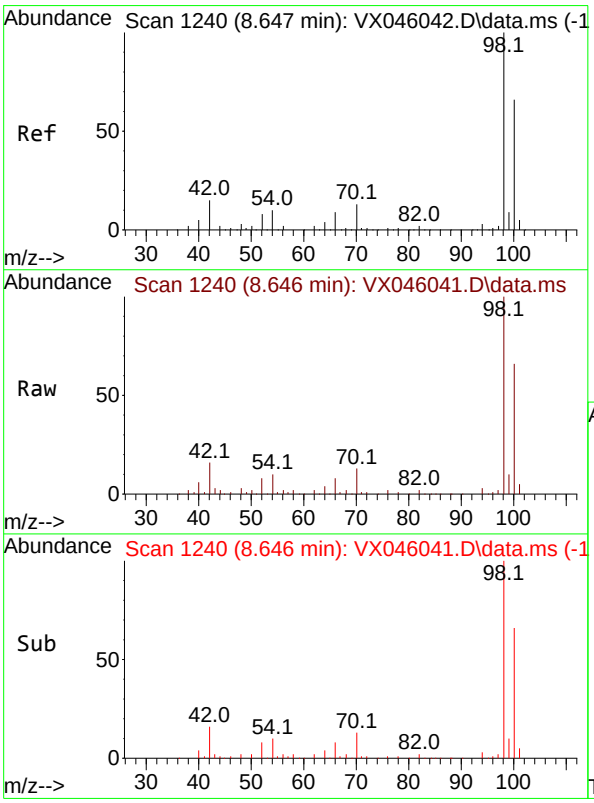
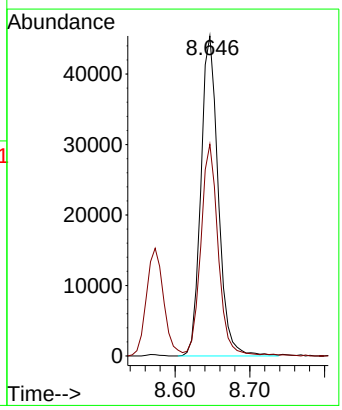


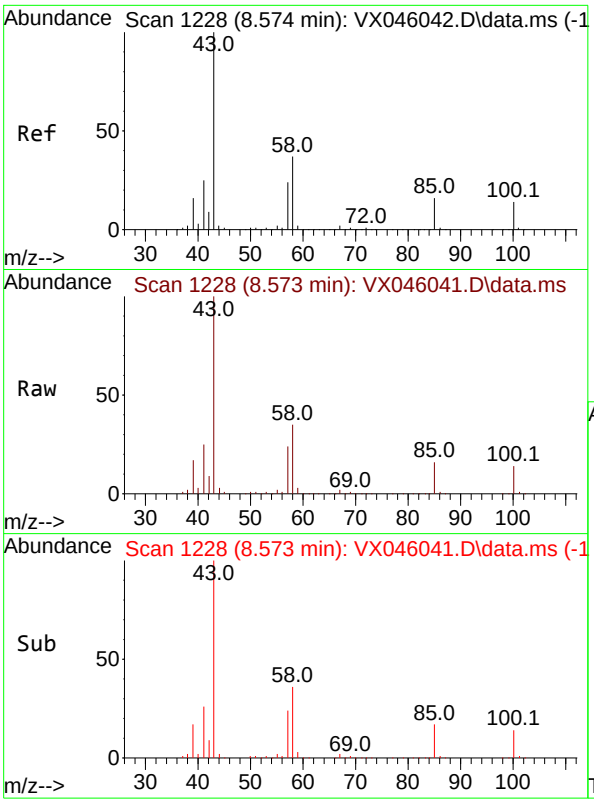


#50
Toluene-d8
Concen: 13.200 ug/l
RT: 8.646 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 98 Resp: 73333

Ion	Ratio	Lower	Upper
98	100		
100	64.8	53.5	80.3





#51
4-Methyl-2-Pentanone
Concen: 75.775 ug/l
RT: 8.573 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 43 Resp: 18245

Ion	Ratio	Lower	Upper
43	100		
58	34.8	28.9	43.3

Instrument :
MSVOA_X
ClientSampleId :
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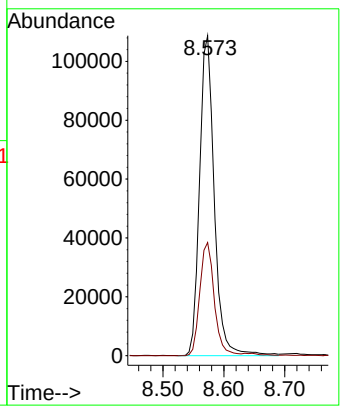
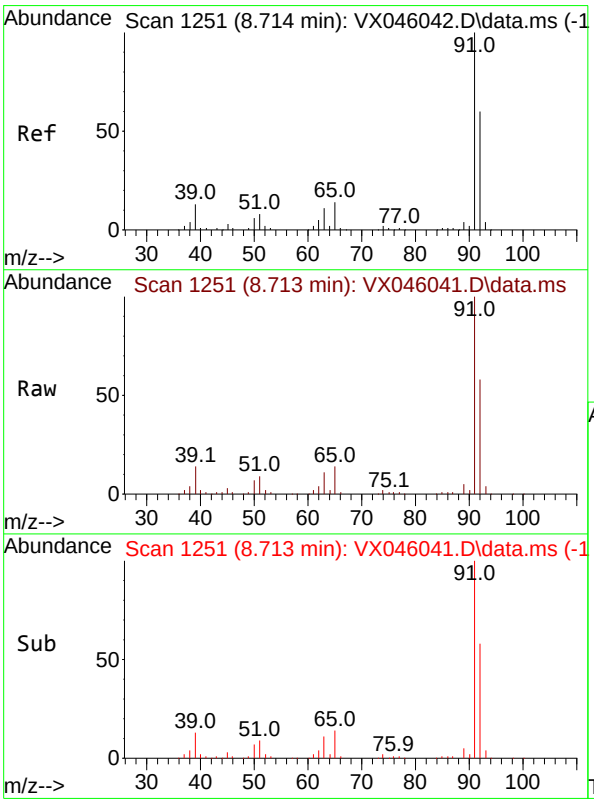
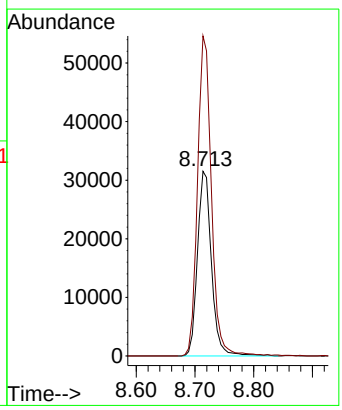


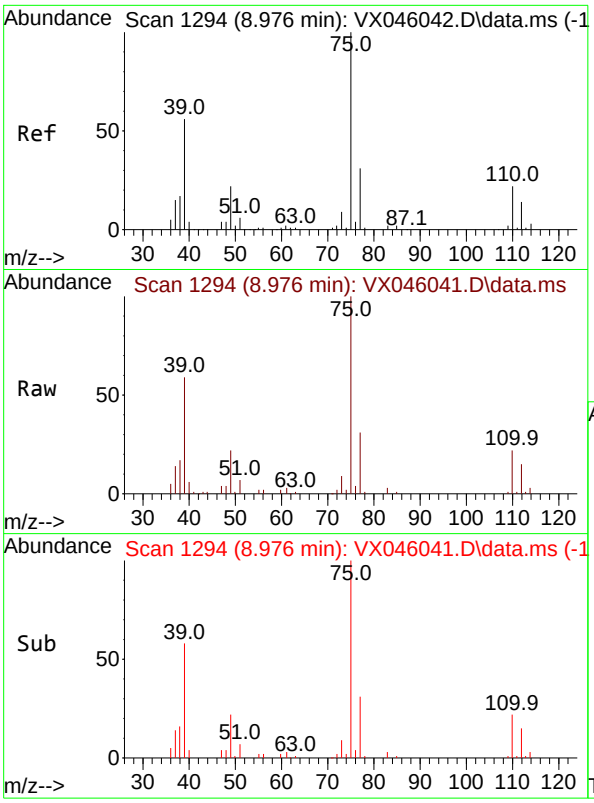


#52
Toluene
Concen: 14.788 ug/l
RT: 8.713 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 92 Resp: 52030

Ion	Ratio	Lower	Upper
92	100		
91	172.2	136.6	205.0

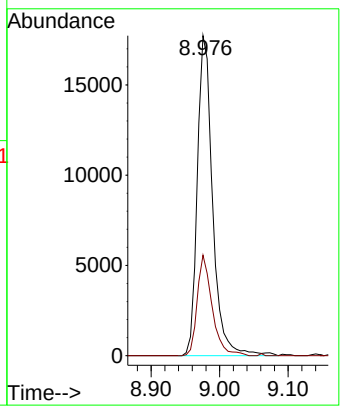




#53
t-1,3-Dichloropropene
Concen: 14.566 ug/l
RT: 8.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 75 Resp: 2754

Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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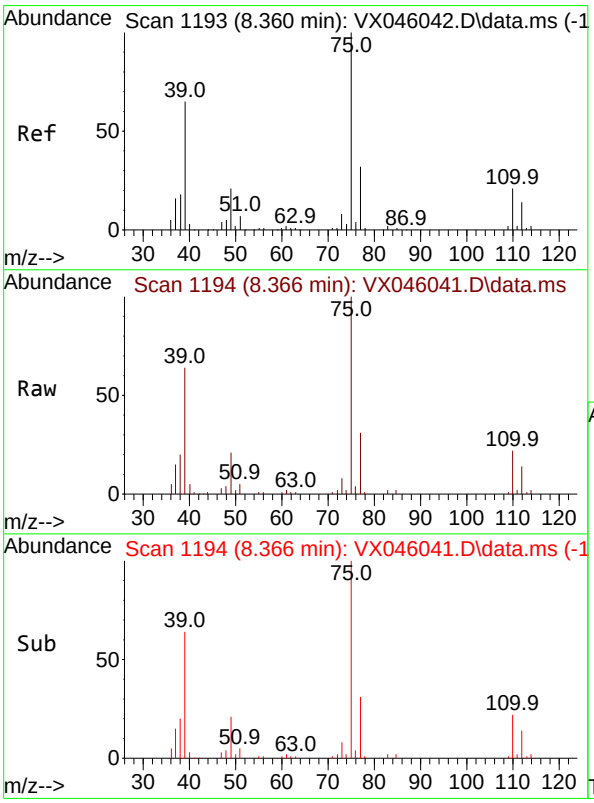
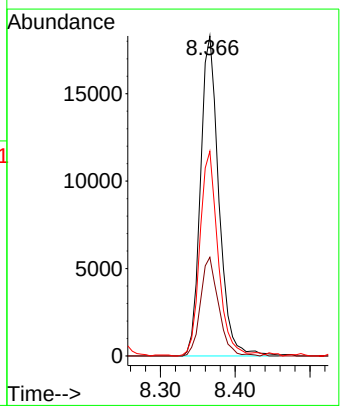
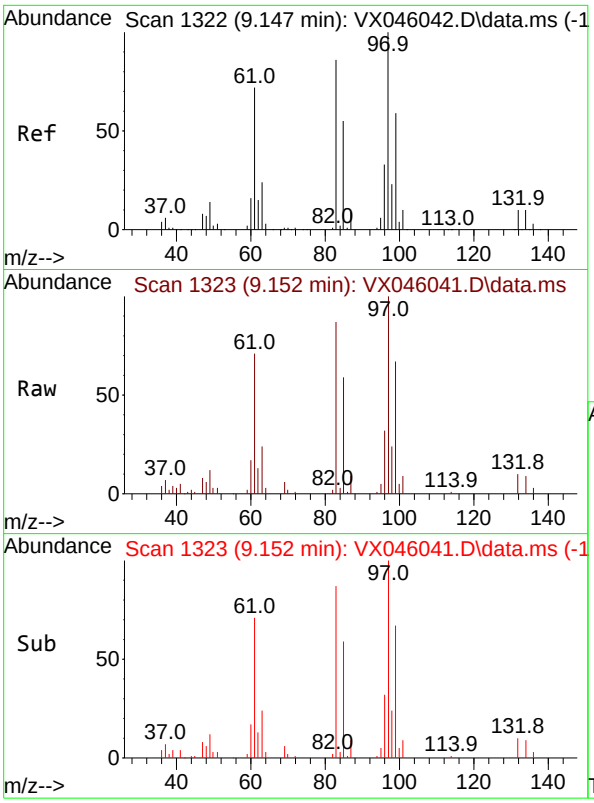


#54
cis-1,3-Dichloropropene
Concen: 14.154 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.006 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 75 Resp: 31226

Ion	Ratio	Lower	Upper
75	100		
77	30.8	25.4	38.0
39	64.0	52.2	78.4

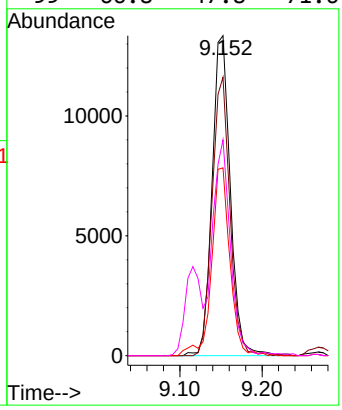




#55
1,1,2-Trichloroethane
Concen: 14.442 ug/l
RT: 9.152 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 97 Resp: 2053

Ion	Ratio	Lower	Upper
97	100		
83	87.0	69.0	103.6
85	58.7	44.3	66.5
99	66.8	47.8	71.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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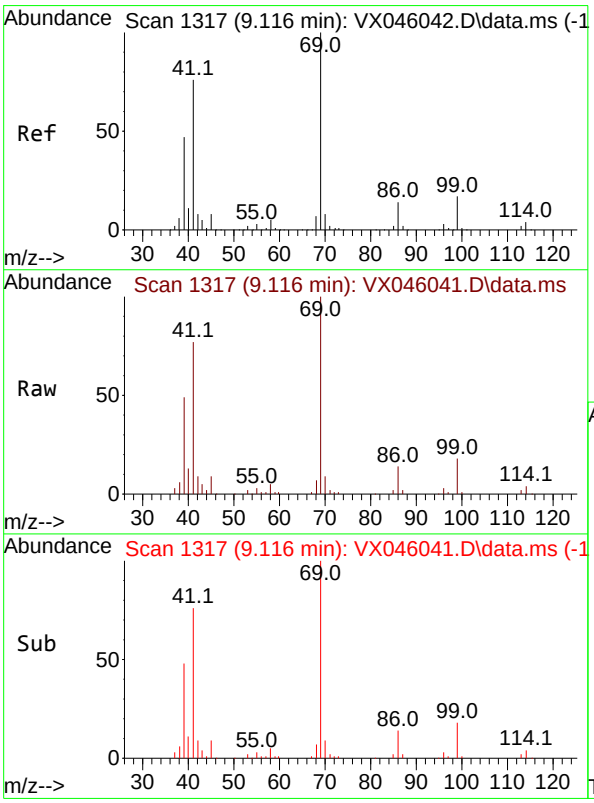
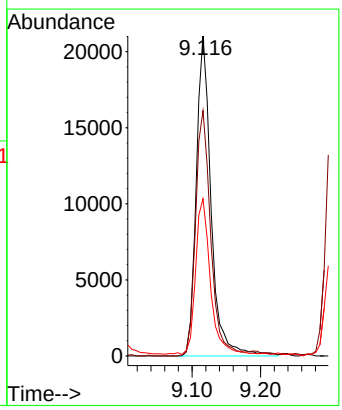
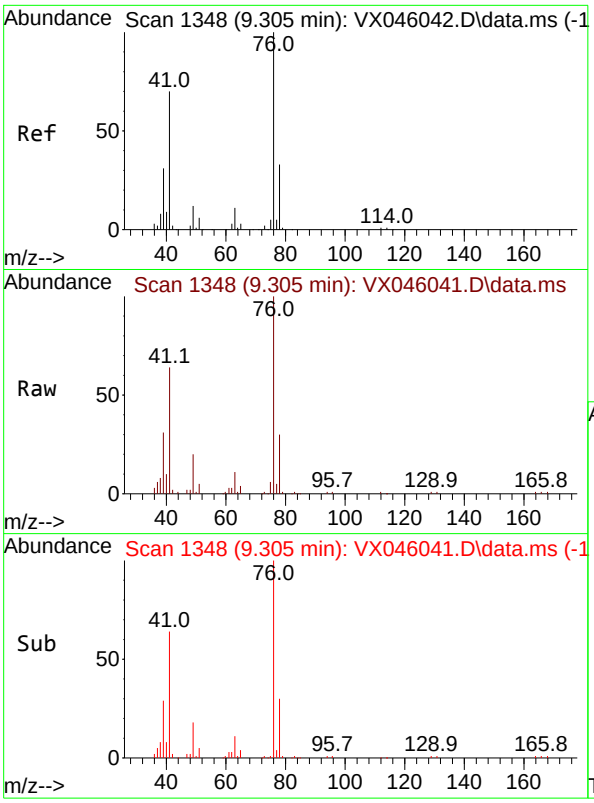


#56
Ethyl methacrylate
Concen: 14.425 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 69 Resp: 31787

Ion	Ratio	Lower	Upper
69	100		
41	78.2	60.8	91.2
39	49.3	39.0	58.6

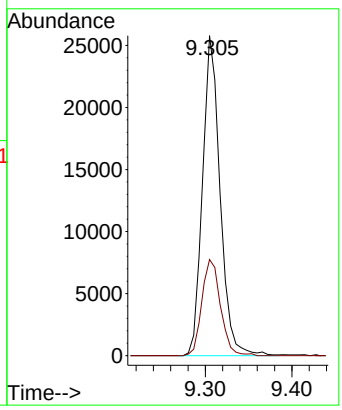




#57
1,3-Dichloropropane
Concen: 14.417 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 76 Resp: 3634

Ion	Ratio	Lower	Upper
76	100		
78	31.8	26.3	39.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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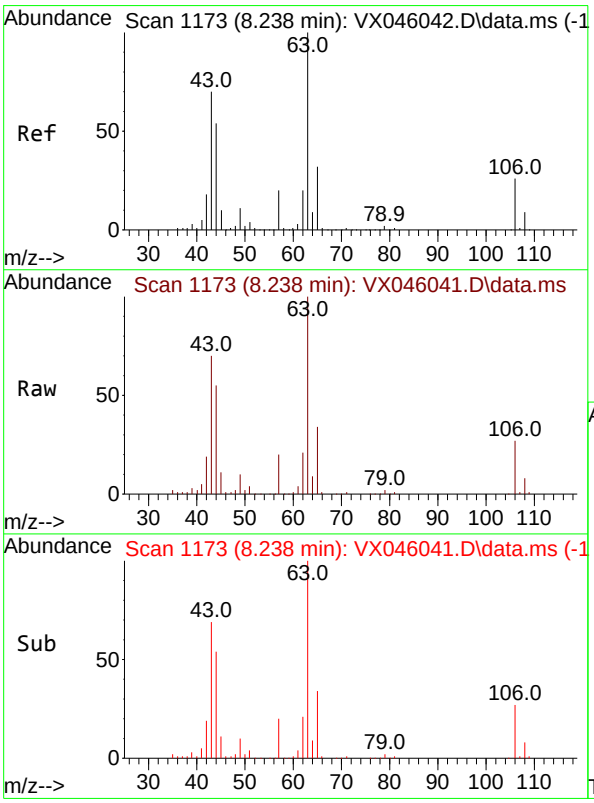
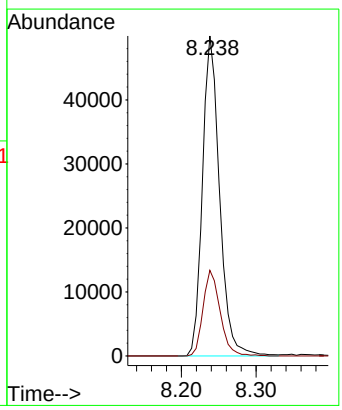
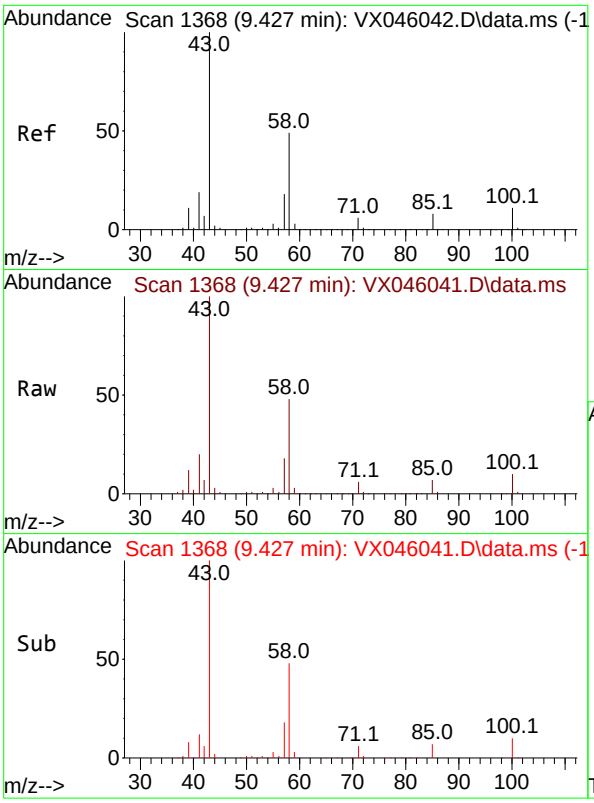


#58
2-Chloroethyl Vinyl ether
Concen: 80.312 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 63 Resp: 79531

Ion	Ratio	Lower	Upper
63	100		
106	26.7	21.5	32.3





#59
2-Hexanone
Concen: 74.997 ug/l
RT: 9.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 43 Resp: 13705

Ion	Ratio	Lower	Upper
43	100		
58	48.7	24.9	74.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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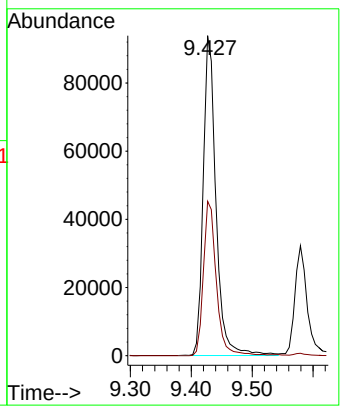
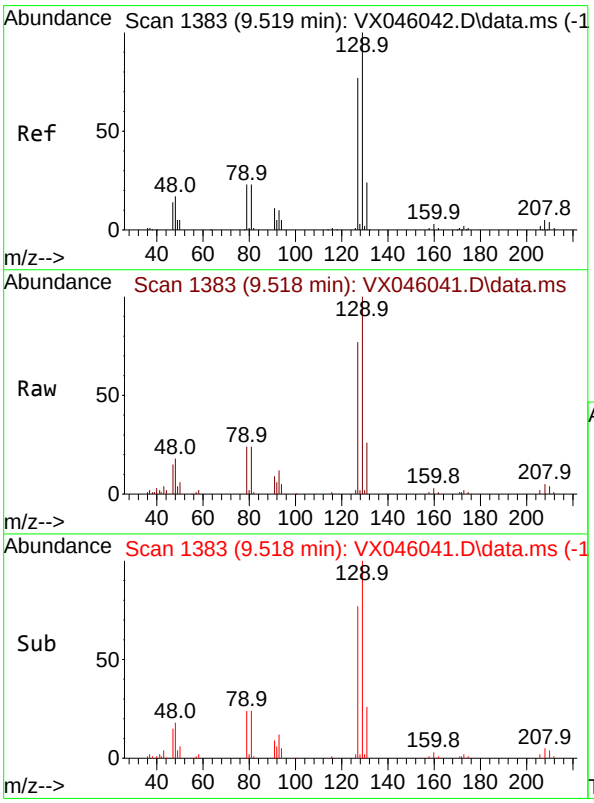
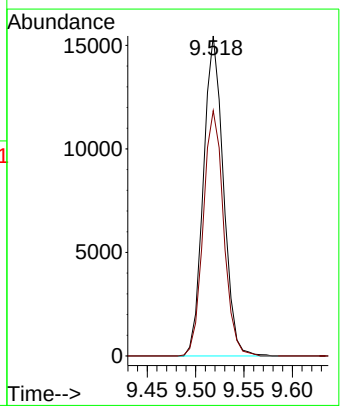


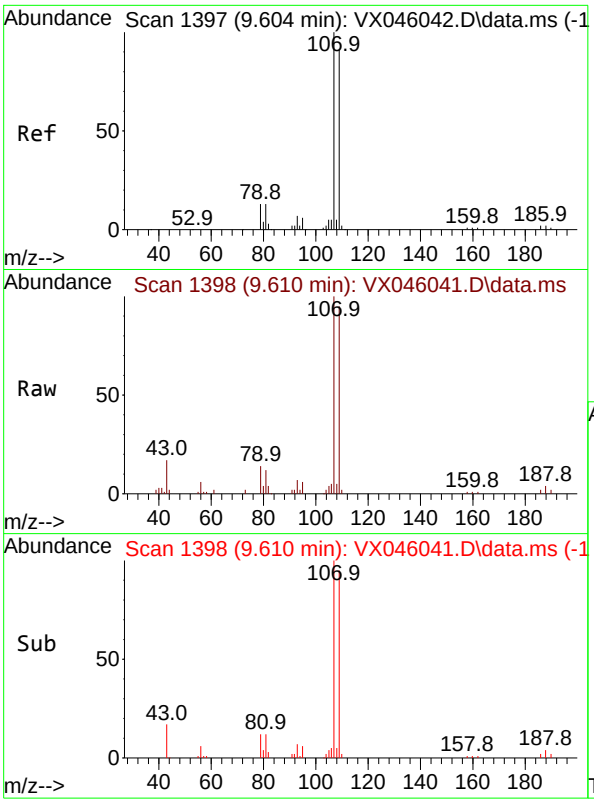


#60
Dibromochloromethane
Concen: 14.387 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion:129 Resp: 22267

Ion	Ratio	Lower	Upper
129	100		
127	78.0	39.3	117.8

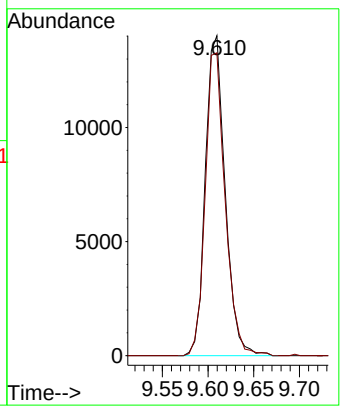




#61
1,2-Dibromoethane
Concen: 14.458 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion:107 Resp: 2111

Ion	Ratio	Lower	Upper
107	100		
109	95.3	73.3	109.9



Instrument :
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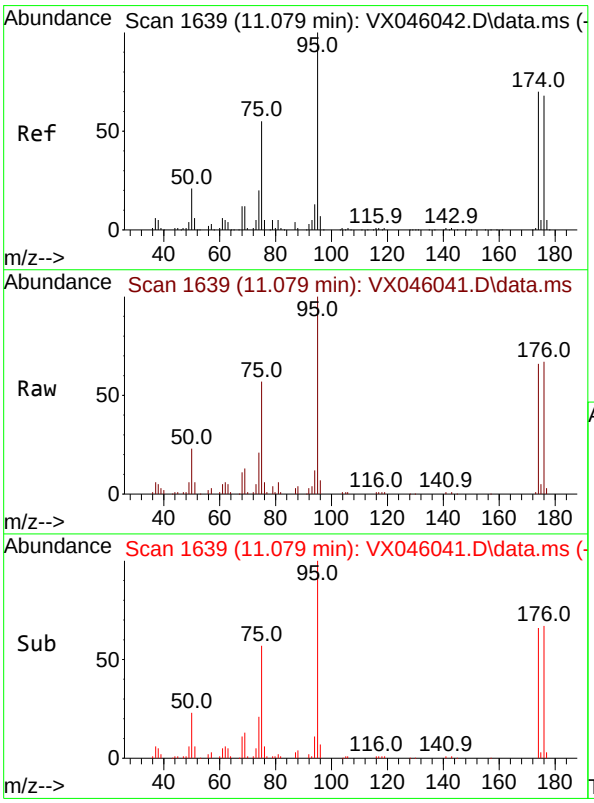
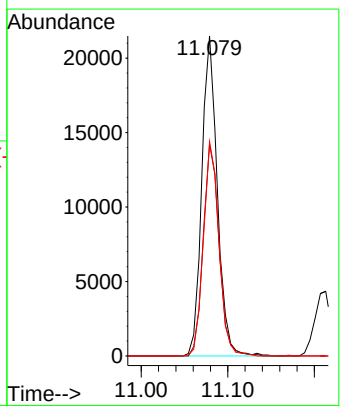
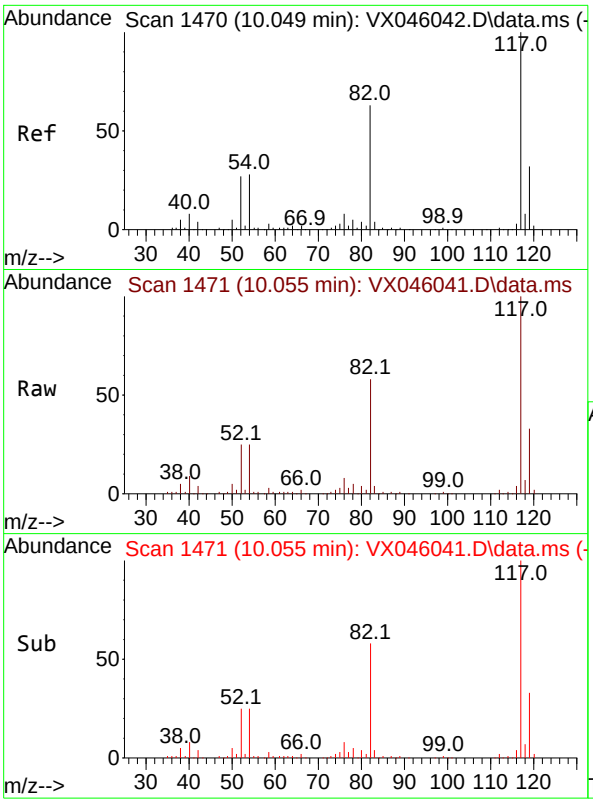


#62
4-Bromofluorobenzene
Concen: 13.236 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 95 Resp: 26760

Ion	Ratio	Lower	Upper
95	100		
174	67.4	0.0	135.8
176	67.0	0.0	131.4

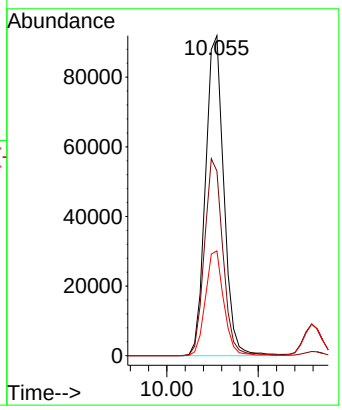




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion:117 Resp: 12782

Ion	Ratio	Lower	Upper
117	100		
82	57.7	50.6	76.0
119	32.7	25.8	38.6



Instrument :
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ClientSampleId :
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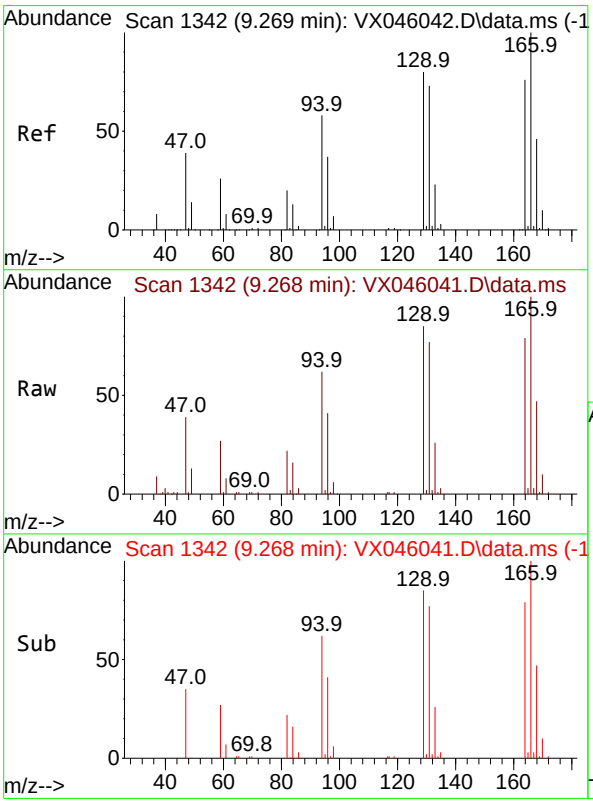
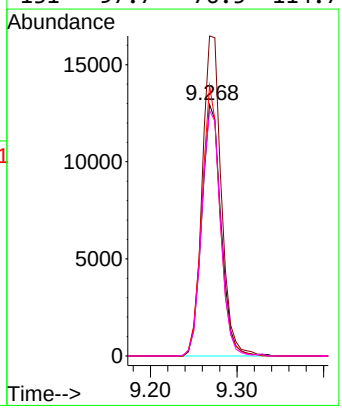
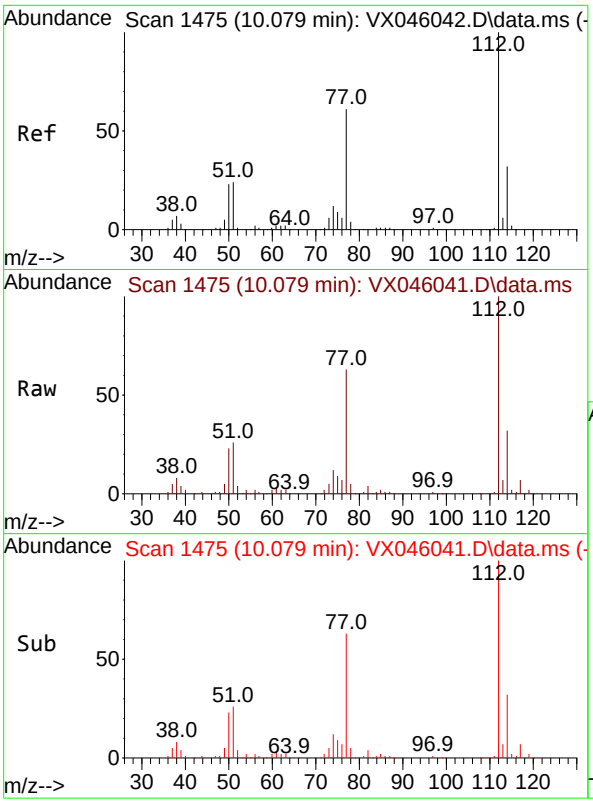


#64
Tetrachloroethene
Concen: 15.263 ug/l
RT: 9.268 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion:164 Resp: 19924

Ion	Ratio	Lower	Upper
164	100		
166	127.2	105.0	157.6
129	107.6	83.5	125.3
131	97.7	76.5	114.7

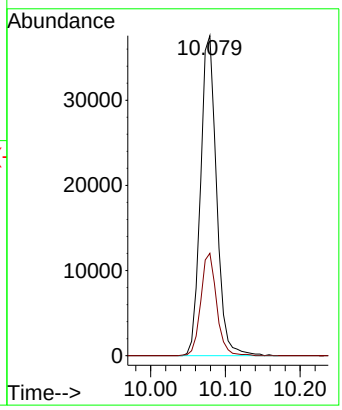




#65
Chlorobenzene
Concen: 14.202 ug/l
RT: 10.079 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion:112 Resp: 5586

Ion	Ratio	Lower	Upper
112	100		
114	32.0	25.4	38.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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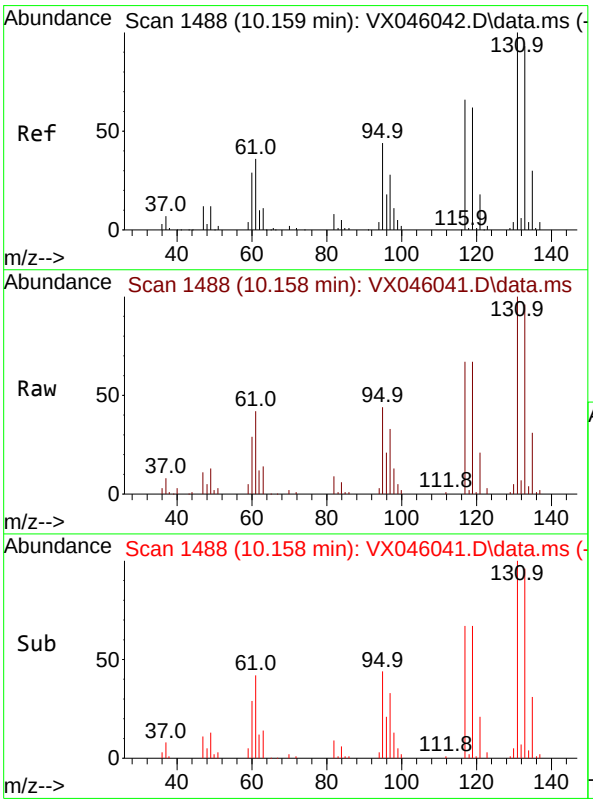
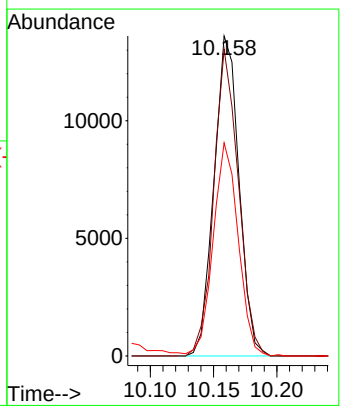
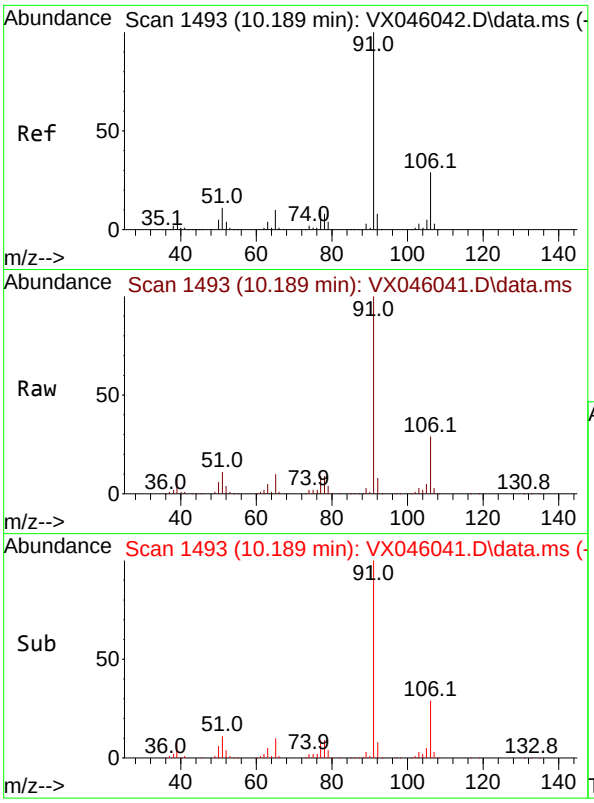


#66
1,1,1,2-Tetrachloroethane
Concen: 14.231 ug/l
RT: 10.158 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion:131 Resp: 18671

Ion	Ratio	Lower	Upper
131	100		
133	94.5	47.3	141.9
119	66.7	31.6	95.0

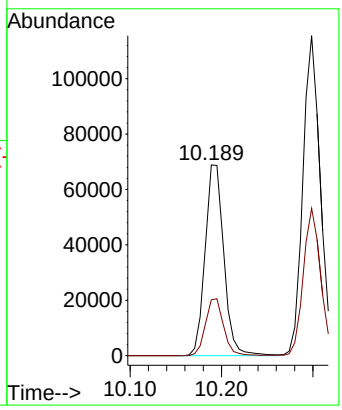




#67
Ethyl Benzene
Concen: 14.631 ug/l
RT: 10.189 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 91 Resp: 9811

Ion	Ratio	Lower	Upper
91	100		
106	29.3	23.4	35.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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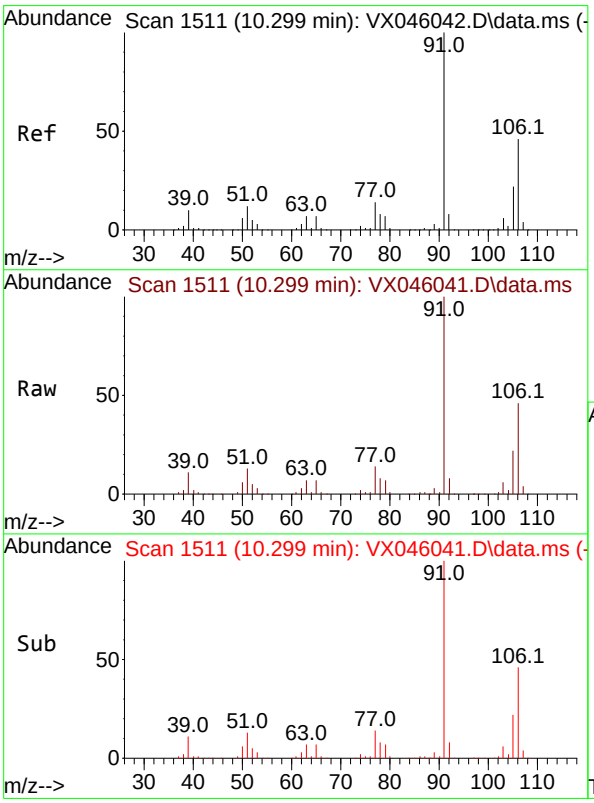
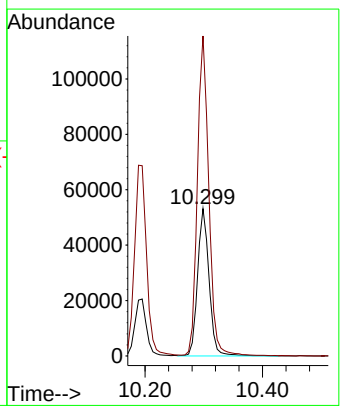
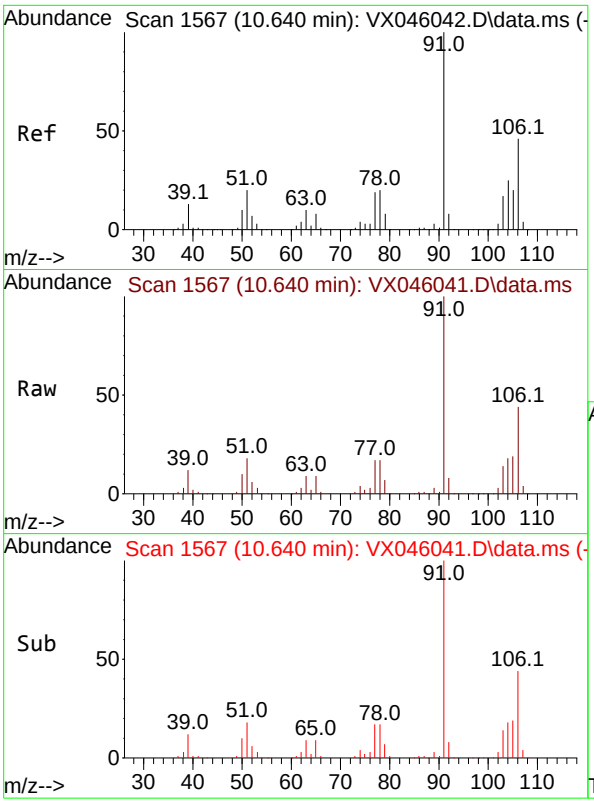


#68
m/p-Xylenes
Concen: 29.806 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion:106 Resp: 72202

Ion	Ratio	Lower	Upper
106	100		
91	216.1	171.2	256.8

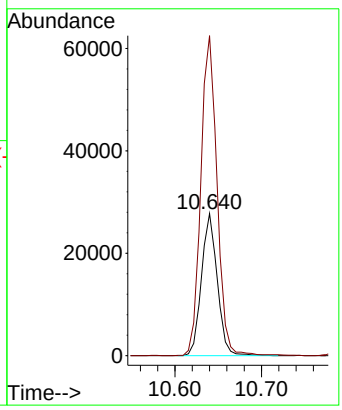




#69
o-Xylene
Concen: 14.408 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion:106 Resp: 3517

Ion	Ratio	Lower	Upper
106	100		
91	231.7	112.7	338.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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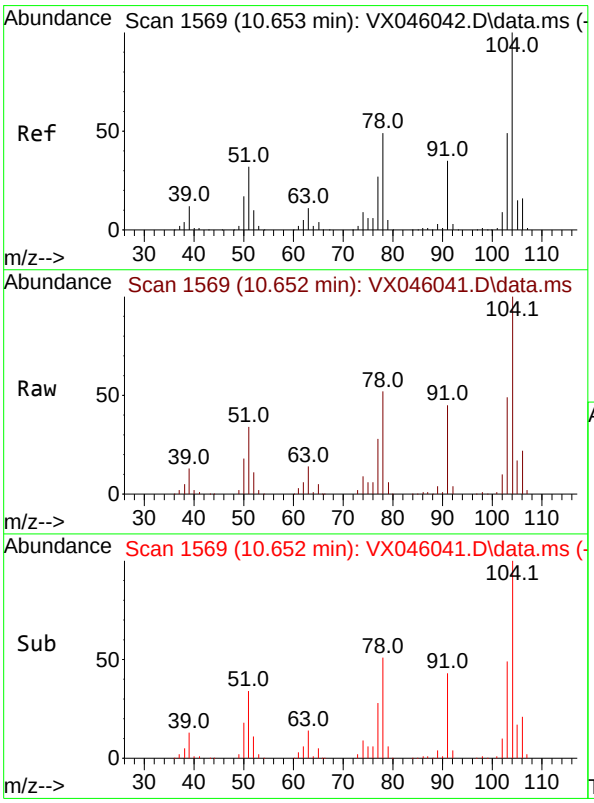
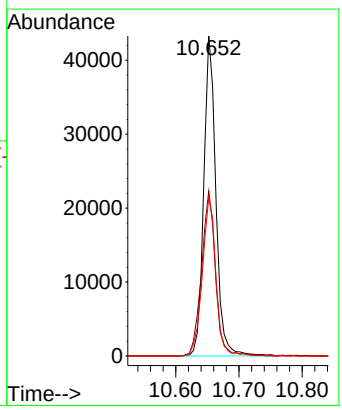
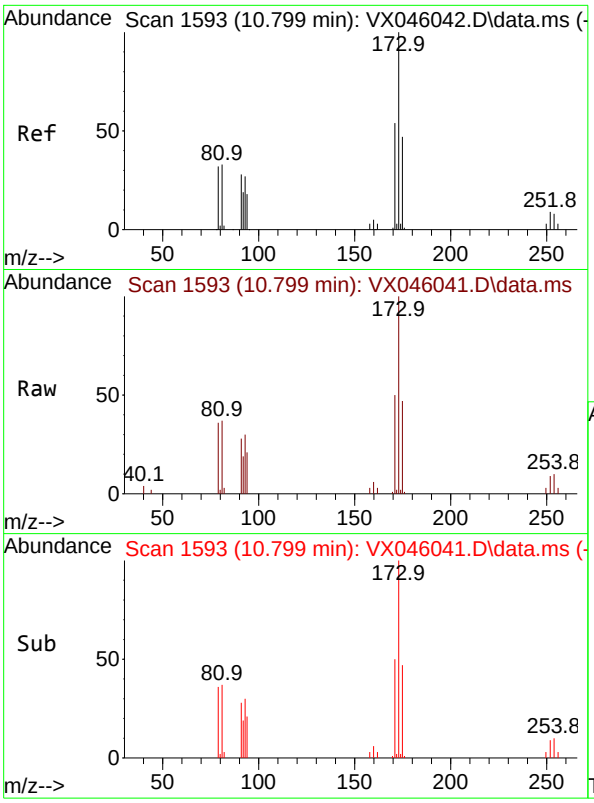


#70
Styrene
Concen: 14.853 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion:104 Resp: 58034

Ion	Ratio	Lower	Upper
104	100		
78	58.7	45.7	68.5
103	55.6	43.7	65.5

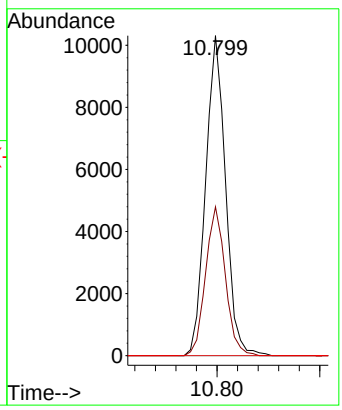




#71
Bromoform
Concen: 14.030 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion:173 Resp: 1382

Ion	Ratio	Lower	Upper
173	100		
175	46.4	23.4	70.0
254	0.0	0.0	0.0



Instrument :
MSVOA_X
ClientSampleId :
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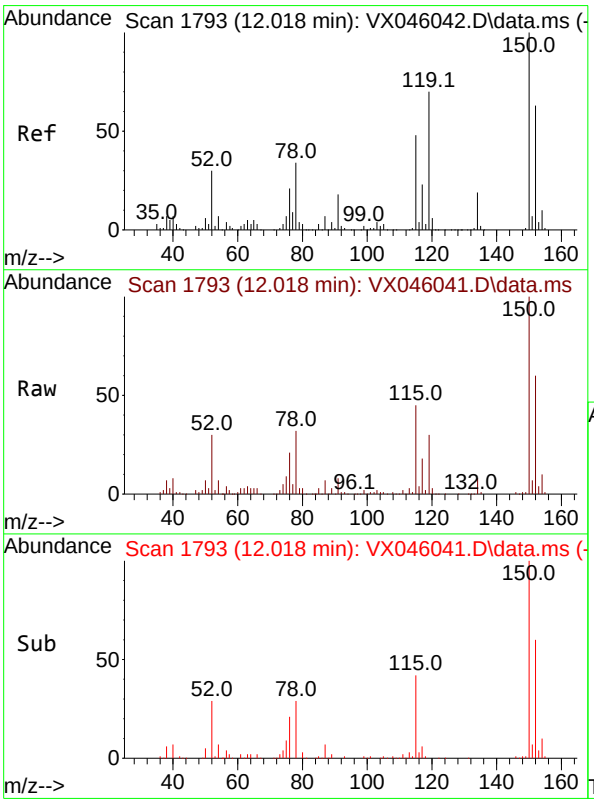
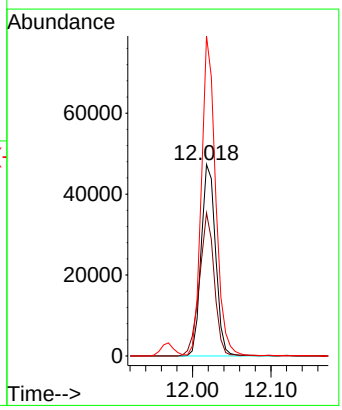
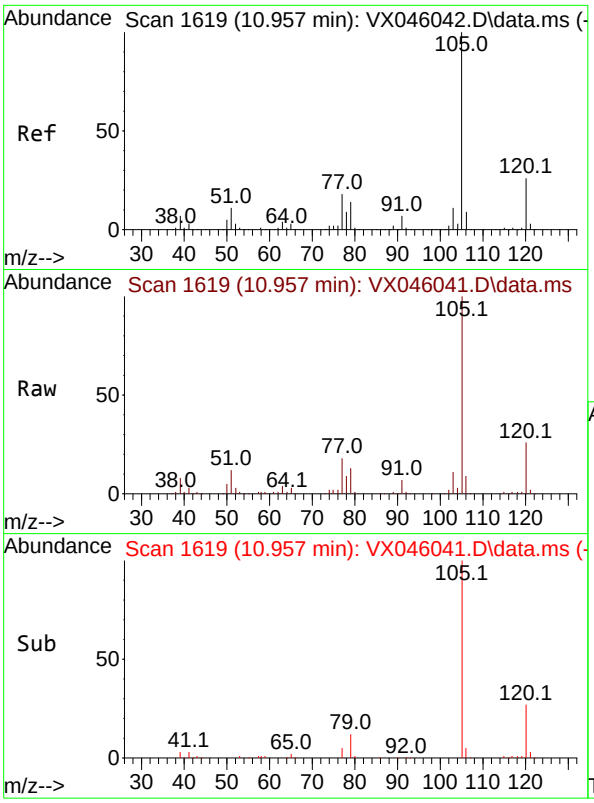


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion:152 Resp: 60503

Ion	Ratio	Lower	Upper
152	100		
115	76.6	46.9	140.7
150	163.6	0.0	351.0

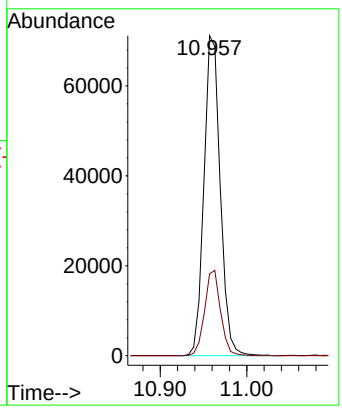




#73
Isopropylbenzene
Concen: 14.096 ug/l
RT: 10.957 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion:105 Resp: 9301

Ion	Ratio	Lower	Upper
105	100		
120	26.1	12.8	38.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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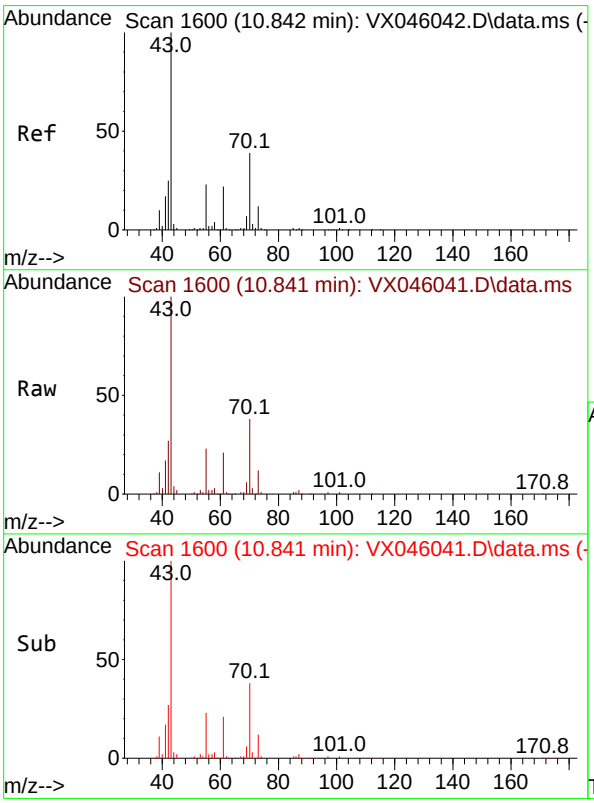
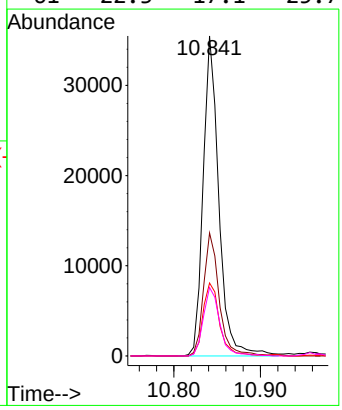
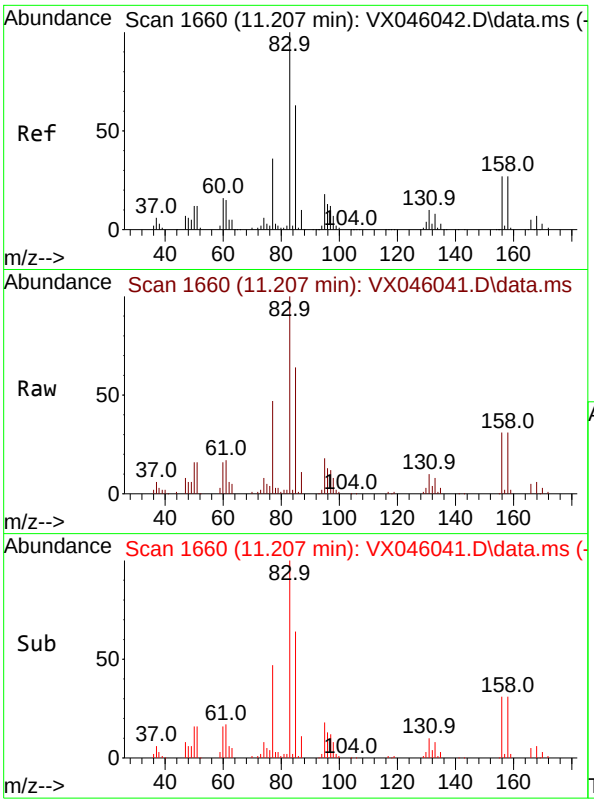


#74
N-amyl acetate
Concen: 13.581 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 43 Resp: 44684

Ion	Ratio	Lower	Upper
43	100		
70	38.5	30.9	46.3
55	24.1	18.7	28.1
61	22.3	17.1	25.7

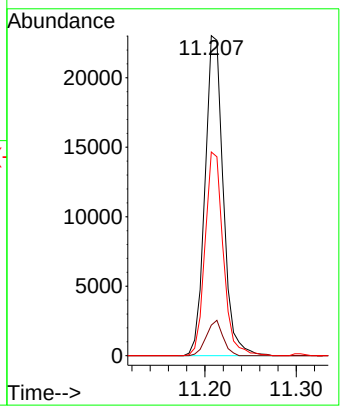




#75
1,1,2,2-Tetrachloroethane
Concen: 13.560 ug/l
RT: 11.207 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 83 Resp: 3183

Ion	Ratio	Lower	Upper
83	100		
131	10.1	5.0	14.9
85	63.3	31.9	95.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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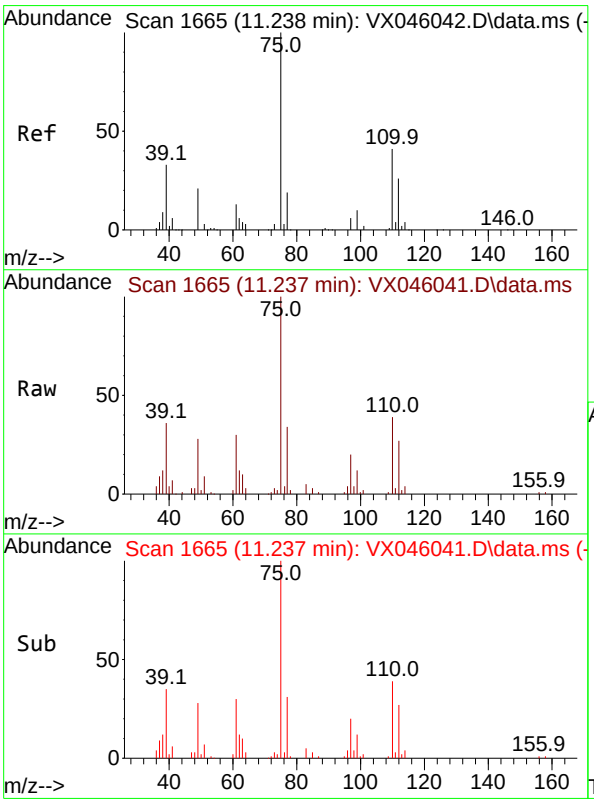
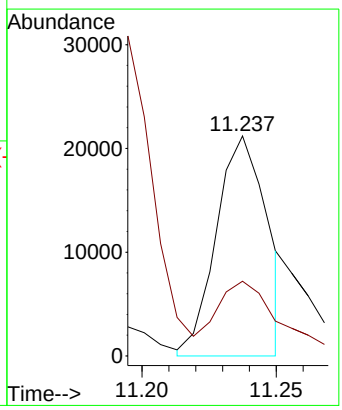
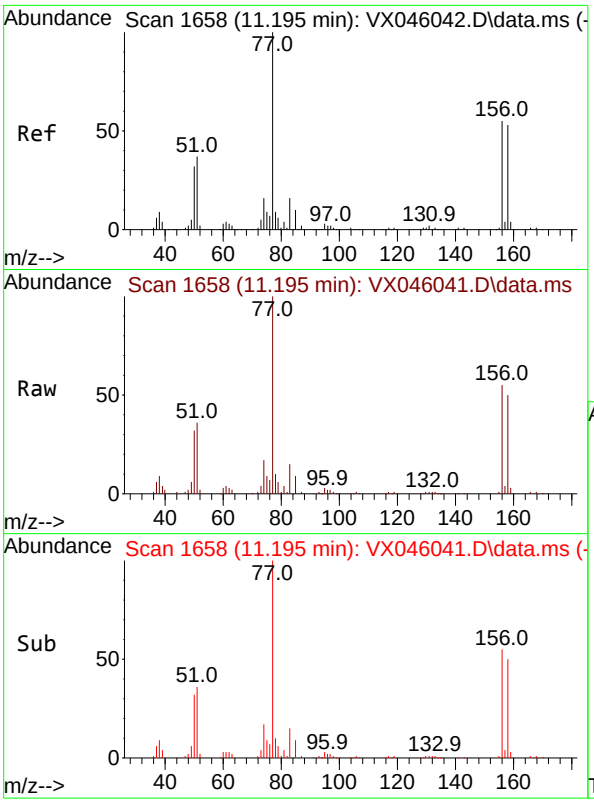


#76
1,2,3-Trichloropropane
Concen: 11.039 ug/l m
RT: 11.237 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 75 Resp: 27845

Ion	Ratio	Lower	Upper
75	100		
77	43.0	20.5	61.5

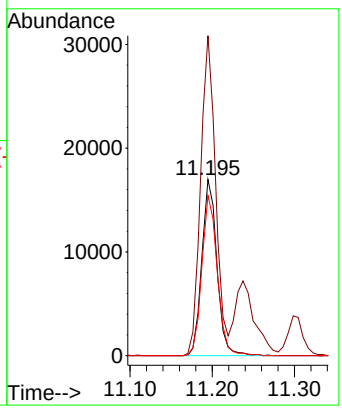




#77
Bromobenzene
Concen: 14.212 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion:156 Resp: 2169

Ion	Ratio	Lower	Upper
156	100		
77	179.9	92.8	278.3
158	93.1	48.8	146.3



Instrument :
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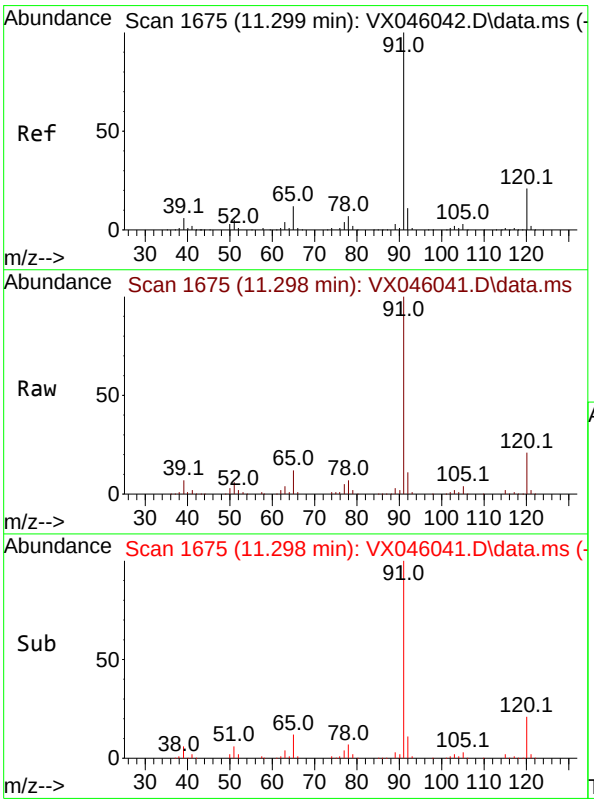
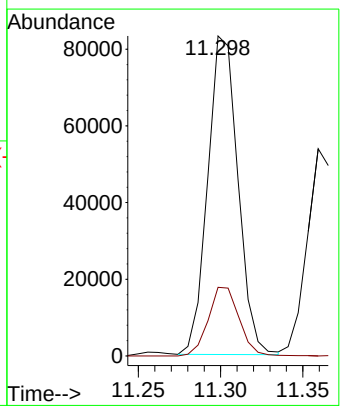
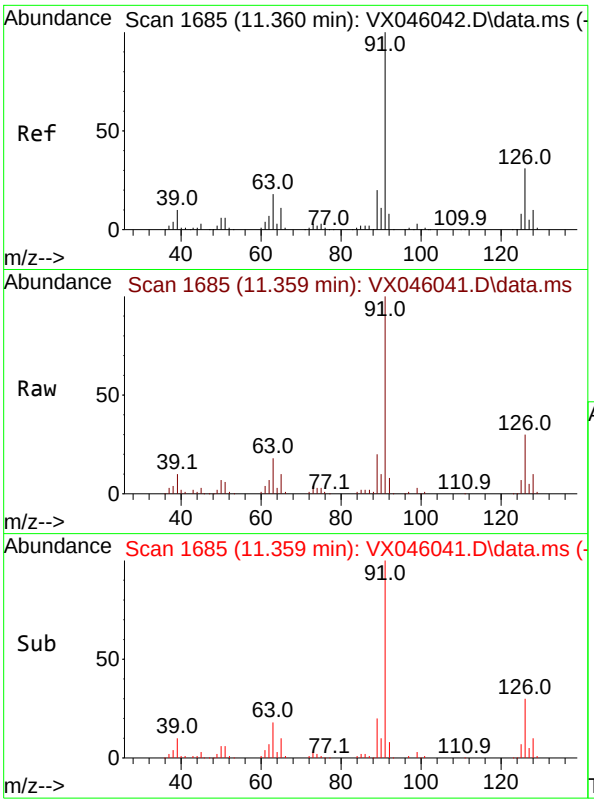


#78
n-propylbenzene
Concen: 14.376 ug/l
RT: 11.298 min Scan# 1675
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 91 Resp: 106337

Ion	Ratio	Lower	Upper
91	100		
120	22.0	10.8	32.4





#79
2-Chlorotoluene
Concen: 13.748 ug/l
RT: 11.359 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 91 Resp: 6853

Ion	Ratio	Lower	Upper
91	100		
126	31.4	15.6	46.7

Instrument :
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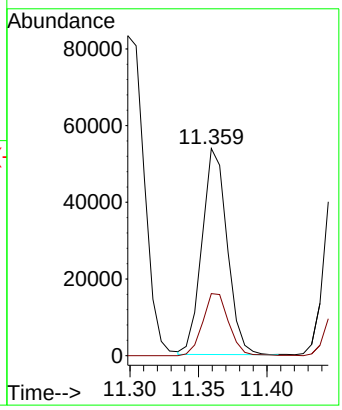
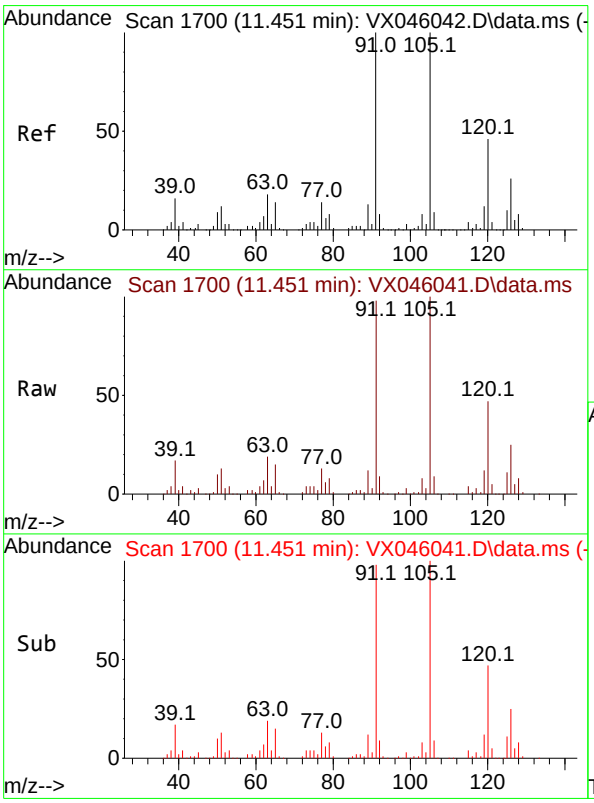
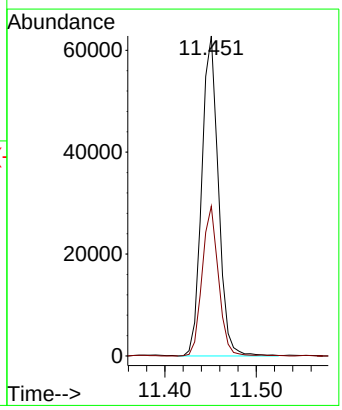


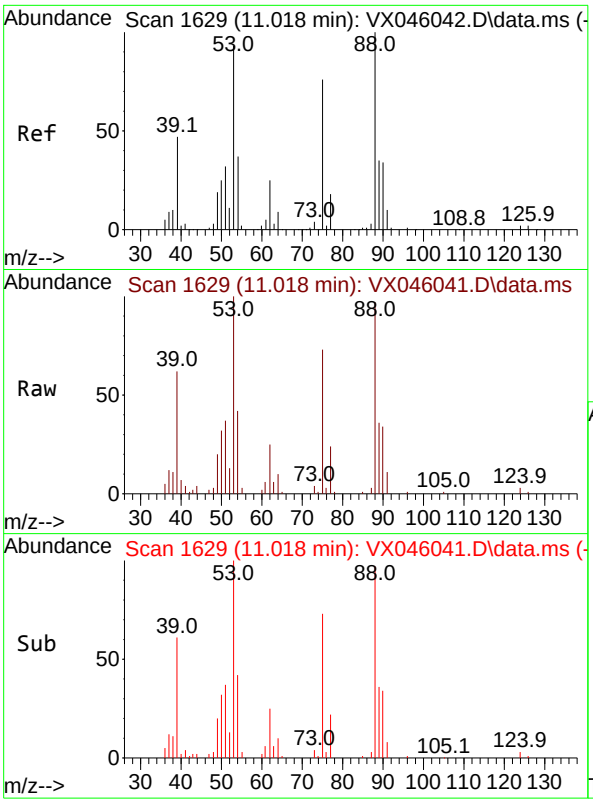


#80
1,3,5-Trimethylbenzene
Concen: 14.468 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion:105 Resp: 79261

Ion	Ratio	Lower	Upper
105	100		
120	45.9	23.1	69.2

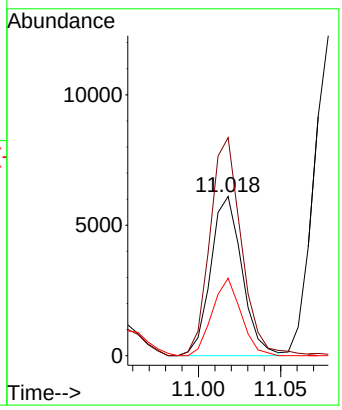




#81
trans-1,4-Dichloro-2-butene
Concen: 13.371 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 75 Resp: 810

Ion	Ratio	Lower	Upper
75	100		
53	138.3	100.5	150.7
89	44.6	37.0	55.6



Instrument :
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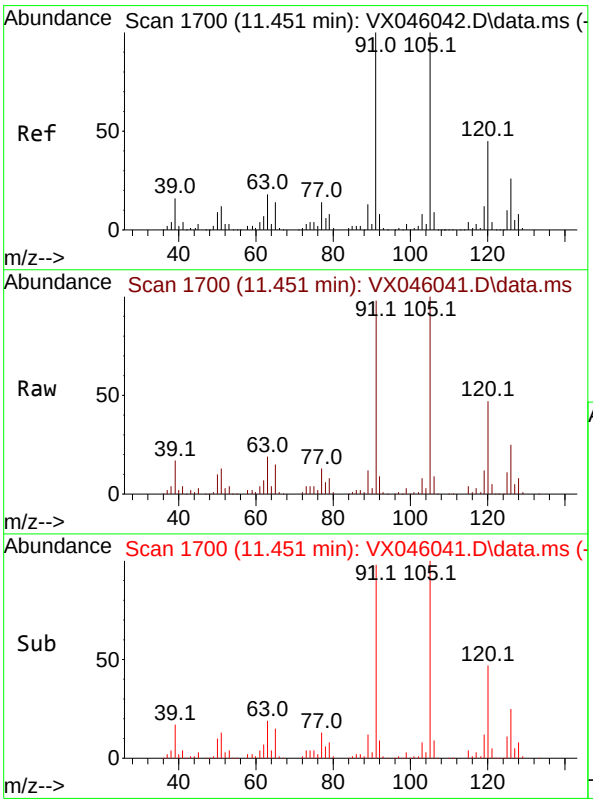
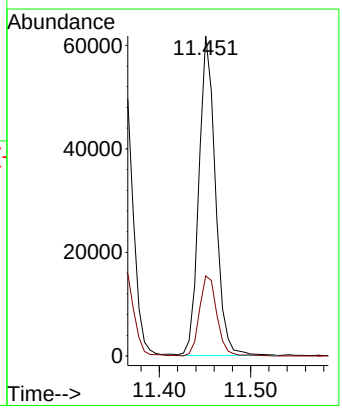
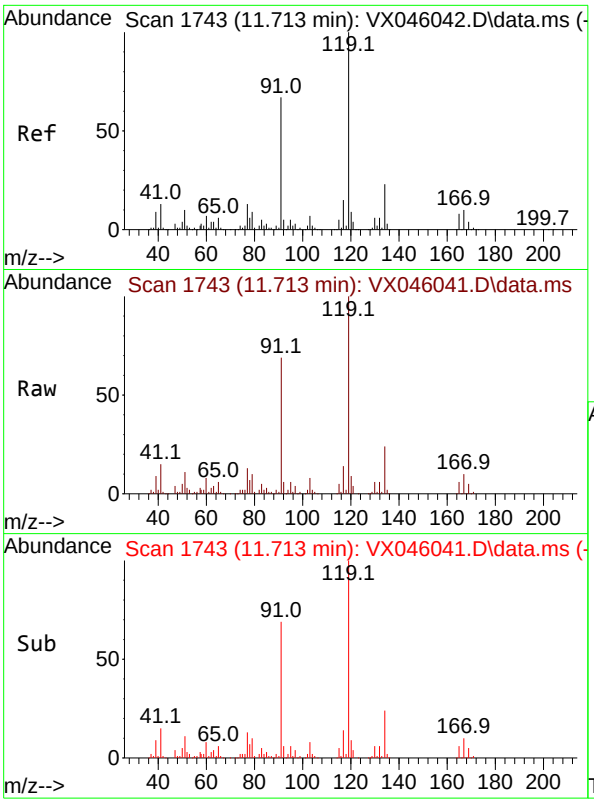


#82
4-Chlorotoluene
Concen: 14.116 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 91 Resp: 77338

Ion	Ratio	Lower	Upper
91	100		
126	26.5	13.3	39.8

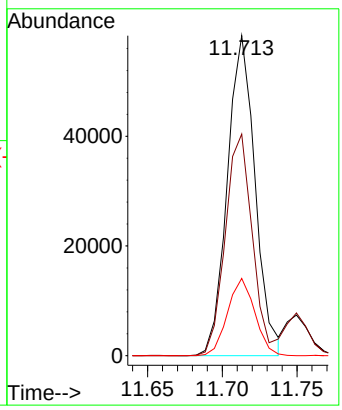




#83
tert-Butylbenzene
Concen: 14.011 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion:119 Resp: 7538

Ion	Ratio	Lower	Upper
119	100		
91	66.8	32.9	98.7
134	23.7	11.4	34.1



Instrument :
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ClientSampleId :
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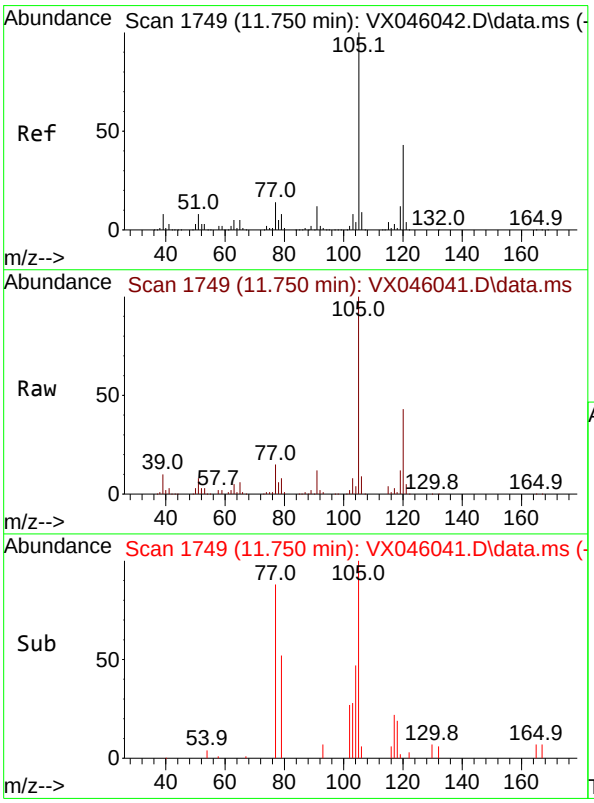
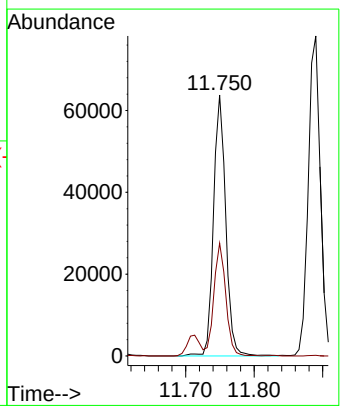
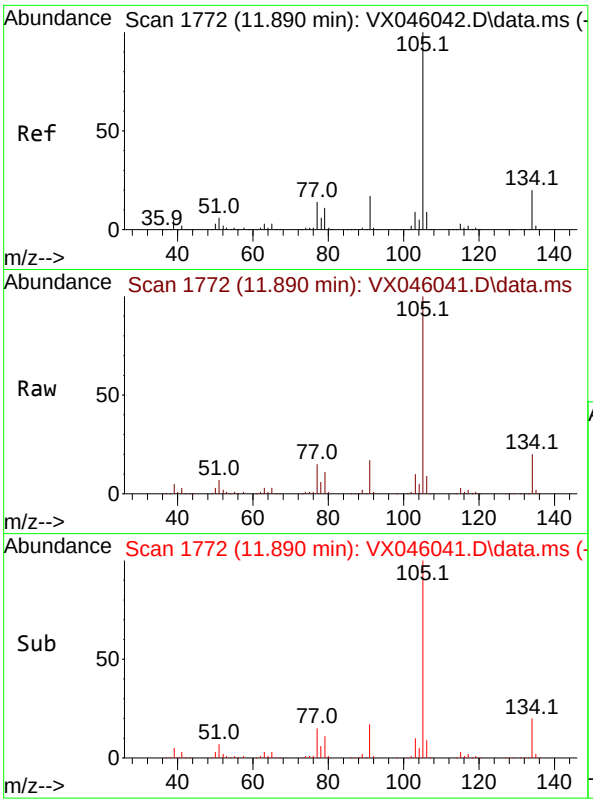


#84
1,2,4-Trimethylbenzene
Concen: 14.480 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion:105 Resp: 79232

Ion	Ratio	Lower	Upper
105	100		
120	42.0	21.2	63.6





#85
sec-Butylbenzene
Concen: 14.263 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion:105 Resp: 9527

Ion	Ratio	Lower	Upper
105	100		
134	19.3	9.7	29.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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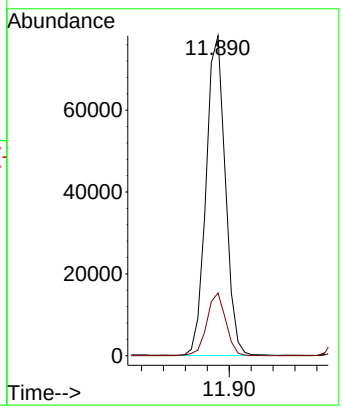
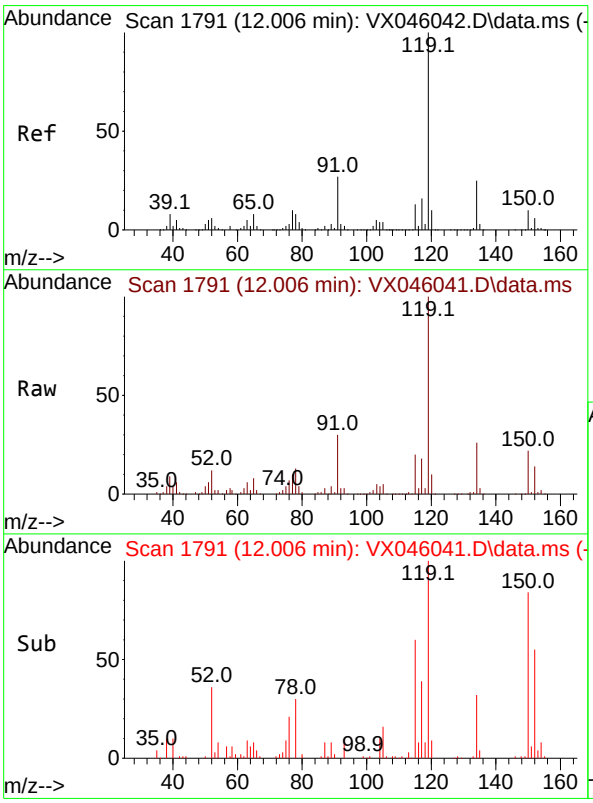
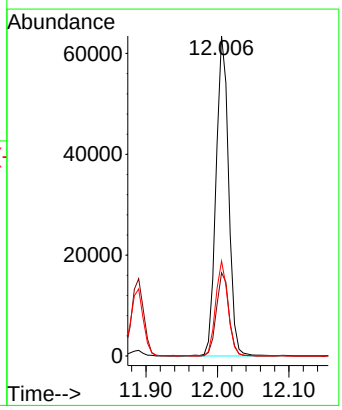


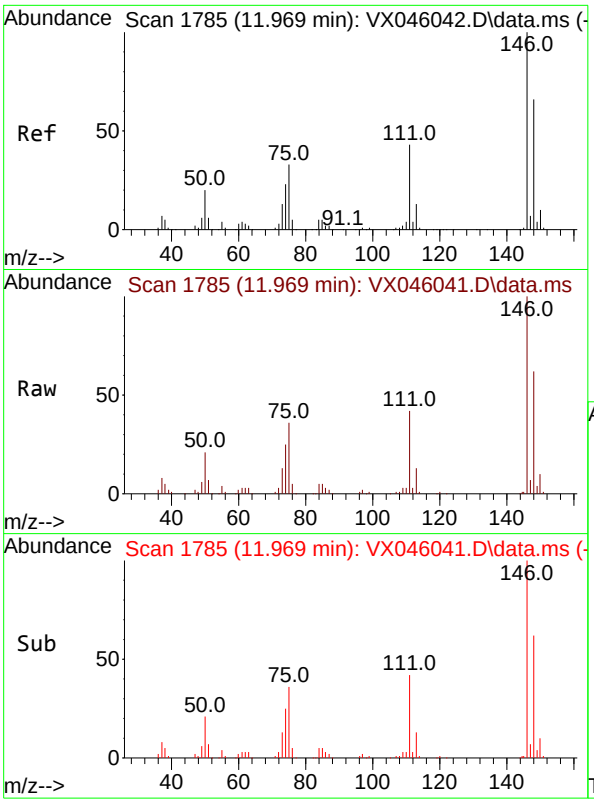


#86
p-Isopropyltoluene
Concen: 14.387 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion:119 Resp: 77599

Ion	Ratio	Lower	Upper
119	100		
134	25.9	12.5	37.5
91	28.8	13.8	41.4

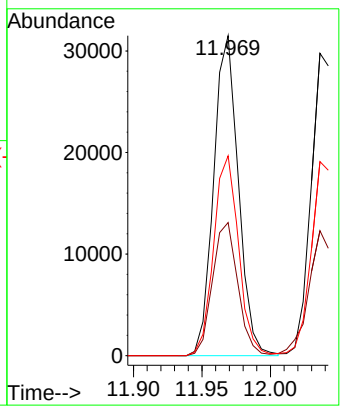




#87
1,3-Dichlorobenzene
Concen: 13.898 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion:146 Resp: 3952

Ion	Ratio	Lower	Upper
146	100		
111	42.7	22.1	66.3
148	62.9	32.1	96.5



Instrument :
MSVOA_X
ClientSampleId :
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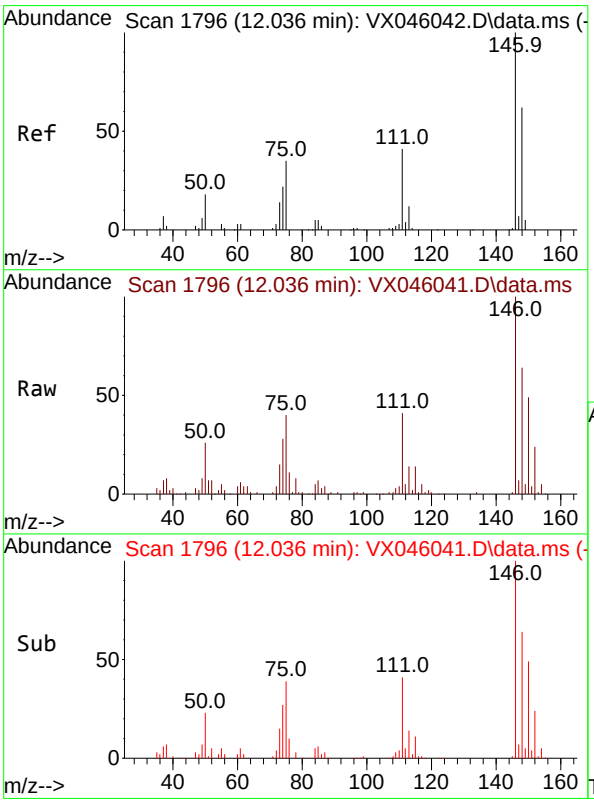
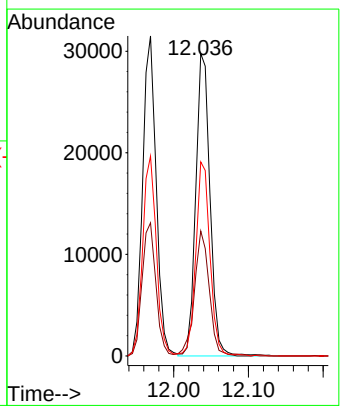
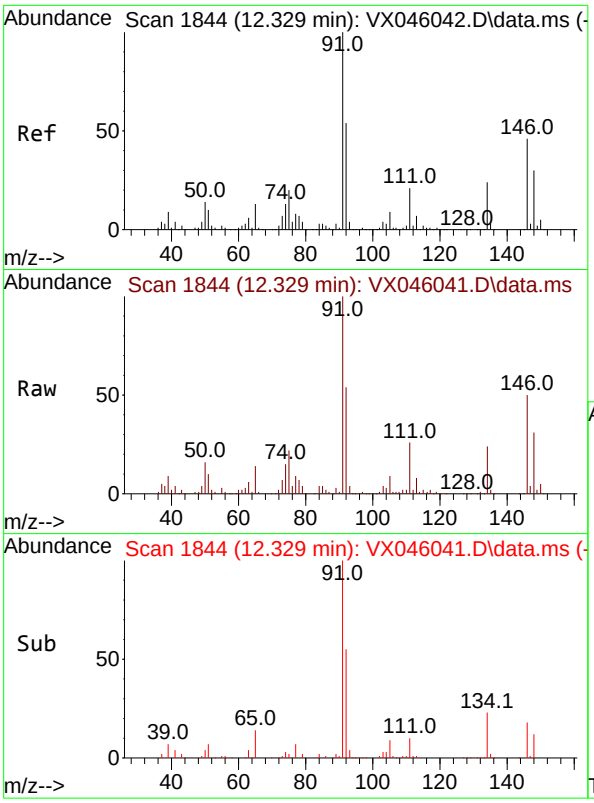


#88
1,4-Dichlorobenzene
Concen: 14.146 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion:146 Resp: 39419

Ion	Ratio	Lower	Upper
146	100		
111	42.8	21.3	63.9
148	64.2	31.9	95.5

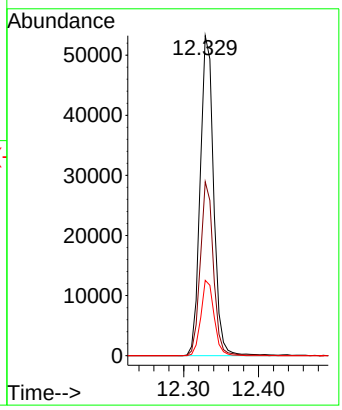




#89
n-Butylbenzene
Concen: 14.184 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 91 Resp: 6650

Ion	Ratio	Lower	Upper
91	100		
92	52.9	26.9	80.7
134	23.1	11.8	35.3



Instrument :
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ClientSampleId :
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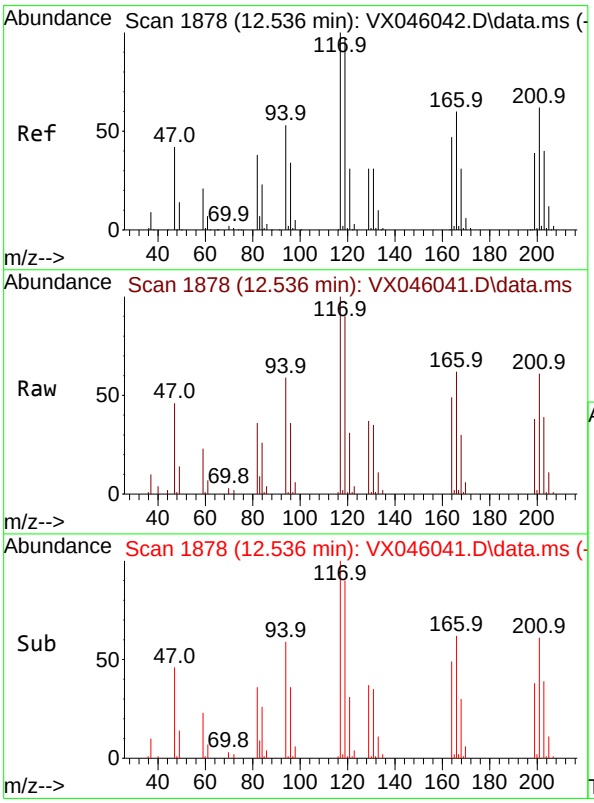
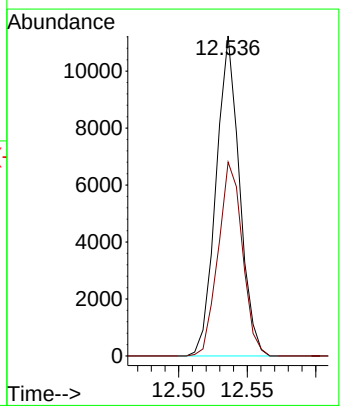
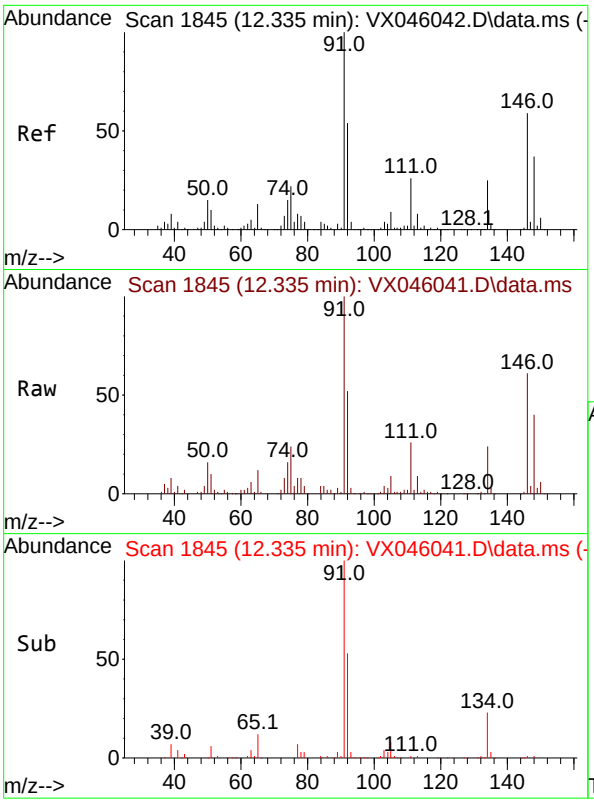


#90
Hexachloroethane
Concen: 13.287 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion:117 Resp: 13332

Ion	Ratio	Lower	Upper
117	100		
201	62.9	31.6	94.7

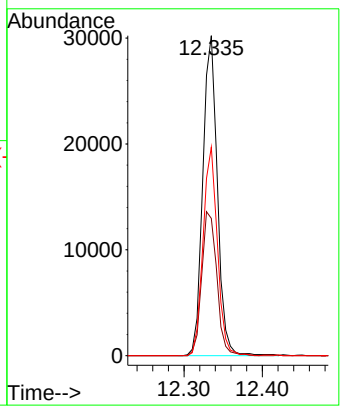




#91
1,2-Dichlorobenzene
Concen: 14.092 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion:146 Resp: 3903

Ion	Ratio	Lower	Upper
146	100		
111	46.6	22.4	67.3
148	64.2	31.6	94.8



Instrument :
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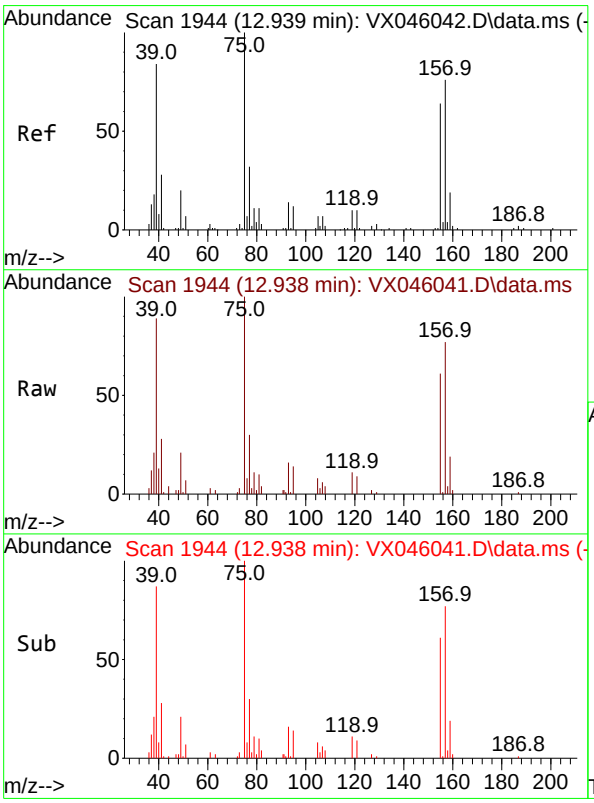
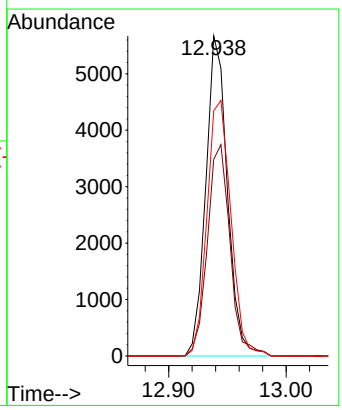
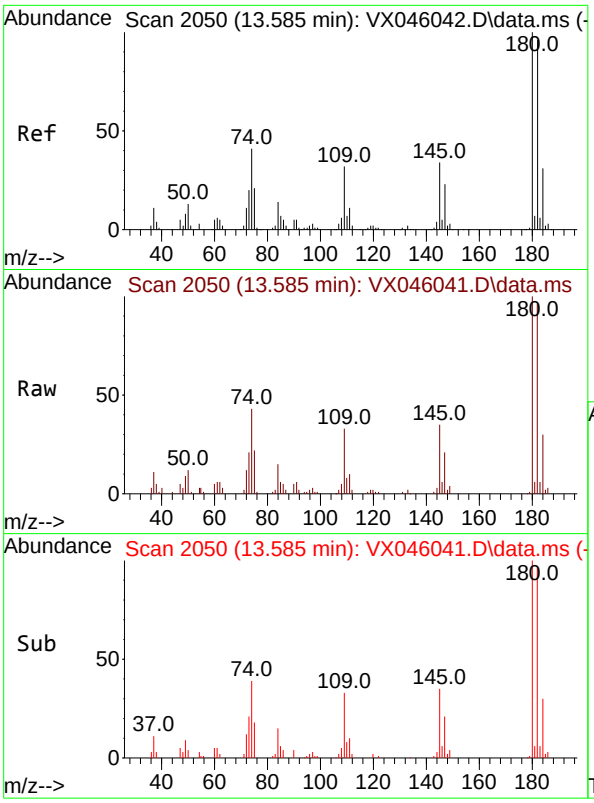


#92
1,2-Dibromo-3-Chloropropane
Concen: 13.535 ug/l
RT: 12.938 min Scan# 1944
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 75 Resp: 7232

Ion	Ratio	Lower	Upper
75	100		
155	69.4	34.9	104.8
157	88.4	43.8	131.4

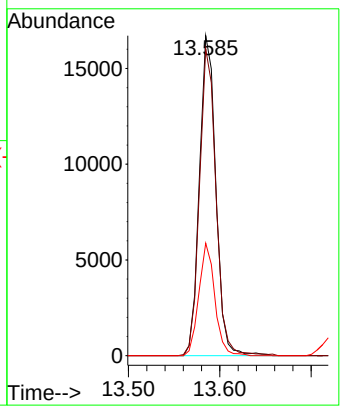




#93
1,2,4-Trichlorobenzene
Concen: 13.745 ug/l
RT: 13.585 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion:180 Resp: 2084

Ion	Ratio	Lower	Upper
180	100		
182	96.6	47.9	143.8
145	34.1	17.1	51.2



Instrument :
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ClientSampleId :
VSTDICC020

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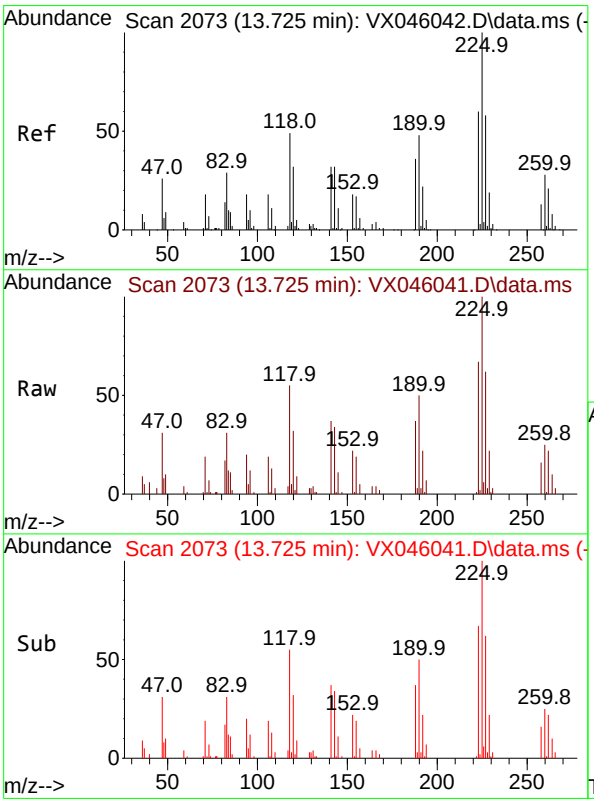
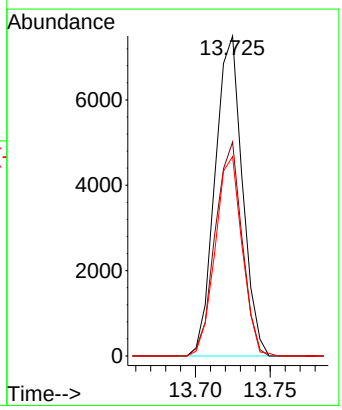
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

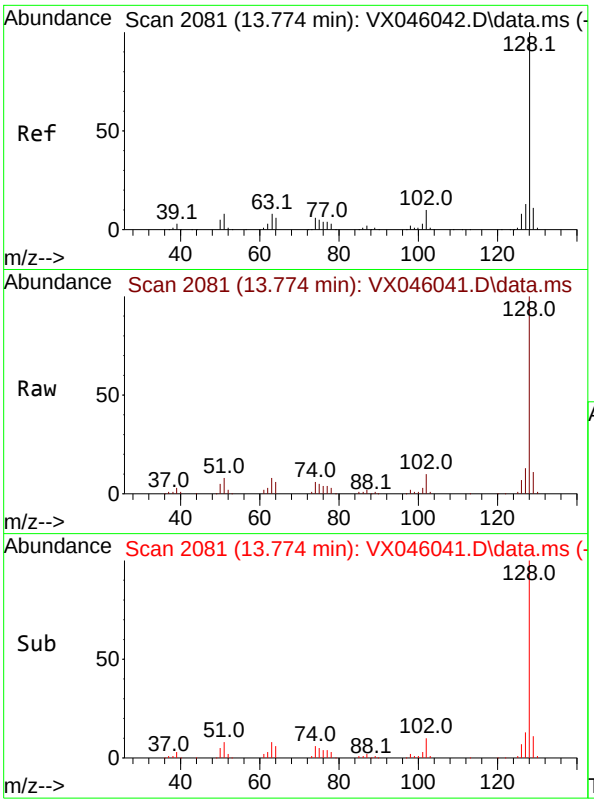


#94
Hexachlorobutadiene
Concen: 13.426 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion:225 Resp: 9524

Ion	Ratio	Lower	Upper
225	100		
223	65.6	30.8	92.4
227	61.4	30.9	92.7

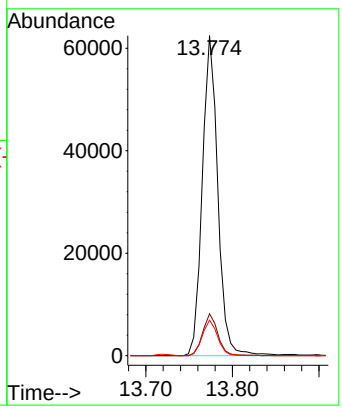




#95
Naphthalene
Concen: 14.040 ug/l
RT: 13.774 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion:128 Resp: 7754

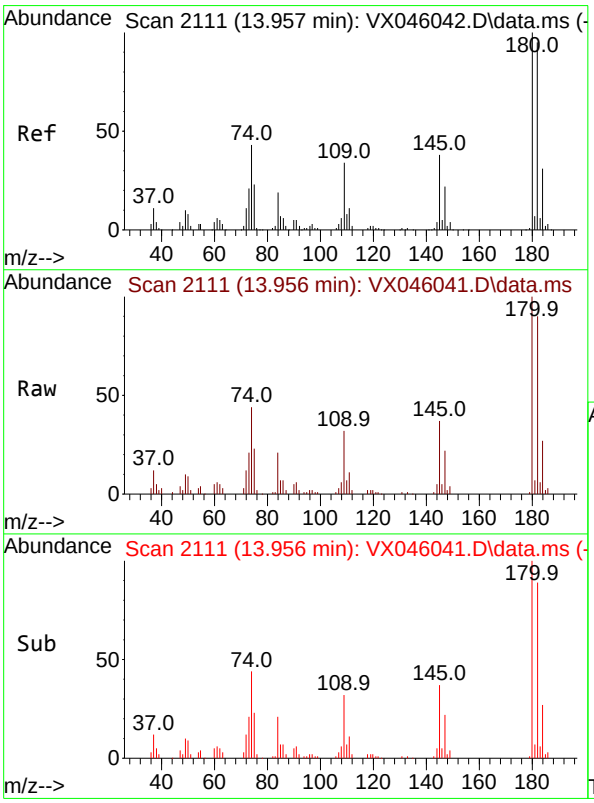
Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.4	15.6
129	11.1	8.6	13.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

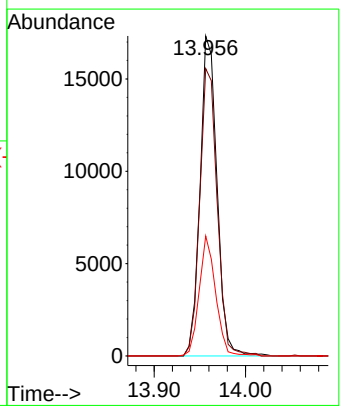
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025



#96
1,2,3-Trichlorobenzene
Concen: 14.023 ug/l
RT: 13.956 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion:180 Resp: 22301

Ion	Ratio	Lower	Upper
180	100		
182	92.1	47.8	143.3
145	36.5	18.1	54.3



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046042.D
Acq On : 05 May 2025 11:58
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

Quant Time: May 06 06:09:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	97076	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	167947	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	146257	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	67976	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	88371	30.601	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	61.200%#		
35) Dibromofluoromethane	5.379	113	59550	31.633	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	63.260%#		
50) Toluene-d8	8.647	98	205479	32.395	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	64.780%#		
62) 4-Bromofluorobenzene	11.079	95	79012	34.229	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	68.460%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	83826	39.120	ug/l	100
3) Chloromethane	1.307	50	75238	35.658	ug/l	100
4) Vinyl Chloride	1.374	62	68901	37.273	ug/l	100
5) Bromomethane	1.593	94	31648	33.765	ug/l	100
6) Chloroethane	1.666	64	36722	38.558	ug/l	100
7) Trichlorofluoromethane	1.874	101	103693	36.824	ug/l	100
8) Diethyl Ether	2.136	74	32724	35.350	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.319	101	62251	36.997	ug/l	100
10) Methyl Iodide	2.447	142	78277	39.622	ug/l	100
11) Tert butyl alcohol	2.977	59	62557	181.745	ug/l	100
12) 1,1-Dichloroethene	2.313	96	58334	35.610	ug/l	100
13) Acrolein	2.233	56	73927	184.907	ug/l	100
14) Allyl chloride	2.654	41	114445	36.971	ug/l	100
15) Acrylonitrile	3.062	53	188304	182.874	ug/l	100
16) Acetone	2.386	43	175777	177.910	ug/l	100
17) Carbon Disulfide	2.502	76	141281	37.223	ug/l	100
18) Methyl Acetate	2.703	43	82347	34.915	ug/l	100
19) Methyl tert-butyl Ether	3.111	73	209665	36.695	ug/l	100
20) Methylene Chloride	2.782	84	66412	33.182	ug/l	100
21) trans-1,2-Dichloroethene	3.087	96	59234	35.421	ug/l	100
22) Diisopropyl ether	3.757	45	221172	38.241	ug/l	100
23) Vinyl Acetate	3.721	43	994236	194.528	ug/l	100
24) 1,1-Dichloroethane	3.605	63	122601	36.067	ug/l	100
25) 2-Butanone	4.556	43	269224	188.783	ug/l	100
26) 2,2-Dichloropropane	4.465	77	92857	36.059	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	71518	35.466	ug/l	100
28) Bromochloromethane	4.898	49	56091	31.031	ug/l	100
29) Tetrahydrofuran	5.001	42	170124	183.679	ug/l	100
30) Chloroform	5.087	83	125850	35.626	ug/l	100
31) Cyclohexane	5.464	56	109459	38.205	ug/l	100
32) 1,1,1-Trichloroethane	5.373	97	109781	36.034	ug/l	100
36) 1,1-Dichloropropene	5.684	75	83215	38.073	ug/l	100
37) Ethyl Acetate	4.715	43	102537	37.394	ug/l	100
38) Carbon Tetrachloride	5.672	117	93712	37.320	ug/l	100
39) Methylcyclohexane	7.373	83	107651	39.307	ug/l	100
40) Benzene	6.031	78	247476	36.530	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046042.D
Acq On : 05 May 2025 11:58
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 06 06:09:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.916	41	58082	38.123	ug/l		100
42) 1,2-Dichloroethane	6.080	62	105332	37.605	ug/l		100
43) Isopropyl Acetate	6.336	43	161787	38.598	ug/l		100
44) Trichloroethene	7.123	130	59623	37.230	ug/l		100
45) 1,2-Dichloropropane	7.428	63	62387	37.064	ug/l		100
46) Dibromomethane	7.574	93	48201	36.326	ug/l		100
47) Bromodichloromethane	7.818	83	96916	37.685	ug/l		100
48) Methyl methacrylate	7.690	41	84277	39.157	ug/l		100
49) 1,4-Dioxane	7.659	88	30529	713.477	ug/l		100
51) 4-Methyl-2-Pentanone	8.574	43	532388	193.653	ug/l		100
52) Toluene	8.714	92	150757	37.530	ug/l		100
53) t-1,3-Dichloropropene	8.976	75	88655	41.056	ug/l		100
54) cis-1,3-Dichloropropene	8.360	75	97031	38.521	ug/l		100
55) 1,1,2-Trichloroethane	9.147	97	59499	36.648	ug/l		100
56) Ethyl methacrylate	9.116	69	99947	39.726	ug/l		100
57) 1,3-Dichloropropane	9.305	76	104606	36.347	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	257678	227.902	ug/l		100
59) 2-Hexanone	9.427	43	396784	190.168	ug/l		100
60) Dibromochloromethane	9.519	129	67198	38.027	ug/l		100
61) 1,2-Dibromoethane	9.604	107	62633	37.567	ug/l		100
64) Tetrachloroethene	9.269	164	54853	36.726	ug/l		100
65) Chlorobenzene	10.079	112	160600	35.686	ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.159	131	57066	38.017	ug/l		100
67) Ethyl Benzene	10.189	91	295712	38.543	ug/l		100
68) m/p-Xylenes	10.299	106	216578	78.142	ug/l		100
69) o-Xylene	10.640	106	106335	38.064	ug/l		100
70) Styrene	10.653	104	178313	39.888	ug/l		100
71) Bromoform	10.799	173	44486	39.457	ug/l	#	100
73) Isopropylbenzene	10.957	105	280719	37.865	ug/l		100
74) N-amyl acetate	10.842	43	140509	38.012	ug/l		100
75) 1,1,2,2-Tetrachloroethane	11.207	83	90975	34.495	ug/l		100
76) 1,2,3-Trichloropropane	11.238	75	80678m	28.468	ug/l		
77) Bromobenzene	11.195	156	63053	36.763	ug/l		100
78) n-propylbenzene	11.299	91	329981	39.707	ug/l		100
79) 2-Chlorotoluene	11.360	91	203509	36.336	ug/l		100
80) 1,3,5-Trimethylbenzene	11.451	105	237066	38.516	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	26179	38.445	ug/l		100
82) 4-Chlorotoluene	11.451	91	233172	37.880	ug/l		100
83) tert-Butylbenzene	11.713	119	233468	38.622	ug/l		100
84) 1,2,4-Trimethylbenzene	11.750	105	239433	38.946	ug/l		100
85) sec-Butylbenzene	11.890	105	291074	38.786	ug/l		100
86) p-Isopropyltoluene	12.006	119	241658	39.879	ug/l		100
87) 1,3-Dichlorobenzene	11.969	146	115651	36.199	ug/l		100
88) 1,4-Dichlorobenzene	12.036	146	115097	36.763	ug/l		100
89) n-Butylbenzene	12.329	91	213899	40.603	ug/l		100
90) Hexachloroethane	12.536	117	42314	37.534	ug/l		100
91) 1,2-Dichlorobenzene	12.335	146	115286	37.047	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	12.939	75	21909	36.496	ug/l		100
93) 1,2,4-Trichlorobenzene	13.585	180	66655	39.117	ug/l		100
94) Hexachlorobutadiene	13.725	225	29007	36.395	ug/l		100
95) Naphthalene	13.774	128	245568	39.575	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	69262	38.765	ug/l		100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046042.D
Acq On : 05 May 2025 11:58
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 06 06:09:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046042.D
Acq On : 05 May 2025 11:58
Operator : JC/MD
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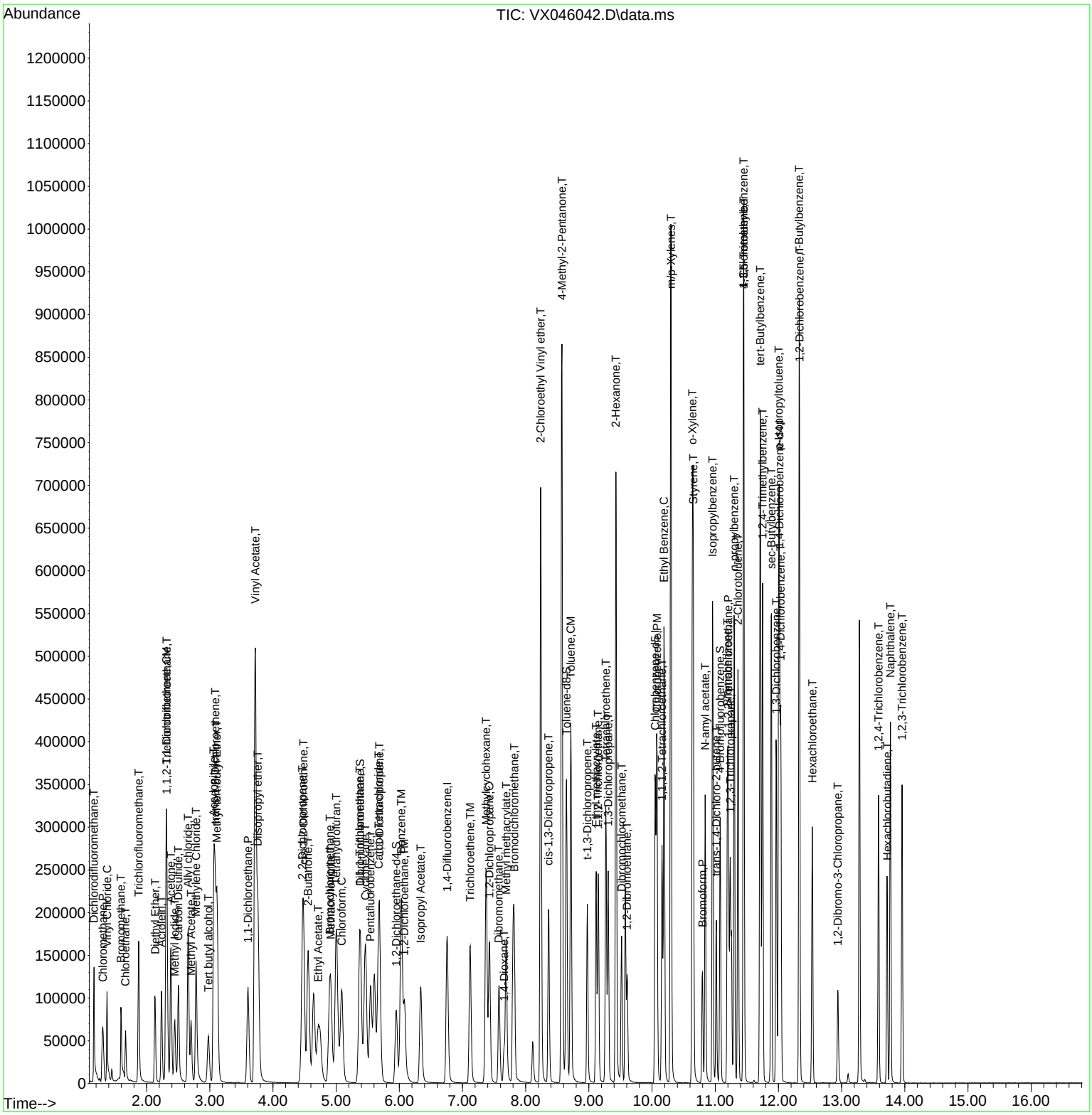
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

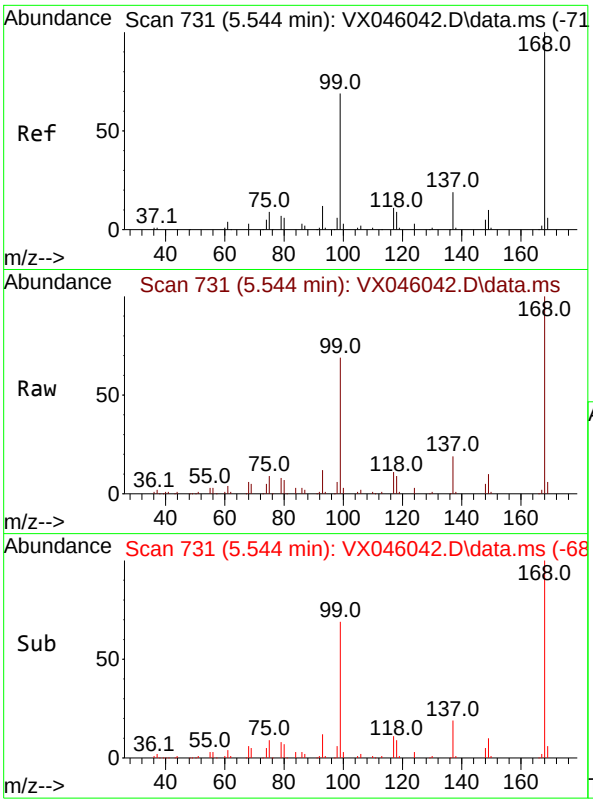
Quant Time: May 06 06:09:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

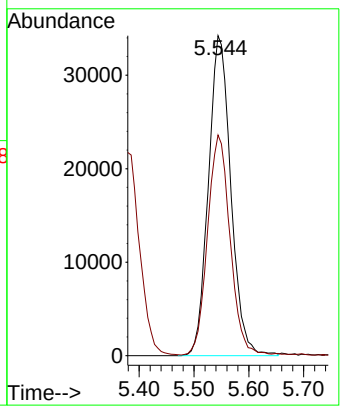




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion:168 Resp: 9707

Ion	Ratio	Lower	Upper
168	100		
99	68.6	54.9	82.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

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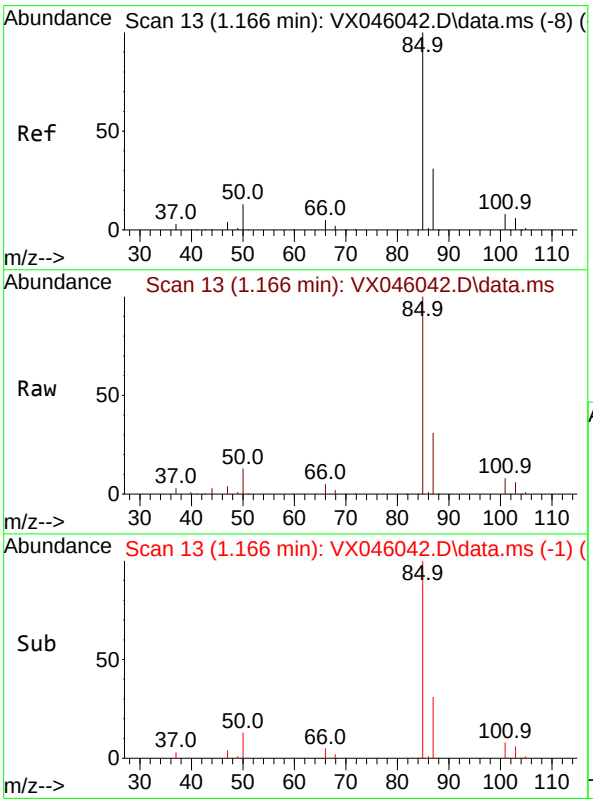
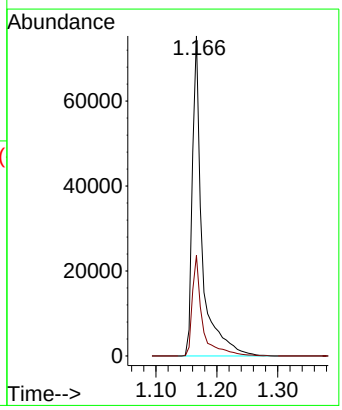
Supervised By :Mahesh Dadoda 05/06/2025

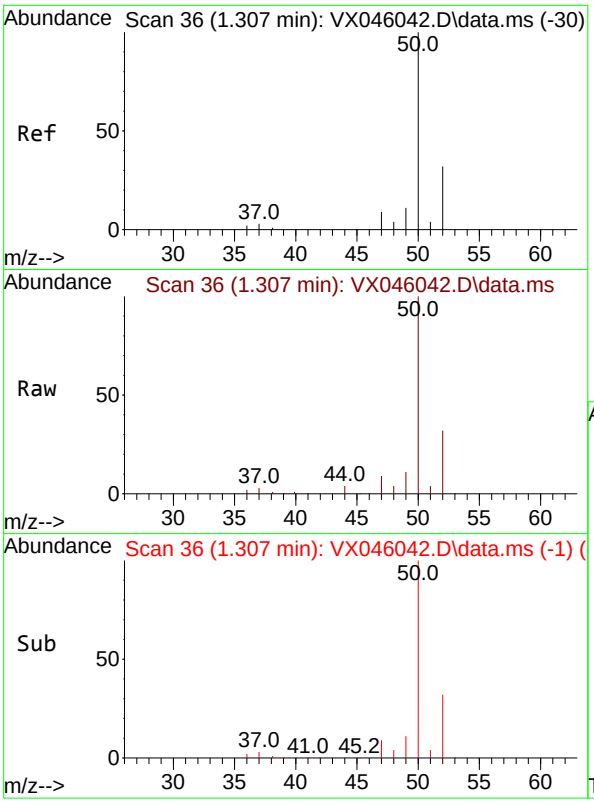


#2
Dichlorodifluoromethane
Concen: 39.120 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 85 Resp: 83826

Ion	Ratio	Lower	Upper
85	100		
87	31.4	15.7	47.1





#3
Chloromethane
Concen: 35.658 ug/l
RT: 1.307 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

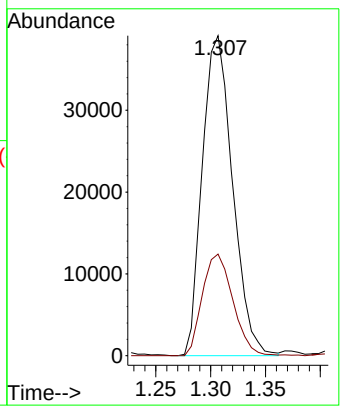
Tgt Ion: 50 Resp: 7523

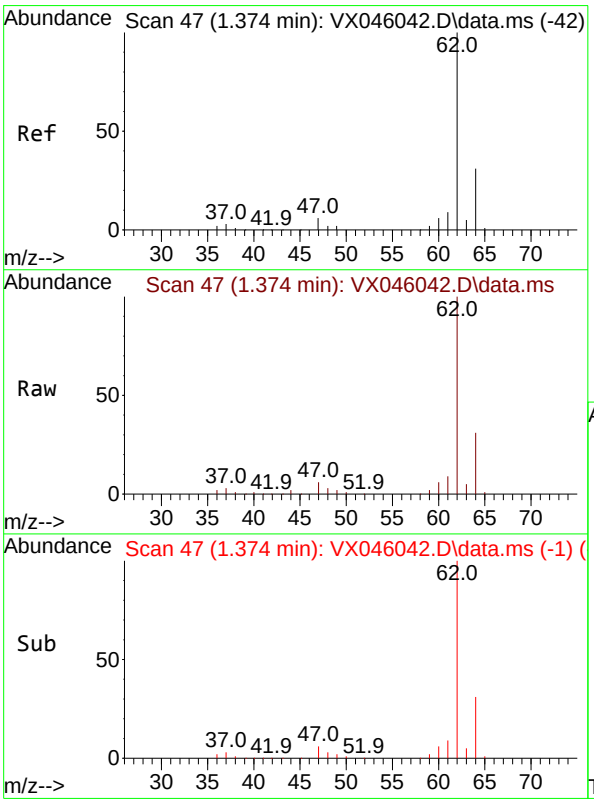
Ion	Ratio	Lower	Upper
50	100		
52	31.8	25.4	38.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

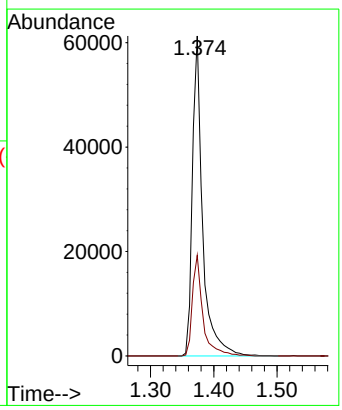


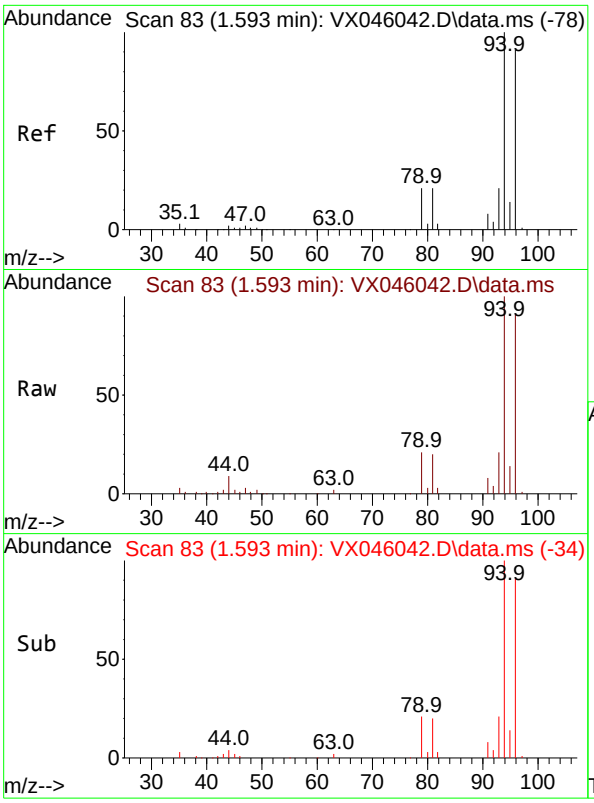


#4
Vinyl Chloride
Concen: 37.273 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 62 Resp: 68901

Ion	Ratio	Lower	Upper
62	100		
64	31.5	25.2	37.8

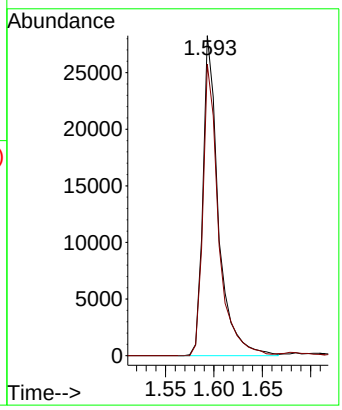




#5
Bromomethane
Concen: 33.765 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 94 Resp: 3164

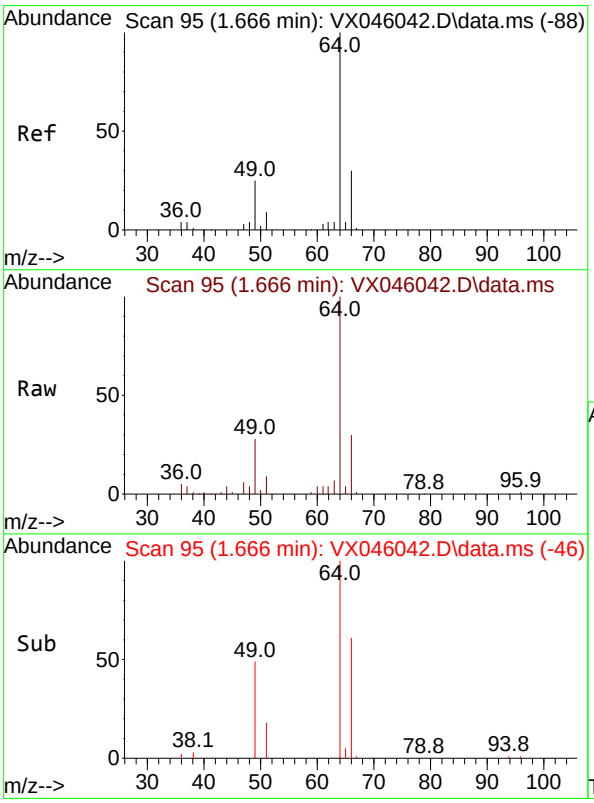
Ion	Ratio	Lower	Upper
94	100		
96	91.0	72.8	109.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

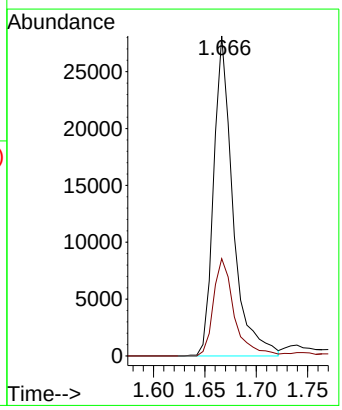
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

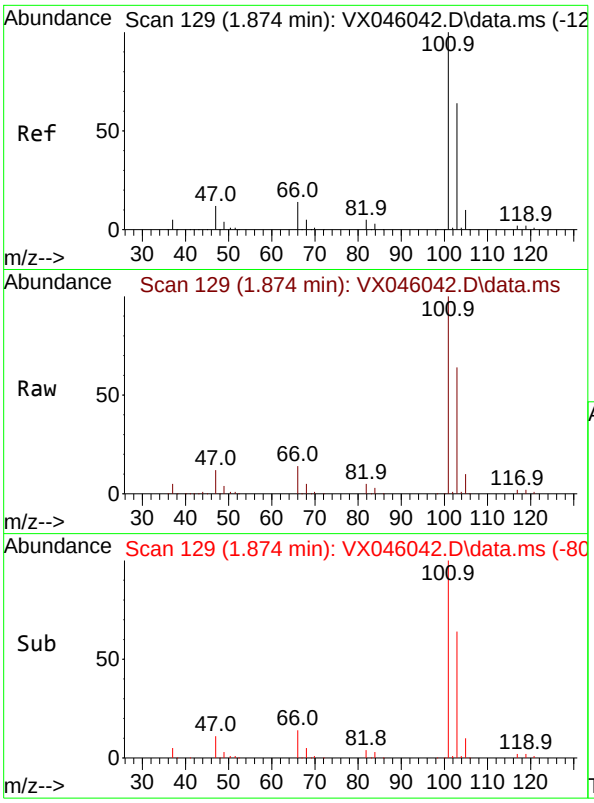


#6
Chloroethane
Concen: 38.558 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 64 Resp: 36722

Ion	Ratio	Lower	Upper
64	100		
66	30.4	24.3	36.5

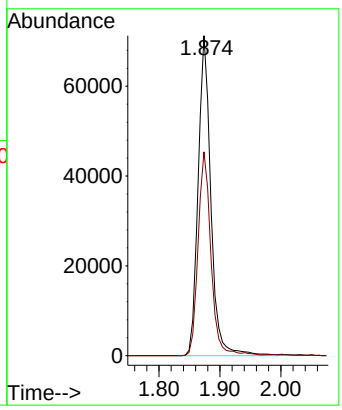




#7
Trichlorofluoromethane
Concen: 36.824 ug/l
RT: 1.874 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion:101 Resp: 10369

Ion	Ratio	Lower	Upper
101	100		
103	63.7	51.0	76.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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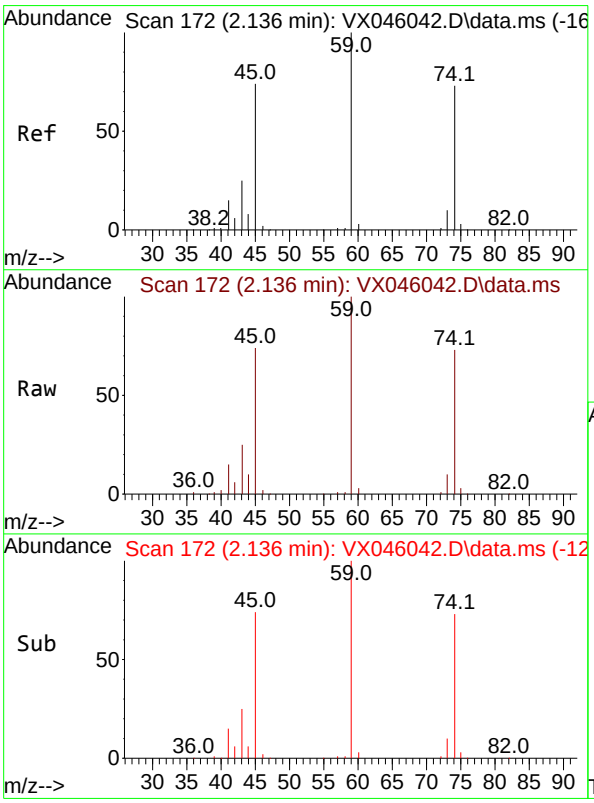
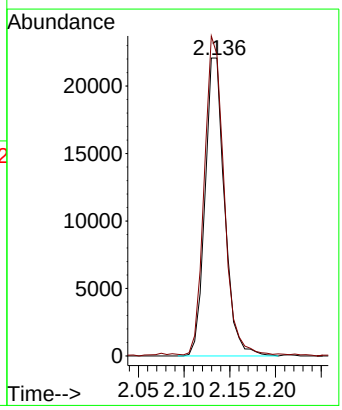
Supervised By :Mahesh Dadoda 05/06/2025

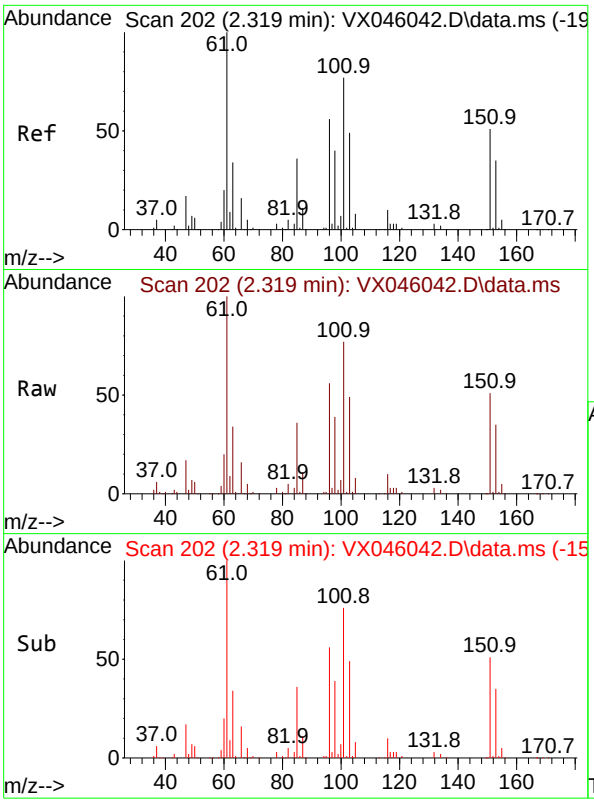


#8
Diethyl Ether
Concen: 35.350 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 74 Resp: 32724

Ion	Ratio	Lower	Upper
74	100		
45	109.9	54.9	164.8

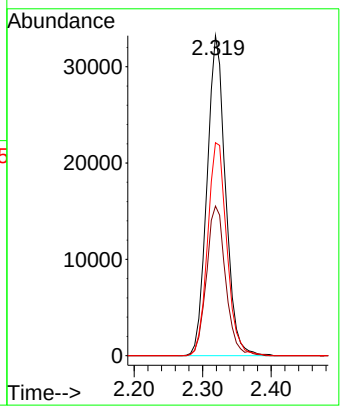




#9
1,1,2-Trichlorotrifluoroethane
Concen: 36.997 ug/l
RT: 2.319 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion:101 Resp: 6225

Ion	Ratio	Lower	Upper
101	100		
85	48.3	38.6	58.0
151	69.0	55.2	82.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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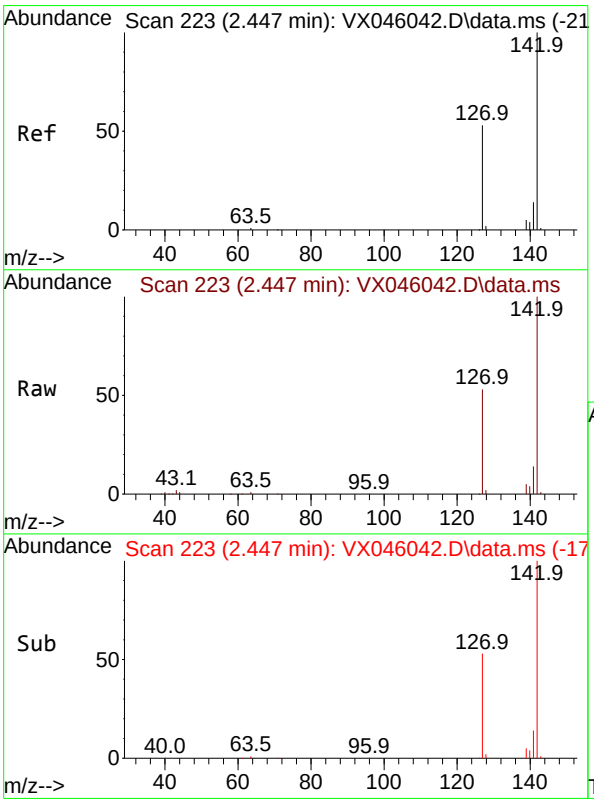
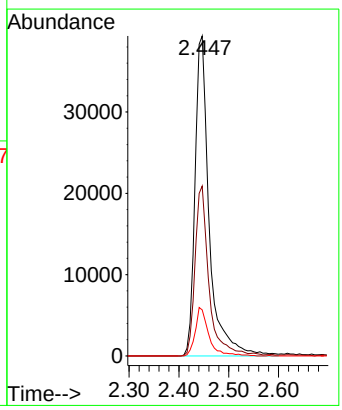
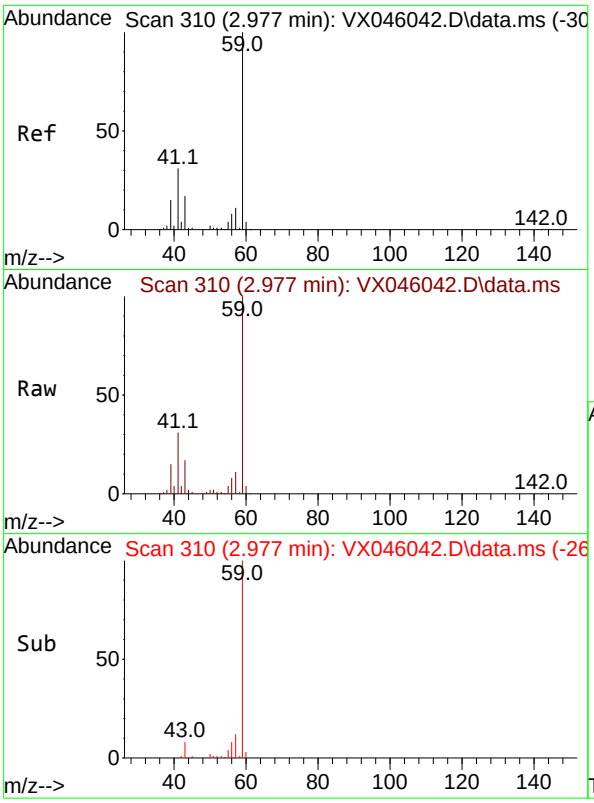


#10
Methyl Iodide
Concen: 39.622 ug/l
RT: 2.447 min Scan# 223
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion:142 Resp: 78277

Ion	Ratio	Lower	Upper
142	100		
127	52.1	41.7	62.5
141	14.4	11.5	17.3

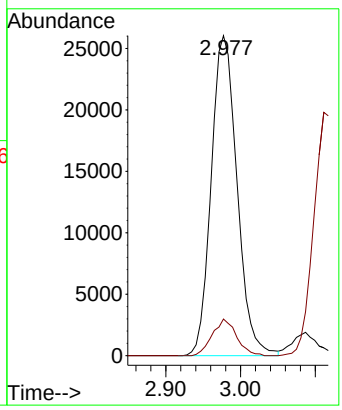




#11
Tert butyl alcohol
Concen: 181.745 ug/l
RT: 2.977 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 59 Resp: 6255

Ion	Ratio	Lower	Upper
59	100		
57	10.7	8.6	12.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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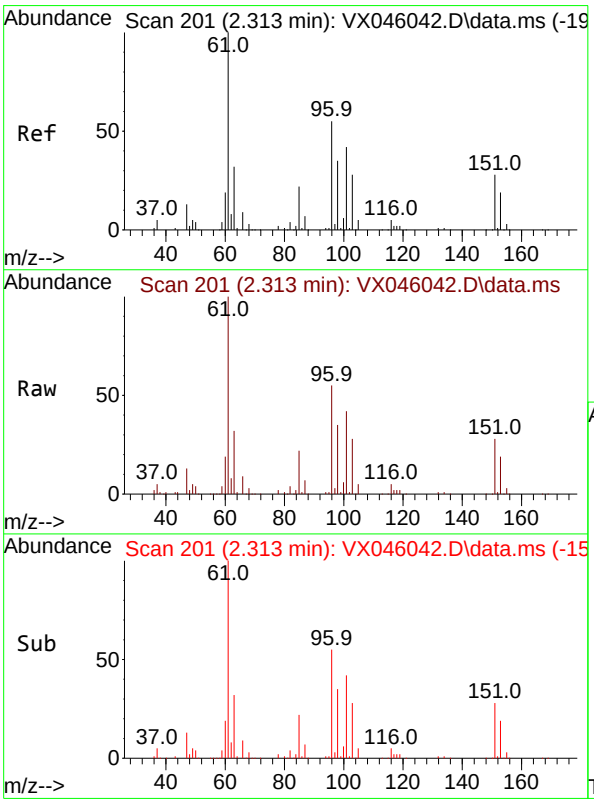
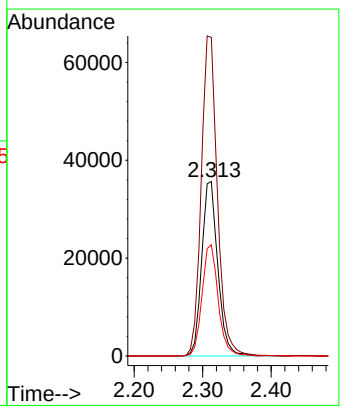
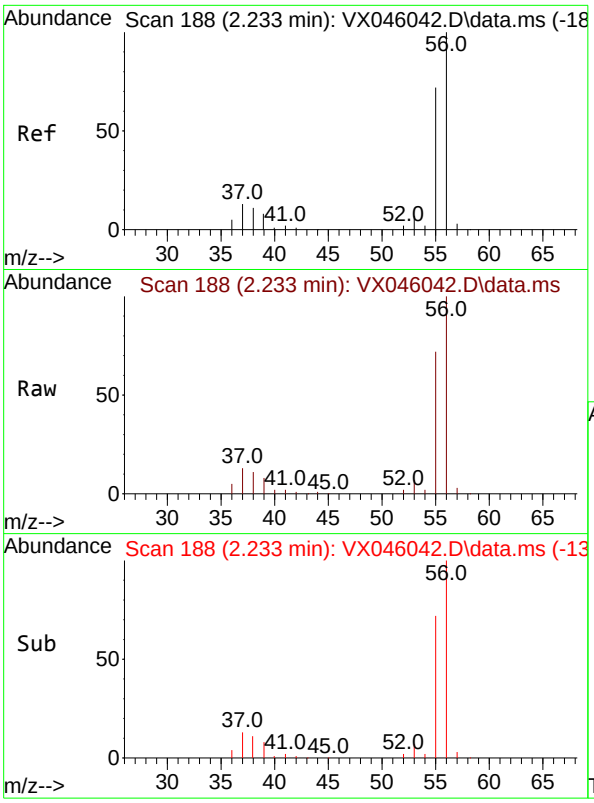


#12
1,1-Dichloroethene
Concen: 35.610 ug/l
RT: 2.313 min Scan# 201
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 96 Resp: 58334

Ion	Ratio	Lower	Upper
96	100		
61	182.7	146.2	219.2
98	63.8	51.0	76.6

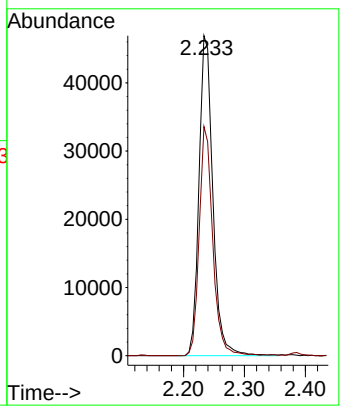




#13
Acrolein
Concen: 184.907 ug/l
RT: 2.233 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 56 Resp: 7392

Ion	Ratio	Lower	Upper
56	100		
55	70.3	56.2	84.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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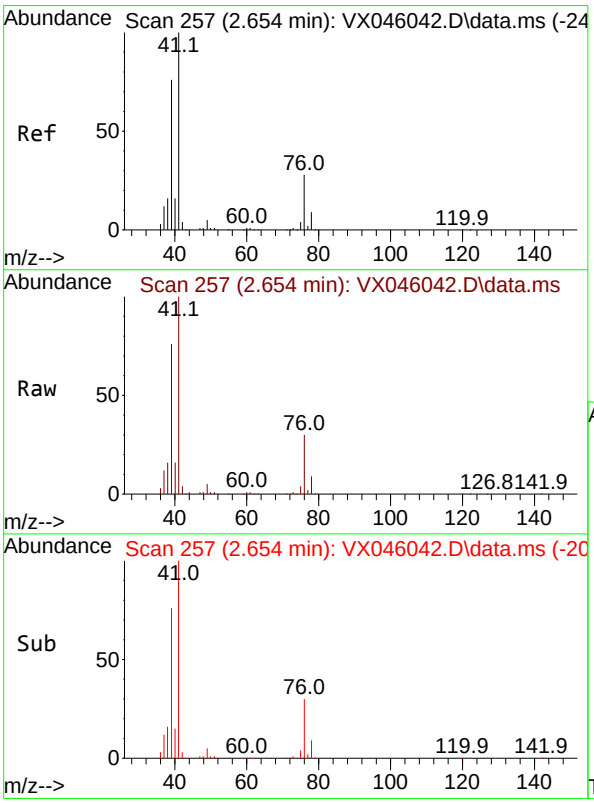
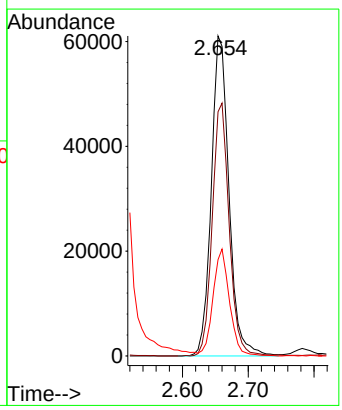
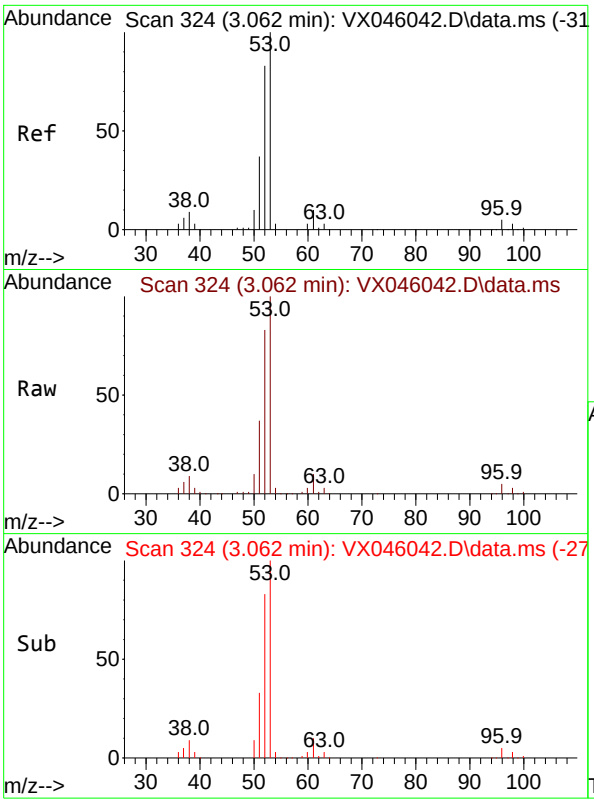


#14
Allyl chloride
Concen: 36.971 ug/l
RT: 2.654 min Scan# 257
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 41 Resp: 114445

Ion	Ratio	Lower	Upper
41	100		
39	75.7	60.6	90.8
76	31.1	24.9	37.3

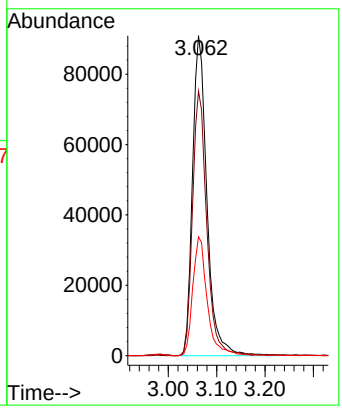




#15
Acrylonitrile
Concen: 182.874 ug/l
RT: 3.062 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 53 Resp: 18830

Ion	Ratio	Lower	Upper
53	100		
52	81.6	65.3	97.9
51	37.3	29.8	44.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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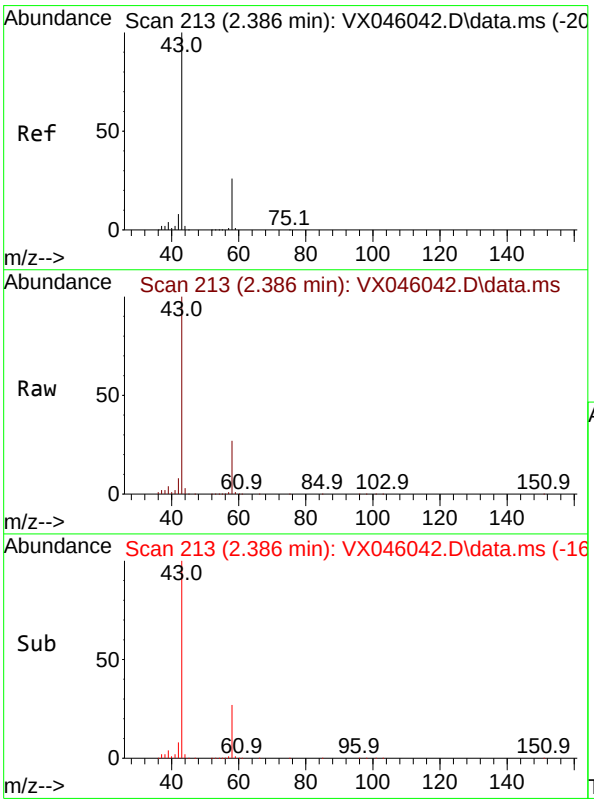
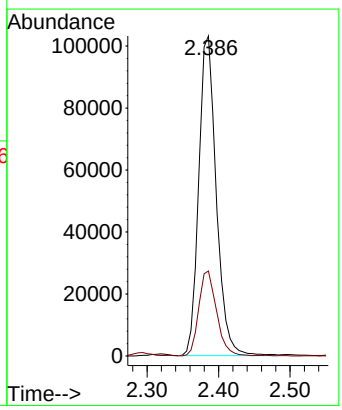
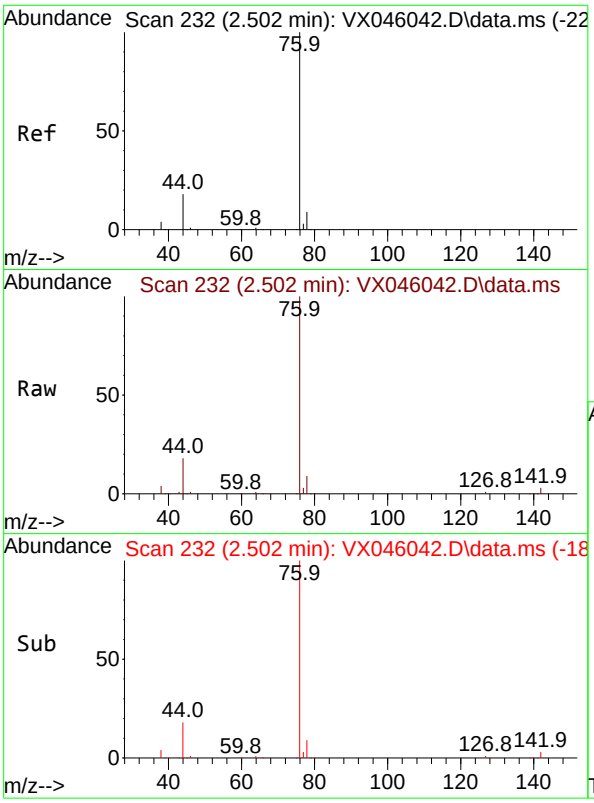


#16
Acetone
Concen: 177.910 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 43 Resp: 175777

Ion	Ratio	Lower	Upper
43	100		
58	26.5	21.2	31.8





#17
Carbon Disulfide
Concen: 37.223 ug/l
RT: 2.502 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 76 Resp: 14128

Ion	Ratio	Lower	Upper
76	100		
78	8.7	7.0	10.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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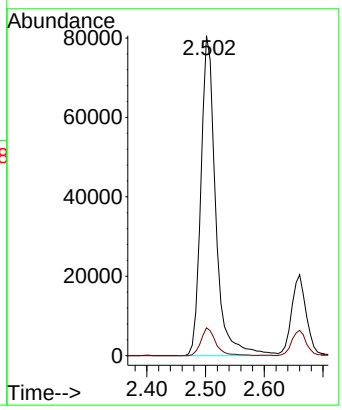
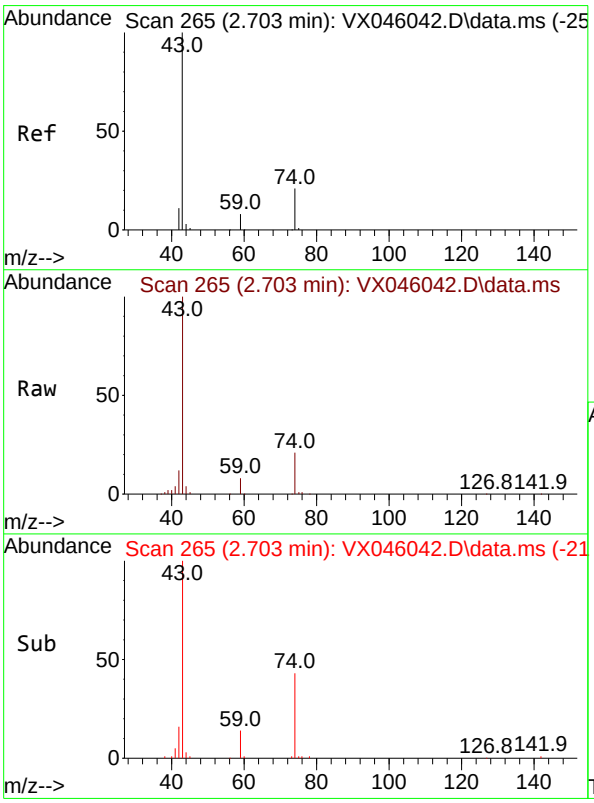
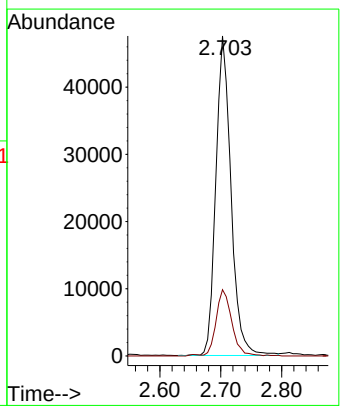


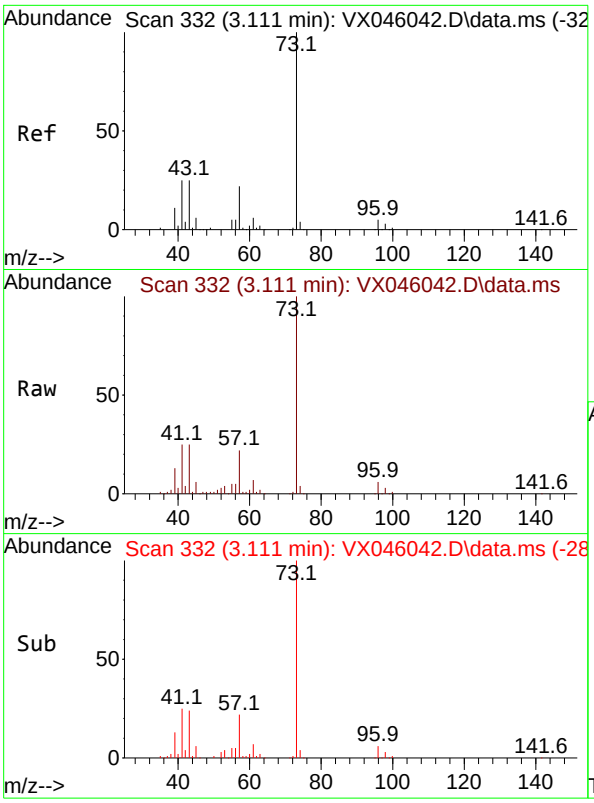


#18
Methyl Acetate
Concen: 34.915 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 43 Resp: 82347

Ion	Ratio	Lower	Upper
43	100		
74	20.9	16.7	25.1

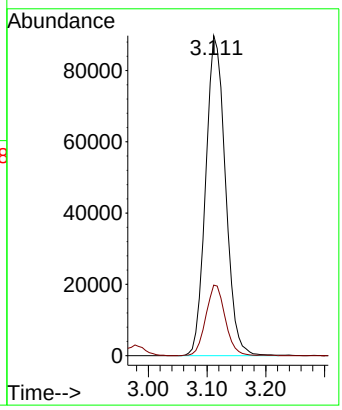




#19
Methyl tert-butyl Ether
Concen: 36.695 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 73 Resp: 20966

Ion	Ratio	Lower	Upper
73	100		
57	22.1	17.7	26.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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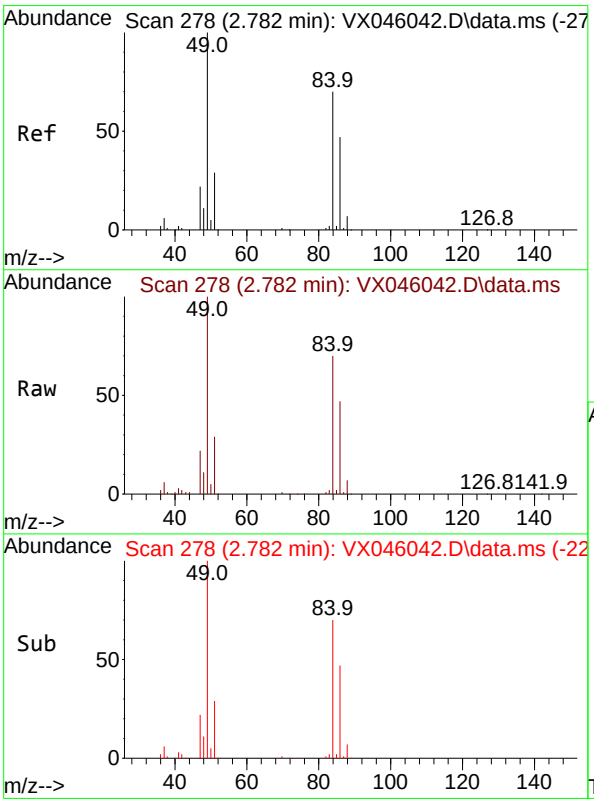
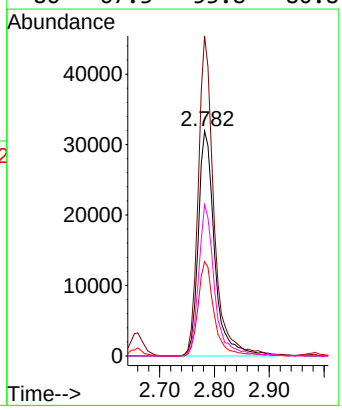
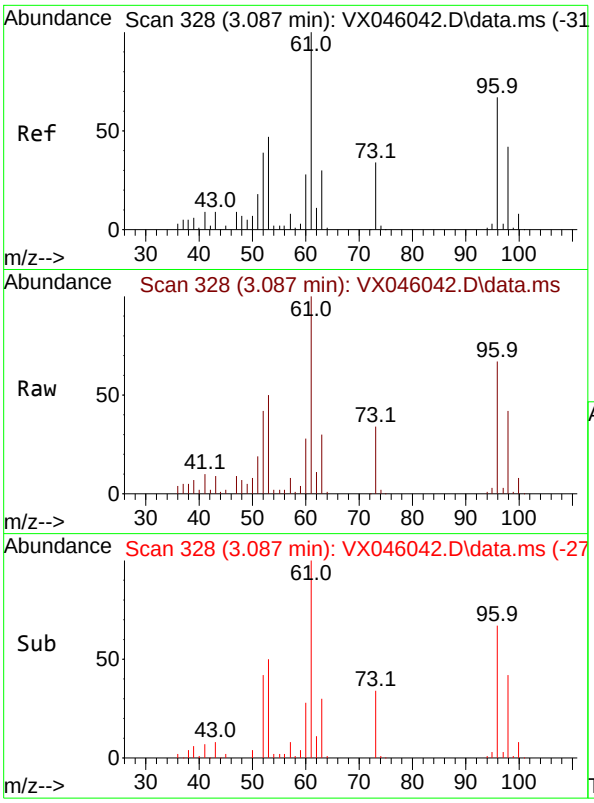


#20
Methylene Chloride
Concen: 33.182 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 84 Resp: 66412

Ion	Ratio	Lower	Upper
84	100		
49	142.4	113.9	170.9
51	41.9	33.5	50.3
86	67.3	53.8	80.8

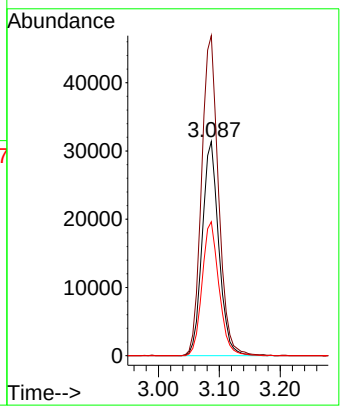




#21
trans-1,2-Dichloroethene
Concen: 35.421 ug/l
RT: 3.087 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 96 Resp: 5923

Ion	Ratio	Lower	Upper
96	100		
61	149.4	119.5	179.3
98	62.5	50.0	75.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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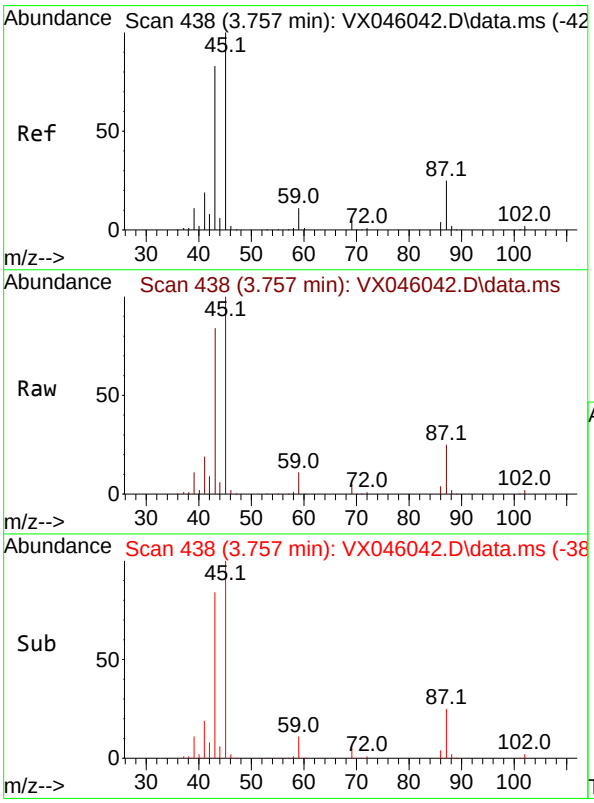
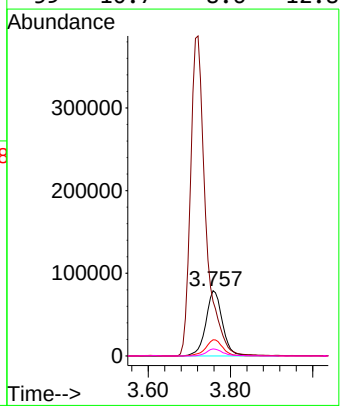
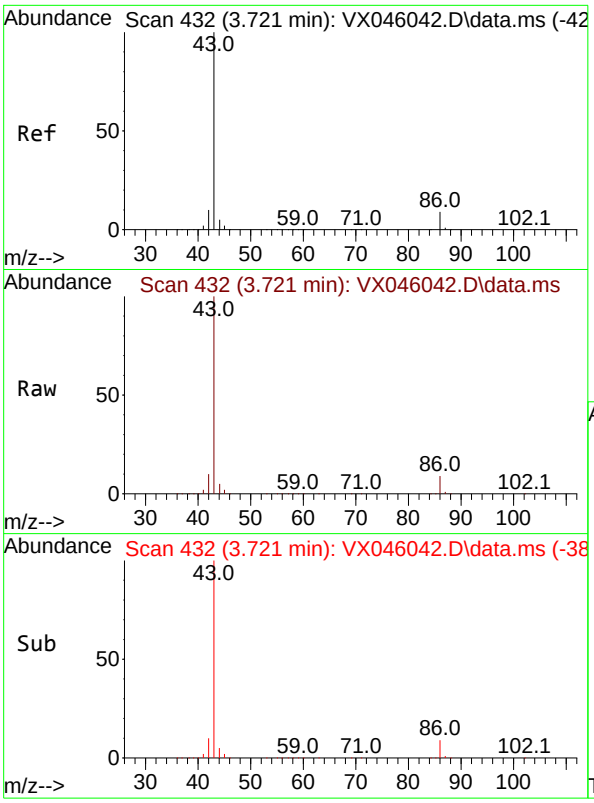


#22
Diisopropyl ether
Concen: 38.241 ug/l
RT: 3.757 min Scan# 438
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 45 Resp: 221172

Ion	Ratio	Lower	Upper
45	100		
43	83.3	66.6	100.0
87	24.7	19.8	29.6
59	10.7	8.6	12.8

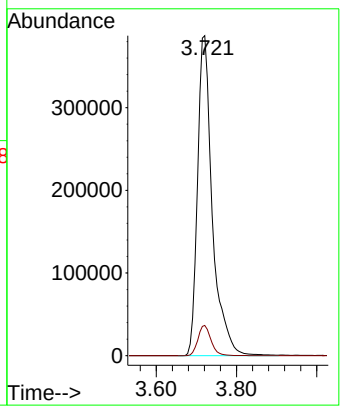




#23
Vinyl Acetate
Concen: 194.528 ug/l
RT: 3.721 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 43 Resp: 99423

Ion	Ratio	Lower	Upper
43	100		
86	9.4	7.5	11.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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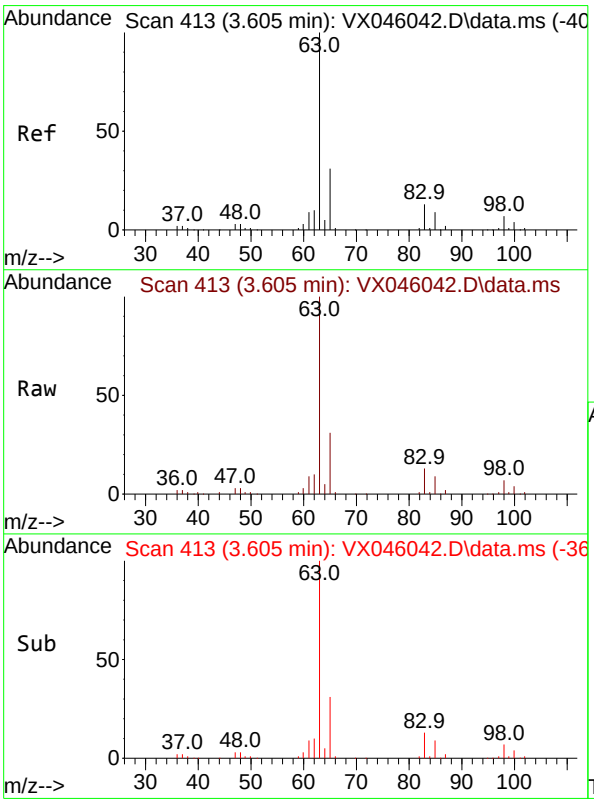
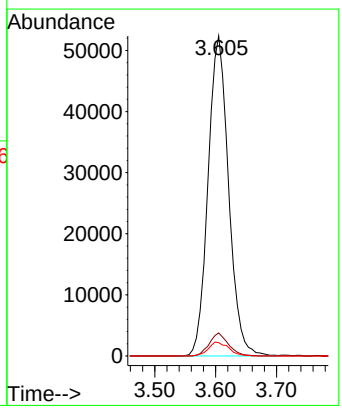
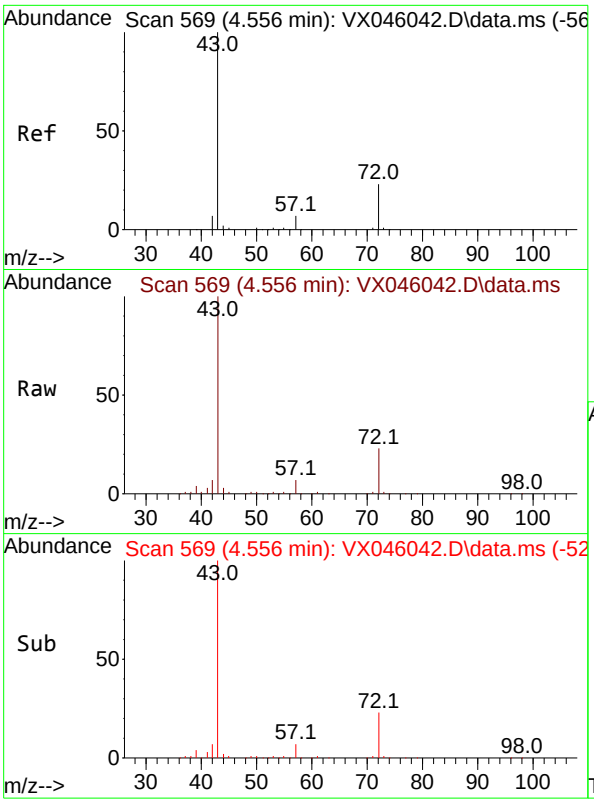


#24
1,1-Dichloroethane
Concen: 36.067 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 63 Resp: 122601

Ion	Ratio	Lower	Upper
63	100		
98	7.2	3.6	10.8
100	4.2	2.1	6.3





#25
2-Butanone
Concen: 188.783 ug/l
RT: 4.556 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 43 Resp: 26922

Ion	Ratio	Lower	Upper
43	100		
72	23.0	18.4	27.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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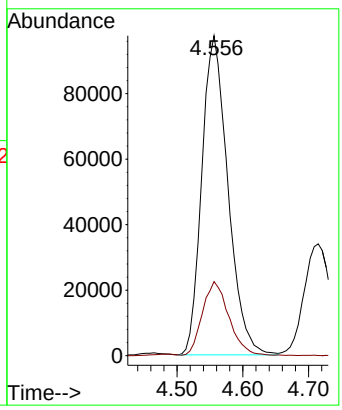
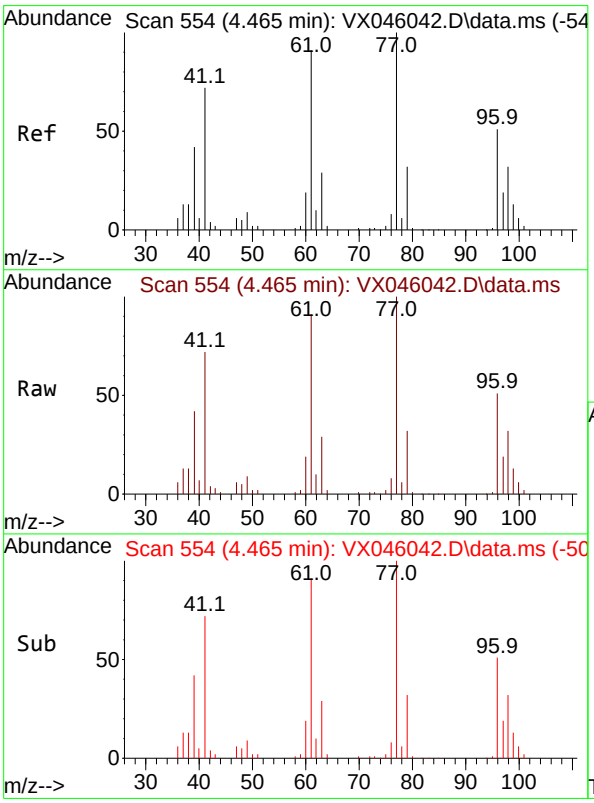
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

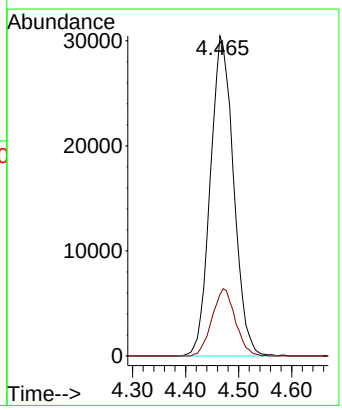


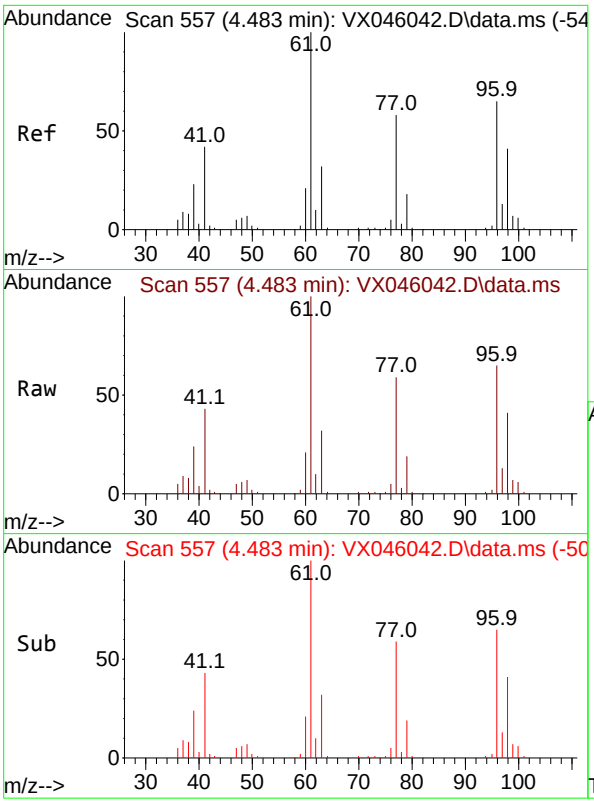


#26
2,2-Dichloropropane
Concen: 36.059 ug/l
RT: 4.465 min Scan# 554
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 77 Resp: 92857

Ion	Ratio	Lower	Upper
77	100		
97	21.0	10.5	31.5

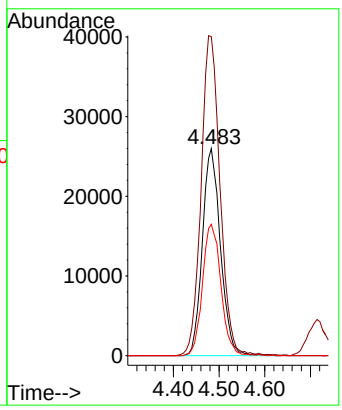




#27
cis-1,2-Dichloroethene
Concen: 35.466 ug/l
RT: 4.483 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 96 Resp: 7151

Ion	Ratio	Lower	Upper
96	100		
61	161.4	0.0	322.8
98	64.5	0.0	129.0



Instrument :
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ClientSampleId :
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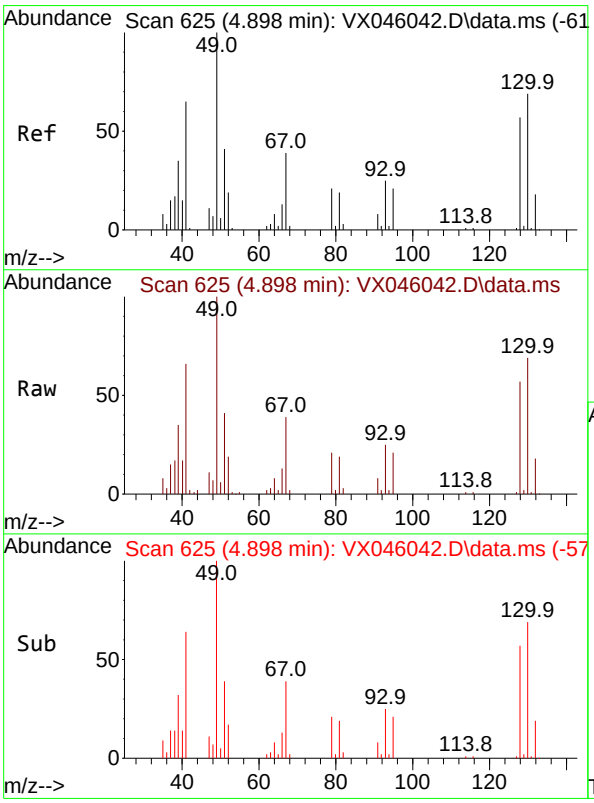
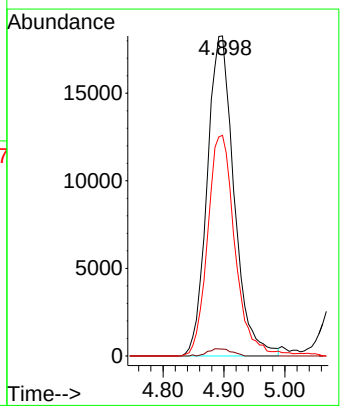
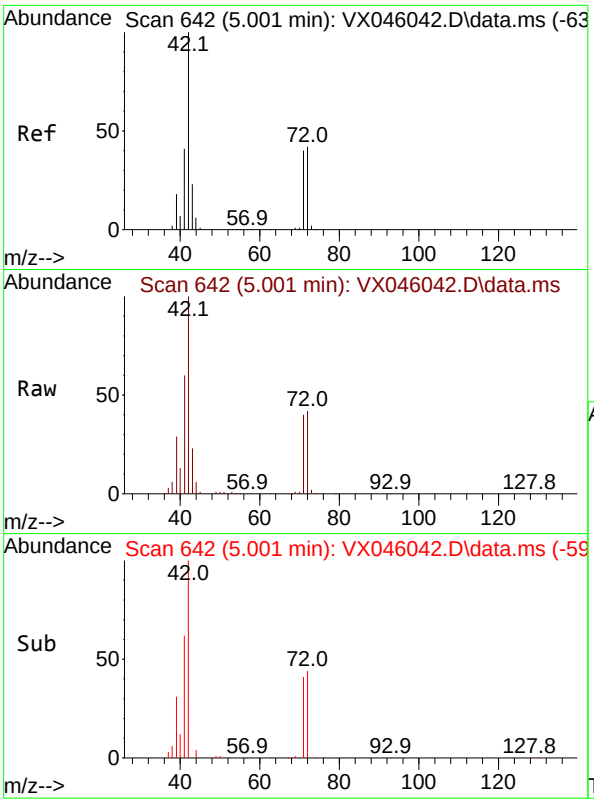


#28
Bromochloromethane
Concen: 31.031 ug/l
RT: 4.898 min Scan# 625
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 49 Resp: 56091

Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	4.0
130	70.2	56.2	84.2

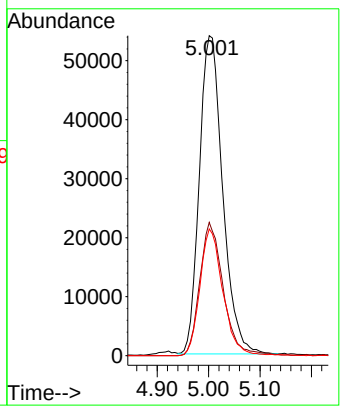




#29
Tetrahydrofuran
Concen: 183.679 ug/l
RT: 5.001 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 42 Resp: 17012

Ion	Ratio	Lower	Upper
42	100		
72	42.1	33.7	50.5
71	39.3	31.4	47.2



Instrument :
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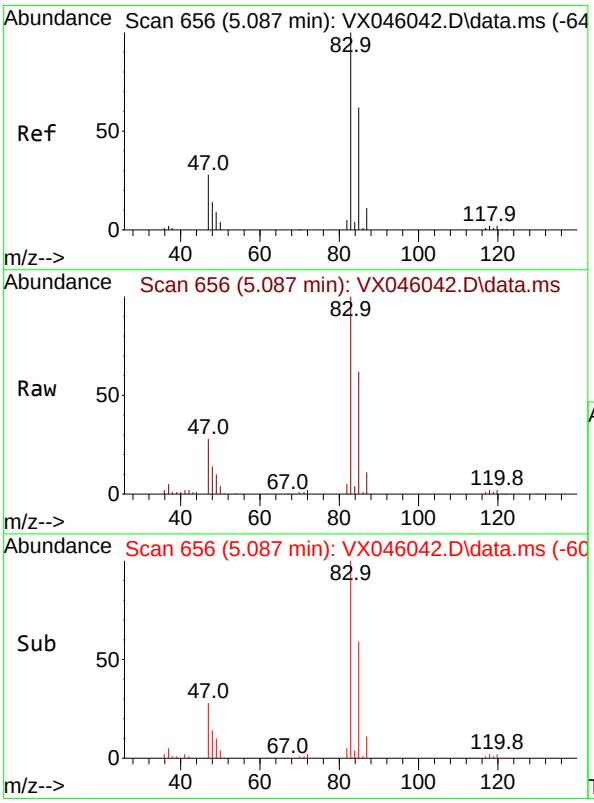
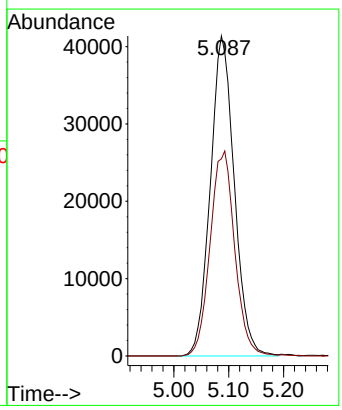
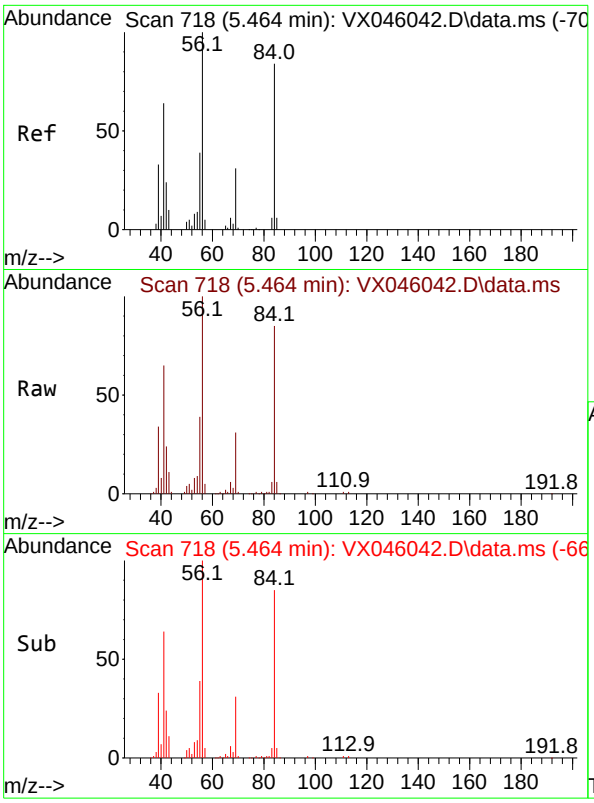


#30
Chloroform
Concen: 35.626 ug/l
RT: 5.087 min Scan# 656
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 83 Resp: 125850

Ion	Ratio	Lower	Upper
83	100		
85	61.6	49.3	73.9

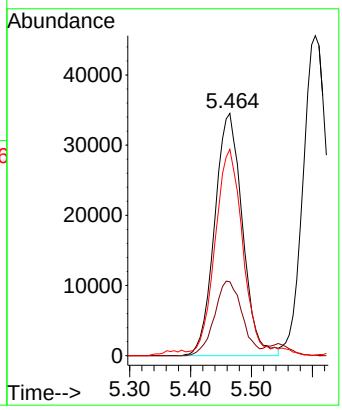




#31
Cyclohexane
Concen: 38.205 ug/l
RT: 5.464 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 56 Resp: 10945

Ion	Ratio	Lower	Upper
56	100		
69	30.5	24.4	36.6
84	83.6	66.9	100.3



Instrument :
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ClientSampleId :
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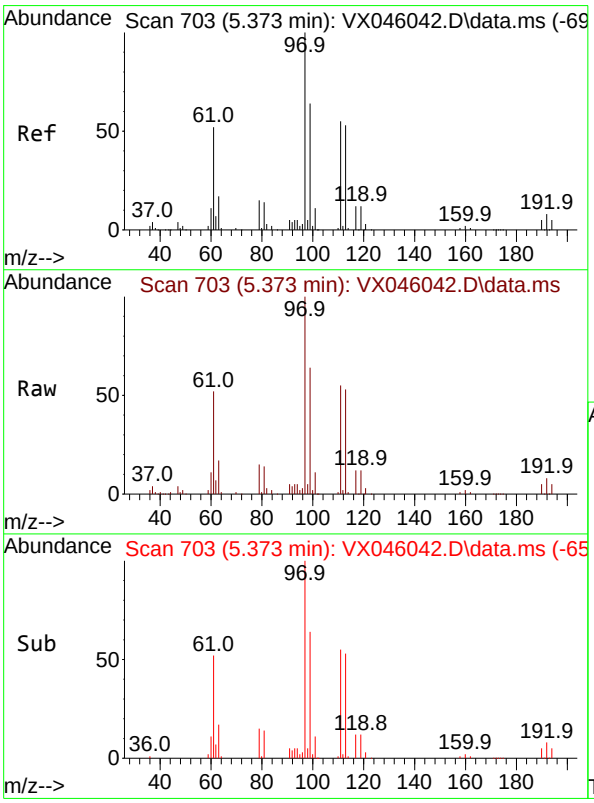
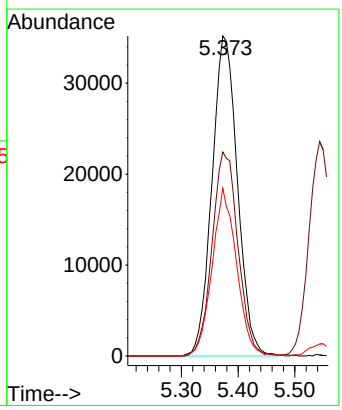
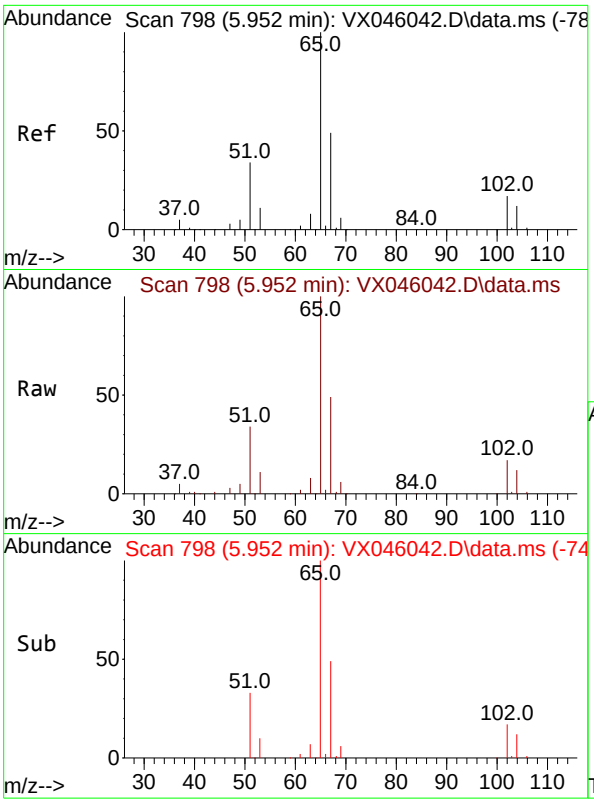


#32
1,1,1-Trichloroethane
Concen: 36.034 ug/l
RT: 5.373 min Scan# 703
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 97 Resp: 109781

Ion	Ratio	Lower	Upper
97	100		
99	64.7	51.8	77.6
61	50.1	40.1	60.1

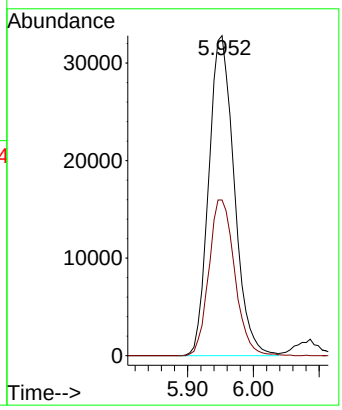




#33
1,2-Dichloroethane-d4
Concen: 30.601 ug/l
RT: 5.952 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 65 Resp: 8837

Ion	Ratio	Lower	Upper
65	100		
67	49.5	0.0	99.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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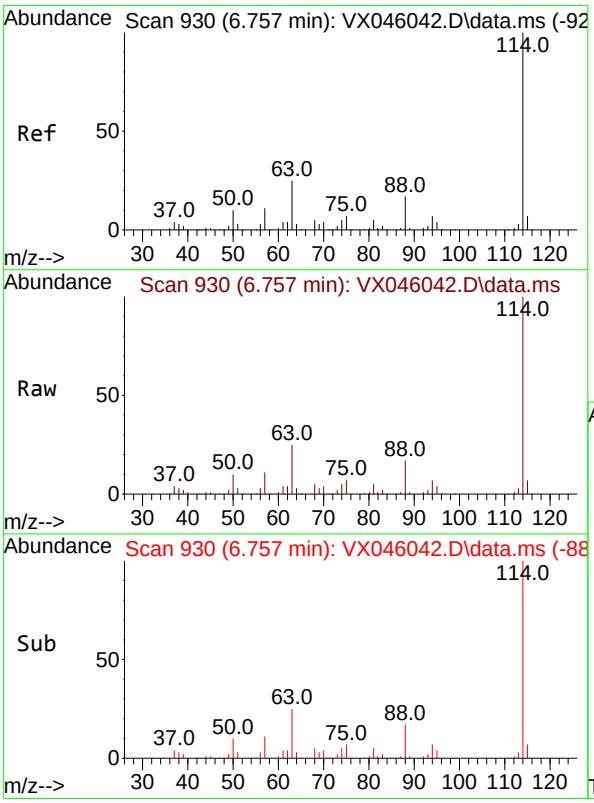
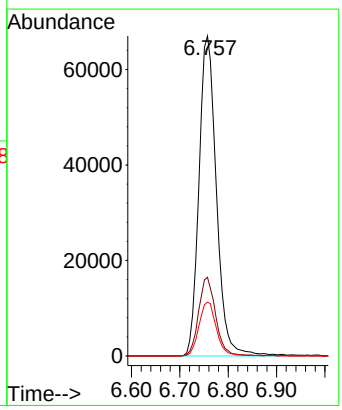
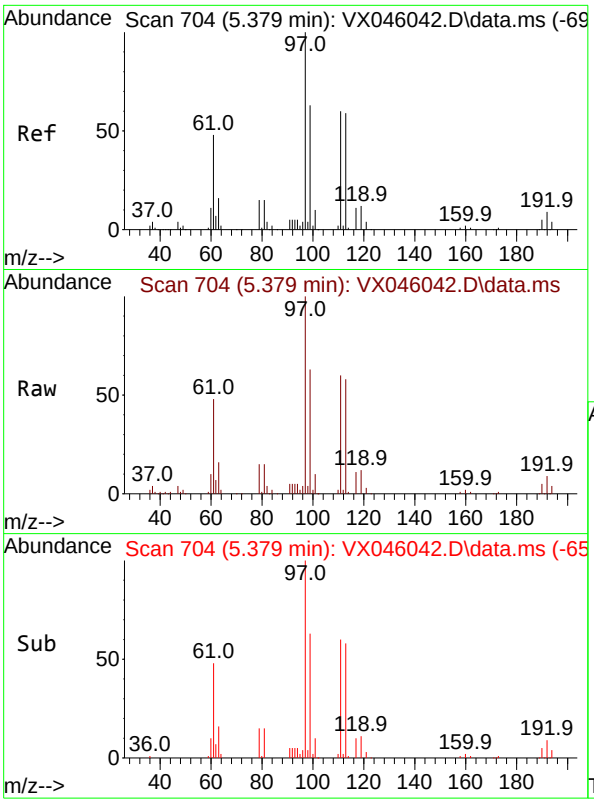


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion:114 Resp: 167947

Ion	Ratio	Lower	Upper
114	100		
63	24.6	0.0	49.2
88	16.8	0.0	33.6

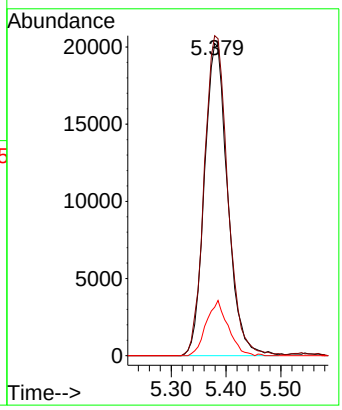




#35
Dibromofluoromethane
Concen: 31.633 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion:113 Resp: 5955

Ion	Ratio	Lower	Upper
113	100		
111	103.9	83.1	124.7
192	16.6	13.3	19.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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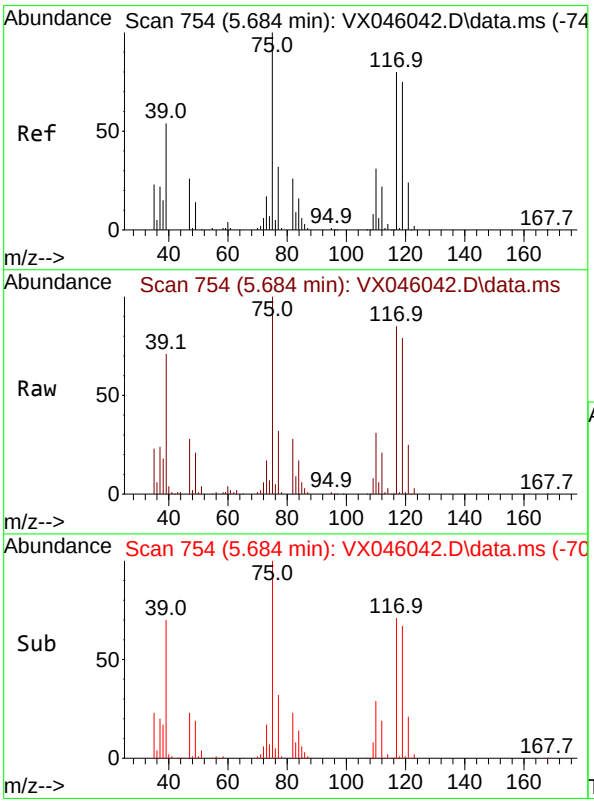
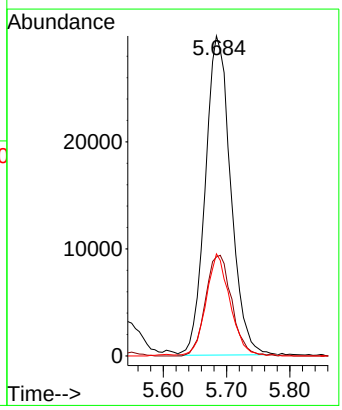
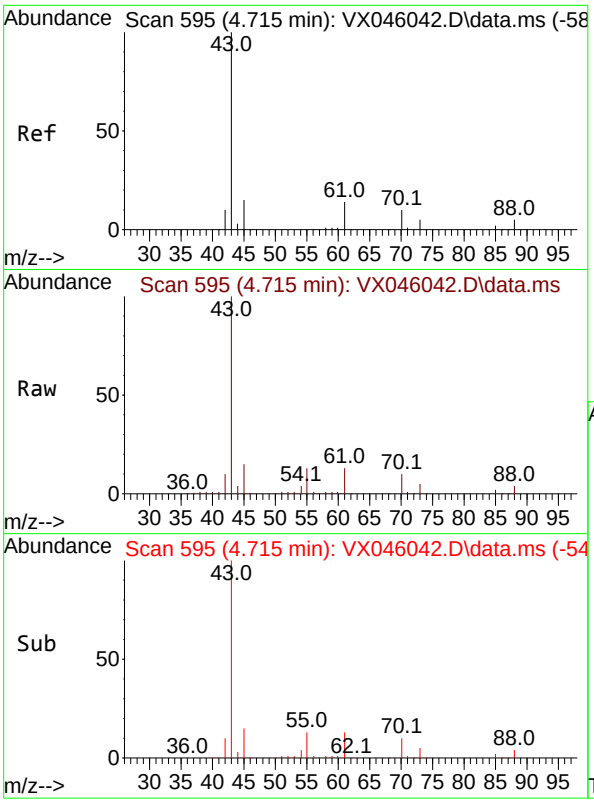


#36
1,1-Dichloropropene
Concen: 38.073 ug/l
RT: 5.684 min Scan# 754
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 75 Resp: 83215

Ion	Ratio	Lower	Upper
75	100		
110	32.6	16.3	48.9
77	30.4	24.3	36.5

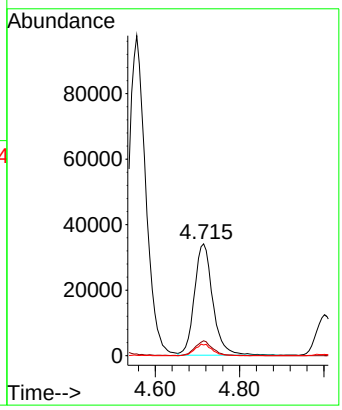




#37
Ethyl Acetate
Concen: 37.394 ug/l
RT: 4.715 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 43 Resp: 10253

Ion	Ratio	Lower	Upper
43	100		
61	12.9	10.3	15.5
70	9.9	7.9	11.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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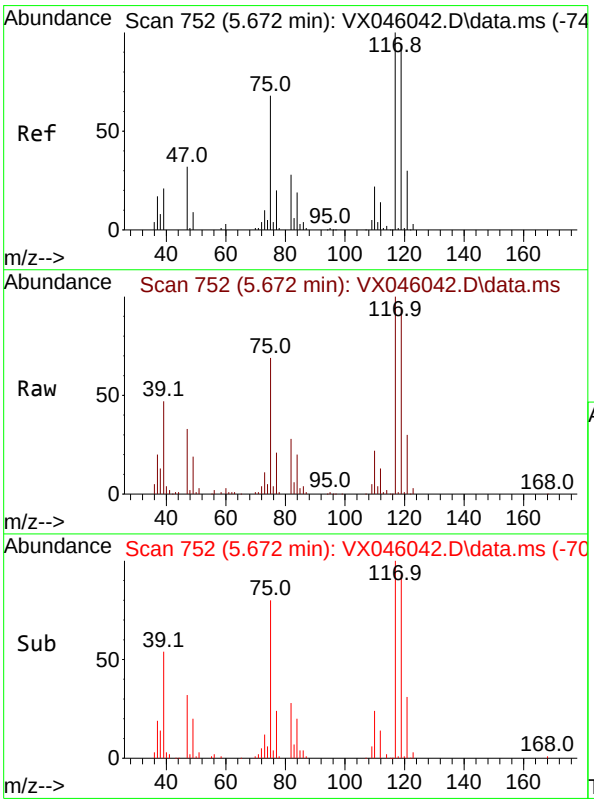
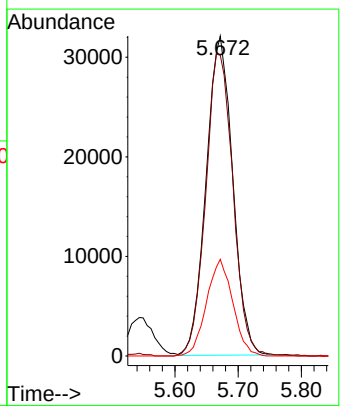
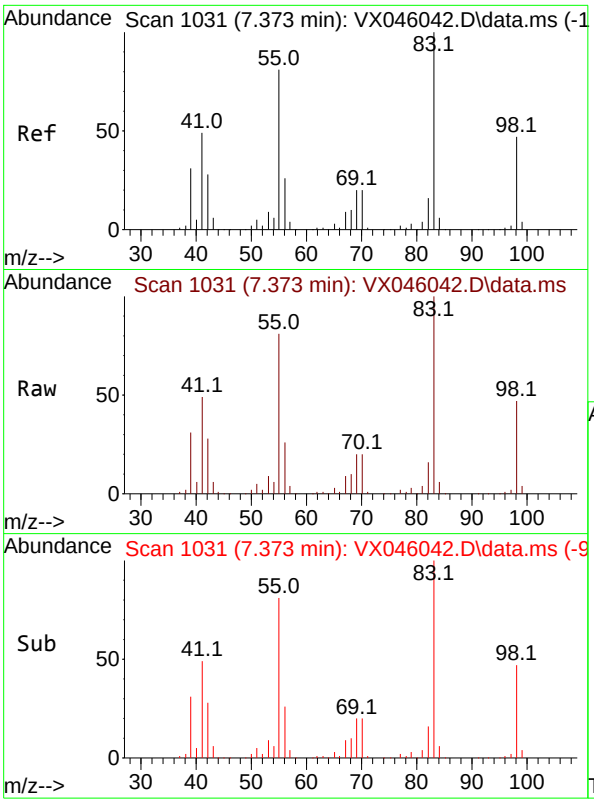


#38
Carbon Tetrachloride
Concen: 37.320 ug/l
RT: 5.672 min Scan# 752
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion:117 Resp: 93712

Ion	Ratio	Lower	Upper
117	100		
119	94.0	75.2	112.8
121	30.3	24.2	36.4

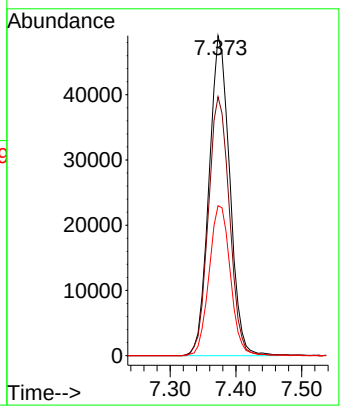




#39
Methylcyclohexane
Concen: 39.307 ug/l
RT: 7.373 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 83 Resp: 10765

Ion	Ratio	Lower	Upper
83	100		
55	80.9	64.7	97.1
98	46.8	37.4	56.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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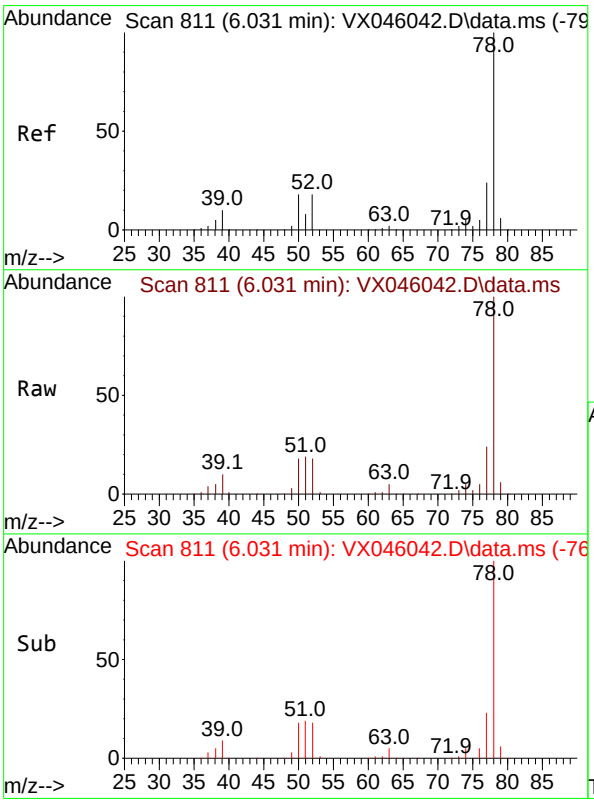
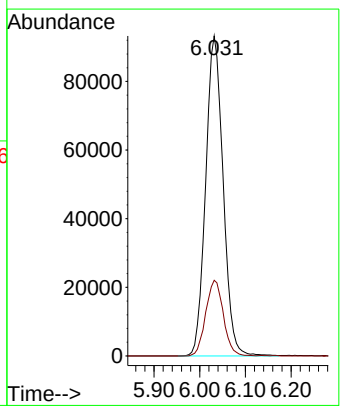
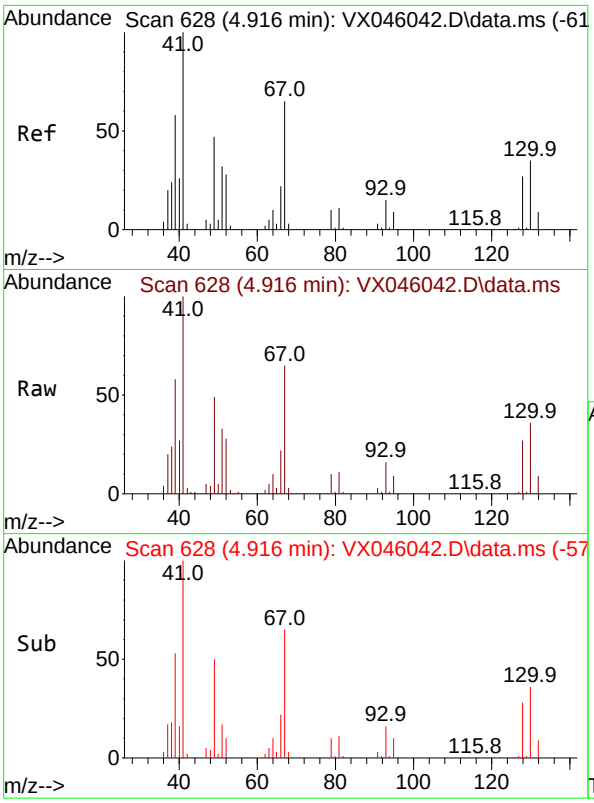


#40
Benzene
Concen: 36.530 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 78 Resp: 247476

Ion	Ratio	Lower	Upper
78	100		
77	23.7	19.0	28.4

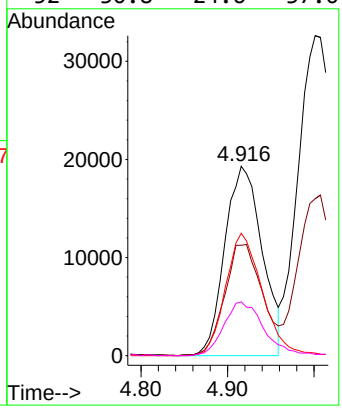




#41
Methacrylonitrile
Concen: 38.123 ug/l
RT: 4.916 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 41 Resp: 5808

Ion	Ratio	Lower	Upper
41	100		
39	59.0	47.2	70.8
67	63.4	50.7	76.1
52	30.8	24.6	37.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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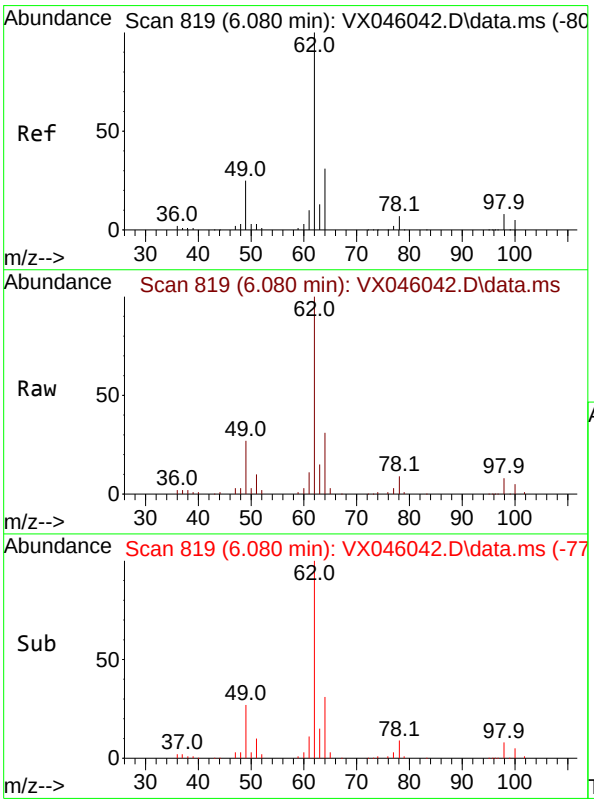
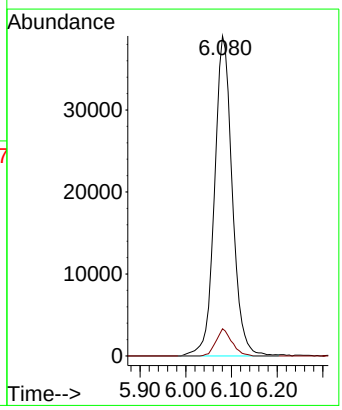
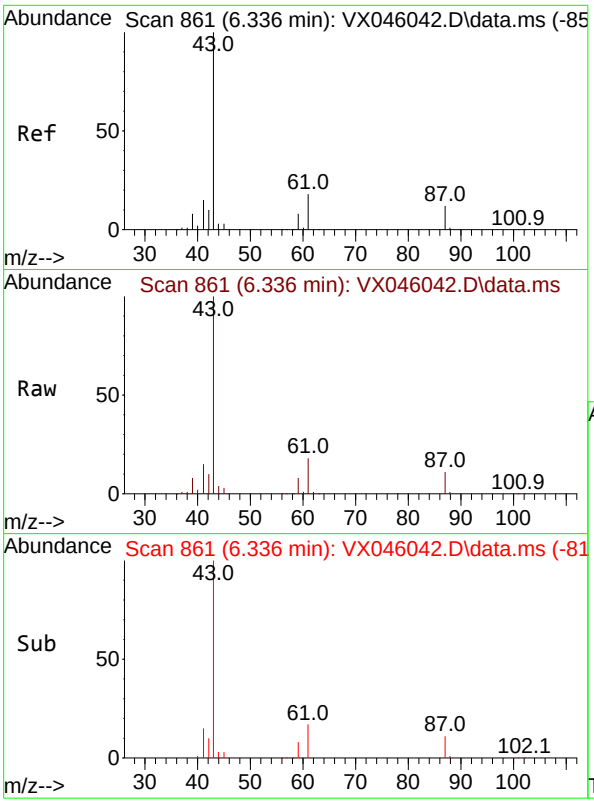


#42
1,2-Dichloroethane
Concen: 37.605 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 62 Resp: 105332

Ion	Ratio	Lower	Upper
62	100		
98	7.6	0.0	15.2

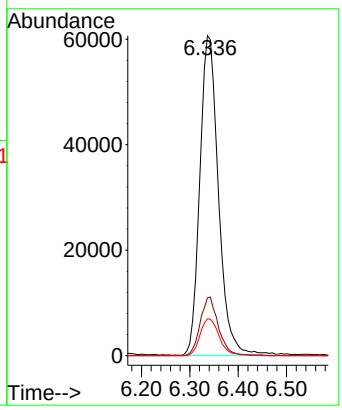




#43
Isopropyl Acetate
Concen: 38.598 ug/l
RT: 6.336 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 43 Resp: 16178

Ion	Ratio	Lower	Upper
43	100		
61	17.9	14.3	21.5
87	11.9	9.5	14.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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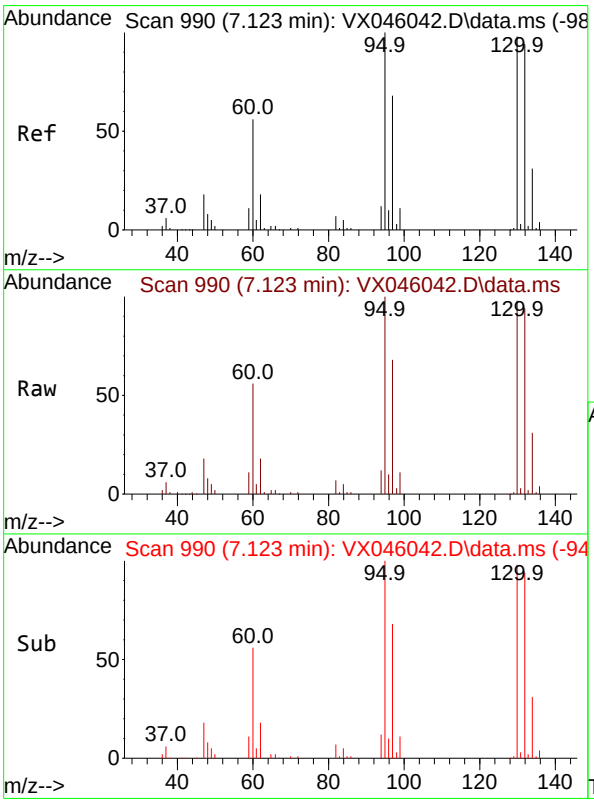
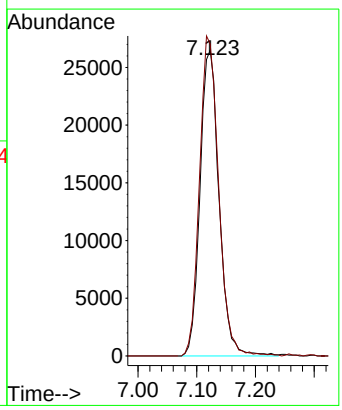
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

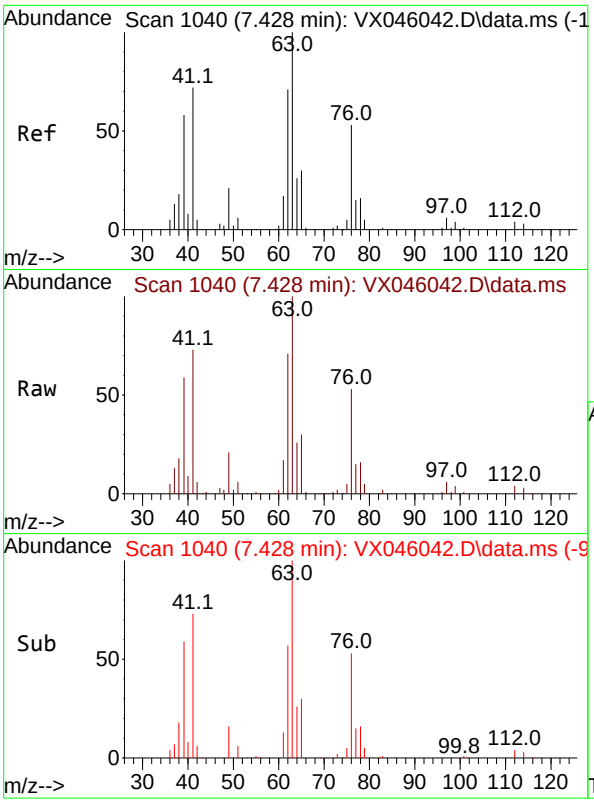


#44
Trichloroethene
Concen: 37.230 ug/l
RT: 7.123 min Scan# 990
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion:130 Resp: 59623

Ion	Ratio	Lower	Upper
130	100		
95	102.1	0.0	204.2

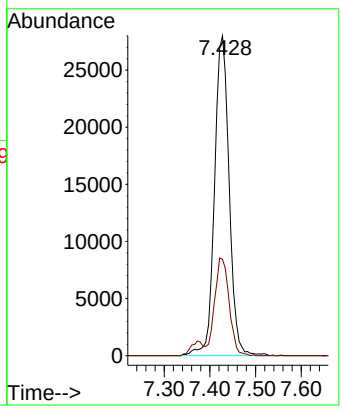




#45
1,2-Dichloropropane
Concen: 37.064 ug/l
RT: 7.428 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 63 Resp: 6238

Ion	Ratio	Lower	Upper
63	100		
65	30.1	24.1	36.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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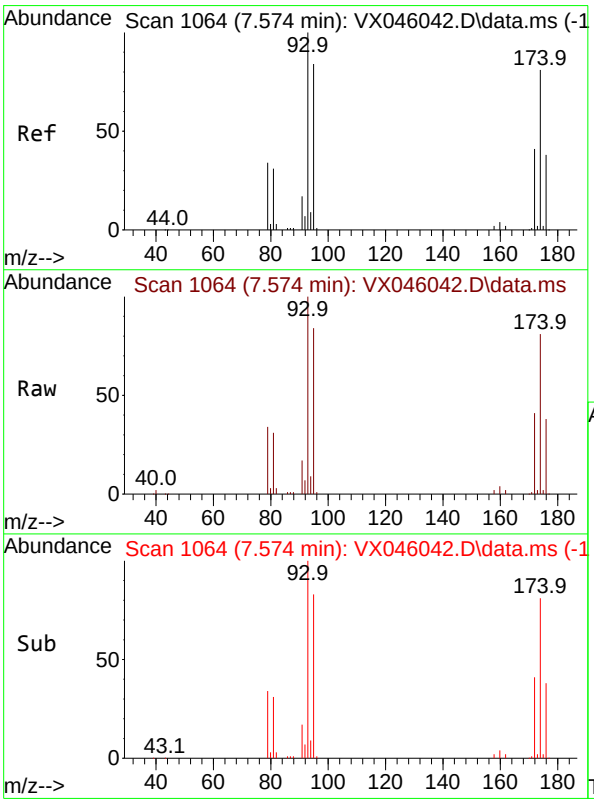
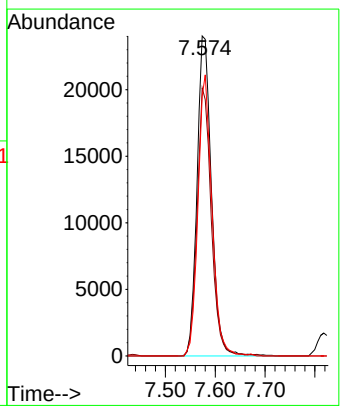
Supervised By :Mahesh Dadoda 05/06/2025

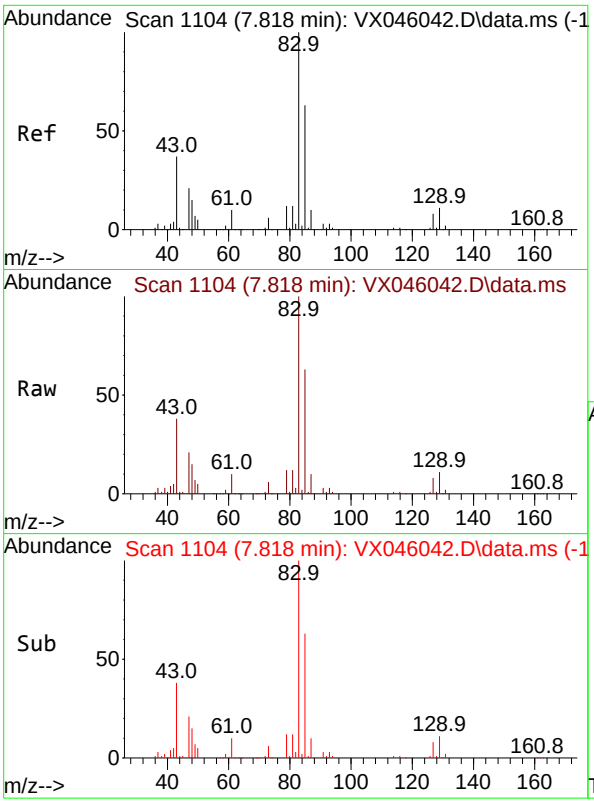


#46
Dibromomethane
Concen: 36.326 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 93 Resp: 48201

Ion	Ratio	Lower	Upper
93	100		
95	82.0	65.6	98.4
174	85.2	68.2	102.2

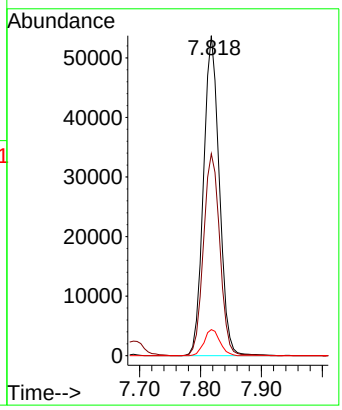




#47
Bromodichloromethane
Concen: 37.685 ug/l
RT: 7.818 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 83 Resp: 9691

Ion	Ratio	Lower	Upper
83	100		
85	63.1	50.5	75.7
127	8.1	6.5	9.7



Instrument :
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ClientSampleId :
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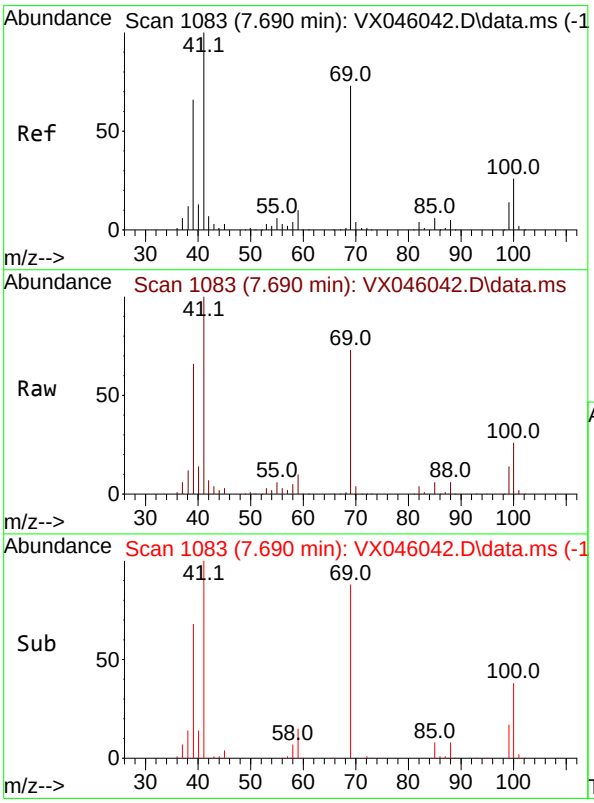
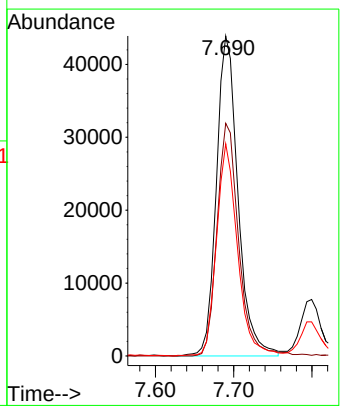
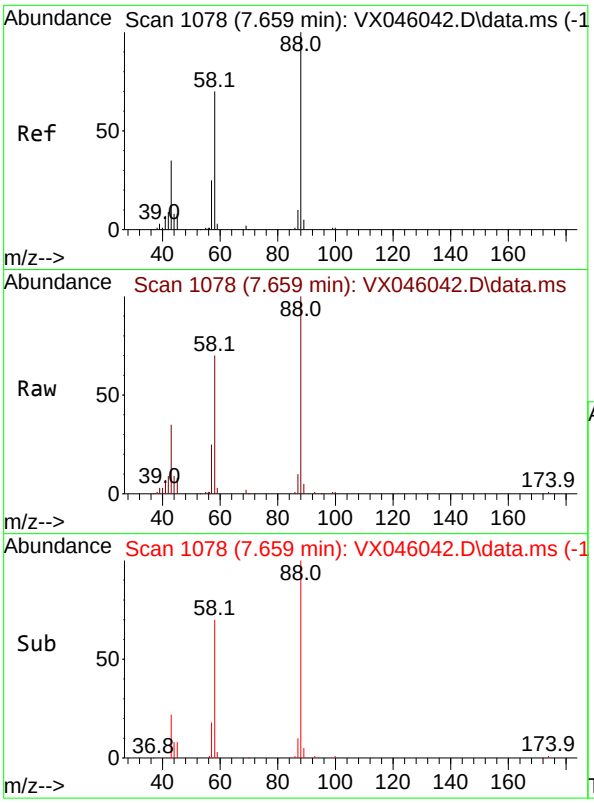


#48
Methyl methacrylate
Concen: 39.157 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 41 Resp: 84277

Ion	Ratio	Lower	Upper
41	100		
69	73.1	58.5	87.7
39	64.6	51.7	77.5

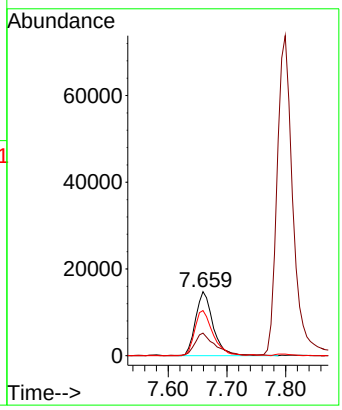




#49
1,4-Dioxane
Concen: 713.477 ug/l
RT: 7.659 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 88 Resp: 3052

Ion	Ratio	Lower	Upper
88	100		
43	41.8	33.4	50.2
58	73.3	58.6	88.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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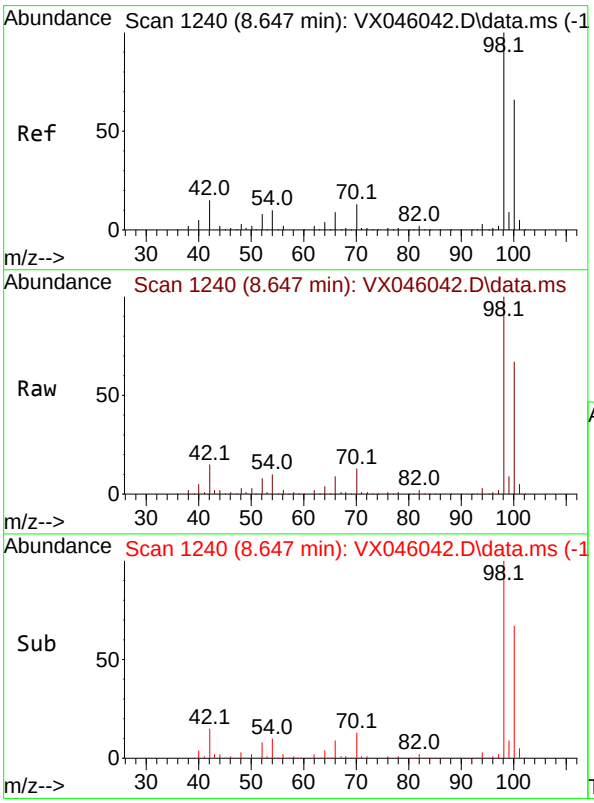
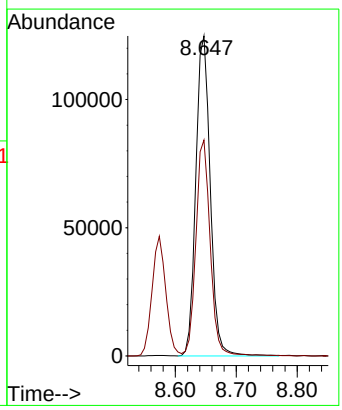
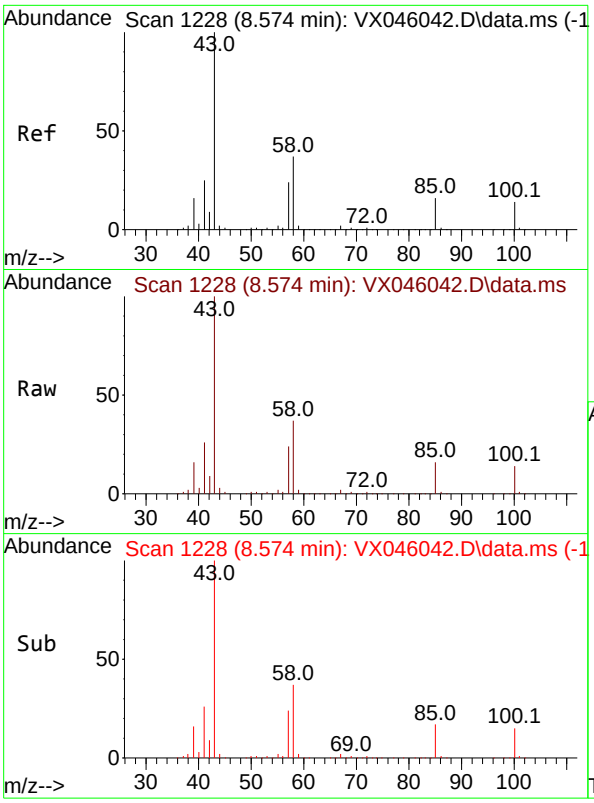


#50
Toluene-d8
Concen: 32.395 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 98 Resp: 205479

Ion	Ratio	Lower	Upper
98	100		
100	66.9	53.5	80.3

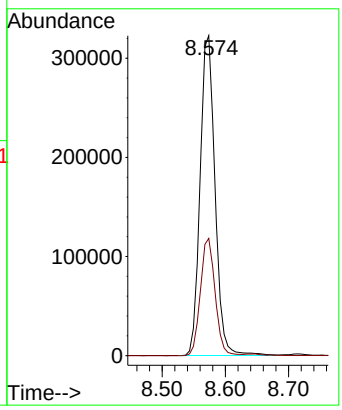




#51
4-Methyl-2-Pentanone
Concen: 193.653 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 43 Resp: 53238

Ion	Ratio	Lower	Upper
43	100		
58	36.1	28.9	43.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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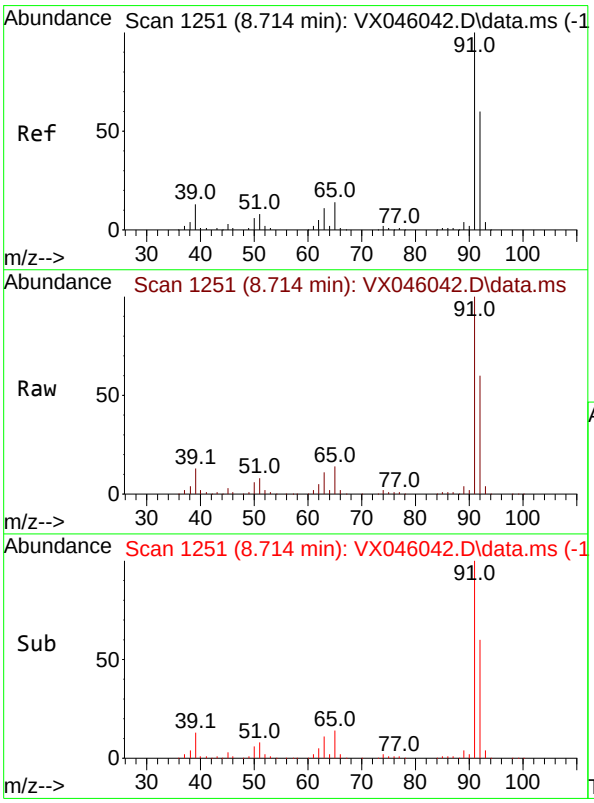
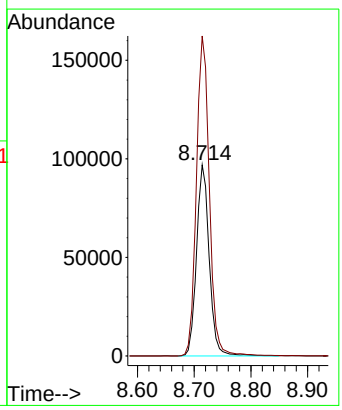
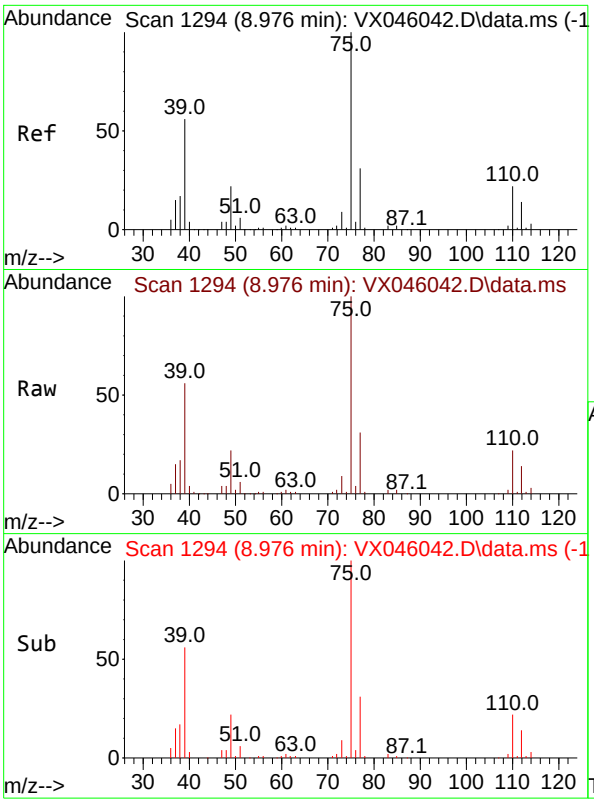


#52
Toluene
Concen: 37.530 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 92 Resp: 150757

Ion	Ratio	Lower	Upper
92	100		
91	170.8	136.6	205.0

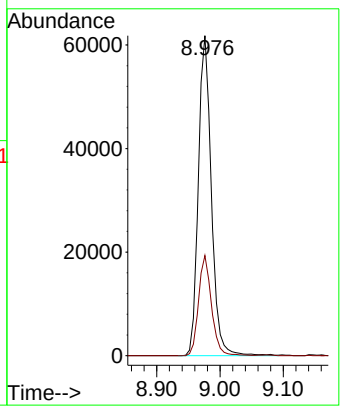




#53
t-1,3-Dichloropropene
Concen: 41.056 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 75 Resp: 8865

Ion	Ratio	Lower	Upper
75	100		
77	31.3	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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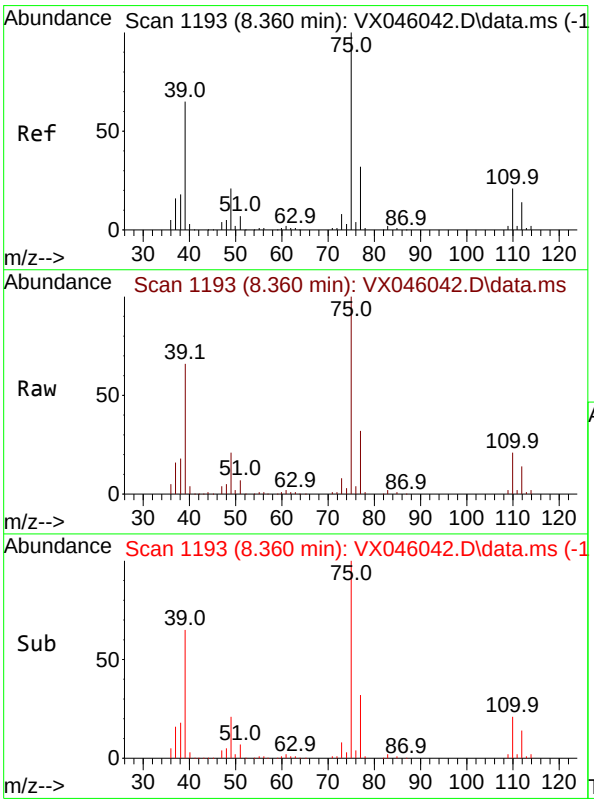
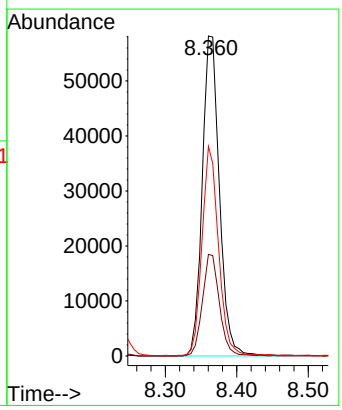
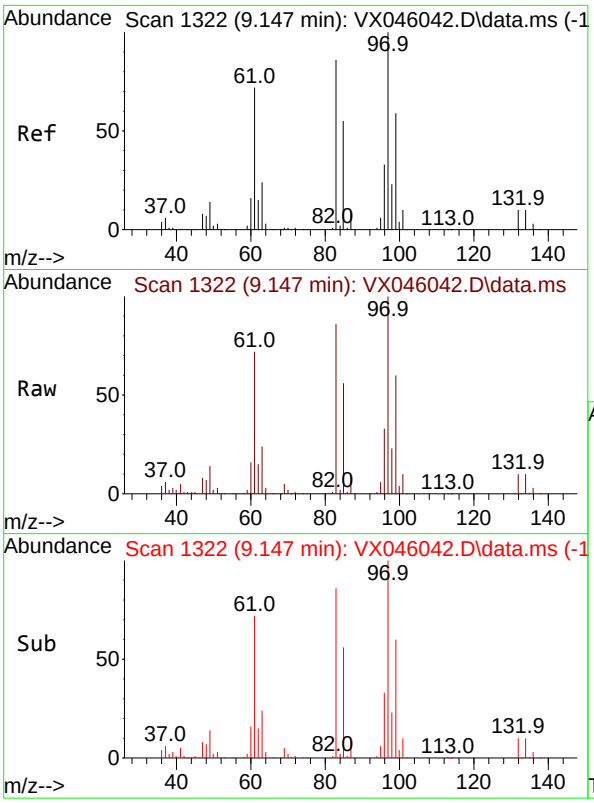


#54
cis-1,3-Dichloropropene
Concen: 38.521 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 75 Resp: 97031

Ion	Ratio	Lower	Upper
75	100		
77	31.7	25.4	38.0
39	65.3	52.2	78.4

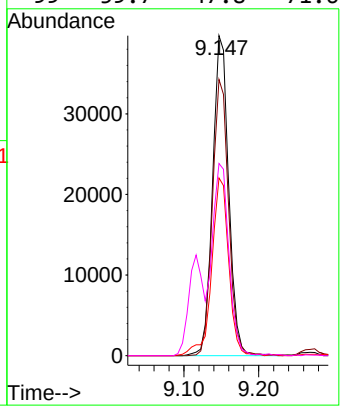




#55
1,1,2-Trichloroethane
Concen: 36.648 ug/l
RT: 9.147 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 97 Resp: 5949

Ion	Ratio	Lower	Upper
97	100		
83	86.3	69.0	103.6
85	55.4	44.3	66.5
99	59.7	47.8	71.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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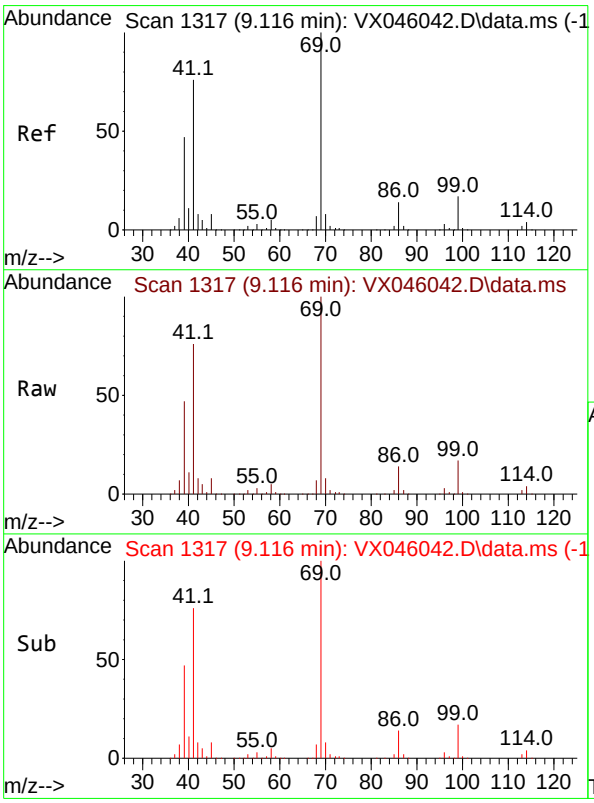
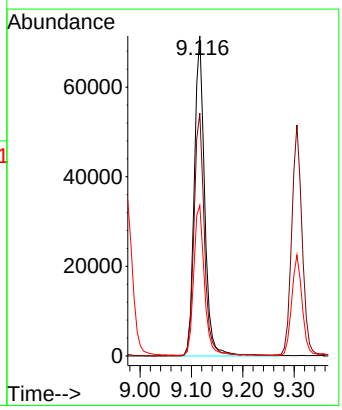
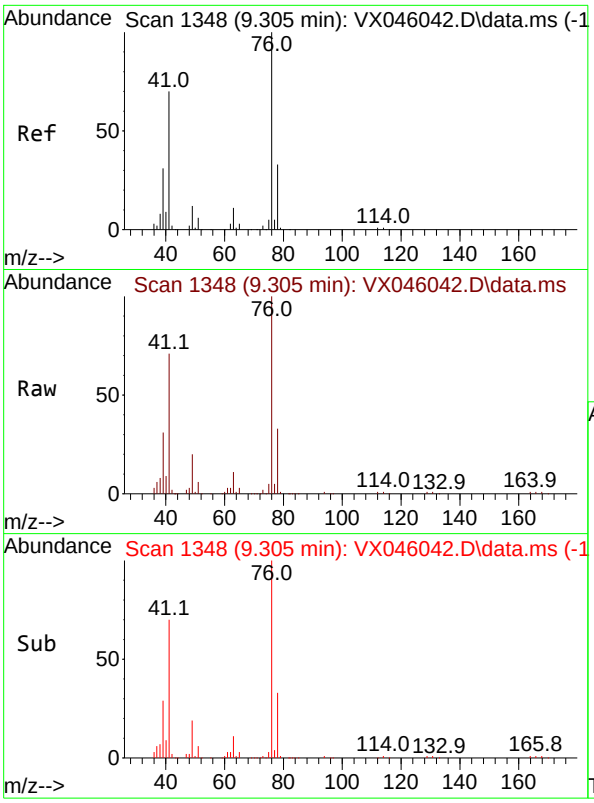


#56
Ethyl methacrylate
Concen: 39.726 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 69 Resp: 99947

Ion	Ratio	Lower	Upper
69	100		
41	76.0	60.8	91.2
39	48.8	39.0	58.6

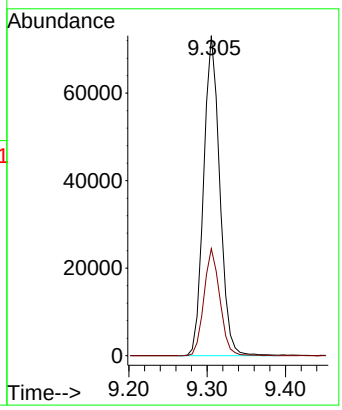




#57
1,3-Dichloropropane
Concen: 36.347 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 76 Resp: 10460

Ion	Ratio	Lower	Upper
76	100		
78	32.9	26.3	39.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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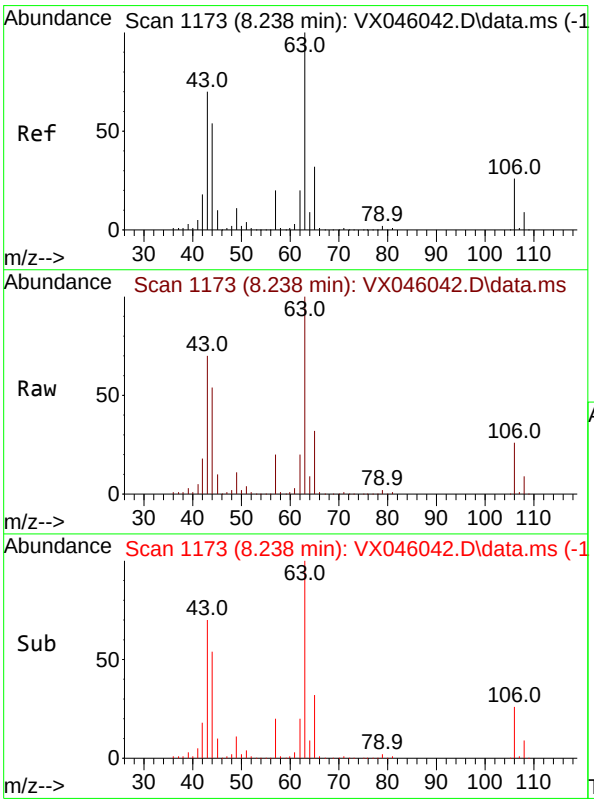
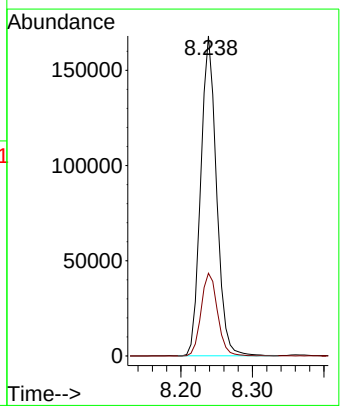
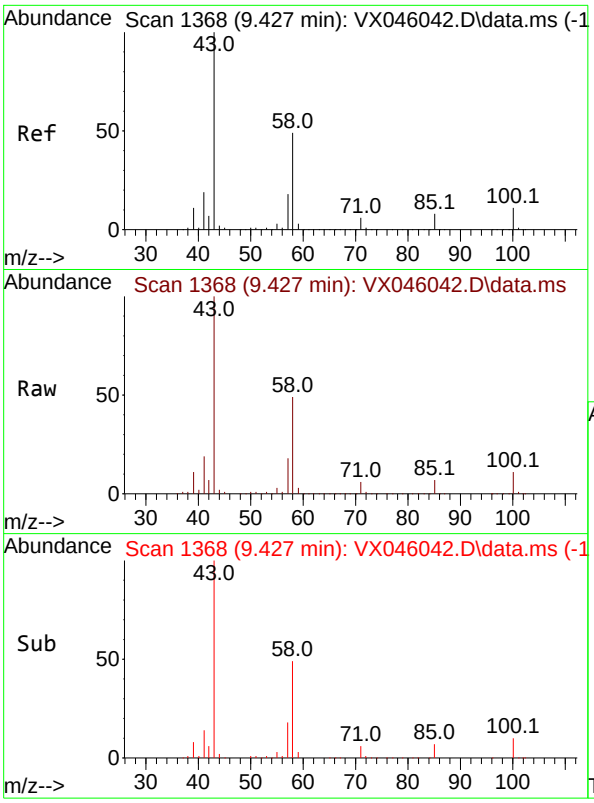


#58
2-Chloroethyl Vinyl ether
Concen: 227.902 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 63 Resp: 257678

Ion	Ratio	Lower	Upper
63	100		
106	26.9	21.5	32.3

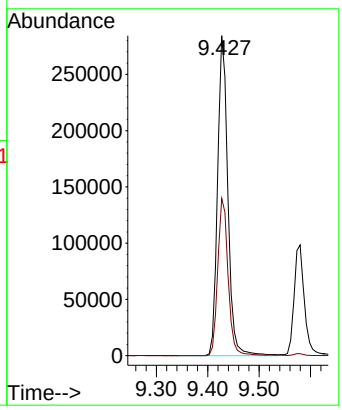




#59
2-Hexanone
Concen: 190.168 ug/l
RT: 9.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 43 Resp: 39678

Ion	Ratio	Lower	Upper
43	100		
58	49.7	24.9	74.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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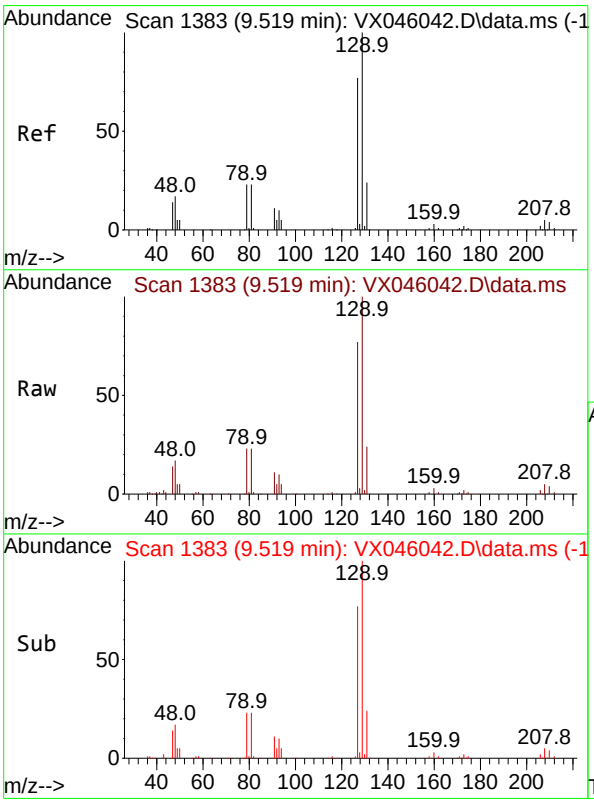
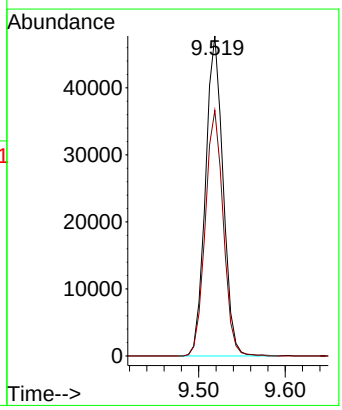
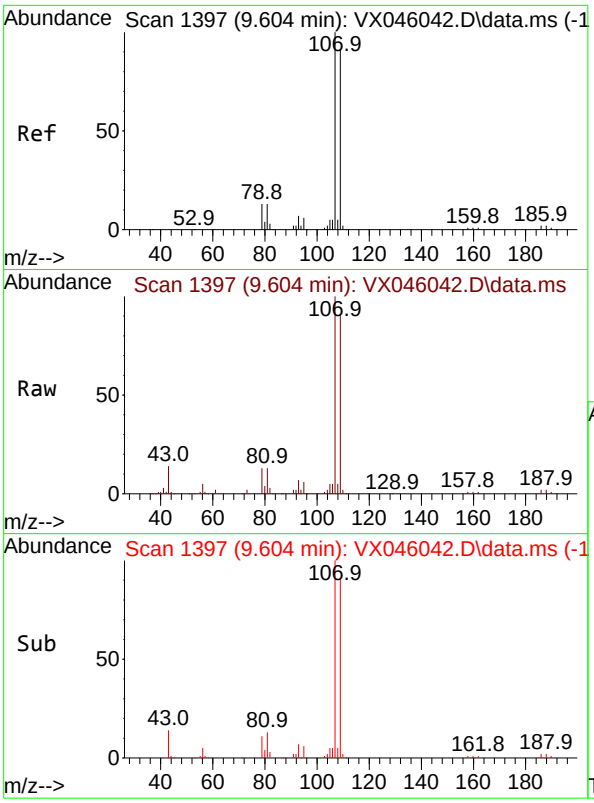


#60
Dibromochloromethane
Concen: 38.027 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion:129 Resp: 67198

Ion	Ratio	Lower	Upper
129	100		
127	78.5	39.3	117.8

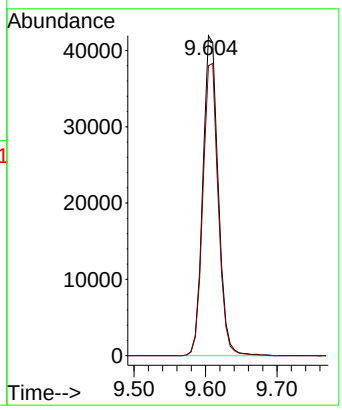




#61
1,2-Dibromoethane
Concen: 37.567 ug/l
RT: 9.604 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion:107 Resp: 6263

Ion	Ratio	Lower	Upper
107	100		
109	91.6	73.3	109.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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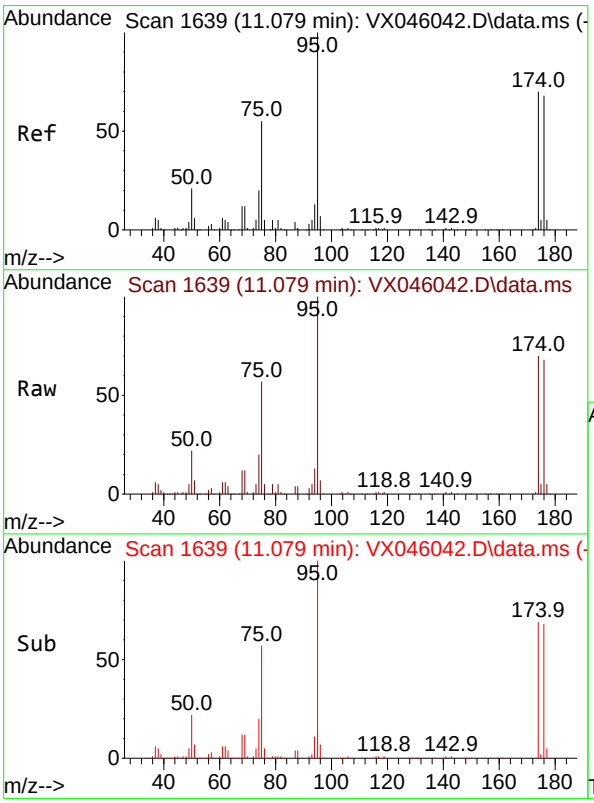
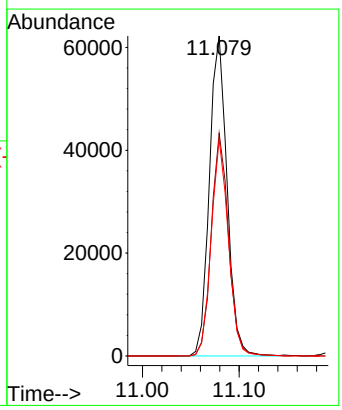
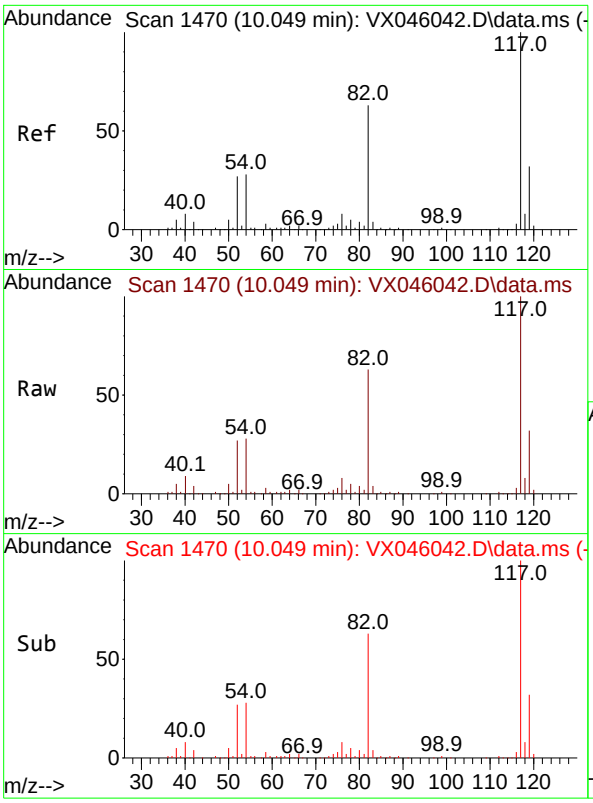


#62
4-Bromofluorobenzene
Concen: 34.229 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 95 Resp: 79012

Ion	Ratio	Lower	Upper
95	100		
174	67.9	0.0	135.8
176	65.7	0.0	131.4

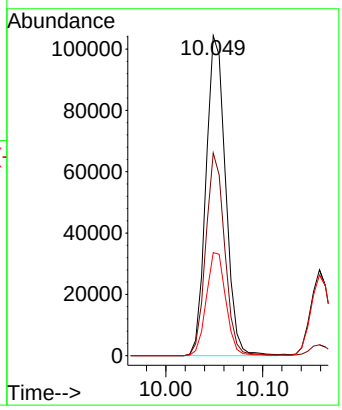




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion:117 Resp: 14625

Ion	Ratio	Lower	Upper
117	100		
82	63.3	50.6	76.0
119	32.2	25.8	38.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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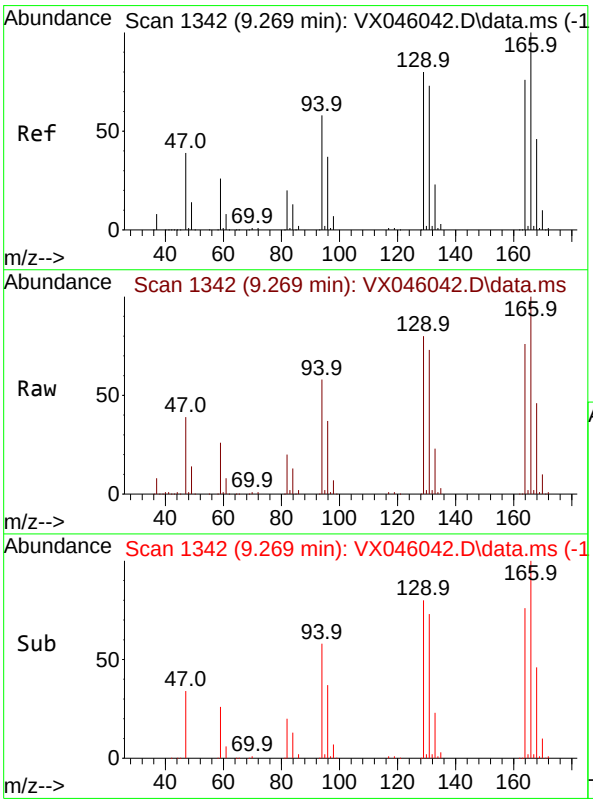
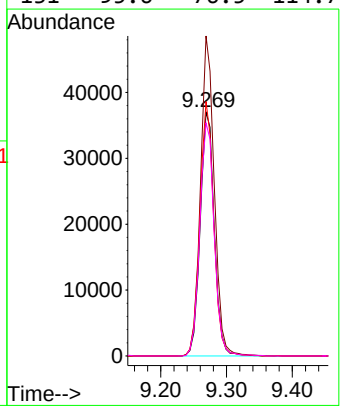
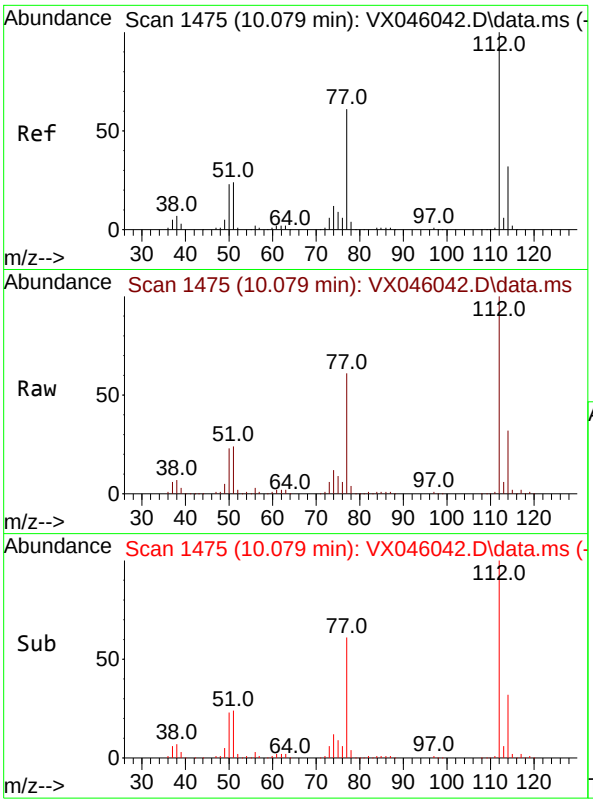


#64
Tetrachloroethene
Concen: 36.726 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion:164 Resp: 54853

Ion	Ratio	Lower	Upper
164	100		
166	131.3	105.0	157.6
129	104.4	83.5	125.3
131	95.6	76.5	114.7

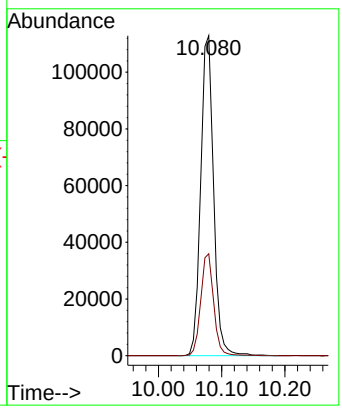




#65
Chlorobenzene
Concen: 35.686 ug/l
RT: 10.079 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion:112 Resp: 16060

Ion	Ratio	Lower	Upper
112	100		
114	31.8	25.4	38.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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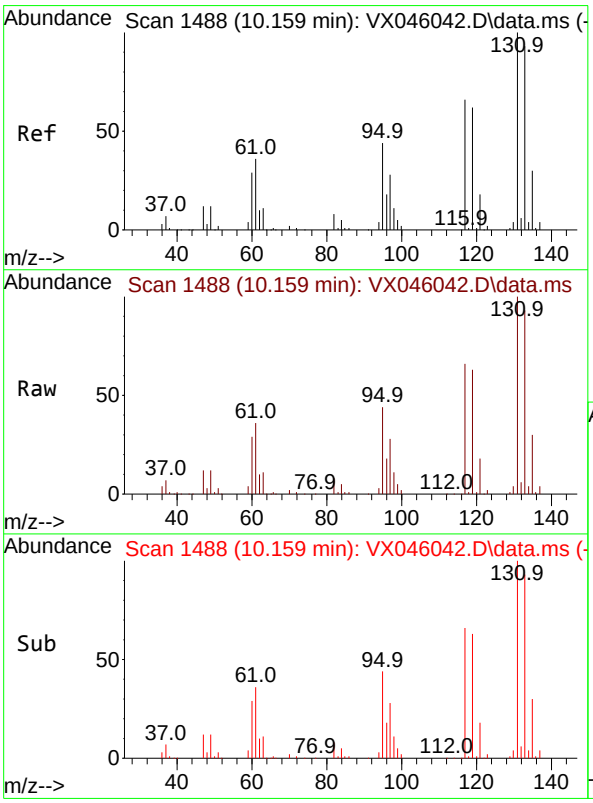
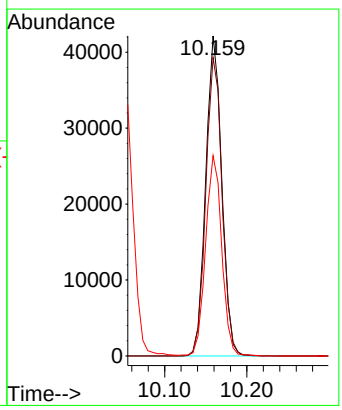
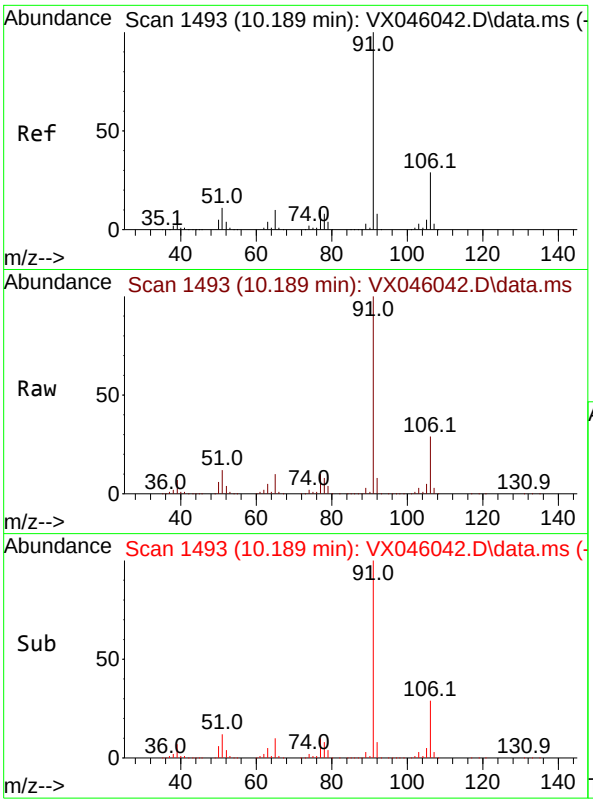


#66
1,1,1,2-Tetrachloroethane
Concen: 38.017 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion:131 Resp: 57066

Ion	Ratio	Lower	Upper
131	100		
133	94.6	47.3	141.9
119	63.3	31.6	95.0

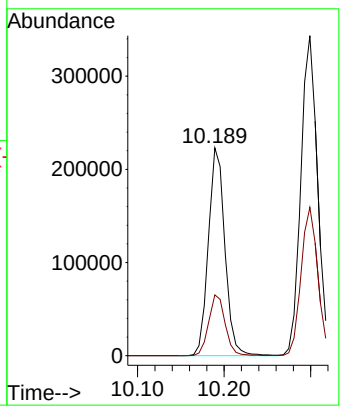




#67
Ethyl Benzene
Concen: 38.543 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 91 Resp: 29571

Ion	Ratio	Lower	Upper
91	100		
106	29.3	23.4	35.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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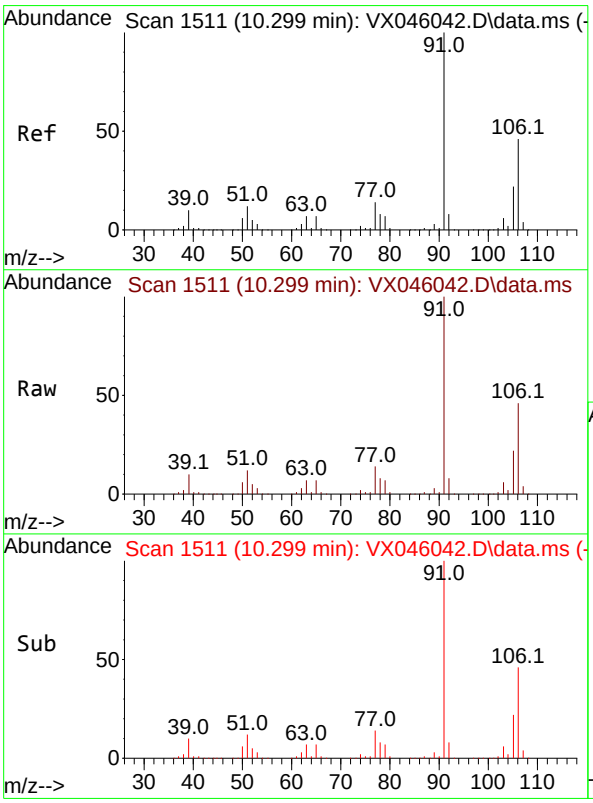
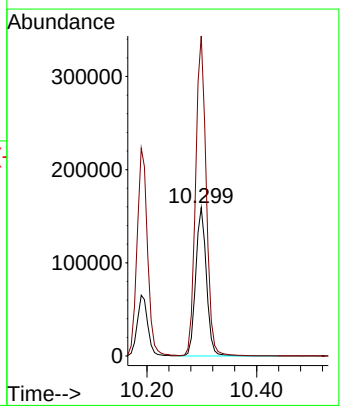
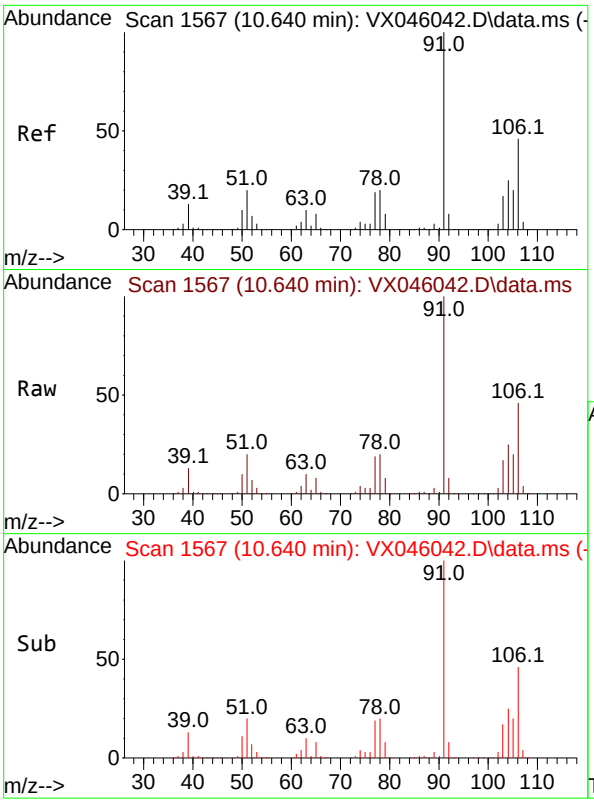


#68
m/p-Xylenes
Concen: 78.142 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion:106 Resp: 216578

Ion	Ratio	Lower	Upper
106	100		
91	214.0	171.2	256.8

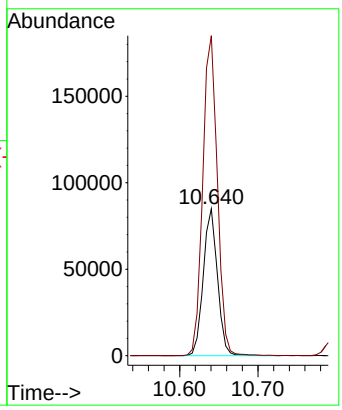




#69
o-Xylene
Concen: 38.064 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion:106 Resp: 10633

Ion	Ratio	Lower	Upper
106	100		
91	225.4	112.7	338.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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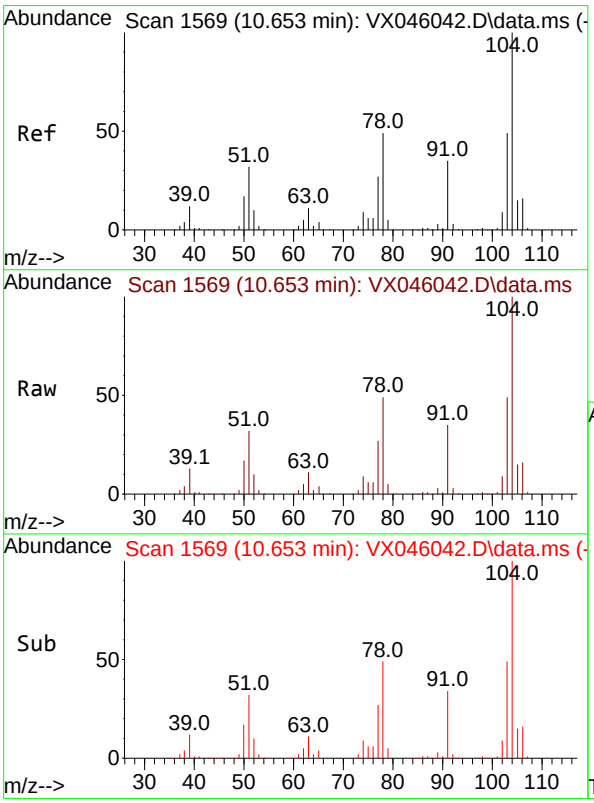
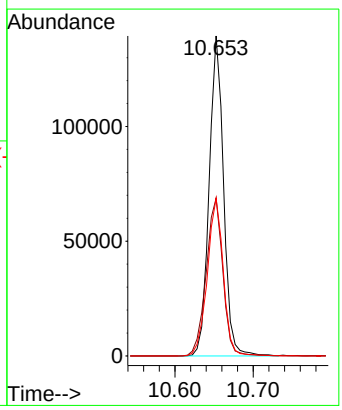
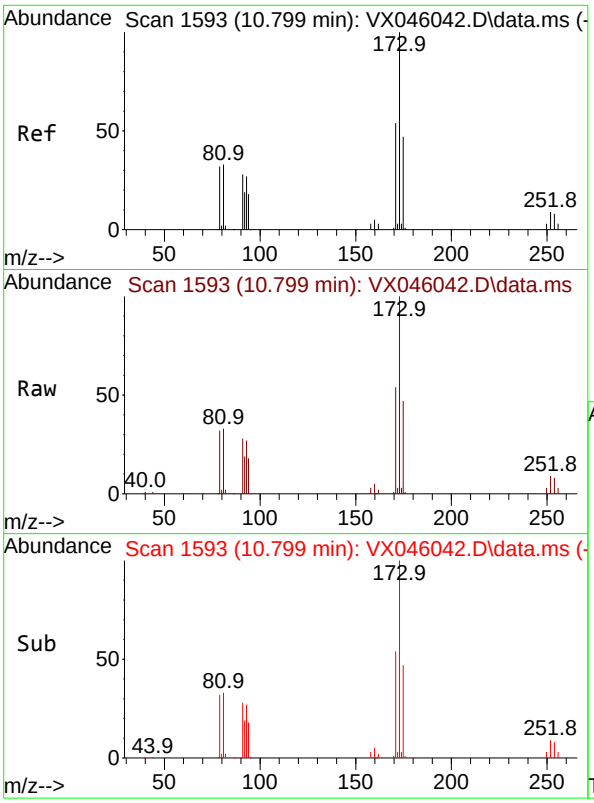


#70
Styrene
Concen: 39.888 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion:104 Resp: 178313

Ion	Ratio	Lower	Upper
104	100		
78	57.1	45.7	68.5
103	54.6	43.7	65.5

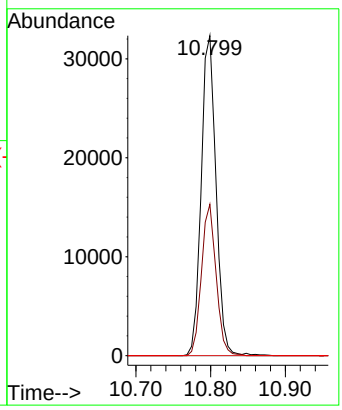




#71
Bromoform
Concen: 39.457 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion:173 Resp: 4448

Ion	Ratio	Lower	Upper
173	100		
175	46.7	23.4	70.0
254	0.0	0.0	0.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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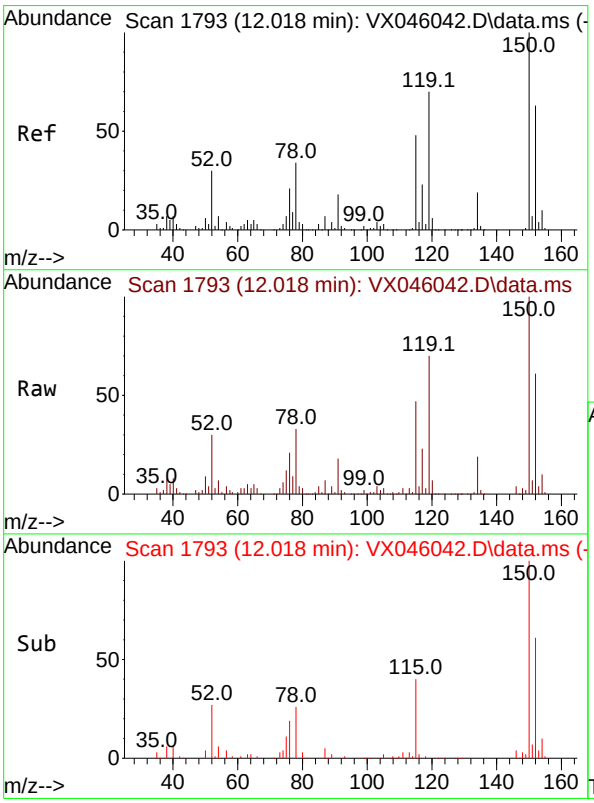
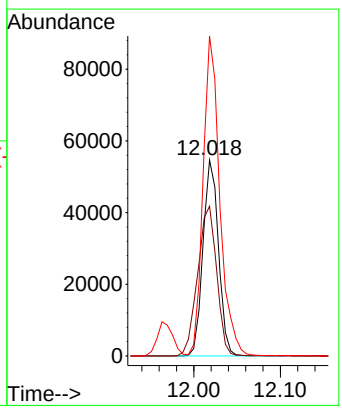
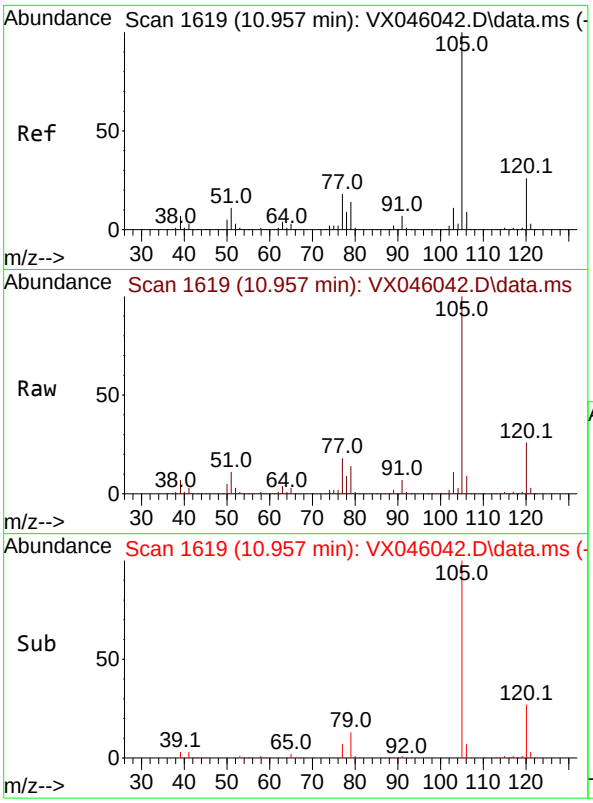


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion:152 Resp: 67976

Ion	Ratio	Lower	Upper
152	100		
115	93.8	46.9	140.7
150	175.5	0.0	351.0





#73
Isopropylbenzene
Concen: 37.865 ug/l
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion:105 Resp: 28071

Ion	Ratio	Lower	Upper
105	100		
120	25.6	12.8	38.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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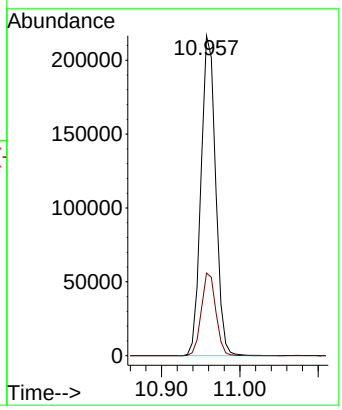
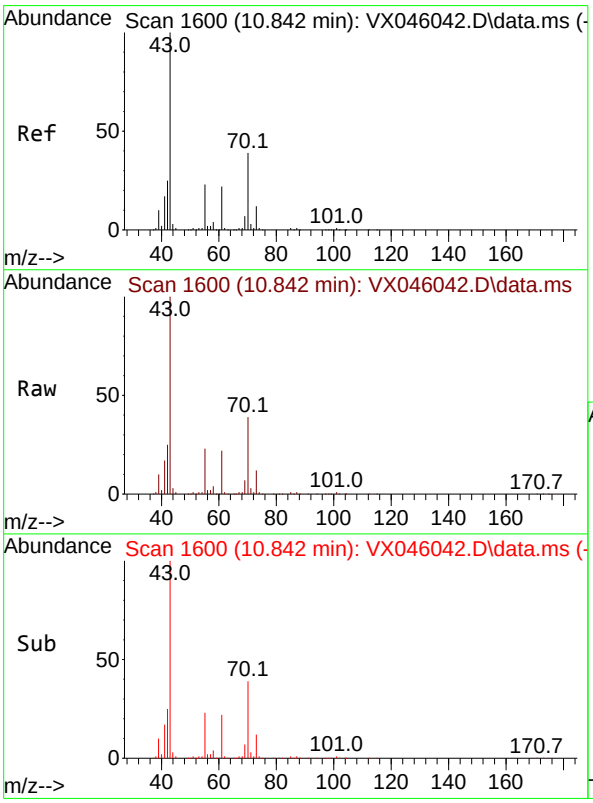
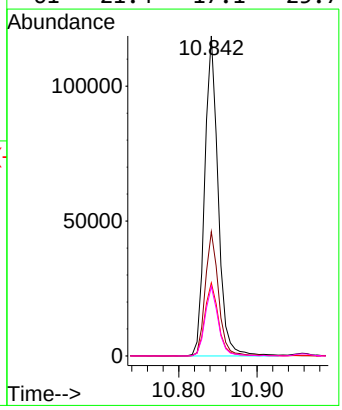


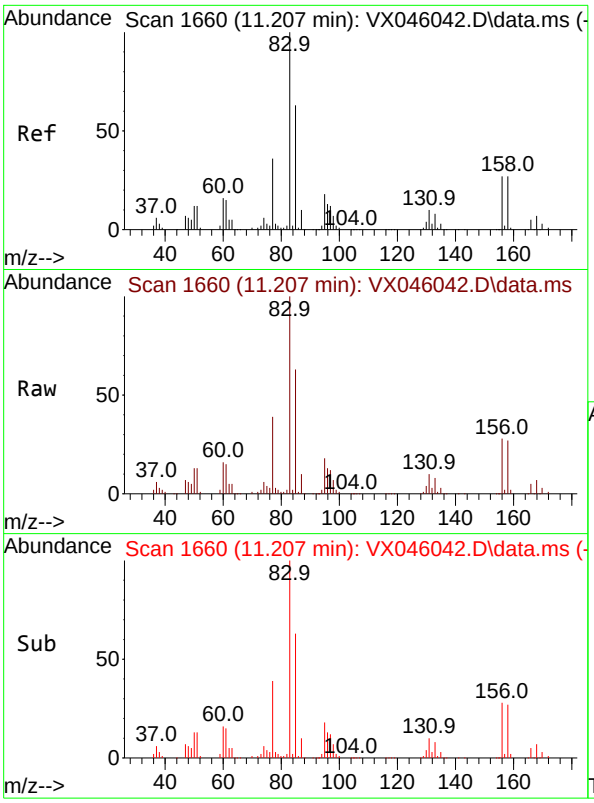


#74
N-amyl acetate
Concen: 38.012 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 43 Resp: 140509

Ion	Ratio	Lower	Upper
43	100		
70	38.6	30.9	46.3
55	23.4	18.7	28.1
61	21.4	17.1	25.7

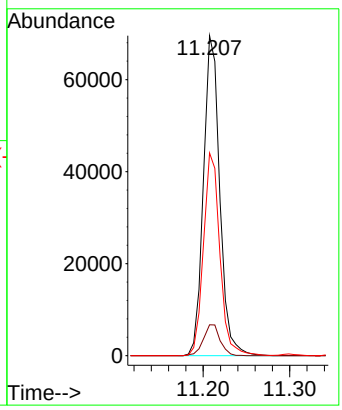




#75
1,1,2,2-Tetrachloroethane
Concen: 34.495 ug/l
RT: 11.207 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 83 Resp: 9097

Ion	Ratio	Lower	Upper
83	100		
131	9.9	5.0	14.9
85	63.8	31.9	95.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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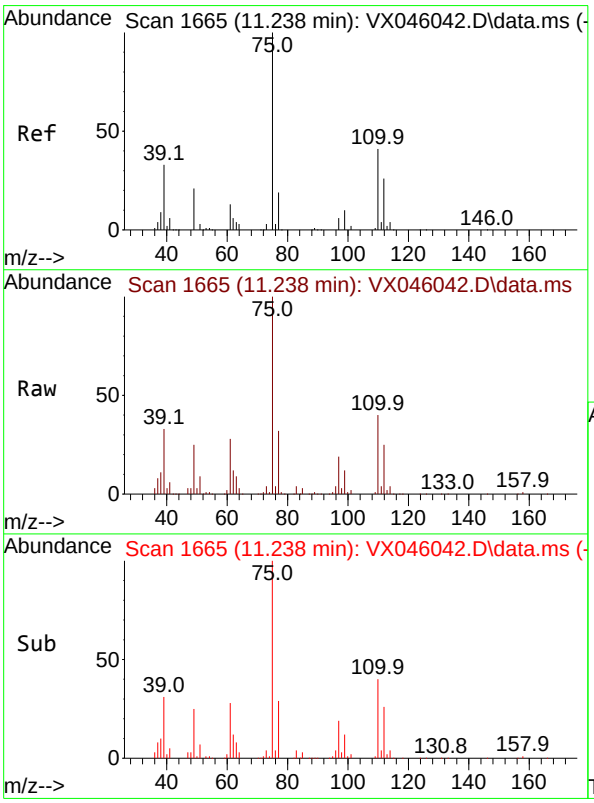
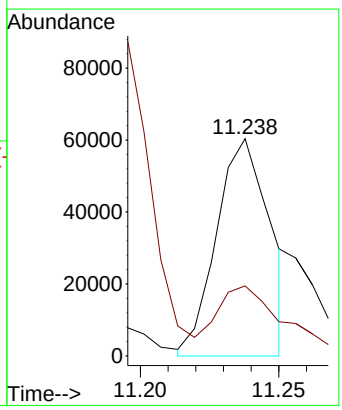
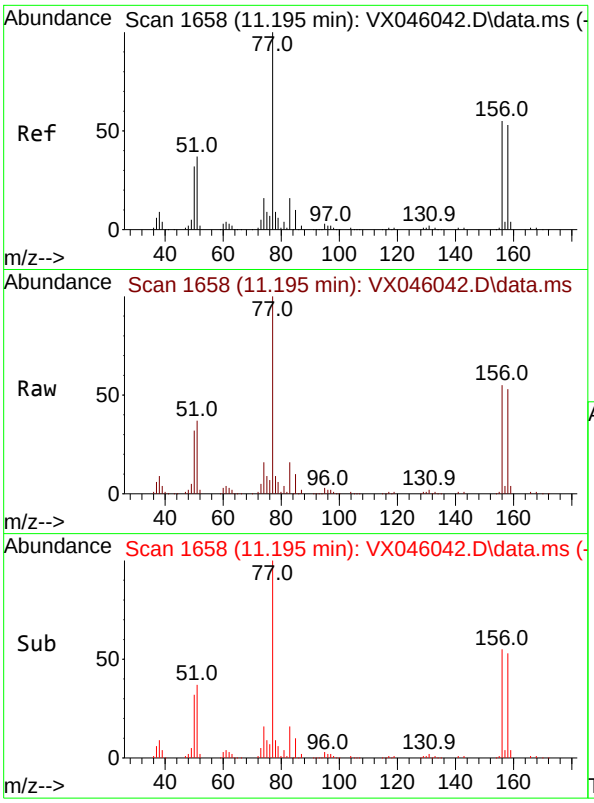


#76
1,2,3-Trichloropropane
Concen: 28.468 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 75 Resp: 80678

Ion	Ratio	Lower	Upper
75	100		
77	41.0	20.5	61.5

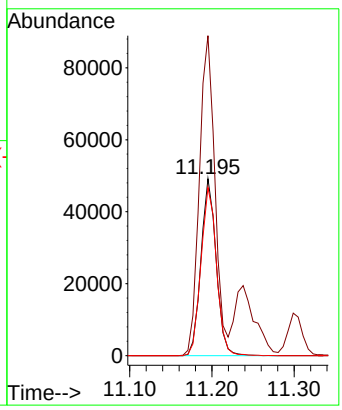




#77
Bromobenzene
Concen: 36.763 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion:156 Resp: 6305

Ion	Ratio	Lower	Upper
156	100		
77	185.5	92.8	278.3
158	97.5	48.8	146.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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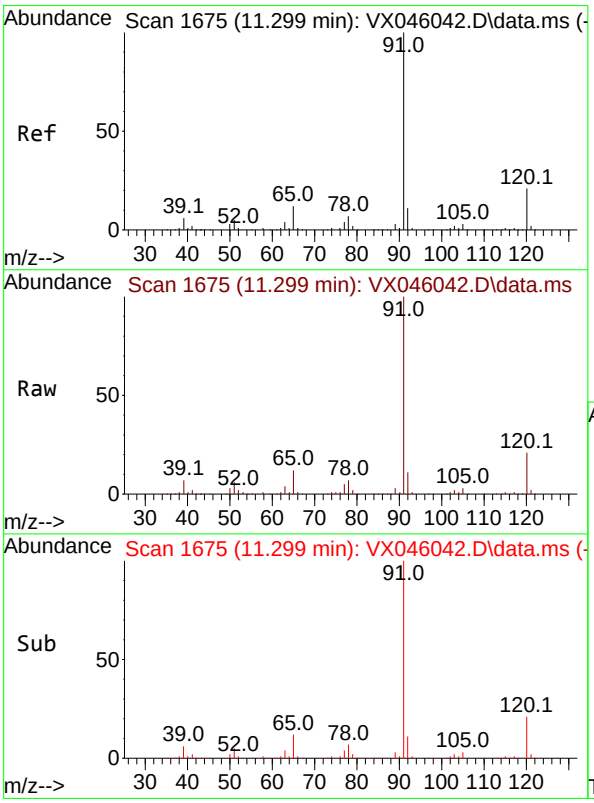
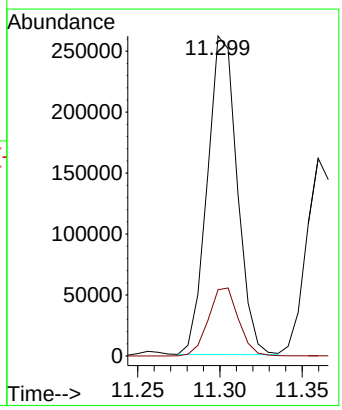
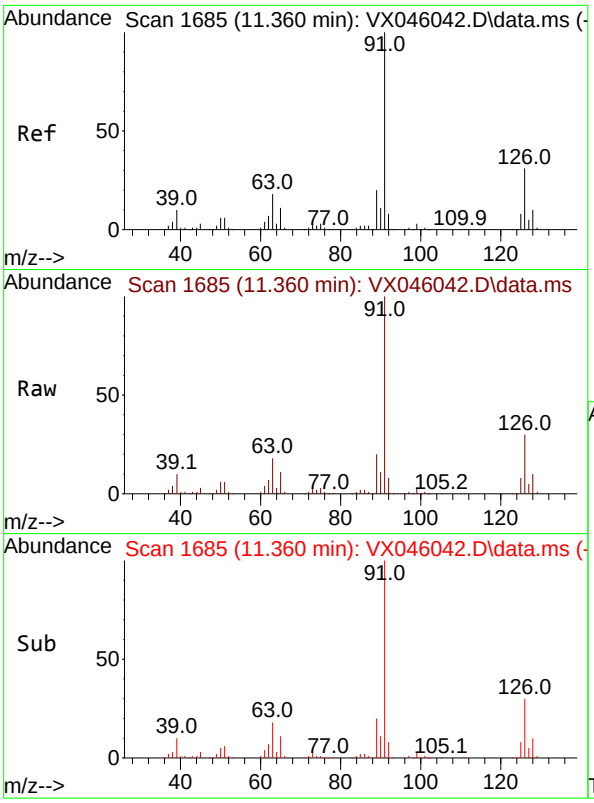


#78
n-propylbenzene
Concen: 39.707 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 91 Resp: 329981

Ion	Ratio	Lower	Upper
91	100		
120	21.6	10.8	32.4

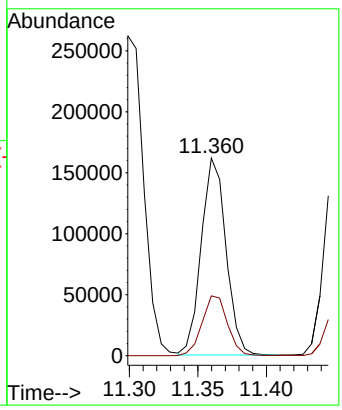




#79
2-Chlorotoluene
Concen: 36.336 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 91 Resp: 20350

Ion	Ratio	Lower	Upper
91	100		
126	31.1	15.6	46.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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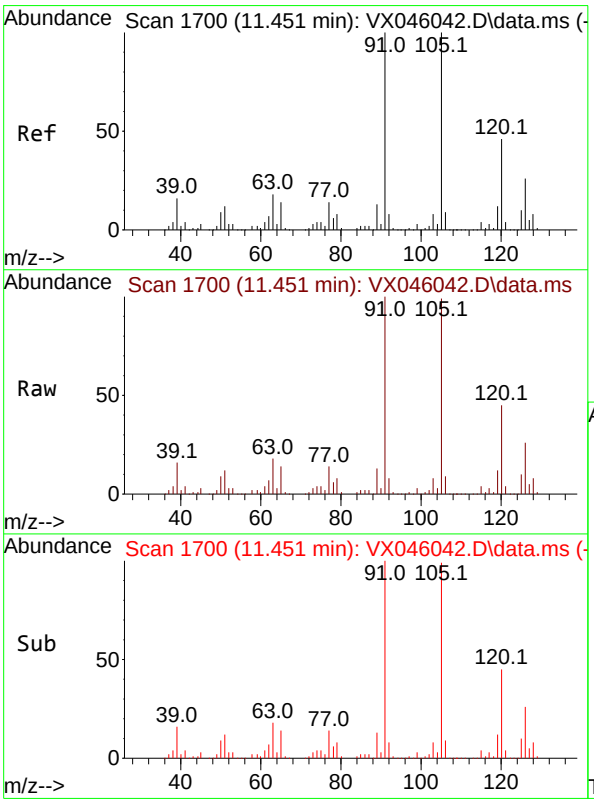
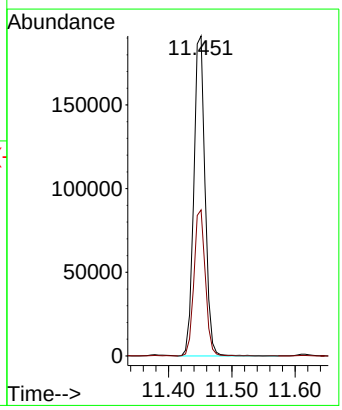
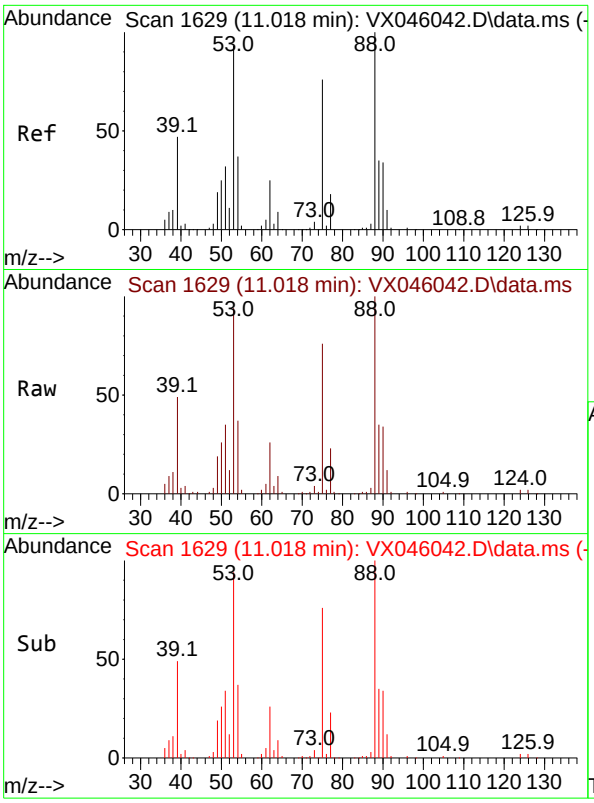


#80
1,3,5-Trimethylbenzene
Concen: 38.516 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion:105 Resp: 237066

Ion	Ratio	Lower	Upper
105	100		
120	46.1	23.1	69.2

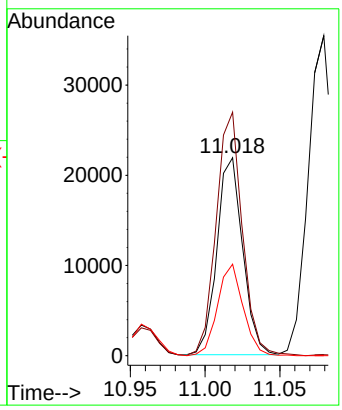




#81
trans-1,4-Dichloro-2-butene
Concen: 38.445 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 75 Resp: 2617

Ion	Ratio	Lower	Upper
75	100		
53	125.6	100.5	150.7
89	46.3	37.0	55.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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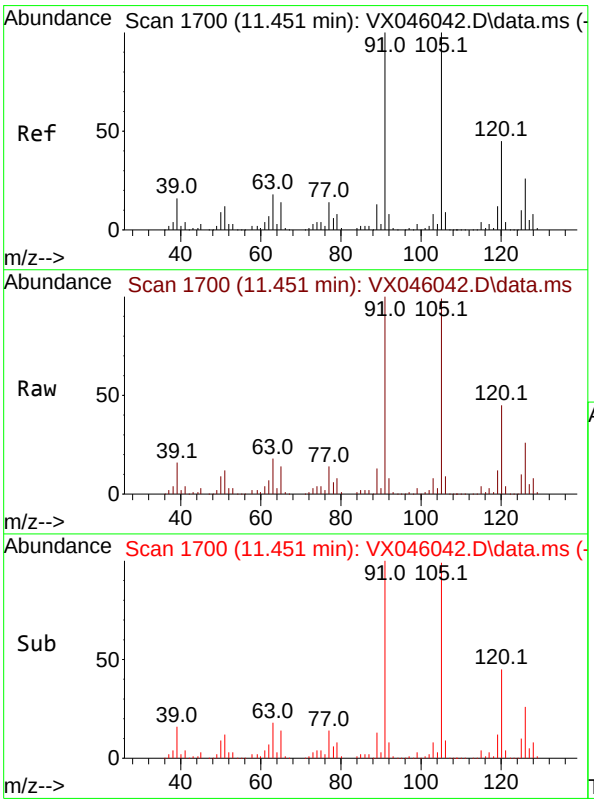
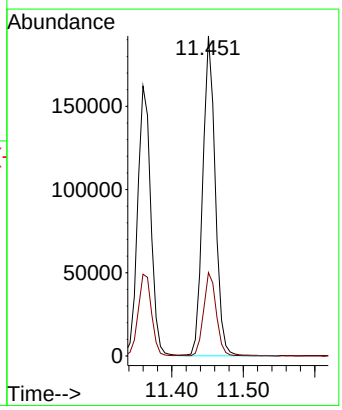
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

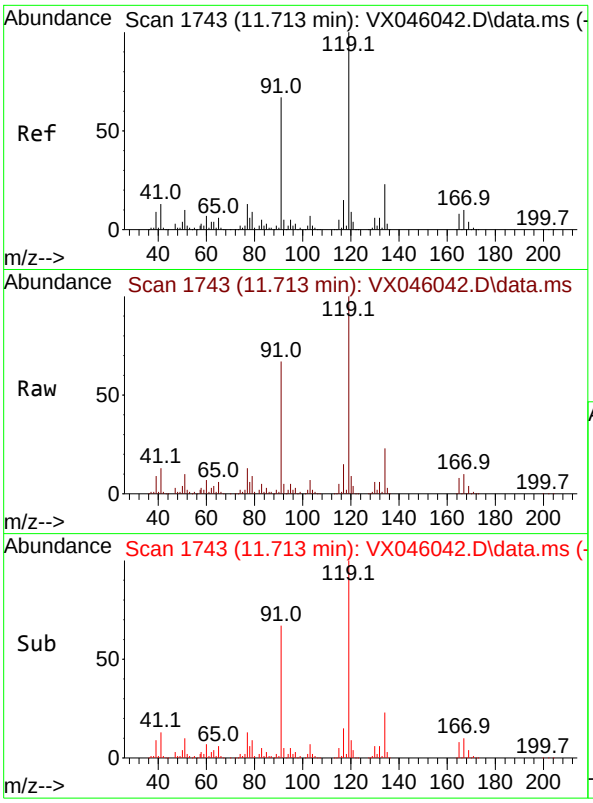


#82
4-Chlorotoluene
Concen: 37.880 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 91 Resp: 233172

Ion	Ratio	Lower	Upper
91	100		
126	26.5	13.3	39.8

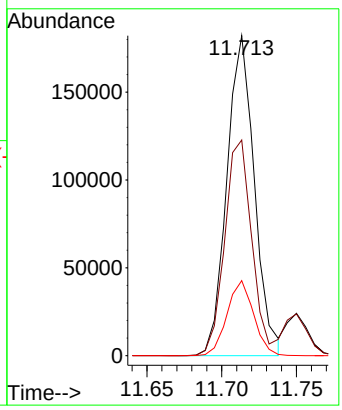




#83
tert-Butylbenzene
Concen: 38.622 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion:119 Resp: 23346

Ion	Ratio	Lower	Upper
119	100		
91	65.8	32.9	98.7
134	22.7	11.4	34.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

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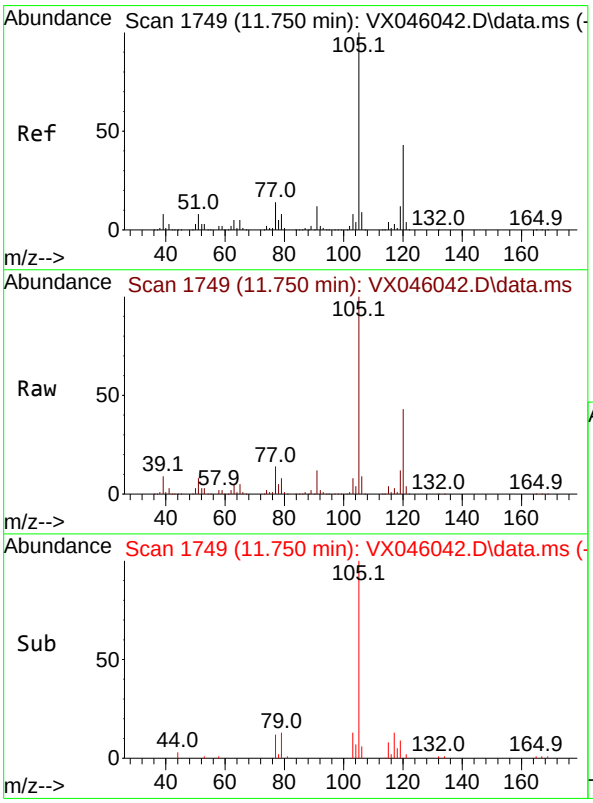
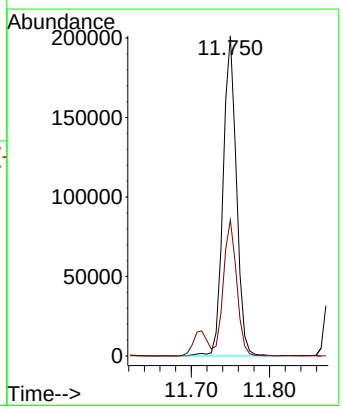
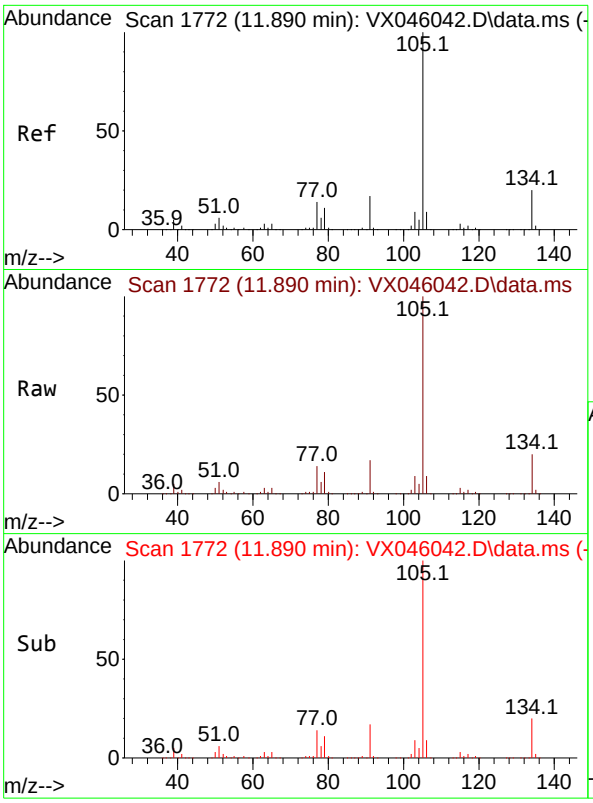


#84
1,2,4-Trimethylbenzene
Concen: 38.946 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion:105 Resp: 239433

Ion	Ratio	Lower	Upper
105	100		
120	42.4	21.2	63.6

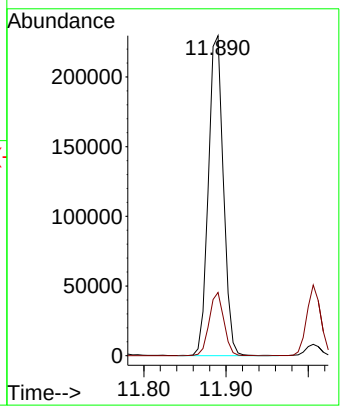




#85
sec-Butylbenzene
Concen: 38.786 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion:105 Resp: 29107

Ion	Ratio	Lower	Upper
105	100		
134	19.4	9.7	29.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 05/06/2025
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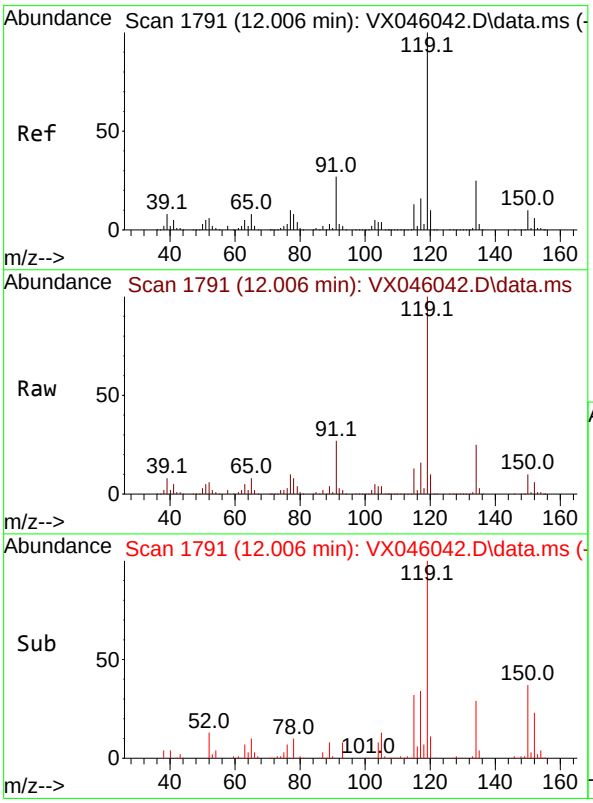
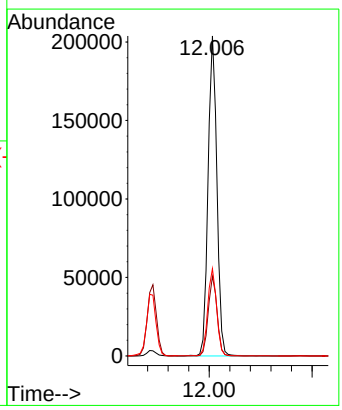
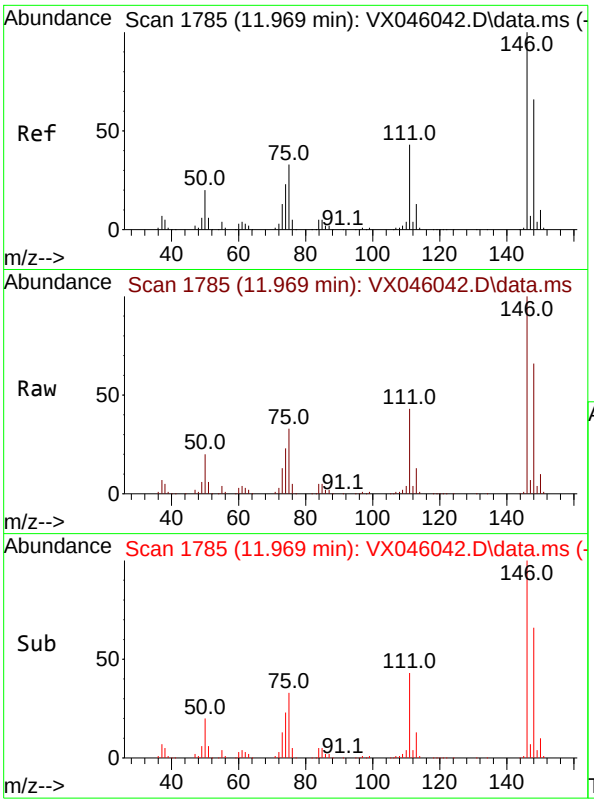


#86
p-Isopropyltoluene
Concen: 39.879 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion:119 Resp: 241658

Ion	Ratio	Lower	Upper
119	100		
134	25.0	12.5	37.5
91	27.6	13.8	41.4

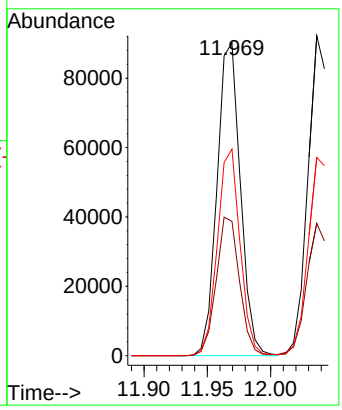




#87
1,3-Dichlorobenzene
Concen: 36.199 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion:146 Resp: 11565

Ion	Ratio	Lower	Upper
146	100		
111	44.2	22.1	66.3
148	64.3	32.1	96.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

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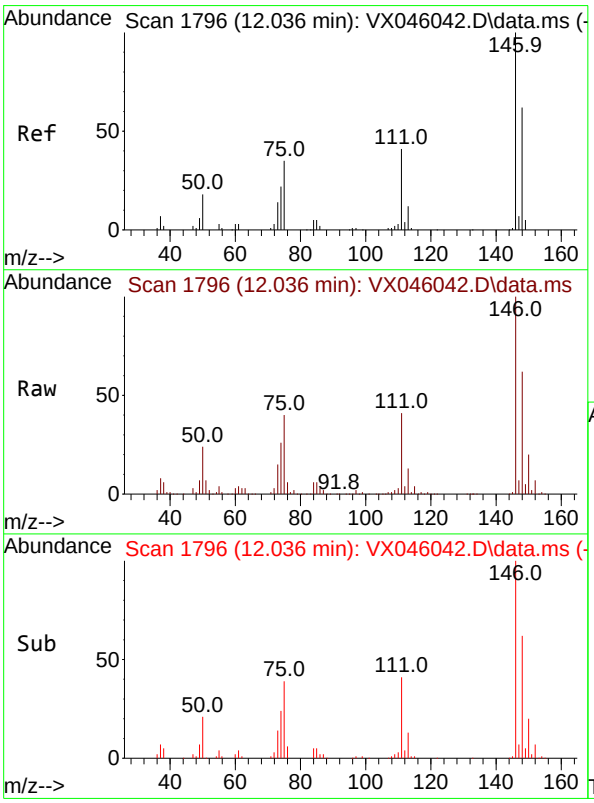
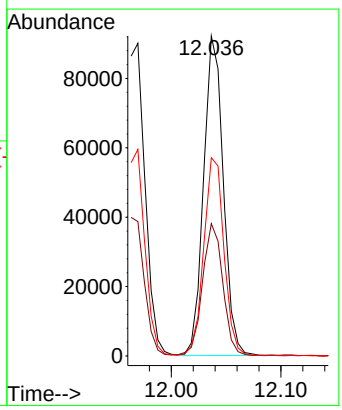
Supervised By :Mahesh Dadoda 05/06/2025

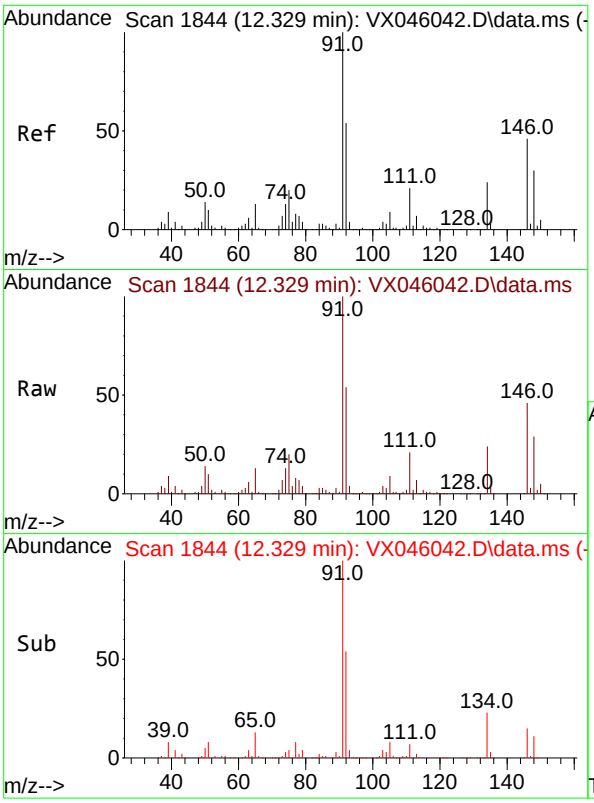


#88
1,4-Dichlorobenzene
Concen: 36.763 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion:146 Resp: 115097

Ion	Ratio	Lower	Upper
146	100		
111	42.6	21.3	63.9
148	63.7	31.9	95.5

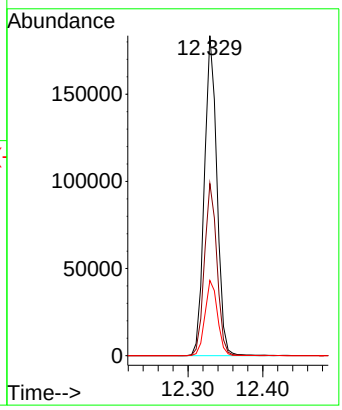




#89
n-Butylbenzene
Concen: 40.603 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 91 Resp: 213899

Ion	Ratio	Lower	Upper
91	100		
92	53.8	26.9	80.7
134	23.5	11.8	35.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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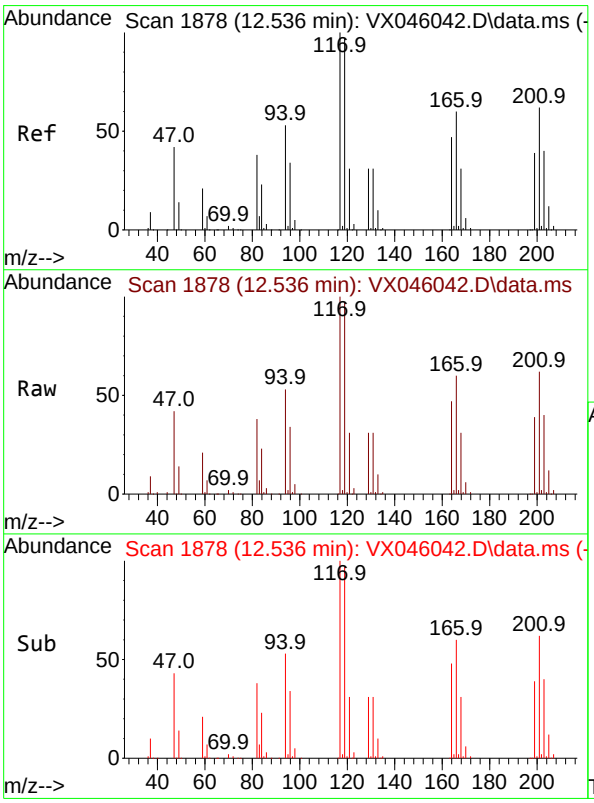
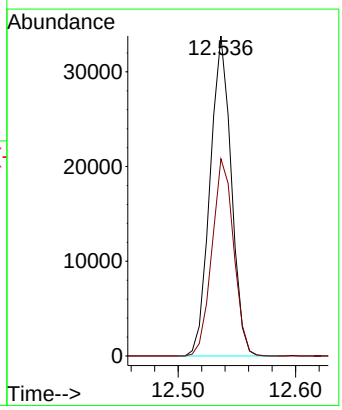
Supervised By :Mahesh Dadoda 05/06/2025

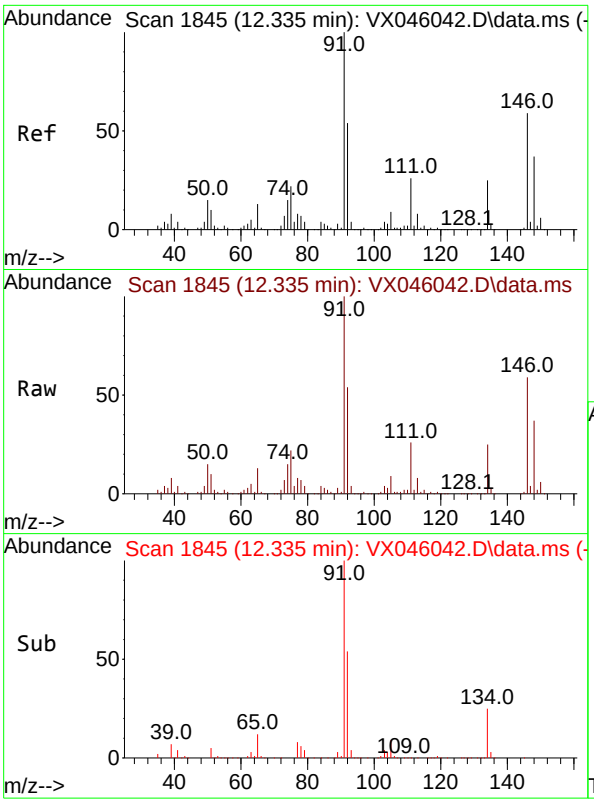


#90
Hexachloroethane
Concen: 37.534 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion:117 Resp: 42314

Ion	Ratio	Lower	Upper
117	100		
201	63.1	31.6	94.7

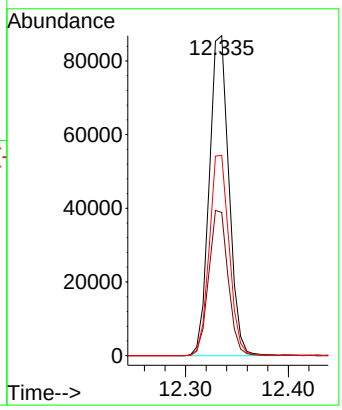




#91
1,2-Dichlorobenzene
Concen: 37.047 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion:146 Resp: 11528

Ion	Ratio	Lower	Upper
146	100		
111	44.9	22.4	67.3
148	63.2	31.6	94.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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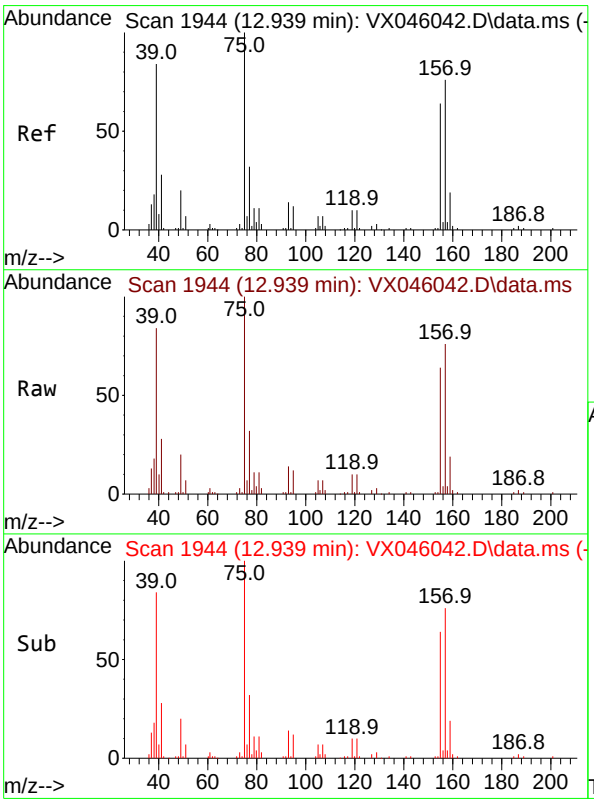
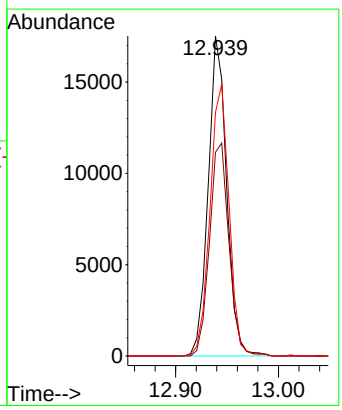
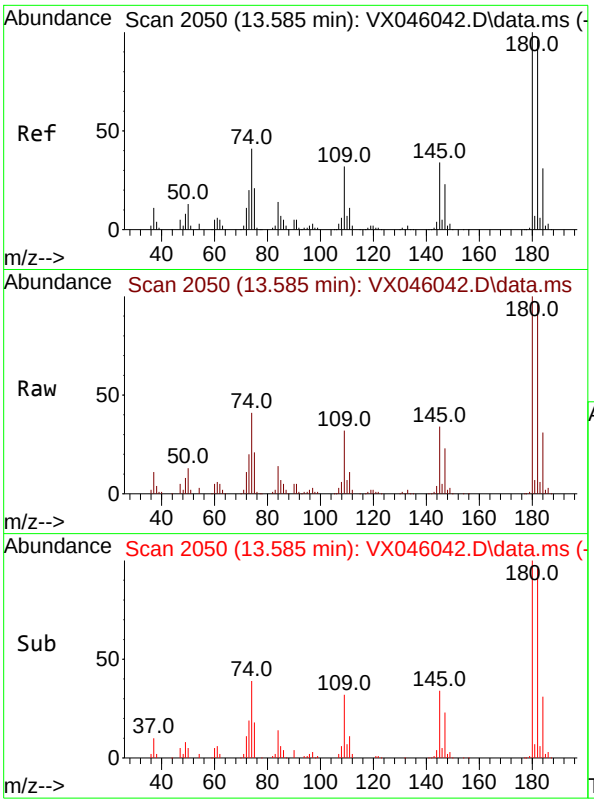


#92
1,2-Dibromo-3-Chloropropane
Concen: 36.496 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 75 Resp: 21909

Ion	Ratio	Lower	Upper
75	100		
155	69.9	34.9	104.8
157	87.6	43.8	131.4

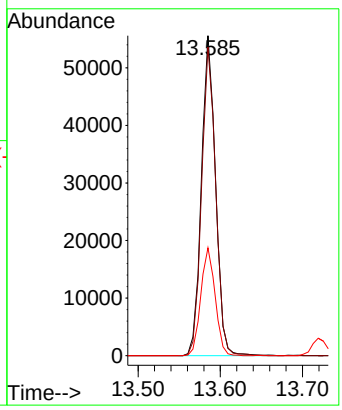




#93
1,2,4-Trichlorobenzene
Concen: 39.117 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion:180 Resp: 6665

Ion	Ratio	Lower	Upper
180	100		
182	95.9	47.9	143.8
145	34.1	17.1	51.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

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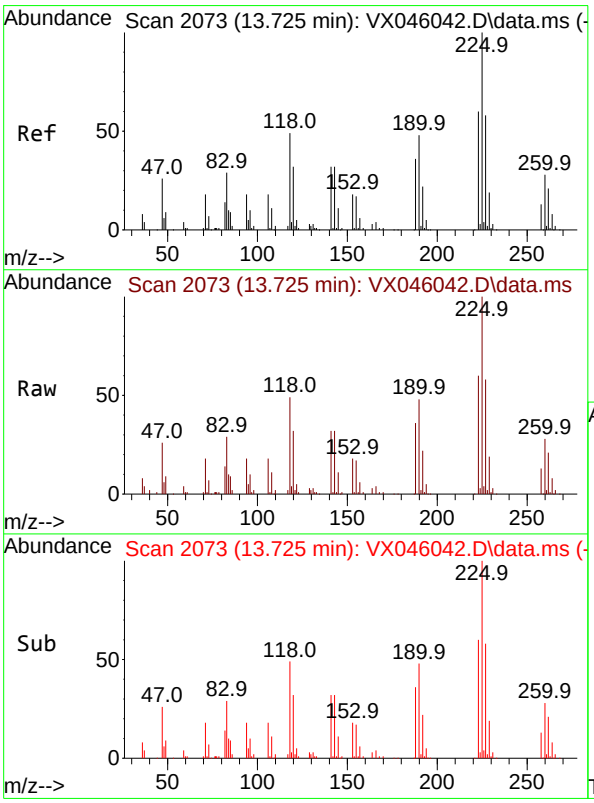
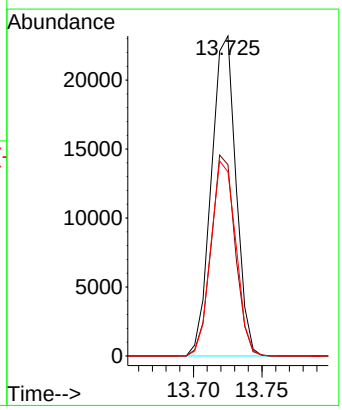
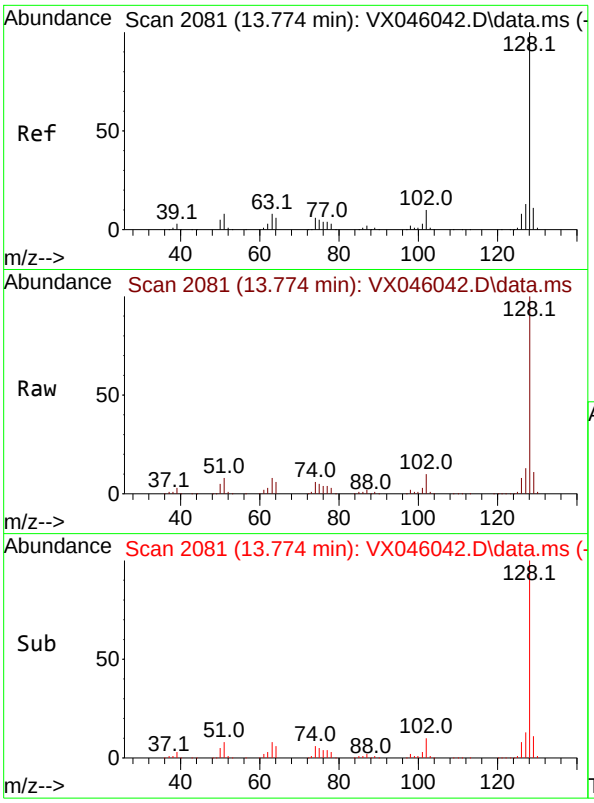


#94
Hexachlorobutadiene
Concen: 36.395 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion:225 Resp: 29007

Ion	Ratio	Lower	Upper
225	100		
223	61.6	30.8	92.4
227	61.8	30.9	92.7

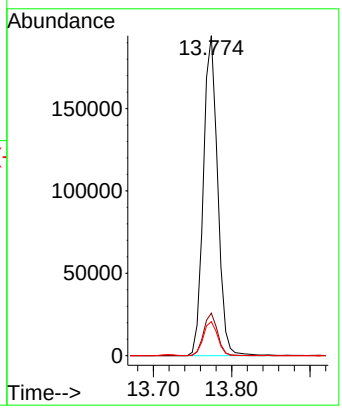




#95
Naphthalene
Concen: 39.575 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion:128 Resp: 24556

Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.4	15.6
129	10.8	8.6	13.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
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Reviewed By :John Carlone 05/06/2025
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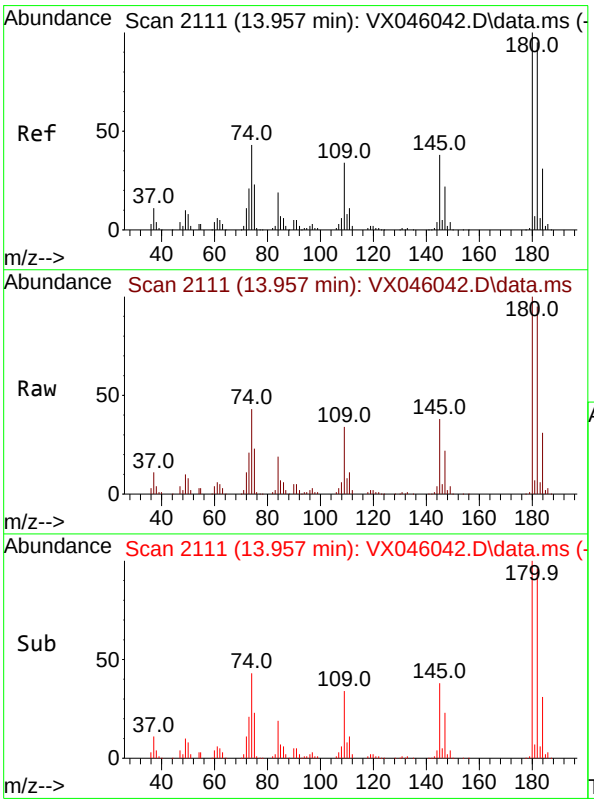
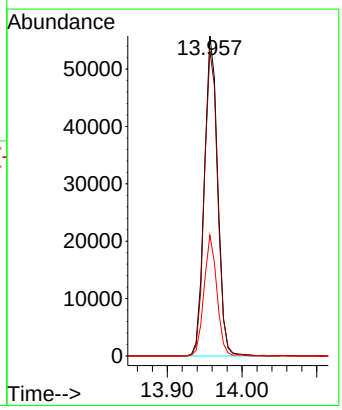


#96
1,2,3-Trichlorobenzene
Concen: 38.765 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion:180 Resp: 69262

Ion	Ratio	Lower	Upper
180	100		
182	95.5	47.8	143.3
145	36.2	18.1	54.3



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046043.D
Acq On : 05 May 2025 12:21
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 06 06:10:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	87028	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	152958	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	135214	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	66369	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	161877	62.526	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 125.060%#			
35) Dibromofluoromethane	5.379	113	111455	65.006	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 130.020%#			
50) Toluene-d8	8.647	98	387230	67.031	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 134.060%#			
62) 4-Bromofluorobenzene	11.079	95	153085	72.818	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 145.640%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	149508	77.828	ug/l	99
3) Chloromethane	1.307	50	136937	72.392	ug/l	98
4) Vinyl Chloride	1.374	62	126609	76.398	ug/l	98
5) Bromomethane	1.593	94	59246	70.507	ug/l	99
6) Chloroethane	1.660	64	57332	67.148	ug/l	99
7) Trichlorofluoromethane	1.867	101	171042	67.754	ug/l	99
8) Diethyl Ether	2.136	74	58762	70.807	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.319	101	109520	72.604	ug/l	99
10) Methyl Iodide	2.440	142	138045	77.943	ug/l	100
11) Tert butyl alcohol	2.995	59	125094	405.394	ug/l	100
12) 1,1-Dichloroethene	2.306	96	105566	71.884	ug/l	96
13) Acrolein	2.239	56	134456	375.132	ug/l	99
14) Allyl chloride	2.660	41	206519	74.419	ug/l	98
15) Acrylonitrile	3.068	53	331142	358.723	ug/l	97
16) Acetone	2.386	43	314383	354.936	ug/l	98
17) Carbon Disulfide	2.501	76	264956	77.867	ug/l	100
18) Methyl Acetate	2.703	43	147014	69.531	ug/l	96
19) Methyl tert-butyl Ether	3.117	73	378113	73.818	ug/l	100
20) Methylene Chloride	2.782	84	120270	67.030	ug/l	96
21) trans-1,2-Dichloroethene	3.087	96	106606	71.109	ug/l	99
22) Diisopropyl ether	3.763	45	399494	77.048	ug/l	90
23) Vinyl Acetate	3.721	43	1811550	395.363	ug/l	100
24) 1,1-Dichloroethane	3.605	63	219759	72.114	ug/l	99
25) 2-Butanone	4.556	43	485448	379.704	ug/l	100
26) 2,2-Dichloropropane	4.464	77	174579	75.621	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	128454	71.056	ug/l	99
28) Bromochloromethane	4.891	49	103602	63.932	ug/l	100
29) Tetrahydrofuran	5.001	42	305757	368.234	ug/l	99
30) Chloroform	5.086	83	222253	70.180	ug/l	95
31) Cyclohexane	5.458	56	196302	76.428	ug/l	99
32) 1,1,1-Trichloroethane	5.373	97	201112	73.635	ug/l	98
36) 1,1-Dichloropropene	5.690	75	147873	74.285	ug/l	99
37) Ethyl Acetate	4.714	43	186215	74.565	ug/l	99
38) Carbon Tetrachloride	5.672	117	168946	73.875	ug/l	99
39) Methylcyclohexane	7.372	83	191941	76.952	ug/l	96
40) Benzene	6.031	78	440885	71.457	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046043.D
Acq On : 05 May 2025 12:21
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 06 06:10:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.916	41	104863	75.574	ug/l		98
42) 1,2-Dichloroethane	6.080	62	187036	73.318	ug/l		99
43) Isopropyl Acetate	6.342	43	300491	78.714	ug/l		100
44) Trichloroethene	7.123	130	105628	72.420	ug/l		98
45) 1,2-Dichloropropane	7.427	63	112554	73.420	ug/l		100
46) Dibromomethane	7.574	93	85728	70.938	ug/l		100
47) Bromodichloromethane	7.818	83	175301	74.845	ug/l		99
48) Methyl methacrylate	7.689	41	153093	78.101	ug/l		99
49) 1,4-Dioxane	7.659	88	57313	1470.687	ug/l		99
51) 4-Methyl-2-Pentanone	8.573	43	963319	384.740	ug/l		100
52) Toluene	8.714	92	270763	74.010	ug/l		100
53) t-1,3-Dichloropropene	8.976	75	169863	86.372	ug/l		100
54) cis-1,3-Dichloropropene	8.366	75	184134	80.264	ug/l		95
55) 1,1,2-Trichloroethane	9.147	97	107264	72.543	ug/l		99
56) Ethyl methacrylate	9.116	69	188717	82.359	ug/l		99
57) 1,3-Dichloropropane	9.305	76	187649	71.590	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.238	63	463169	449.791	ug/l		100
59) 2-Hexanone	9.433	43	729602	383.945	ug/l		100
60) Dibromochloromethane	9.518	129	127012	78.918	ug/l		98
61) 1,2-Dibromoethane	9.610	107	112669	74.200	ug/l		98
64) Tetrachloroethene	9.268	164	93195	67.493	ug/l		96
65) Chlorobenzene	10.079	112	293284	70.490	ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.159	131	103177	74.349	ug/l		99
67) Ethyl Benzene	10.189	91	535122	75.444	ug/l		99
68) m/p-Xylenes	10.299	106	389935	152.181	ug/l		99
69) o-Xylene	10.640	106	190833	73.890	ug/l		97
70) Styrene	10.652	104	328195	79.411	ug/l		100
71) Bromoform	10.799	173	84353	80.927	ug/l	#	98
73) Isopropylbenzene	10.957	105	514528	71.083	ug/l		100
74) N-amyl acetate	10.841	43	274553	76.073	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.213	83	170481	66.207	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	150182m	54.277	ug/l		
77) Bromobenzene	11.195	156	117151	69.959	ug/l		99
78) n-propylbenzene	11.305	91	608332	74.974	ug/l		100
79) 2-Chlorotoluene	11.360	91	372392	68.100	ug/l		100
80) 1,3,5-Trimethylbenzene	11.451	105	432096	71.903	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	54398	81.820	ug/l		93
82) 4-Chlorotoluene	11.451	91	432053	71.890	ug/l		100
83) tert-Butylbenzene	11.713	119	432011	73.197	ug/l		99
84) 1,2,4-Trimethylbenzene	11.750	105	442728	73.758	ug/l		100
85) sec-Butylbenzene	11.890	105	543597	74.188	ug/l		100
86) p-Isopropyltoluene	12.006	119	457898	77.393	ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	219753	70.449	ug/l		99
88) 1,4-Dichlorobenzene	12.036	146	217613	71.190	ug/l		99
89) n-Butylbenzene	12.329	91	416602	80.996	ug/l		100
90) Hexachloroethane	12.536	117	82528	74.978	ug/l		100
91) 1,2-Dichlorobenzene	12.335	146	216834	71.367	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	43673	74.512	ug/l		98
93) 1,2,4-Trichlorobenzene	13.585	180	137430	82.605	ug/l		98
94) Hexachlorobutadiene	13.725	225	55494	71.314	ug/l		98
95) Naphthalene	13.774	128	489778	80.842	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	139525	79.981	ug/l		98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046043.D
Acq On : 05 May 2025 12:21
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

Quant Time: May 06 06:10:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046043.D
Acq On : 05 May 2025 12:21
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 06 06:10:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 05/06/2025
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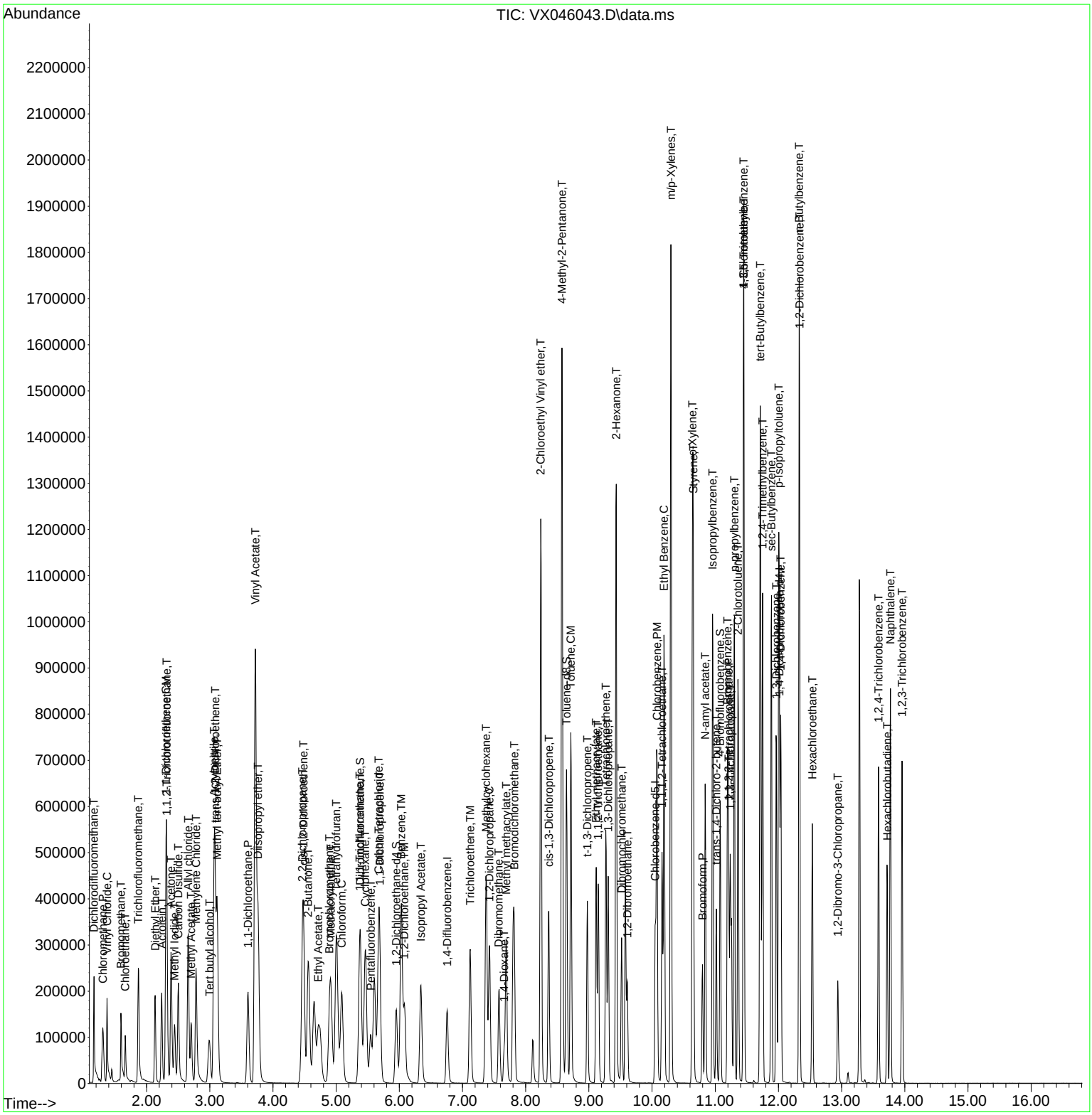
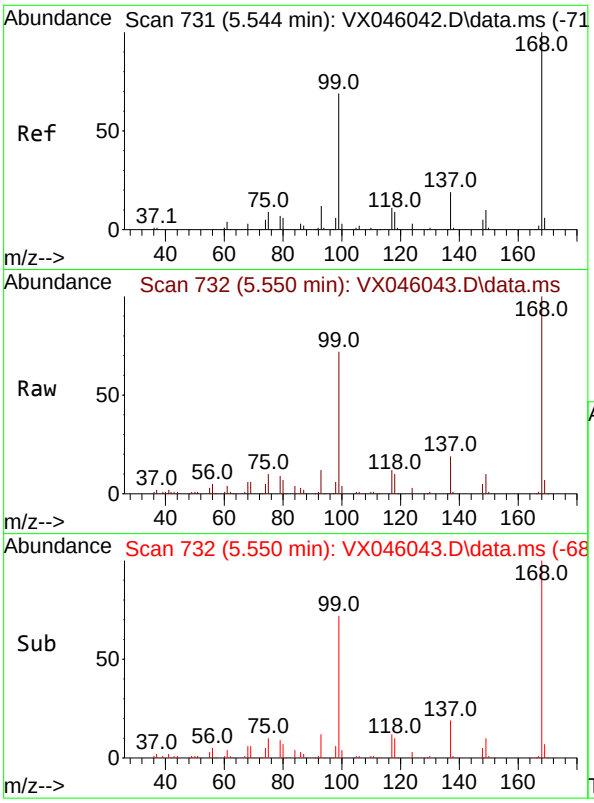
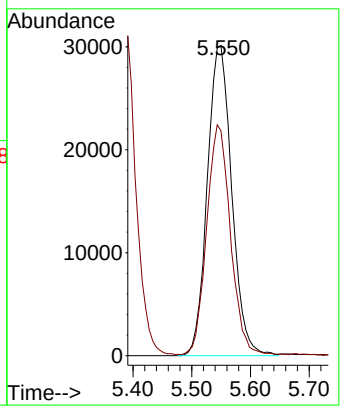




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion:168 Resp: 8702

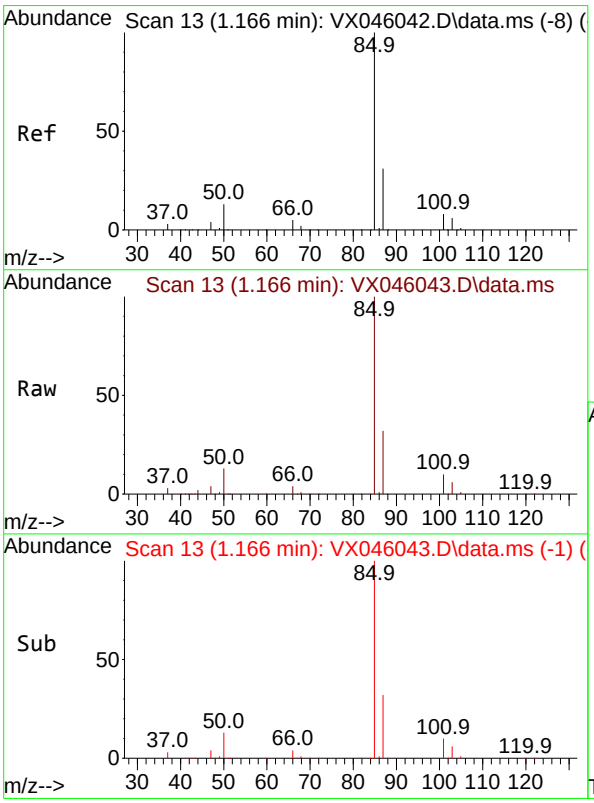
Ion	Ratio	Lower	Upper
168	100		
99	72.1	54.9	82.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

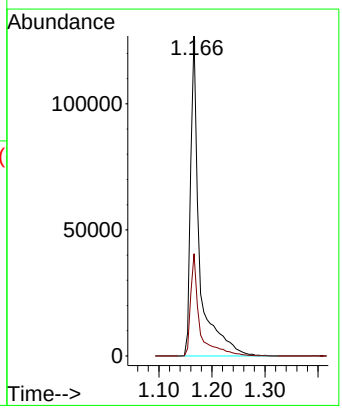
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

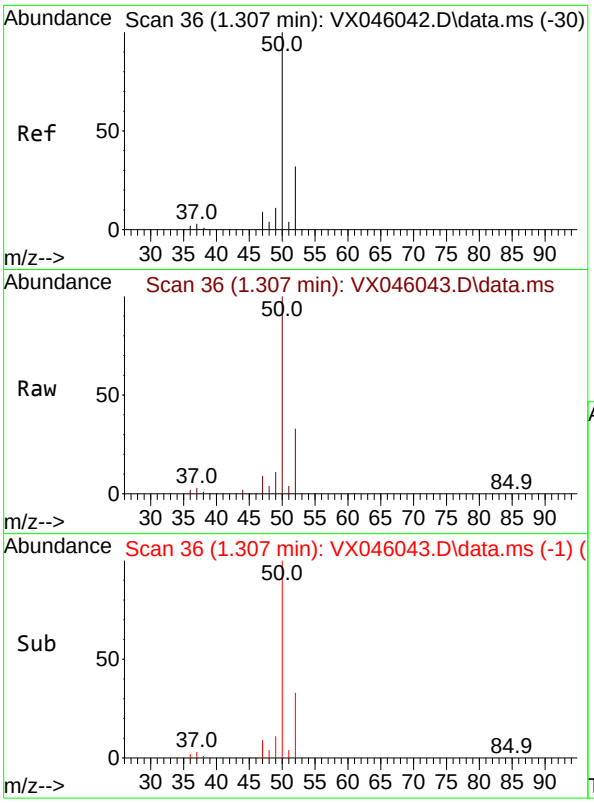


#2
Dichlorodifluoromethane
Concen: 77.828 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 85 Resp: 149508

Ion	Ratio	Lower	Upper
85	100		
87	32.0	15.7	47.1





#3
Chloromethane
Concen: 72.392 ug/l
RT: 1.307 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

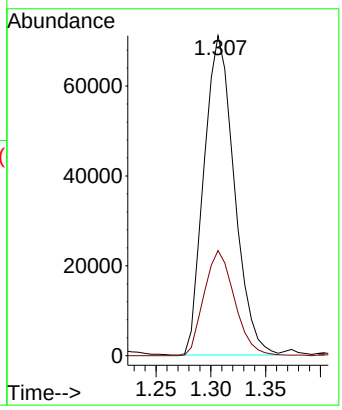
Tgt Ion: 50 Resp: 13693

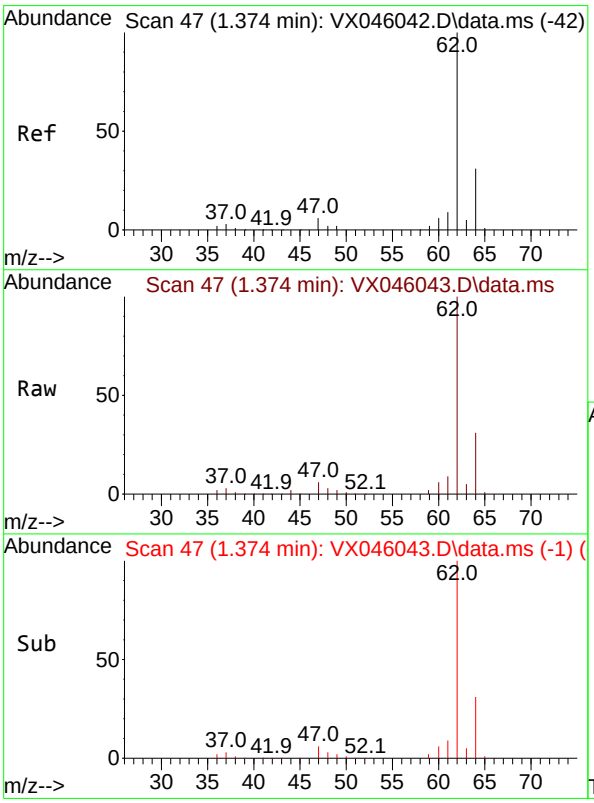
Ion	Ratio	Lower	Upper
50	100		
52	32.9	25.4	38.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

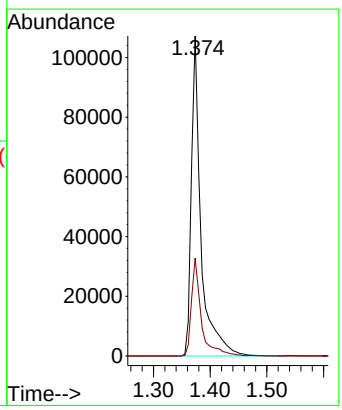


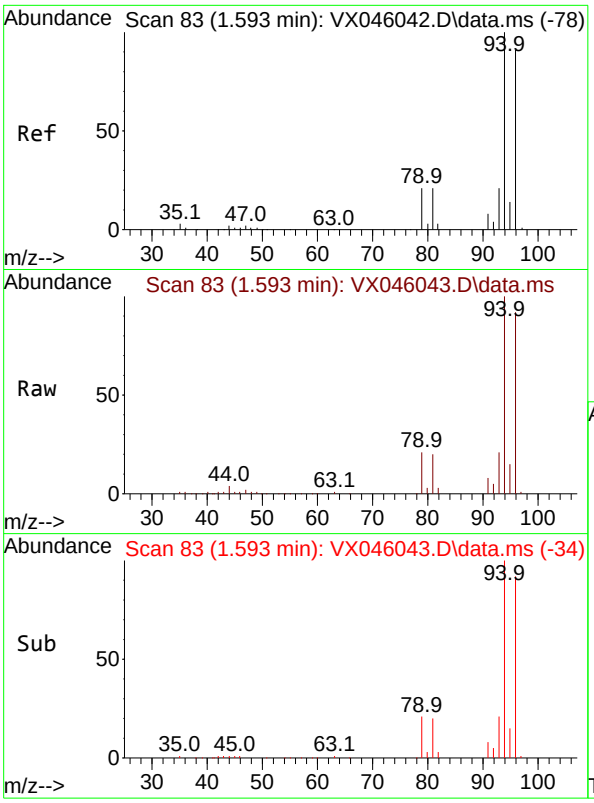


#4
Vinyl Chloride
Concen: 76.398 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 62 Resp: 126609

Ion	Ratio	Lower	Upper
62	100		
64	30.6	25.2	37.8

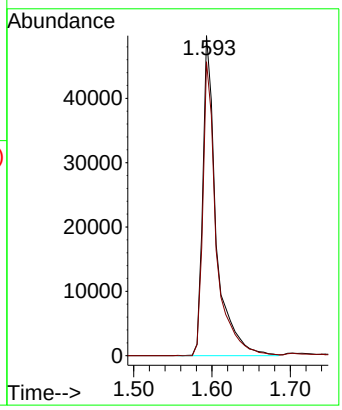




#5
Bromomethane
Concen: 70.507 ug/l
RT: 1.593 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 94 Resp: 5924

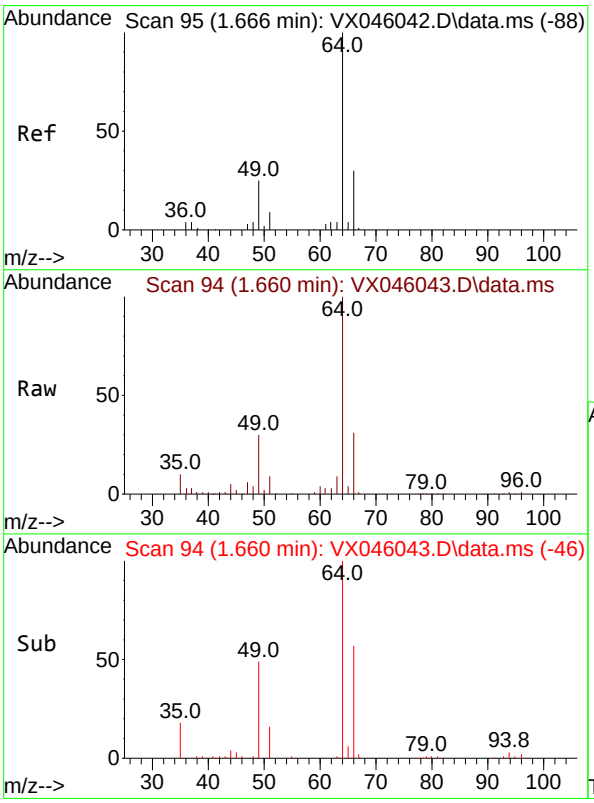
Ion	Ratio	Lower	Upper
94	100		
96	91.7	72.8	109.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

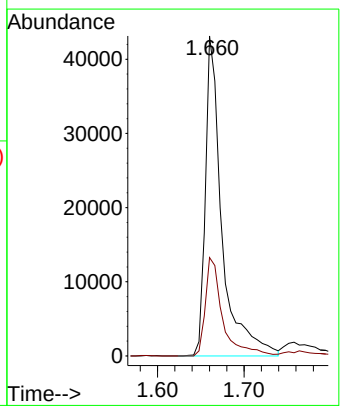
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

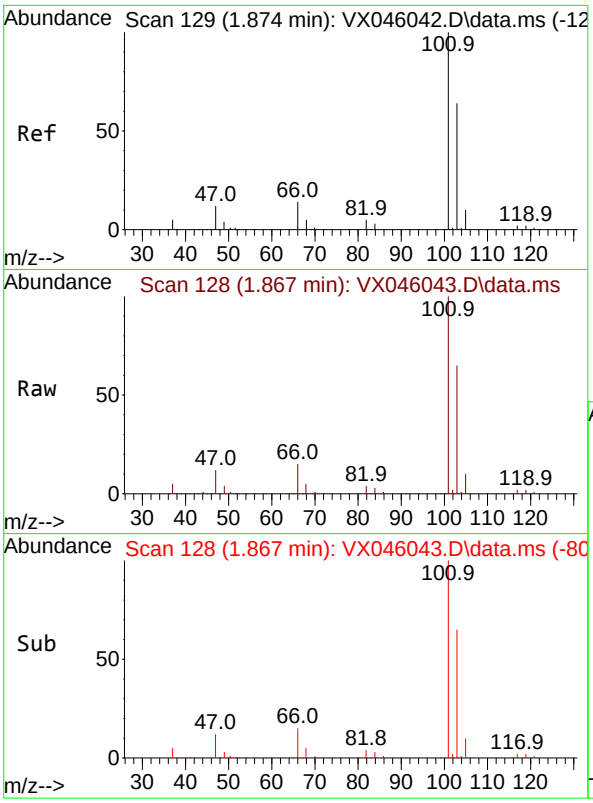


#6
Chloroethane
Concen: 67.148 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.006 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 64 Resp: 57332

Ion	Ratio	Lower	Upper
64	100		
66	30.8	24.3	36.5

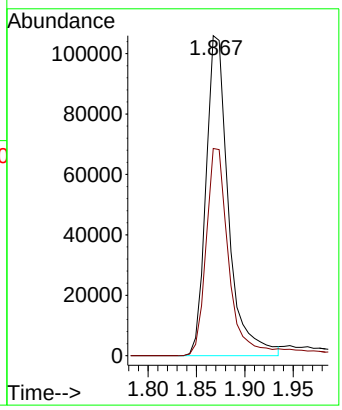




#7
Trichlorofluoromethane
Concen: 67.754 ug/l
RT: 1.867 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion:101 Resp: 17104

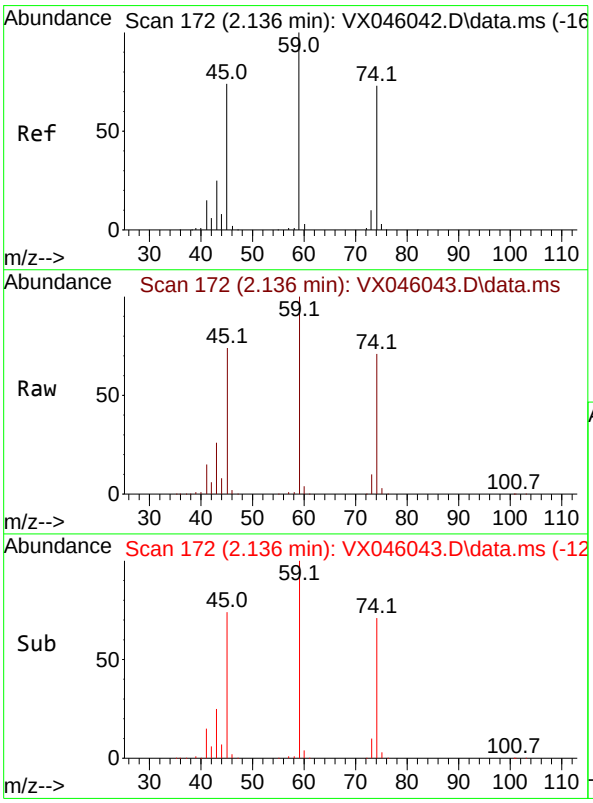
Ion	Ratio	Lower	Upper
101	100		
103	64.8	51.0	76.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

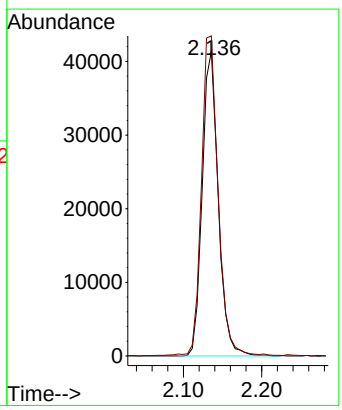
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

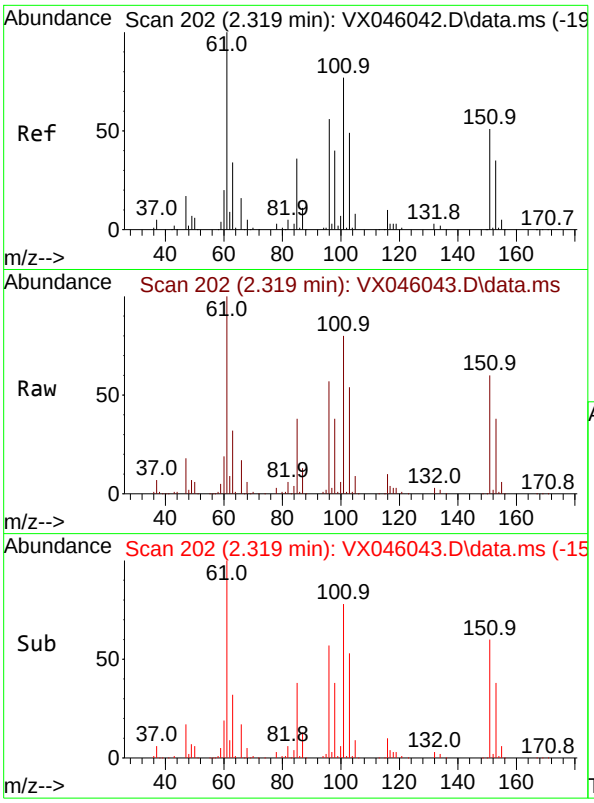


#8
Diethyl Ether
Concen: 70.807 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 74 Resp: 58762

Ion	Ratio	Lower	Upper
74	100		
45	110.1	54.9	164.8

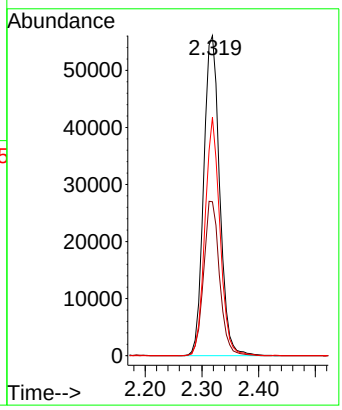




#9
1,1,2-Trichlorotrifluoroethane
Concen: 72.604 ug/l
RT: 2.319 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion:101 Resp: 10952

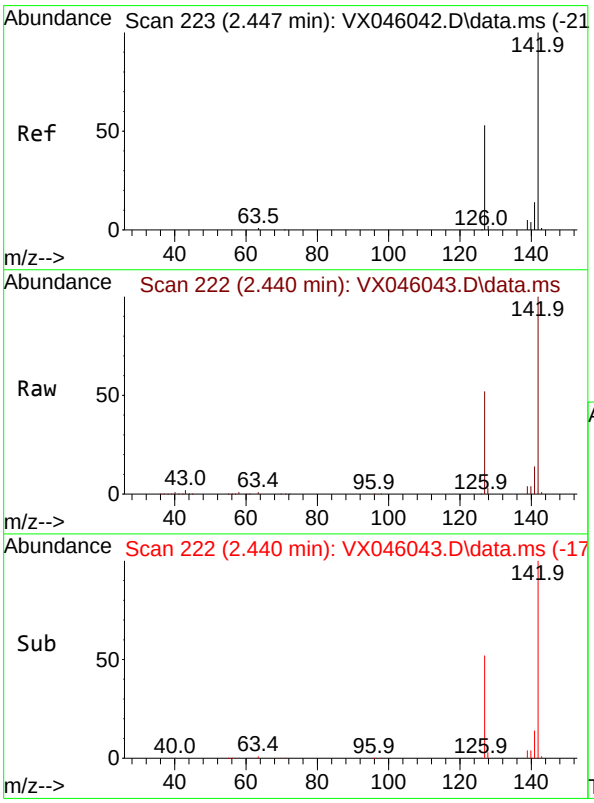
Ion	Ratio	Lower	Upper
101	100		
85	48.1	38.6	58.0
151	69.9	55.2	82.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

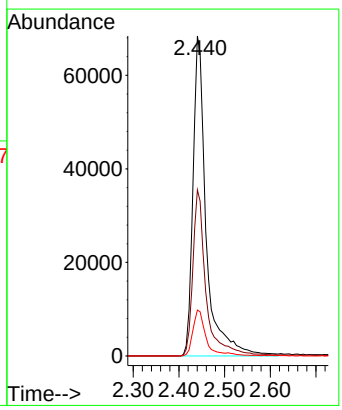
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

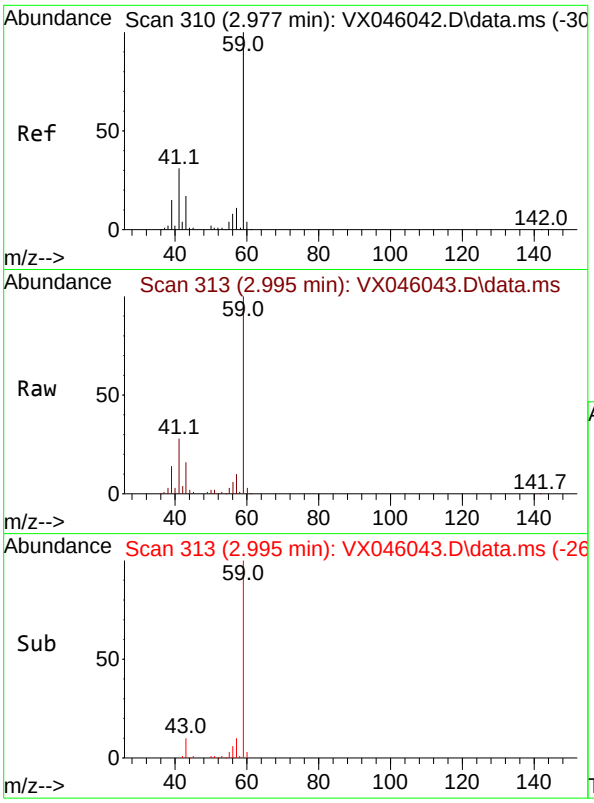


#10
Methyl Iodide
Concen: 77.943 ug/l
RT: 2.440 min Scan# 222
Delta R.T. -0.006 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion:142 Resp: 138045

Ion	Ratio	Lower	Upper
142	100		
127	52.0	41.7	62.5
141	14.5	11.5	17.3





#11
Tert butyl alcohol
Concen: 405.394 ug/l
RT: 2.995 min Scan# 3
Delta R.T. 0.018 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

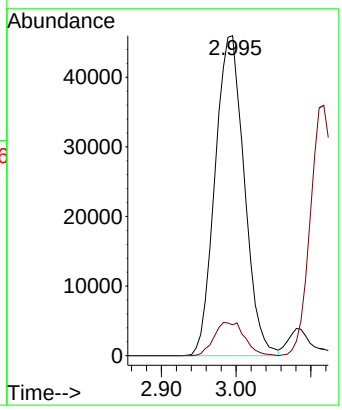
Tgt Ion: 59 Resp: 12509

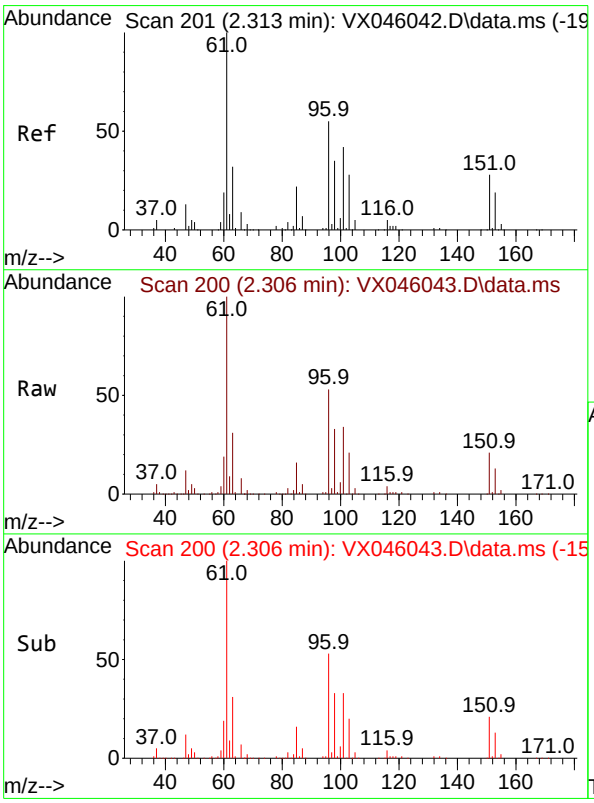
Ion	Ratio	Lower	Upper
59	100		
57	10.9	8.6	12.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

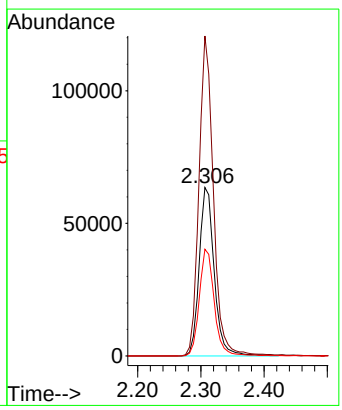


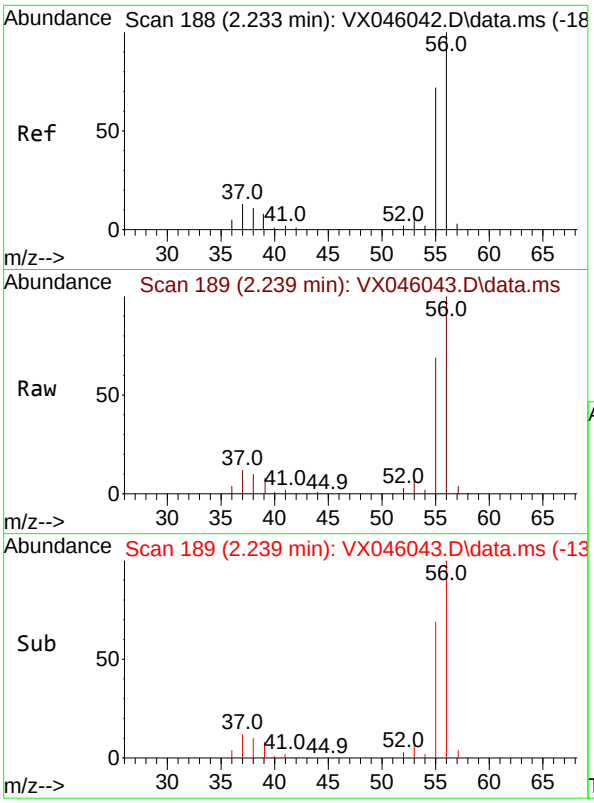


#12
1,1-Dichloroethene
Concen: 71.884 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.006 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 96 Resp: 105566

Ion	Ratio	Lower	Upper
96	100		
61	189.9	146.2	219.2
98	63.3	51.0	76.6

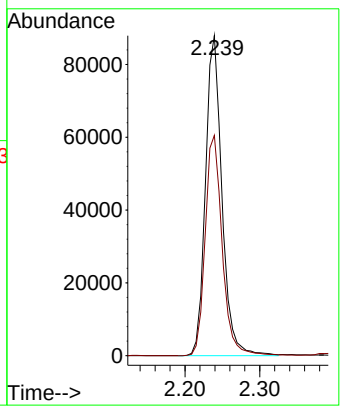




#13
Acrolein
Concen: 375.132 ug/l
RT: 2.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 56 Resp: 13445

Ion	Ratio	Lower	Upper
56	100		
55	71.3	56.2	84.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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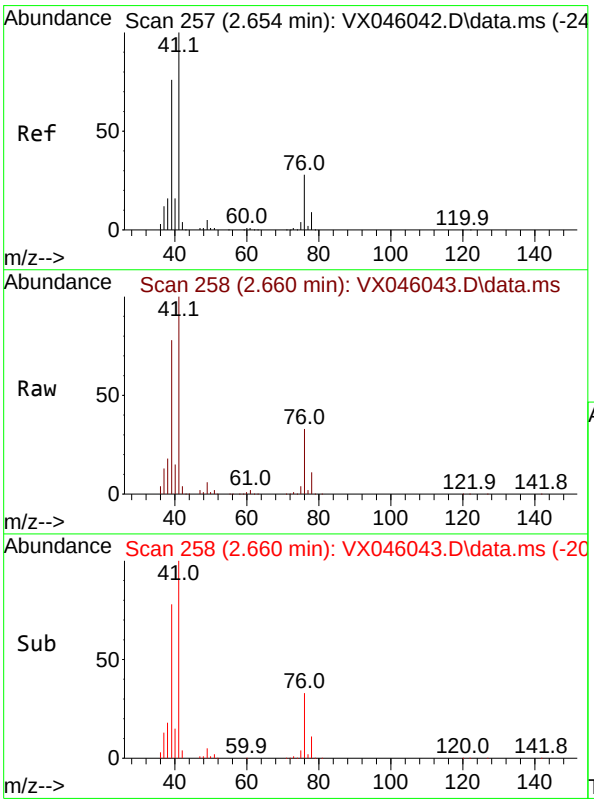
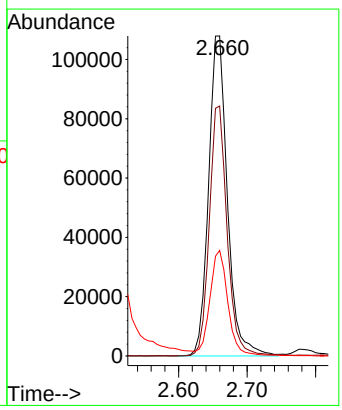
Supervised By :Mahesh Dadoda 05/06/2025

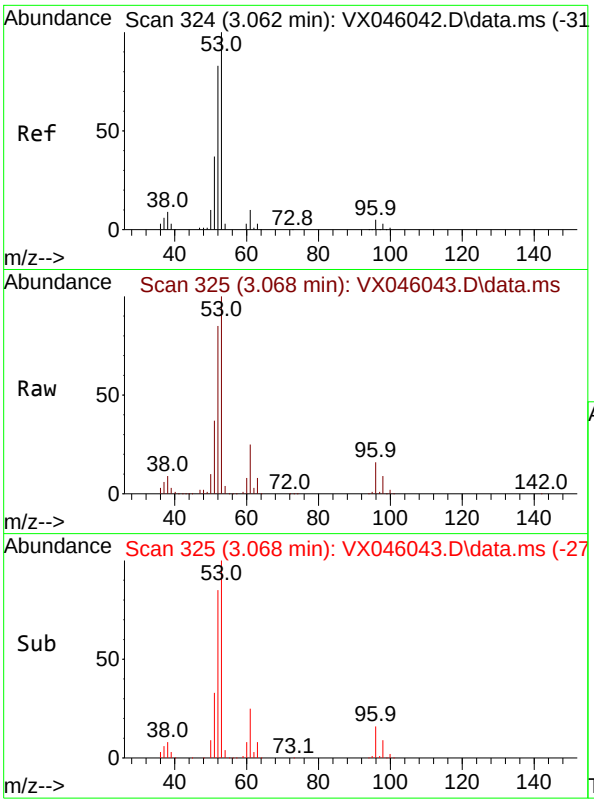


#14
Allyl chloride
Concen: 74.419 ug/l
RT: 2.660 min Scan# 258
Delta R.T. 0.006 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 41 Resp: 206519

Ion	Ratio	Lower	Upper
41	100		
39	73.8	60.6	90.8
76	31.4	24.9	37.3

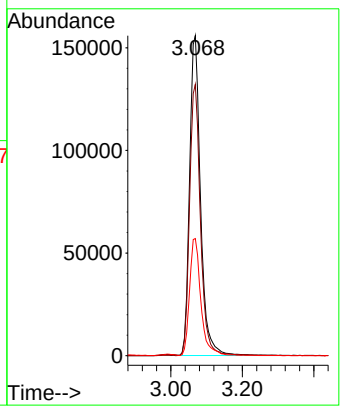




#15
Acrylonitrile
Concen: 358.723 ug/l
RT: 3.068 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 53 Resp: 33114

Ion	Ratio	Lower	Upper
53	100		
52	84.7	65.3	97.9
51	37.9	29.8	44.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

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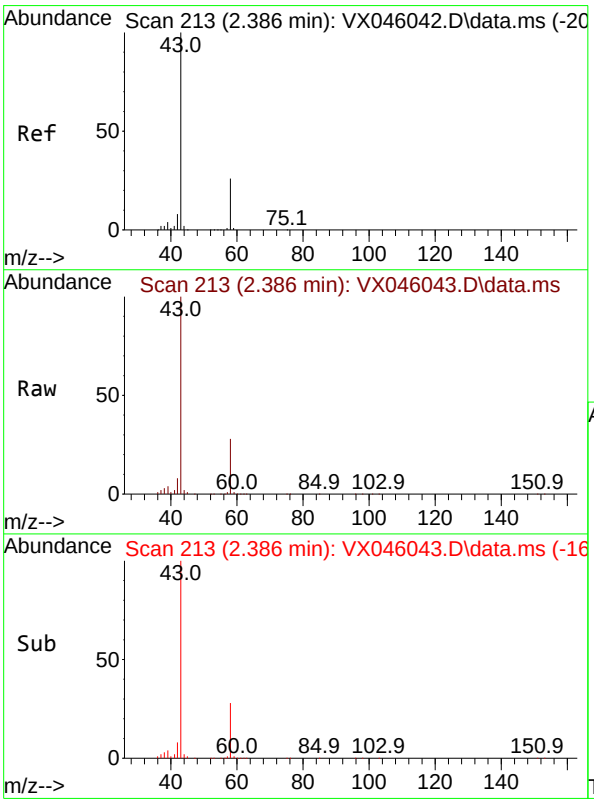
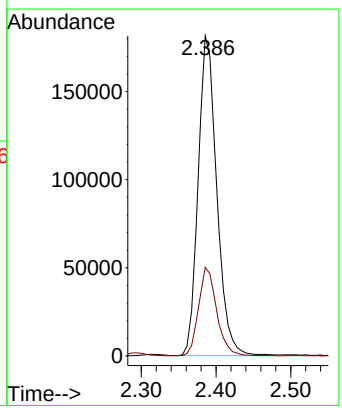
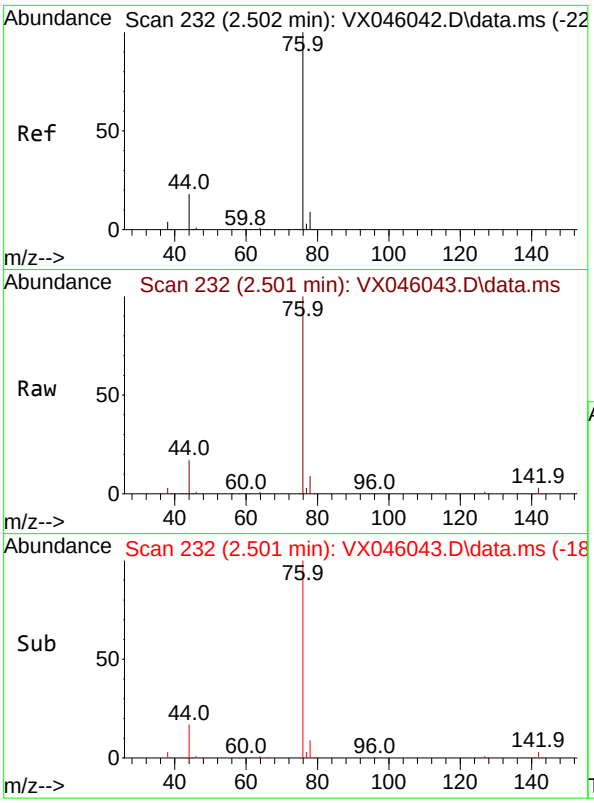


#16
Acetone
Concen: 354.936 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 43 Resp: 314383

Ion	Ratio	Lower	Upper
43	100		
58	27.6	21.2	31.8

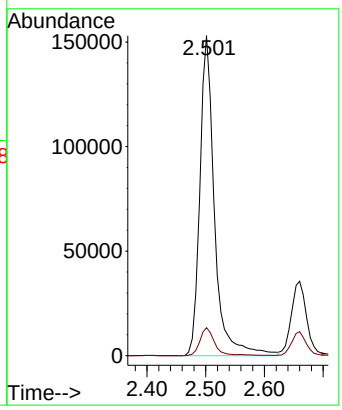




#17
Carbon Disulfide
Concen: 77.867 ug/l
RT: 2.501 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 76 Resp: 26495

Ion	Ratio	Lower	Upper
76	100		
78	8.7	7.0	10.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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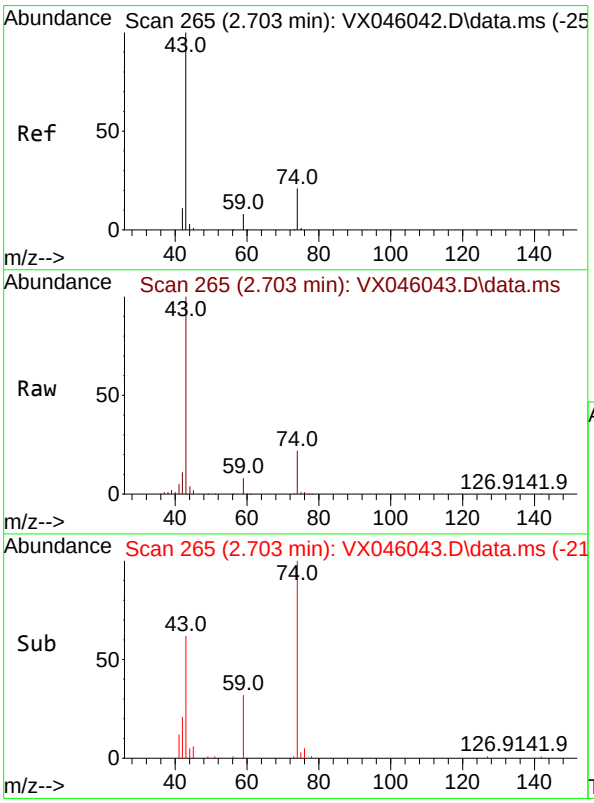
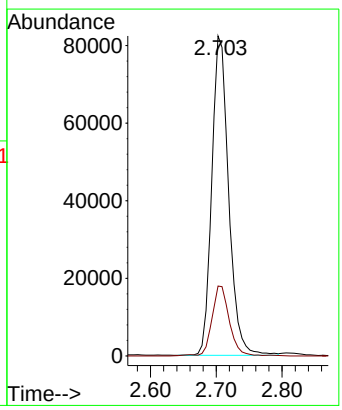
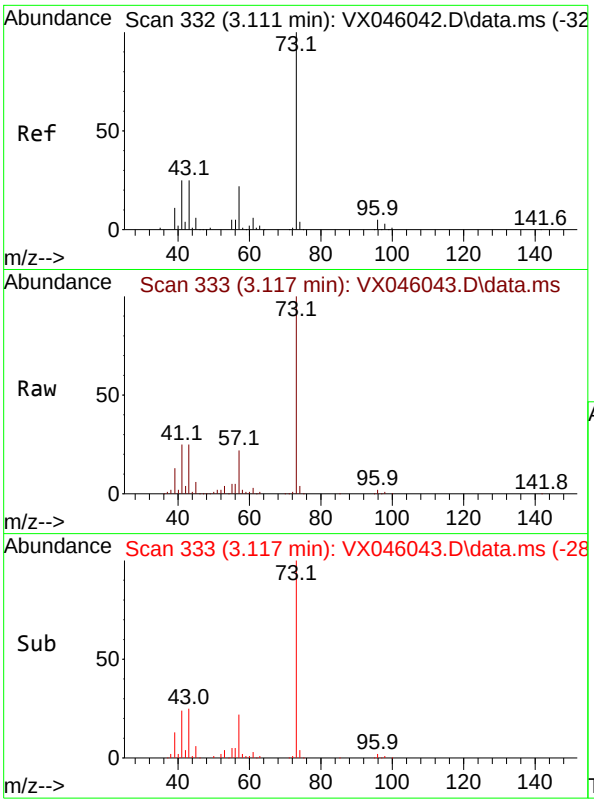


#18
Methyl Acetate
Concen: 69.531 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 43 Resp: 147014

Ion	Ratio	Lower	Upper
43	100		
74	22.6	16.7	25.1

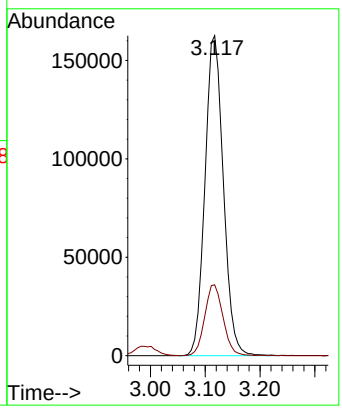




#19
Methyl tert-butyl Ether
Concen: 73.818 ug/l
RT: 3.117 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 73 Resp: 37811

Ion	Ratio	Lower	Upper
73	100		
57	22.1	17.7	26.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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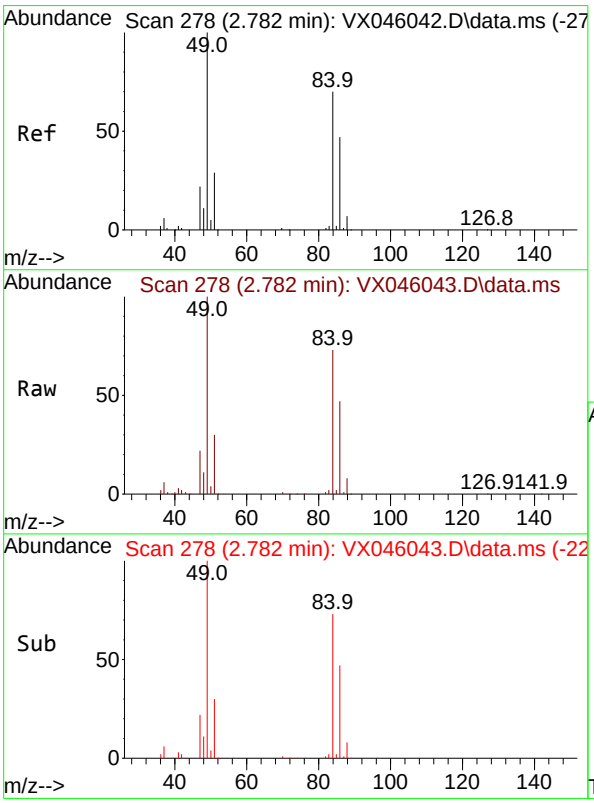
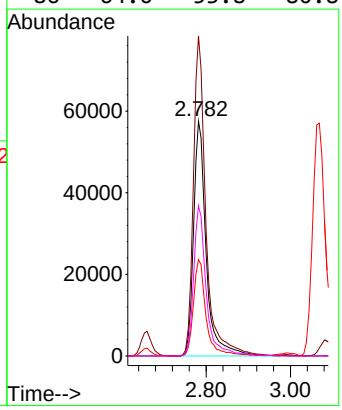
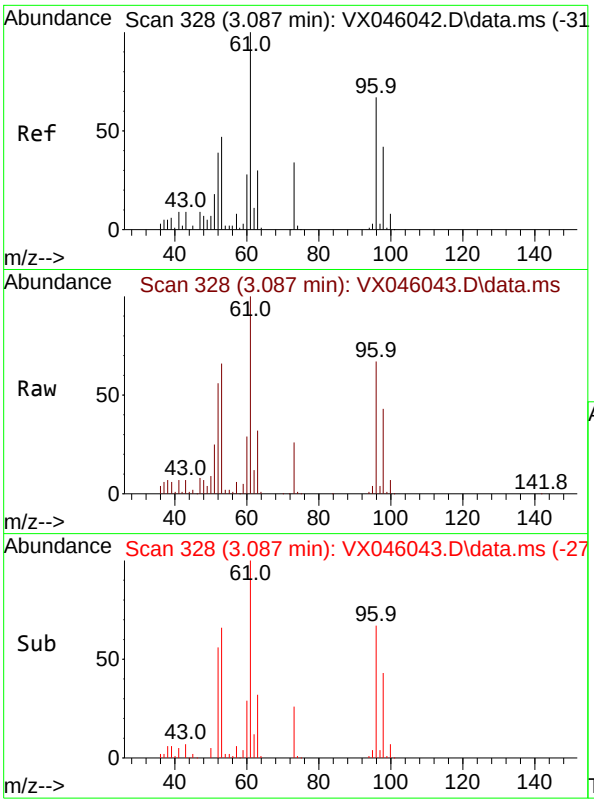


#20
Methylene Chloride
Concen: 67.030 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 84 Resp: 120270

Ion	Ratio	Lower	Upper
84	100		
49	136.4	113.9	170.9
51	41.1	33.5	50.3
86	64.0	53.8	80.8

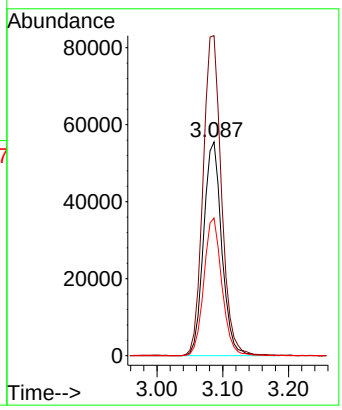




#21
trans-1,2-Dichloroethene
Concen: 71.109 ug/l
RT: 3.087 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 96 Resp: 10660

Ion	Ratio	Lower	Upper
96	100		
61	149.7	119.5	179.3
98	64.4	50.0	75.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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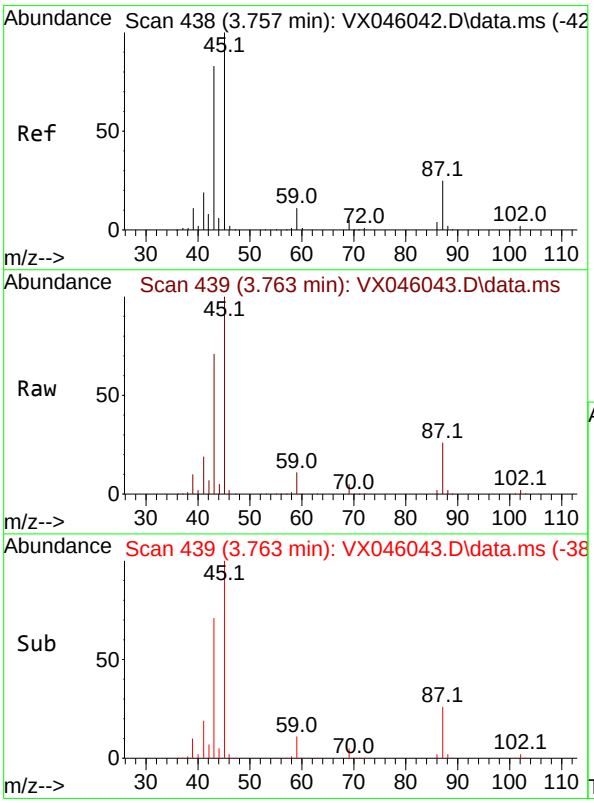
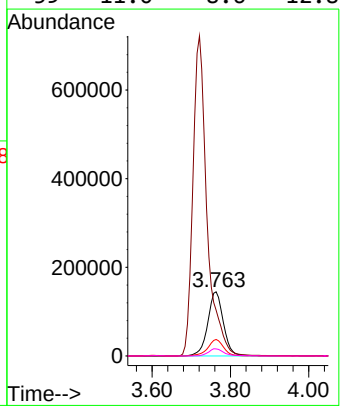
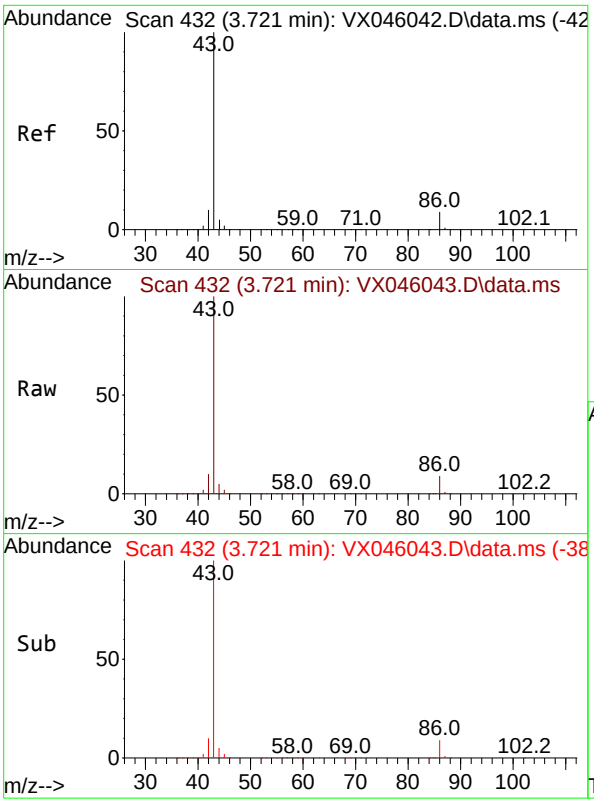


#22
Diisopropyl ether
Concen: 77.048 ug/l
RT: 3.763 min Scan# 439
Delta R.T. 0.006 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 45 Resp: 399494

Ion	Ratio	Lower	Upper
45	100		
43	71.2	66.6	100.0
87	25.7	19.8	29.6
59	11.0	8.6	12.8

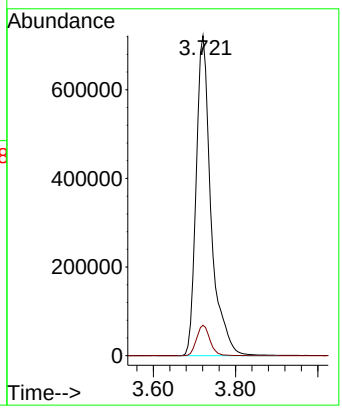




#23
Vinyl Acetate
Concen: 395.363 ug/l
RT: 3.721 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 43 Resp: 181155

Ion	Ratio	Lower	Upper
43	100		
86	9.5	7.5	11.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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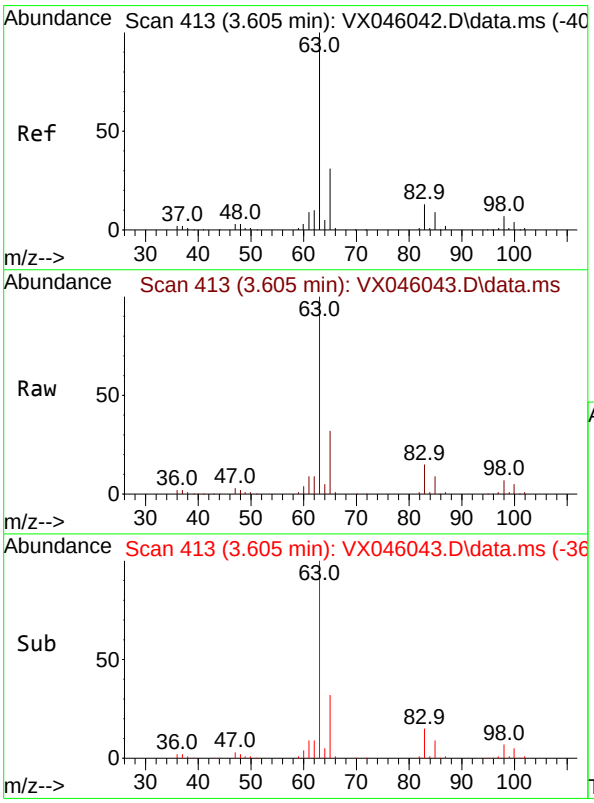
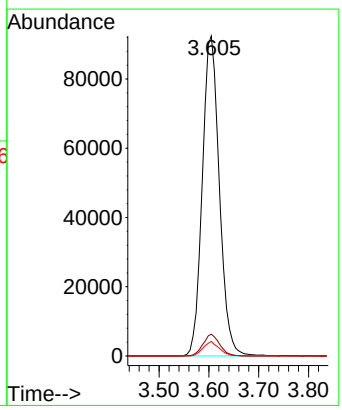
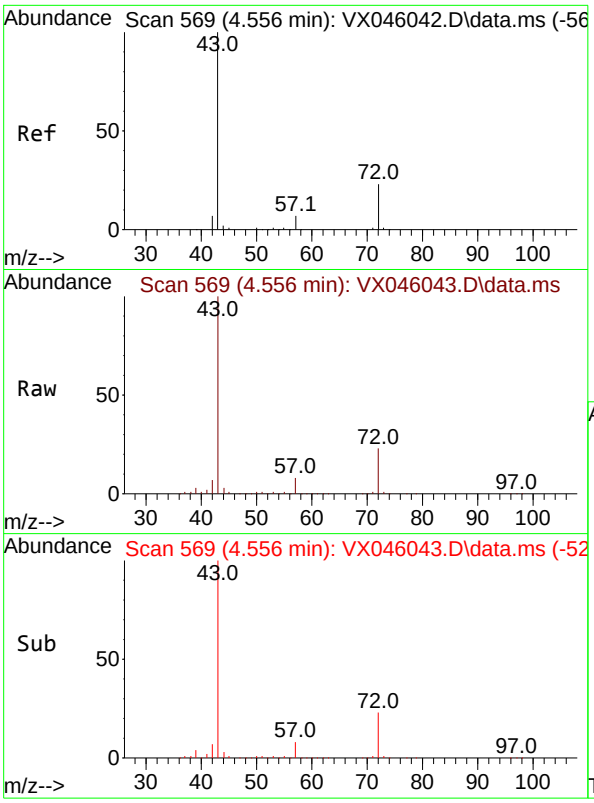


#24
1,1-Dichloroethane
Concen: 72.114 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 63 Resp: 219759

Ion	Ratio	Lower	Upper
63	100		
98	6.8	3.6	10.8
100	4.5	2.1	6.3

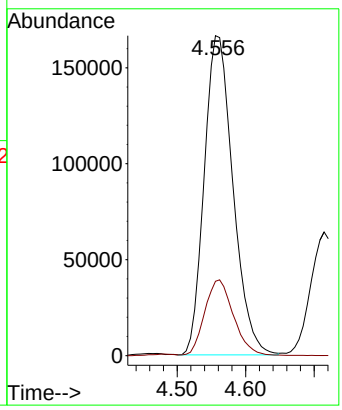




#25
2-Butanone
Concen: 379.704 ug/l
RT: 4.556 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 43 Resp: 48544

Ion	Ratio	Lower	Upper
43	100		
72	23.1	18.4	27.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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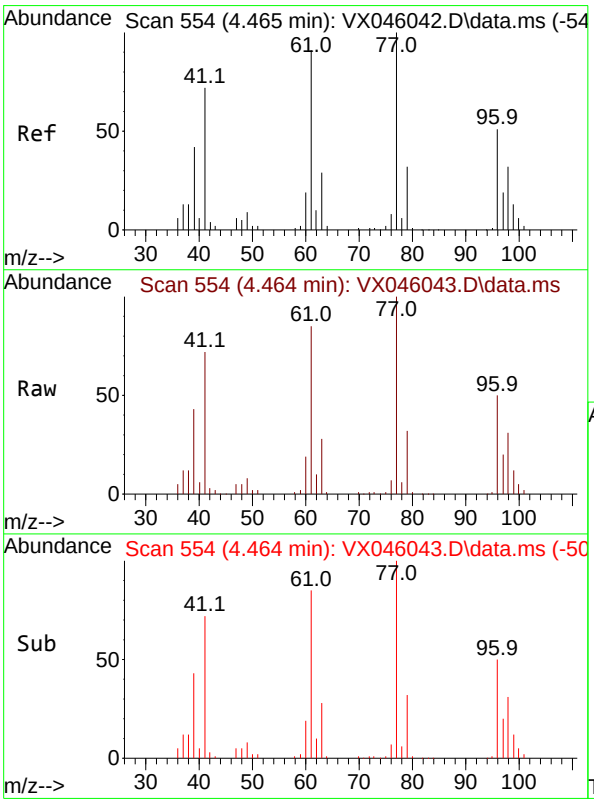
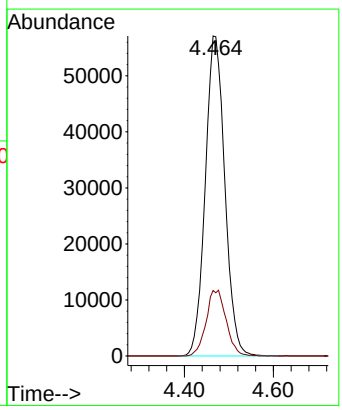
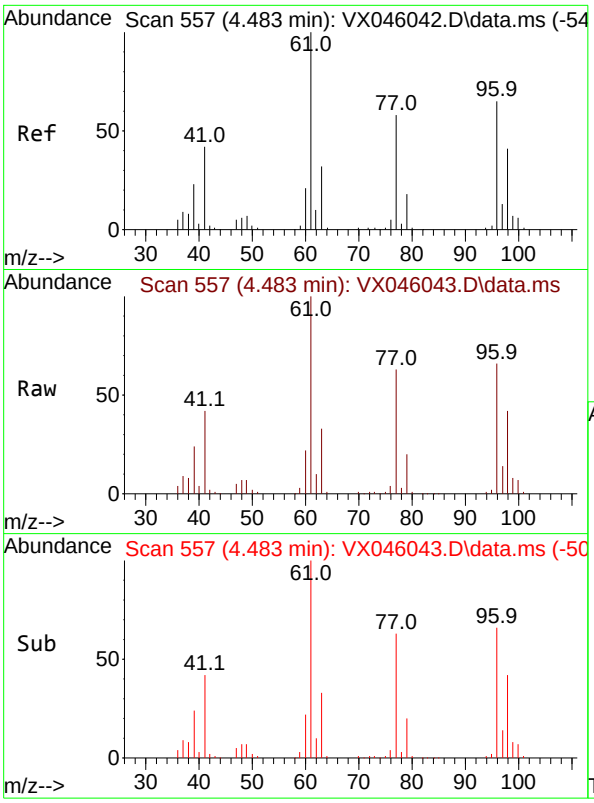


#26
2,2-Dichloropropane
Concen: 75.621 ug/l
RT: 4.464 min Scan# 554
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 77 Resp: 174579

Ion	Ratio	Lower	Upper
77	100		
97	21.1	10.5	31.5

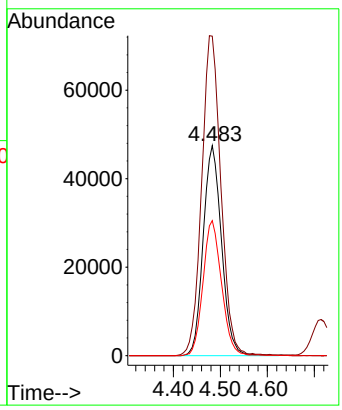




#27
cis-1,2-Dichloroethene
Concen: 71.056 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 96 Resp: 12845

Ion	Ratio	Lower	Upper
96	100		
61	160.1	0.0	322.8
98	64.9	0.0	129.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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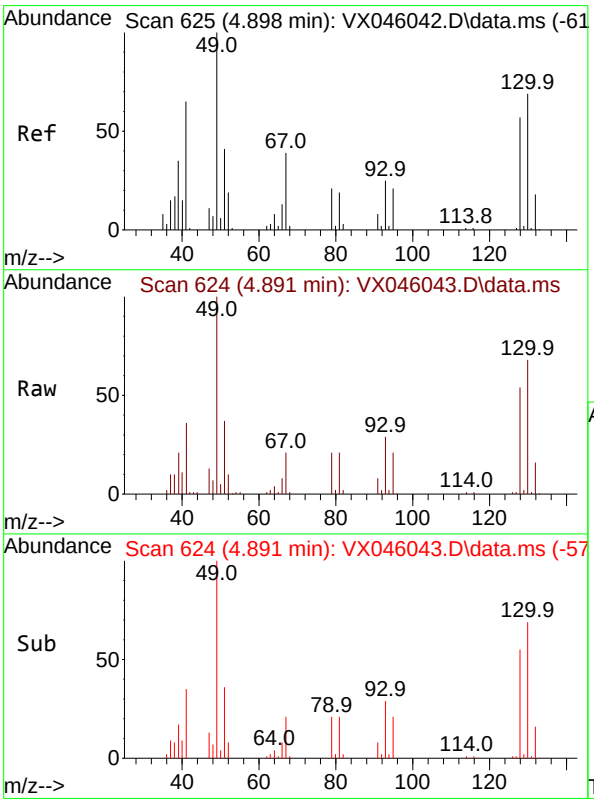
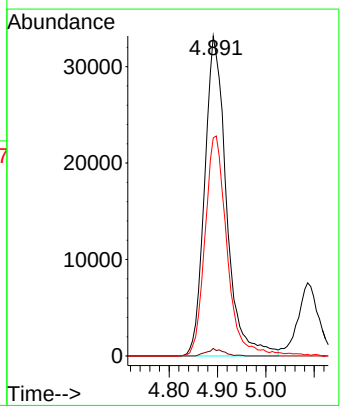
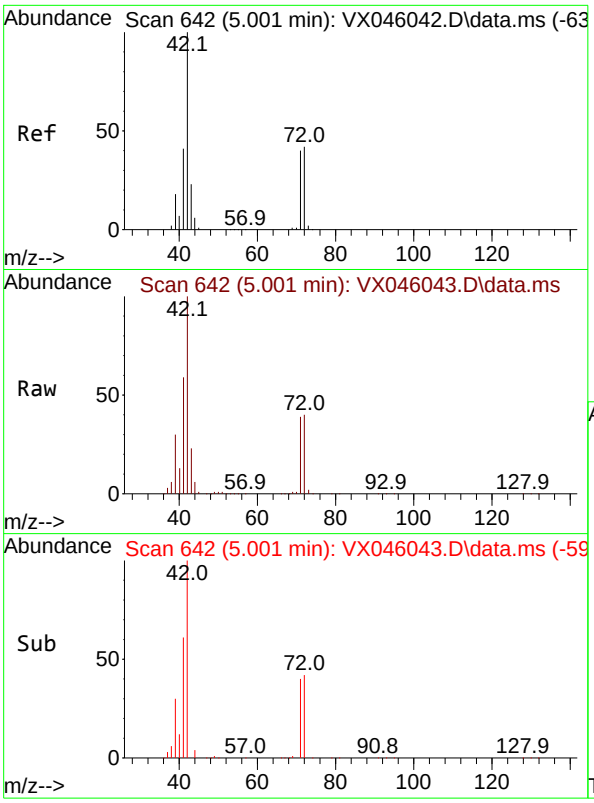


#28
Bromochloromethane
Concen: 63.932 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 49 Resp: 103602

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	4.0
130	70.1	56.2	84.2





#29
Tetrahydrofuran
Concen: 368.234 ug/l
RT: 5.001 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 42 Resp: 30575

Ion	Ratio	Lower	Upper
42	100		
72	42.1	33.7	50.5
71	38.7	31.4	47.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
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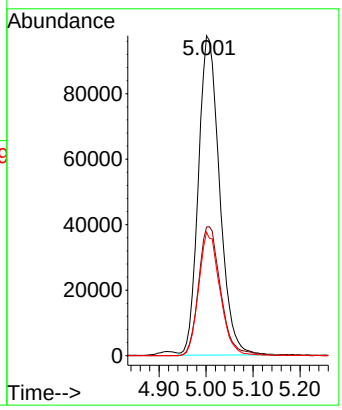
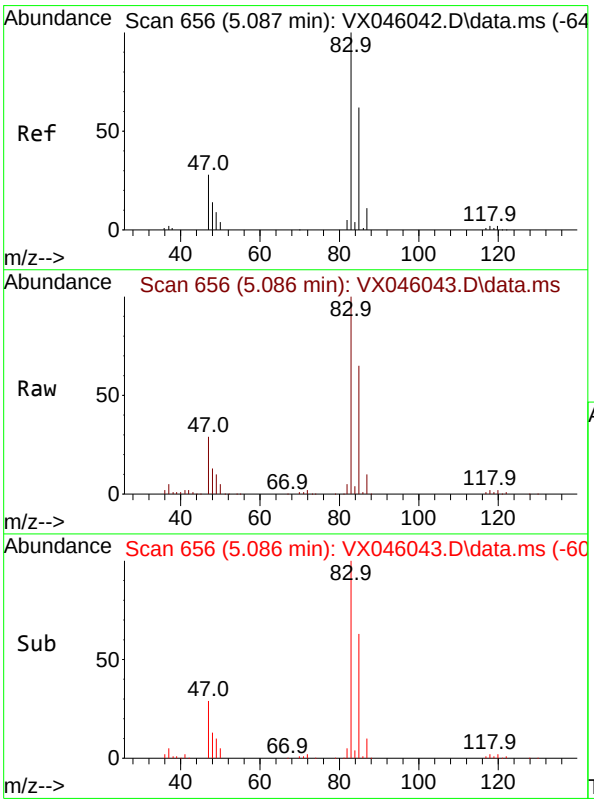
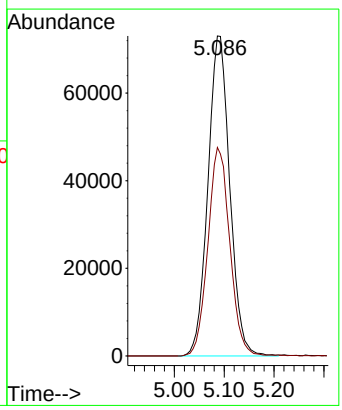


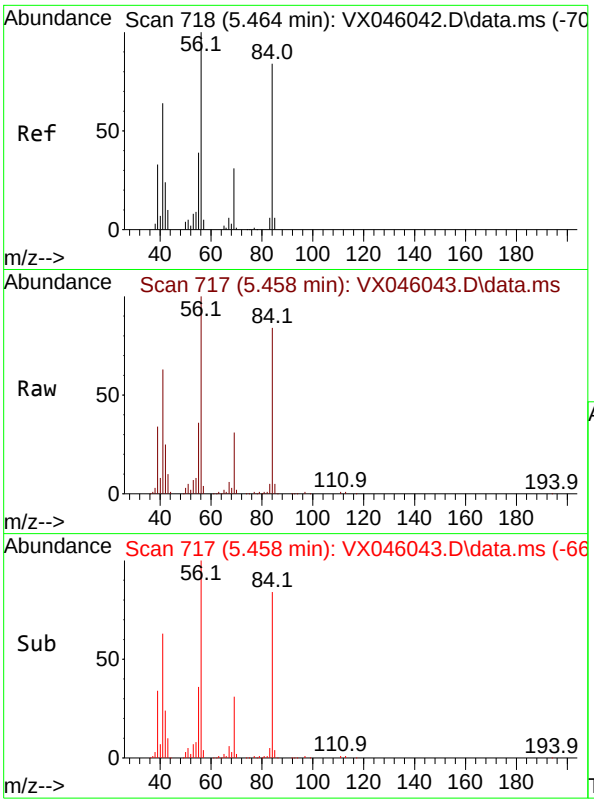


#30
Chloroform
Concen: 70.180 ug/l
RT: 5.086 min Scan# 656
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 83 Resp: 222253

Ion	Ratio	Lower	Upper
83	100		
85	65.1	49.3	73.9

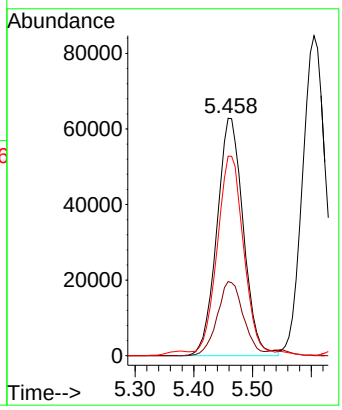




#31
Cyclohexane
Concen: 76.428 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 56 Resp: 19630

Ion	Ratio	Lower	Upper
56	100		
69	31.2	24.4	36.6
84	82.3	66.9	100.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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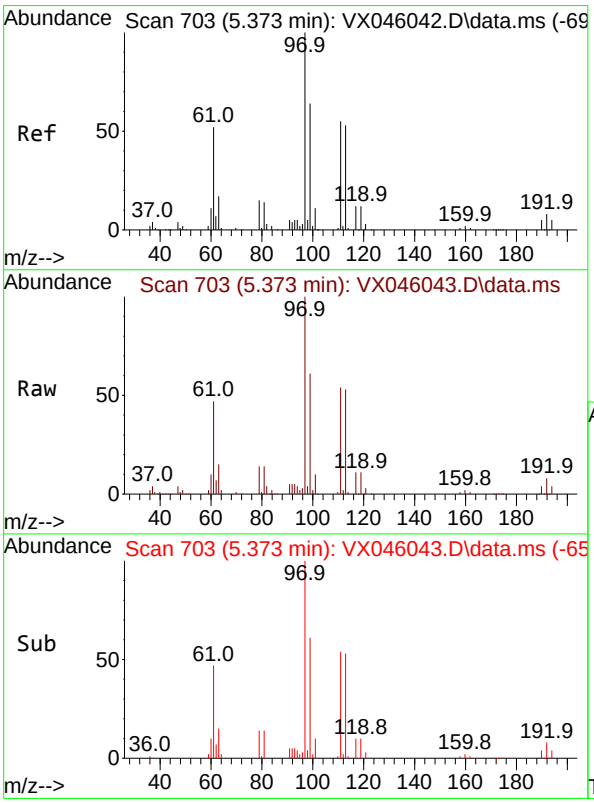
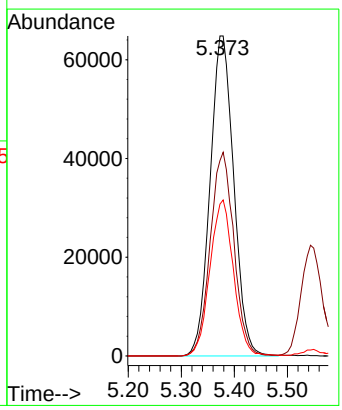
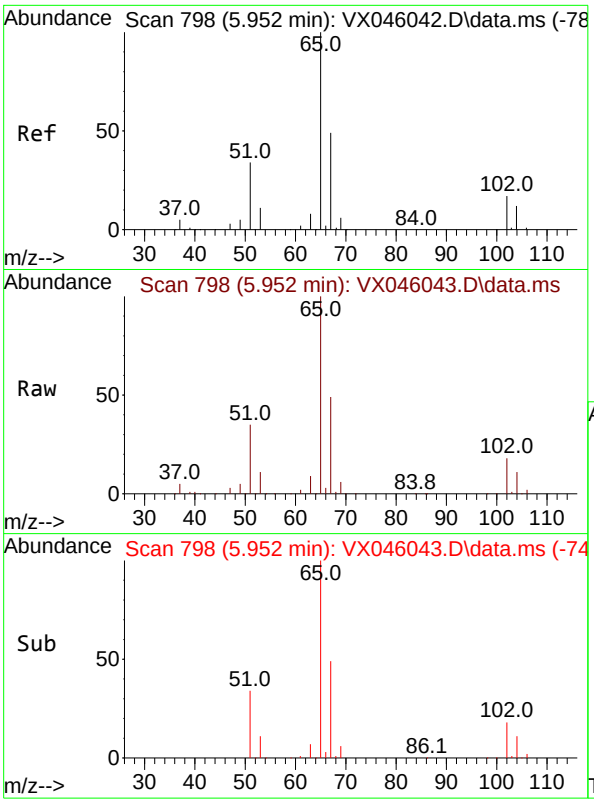


#32
1,1,1-Trichloroethane
Concen: 73.635 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 97 Resp: 201112

Ion	Ratio	Lower	Upper
97	100		
99	63.8	51.8	77.6
61	48.7	40.1	60.1

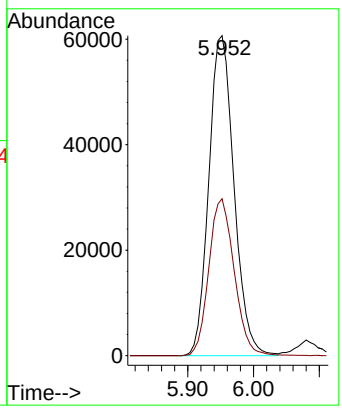




#33
1,2-Dichloroethane-d4
Concen: 62.526 ug/l
RT: 5.952 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 65 Resp: 16187

Ion	Ratio	Lower	Upper
65	100		
67	49.5	0.0	99.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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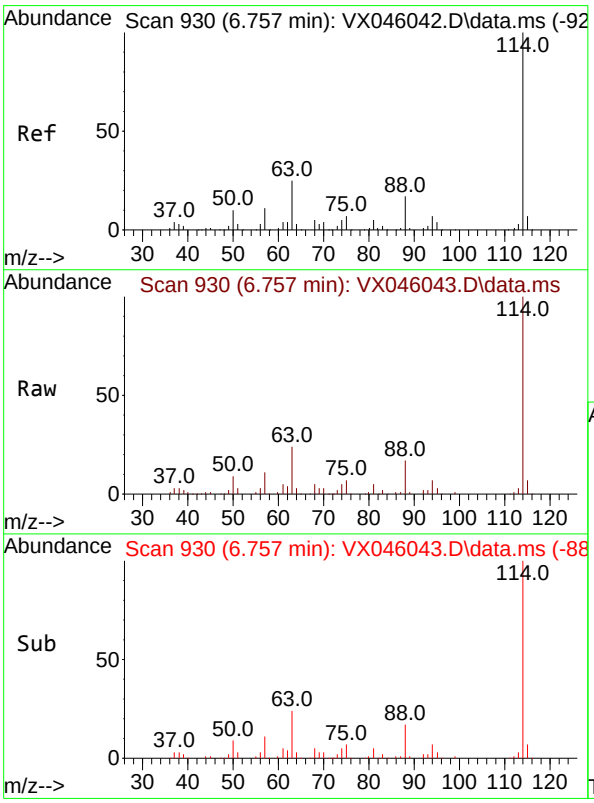
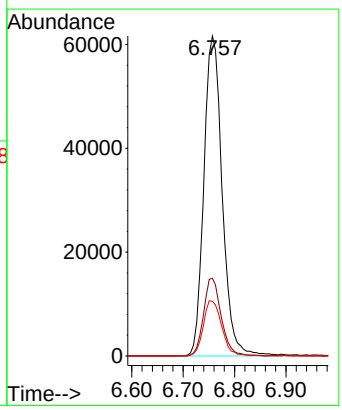
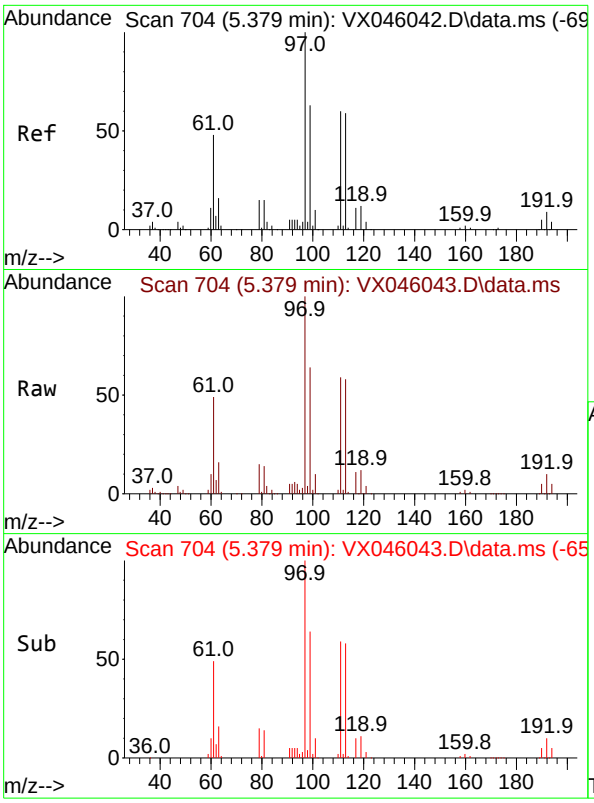


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion:114 Resp: 152958

Ion	Ratio	Lower	Upper
114	100		
63	24.3	0.0	49.2
88	17.1	0.0	33.6

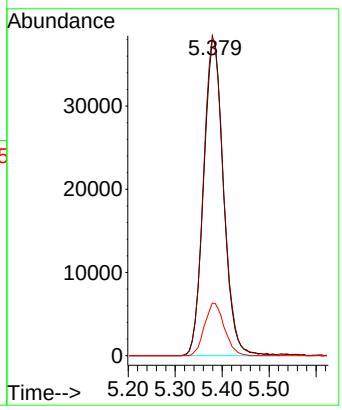




#35
Dibromofluoromethane
Concen: 65.006 ug/l
RT: 5.379 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion:113 Resp: 11145

Ion	Ratio	Lower	Upper
113	100		
111	101.7	83.1	124.7
192	16.6	13.3	19.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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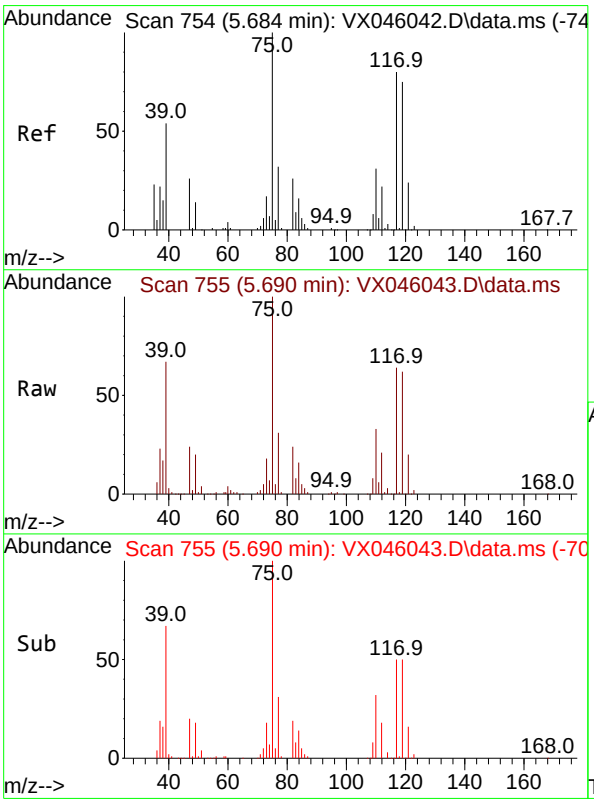
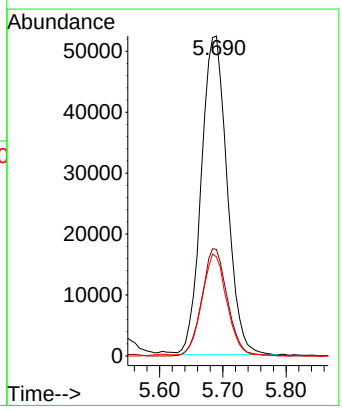
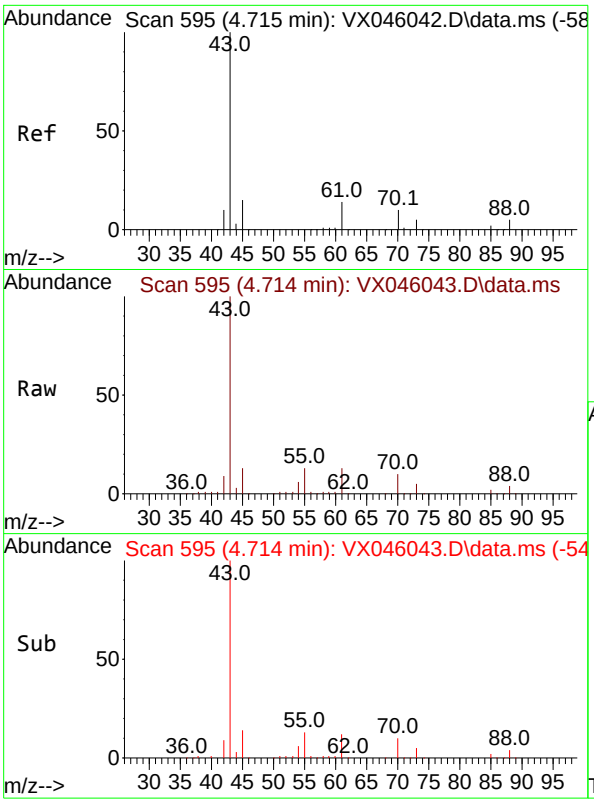


#36
1,1-Dichloropropene
Concen: 74.285 ug/l
RT: 5.690 min Scan# 755
Delta R.T. 0.006 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 75 Resp: 147873

Ion	Ratio	Lower	Upper
75	100		
110	33.5	16.3	48.9
77	31.1	24.3	36.5

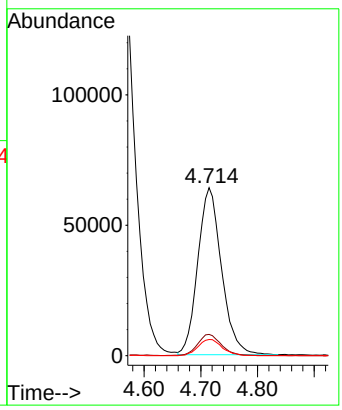




#37
Ethyl Acetate
Concen: 74.565 ug/l
RT: 4.714 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 43 Resp: 18621

Ion	Ratio	Lower	Upper
43	100		
61	12.4	10.3	15.5
70	9.9	7.9	11.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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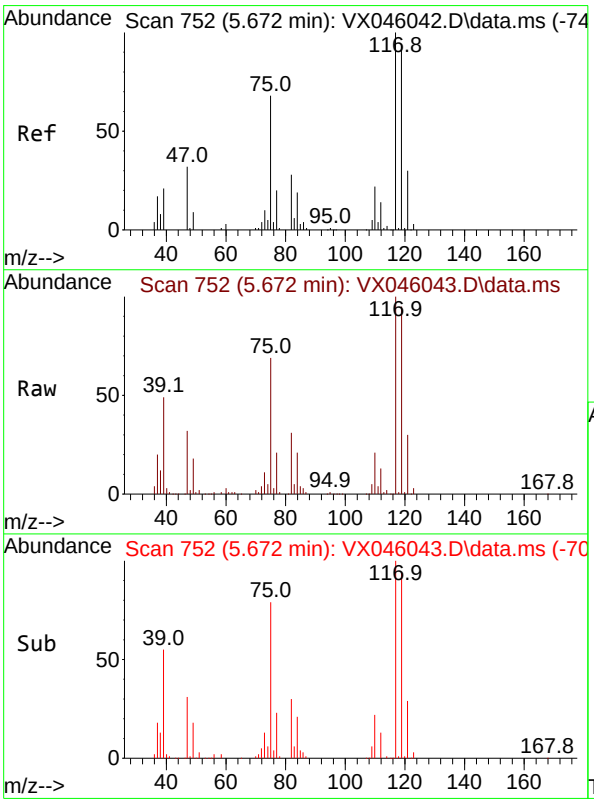
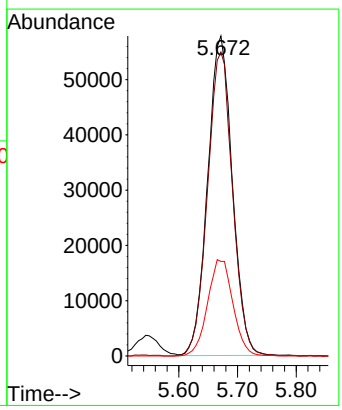
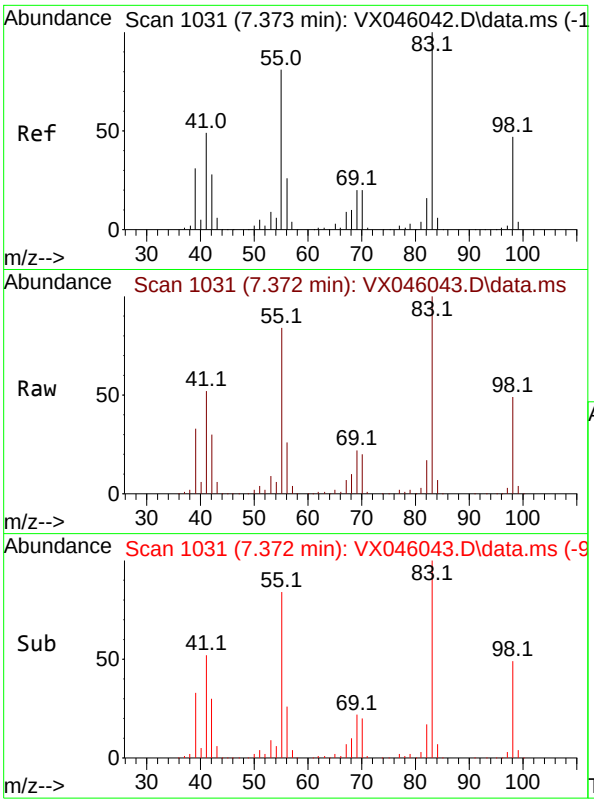


#38
Carbon Tetrachloride
Concen: 73.875 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion:117 Resp: 168946

Ion	Ratio	Lower	Upper
117	100		
119	95.0	75.2	112.8
121	29.6	24.2	36.4

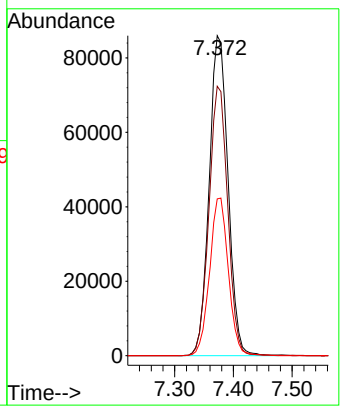




#39
Methylcyclohexane
Concen: 76.952 ug/l
RT: 7.372 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 83 Resp: 19194

Ion	Ratio	Lower	Upper
83	100		
55	84.2	64.7	97.1
98	49.0	37.4	56.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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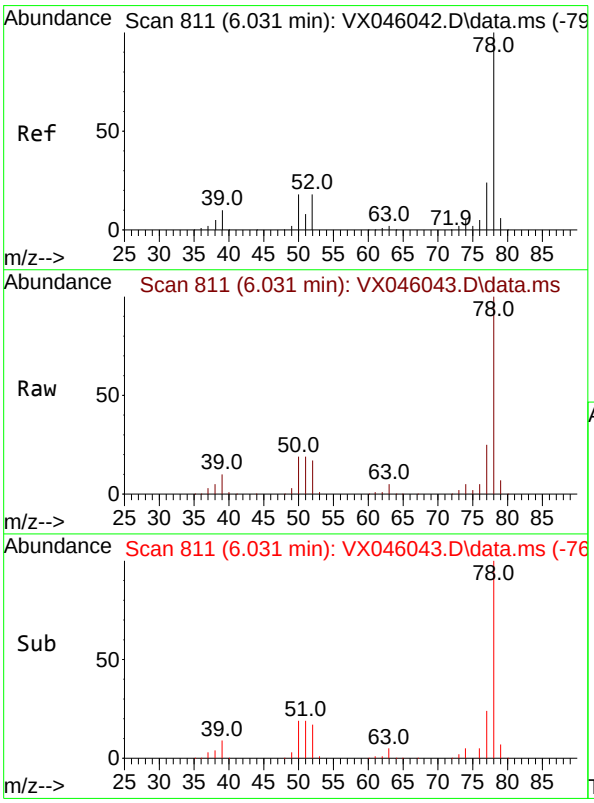
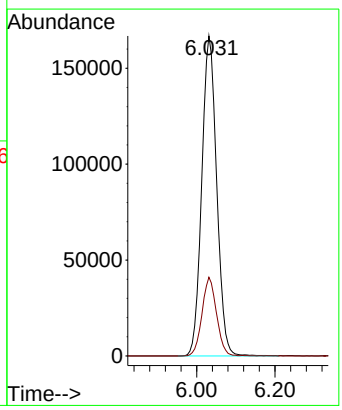
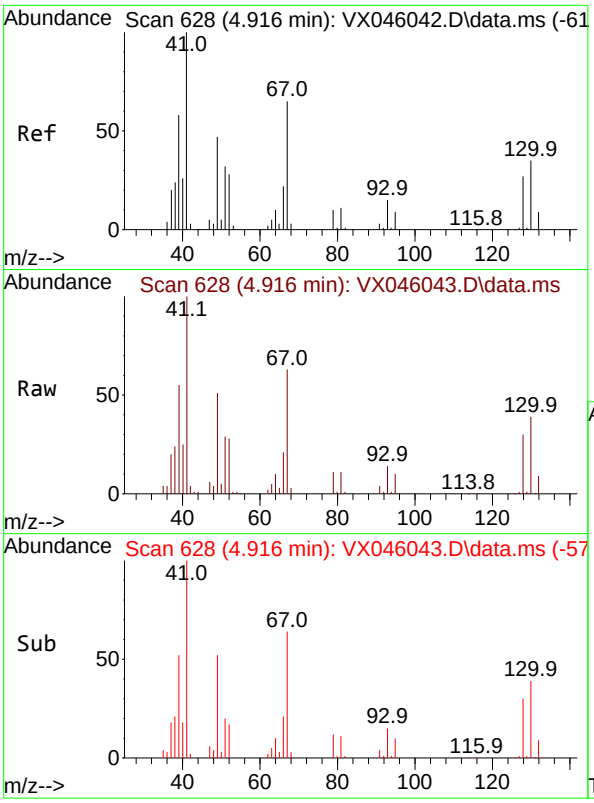


#40
Benzene
Concen: 71.457 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 78 Resp: 440885

Ion	Ratio	Lower	Upper
78	100		
77	24.6	19.0	28.4

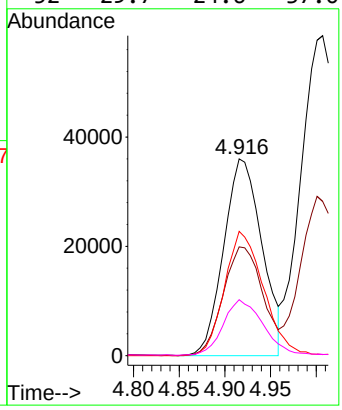




#41
Methacrylonitrile
Concen: 75.574 ug/l
RT: 4.916 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 41 Resp: 10486

Ion	Ratio	Lower	Upper
41	100		
39	57.0	47.2	70.8
67	64.6	50.7	76.1
52	29.7	24.6	37.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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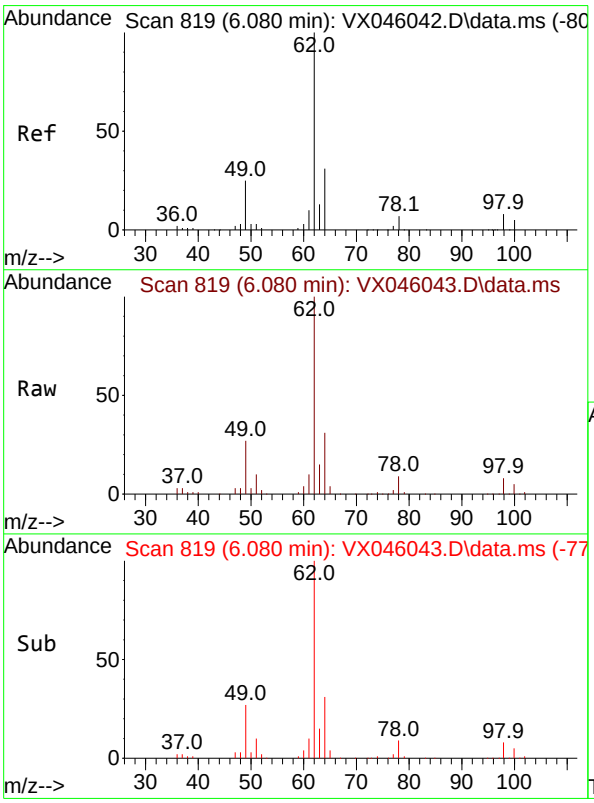
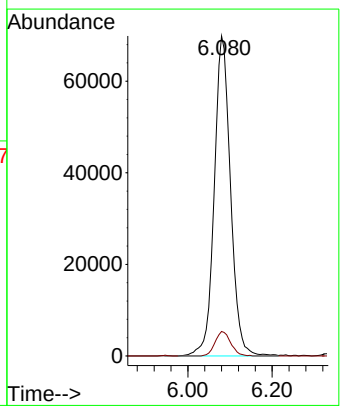
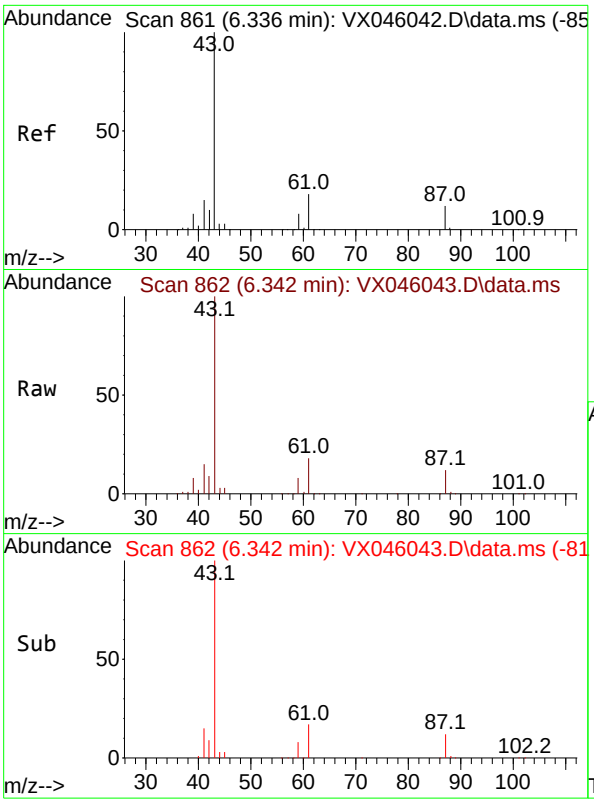


#42
1,2-Dichloroethane
Concen: 73.318 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 62 Resp: 187036

Ion	Ratio	Lower	Upper
62	100		
98	7.4	0.0	15.2





#43
Isopropyl Acetate
Concen: 78.714 ug/l
RT: 6.342 min Scan# 8
Delta R.T. 0.006 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 43 Resp: 30049

Ion	Ratio	Lower	Upper
43	100		
61	18.0	14.3	21.5
87	11.6	9.5	14.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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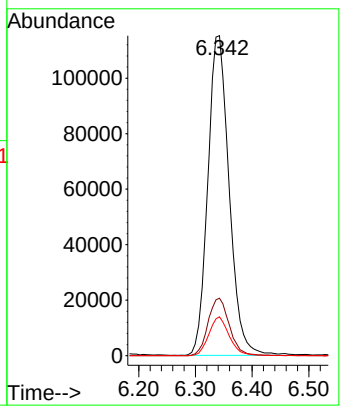
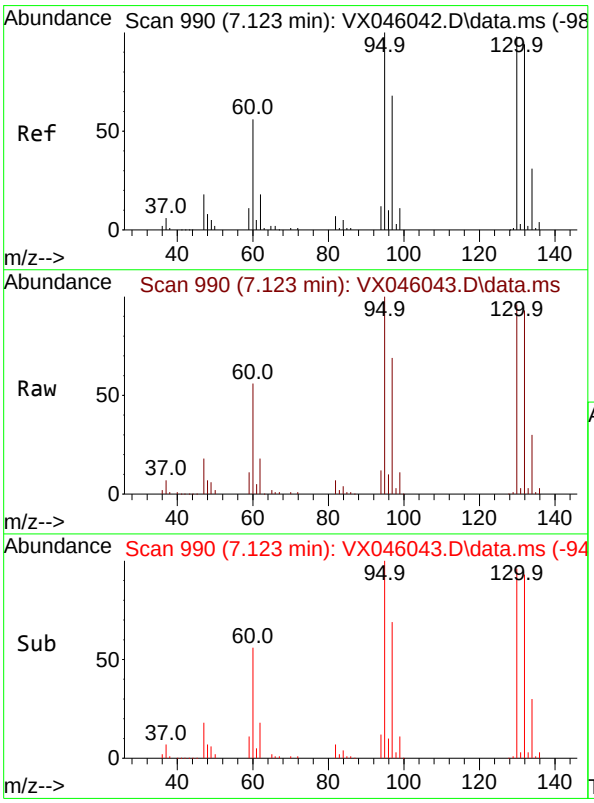
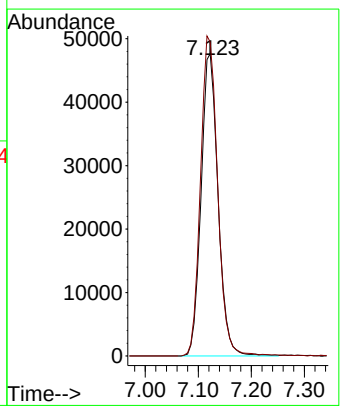


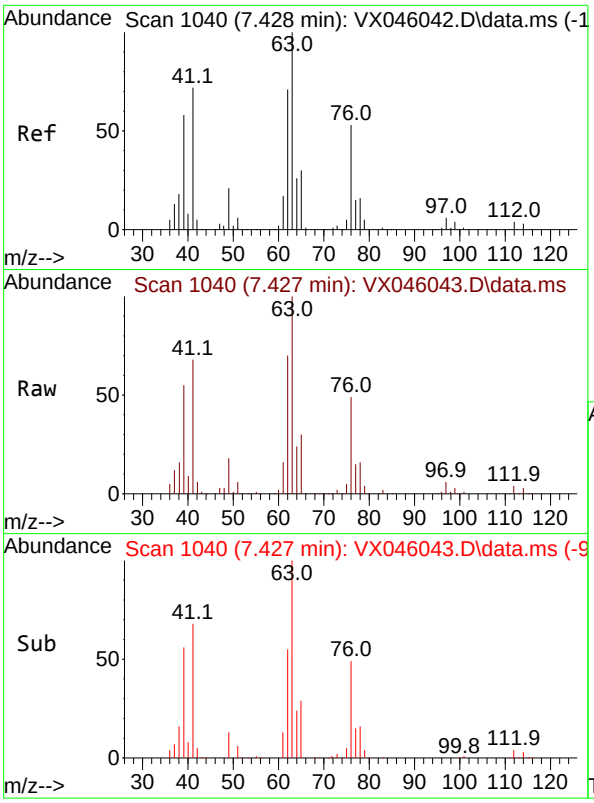


#44
Trichloroethene
Concen: 72.420 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion:130 Resp: 105628

Ion	Ratio	Lower	Upper
130	100		
95	103.8	0.0	204.2

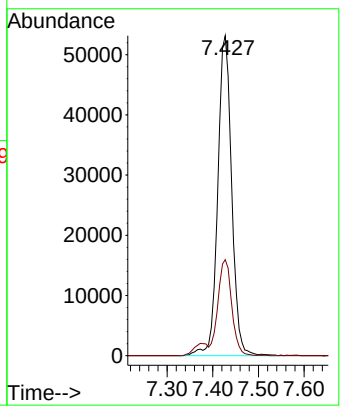




#45
1,2-Dichloropropane
Concen: 73.420 ug/l
RT: 7.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 63 Resp: 11255

Ion	Ratio	Lower	Upper
63	100		
65	30.0	24.1	36.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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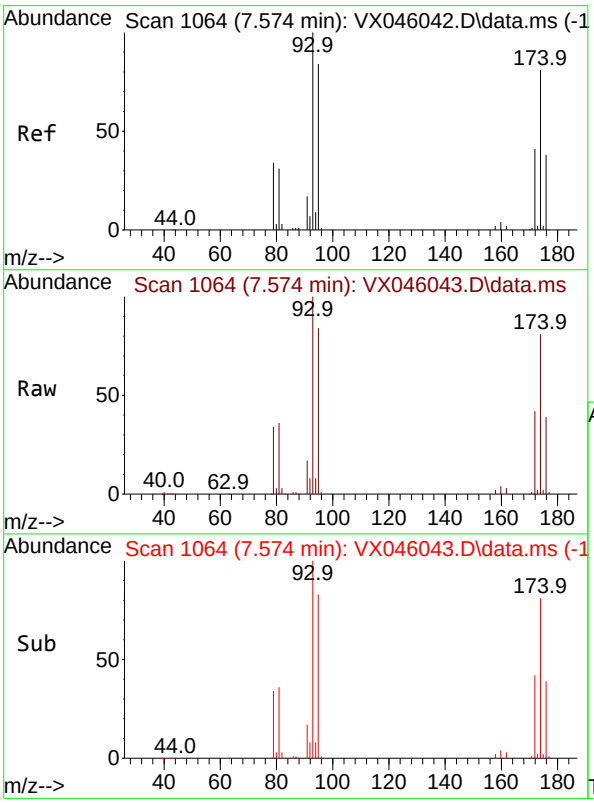
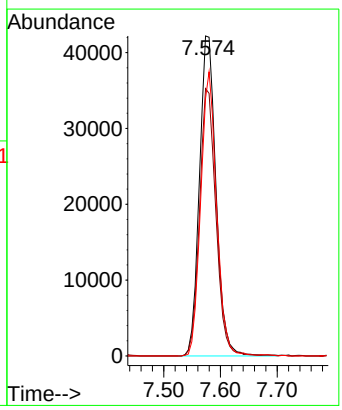
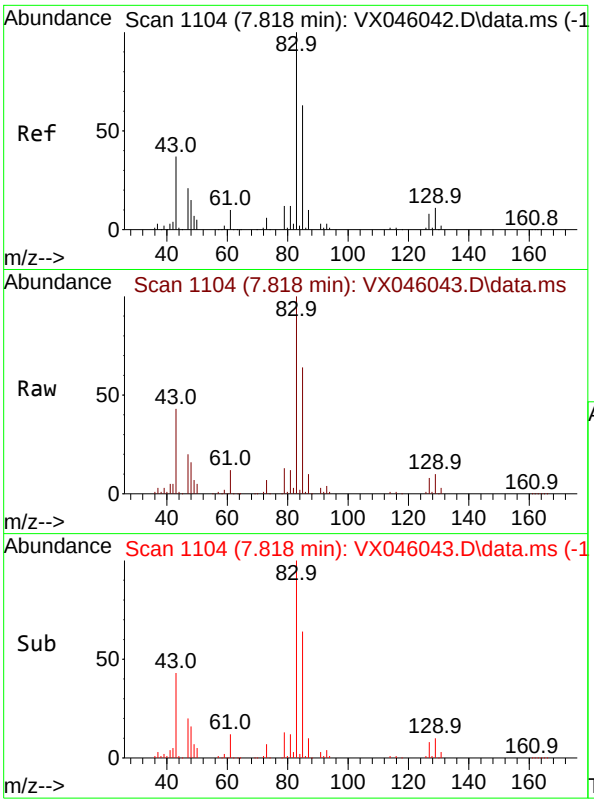


#46
Dibromomethane
Concen: 70.938 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 93 Resp: 85728

Ion	Ratio	Lower	Upper
93	100		
95	82.4	65.6	98.4
174	85.0	68.2	102.2

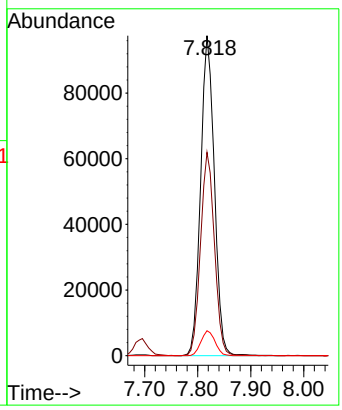




#47
Bromodichloromethane
Concen: 74.845 ug/l
RT: 7.818 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 83 Resp: 17530

Ion	Ratio	Lower	Upper
83	100		
85	63.6	50.5	75.7
127	7.8	6.5	9.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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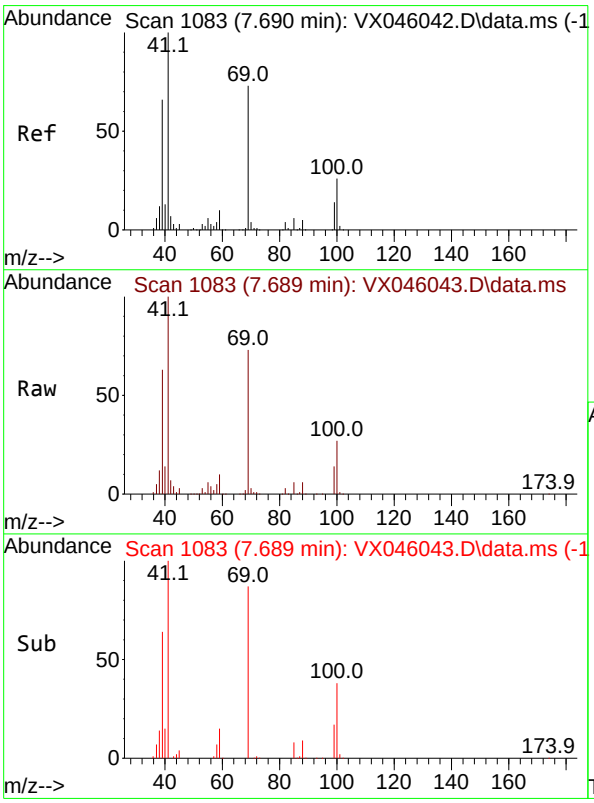
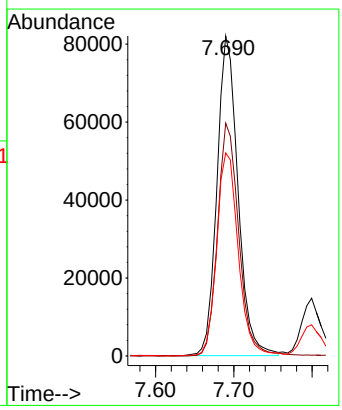
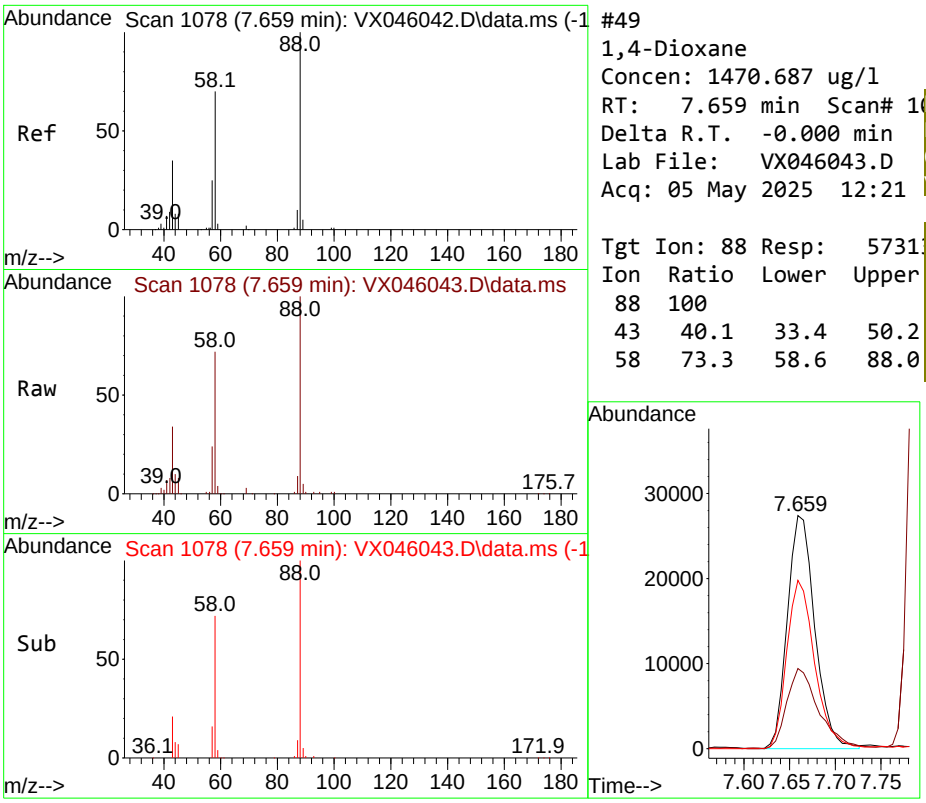


#48
Methyl methacrylate
Concen: 78.101 ug/l
RT: 7.689 min Scan# 1083
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 41 Resp: 153093

Ion	Ratio	Lower	Upper
41	100		
69	74.1	58.5	87.7
39	65.5	51.7	77.5





#49
1,4-Dioxane
Concen: 1470.687 ug/l
RT: 7.659 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 88 Resp: 5731

Ion	Ratio	Lower	Upper
88	100		
43	40.1	33.4	50.2
58	73.3	58.6	88.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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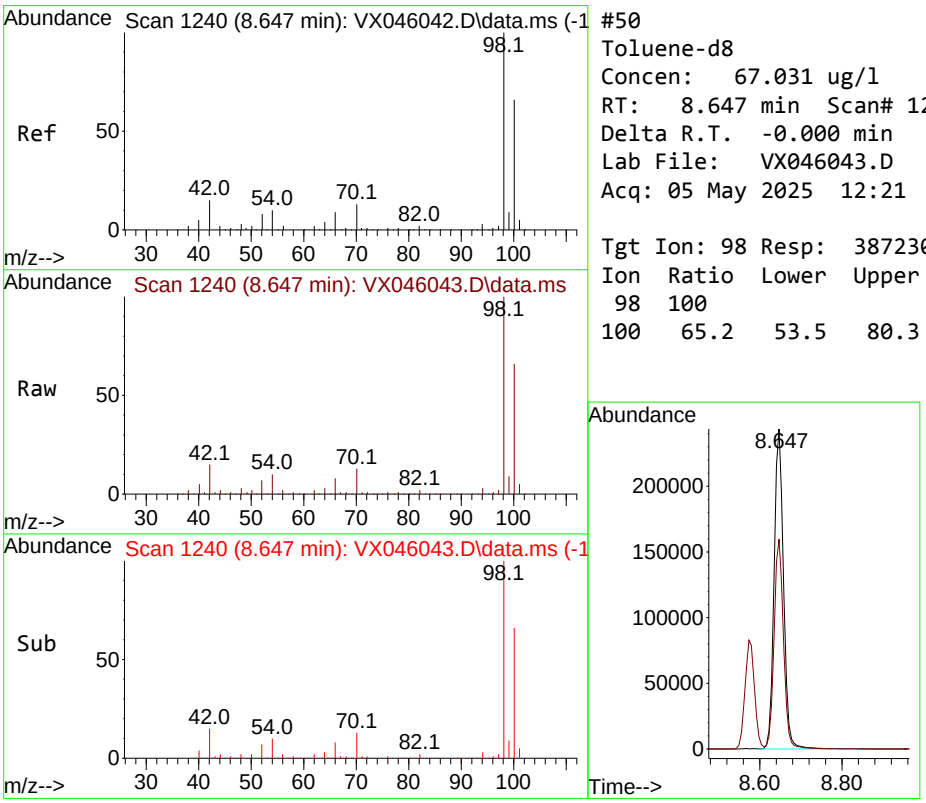
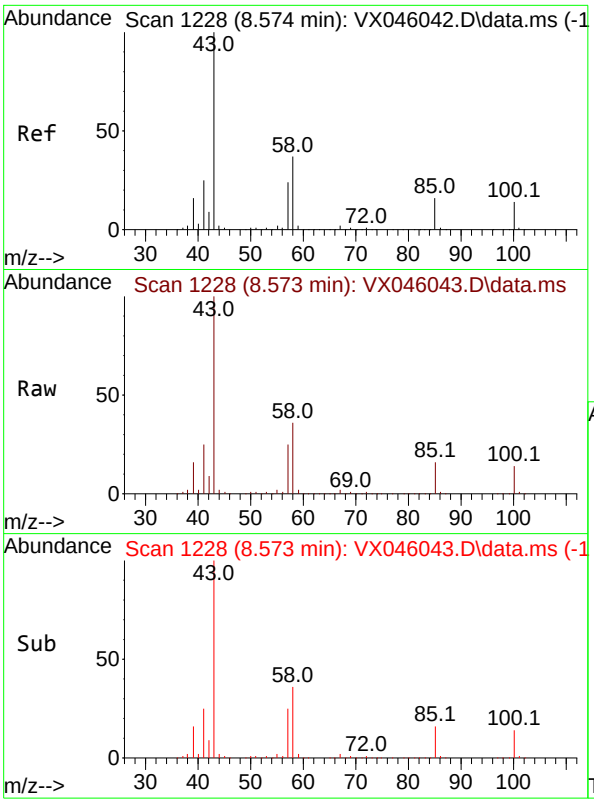


#50
Toluene-d8
Concen: 67.031 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 98 Resp: 387230

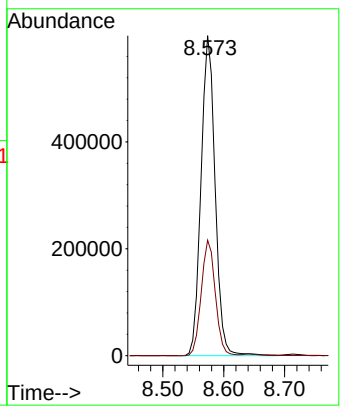
Ion	Ratio	Lower	Upper
98	100		
100	65.2	53.5	80.3



#51
4-Methyl-2-Pentanone
Concen: 384.740 ug/l
RT: 8.573 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 43 Resp: 96331

Ion	Ratio	Lower	Upper
43	100		
58	36.1	28.9	43.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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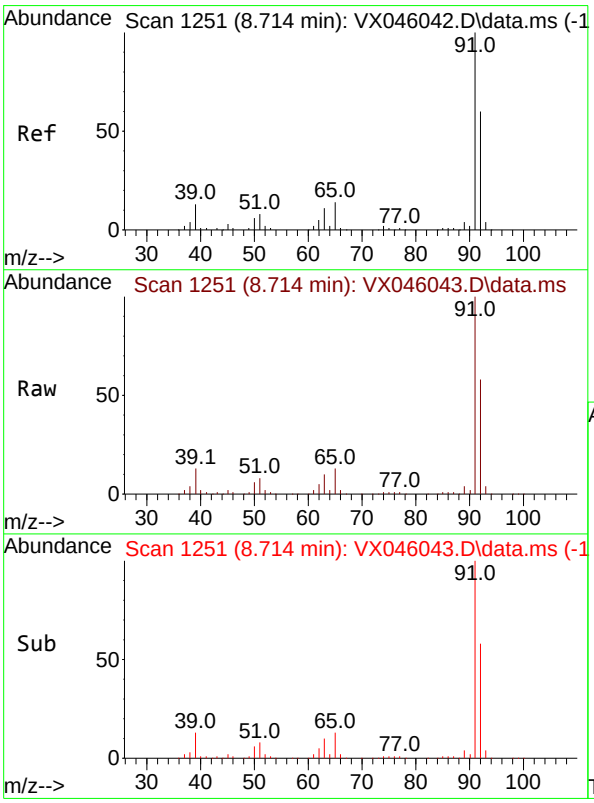
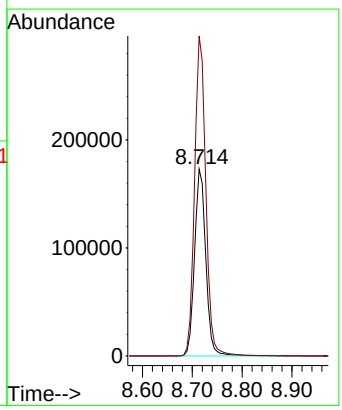
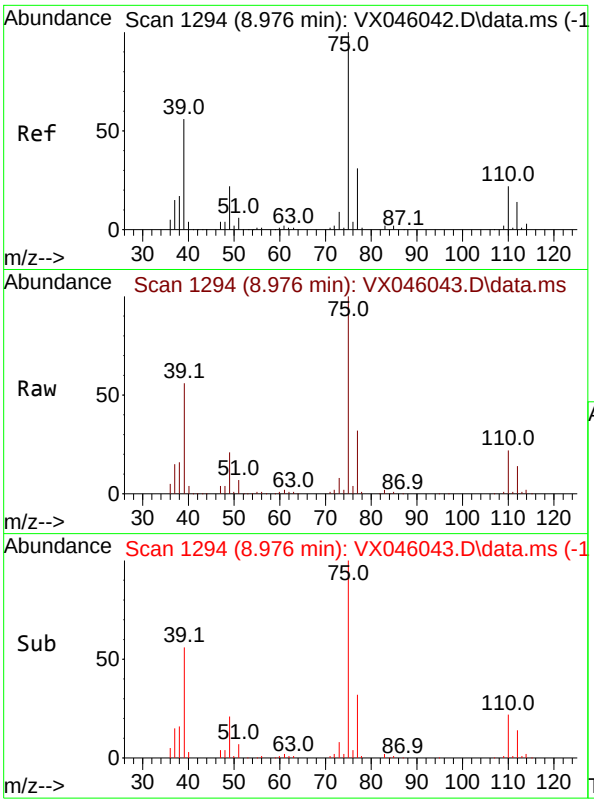


#52
Toluene
Concen: 74.010 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 92 Resp: 270763

Ion	Ratio	Lower	Upper
92	100		
91	171.2	136.6	205.0

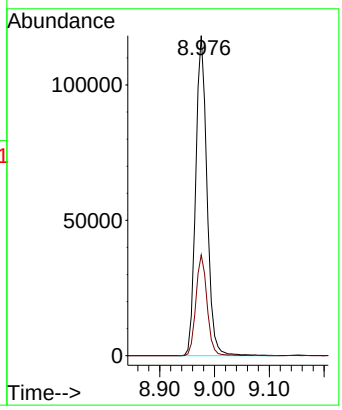




#53
t-1,3-Dichloropropene
Concen: 86.372 ug/l
RT: 8.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 75 Resp: 16986

Ion	Ratio	Lower	Upper
75	100		
77	31.5	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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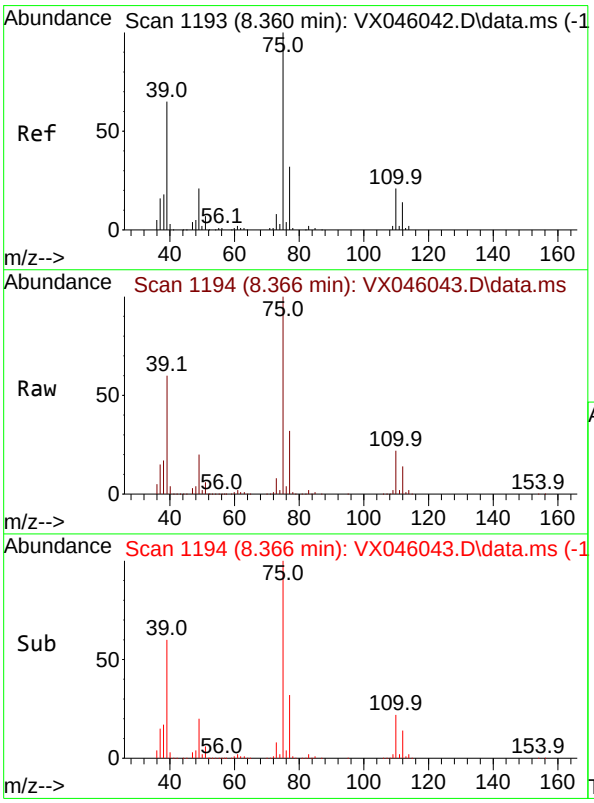
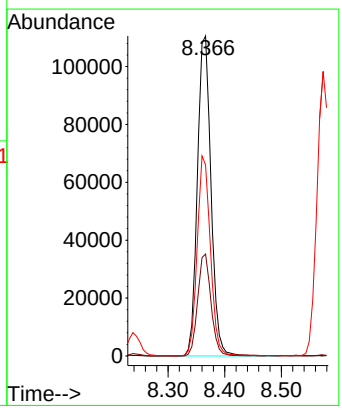
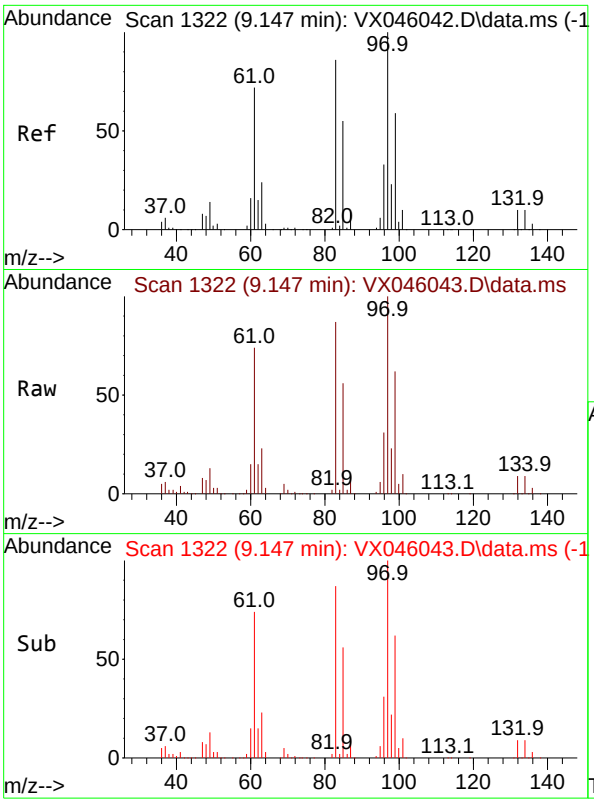


#54
cis-1,3-Dichloropropene
Concen: 80.264 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.006 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 75 Resp: 184134

Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.4	38.0
39	59.6	52.2	78.4

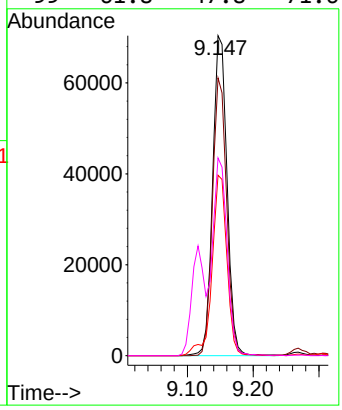




#55
1,1,2-Trichloroethane
Concen: 72.543 ug/l
RT: 9.147 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 97 Resp: 10726

Ion	Ratio	Lower	Upper
97	100		
83	86.8	69.0	103.6
85	56.4	44.3	66.5
99	61.8	47.8	71.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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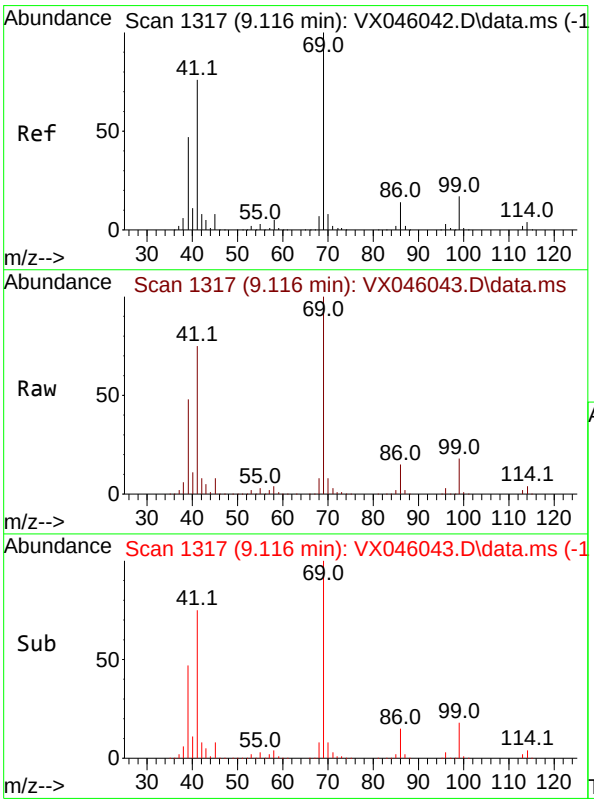
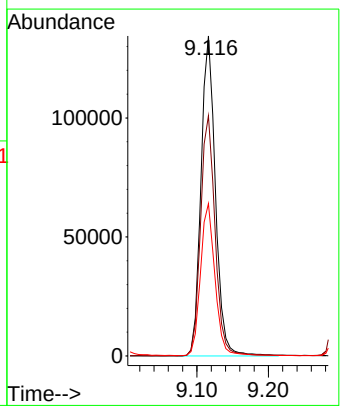
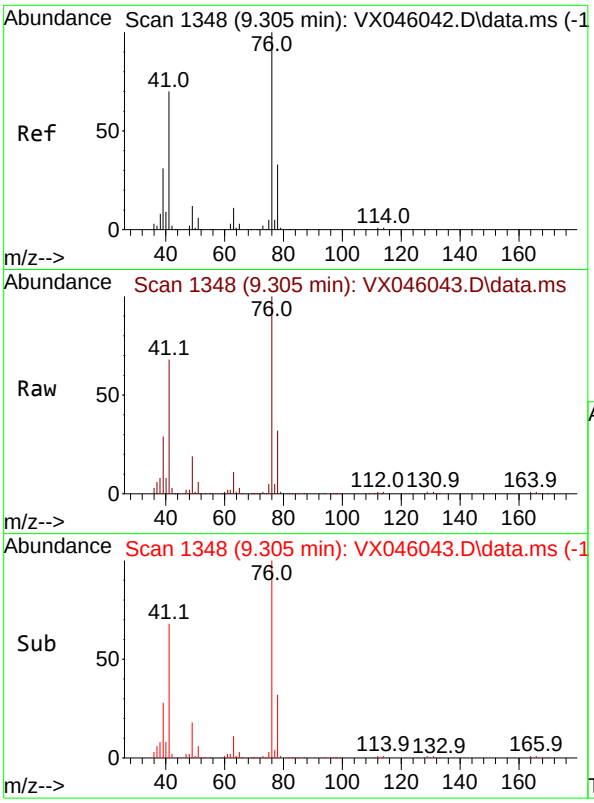


#56
Ethyl methacrylate
Concen: 82.359 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 69 Resp: 188717

Ion	Ratio	Lower	Upper
69	100		
41	75.7	60.8	91.2
39	47.7	39.0	58.6





#57
1,3-Dichloropropane
Concen: 71.590 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 76 Resp: 18764

Ion	Ratio	Lower	Upper
76	100		
78	32.1	26.3	39.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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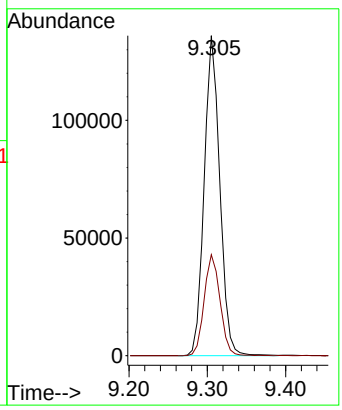
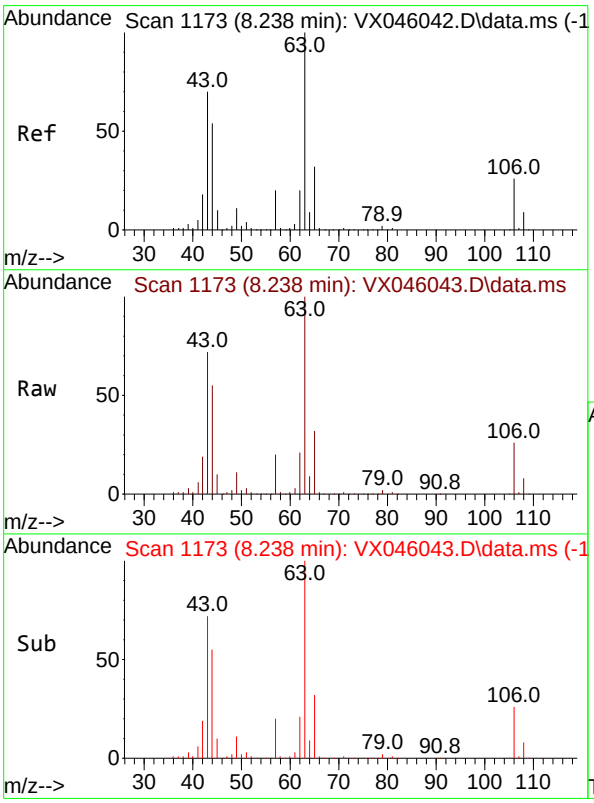
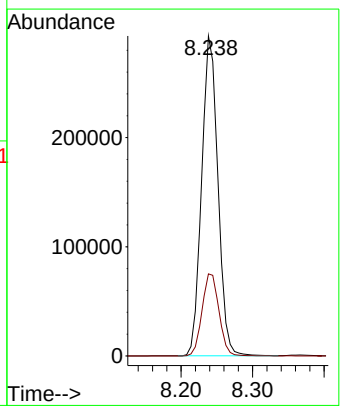


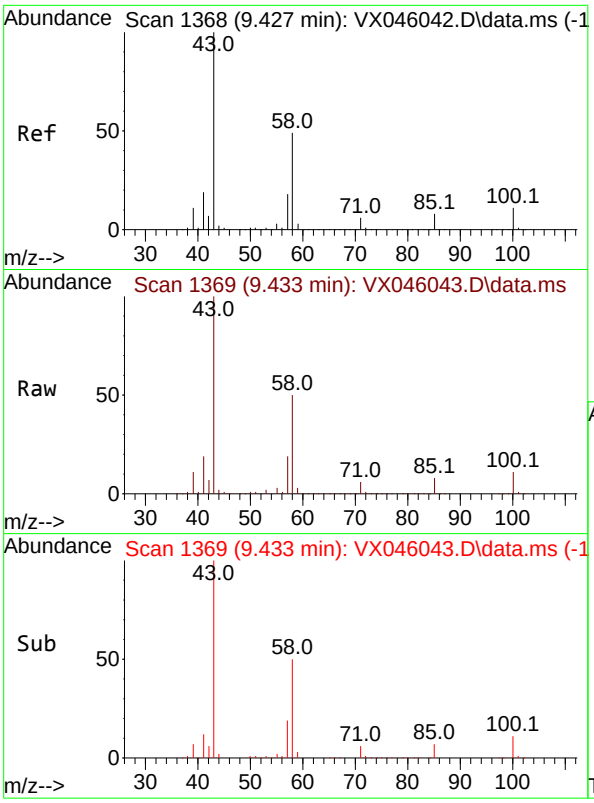


#58
2-Chloroethyl Vinyl ether
Concen: 449.791 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 63 Resp: 463169

Ion	Ratio	Lower	Upper
63	100		
106	26.7	21.5	32.3





#59
2-Hexanone
Concen: 383.945 ug/l
RT: 9.433 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 43 Resp: 72960

Ion	Ratio	Lower	Upper
43	100		
58	49.9	24.9	74.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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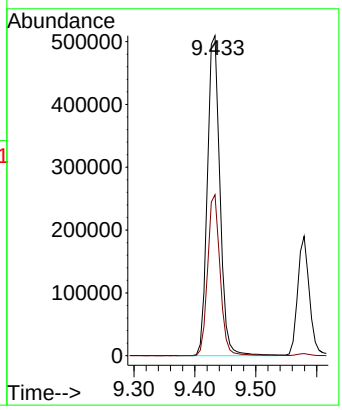
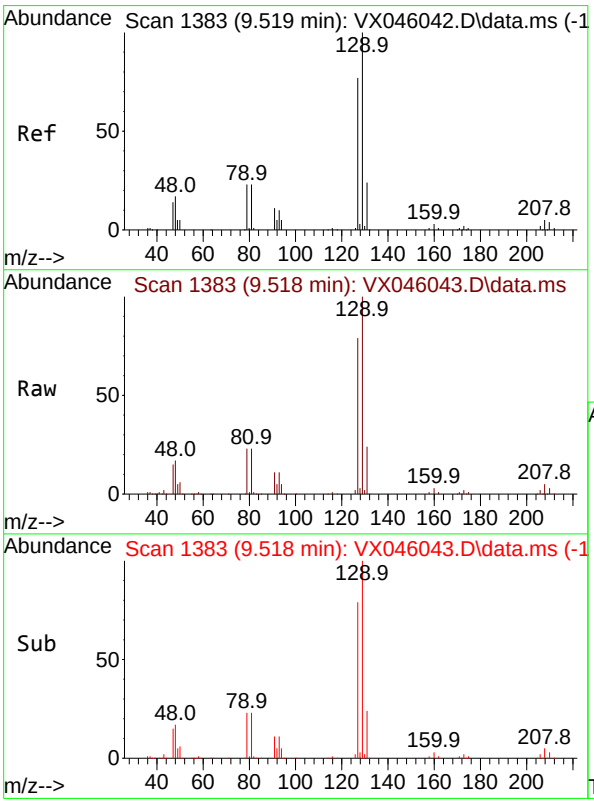
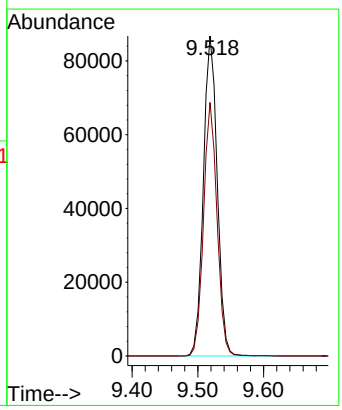


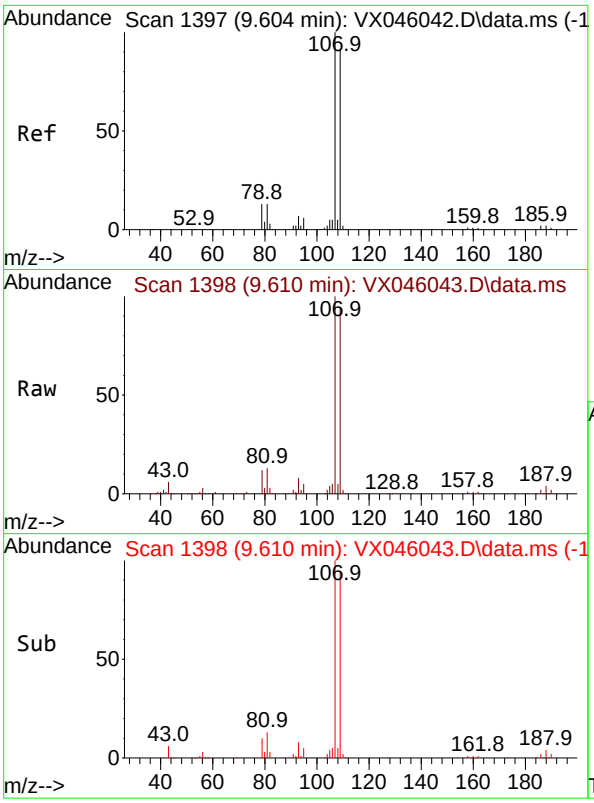


#60
Dibromochloromethane
Concen: 78.918 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion:129 Resp: 127012

Ion	Ratio	Lower	Upper
129	100		
127	77.0	39.3	117.8

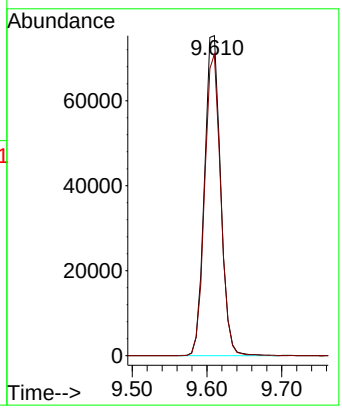




#61
1,2-Dibromoethane
Concen: 74.200 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion:107 Resp: 11266

Ion	Ratio	Lower	Upper
107	100		
109	93.9	73.3	109.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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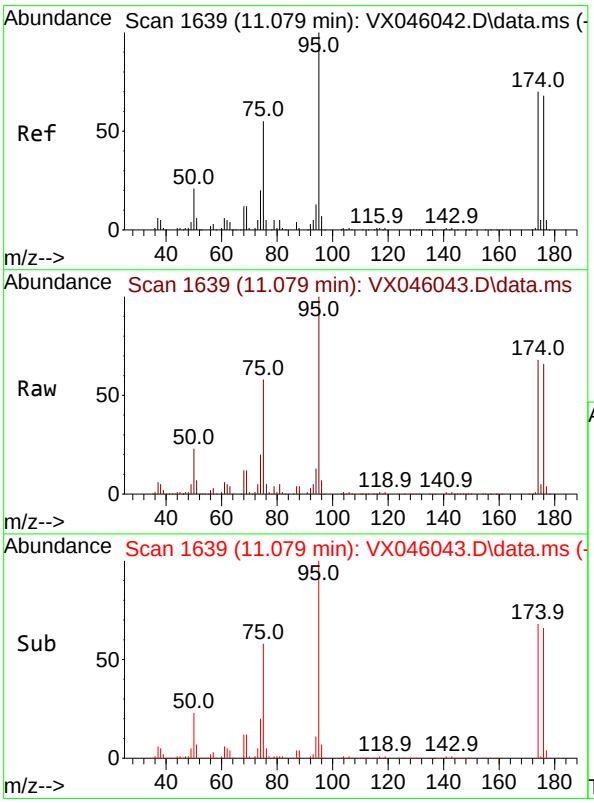
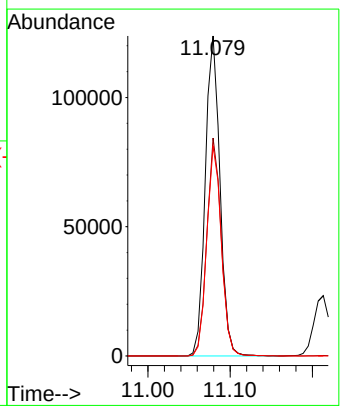
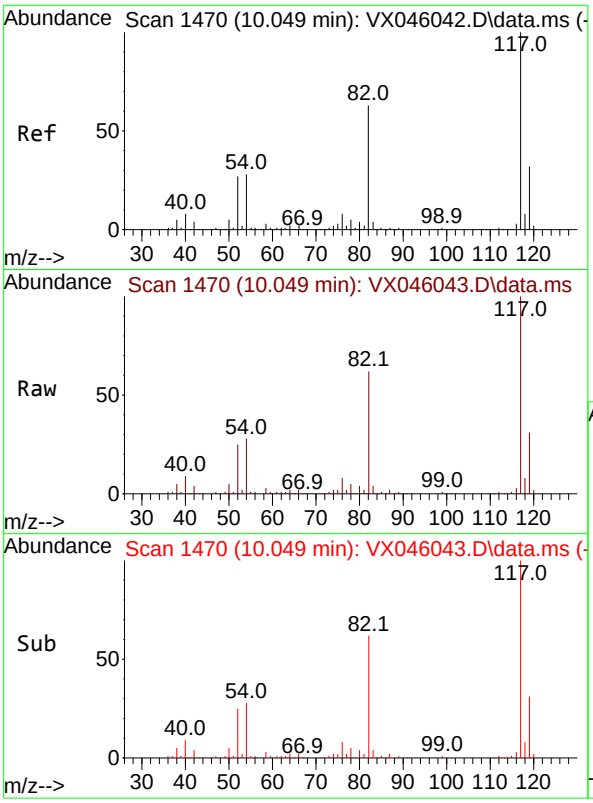


#62
4-Bromofluorobenzene
Concen: 72.818 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 95 Resp: 153085

Ion	Ratio	Lower	Upper
95	100		
174	67.1	0.0	135.8
176	65.3	0.0	131.4

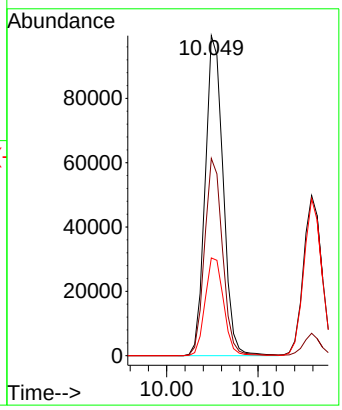




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion:117 Resp: 13521

Ion	Ratio	Lower	Upper
117	100		
82	61.7	50.6	76.0
119	30.6	25.8	38.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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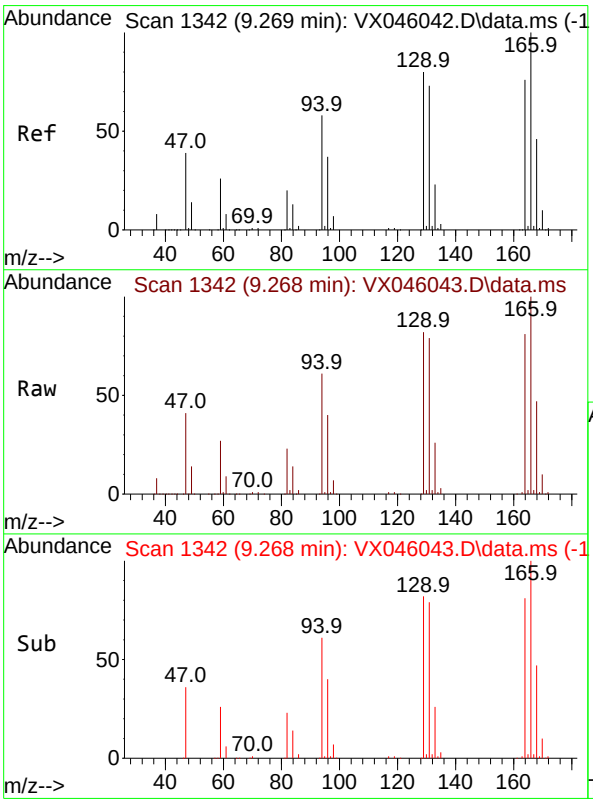
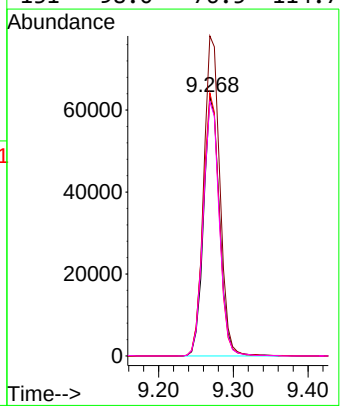
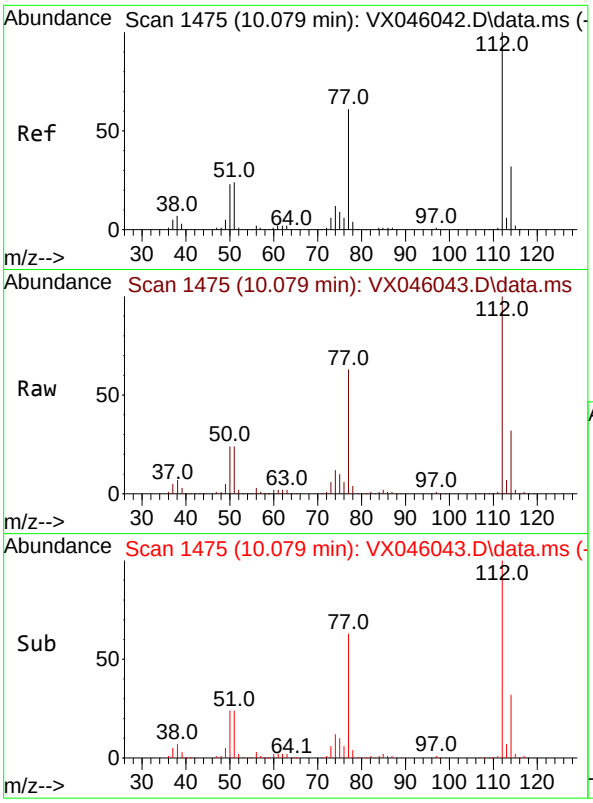


#64
Tetrachloroethene
Concen: 67.493 ug/l
RT: 9.268 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion:164 Resp: 93195

Ion	Ratio	Lower	Upper
164	100		
166	123.4	105.0	157.6
129	101.4	83.5	125.3
131	98.0	76.5	114.7

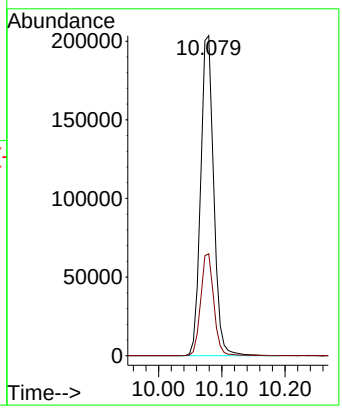




#65
Chlorobenzene
Concen: 70.490 ug/l
RT: 10.079 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion:112 Resp: 29328

Ion	Ratio	Lower	Upper
112	100		
114	31.9	25.4	38.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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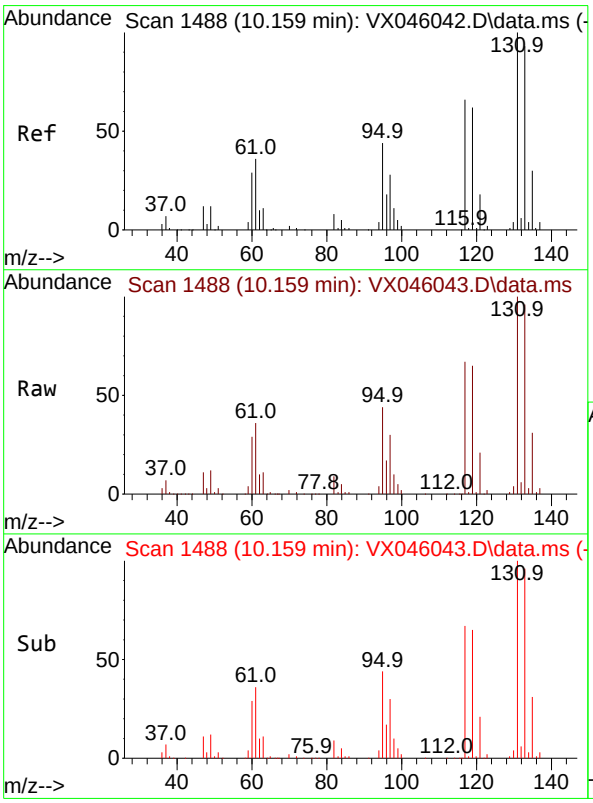
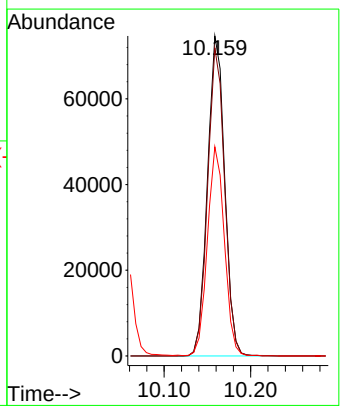
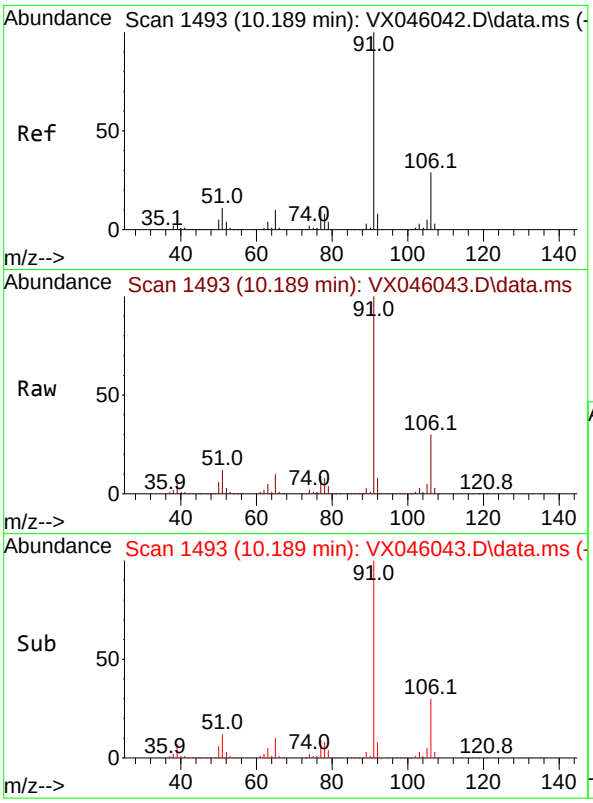


#66
1,1,1,2-Tetrachloroethane
Concen: 74.349 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion:131 Resp: 103177

Ion	Ratio	Lower	Upper
131	100		
133	95.3	47.3	141.9
119	64.5	31.6	95.0

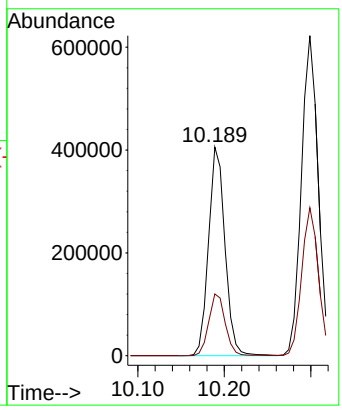




#67
Ethyl Benzene
Concen: 75.444 ug/l
RT: 10.189 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 91 Resp: 53512

Ion	Ratio	Lower	Upper
91	100		
106	29.6	23.4	35.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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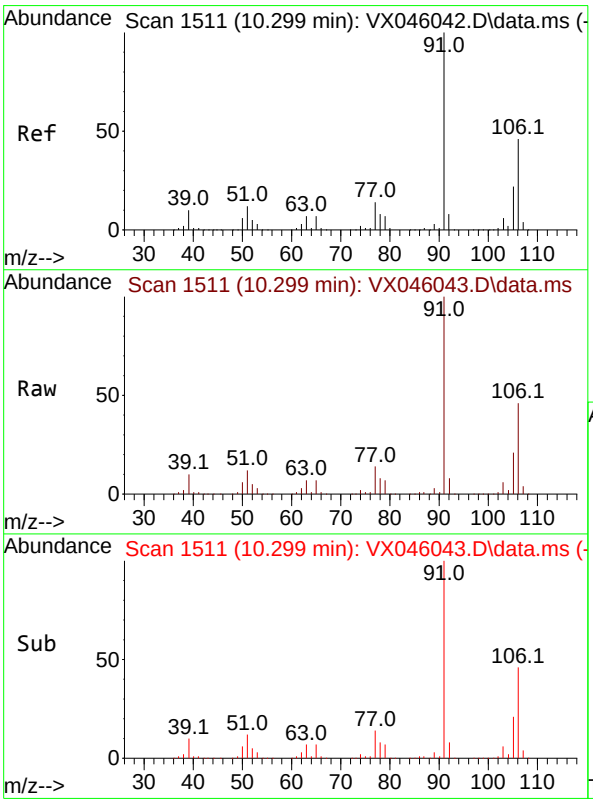
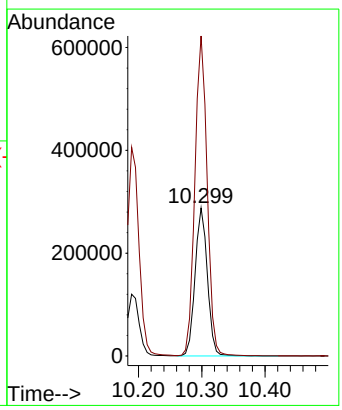
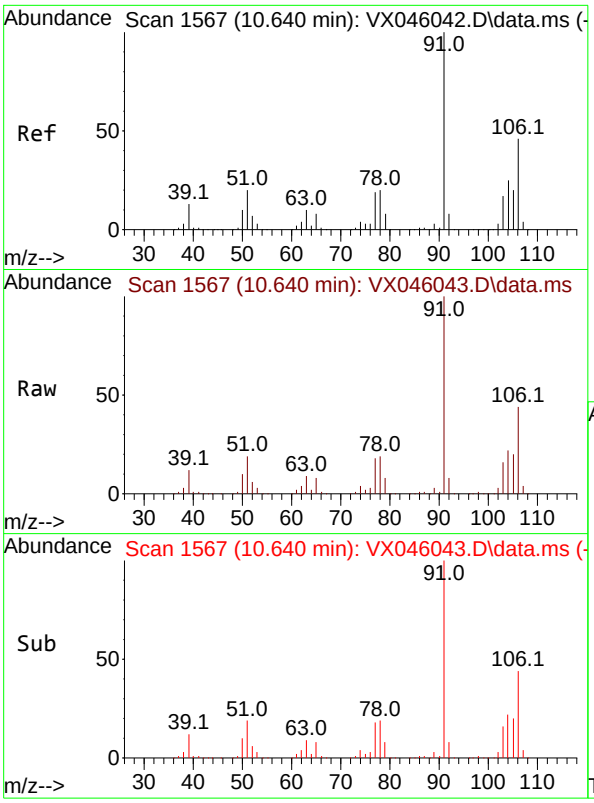


#68
m/p-Xylenes
Concen: 152.181 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion:106 Resp: 389935

Ion	Ratio	Lower	Upper
106	100		
91	215.8	171.2	256.8

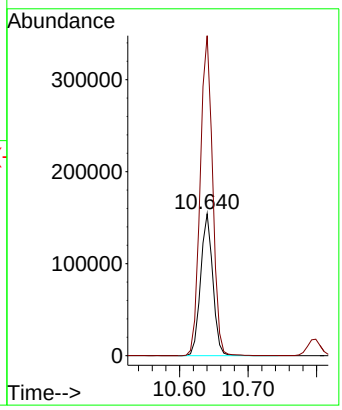




#69
o-Xylene
Concen: 73.890 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion:106 Resp: 19083

Ion	Ratio	Lower	Upper
106	100		
91	230.3	112.7	338.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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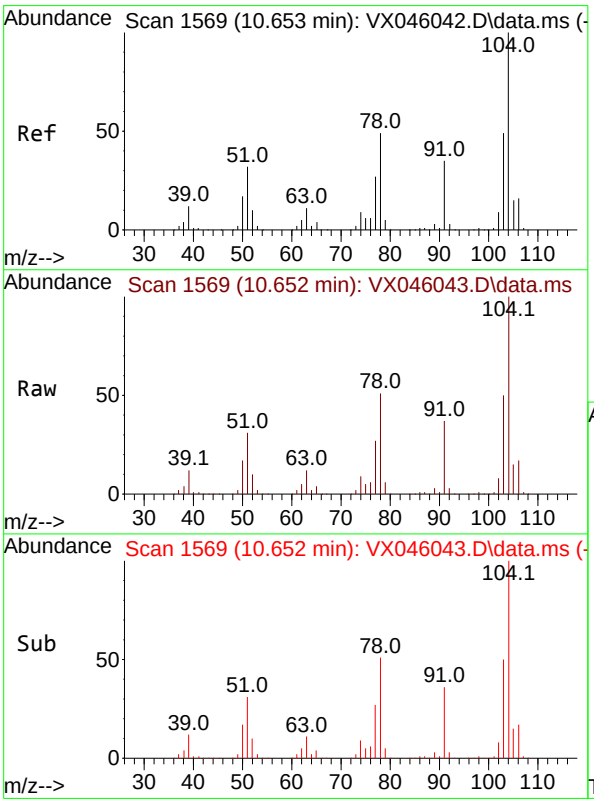
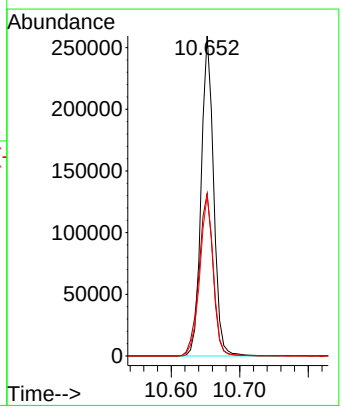
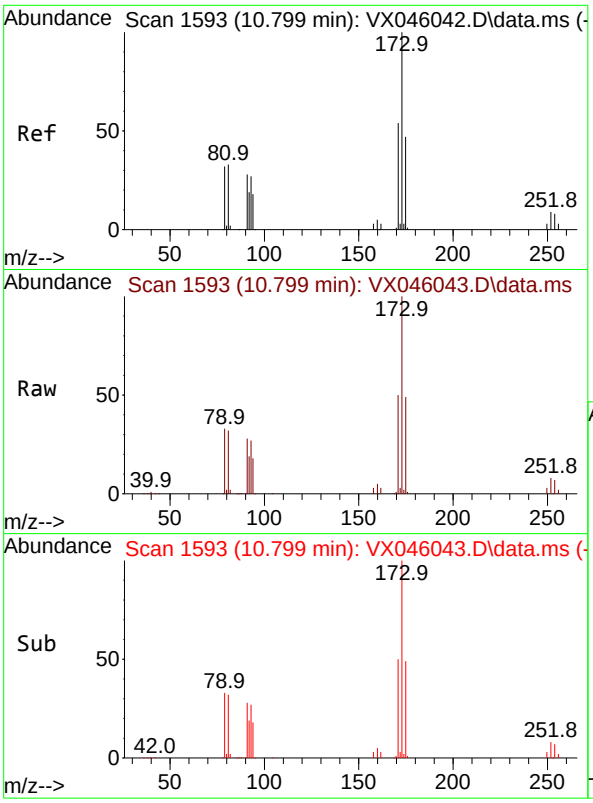


#70
Styrene
Concen: 79.411 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion:104 Resp: 328195

Ion	Ratio	Lower	Upper
104	100		
78	57.4	45.7	68.5
103	54.8	43.7	65.5

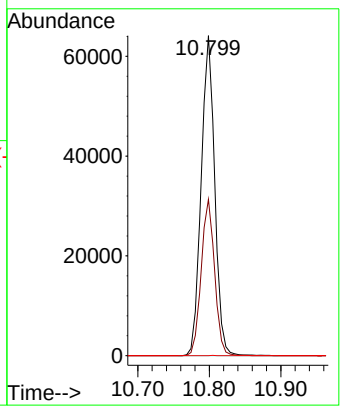




#71
Bromoform
Concen: 80.927 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion:173 Resp: 8435

Ion	Ratio	Lower	Upper
173	100		
175	48.3	23.4	70.0
254	0.0	0.0	0.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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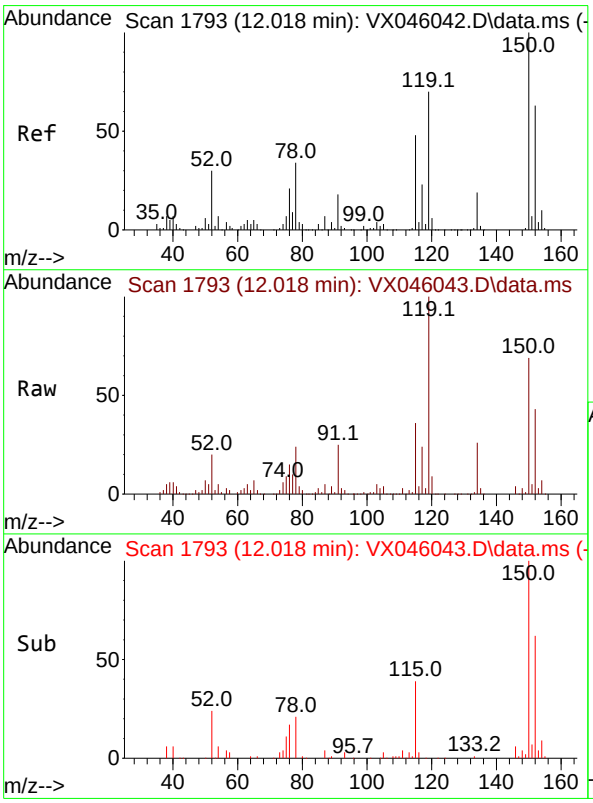
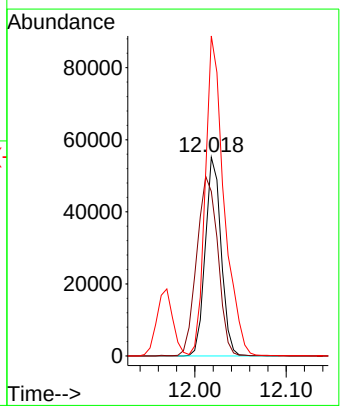
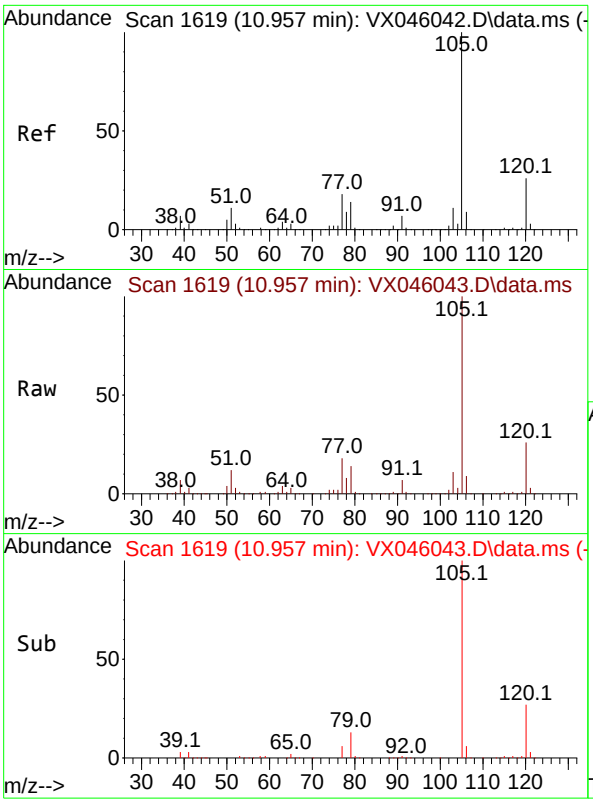


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion:152 Resp: 66369

Ion	Ratio	Lower	Upper
152	100		
115	120.4	46.9	140.7
150	190.4	0.0	351.0





#73
Isopropylbenzene
Concen: 71.083 ug/l
RT: 10.957 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion:105 Resp: 51452

Ion	Ratio	Lower	Upper
105	100		
120	25.4	12.8	38.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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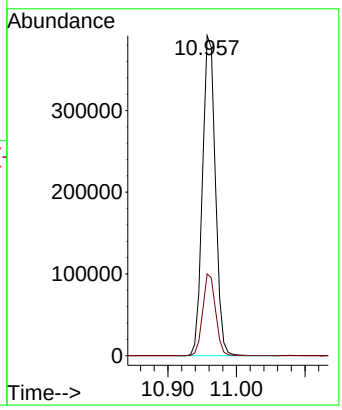
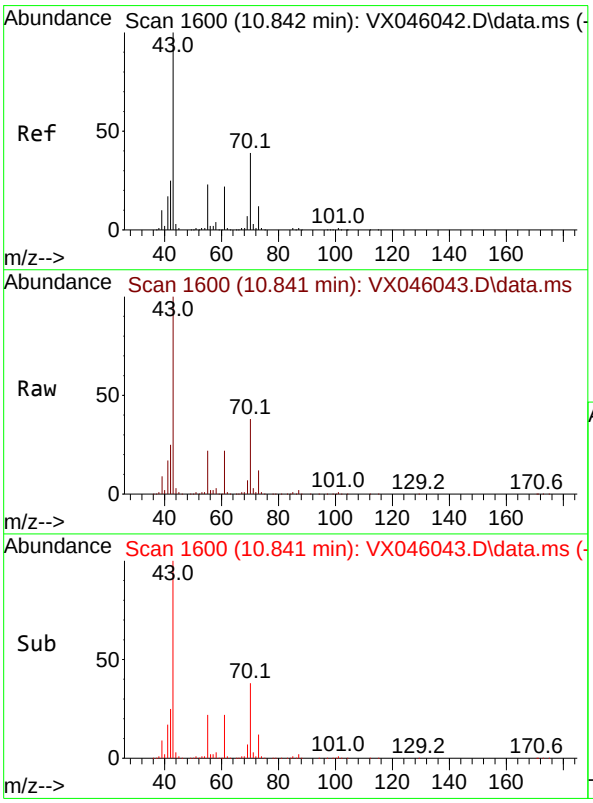
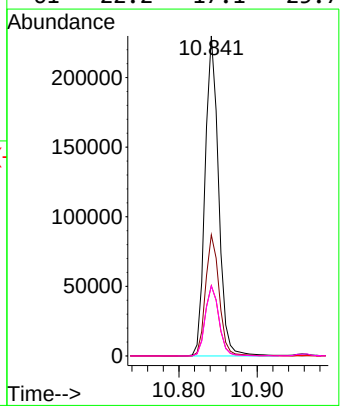


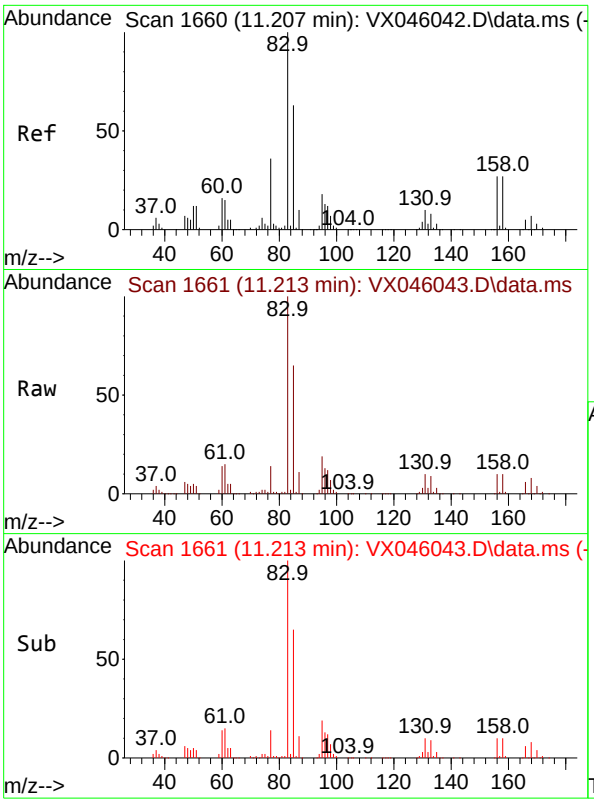


#74
N-amyl acetate
Concen: 76.073 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 43 Resp: 274553

Ion	Ratio	Lower	Upper
43	100		
70	38.2	30.9	46.3
55	22.5	18.7	28.1
61	22.2	17.1	25.7

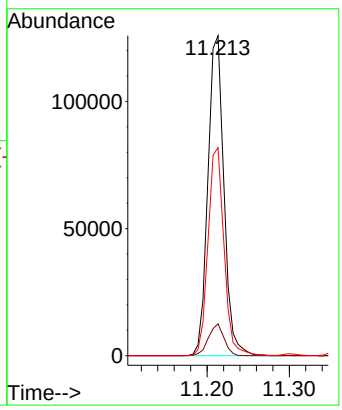




#75
1,1,2,2-Tetrachloroethane
Concen: 66.207 ug/l
RT: 11.213 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 83 Resp: 17048

Ion	Ratio	Lower	Upper
83	100		
131	9.7	5.0	14.9
85	64.9	31.9	95.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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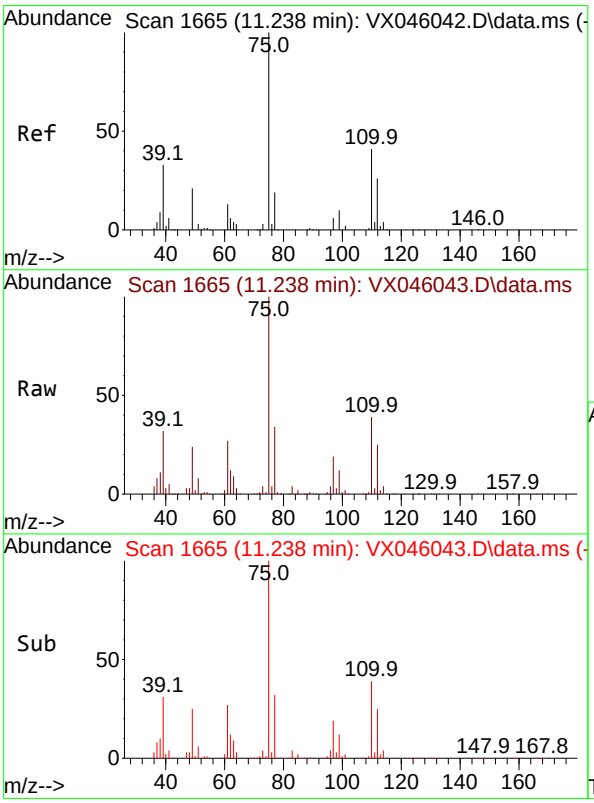
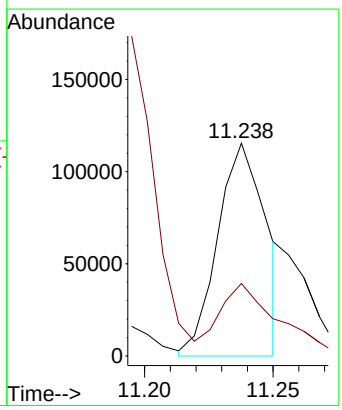
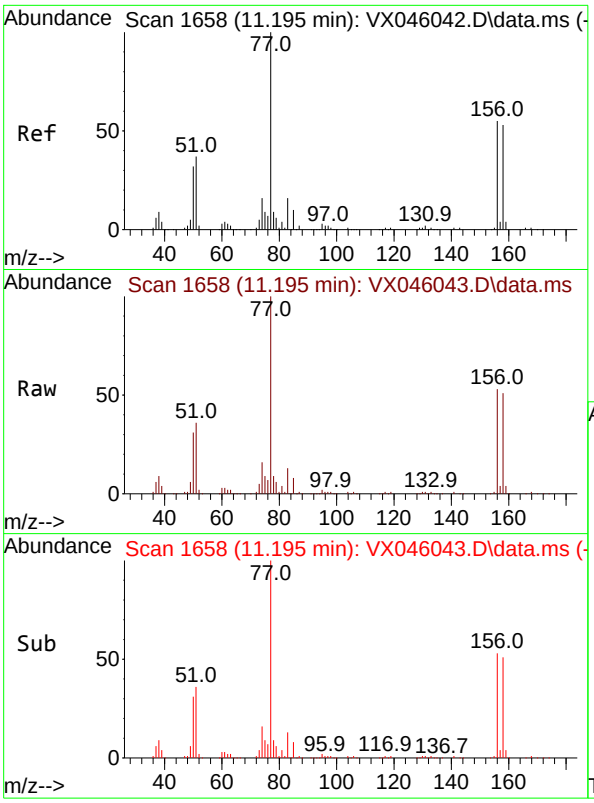


#76
1,2,3-Trichloropropane
Concen: 54.277 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 75 Resp: 150182

Ion	Ratio	Lower	Upper
75	100		
77	42.2	20.5	61.5





#77
Bromobenzene
Concen: 69.959 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion:156 Resp: 11715

Ion	Ratio	Lower	Upper
156	100		
77	187.4	92.8	278.3
158	96.1	48.8	146.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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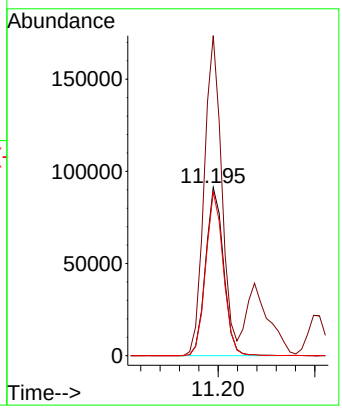
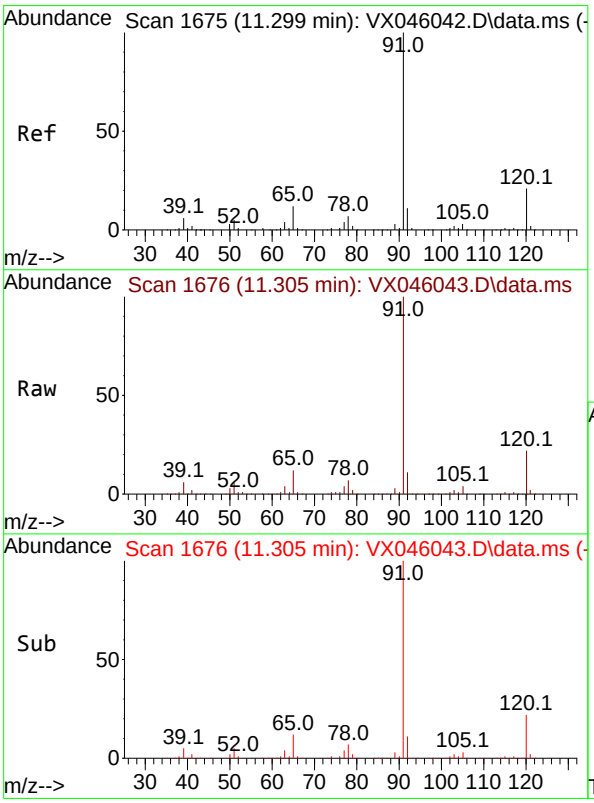
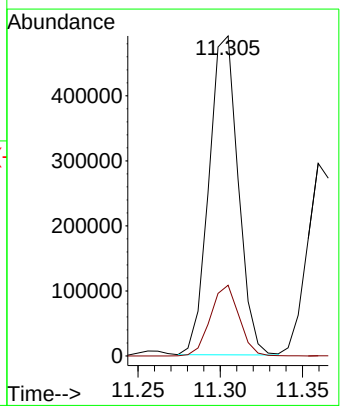


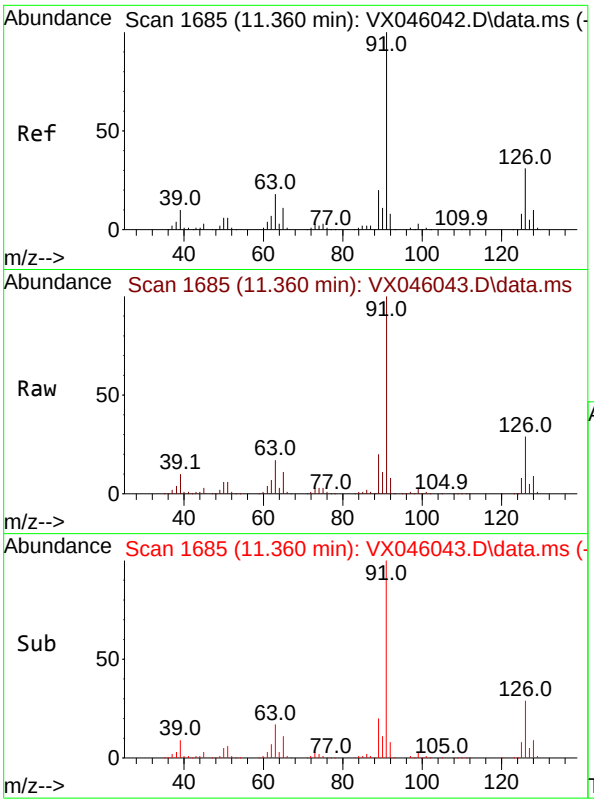


#78
n-propylbenzene
Concen: 74.974 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.006 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 91 Resp: 608332

Ion	Ratio	Lower	Upper
91	100		
120	21.7	10.8	32.4





#79
2-Chlorotoluene
Concen: 68.100 ug/l
RT: 11.360 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 91 Resp: 37239

Ion	Ratio	Lower	Upper
91	100		
126	30.9	15.6	46.7

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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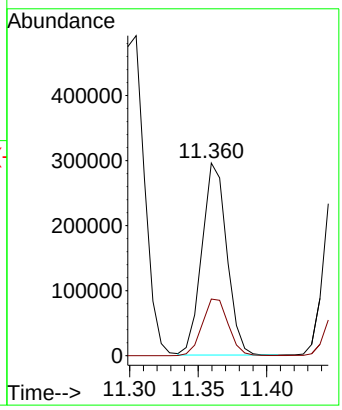
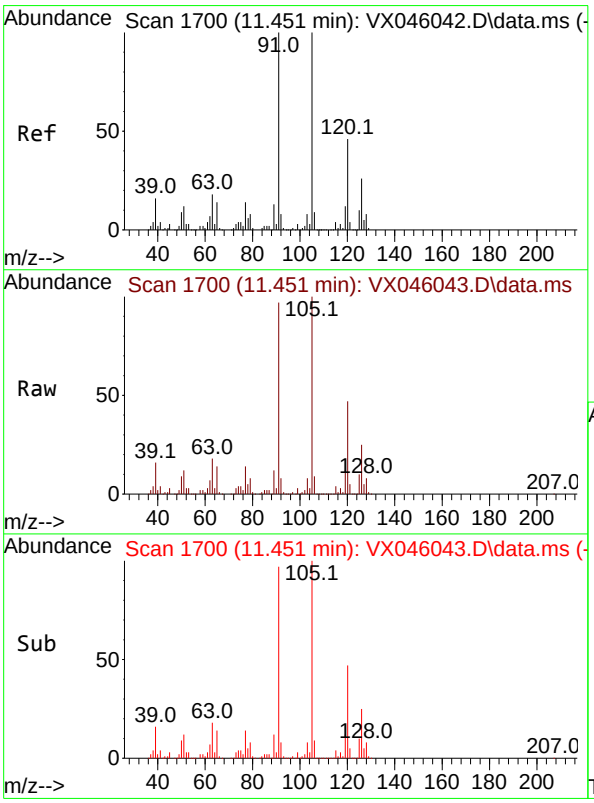
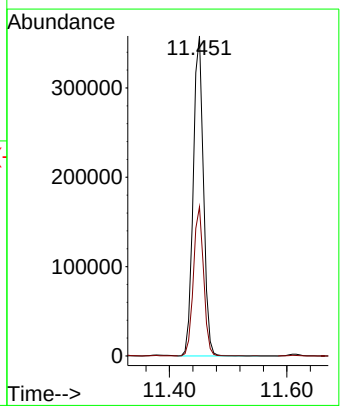


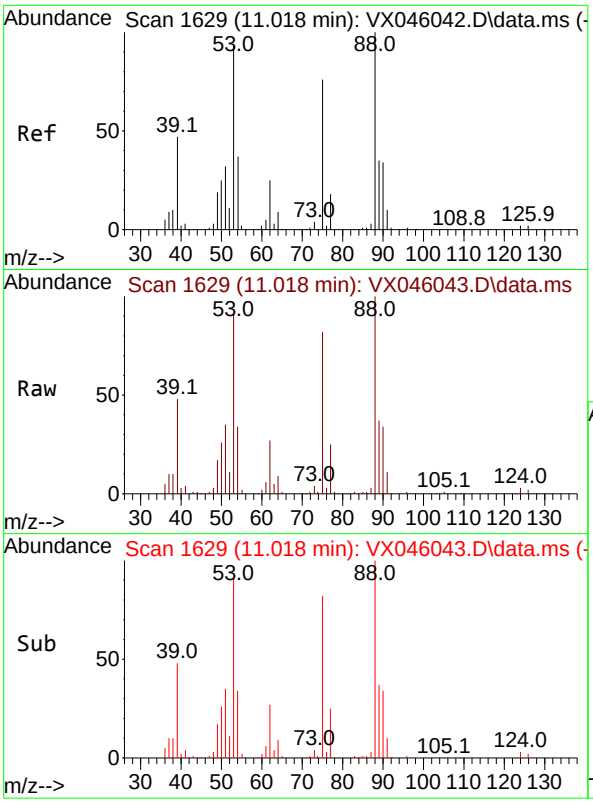


#80
1,3,5-Trimethylbenzene
Concen: 71.903 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion:105 Resp: 432096

Ion	Ratio	Lower	Upper
105	100		
120	46.3	23.1	69.2

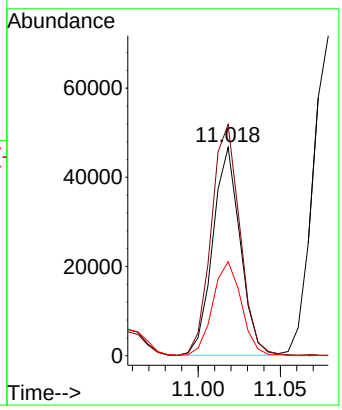




#81
trans-1,4-Dichloro-2-butene
Concen: 81.820 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 75 Resp: 5439

Ion	Ratio	Lower	Upper
75	100		
53	115.8	100.5	150.7
89	47.0	37.0	55.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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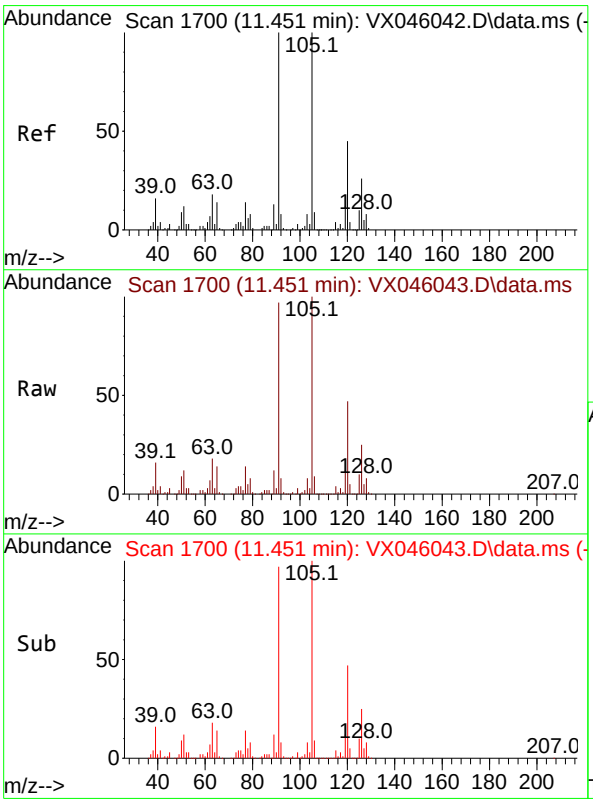
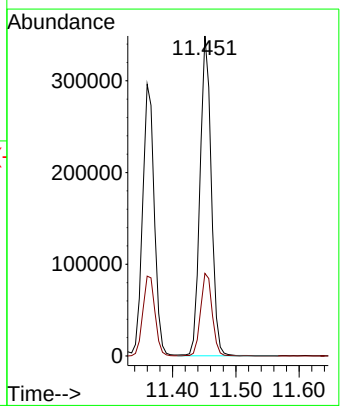
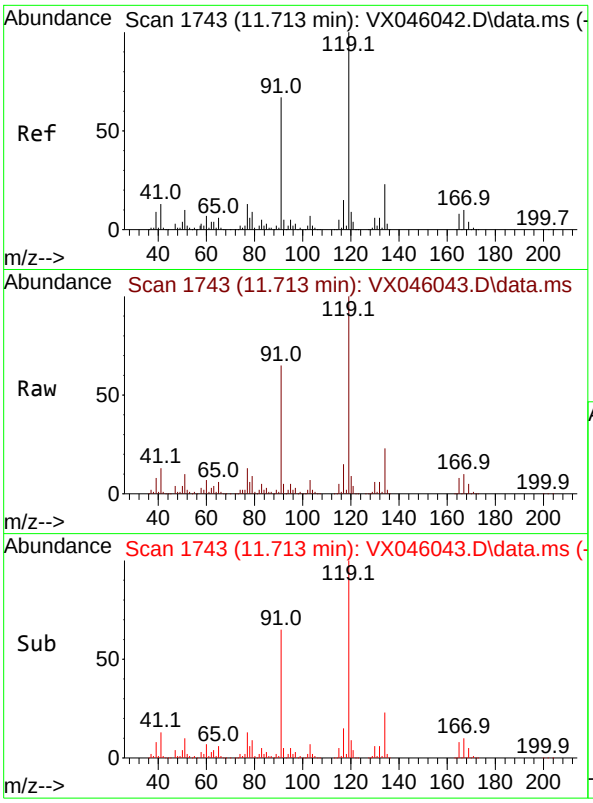


#82
4-Chlorotoluene
Concen: 71.890 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 91 Resp: 432053

Ion	Ratio	Lower	Upper
91	100		
126	26.5	13.3	39.8

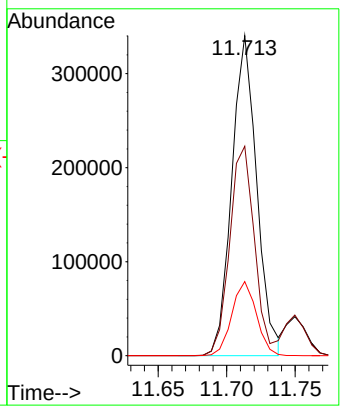




#83
tert-Butylbenzene
Concen: 73.197 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion:119 Resp: 43201

Ion	Ratio	Lower	Upper
119	100		
91	64.4	32.9	98.7
134	22.8	11.4	34.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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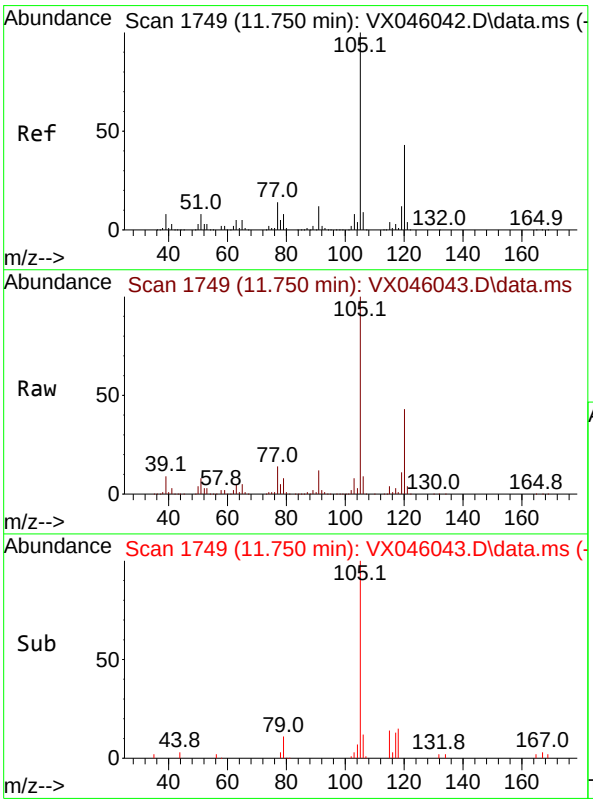
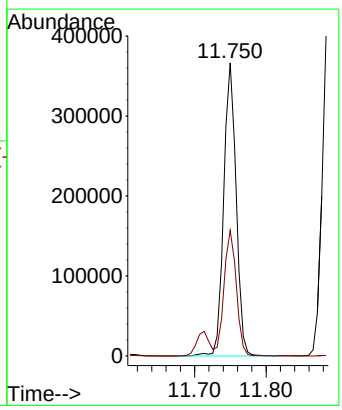
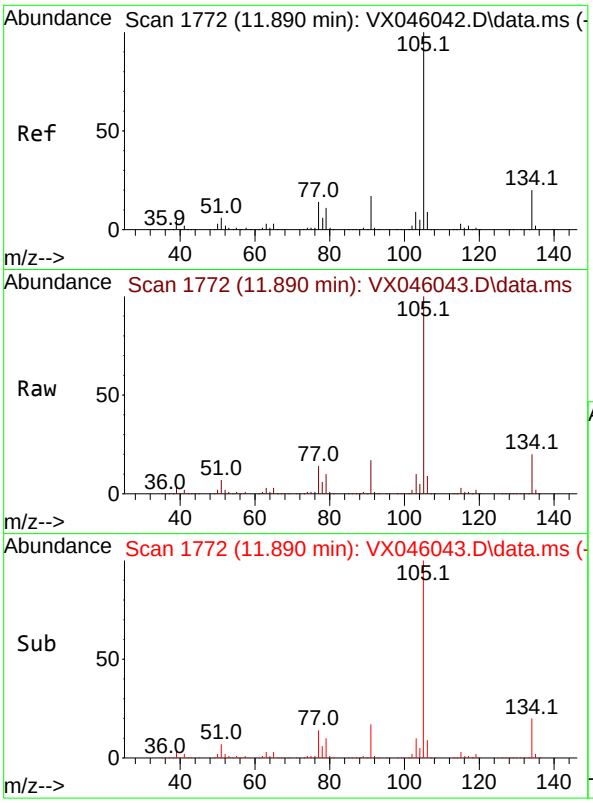


#84
1,2,4-Trimethylbenzene
Concen: 73.758 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion:105 Resp: 442728

Ion	Ratio	Lower	Upper
105	100		
120	42.4	21.2	63.6

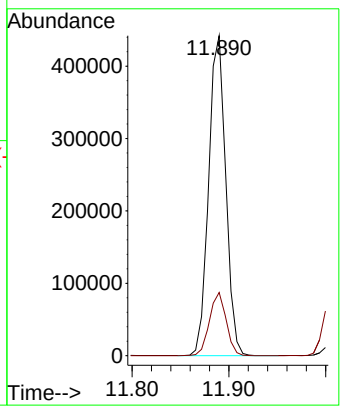




#85
sec-Butylbenzene
Concen: 74.188 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion:105 Resp: 54359

Ion	Ratio	Lower	Upper
105	100		
134	19.4	9.7	29.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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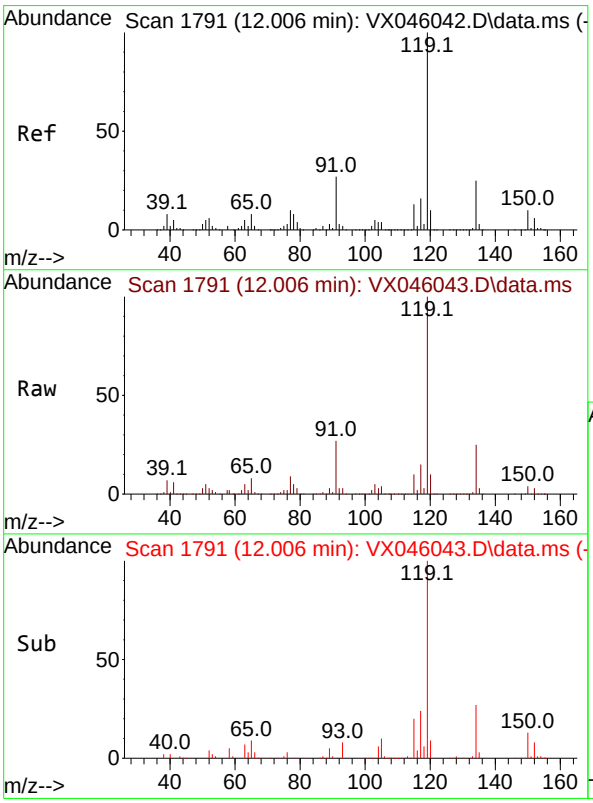
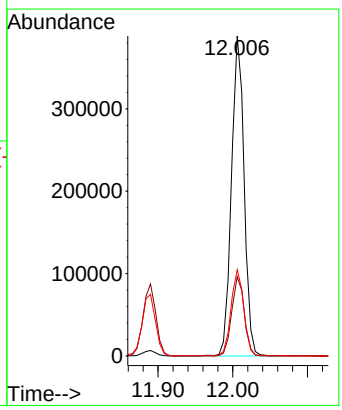
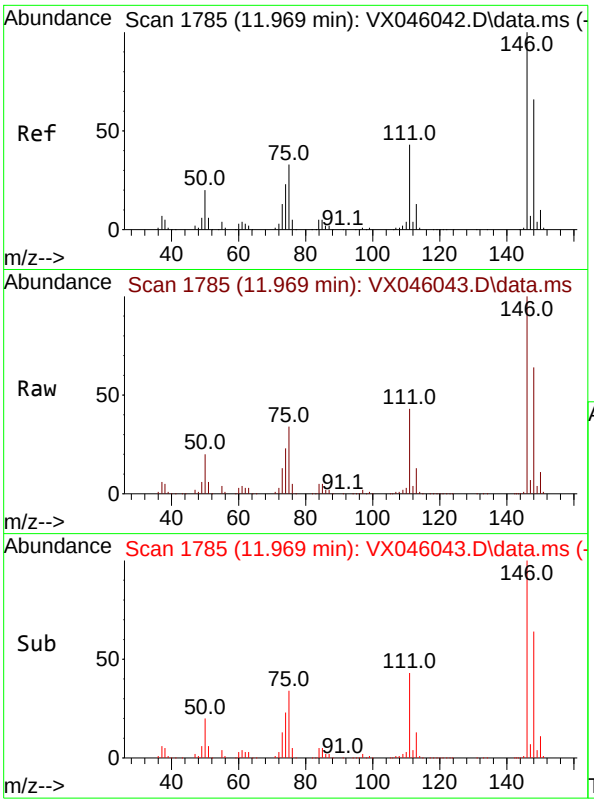


#86
p-Isopropyltoluene
Concen: 77.393 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion:119 Resp: 457898

Ion	Ratio	Lower	Upper
119	100		
134	24.6	12.5	37.5
91	26.8	13.8	41.4

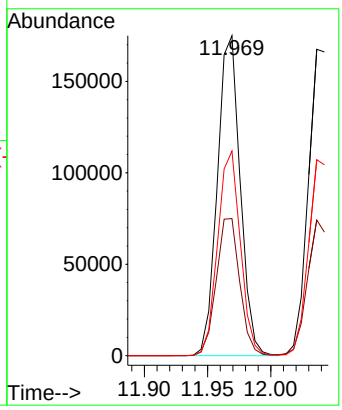




#87
1,3-Dichlorobenzene
Concen: 70.449 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion:146 Resp: 21975

Ion	Ratio	Lower	Upper
146	100		
111	44.1	22.1	66.3
148	63.5	32.1	96.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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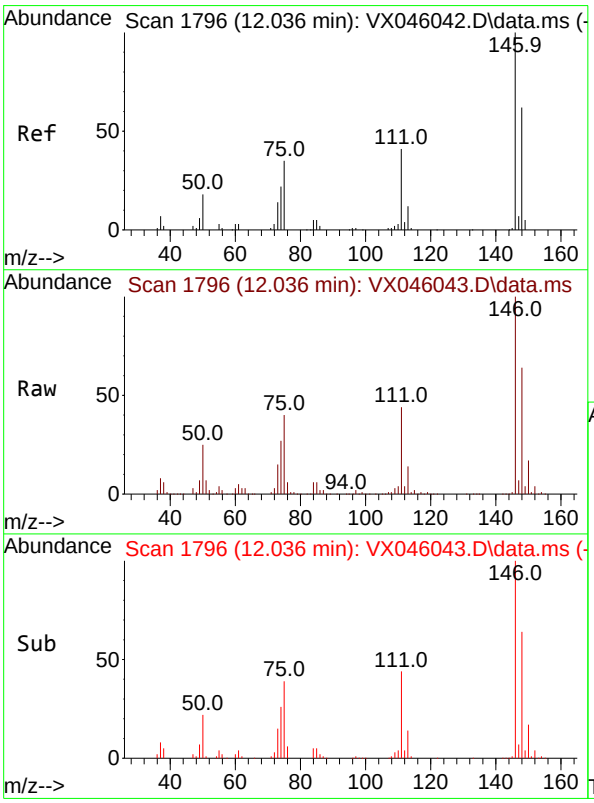
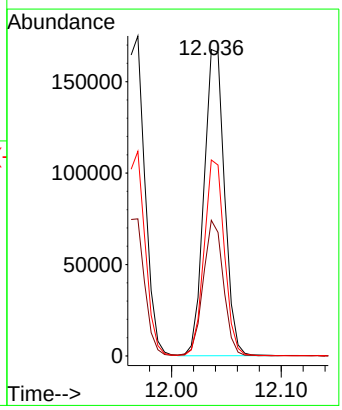
Supervised By :Mahesh Dadoda 05/06/2025

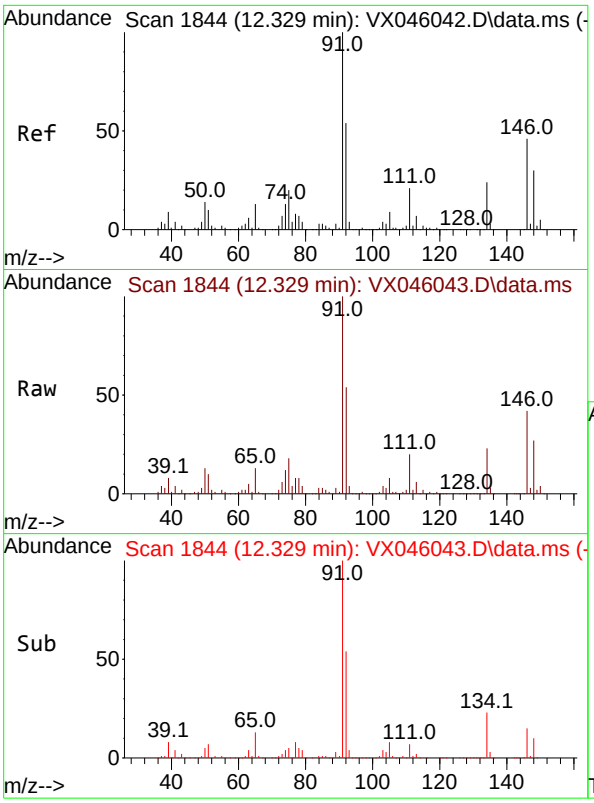


#88
1,4-Dichlorobenzene
Concen: 71.190 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion:146 Resp: 217613

Ion	Ratio	Lower	Upper
146	100		
111	43.4	21.3	63.9
148	63.2	31.9	95.5

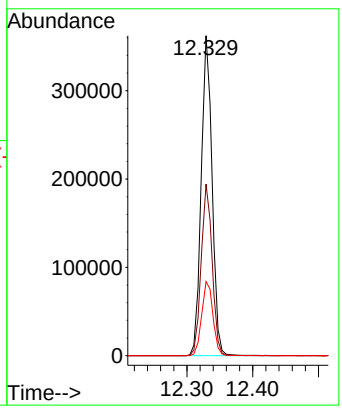




#89
n-Butylbenzene
Concen: 80.996 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 91 Resp: 41660

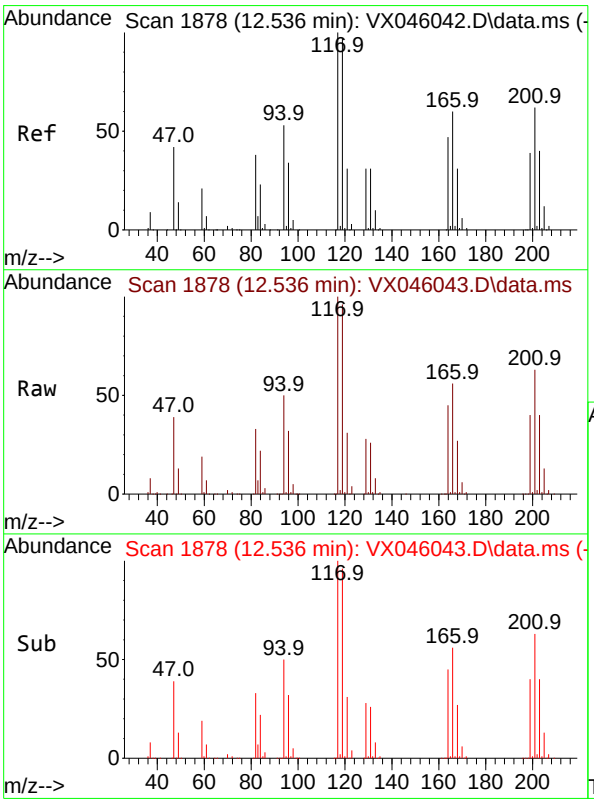
Ion	Ratio	Lower	Upper
91	100		
92	54.0	26.9	80.7
134	24.0	11.8	35.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

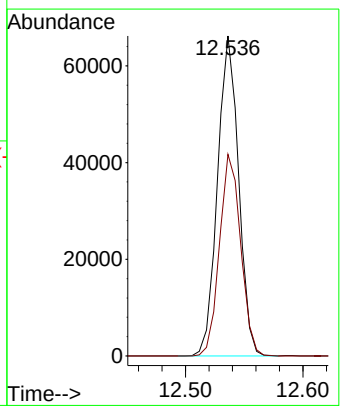
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

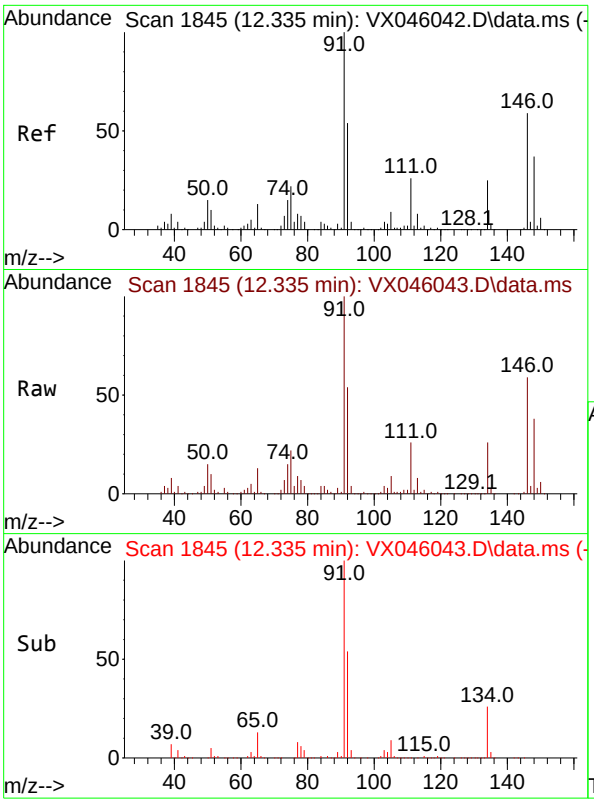


#90
Hexachloroethane
Concen: 74.978 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion:117 Resp: 82528

Ion	Ratio	Lower	Upper
117	100		
201	63.3	31.6	94.7

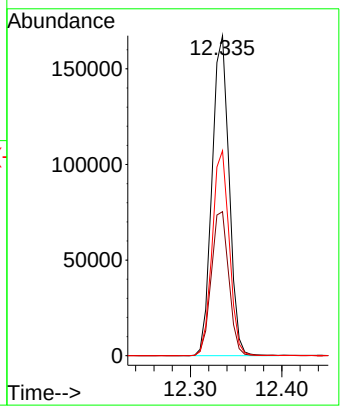




#91
1,2-Dichlorobenzene
Concen: 71.367 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion:146 Resp: 21683

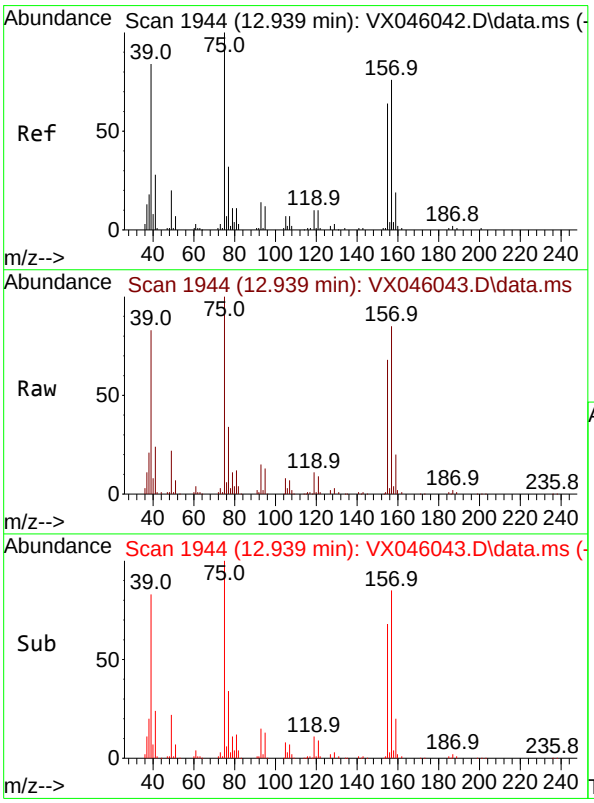
Ion	Ratio	Lower	Upper
146	100		
111	46.2	22.4	67.3
148	64.0	31.6	94.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

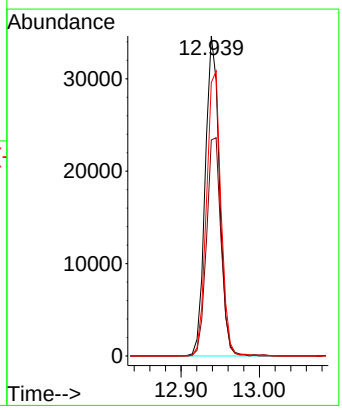
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

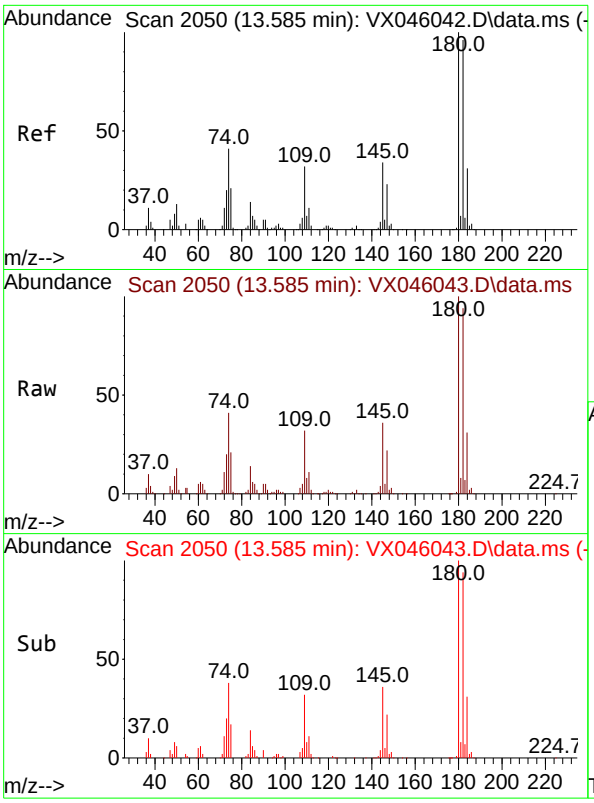


#92
1,2-Dibromo-3-Chloropropane
Concen: 74.512 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 75 Resp: 43673

Ion	Ratio	Lower	Upper
75	100		
155	69.4	34.9	104.8
157	90.1	43.8	131.4





#93
1,2,4-Trichlorobenzene
Concen: 82.605 ug/l
RT: 13.585 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

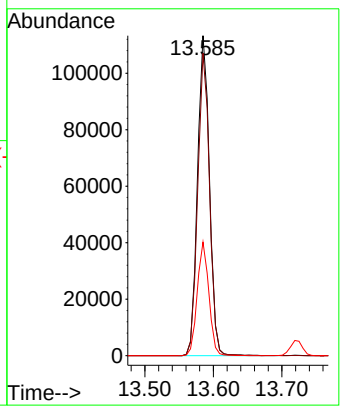
Tgt Ion:180 Resp: 13743

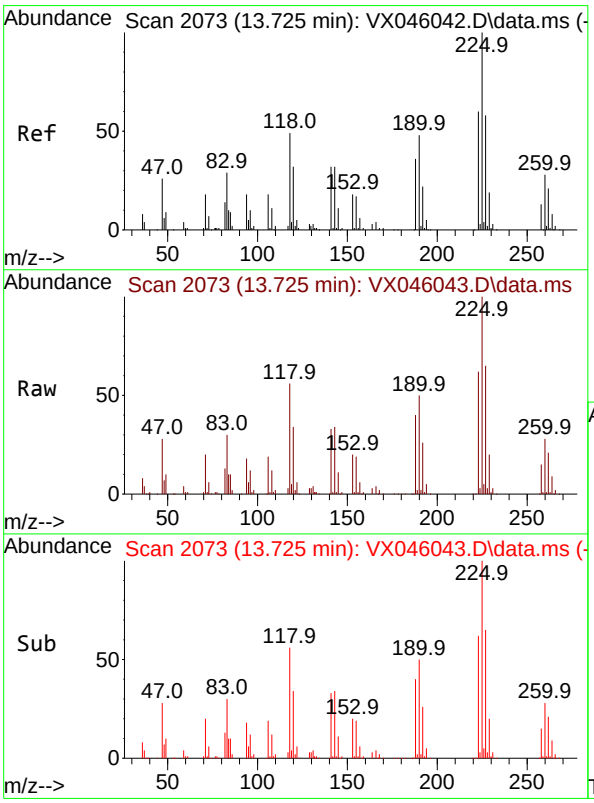
Ion	Ratio	Lower	Upper
180	100		
182	93.7	47.9	143.8
145	34.6	17.1	51.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

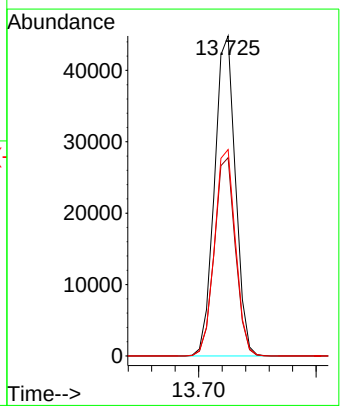


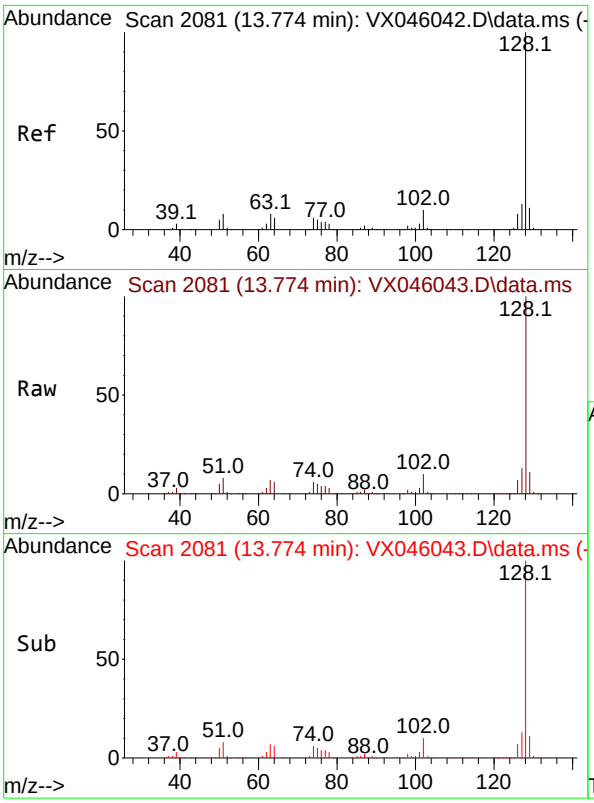


#94
Hexachlorobutadiene
Concen: 71.314 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion:225 Resp: 55494

Ion	Ratio	Lower	Upper
225	100		
223	62.3	30.8	92.4
227	64.9	30.9	92.7

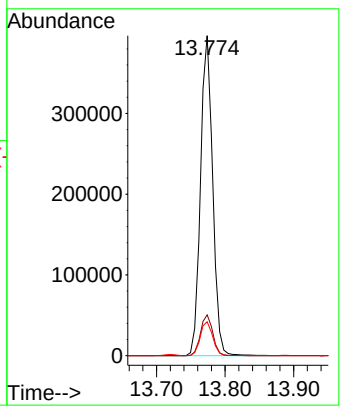




#95
Naphthalene
Concen: 80.842 ug/l
RT: 13.774 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion:128 Resp: 48977

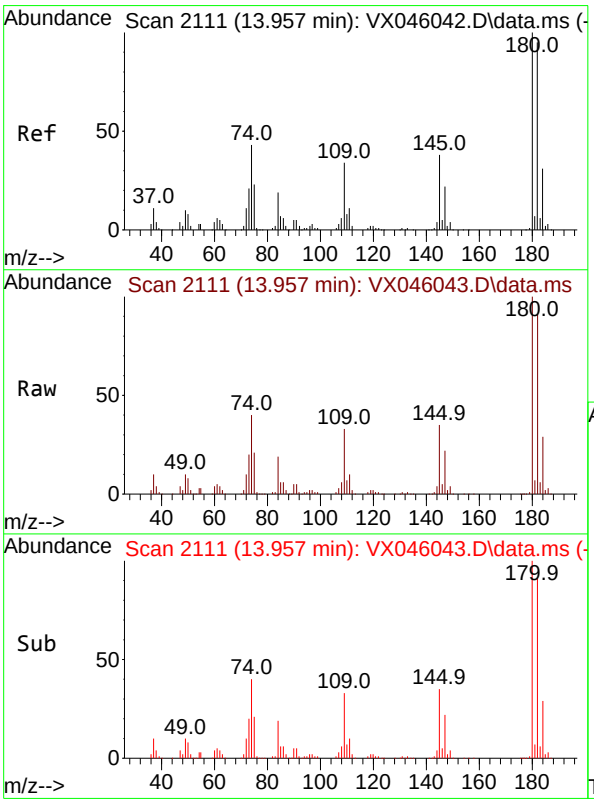
Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.4	15.6
129	10.9	8.6	13.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

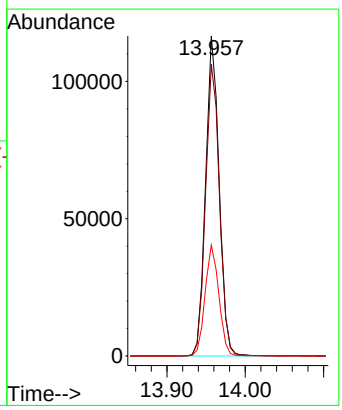
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025



#96
1,2,3-Trichlorobenzene
Concen: 79.981 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion:180 Resp: 139525

Ion	Ratio	Lower	Upper
180	100		
182	93.7	47.8	143.3
145	35.3	18.1	54.3



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046044.D
Acq On : 05 May 2025 12:45
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

Quant Time: May 06 06:11:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	82963	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	144975	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	128557	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	60345	50.000	ug/l	# 0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	231952	93.983	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 187.960%#			
35) Dibromofluoromethane	5.385	113	160168	98.562	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 197.120%#			
50) Toluene-d8	8.647	98	554390	101.252	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 202.500%#			
62) 4-Bromofluorobenzene	11.079	95	217536	109.174	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 218.340%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	217793	118.929	ug/l	98
3) Chloromethane	1.307	50	196843	109.161	ug/l	99
4) Vinyl Chloride	1.374	62	187924	118.953	ug/l	100
5) Bromomethane	1.593	94	83008	103.625	ug/l	95
6) Chloroethane	1.660	64	78806	96.822	ug/l	98
7) Trichlorofluoromethane	1.868	101	245108	101.851	ug/l	97
8) Diethyl Ether	2.136	74	88441	111.791	ug/l	95
9) 1,1,2-Trichlorotrifluo...	2.313	101	161404	112.243	ug/l	99
10) Methyl Iodide	2.441	142	189843	112.441	ug/l	100
11) Tert butyl alcohol	3.002	59	181238	616.119	ug/l	100
12) 1,1-Dichloroethene	2.307	96	155451	111.039	ug/l	99
13) Acrolein	2.239	56	203257	594.872	ug/l	98
14) Allyl chloride	2.654	41	297776	112.561	ug/l	98
15) Acrylonitrile	3.069	53	484854	550.973	ug/l	98
16) Acetone	2.392	43	460820	545.754	ug/l	98
17) Carbon Disulfide	2.502	76	397353	122.499	ug/l	100
18) Methyl Acetate	2.709	43	217885	108.099	ug/l	98
19) Methyl tert-butyl Ether	3.117	73	557210	114.112	ug/l	100
20) Methylene Chloride	2.782	84	172035	100.579	ug/l	96
21) trans-1,2-Dichloroethene	3.081	96	154694	108.241	ug/l	96
22) Diisopropyl ether	3.764	45	577610	116.858	ug/l	90
23) Vinyl Acetate	3.721	43	2655751	608.005	ug/l	100
24) 1,1-Dichloroethane	3.605	63	320083	110.182	ug/l	99
25) 2-Butanone	4.562	43	708463	581.292	ug/l	98
26) 2,2-Dichloropropane	4.471	77	258698	117.548	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	187835	108.994	ug/l	99
28) Bromochloromethane	4.898	49	146923	95.108	ug/l	100
29) Tetrahydrofuran	5.007	42	450456	569.081	ug/l	99
30) Chloroform	5.087	83	323659	107.208	ug/l	95
31) Cyclohexane	5.458	56	286312	116.934	ug/l	99
32) 1,1,1-Trichloroethane	5.373	97	295702	113.572	ug/l	98
36) 1,1-Dichloropropene	5.684	75	219731	116.462	ug/l	99
37) Ethyl Acetate	4.715	43	274312	115.889	ug/l	99
38) Carbon Tetrachloride	5.666	117	250916	115.760	ug/l	99
39) Methylcyclohexane	7.373	83	286311	121.107	ug/l	97
40) Benzene	6.031	78	642178	109.813	ug/l	99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046044.D
Acq On : 05 May 2025 12:45
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 06 06:11:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.922	41	151424	115.139	ug/l		98
42) 1,2-Dichloroethane	6.080	62	271992	112.492	ug/l		99
43) Isopropyl Acetate	6.342	43	447871	123.780	ug/l		100
44) Trichloroethene	7.117	130	157641	114.032	ug/l		96
45) 1,2-Dichloropropane	7.428	63	164505	113.217	ug/l		99
46) Dibromomethane	7.574	93	125846	109.869	ug/l		100
47) Bromodichloromethane	7.818	83	258326	116.365	ug/l		98
48) Methyl methacrylate	7.690	41	231040	124.356	ug/l		99
49) 1,4-Dioxane	7.665	88	82800	2241.695	ug/l		98
51) 4-Methyl-2-Pentanone	8.574	43	1371275	577.831	ug/l		100
52) Toluene	8.714	92	393323	113.430	ug/l		100
53) t-1,3-Dichloropropene	8.976	75	257233	138.001	ug/l		99
54) cis-1,3-Dichloropropene	8.366	75	271054	124.658	ug/l		95
55) 1,1,2-Trichloroethane	9.147	97	154932	110.551	ug/l		97
56) Ethyl methacrylate	9.116	69	277921	127.968	ug/l		99
57) 1,3-Dichloropropane	9.305	76	272814	109.813	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.244	63	680608	697.344	ug/l		100
59) 2-Hexanone	9.433	43	1028597	571.094	ug/l		99
60) Dibromochloromethane	9.519	129	187497	122.915	ug/l		98
61) 1,2-Dibromoethane	9.604	107	165634	115.087	ug/l		97
64) Tetrachloroethene	9.269	164	132488	100.918	ug/l		96
65) Chlorobenzene	10.080	112	429656	108.615	ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.159	131	152173	115.333	ug/l		99
67) Ethyl Benzene	10.189	91	785121	116.421	ug/l		99
68) m/p-Xylenes	10.299	106	570913	234.349	ug/l		100
69) o-Xylene	10.640	106	279906	113.990	ug/l		99
70) Styrene	10.653	104	474254	120.694	ug/l		99
71) Bromoform	10.799	173	125986	127.128	ug/l	#	99
73) Isopropylbenzene	10.957	105	752337	114.312	ug/l		99
74) N-amyl acetate	10.842	43	396877	120.944	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.213	83	243532	104.018	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	213744m	84.960	ug/l		
77) Bromobenzene	11.195	156	167934	110.297	ug/l		99
78) n-propylbenzene	11.305	91	881218	119.448	ug/l		100
79) 2-Chlorotoluene	11.360	91	534560	107.514	ug/l		100
80) 1,3,5-Trimethylbenzene	11.451	105	616477	112.825	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	81372	134.609	ug/l		93
82) 4-Chlorotoluene	11.451	91	611736	111.948	ug/l		100
83) tert-Butylbenzene	11.713	119	617473	115.065	ug/l		100
84) 1,2,4-Trimethylbenzene	11.750	105	623456	114.236	ug/l		99
85) sec-Butylbenzene	11.890	105	786293	118.023	ug/l		99
86) p-Isopropyltoluene	12.006	119	651531	121.113	ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	313100	110.394	ug/l		100
88) 1,4-Dichlorobenzene	12.036	146	311752	112.167	ug/l		100
89) n-Butylbenzene	12.329	91	605783	129.533	ug/l		100
90) Hexachloroethane	12.536	117	123188	123.091	ug/l		100
91) 1,2-Dichlorobenzene	12.335	146	308039	111.506	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	64438	120.915	ug/l		99
93) 1,2,4-Trichlorobenzene	13.585	180	203255	134.366	ug/l		98
94) Hexachlorobutadiene	13.719	225	80558	113.857	ug/l		99
95) Naphthalene	13.774	128	721236	130.929	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	200379	126.331	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046044.D
Acq On : 05 May 2025 12:45
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

Quant Time: May 06 06:11:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

ICAL Form

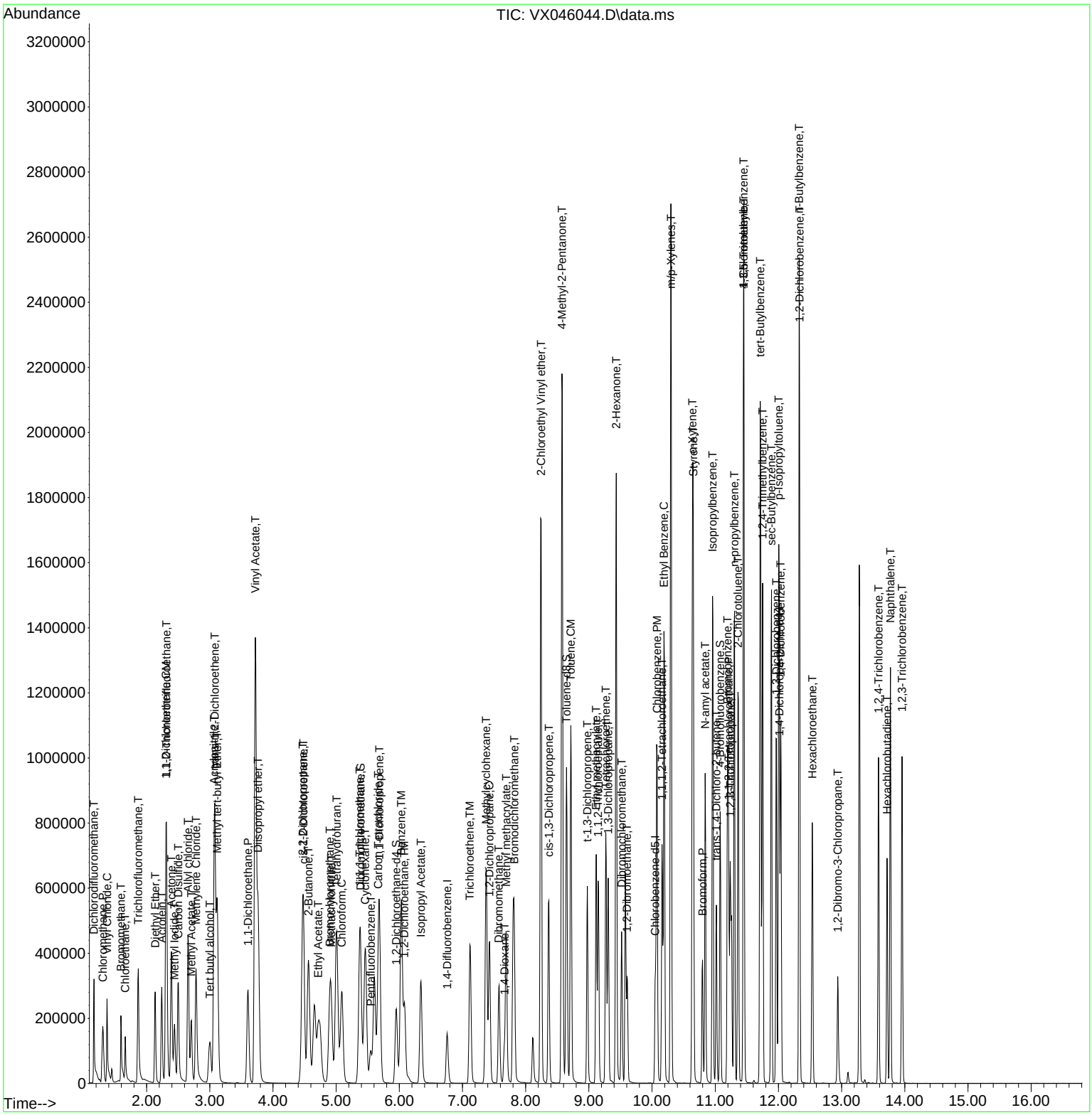
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046044.D
Acq On : 05 May 2025 12:45
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

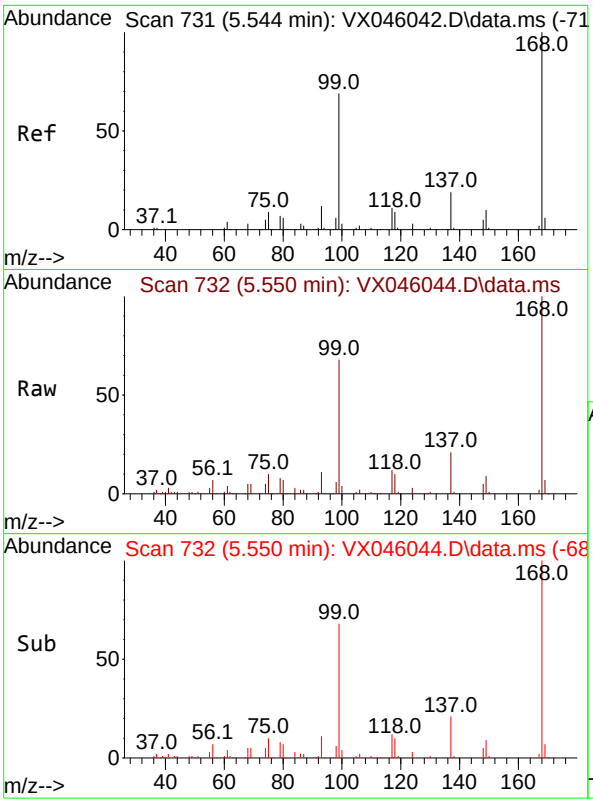
Quant Time: May 06 06:11:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

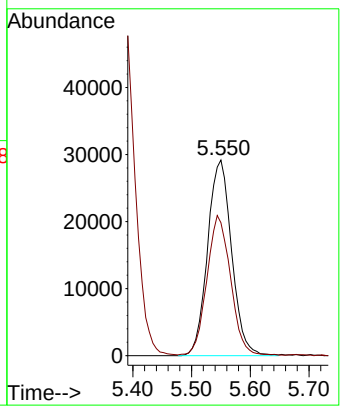




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion:168 Resp: 8296

Ion	Ratio	Lower	Upper
168	100		
99	67.6	54.9	82.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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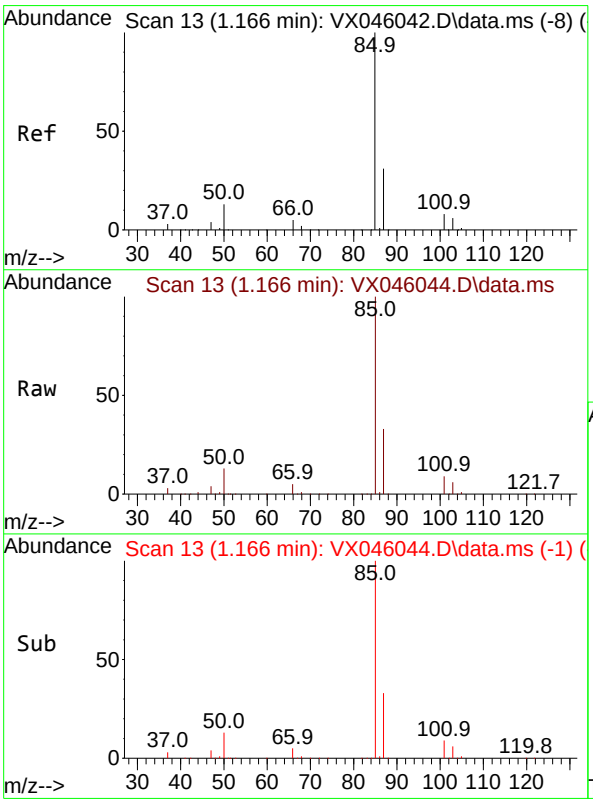
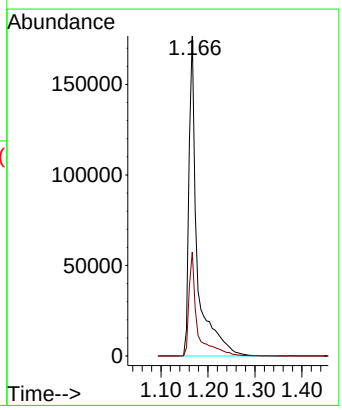
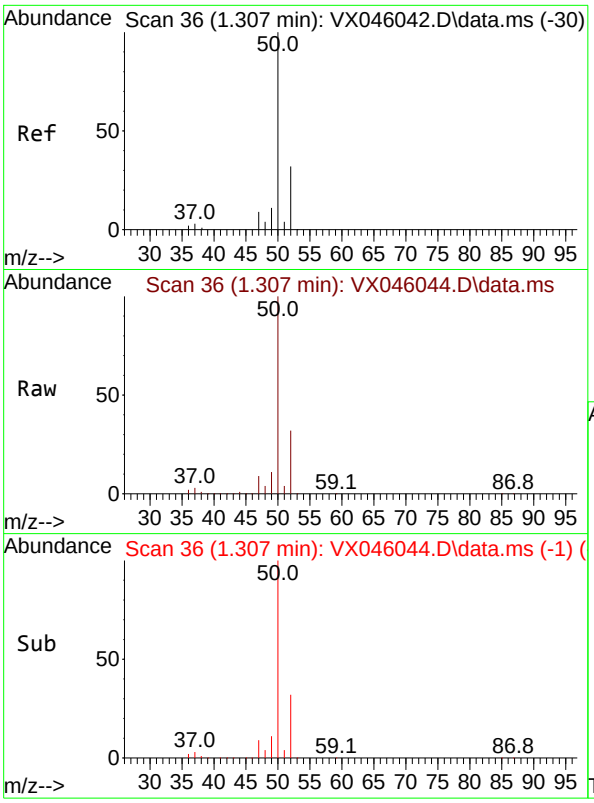


#2
Dichlorodifluoromethane
Concen: 118.929 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 85 Resp: 217793

Ion	Ratio	Lower	Upper
85	100		
87	32.5	15.7	47.1





#3
Chloromethane
Concen: 109.161 ug/l
RT: 1.307 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 50 Resp: 19684

Ion	Ratio	Lower	Upper
50	100		
52	32.5	25.4	38.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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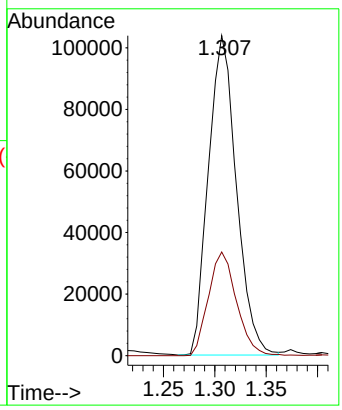
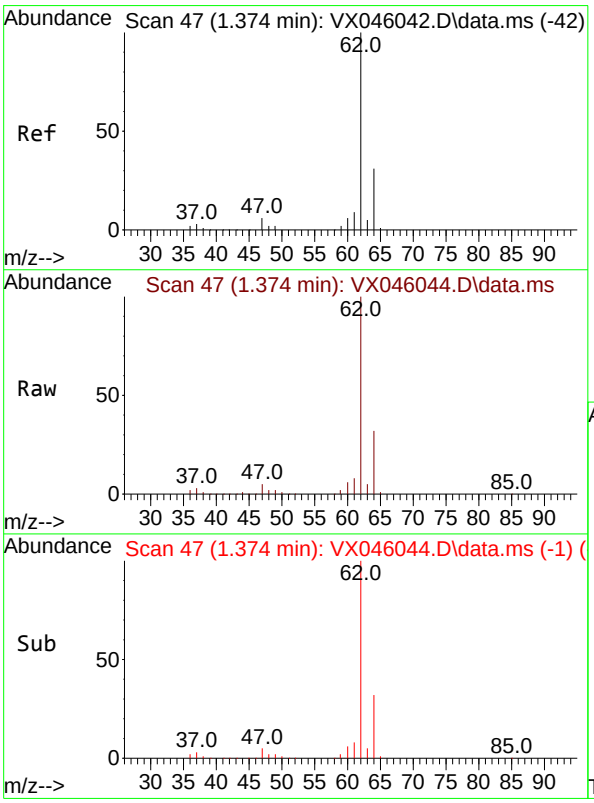
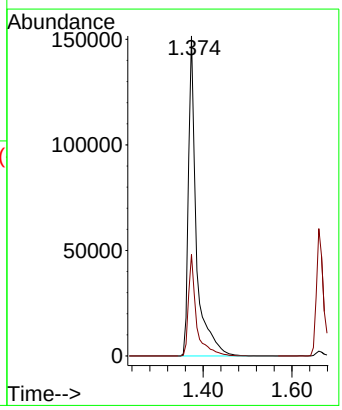


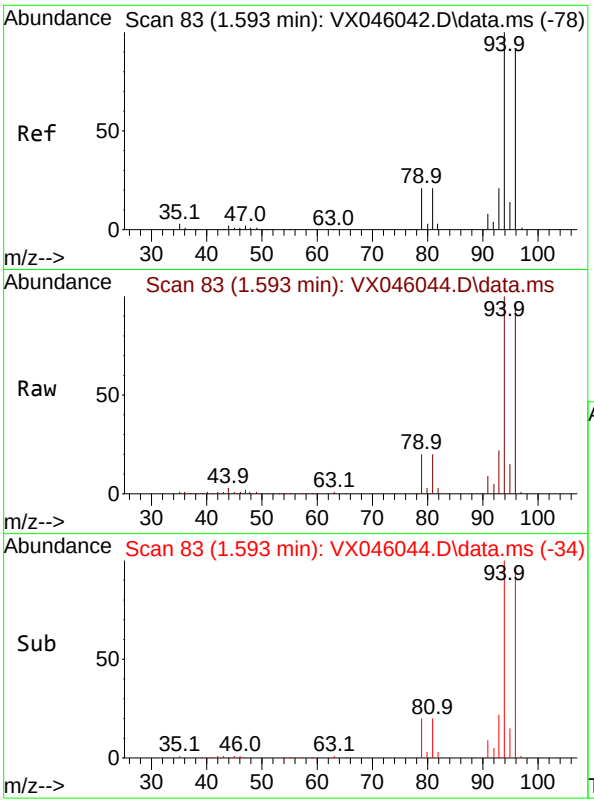


#4
Vinyl Chloride
Concen: 118.953 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 62 Resp: 187924

Ion	Ratio	Lower	Upper
62	100		
64	31.7	25.2	37.8

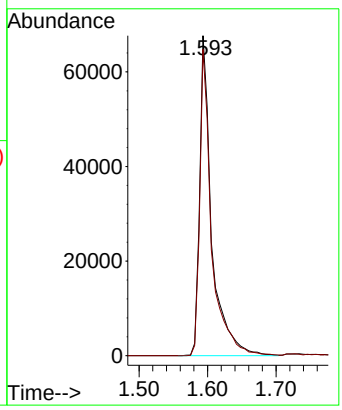




#5
Bromomethane
Concen: 103.625 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 94 Resp: 8300

Ion	Ratio	Lower	Upper
94	100		
96	95.8	72.8	109.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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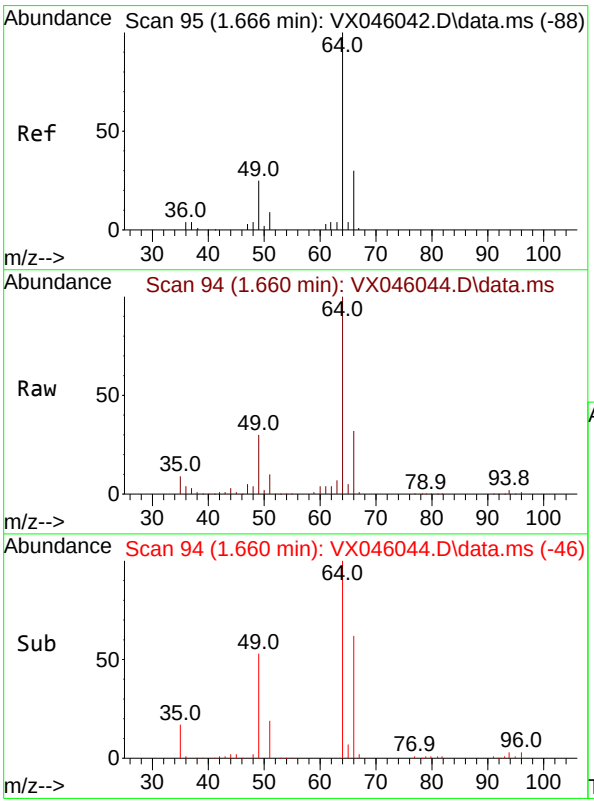
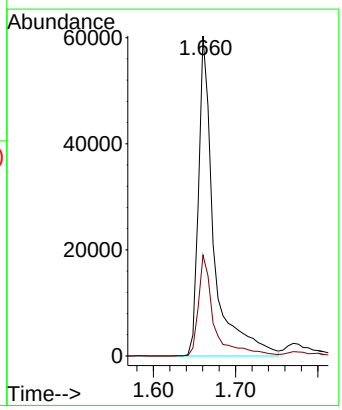
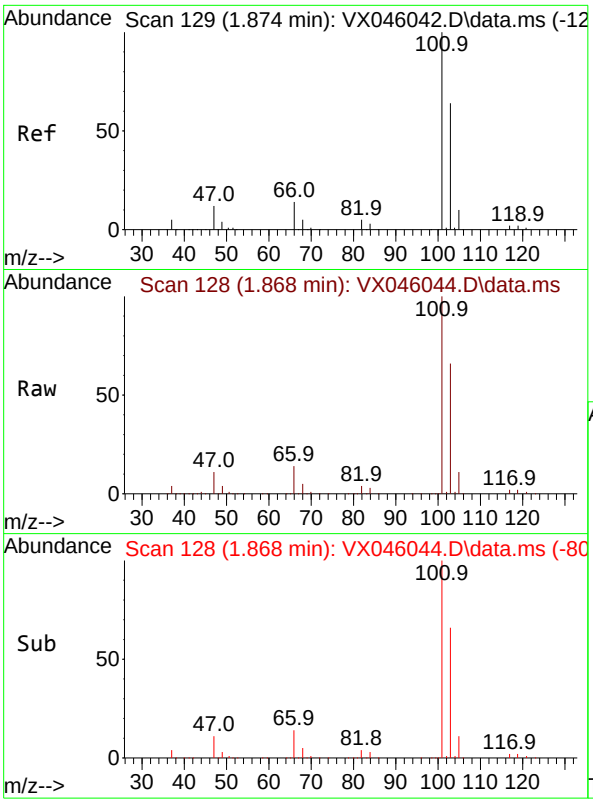


#6
Chloroethane
Concen: 96.822 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 64 Resp: 78806

Ion	Ratio	Lower	Upper
64	100		
66	31.3	24.3	36.5

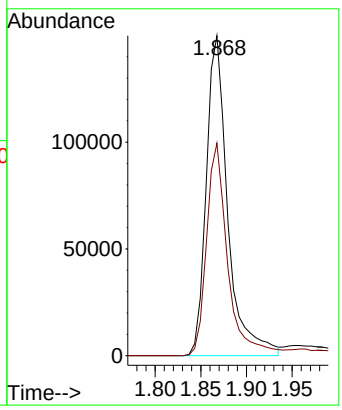




#7
Trichlorofluoromethane
Concen: 101.851 ug/l
RT: 1.868 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion:101 Resp: 24510

Ion	Ratio	Lower	Upper
101	100		
103	66.4	51.0	76.4



Instrument :
MSVOA_X
ClientSampleId :
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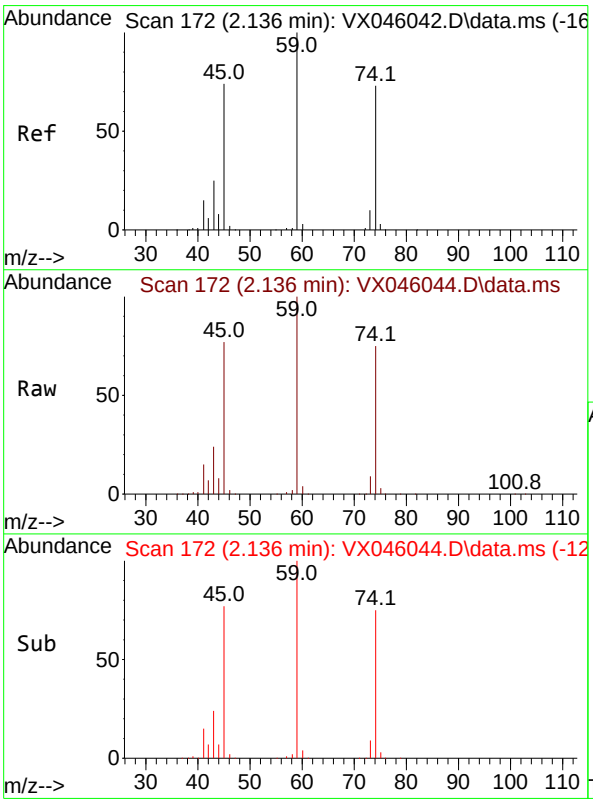
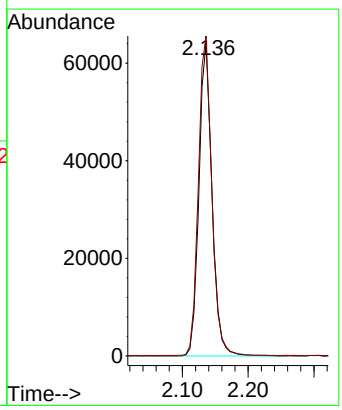
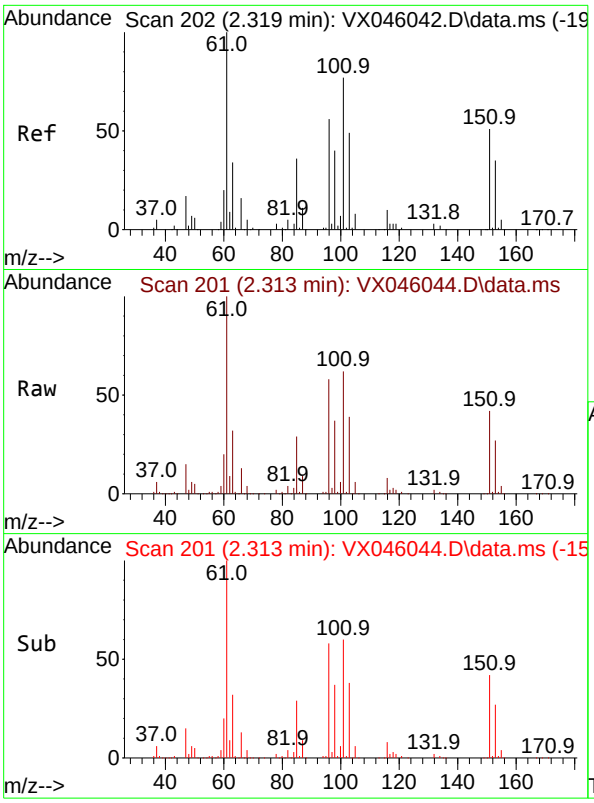


#8
Diethyl Ether
Concen: 111.791 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 74 Resp: 88441

Ion	Ratio	Lower	Upper
74	100		
45	104.7	54.9	164.8

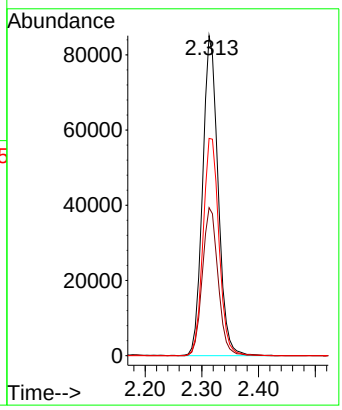




#9
1,1,2-Trichlorotrifluoroethane
Concen: 112.243 ug/l
RT: 2.313 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion:101 Resp: 16140

Ion	Ratio	Lower	Upper
101	100		
85	46.8	38.6	58.0
151	69.8	55.2	82.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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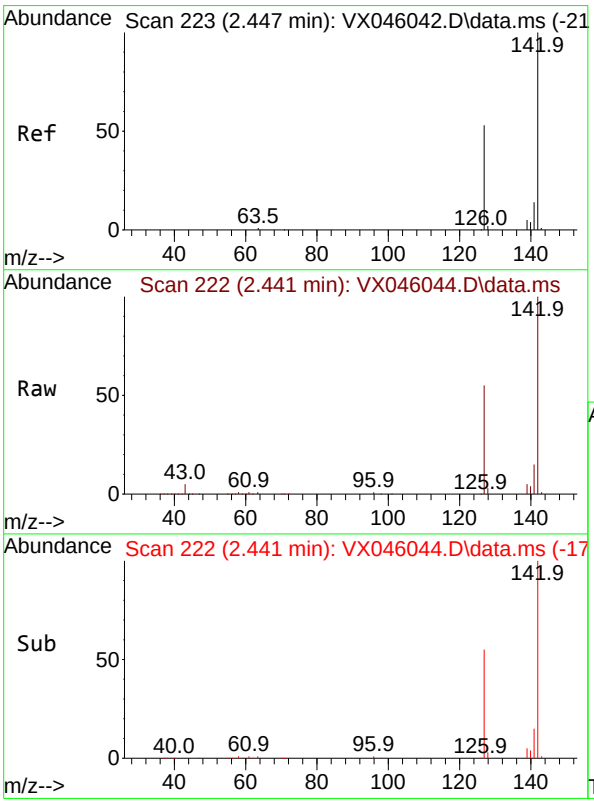
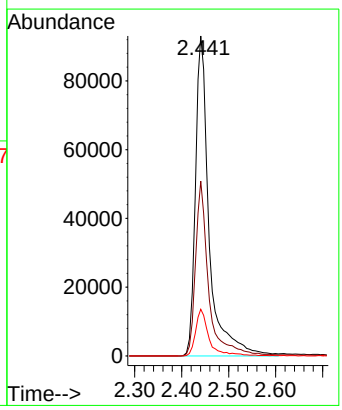
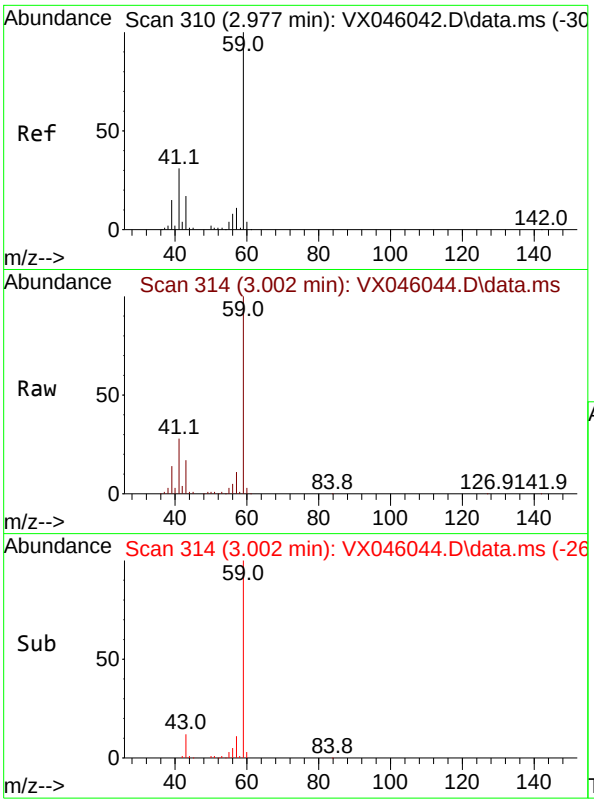


#10
Methyl Iodide
Concen: 112.441 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion:142 Resp: 189843

Ion	Ratio	Lower	Upper
142	100		
127	52.4	41.7	62.5
141	14.4	11.5	17.3

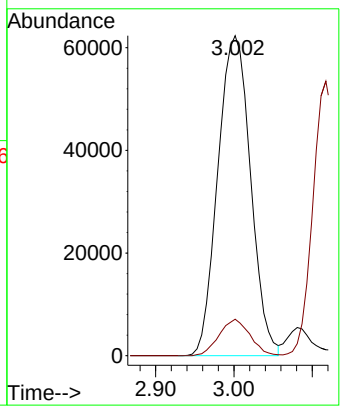




#11
Tert butyl alcohol
Concen: 616.119 ug/l
RT: 3.002 min Scan# 3
Delta R.T. 0.024 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 59 Resp: 18123

Ion	Ratio	Lower	Upper
59	100		
57	10.8	8.6	12.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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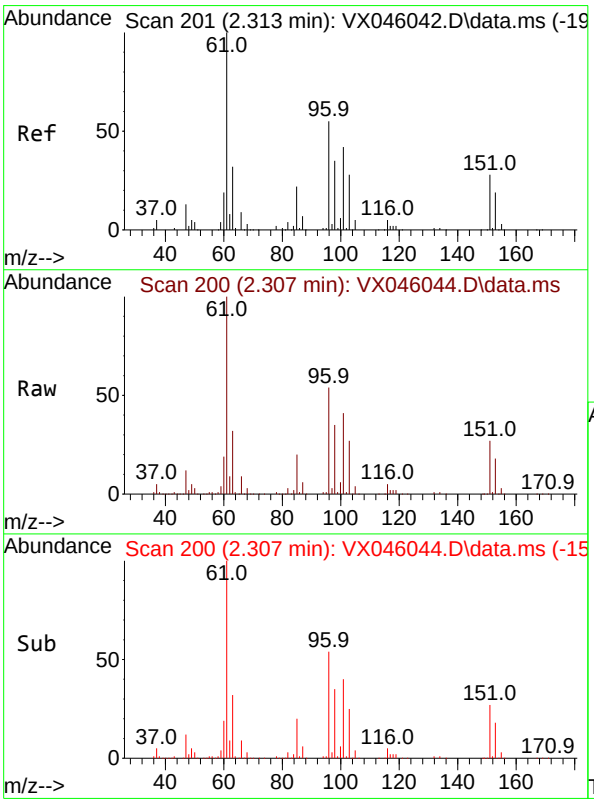
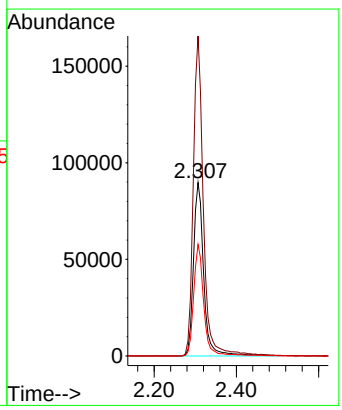
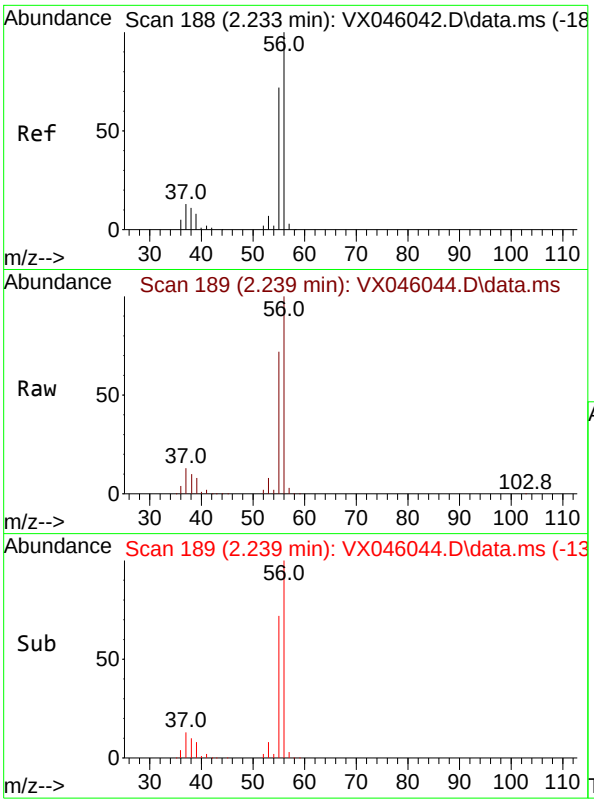


#12
1,1-Dichloroethene
Concen: 111.039 ug/l
RT: 2.307 min Scan# 200
Delta R.T. -0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 96 Resp: 155451

Ion	Ratio	Lower	Upper
96	100		
61	184.5	146.2	219.2
98	64.3	51.0	76.6

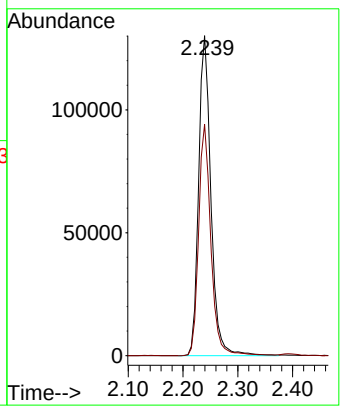




#13
Acrolein
Concen: 594.872 ug/l
RT: 2.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 56 Resp: 20325

Ion	Ratio	Lower	Upper
56	100		
55	72.1	56.2	84.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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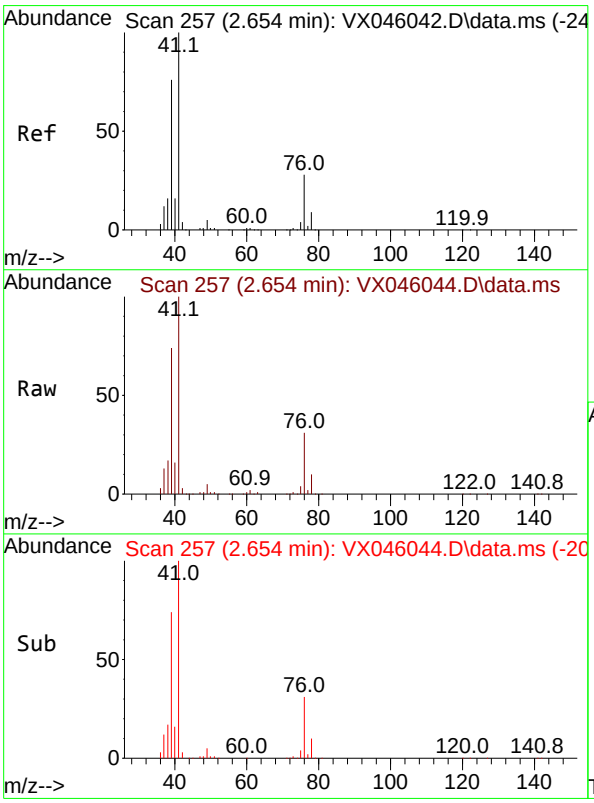
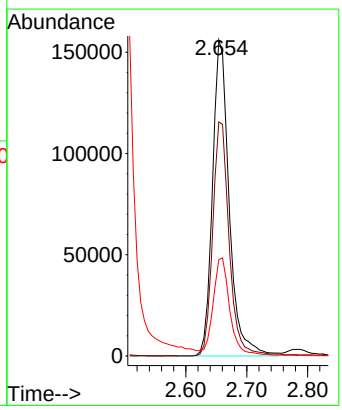
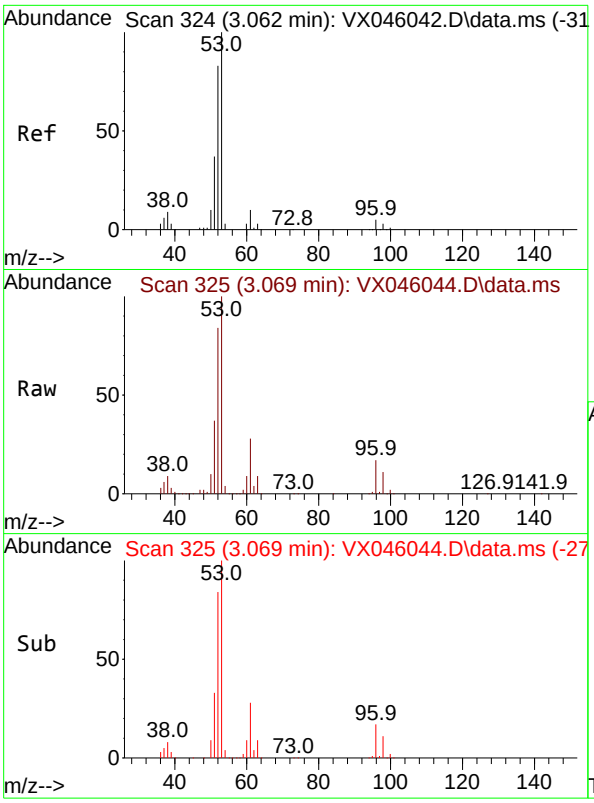


#14
Allyl chloride
Concen: 112.561 ug/l
RT: 2.654 min Scan# 257
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 41 Resp: 297776

Ion	Ratio	Lower	Upper
41	100		
39	73.7	60.6	90.8
76	31.8	24.9	37.3





#15
Acrylonitrile
Concen: 550.973 ug/l
RT: 3.069 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 53 Resp: 48485

Ion	Ratio	Lower	Upper
53	100		
52	84.2	65.3	97.9
51	37.5	29.8	44.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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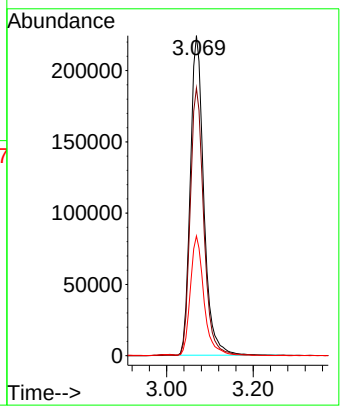
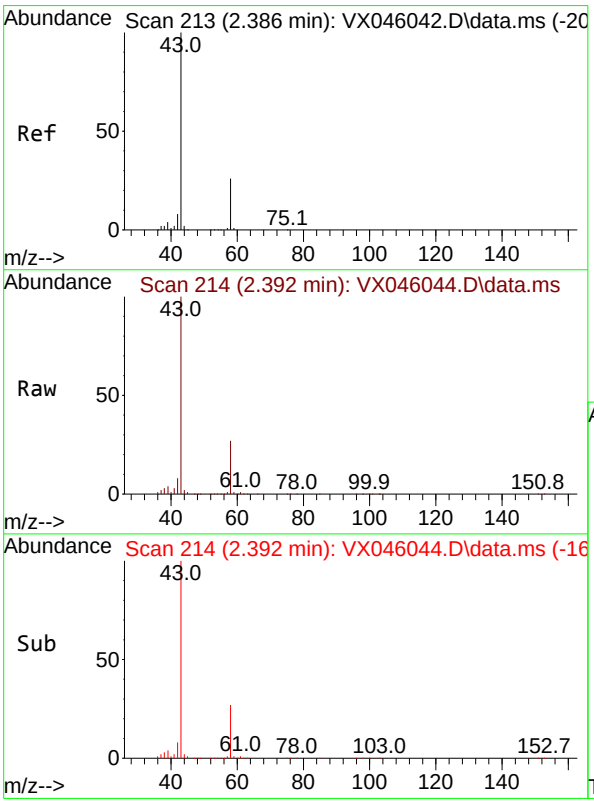
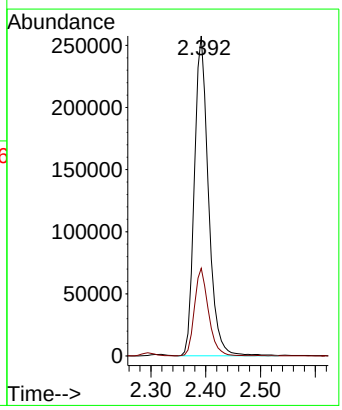


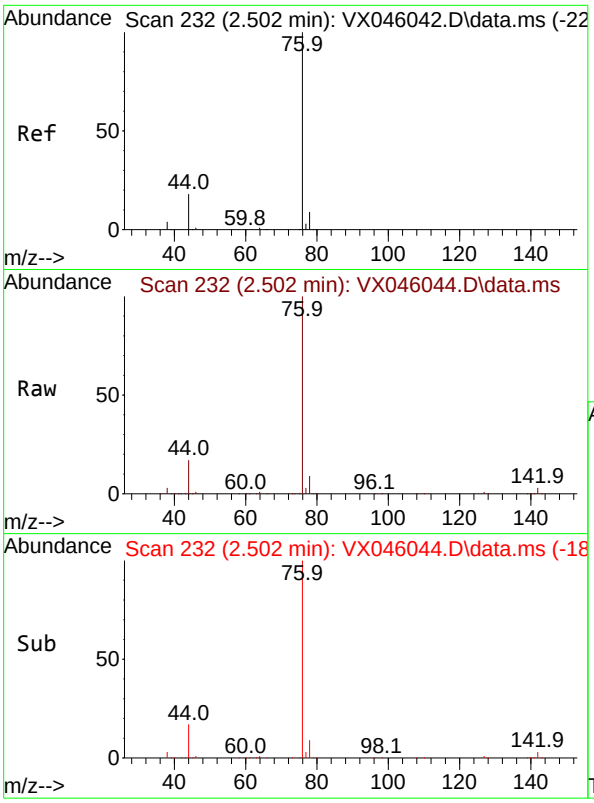


#16
Acetone
Concen: 545.754 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 43 Resp: 460820

Ion	Ratio	Lower	Upper
43	100		
58	27.3	21.2	31.8

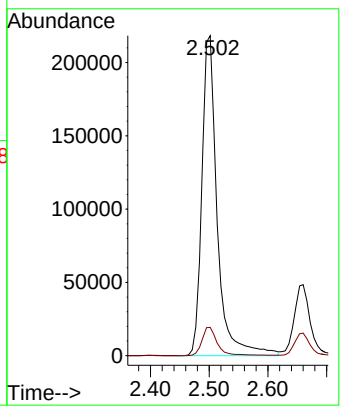




#17
Carbon Disulfide
Concen: 122.499 ug/l
RT: 2.502 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 76 Resp: 39735

Ion	Ratio	Lower	Upper
76	100		
78	8.8	7.0	10.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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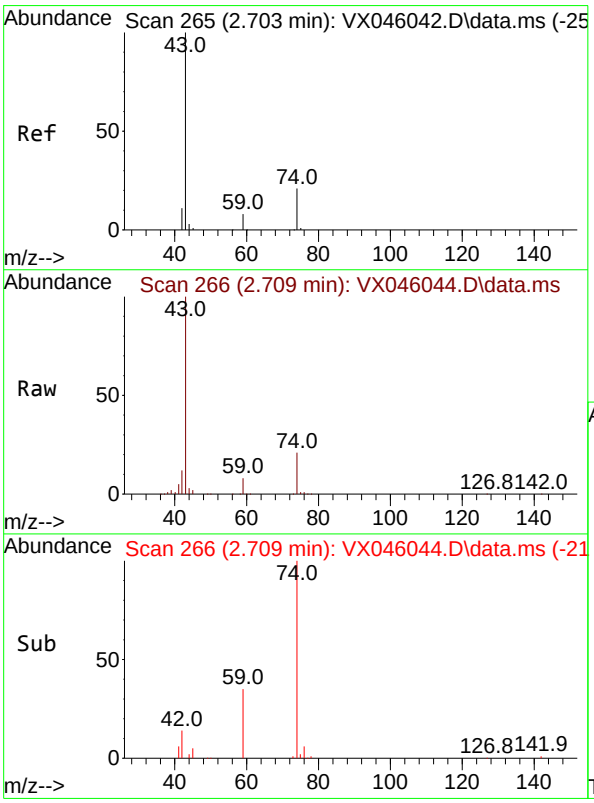
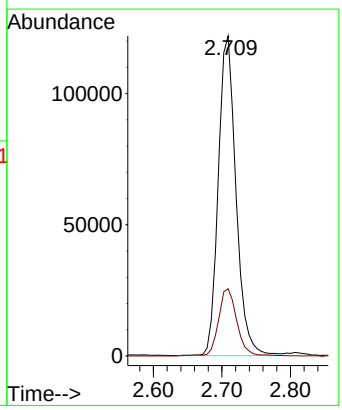
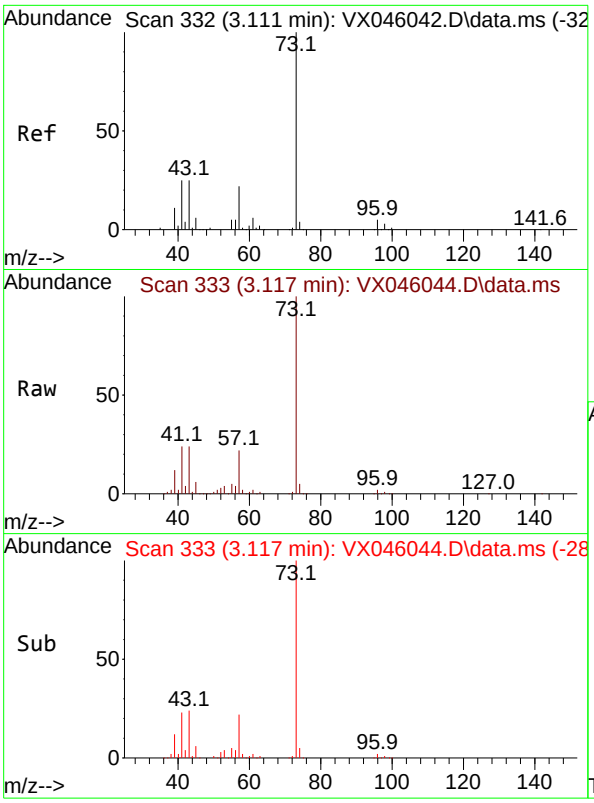


#18
Methyl Acetate
Concen: 108.099 ug/l
RT: 2.709 min Scan# 266
Delta R.T. 0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 43 Resp: 217885

Ion	Ratio	Lower	Upper
43	100		
74	21.9	16.7	25.1

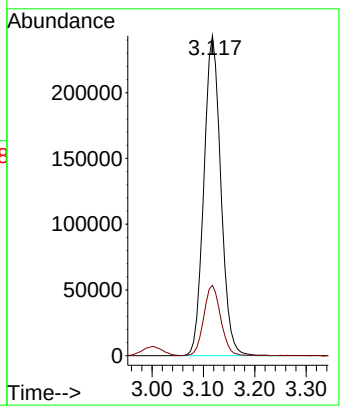




#19
Methyl tert-butyl Ether
Concen: 114.112 ug/l
RT: 3.117 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 73 Resp: 55721

Ion	Ratio	Lower	Upper
73	100		
57	22.0	17.7	26.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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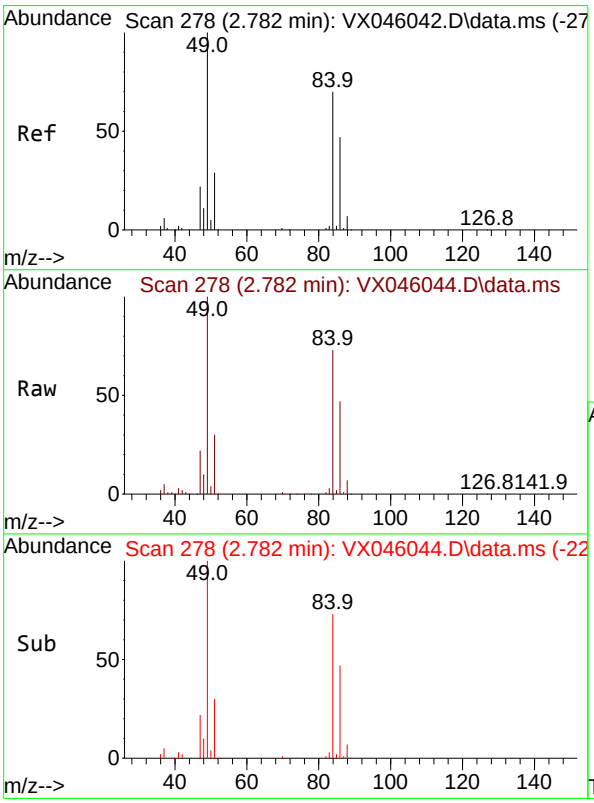
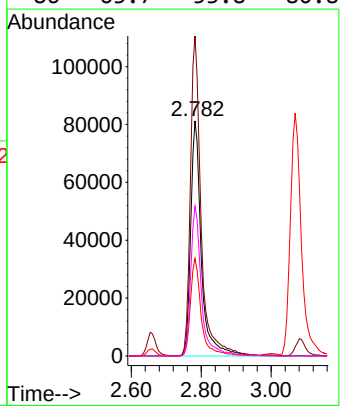
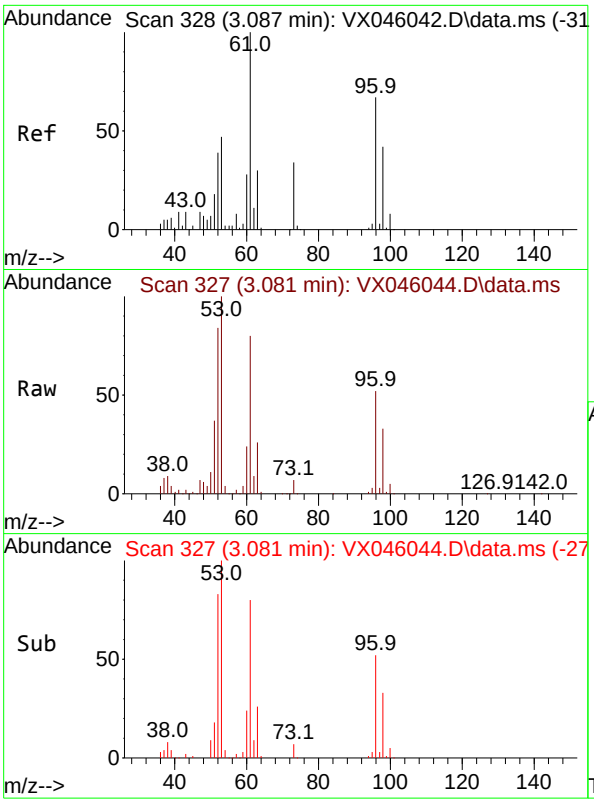


#20
Methylene Chloride
Concen: 100.579 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 84 Resp: 172035

Ion	Ratio	Lower	Upper
84	100		
49	136.0	113.9	170.9
51	41.5	33.5	50.3
86	63.7	53.8	80.8

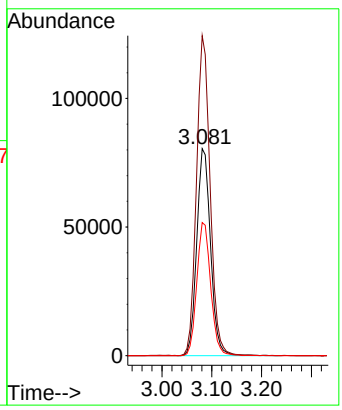




#21
trans-1,2-Dichloroethene
Concen: 108.241 ug/l
RT: 3.081 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 96 Resp: 15469

Ion	Ratio	Lower	Upper
96	100		
61	154.6	119.5	179.3
98	64.3	50.0	75.0



Instrument :
MSVOA_X
ClientSampleId :
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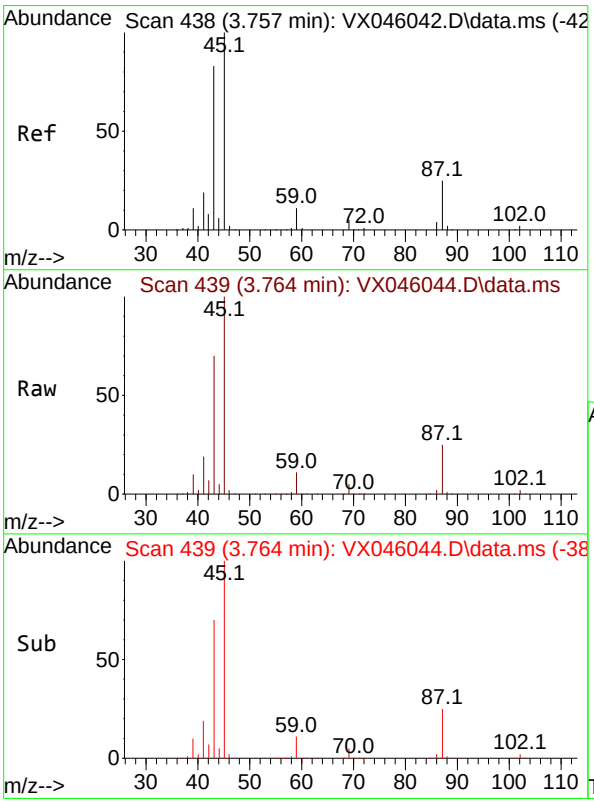
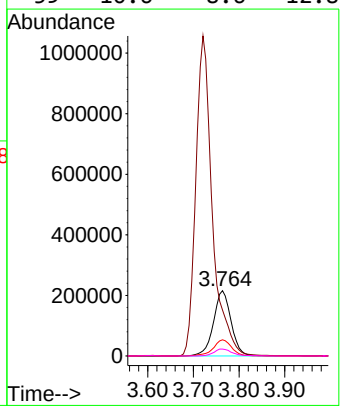
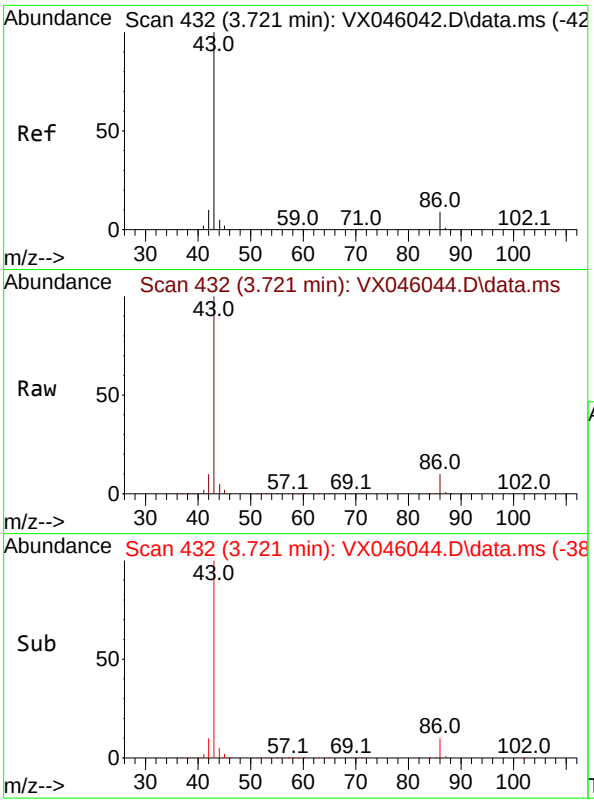


#22
Diisopropyl ether
Concen: 116.858 ug/l
RT: 3.764 min Scan# 439
Delta R.T. 0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 45 Resp: 577610

Ion	Ratio	Lower	Upper
45	100		
43	70.3	66.6	100.0
87	24.7	19.8	29.6
59	10.6	8.6	12.8

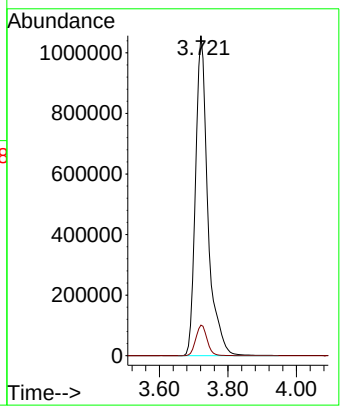




#23
Vinyl Acetate
Concen: 608.005 ug/l
RT: 3.721 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 43 Resp: 265575

Ion	Ratio	Lower	Upper
43	100		
86	9.6	7.5	11.3



Instrument :
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ClientSampleId :
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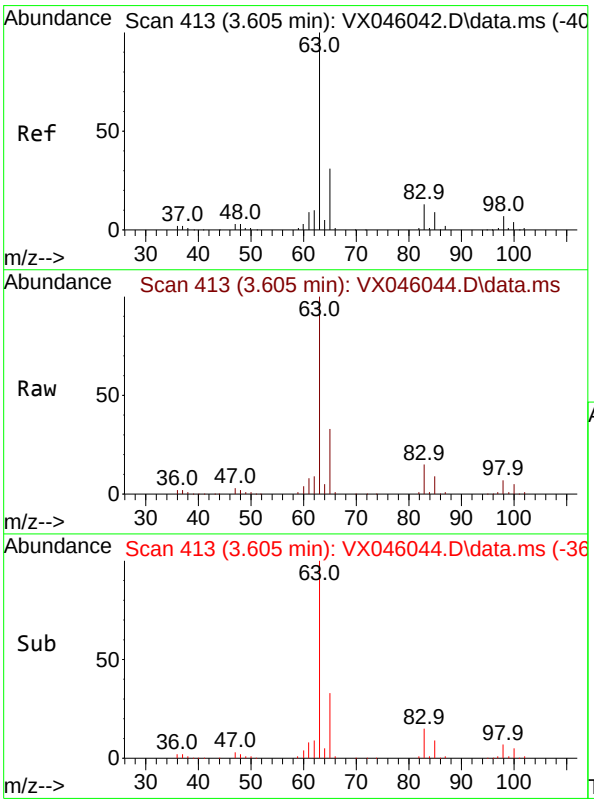
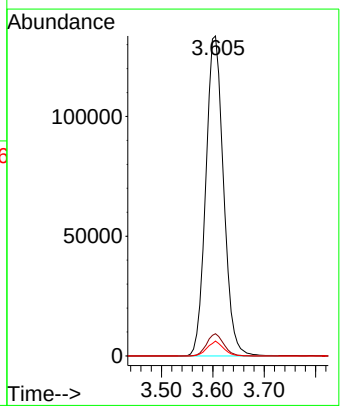
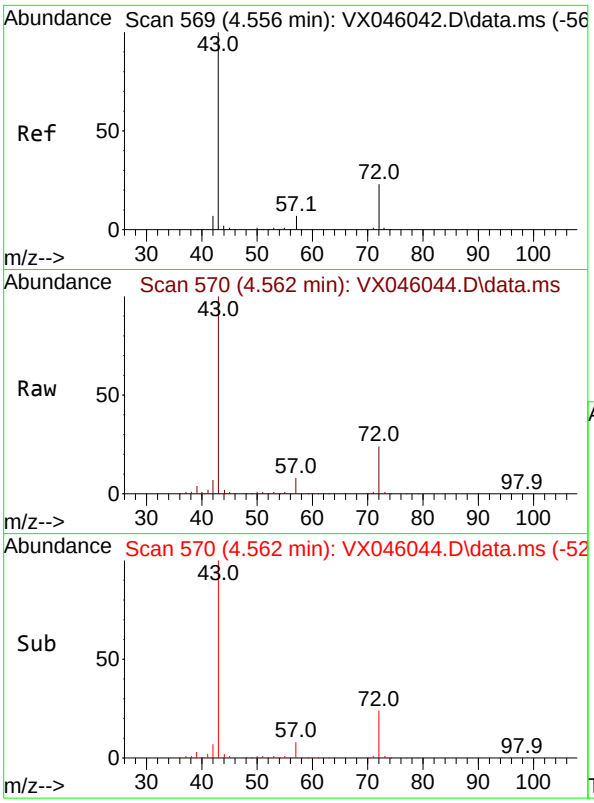


#24
1,1-Dichloroethane
Concen: 110.182 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 63 Resp: 320083

Ion	Ratio	Lower	Upper
63	100		
98	7.0	3.6	10.8
100	4.7	2.1	6.3

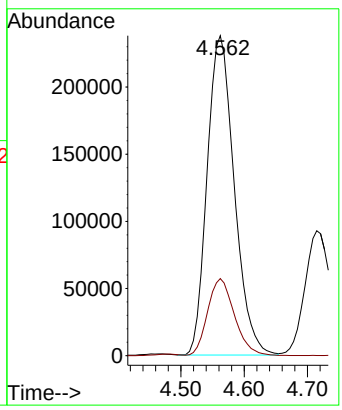




#25
2-Butanone
Concen: 581.292 ug/l
RT: 4.562 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 43 Resp: 70846

Ion	Ratio	Lower	Upper
43	100		
72	24.0	18.4	27.6



Instrument :
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ClientSampleId :
VSTDICC150

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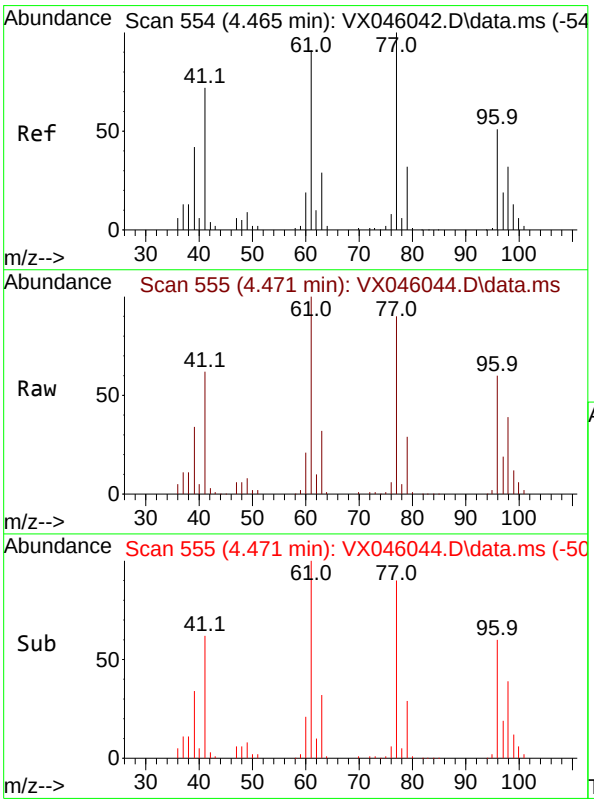
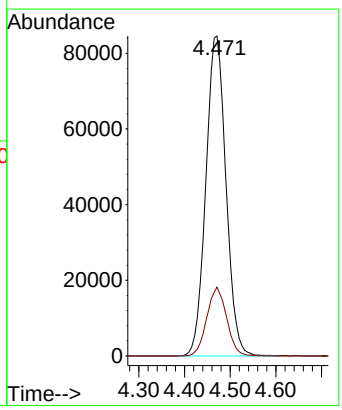
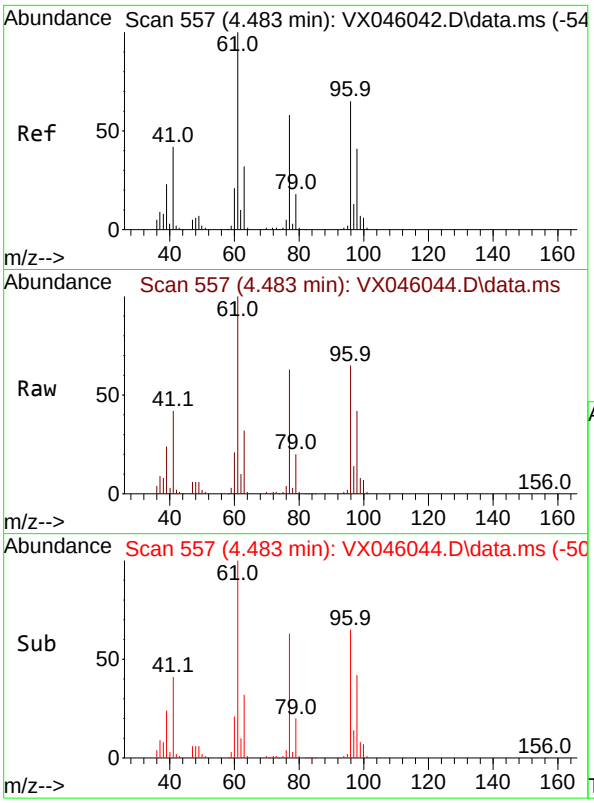


#26
2,2-Dichloropropane
Concen: 117.548 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 77 Resp: 258698

Ion	Ratio	Lower	Upper
77	100		
97	21.1	10.5	31.5





#27
cis-1,2-Dichloroethene
Concen: 108.994 ug/l
RT: 4.483 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 96 Resp: 18783

Ion	Ratio	Lower	Upper
96	100		
61	159.8	0.0	322.8
98	64.8	0.0	129.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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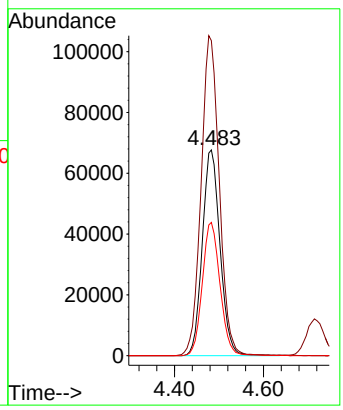
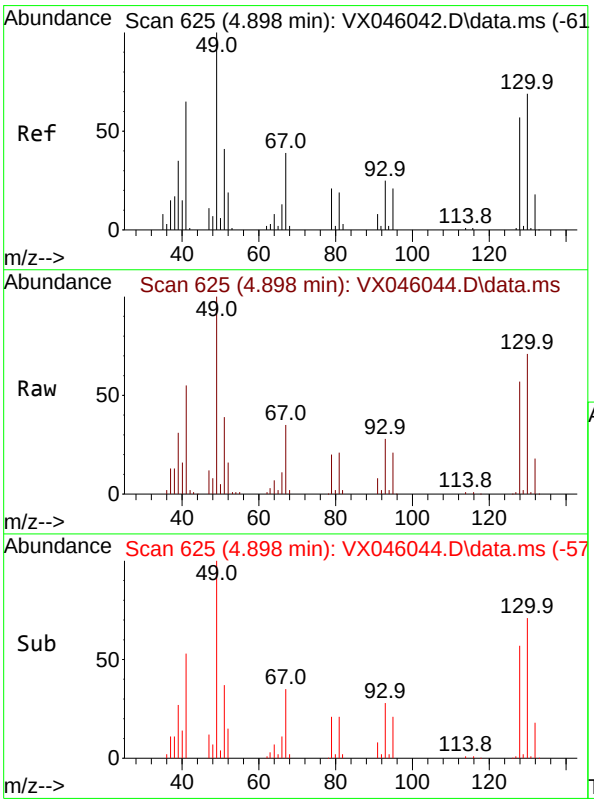
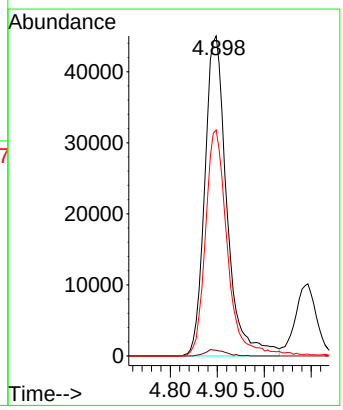


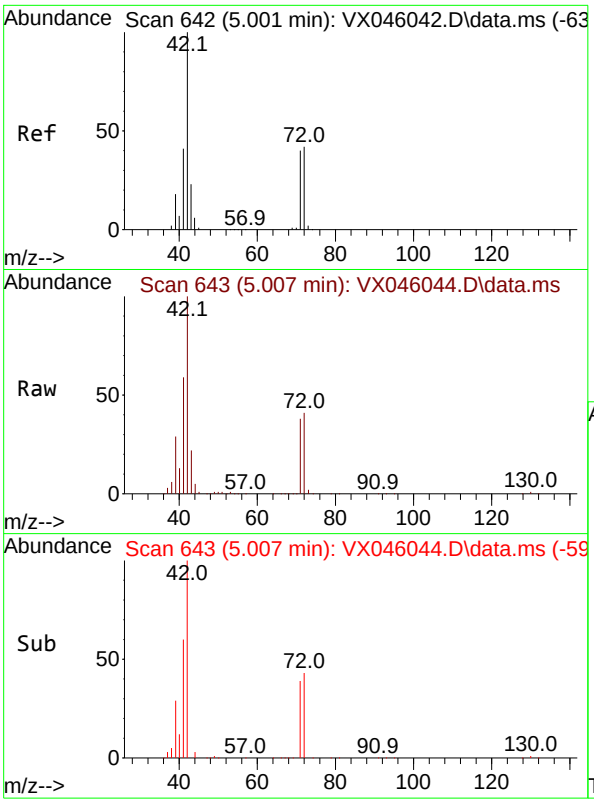


#28
Bromochloromethane
Concen: 95.108 ug/l
RT: 4.898 min Scan# 625
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 49 Resp: 146923

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	4.0
130	70.5	56.2	84.2

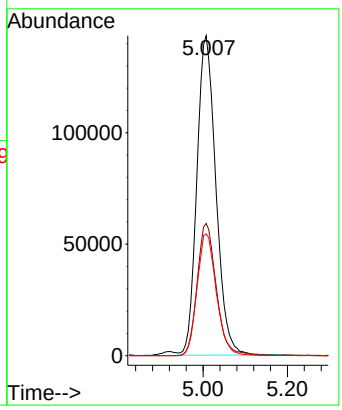




#29
Tetrahydrofuran
Concen: 569.081 ug/l
RT: 5.007 min Scan# 64
Delta R.T. 0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 42 Resp: 45045

Ion	Ratio	Lower	Upper
42	100		
72	41.6	33.7	50.5
71	38.7	31.4	47.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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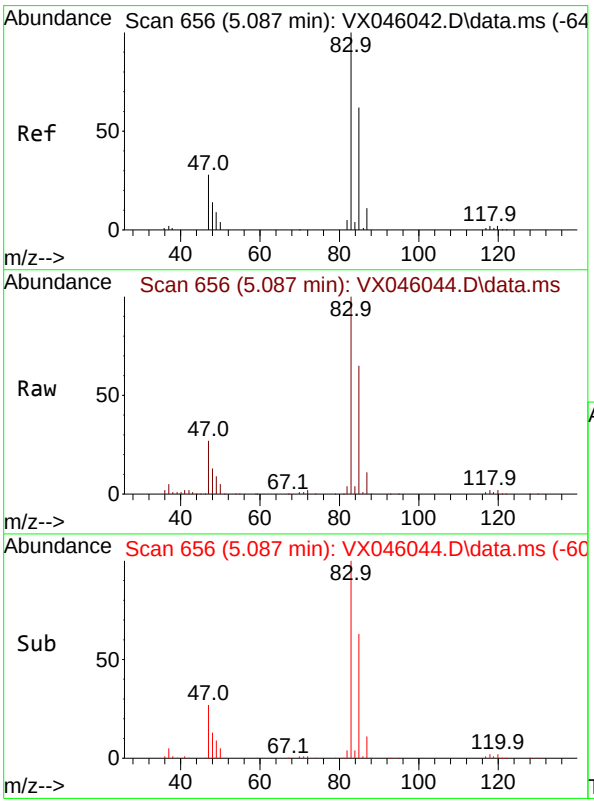
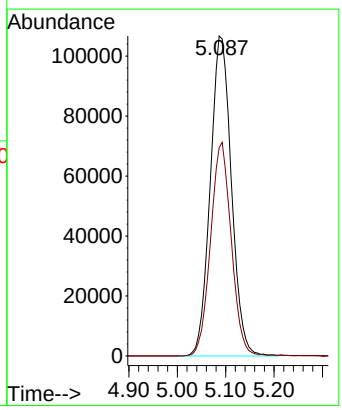
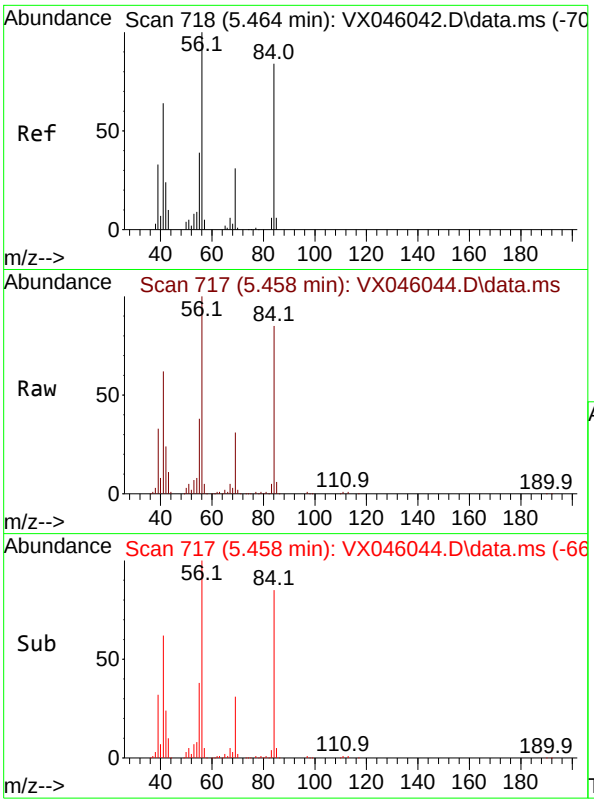


#30
Chloroform
Concen: 107.208 ug/l
RT: 5.087 min Scan# 656
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 83 Resp: 323659

Ion	Ratio	Lower	Upper
83	100		
85	65.1	49.3	73.9





#31
Cyclohexane
Concen: 116.934 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 56 Resp: 28631

Ion	Ratio	Lower	Upper
56	100		
69	31.2	24.4	36.6
84	82.8	66.9	100.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
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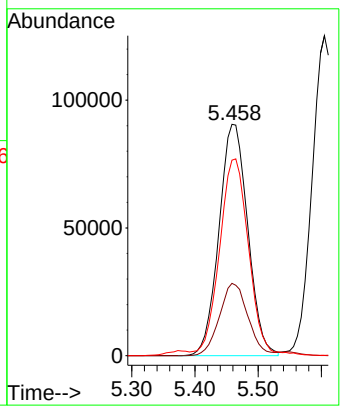
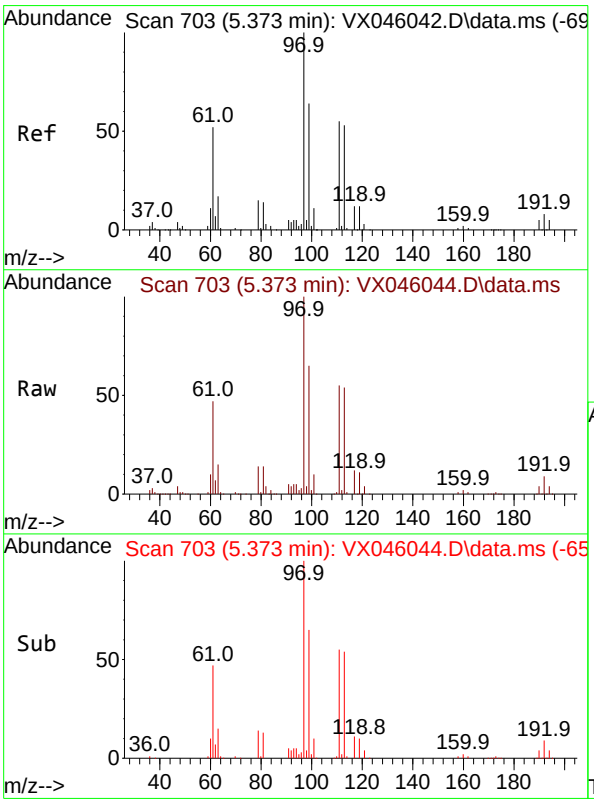
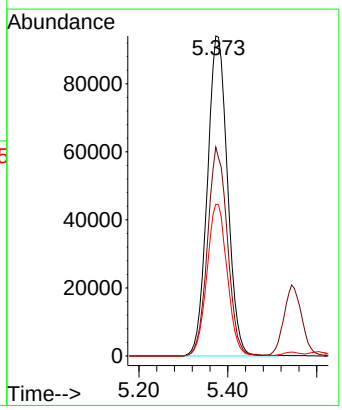


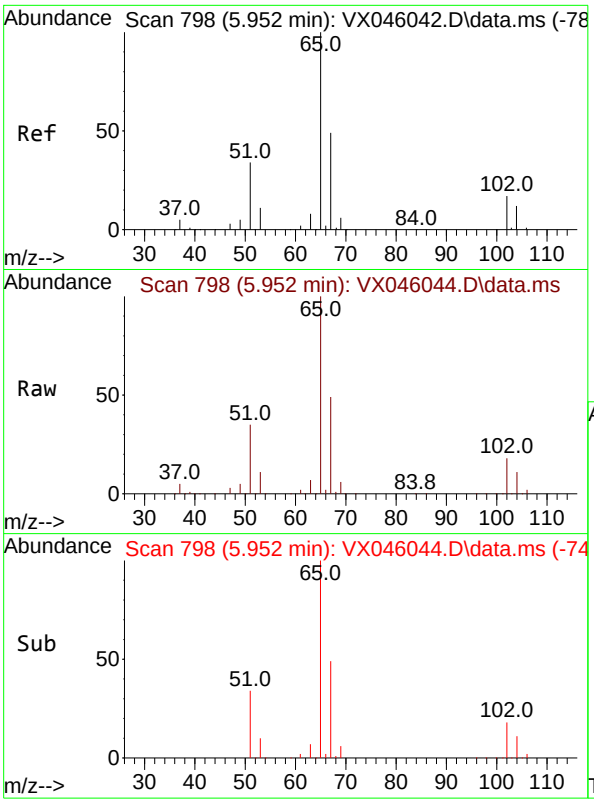


#32
1,1,1-Trichloroethane
Concen: 113.572 ug/l
RT: 5.373 min Scan# 703
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 97 Resp: 295702

Ion	Ratio	Lower	Upper
97	100		
99	64.3	51.8	77.6
61	48.0	40.1	60.1

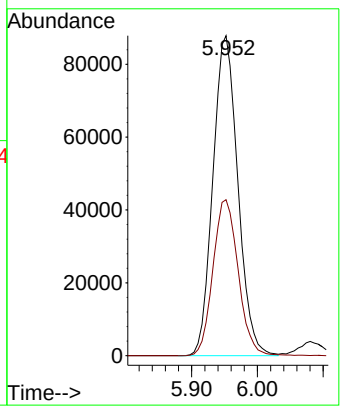




#33
1,2-Dichloroethane-d4
Concen: 93.983 ug/l
RT: 5.952 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 65 Resp: 23195

Ion	Ratio	Lower	Upper
65	100		
67	49.4	0.0	99.0



Instrument :
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ClientSampleId :
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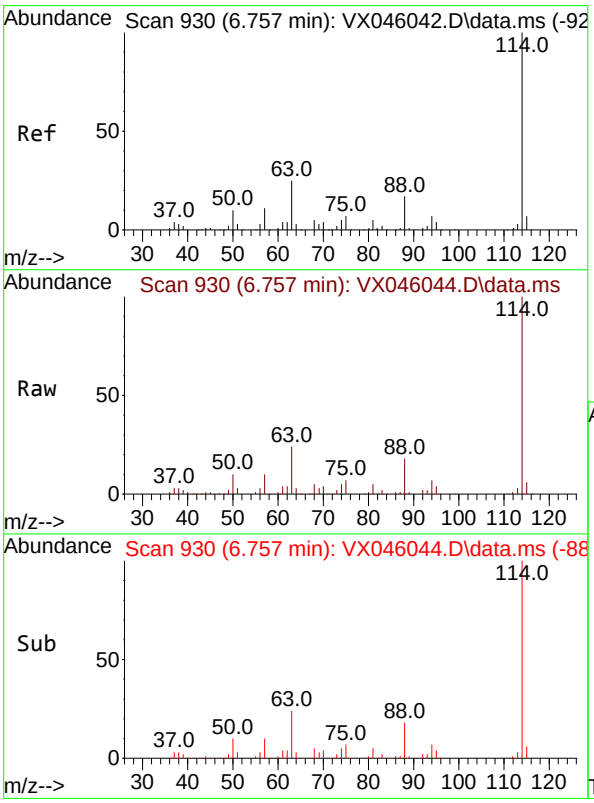
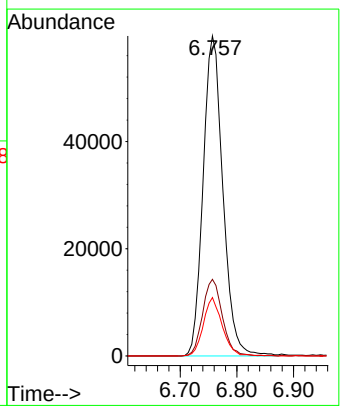
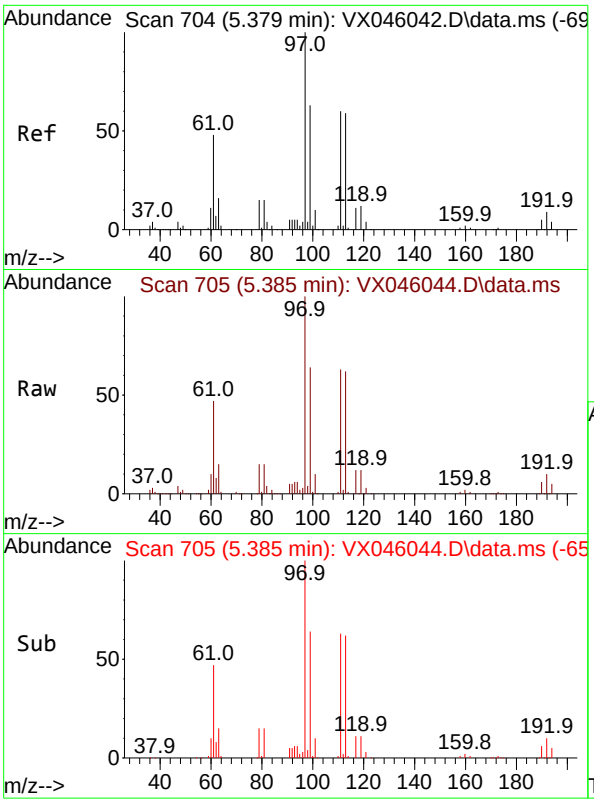


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion:114 Resp: 144975

Ion	Ratio	Lower	Upper
114	100		
63	23.9	0.0	49.2
88	18.3	0.0	33.6

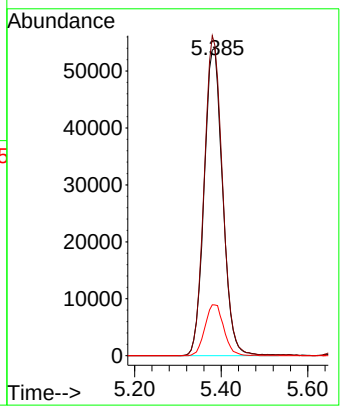




#35
Dibromofluoromethane
Concen: 98.562 ug/l
RT: 5.385 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion:113 Resp: 16016

Ion	Ratio	Lower	Upper
113	100		
111	103.0	83.1	124.7
192	16.9	13.3	19.9



Instrument :
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ClientSampleId :
VSTDICC150

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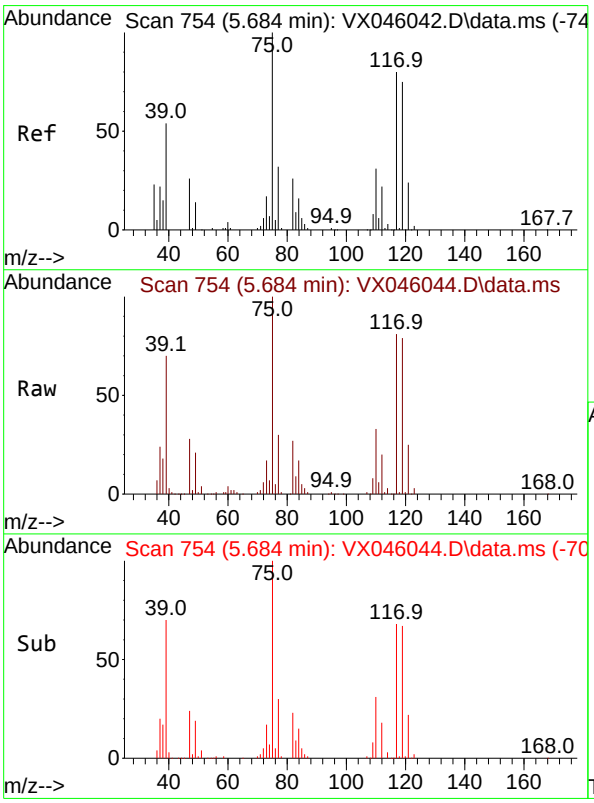
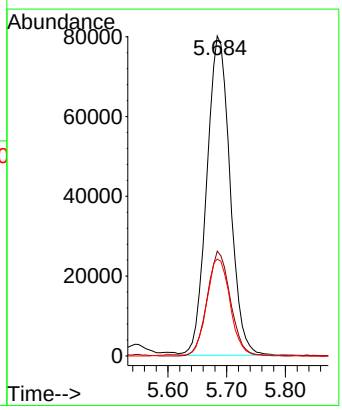
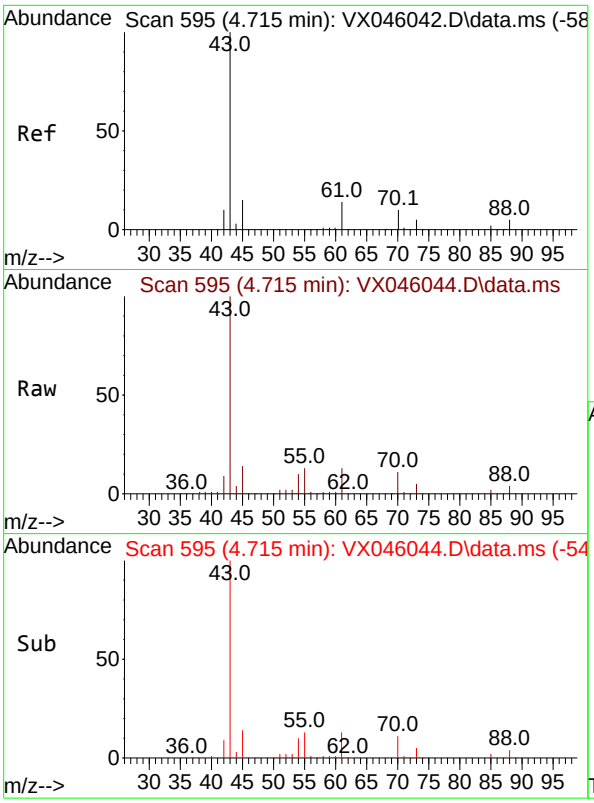


#36
1,1-Dichloropropene
Concen: 116.462 ug/l
RT: 5.684 min Scan# 754
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 75 Resp: 219731

Ion	Ratio	Lower	Upper
75	100		
110	32.9	16.3	48.9
77	30.8	24.3	36.5

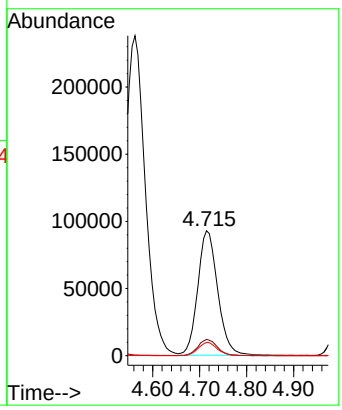




#37
Ethyl Acetate
Concen: 115.889 ug/l
RT: 4.715 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 43 Resp: 27431

Ion	Ratio	Lower	Upper
43	100		
61	12.5	10.3	15.5
70	10.2	7.9	11.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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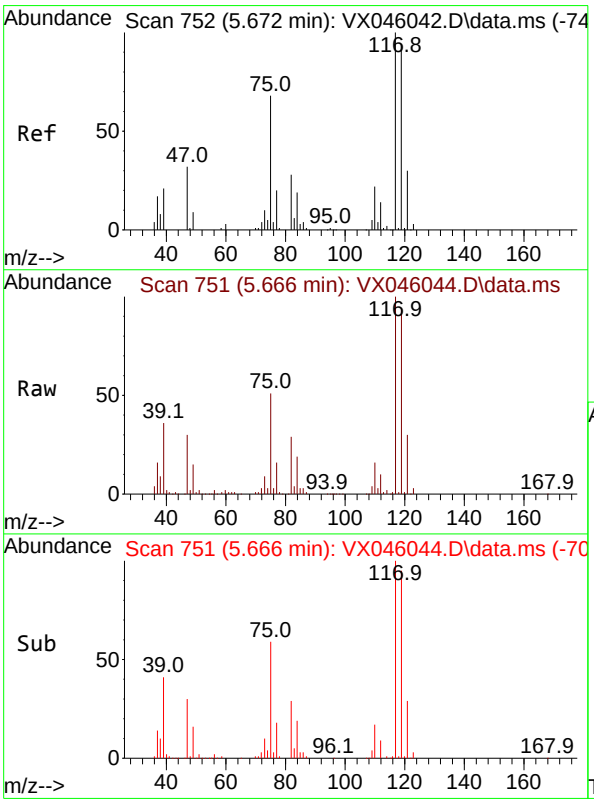
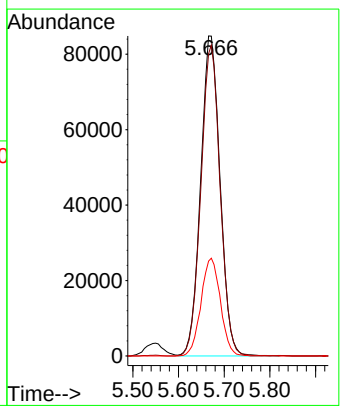
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

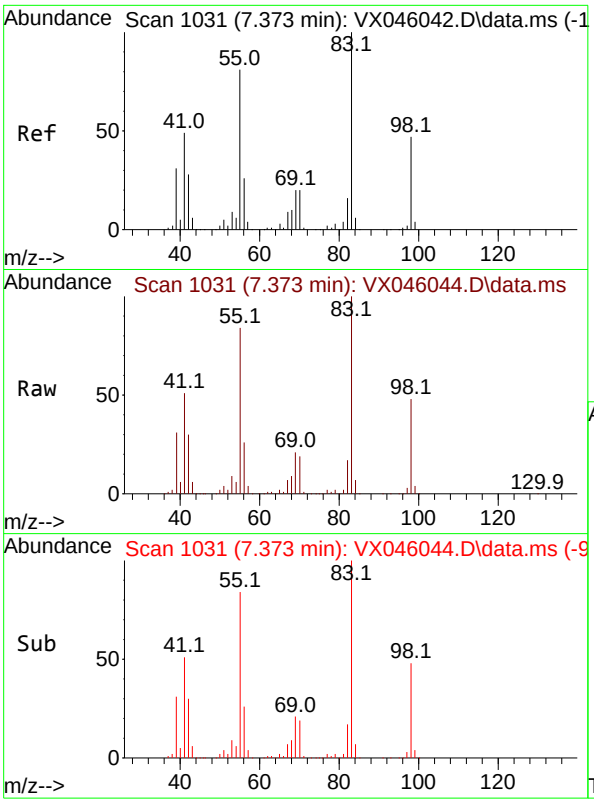


#38
Carbon Tetrachloride
Concen: 115.760 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion:117 Resp: 250916

Ion	Ratio	Lower	Upper
117	100		
119	94.3	75.2	112.8
121	29.7	24.2	36.4

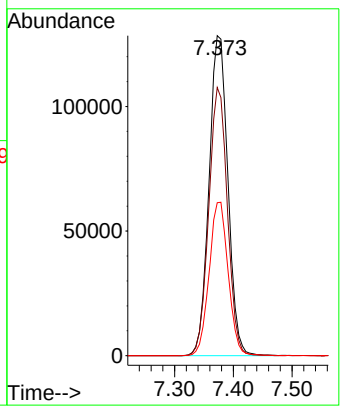




#39
Methylcyclohexane
Concen: 121.107 ug/l
RT: 7.373 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 83 Resp: 28631

Ion	Ratio	Lower	Upper
83	100		
55	83.8	64.7	97.1
98	47.8	37.4	56.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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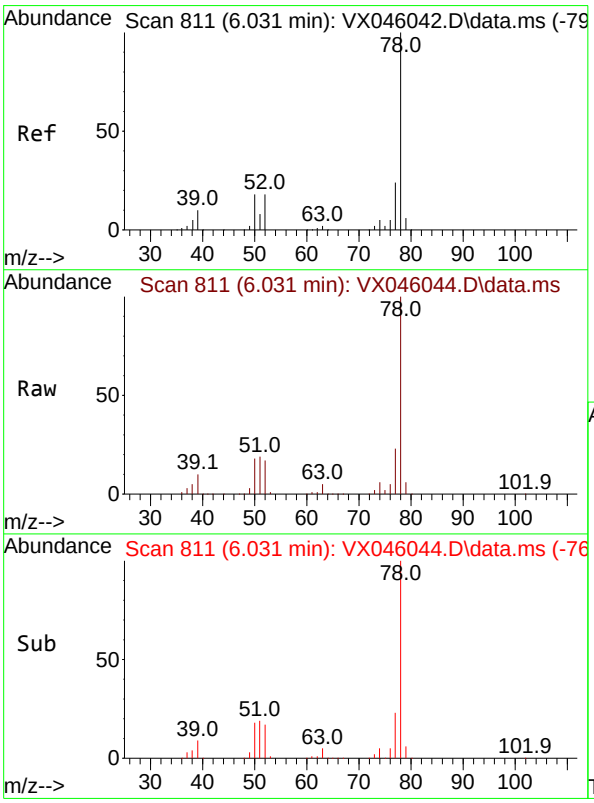
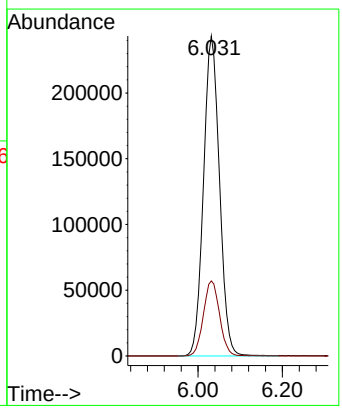
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

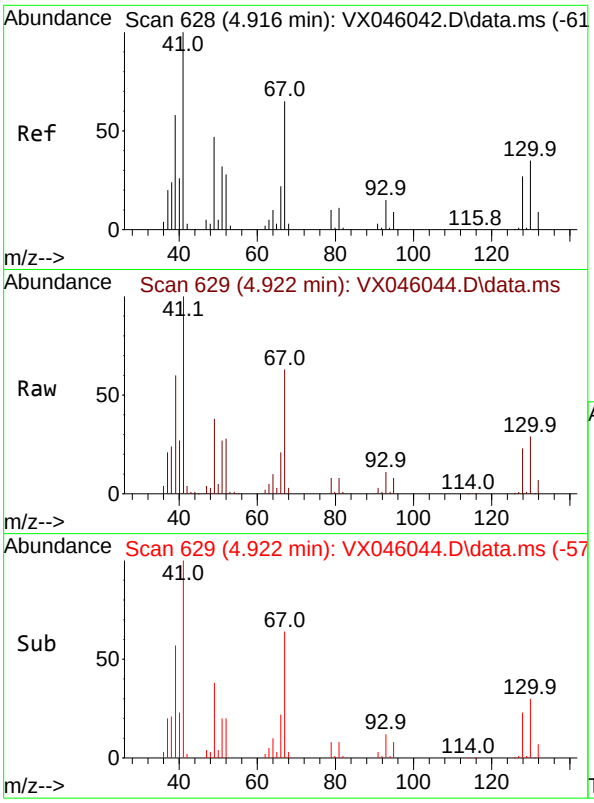


#40
Benzene
Concen: 109.813 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 78 Resp: 642178

Ion	Ratio	Lower	Upper
78	100		
77	23.4	19.0	28.4

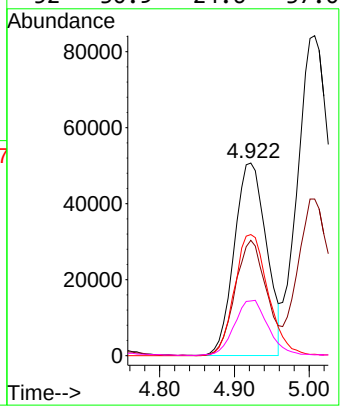




#41
Methacrylonitrile
Concen: 115.139 ug/l
RT: 4.922 min Scan# 6
Delta R.T. 0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 41 Resp: 15142

Ion	Ratio	Lower	Upper
41	100		
39	60.0	47.2	70.8
67	65.9	50.7	76.1
52	30.9	24.6	37.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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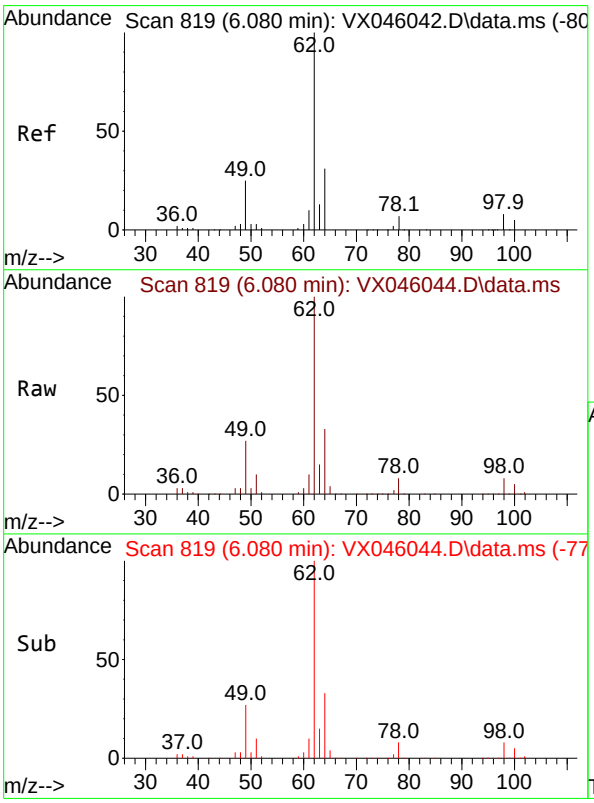
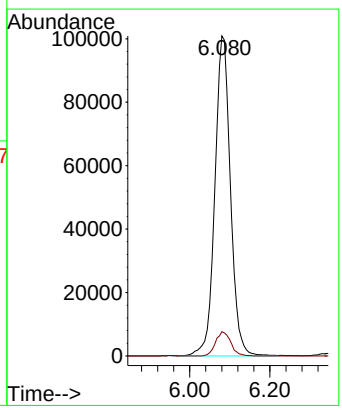
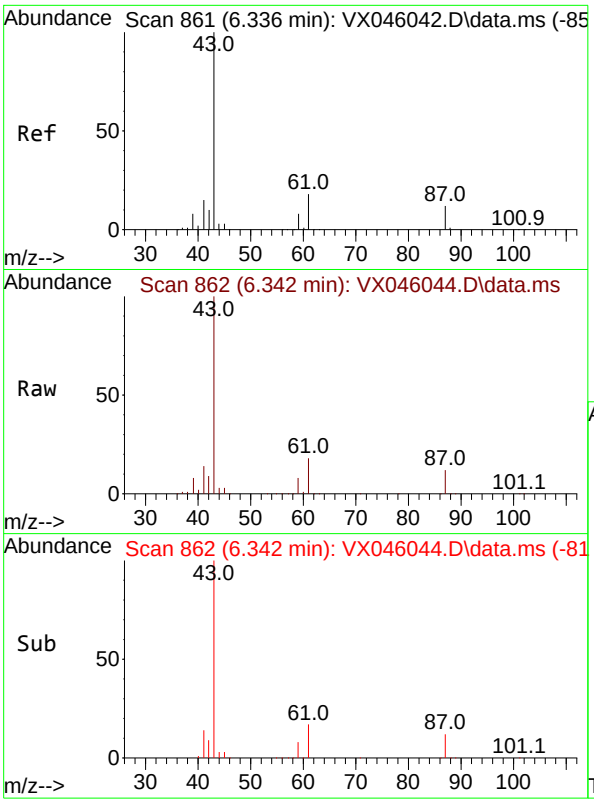


#42
1,2-Dichloroethane
Concen: 112.492 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 62 Resp: 271992

Ion	Ratio	Lower	Upper
62	100		
98	7.4	0.0	15.2

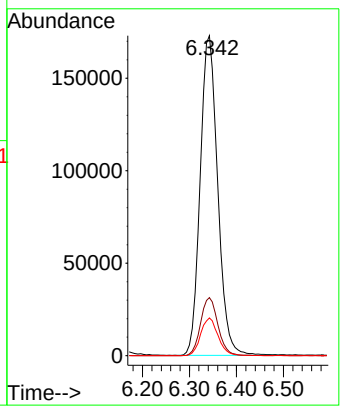




#43
Isopropyl Acetate
Concen: 123.780 ug/l
RT: 6.342 min Scan# 8
Delta R.T. 0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 43 Resp: 44787

Ion	Ratio	Lower	Upper
43	100		
61	18.1	14.3	21.5
87	11.7	9.5	14.3



Instrument :
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ClientSampleId :
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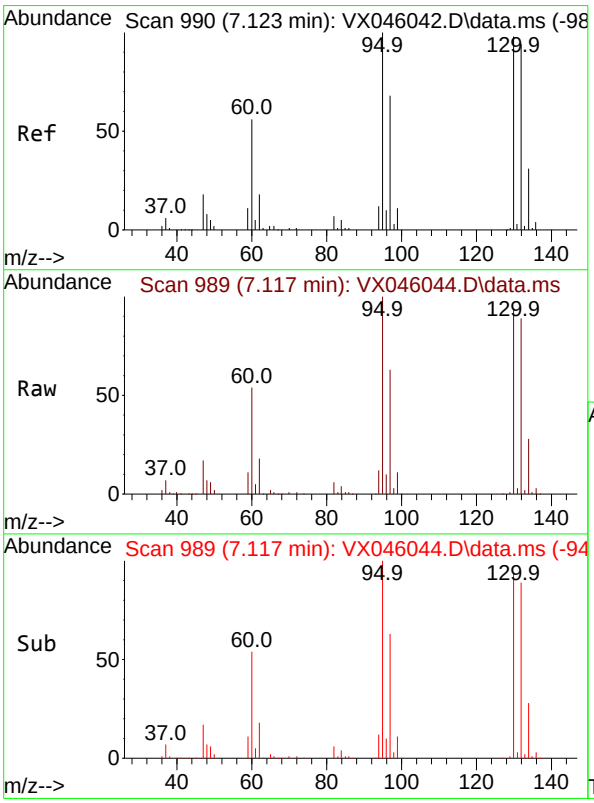
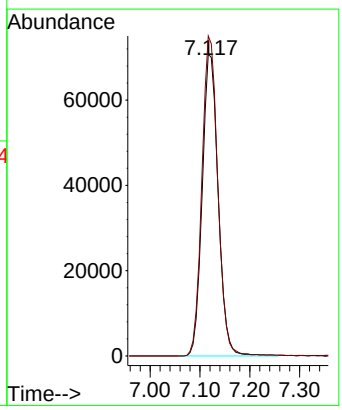
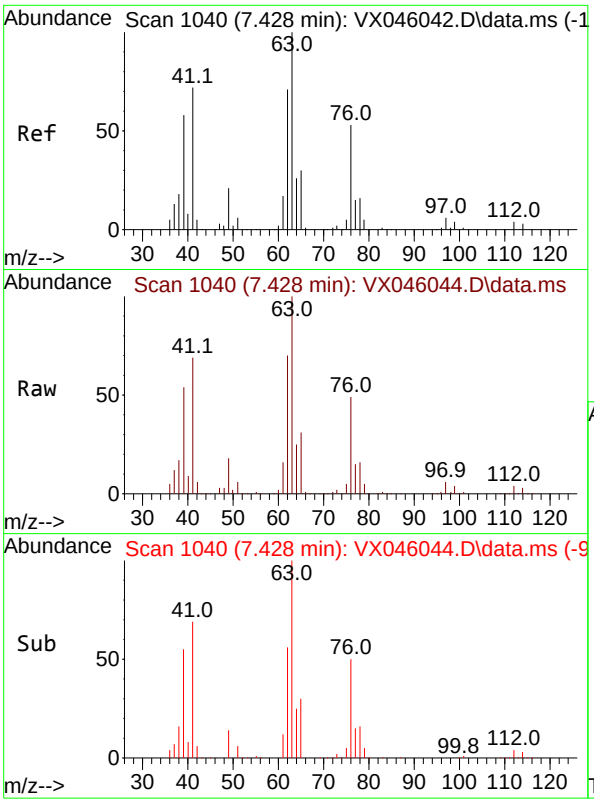


#44
Trichloroethene
Concen: 114.032 ug/l
RT: 7.117 min Scan# 989
Delta R.T. -0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion:130 Resp: 157641

Ion	Ratio	Lower	Upper
130	100		
95	105.9	0.0	204.2

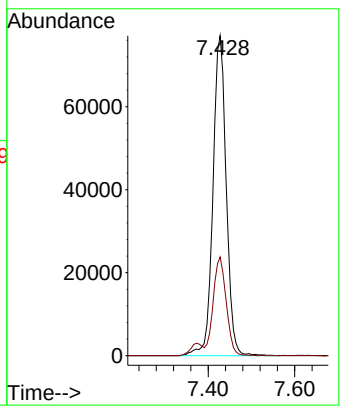




#45
1,2-Dichloropropane
Concen: 113.217 ug/l
RT: 7.428 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 63 Resp: 16450

Ion	Ratio	Lower	Upper
63	100		
65	30.8	24.1	36.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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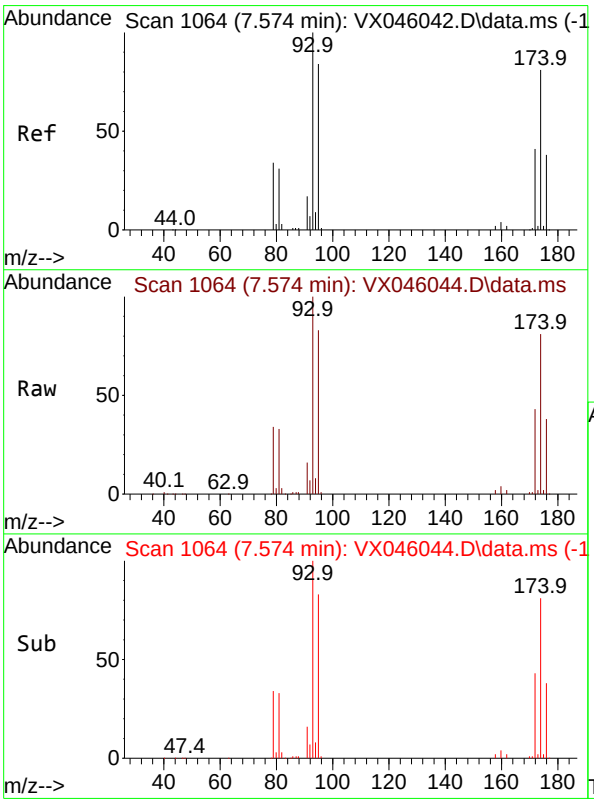
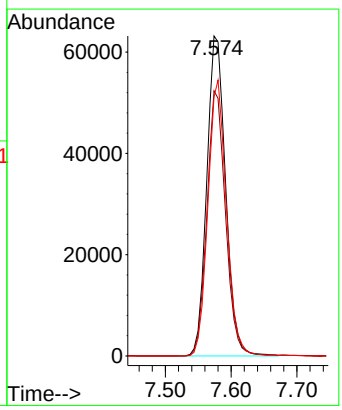
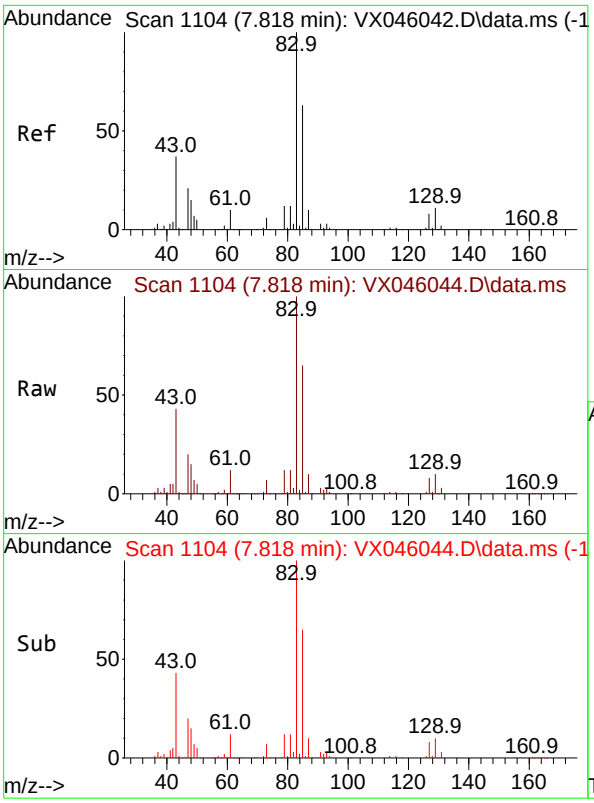


#46
Dibromomethane
Concen: 109.869 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 93 Resp: 125846

Ion	Ratio	Lower	Upper
93	100		
95	82.4	65.6	98.4
174	85.0	68.2	102.2

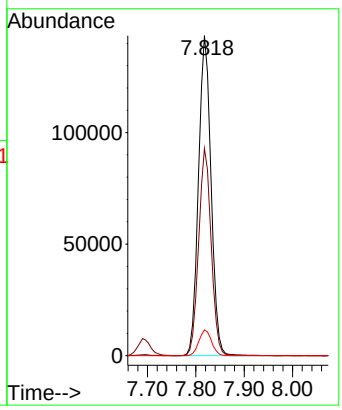




#47
Bromodichloromethane
Concen: 116.365 ug/l
RT: 7.818 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 83 Resp: 25832

Ion	Ratio	Lower	Upper
83	100		
85	64.8	50.5	75.7
127	8.0	6.5	9.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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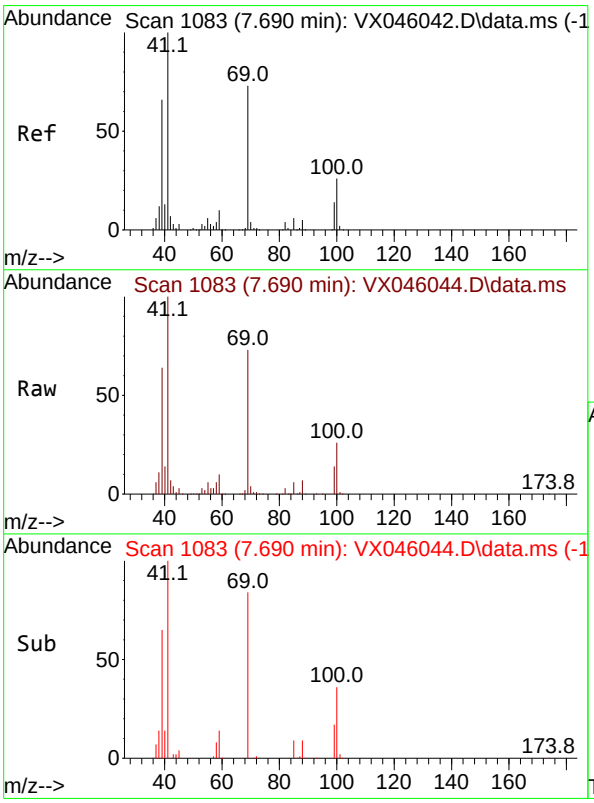
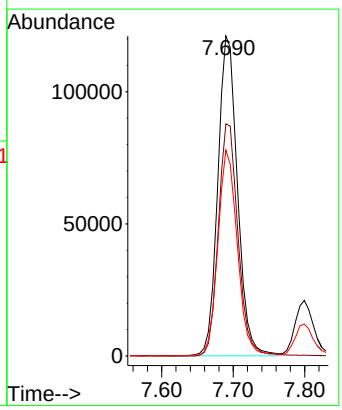
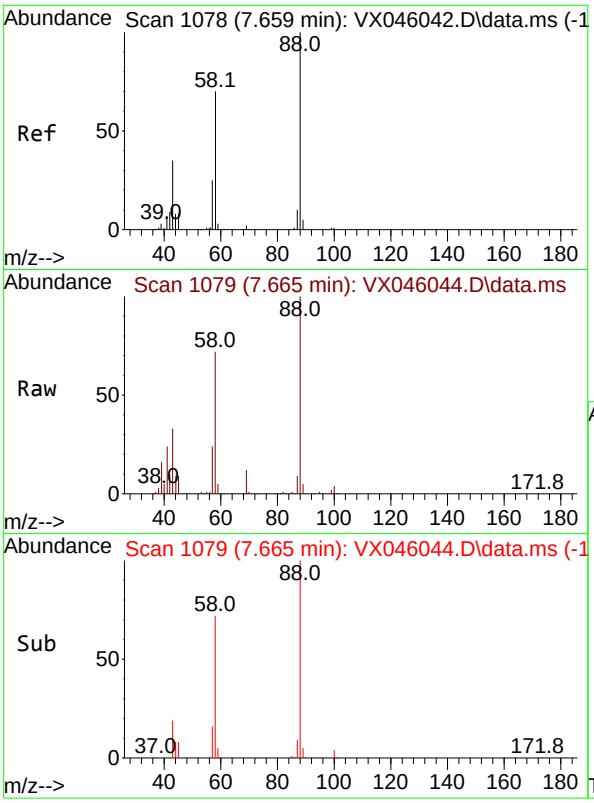


#48
Methyl methacrylate
Concen: 124.356 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 41 Resp: 231040

Ion	Ratio	Lower	Upper
41	100		
69	73.0	58.5	87.7
39	63.8	51.7	77.5

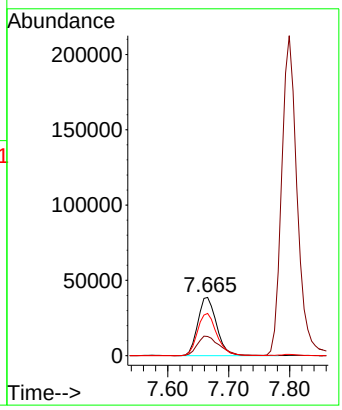




#49
1,4-Dioxane
Concen: 2241.695 ug/l
RT: 7.665 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 88 Resp: 8280

Ion	Ratio	Lower	Upper
88	100		
43	40.0	33.4	50.2
58	74.8	58.6	88.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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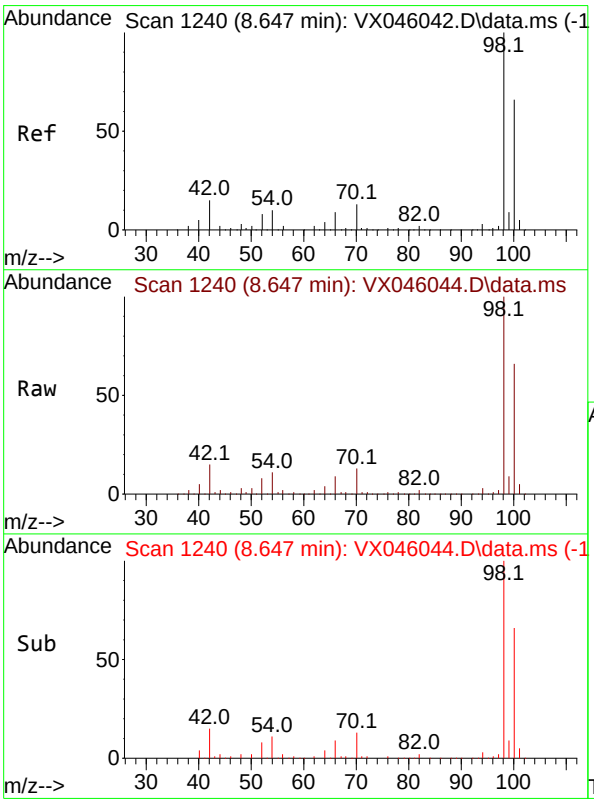
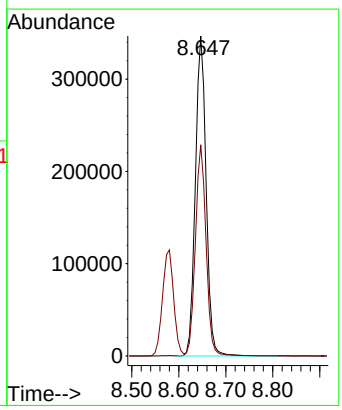
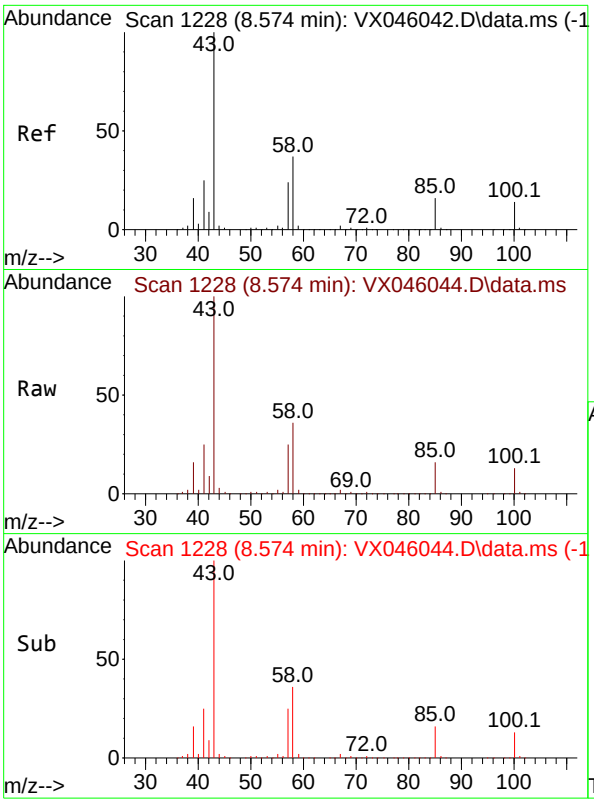


#50
Toluene-d8
Concen: 101.252 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 98 Resp: 554390

Ion	Ratio	Lower	Upper
98	100		
100	65.4	53.5	80.3

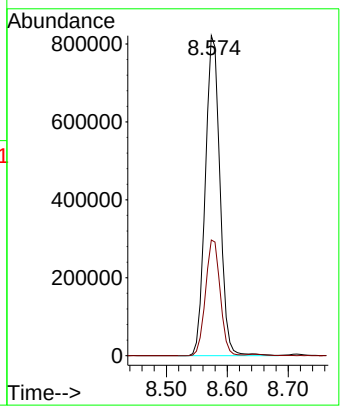




#51
4-Methyl-2-Pentanone
Concen: 577.831 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 43 Resp: 137127

Ion	Ratio	Lower	Upper
43	100		
58	36.2	28.9	43.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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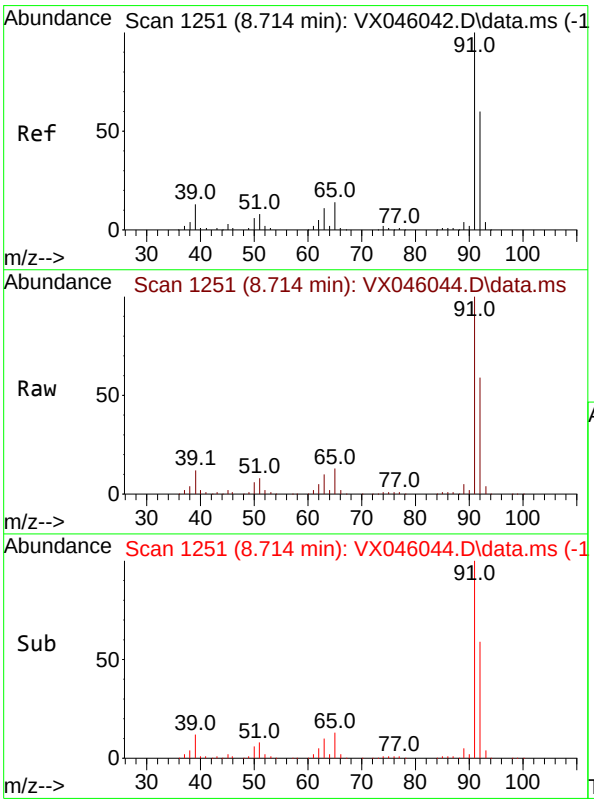
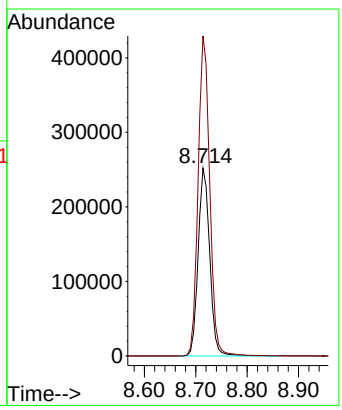
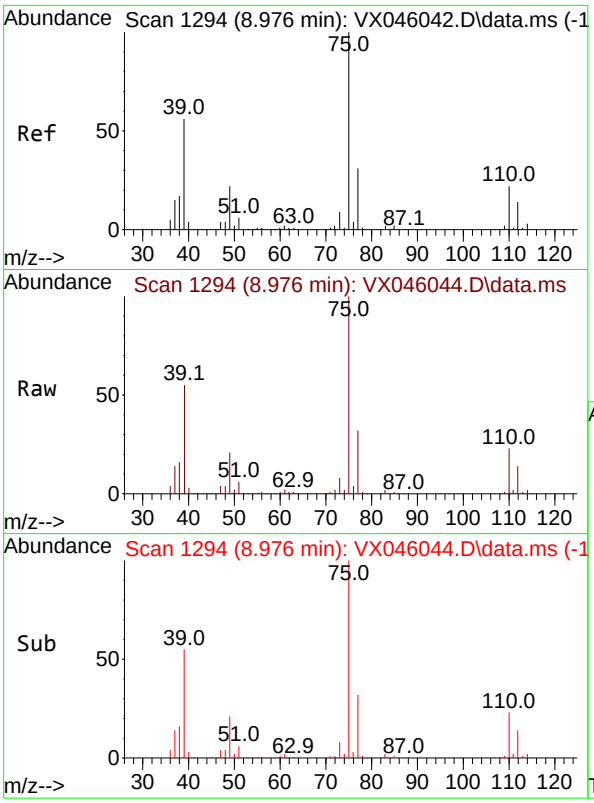


#52
Toluene
Concen: 113.430 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 92 Resp: 393323

Ion	Ratio	Lower	Upper
92	100		
91	171.0	136.6	205.0

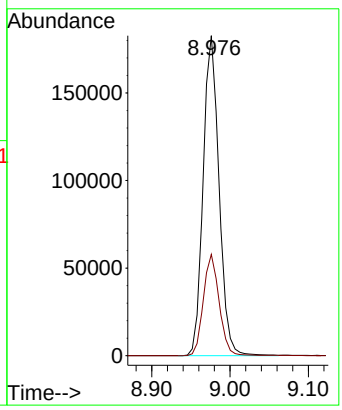




#53
t-1,3-Dichloropropene
Concen: 138.001 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 75 Resp: 25723

Ion	Ratio	Lower	Upper
75	100		
77	31.7	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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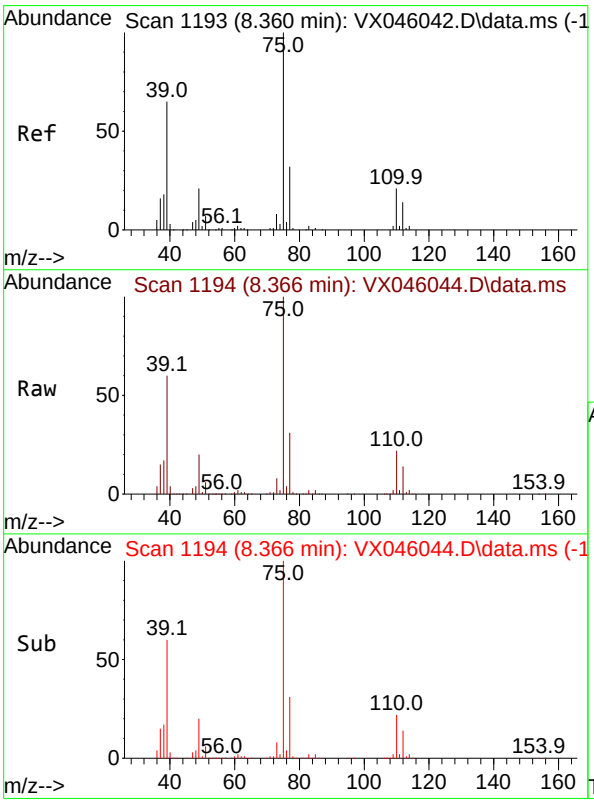
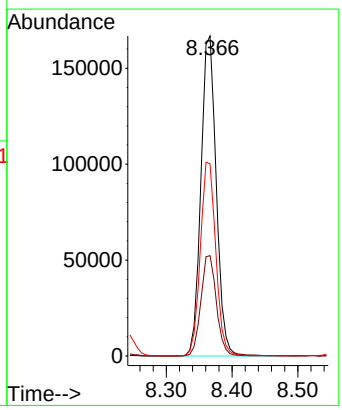
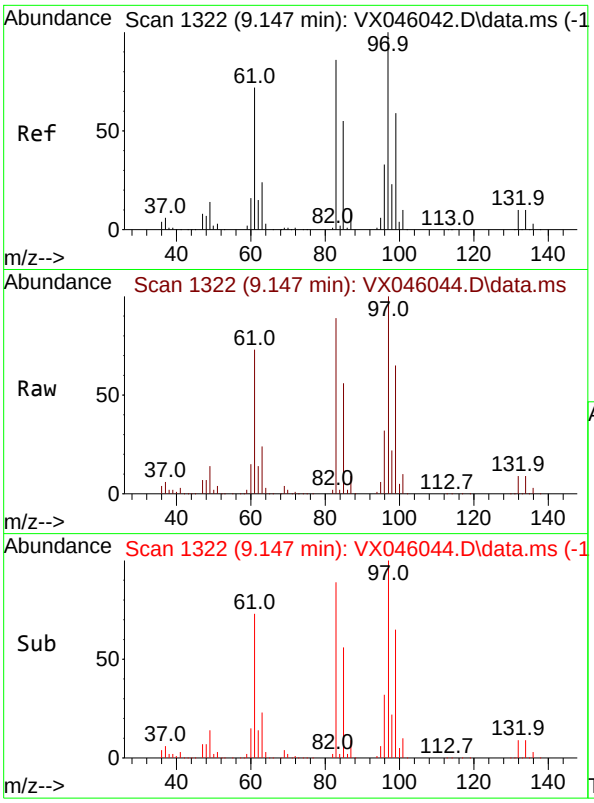


#54
cis-1,3-Dichloropropene
Concen: 124.658 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 75 Resp: 271054

Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.4	38.0
39	60.0	52.2	78.4

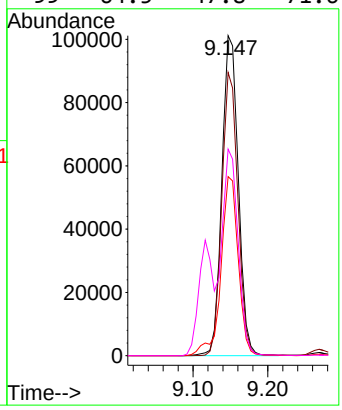




#55
1,1,2-Trichloroethane
Concen: 110.551 ug/l
RT: 9.147 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 97 Resp: 15493

Ion	Ratio	Lower	Upper
97	100		
83	88.5	69.0	103.6
85	56.0	44.3	66.5
99	64.5	47.8	71.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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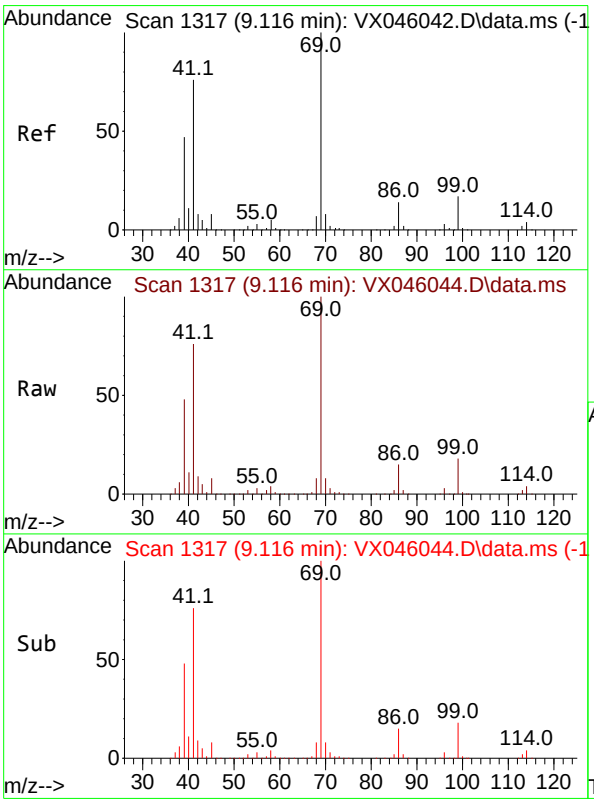
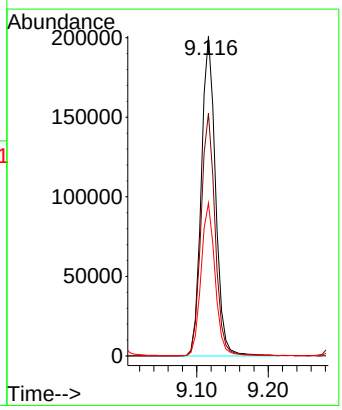
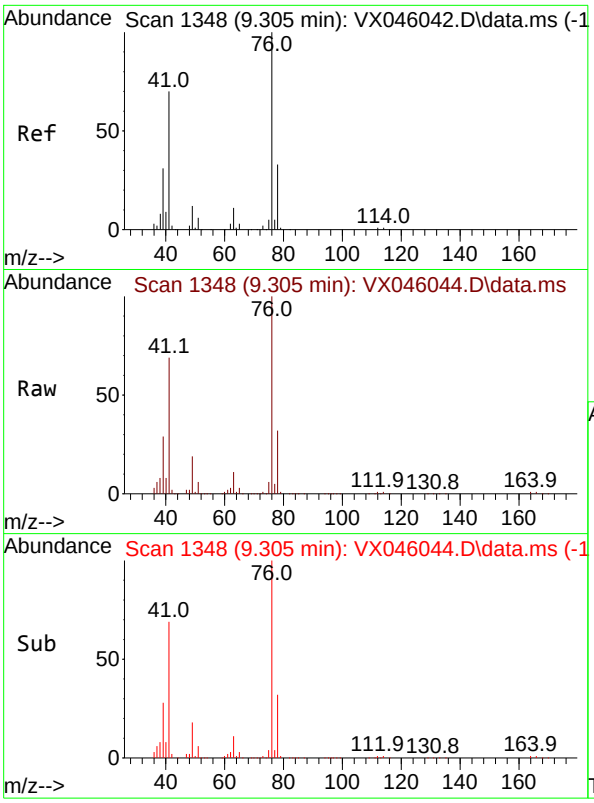


#56
Ethyl methacrylate
Concen: 127.968 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 69 Resp: 277921

Ion	Ratio	Lower	Upper
69	100		
41	75.4	60.8	91.2
39	47.2	39.0	58.6

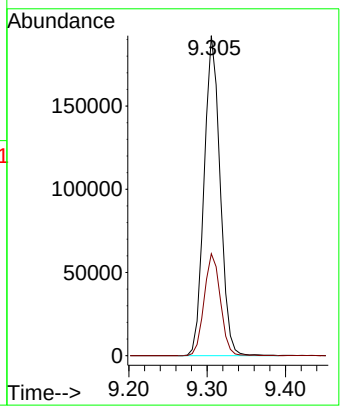




#57
1,3-Dichloropropane
Concen: 109.813 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 76 Resp: 27281

Ion	Ratio	Lower	Upper
76	100		
78	32.3	26.3	39.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
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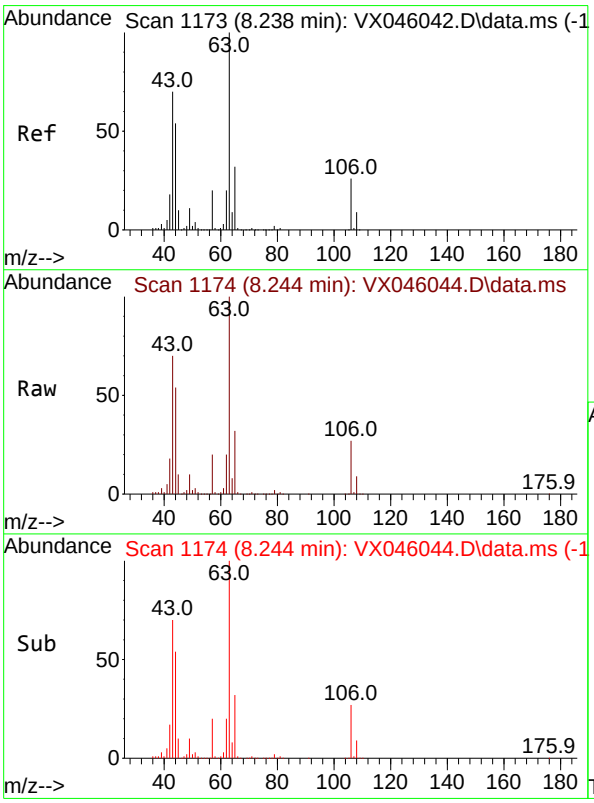
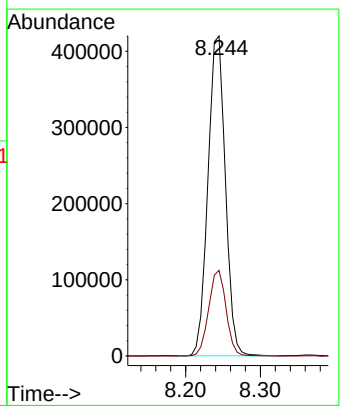
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

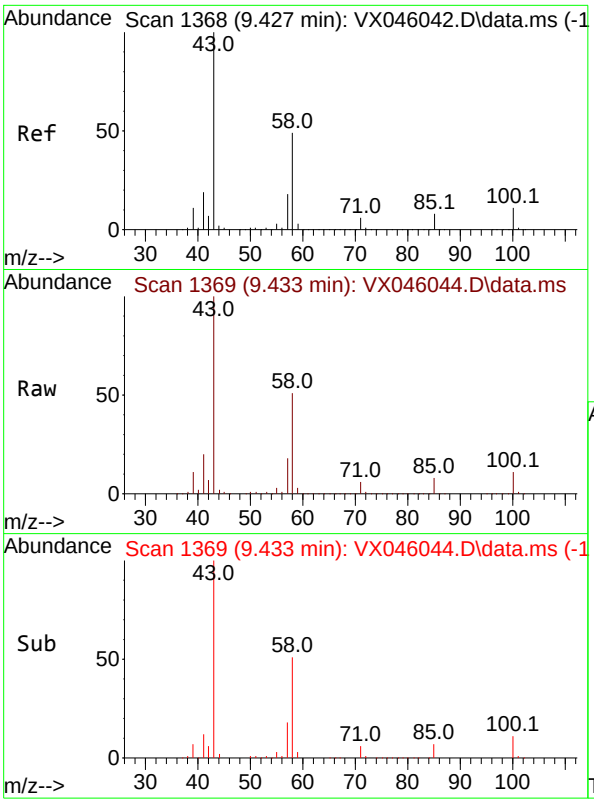


#58
2-Chloroethyl Vinyl ether
Concen: 697.344 ug/l
RT: 8.244 min Scan# 1174
Delta R.T. 0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 63 Resp: 680608

Ion	Ratio	Lower	Upper
63	100		
106	26.7	21.5	32.3





#59
2-Hexanone
Concen: 571.094 ug/l
RT: 9.433 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 43 Resp: 102859

Ion	Ratio	Lower	Upper
43	100		
58	50.2	24.9	74.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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Reviewed By :John Carlone 05/06/2025
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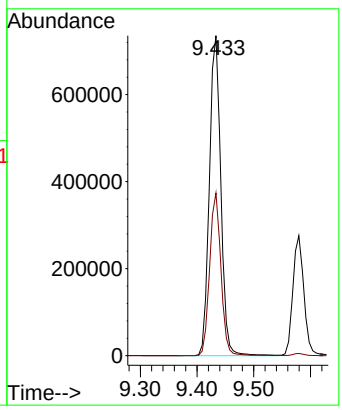
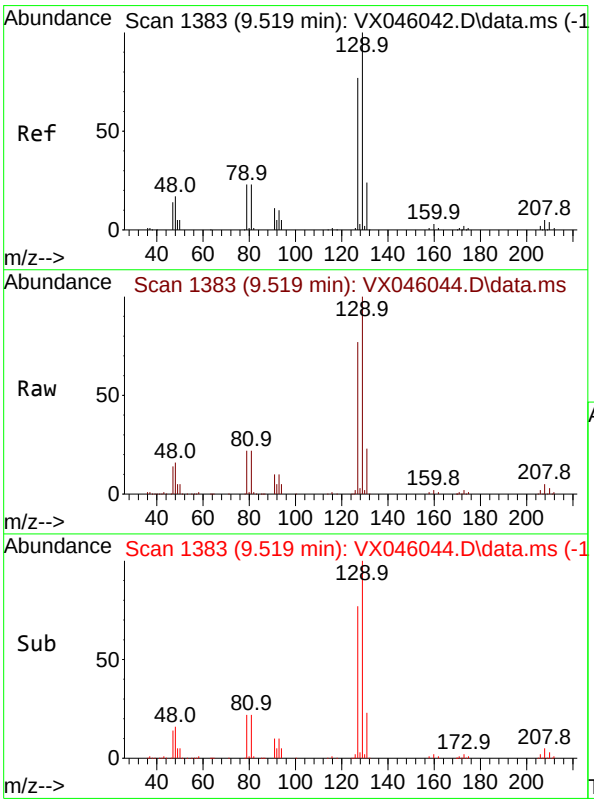
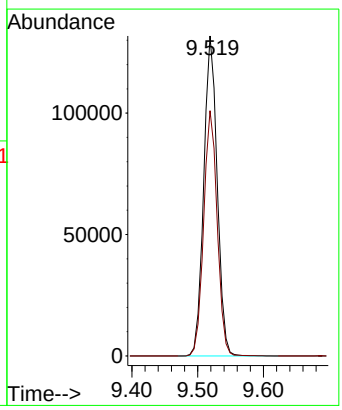


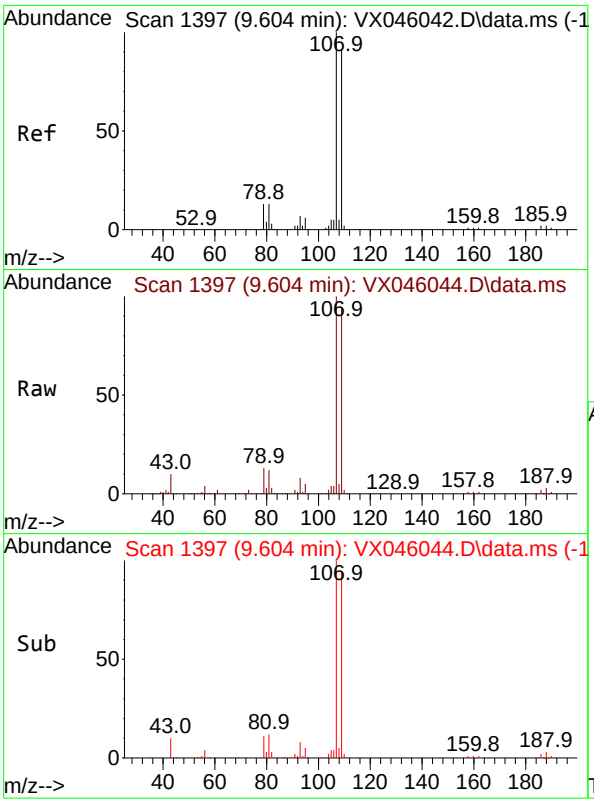


#60
Dibromochloromethane
Concen: 122.915 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion:129 Resp: 187497

Ion	Ratio	Lower	Upper
129	100		
127	77.1	39.3	117.8

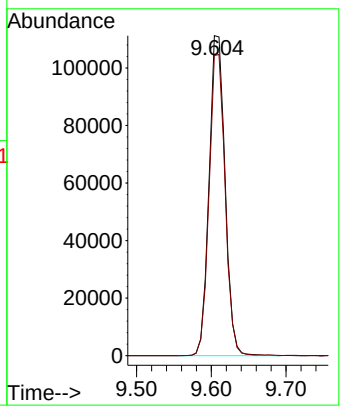




#61
1,2-Dibromoethane
Concen: 115.087 ug/l
RT: 9.604 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion:107 Resp: 16563

Ion	Ratio	Lower	Upper
107	100		
109	94.6	73.3	109.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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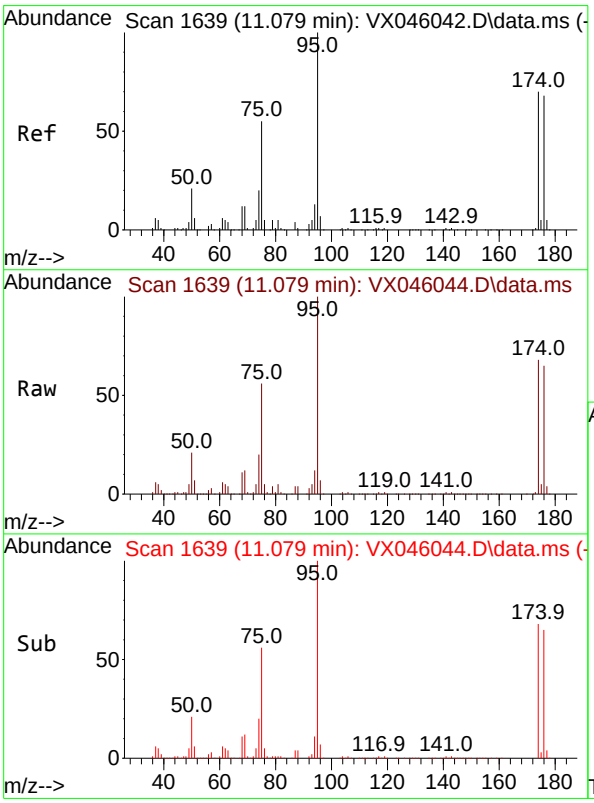
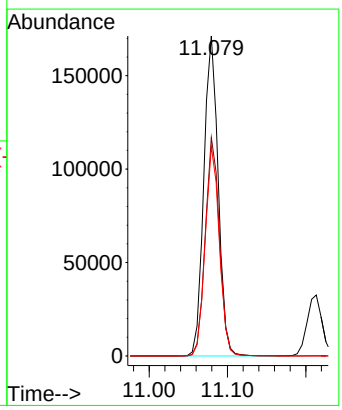
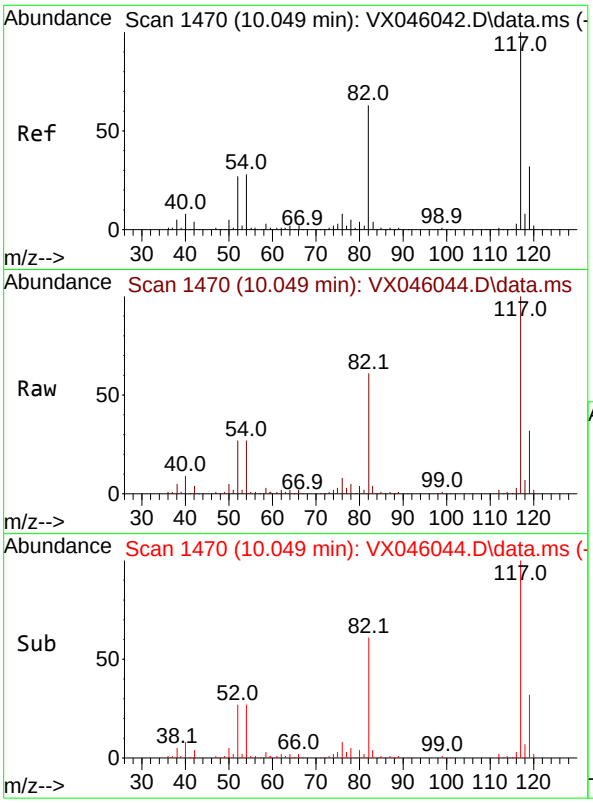


#62
4-Bromofluorobenzene
Concen: 109.174 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 95 Resp: 217536

Ion	Ratio	Lower	Upper
95	100		
174	67.5	0.0	135.8
176	64.4	0.0	131.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion:117 Resp: 12855

Ion	Ratio	Lower	Upper
117	100		
82	61.4	50.6	76.0
119	31.9	25.8	38.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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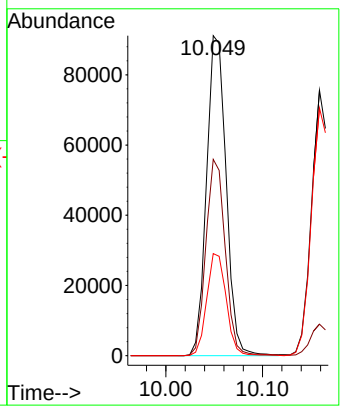
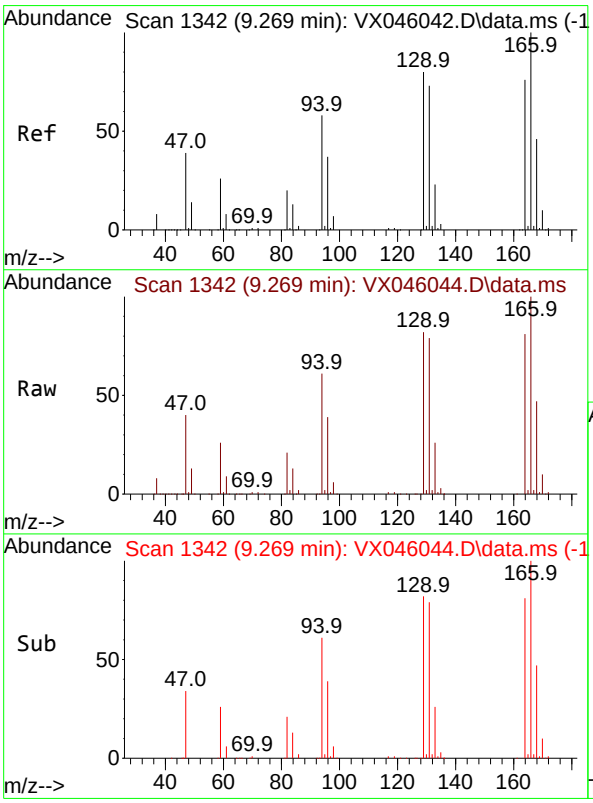
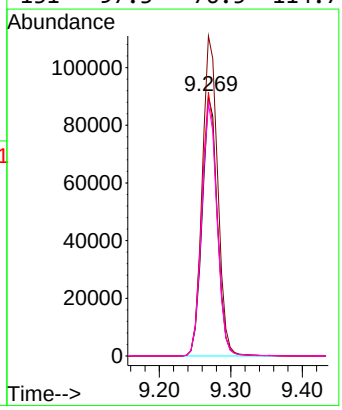


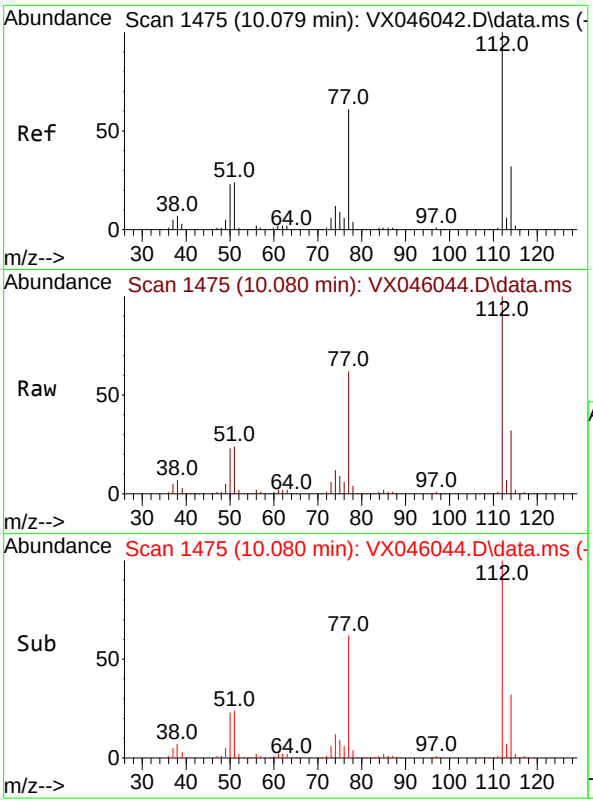


#64
Tetrachloroethene
Concen: 100.918 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion:164 Resp: 132488

Ion	Ratio	Lower	Upper
164	100		
166	123.3	105.0	157.6
129	101.6	83.5	125.3
131	97.3	76.5	114.7





#65
Chlorobenzene
Concen: 108.615 ug/l
RT: 10.080 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion:112 Resp: 42965

Ion	Ratio	Lower	Upper
112	100		
114	31.5	25.4	38.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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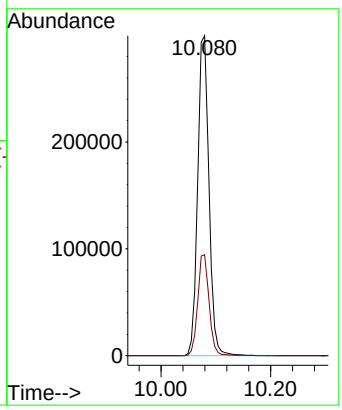
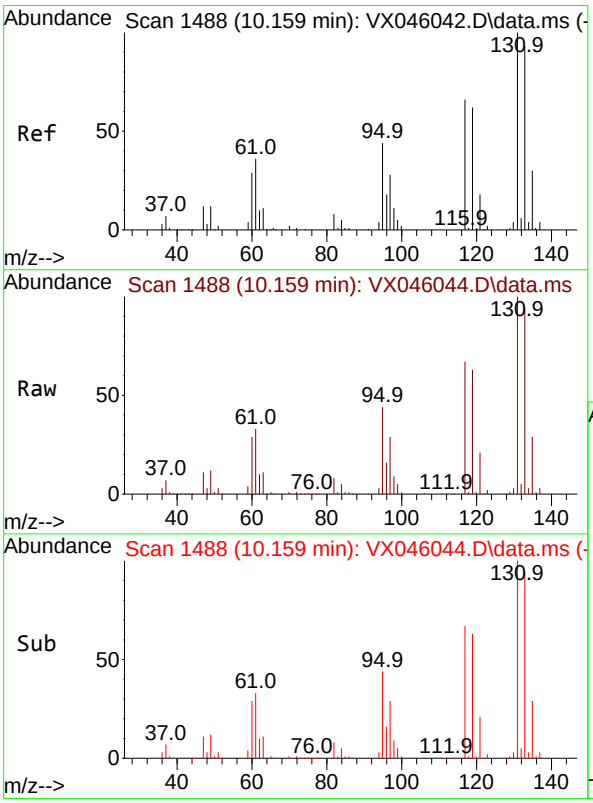
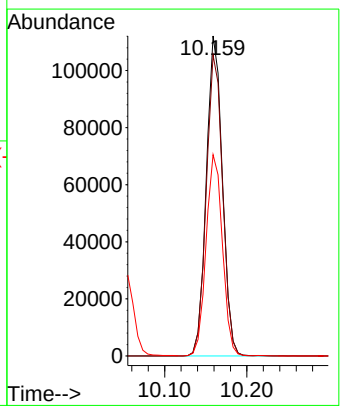


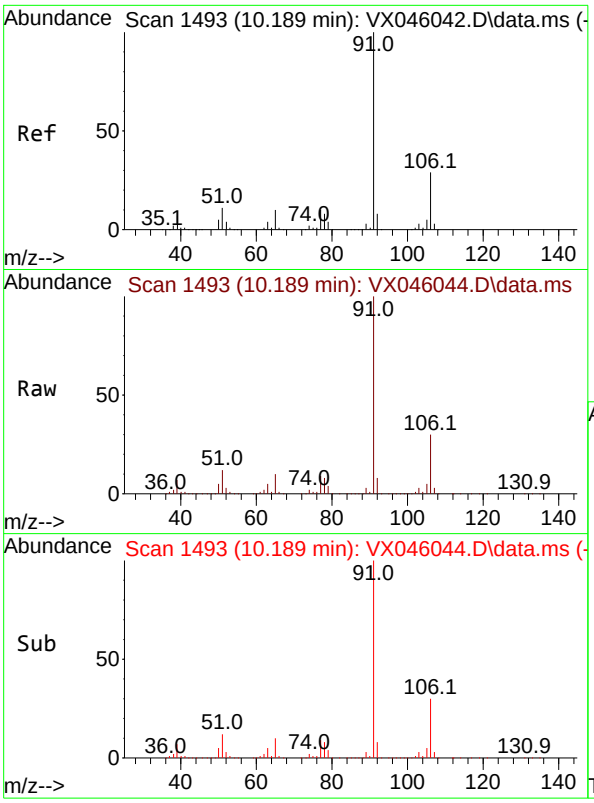


#66
1,1,1,2-Tetrachloroethane
Concen: 115.333 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion:131 Resp: 152173

Ion	Ratio	Lower	Upper
131	100		
133	95.7	47.3	141.9
119	64.0	31.6	95.0

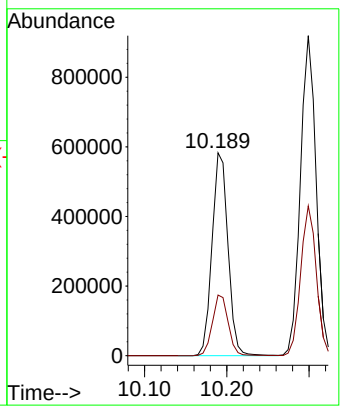




#67
Ethyl Benzene
Concen: 116.421 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 91 Resp: 78512

Ion	Ratio	Lower	Upper
91	100		
106	29.9	23.4	35.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 05/06/2025
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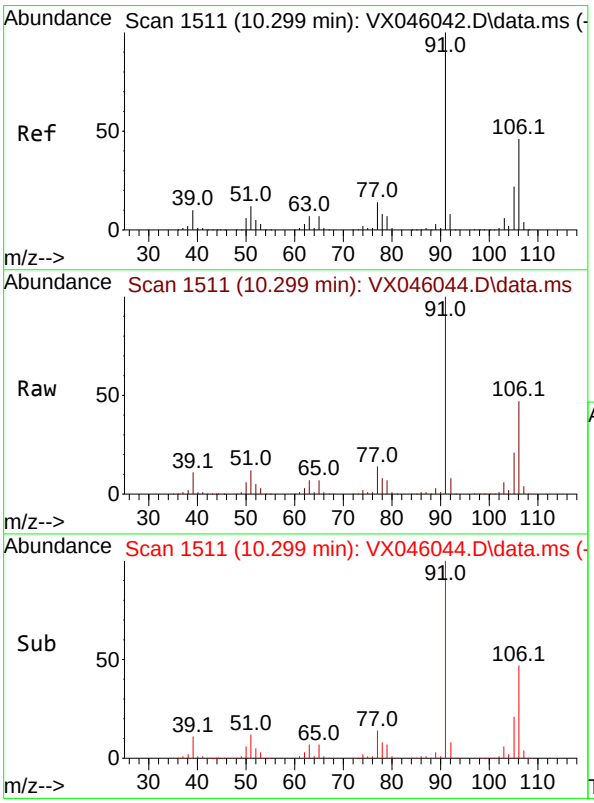
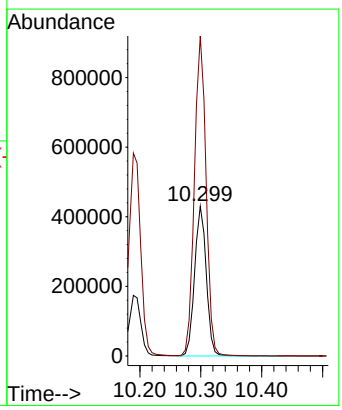
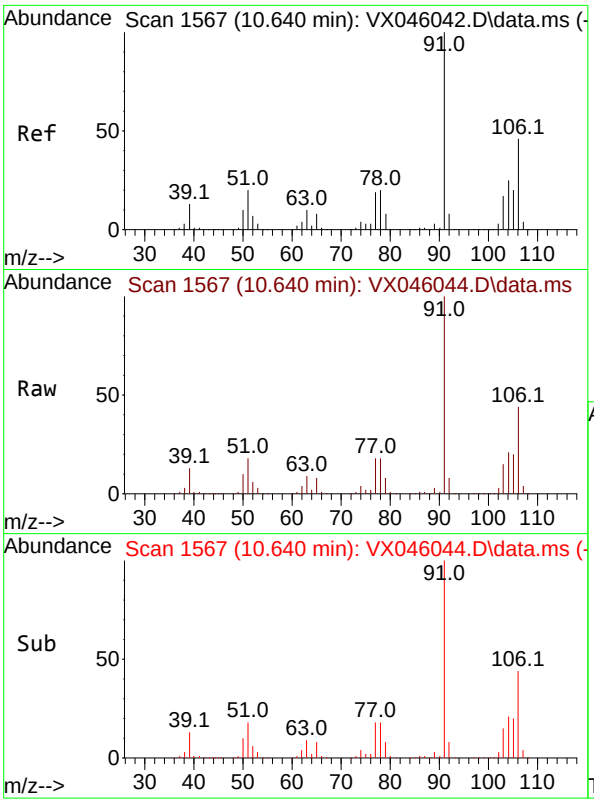


#68
m/p-Xylenes
Concen: 234.349 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion:106 Resp: 570913

Ion	Ratio	Lower	Upper
106	100		
91	214.2	171.2	256.8

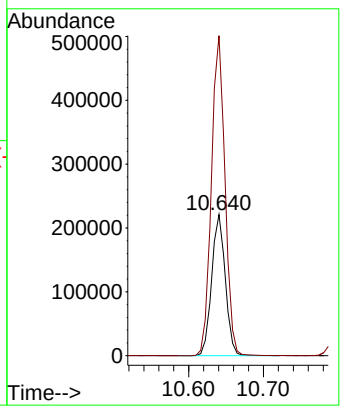




#69
o-Xylene
Concen: 113.990 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion:106 Resp: 27990

Ion	Ratio	Lower	Upper
106	100		
91	226.9	112.7	338.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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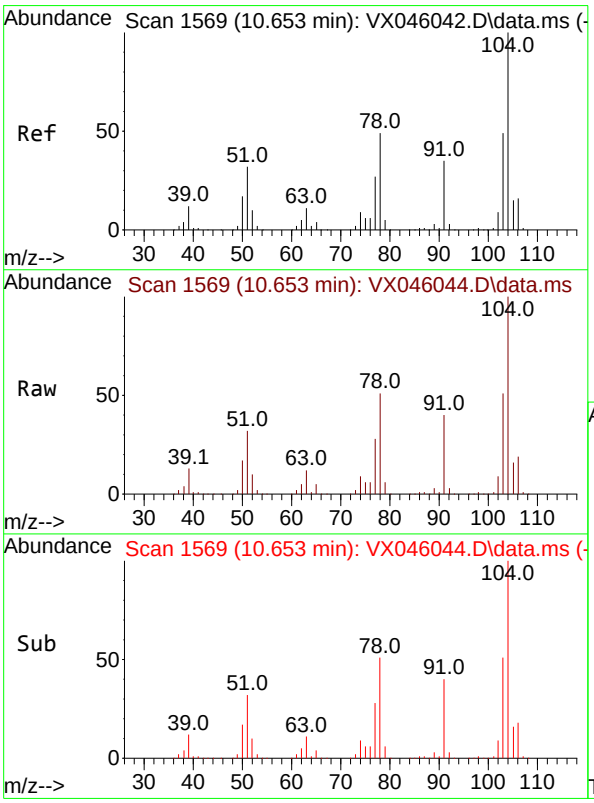
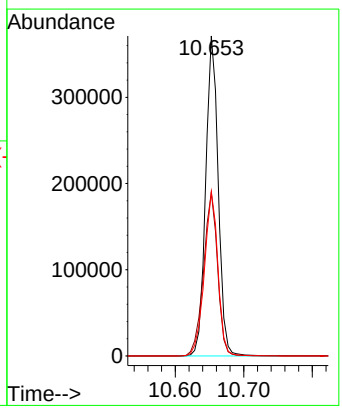
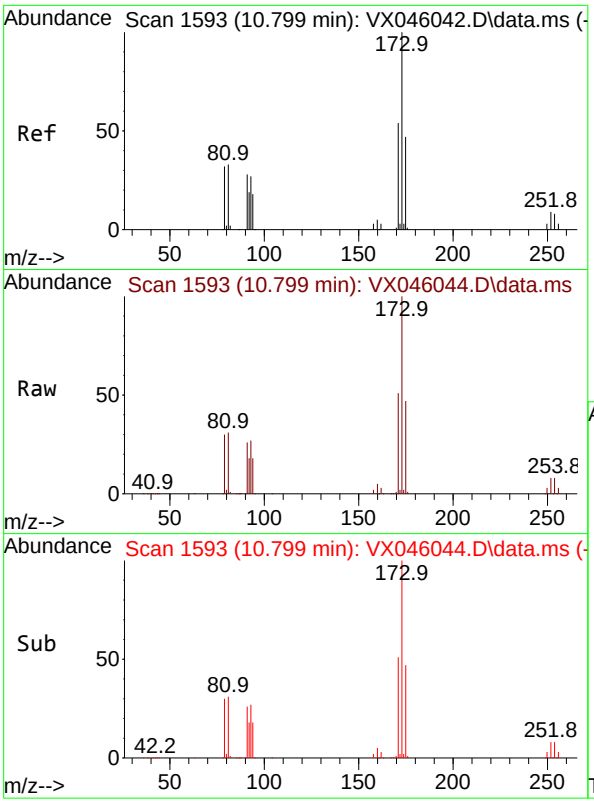


#70
Styrene
Concen: 120.694 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion:104 Resp: 474254

Ion	Ratio	Lower	Upper
104	100		
78	57.2	45.7	68.5
103	55.5	43.7	65.5

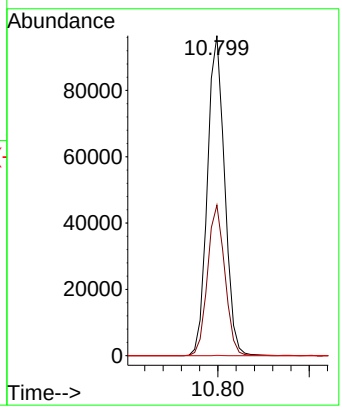




#71
Bromoform
Concen: 127.128 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion:173 Resp: 12598

Ion	Ratio	Lower	Upper
173	100		
175	47.3	23.4	70.0
254	0.1	0.0	0.0#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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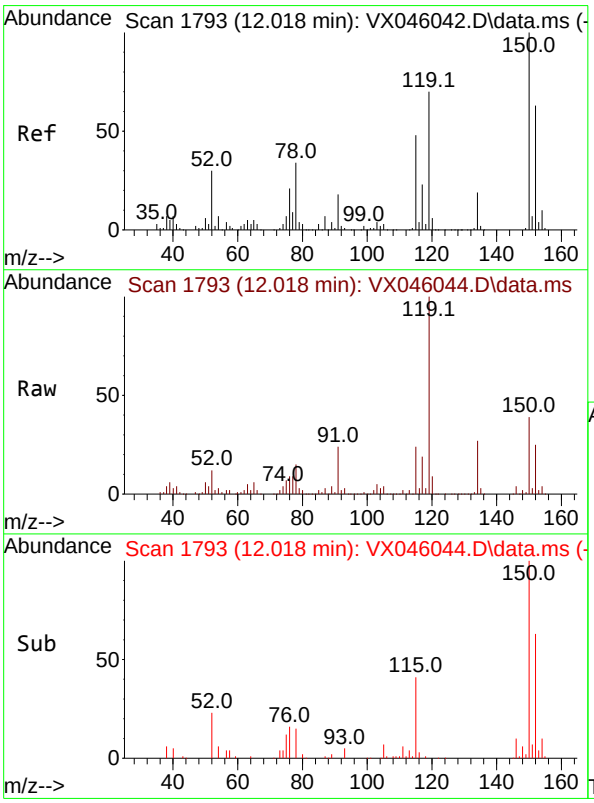
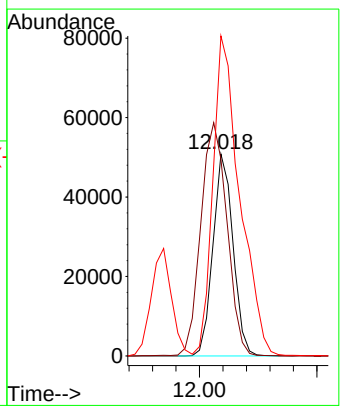
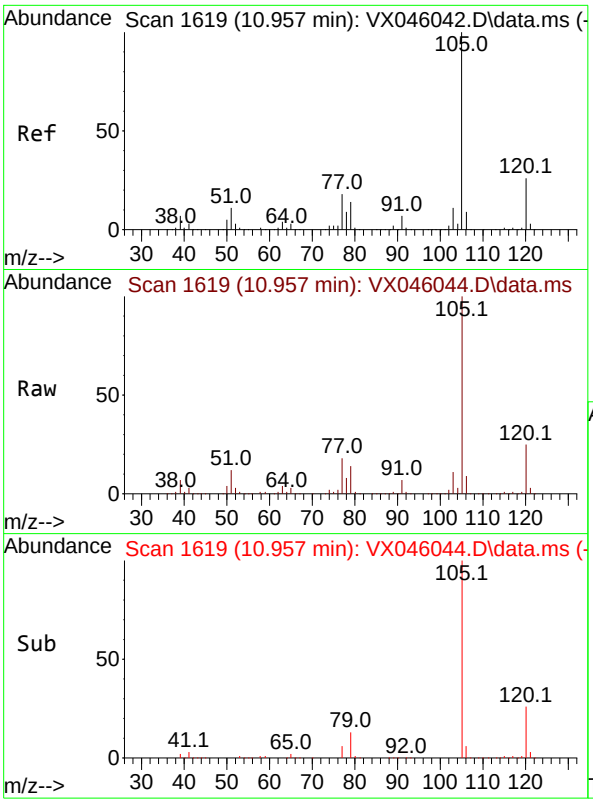


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion:152 Resp: 60345

Ion	Ratio	Lower	Upper
152	100		
115	150.7	46.9	140.7#
150	211.6	0.0	351.0





#73
Isopropylbenzene
Concen: 114.312 ug/l
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion:105 Resp: 75233

Ion	Ratio	Lower	Upper
105	100		
120	25.3	12.8	38.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

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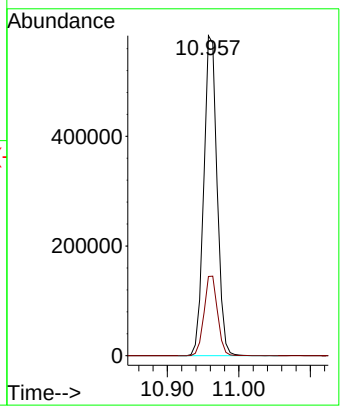
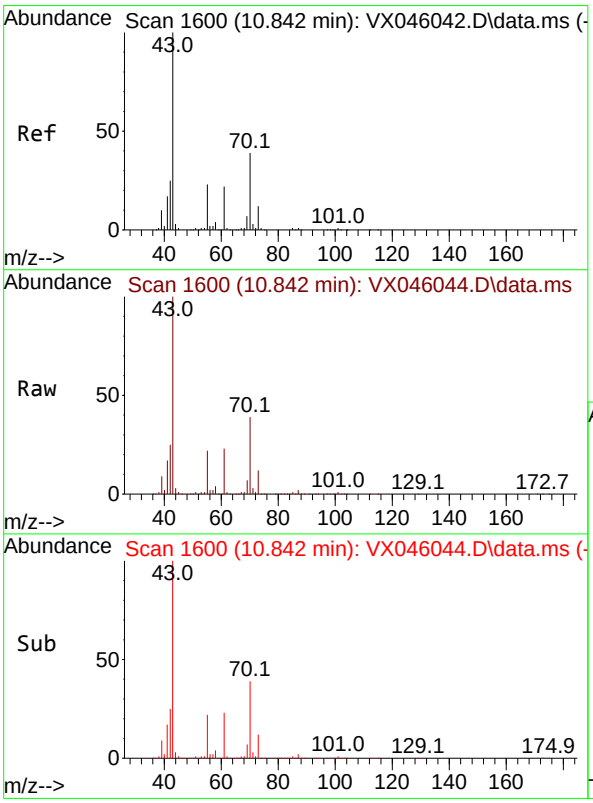
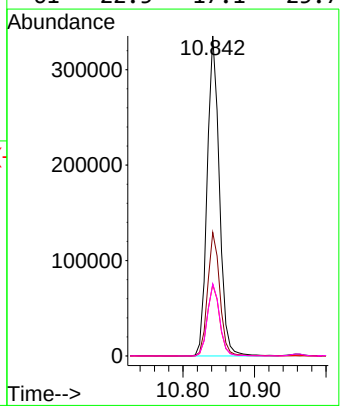


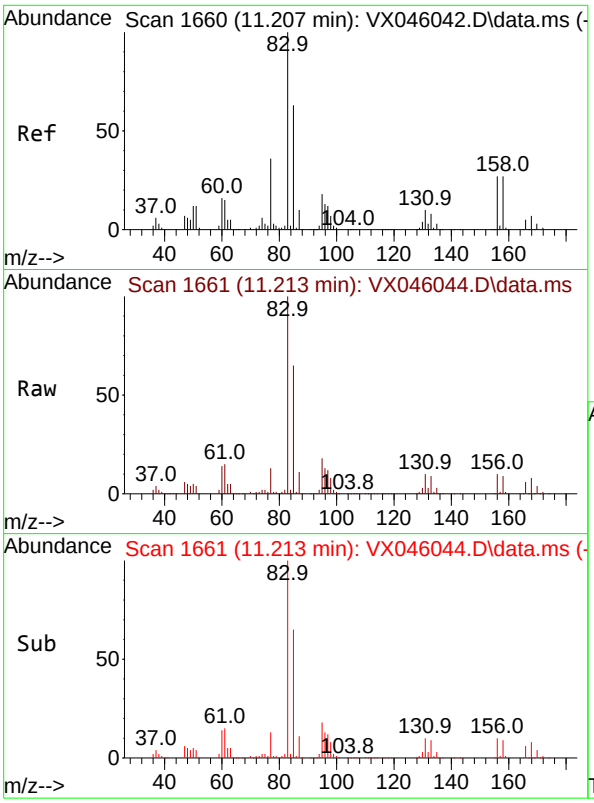


#74
N-amyl acetate
Concen: 120.944 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 43 Resp: 396877

Ion	Ratio	Lower	Upper
43	100		
70	38.5	30.9	46.3
55	22.5	18.7	28.1
61	22.5	17.1	25.7

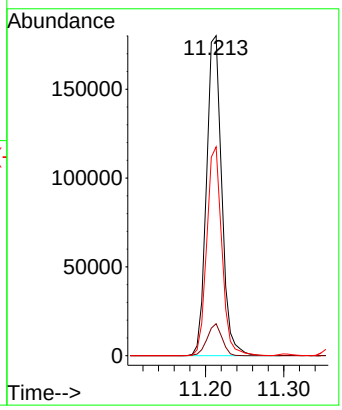




#75
1,1,2,2-Tetrachloroethane
Concen: 104.018 ug/l
RT: 11.213 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 83 Resp: 24353

Ion	Ratio	Lower	Upper
83	100		
131	9.7	5.0	14.9
85	64.4	31.9	95.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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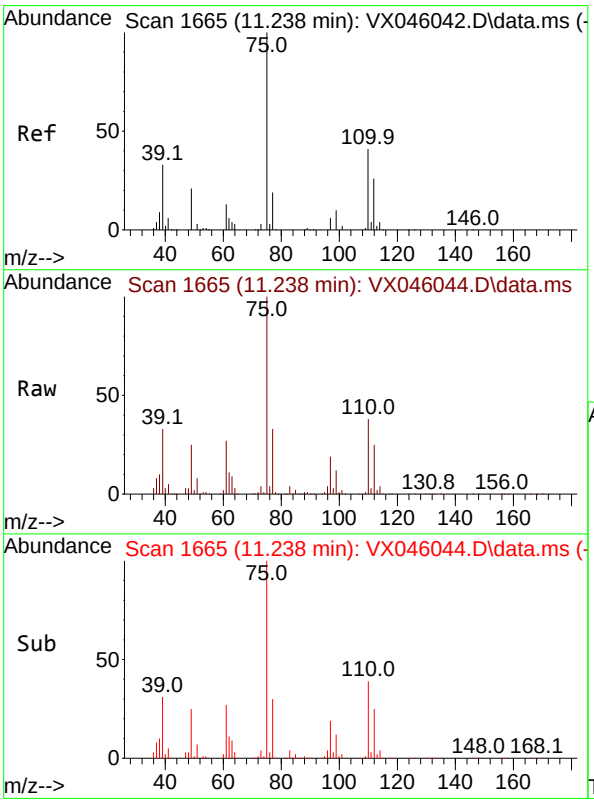
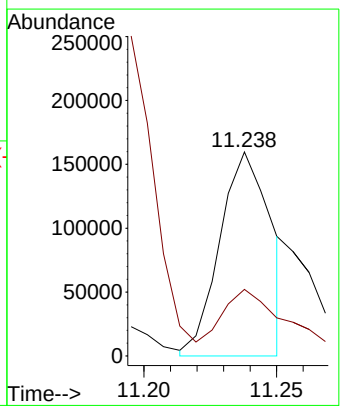
Supervised By :Mahesh Dadoda 05/06/2025

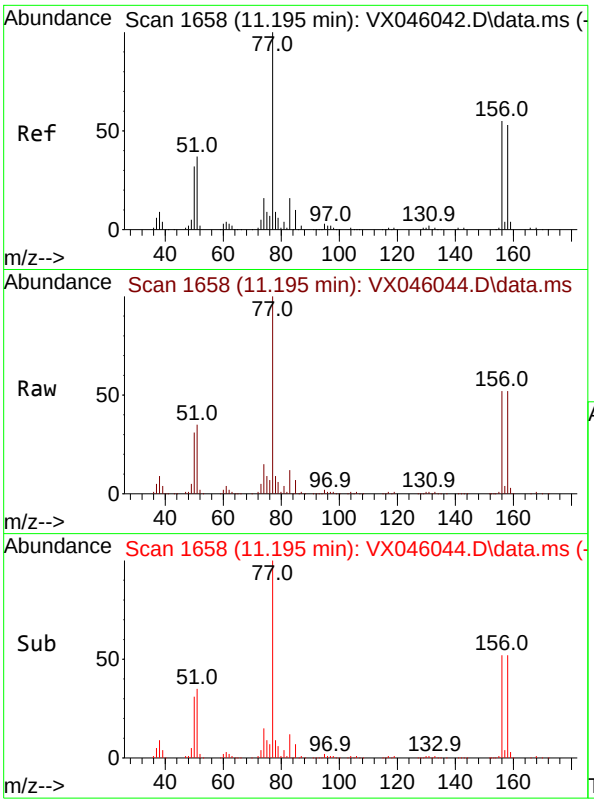


#76
1,2,3-Trichloropropane
Concen: 84.960 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 75 Resp: 213744

Ion	Ratio	Lower	Upper
75	100		
77	42.4	20.5	61.5

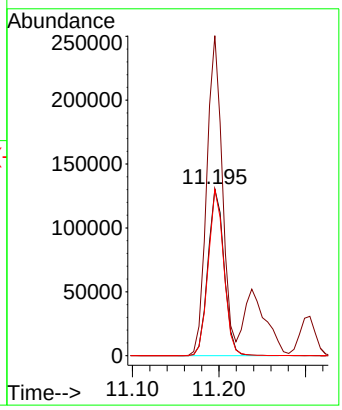




#77
Bromobenzene
Concen: 110.297 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion:156 Resp: 16793

Ion	Ratio	Lower	Upper
156	100		
77	187.1	92.8	278.3
158	97.3	48.8	146.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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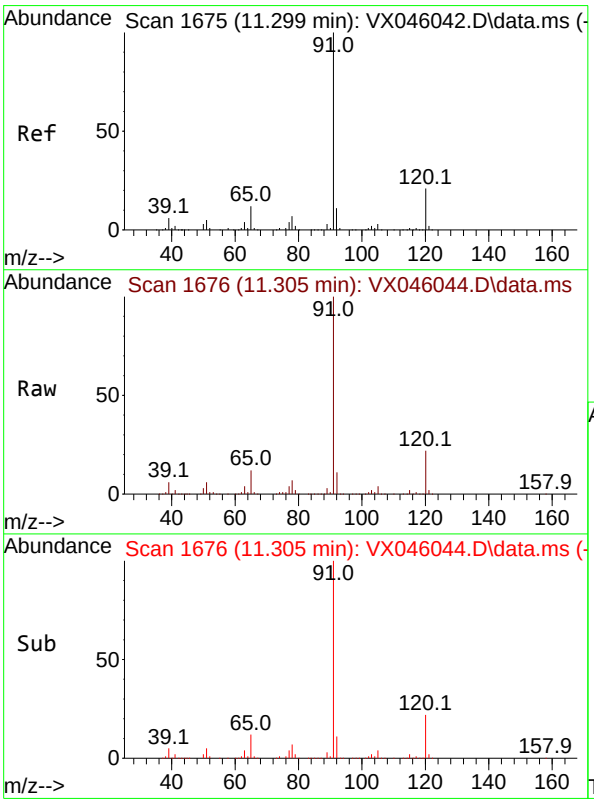
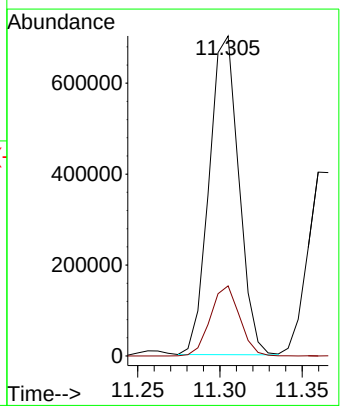
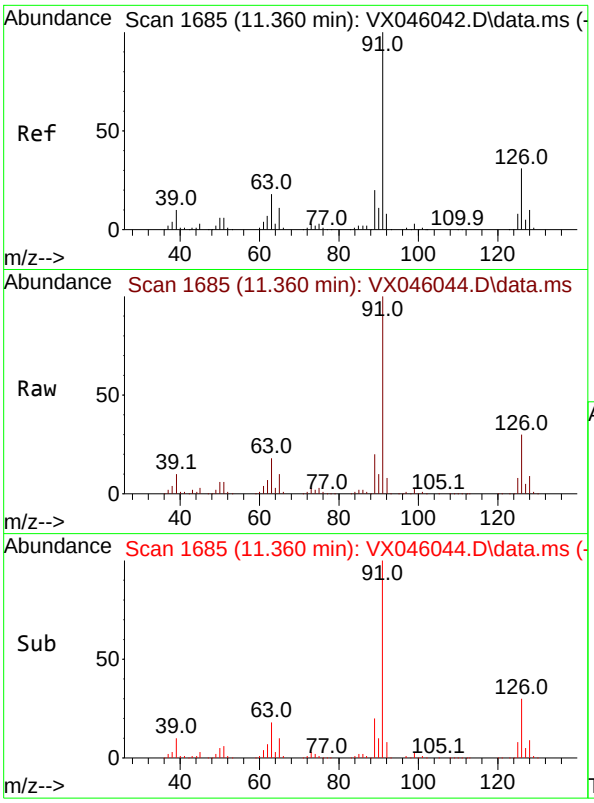


#78
n-propylbenzene
Concen: 119.448 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 91 Resp: 881218

Ion	Ratio	Lower	Upper
91	100		
120	21.7	10.8	32.4

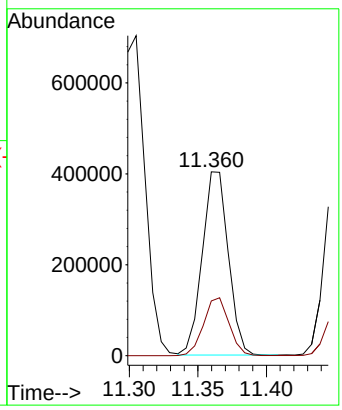




#79
2-Chlorotoluene
Concen: 107.514 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 91 Resp: 53456

Ion	Ratio	Lower	Upper
91	100		
126	31.0	15.6	46.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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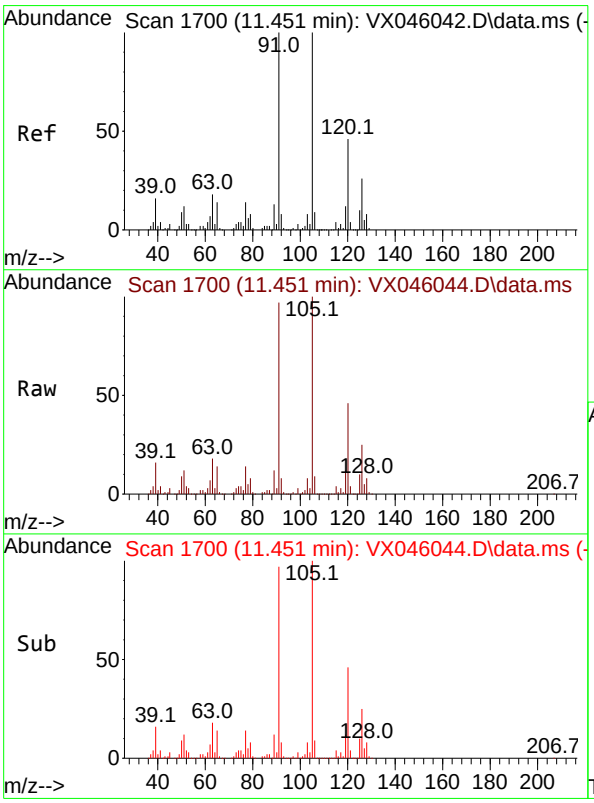
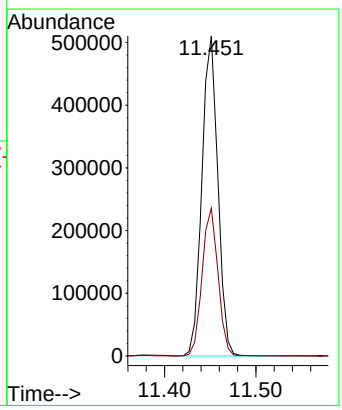
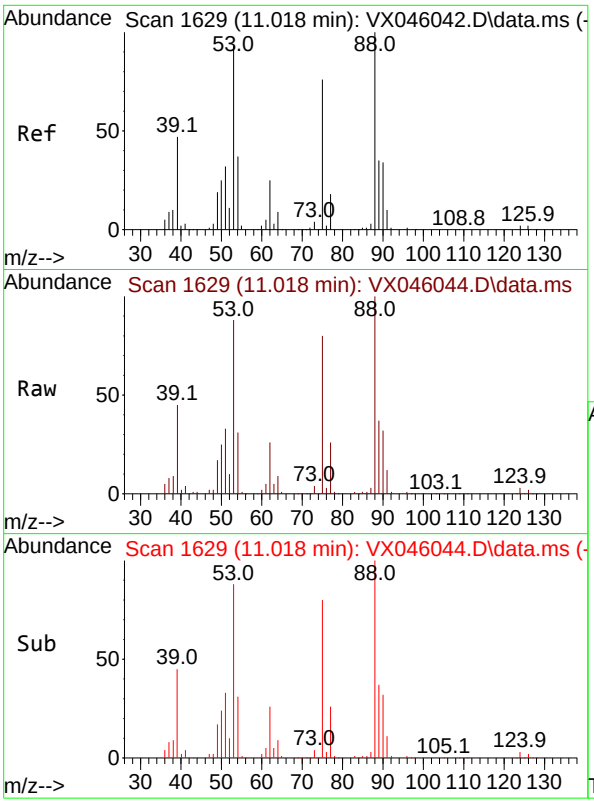


#80
1,3,5-Trimethylbenzene
Concen: 112.825 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion:105 Resp: 616477

Ion	Ratio	Lower	Upper
105	100		
120	46.0	23.1	69.2





#81
trans-1,4-Dichloro-2-butene
Concen: 134.609 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 75 Resp: 8137

Ion	Ratio	Lower	Upper
75	100		
53	114.9	100.5	150.7
89	46.5	37.0	55.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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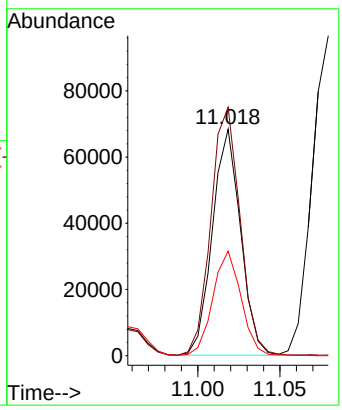
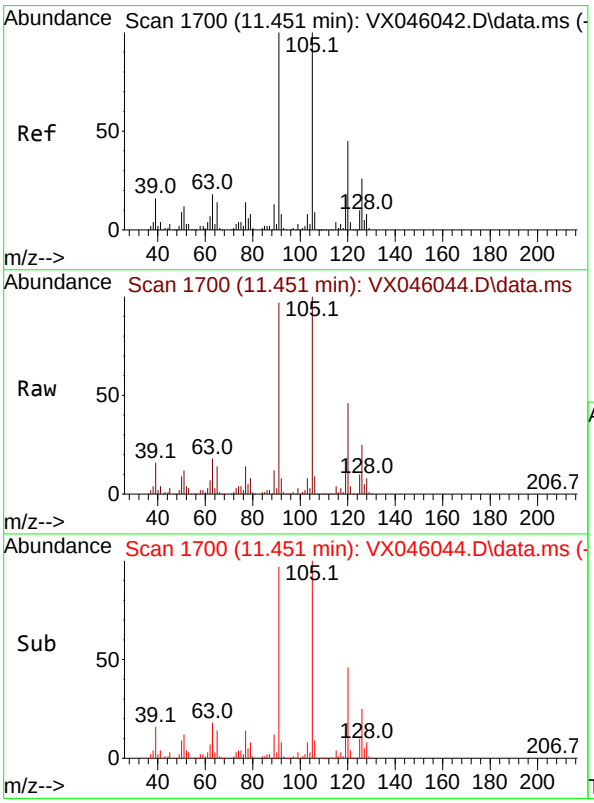
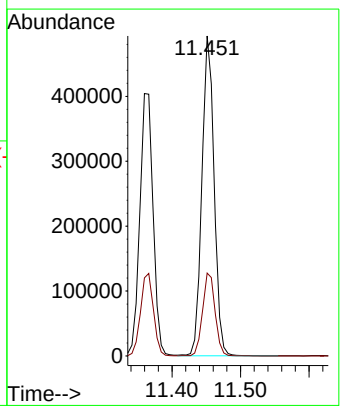


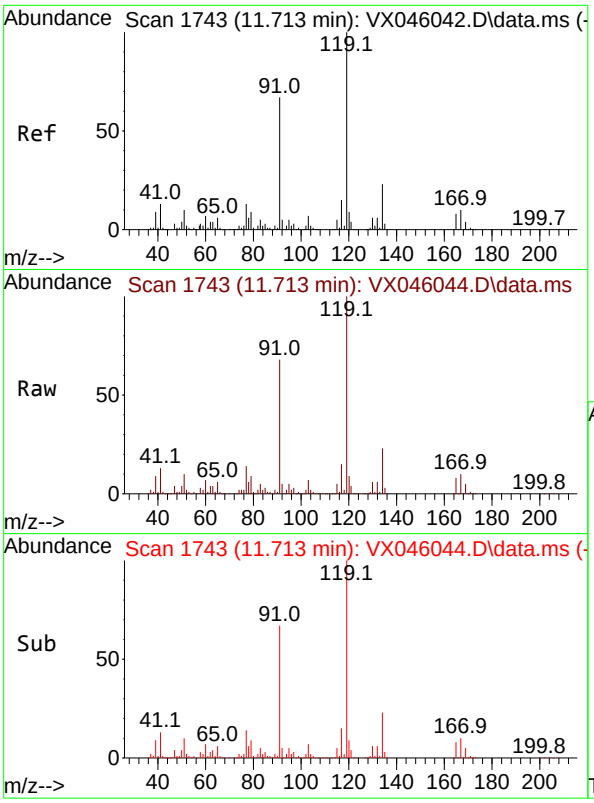


#82
4-Chlorotoluene
Concen: 111.948 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 91 Resp: 611736

Ion	Ratio	Lower	Upper
91	100		
126	26.7	13.3	39.8

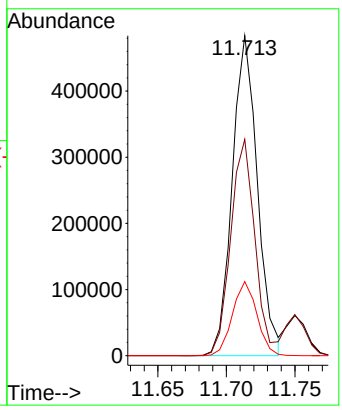




#83
tert-Butylbenzene
Concen: 115.065 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion:119 Resp: 61747

Ion	Ratio	Lower	Upper
119	100		
91	65.6	32.9	98.7
134	22.6	11.4	34.1



Instrument :
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ClientSampleId :
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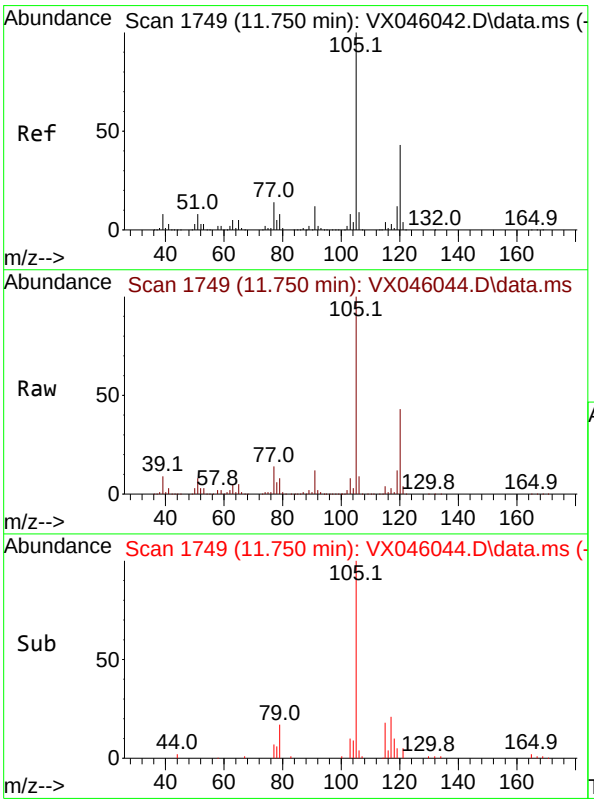
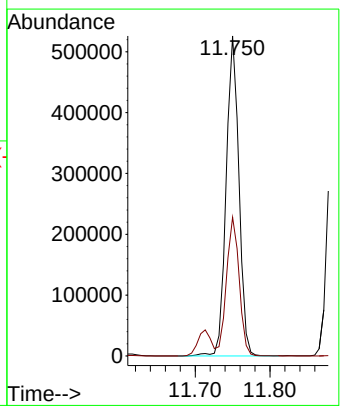
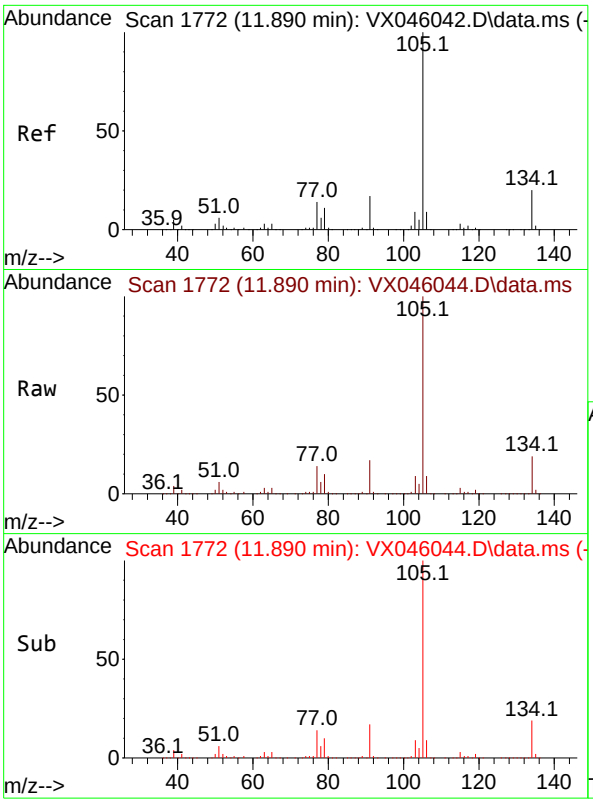


#84
1,2,4-Trimethylbenzene
Concen: 114.236 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion:105 Resp: 623456

Ion	Ratio	Lower	Upper
105	100		
120	43.1	21.2	63.6

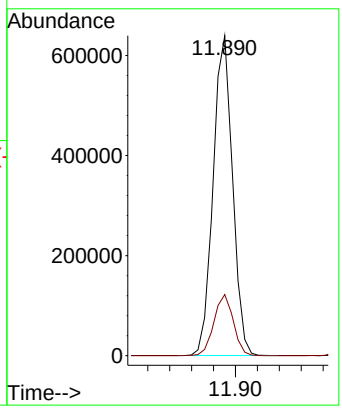




#85
sec-Butylbenzene
Concen: 118.023 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion:105 Resp: 78629

Ion	Ratio	Lower	Upper
105	100		
134	19.1	9.7	29.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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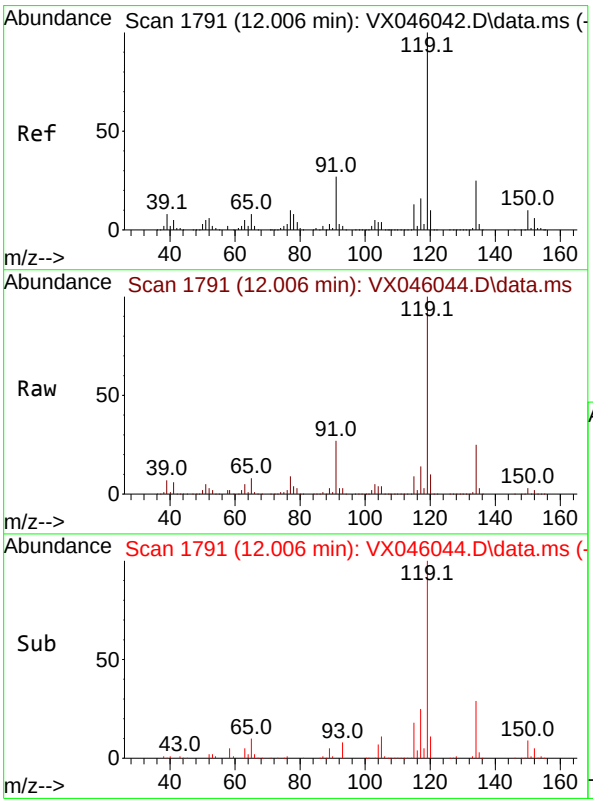
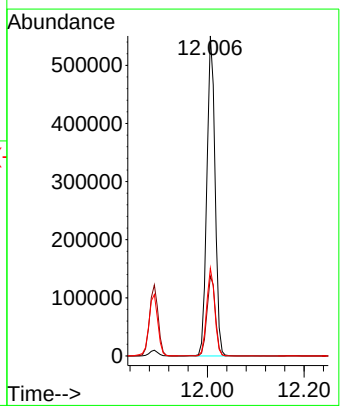
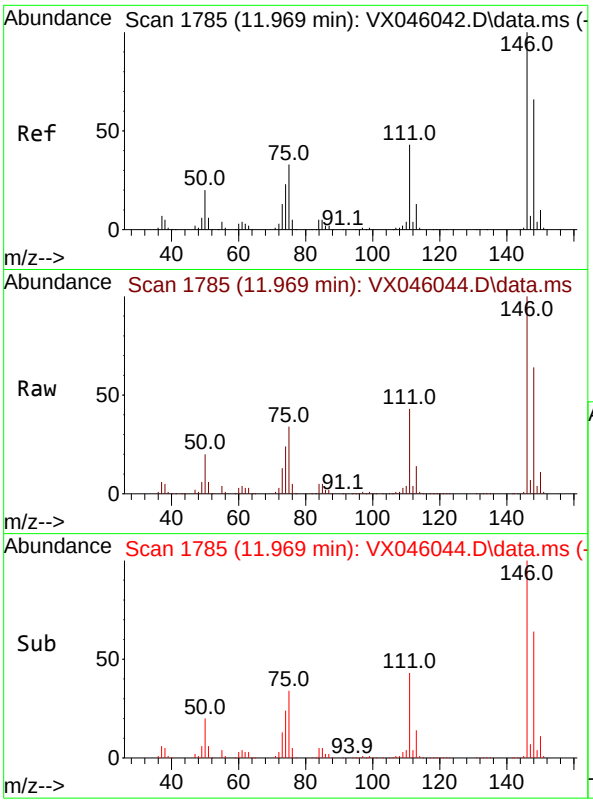


#86
p-Isopropyltoluene
Concen: 121.113 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion:119 Resp: 651531

Ion	Ratio	Lower	Upper
119	100		
134	25.4	12.5	37.5
91	27.0	13.8	41.4

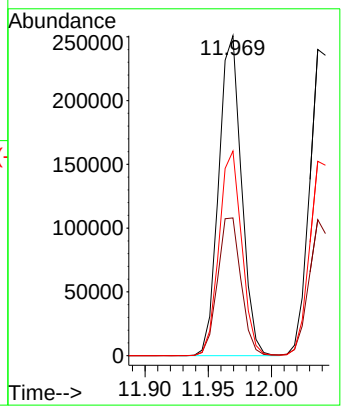




#87
1,3-Dichlorobenzene
Concen: 110.394 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion:146 Resp: 31310

Ion	Ratio	Lower	Upper
146	100		
111	44.5	22.1	66.3
148	64.0	32.1	96.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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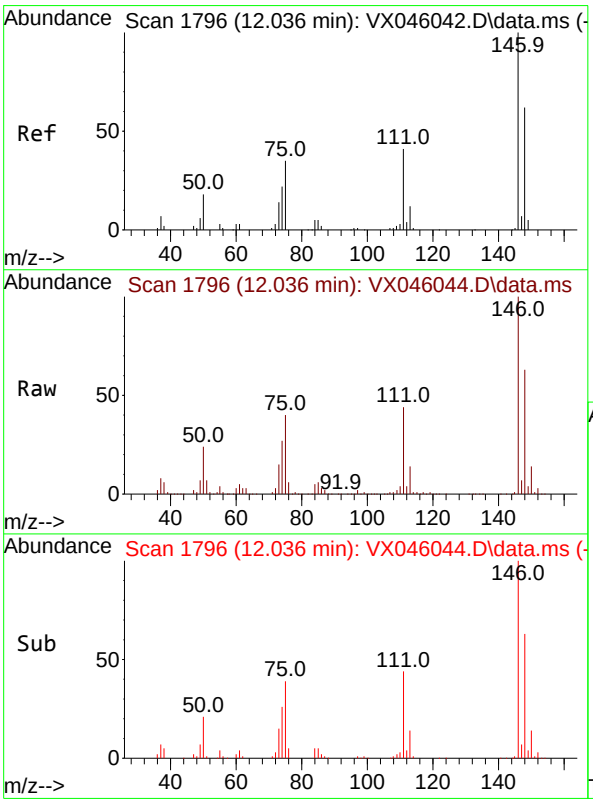
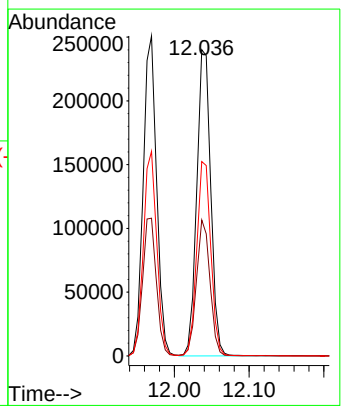
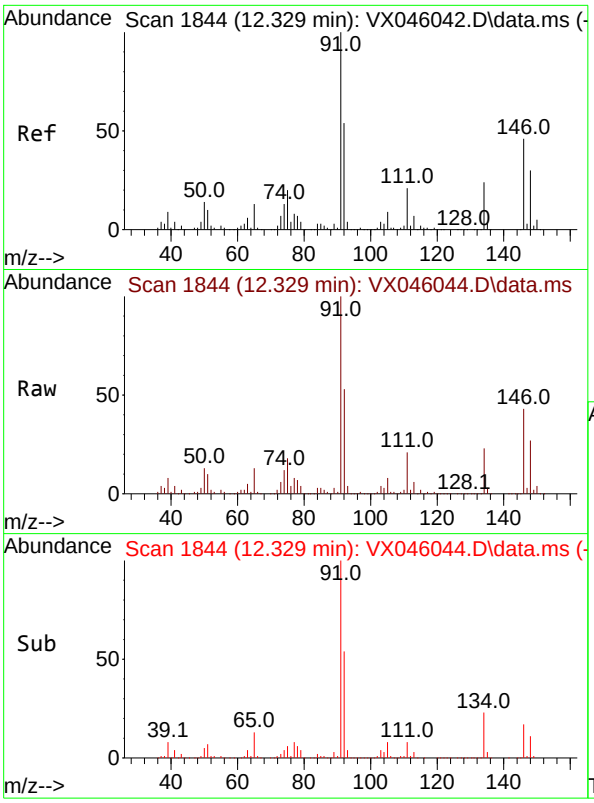


#88
1,4-Dichlorobenzene
Concen: 112.167 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion:146 Resp: 311752

Ion	Ratio	Lower	Upper
146	100		
111	43.0	21.3	63.9
148	63.9	31.9	95.5

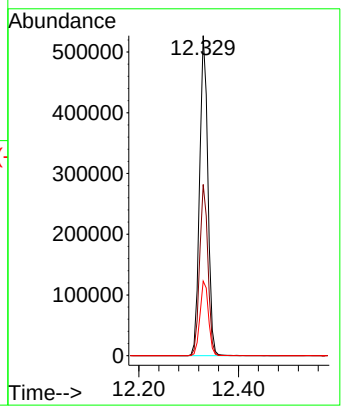




#89
n-Butylbenzene
Concen: 129.533 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 91 Resp: 60578

Ion	Ratio	Lower	Upper
91	100		
92	53.6	26.9	80.7
134	24.0	11.8	35.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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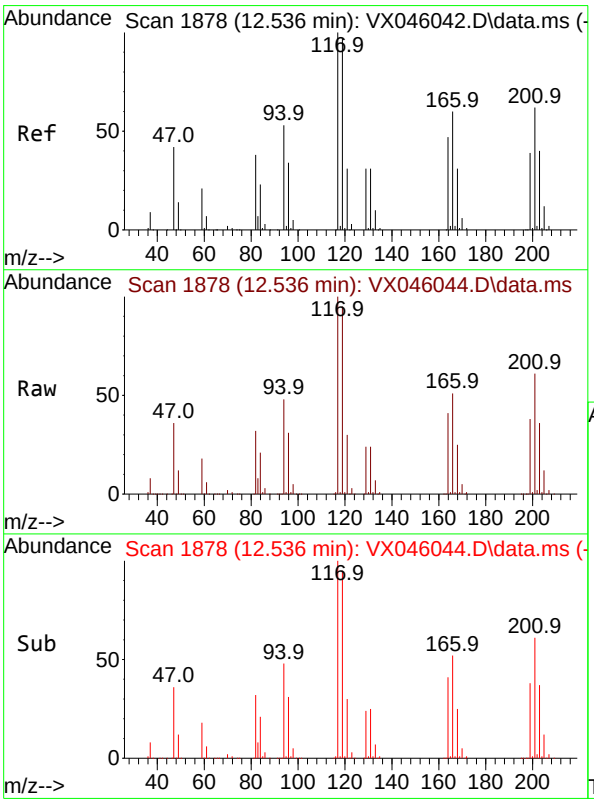
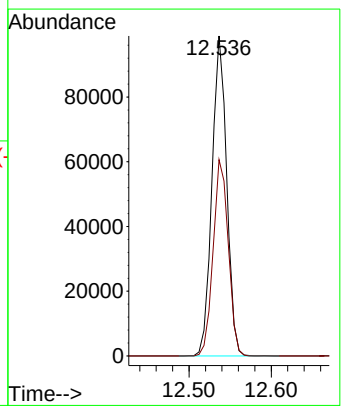
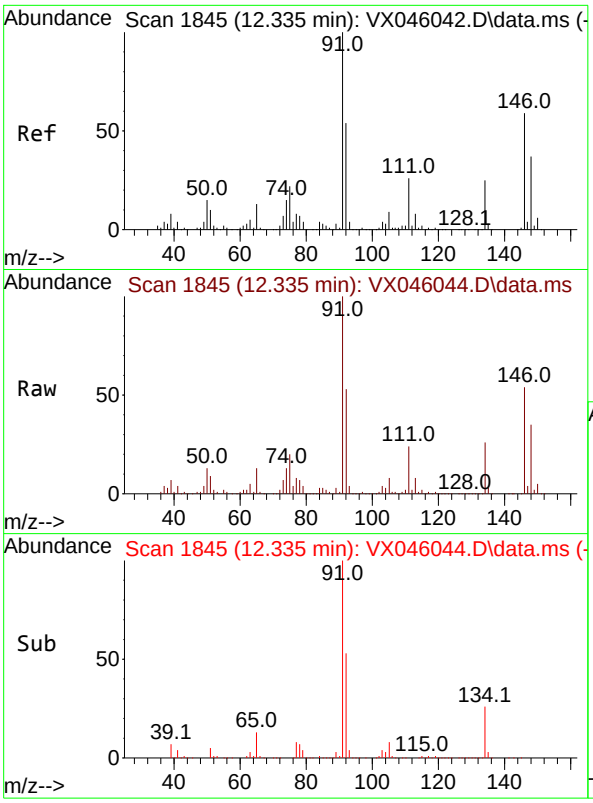


#90
Hexachloroethane
Concen: 123.091 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion:117 Resp: 123188

Ion	Ratio	Lower	Upper
117	100		
201	63.2	31.6	94.7

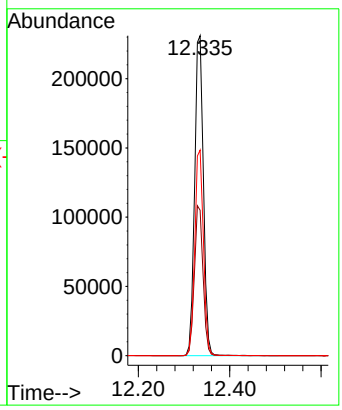




#91
1,2-Dichlorobenzene
Concen: 111.506 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion:146 Resp: 30803

Ion	Ratio	Lower	Upper
146	100		
111	46.3	22.4	67.3
148	63.6	31.6	94.8



Instrument :
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ClientSampleId :
VSTDICC150

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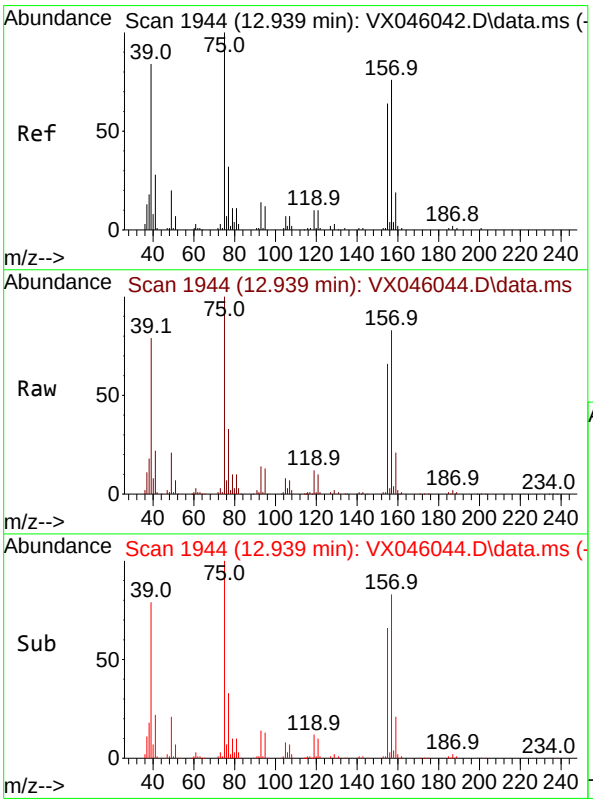
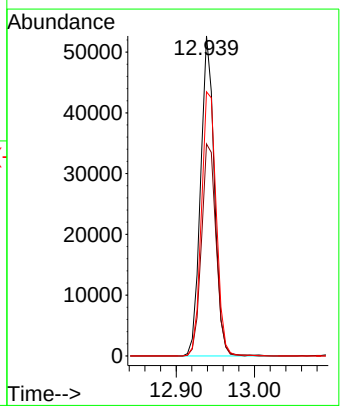
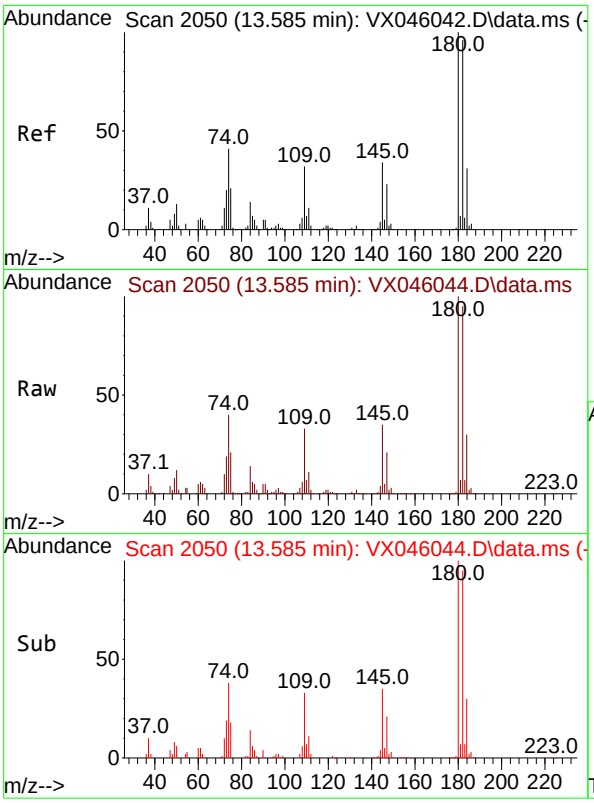


#92
1,2-Dibromo-3-Chloropropane
Concen: 120.915 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 75 Resp: 64438

Ion	Ratio	Lower	Upper
75	100		
155	69.6	34.9	104.8
157	88.4	43.8	131.4

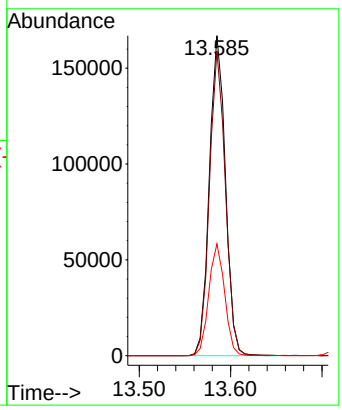




#93
1,2,4-Trichlorobenzene
Concen: 134.366 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion:180 Resp: 20325

Ion	Ratio	Lower	Upper
180	100		
182	94.1	47.9	143.8
145	34.5	17.1	51.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
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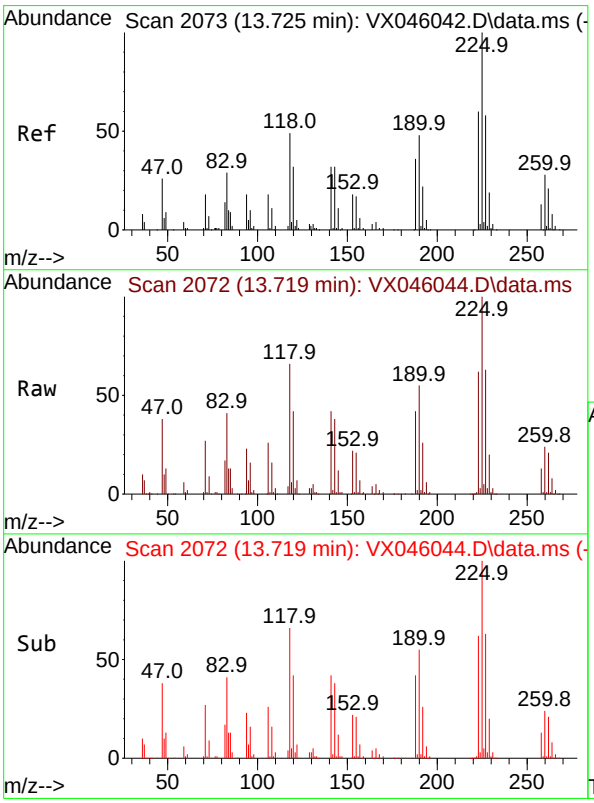
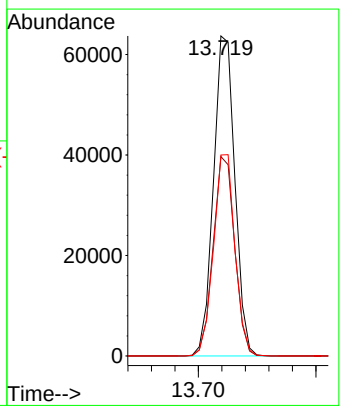
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

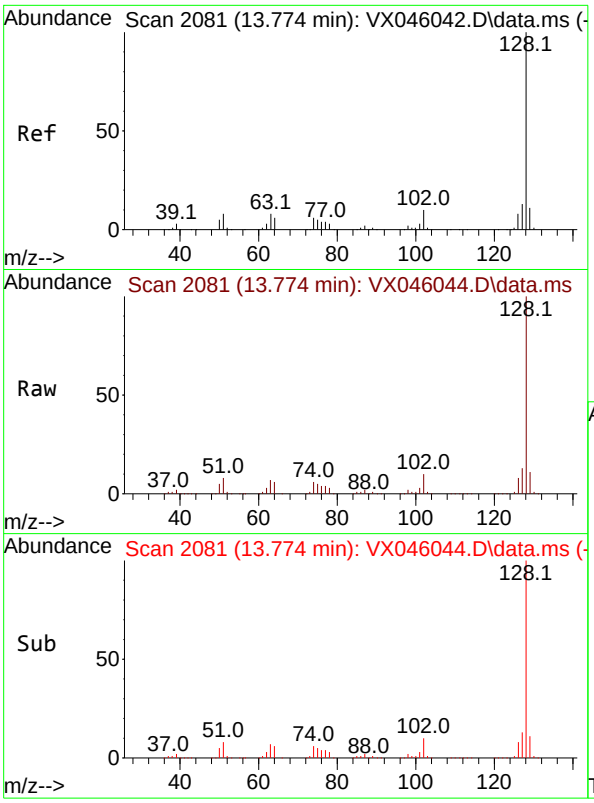


#94
Hexachlorobutadiene
Concen: 113.857 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. -0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion:225 Resp: 80558

Ion	Ratio	Lower	Upper
225	100		
223	62.5	30.8	92.4
227	63.1	30.9	92.7

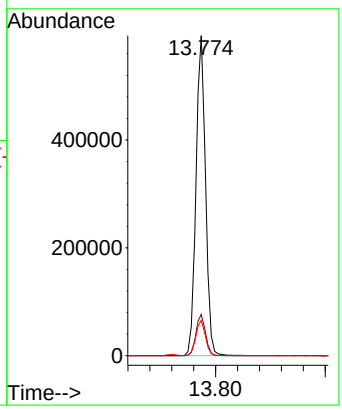




#95
Naphthalene
Concen: 130.929 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion:128 Resp: 72123

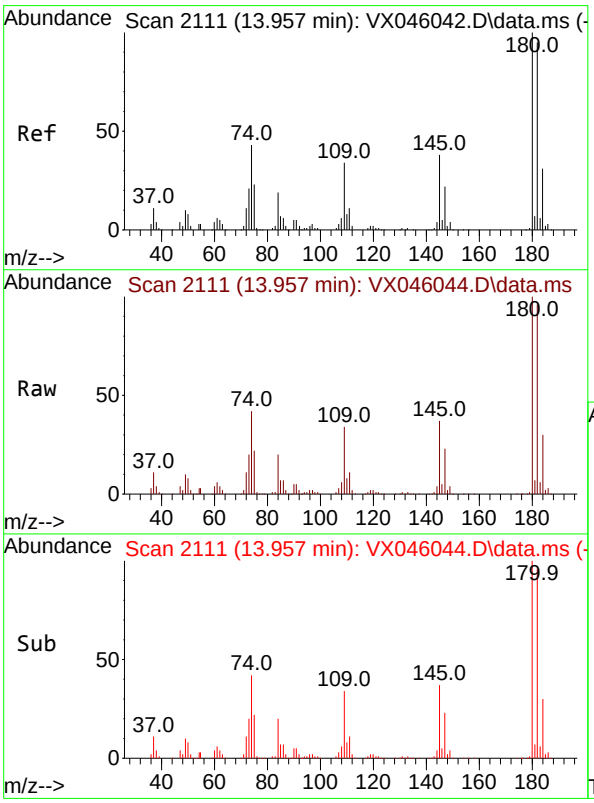
Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.4	15.6
129	11.0	8.6	13.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

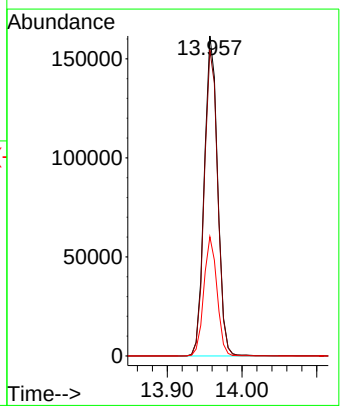
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025



#96
1,2,3-Trichlorobenzene
Concen: 126.331 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion:180 Resp: 200379

Ion	Ratio	Lower	Upper
180	100		
182	96.5	47.8	143.3
145	36.7	18.1	54.3



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046046.D
Acq On : 05 May 2025 16:04
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

Quant Time: May 06 06:12:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.538	168	96964	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	168484	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	147167	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	67939	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	9067	3.143	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	6.280%#		
35) Dibromofluoromethane	5.373	113	5969	3.161	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	6.320%#		
50) Toluene-d8	8.647	98	20566	3.232	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	6.460%#		
62) 4-Bromofluorobenzene	11.079	95	7822	3.378	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	6.760%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	6195	2.894	ug/l	95
3) Chloromethane	1.307	50	6587	3.125	ug/l	99
4) Vinyl Chloride	1.374	62	5999	3.249	ug/l	96
5) Bromomethane	1.593	94	2962	3.164	ug/l	88
6) Chloroethane	1.666	64	3567	3.750	ug/l	94
7) Trichlorofluoromethane	1.874	101	9599	3.413	ug/l	88
8) Diethyl Ether	2.130	74	3020	3.266	ug/l	95
9) 1,1,2-Trichlorotrifluo...	2.325	101	5911	3.517	ug/l	99
10) Methyl Iodide	2.441	142	5900	2.990	ug/l	99
11) Tert butyl alcohol	2.965	59	5539	16.111	ug/l	98
12) 1,1-Dichloroethene	2.306	96	5496	3.359	ug/l	97
13) Acrolein	2.233	56	5673	14.206	ug/l	95
14) Allyl chloride	2.654	41	10262	3.319	ug/l	98
15) Acrylonitrile	3.062	53	16746	16.282	ug/l	97
16) Acetone	2.380	43	19773	20.036	ug/l	98
17) Carbon Disulfide	2.501	76	11068	2.919	ug/l	96
18) Methyl Acetate	2.703	43	7909	3.357	ug/l	100
19) Methyl tert-butyl Ether	3.111	73	18497	3.241	ug/l	97
20) Methylene Chloride	2.782	84	6680	3.341	ug/l	97
21) trans-1,2-Dichloroethene	3.081	96	5402	3.234	ug/l	100
22) Diisopropyl ether	3.751	45	18657	3.230	ug/l #	65
23) Vinyl Acetate	3.715	43	82328	16.127	ug/l	99
24) 1,1-Dichloroethane	3.605	63	11193	3.297	ug/l	99
25) 2-Butanone	4.562	43	26125	18.340	ug/l	98
26) 2,2-Dichloropropane	4.465	77	8245	3.205	ug/l	96
27) cis-1,2-Dichloroethene	4.483	96	6222	3.089	ug/l	95
28) Bromochloromethane	4.891	49	5360	2.969	ug/l #	100
29) Tetrahydrofuran	5.001	42	15431	16.680	ug/l	98
30) Chloroform	5.080	83	11624	3.294	ug/l	89
31) Cyclohexane	5.458	56	10269	3.588	ug/l	96
32) 1,1,1-Trichloroethane	5.367	97	9827	3.229	ug/l	97
36) 1,1-Dichloropropene	5.678	75	7787	3.551	ug/l	98
37) Ethyl Acetate	4.721	43	9806m	3.565	ug/l	
38) Carbon Tetrachloride	5.659	117	8505	3.376	ug/l	97
39) Methylcyclohexane	7.373	83	9882	3.597	ug/l	93
40) Benzene	6.031	78	22528	3.315	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046046.D
Acq On : 05 May 2025 16:04
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 06 06:12:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.916	41	4851	3.174	ug/l	#	65
42) 1,2-Dichloroethane	6.080	62	10011	3.563	ug/l		100
43) Isopropyl Acetate	6.348	43	13914	3.309	ug/l		96
44) Trichloroethene	7.123	130	5313	3.307	ug/l		94
45) 1,2-Dichloropropane	7.427	63	5451	3.228	ug/l	#	89
46) Dibromomethane	7.580	93	4417	3.318	ug/l		98
47) Bromodichloromethane	7.818	83	8394	3.254	ug/l		98
48) Methyl methacrylate	7.696	41	7171	3.321	ug/l		97
49) 1,4-Dioxane	7.659	88	2907	67.721	ug/l		96
51) 4-Methyl-2-Pentanone	8.567	43	46794	16.967	ug/l		98
52) Toluene	8.714	92	14126	3.505	ug/l		97
53) t-1,3-Dichloropropene	8.976	75	6834	3.155	ug/l		100
54) cis-1,3-Dichloropropene	8.366	75	7908	3.129	ug/l		91
55) 1,1,2-Trichloroethane	9.153	97	5685	3.490	ug/l		98
56) Ethyl methacrylate	9.116	69	8555	3.390	ug/l		98
57) 1,3-Dichloropropane	9.305	76	10127	3.508	ug/l		94
58) 2-Chloroethyl Vinyl ether	8.238	63	20809	18.346	ug/l		99
59) 2-Hexanone	9.427	43	34853	16.651	ug/l		97
60) Dibromochloromethane	9.518	129	5500	3.102	ug/l		98
61) 1,2-Dibromoethane	9.604	107	5614	3.356	ug/l		99
64) Tetrachloroethene	9.269	164	4752	3.162	ug/l		96
65) Chlorobenzene	10.079	112	15391	3.399	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.159	131	5024	3.326	ug/l		99
67) Ethyl Benzene	10.195	91	26732	3.463	ug/l		99
68) m/p-Xylenes	10.299	106	19957	7.156	ug/l		98
69) o-Xylene	10.640	106	9398	3.343	ug/l		95
70) Styrene	10.652	104	14900	3.312	ug/l		99
71) Bromoform	10.799	173	3470	3.059	ug/l	#	99
73) Isopropylbenzene	10.957	105	24201	3.266	ug/l		98
74) N-amyl acetate	10.841	43	11224	3.038	ug/l		96
75) 1,1,2,2-Tetrachloroethane	11.207	83	9170	3.479	ug/l		97
76) 1,2,3-Trichloropropane	11.238	75	7928m	2.799	ug/l		
77) Bromobenzene	11.195	156	5857	3.417	ug/l		96
78) n-propylbenzene	11.299	91	28436	3.424	ug/l		100
79) 2-Chlorotoluene	11.360	91	18672	3.336	ug/l		97
80) 1,3,5-Trimethylbenzene	11.451	105	20742	3.372	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	1828	2.686	ug/l		99
82) 4-Chlorotoluene	11.451	91	19966	3.245	ug/l		98
83) tert-Butylbenzene	11.713	119	21049	3.484	ug/l		98
84) 1,2,4-Trimethylbenzene	11.750	105	20613	3.355	ug/l		97
85) sec-Butylbenzene	11.890	105	25590	3.412	ug/l		99
86) p-Isopropyltoluene	12.006	119	20955	3.460	ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	10585	3.315	ug/l		97
88) 1,4-Dichlorobenzene	12.036	146	10908	3.486	ug/l		90
89) n-Butylbenzene	12.329	91	18004	3.419	ug/l		94
90) Hexachloroethane	12.536	117	3553	3.153	ug/l		94
91) 1,2-Dichlorobenzene	12.335	146	10712	3.444	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.945	75	1687	2.812	ug/l		99
93) 1,2,4-Trichlorobenzene	13.585	180	5720	3.359	ug/l		96
94) Hexachlorobutadiene	13.719	225	2816	3.535	ug/l		96
95) Naphthalene	13.774	128	19902	3.209	ug/l		99
96) 1,2,3-Trichlorobenzene	13.957	180	5745	3.217	ug/l		97

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046046.D
Acq On : 05 May 2025 16:04
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 06 06:12:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

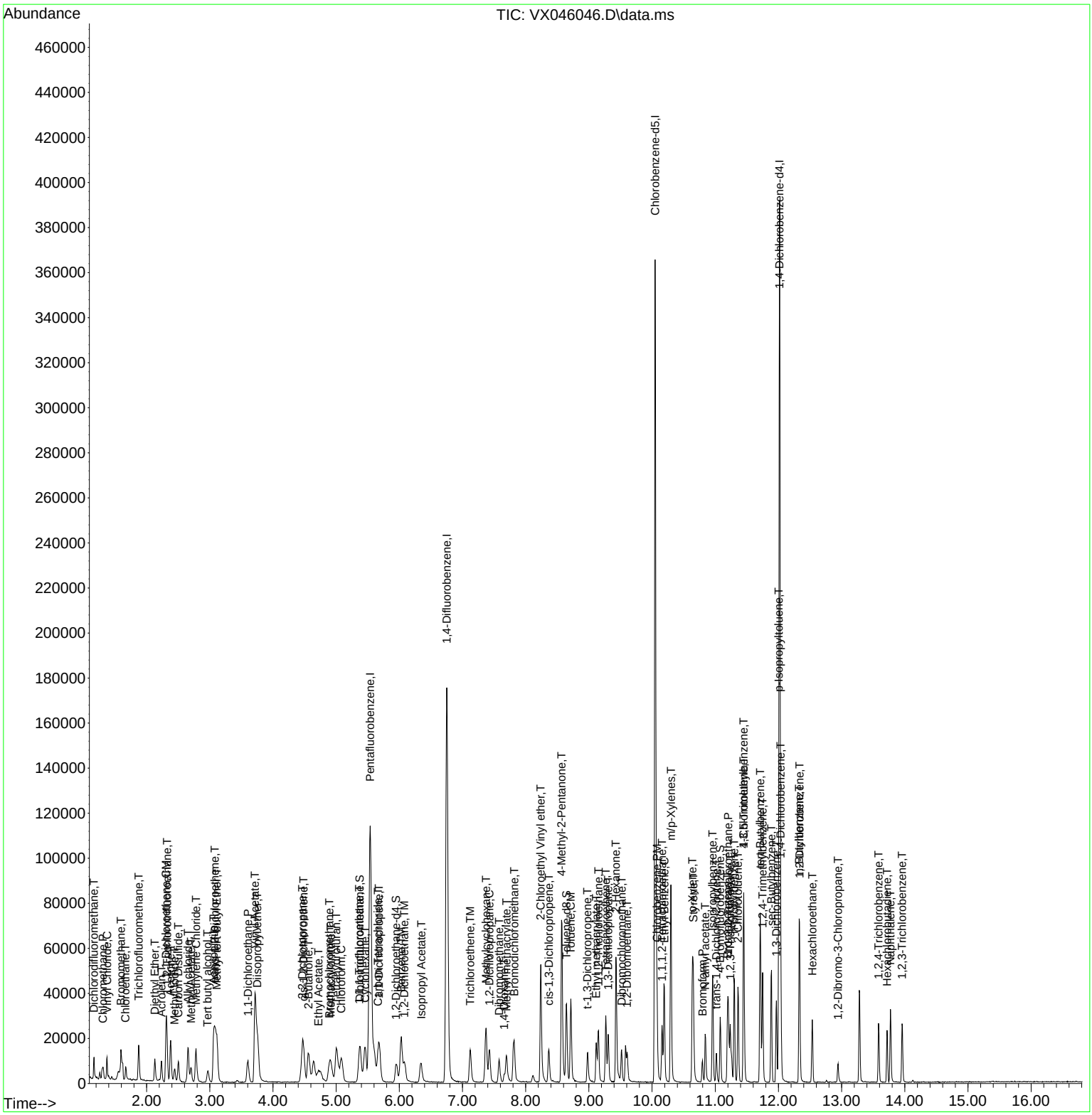
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046046.D
Acq On : 05 May 2025 16:04
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

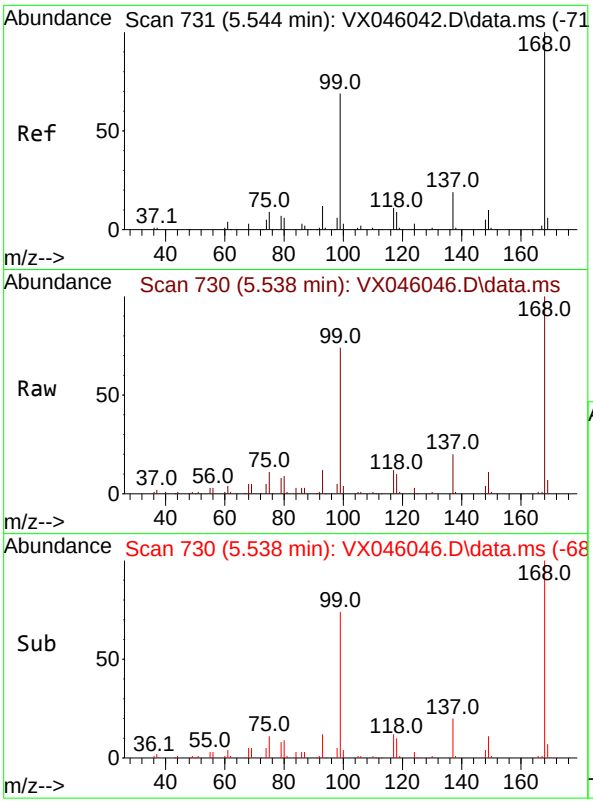
Quant Time: May 06 06:12:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

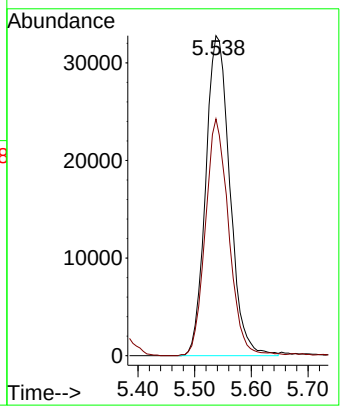




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion:168 Resp: 9696

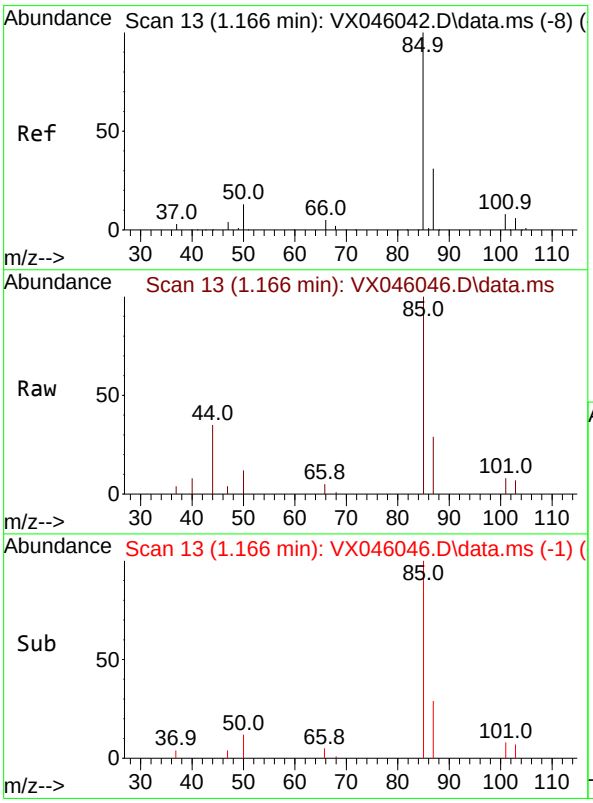
Ion	Ratio	Lower	Upper
168	100		
99	74.0	54.9	82.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

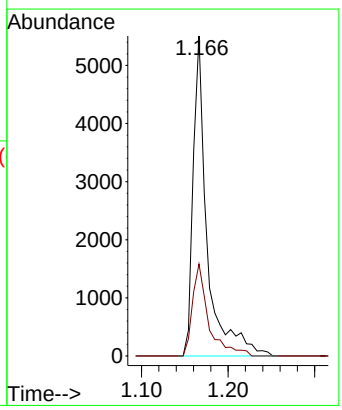
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

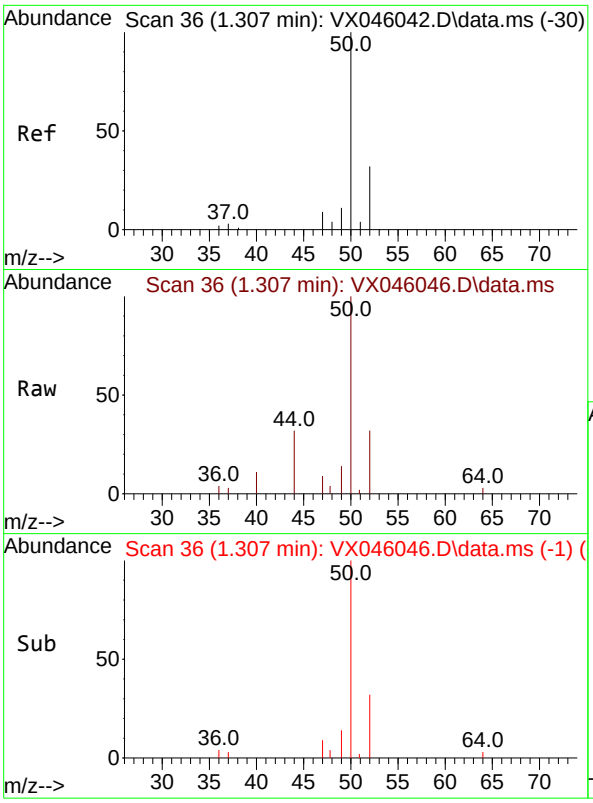


#2
Dichlorodifluoromethane
Concen: 2.894 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 85 Resp: 6195

Ion	Ratio	Lower	Upper
85	100		
87	28.7	15.7	47.1

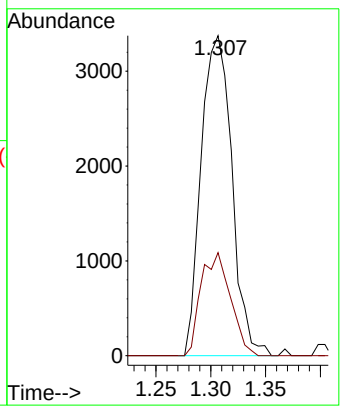




#3
Chloromethane
Concen: 3.125 ug/l
RT: 1.307 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 50 Resp: 658

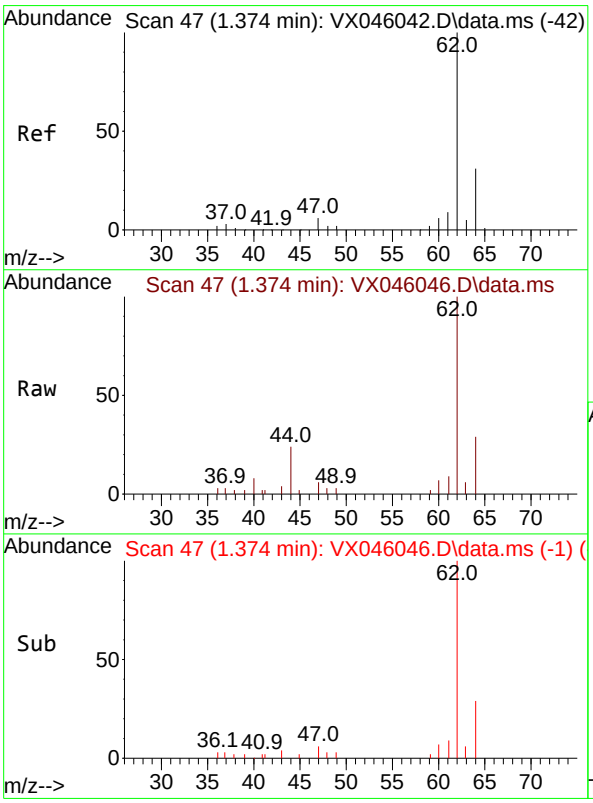
Ion	Ratio	Lower	Upper
50	100		
52	32.2	25.4	38.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

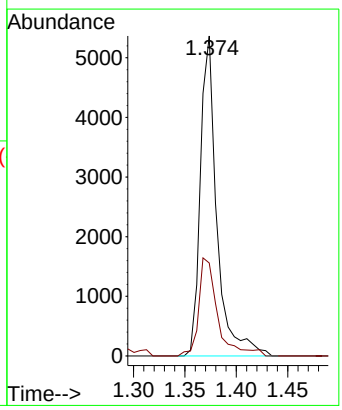
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

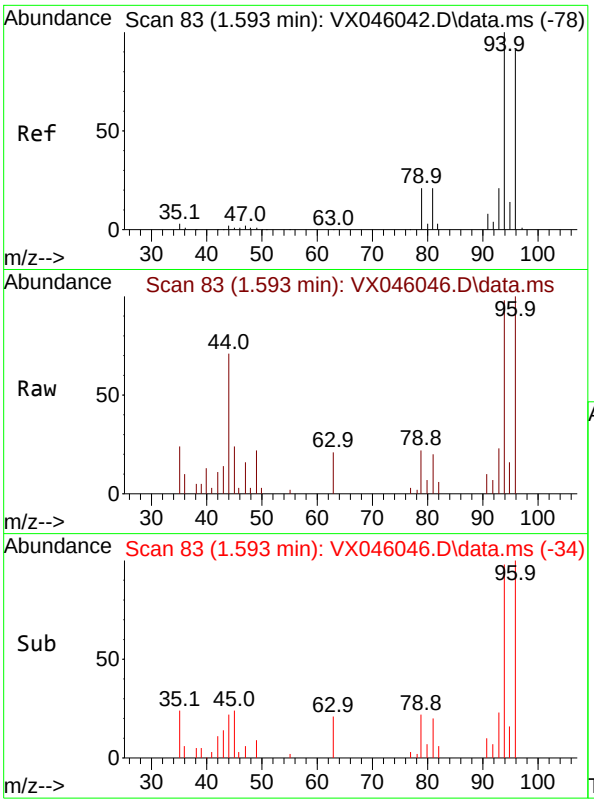


#4
Vinyl Chloride
Concen: 3.249 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 62 Resp: 5999

Ion	Ratio	Lower	Upper
62	100		
64	29.1	25.2	37.8

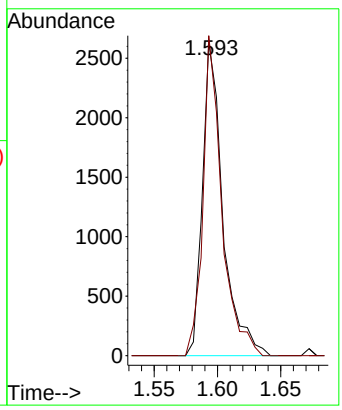




#5
Bromomethane
Concen: 3.164 ug/l
RT: 1.593 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 94 Resp: 296

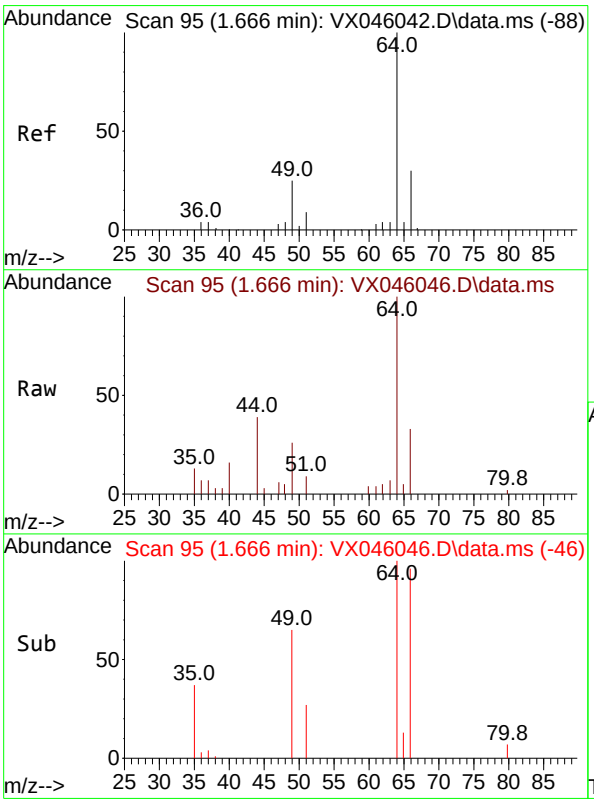
Ion	Ratio	Lower	Upper
94	100		
96	102.2	72.8	109.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

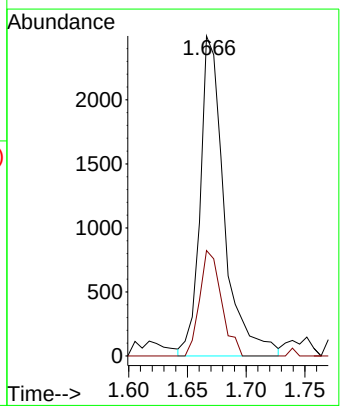
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

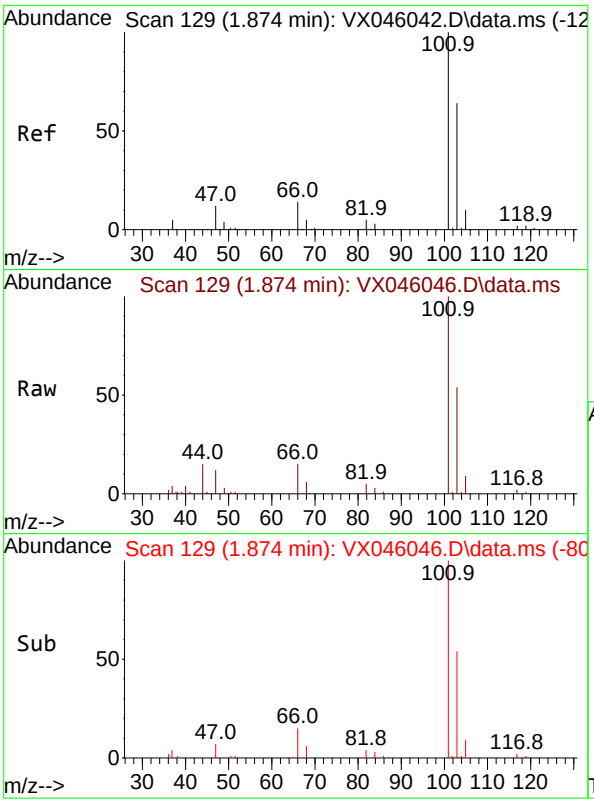


#6
Chloroethane
Concen: 3.750 ug/l
RT: 1.666 min Scan# 95
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 64 Resp: 3567

Ion	Ratio	Lower	Upper
64	100		
66	33.7	24.3	36.5

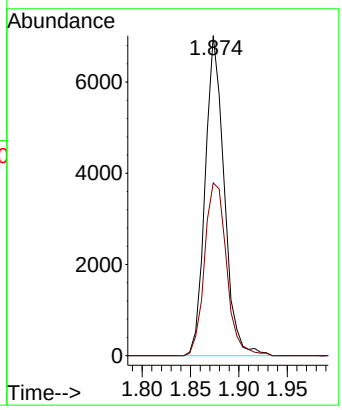




#7
Trichlorofluoromethane
Concen: 3.413 ug/l
RT: 1.874 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion:101 Resp: 959

Ion	Ratio	Lower	Upper
101	100		
103	54.0	51.0	76.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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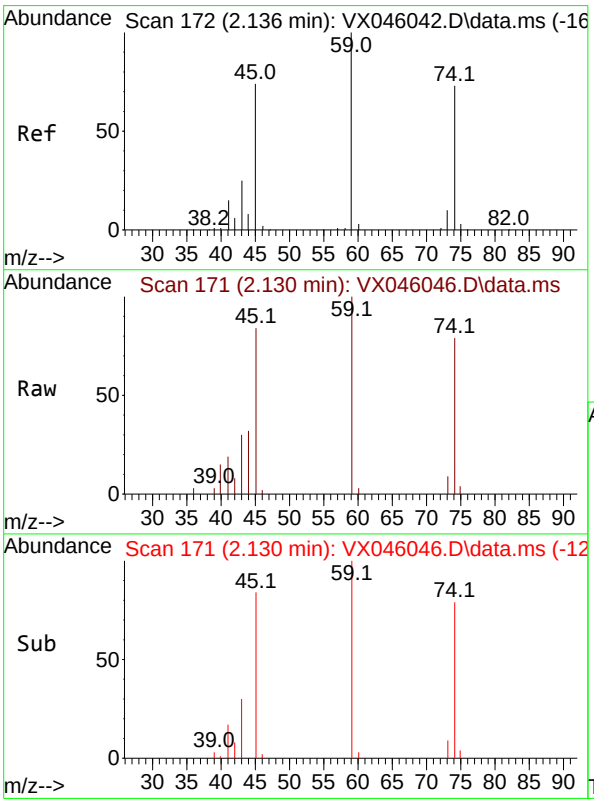
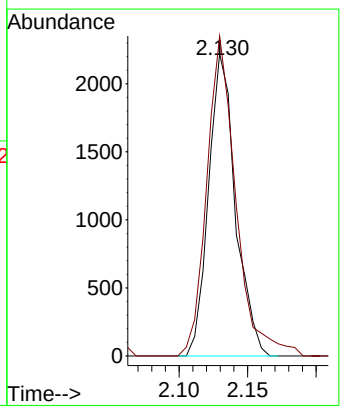
Supervised By :Mahesh Dadoda 05/06/2025

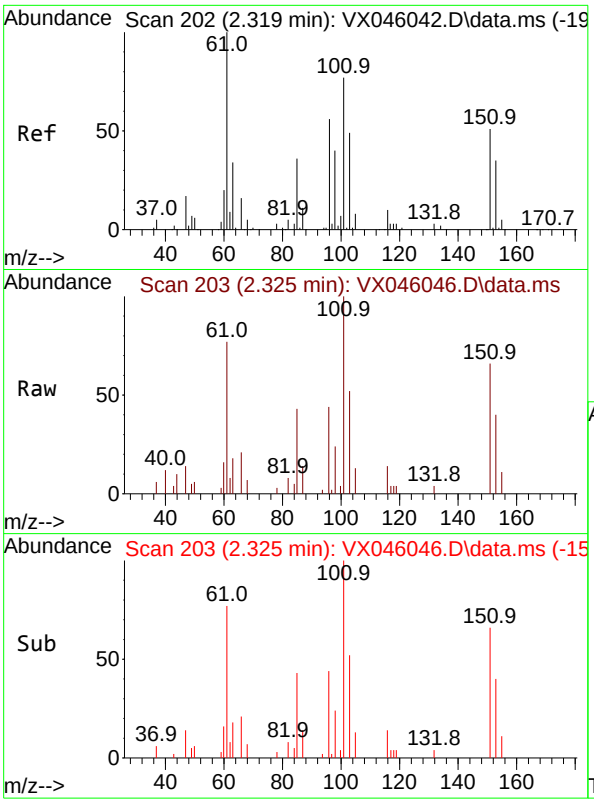


#8
Diethyl Ether
Concen: 3.266 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 74 Resp: 3020

Ion	Ratio	Lower	Upper
74	100		
45	115.1	54.9	164.8

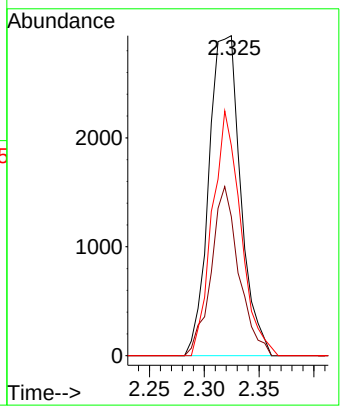




#9
1,1,2-Trichlorotrifluoroethane
Concen: 3.517 ug/l
RT: 2.325 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion:101 Resp: 591

Ion	Ratio	Lower	Upper
101	100		
85	46.3	38.6	58.0
151	68.8	55.2	82.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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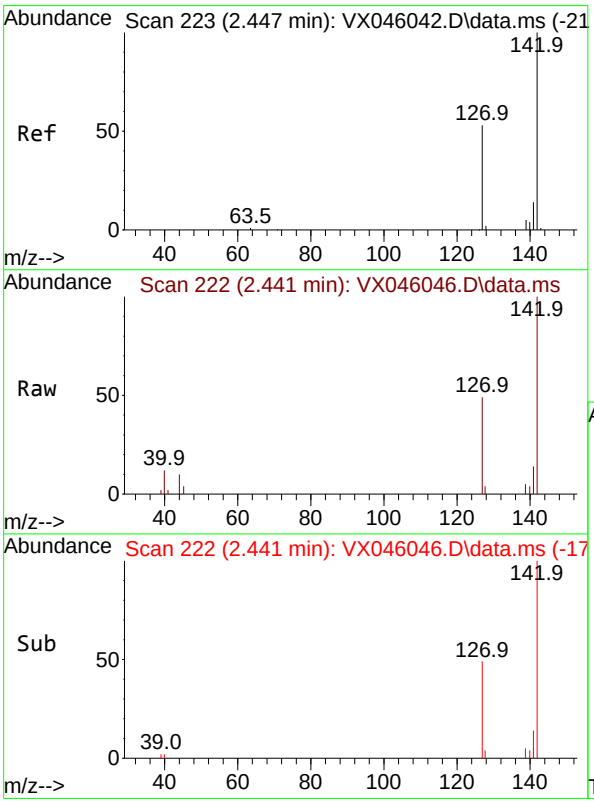
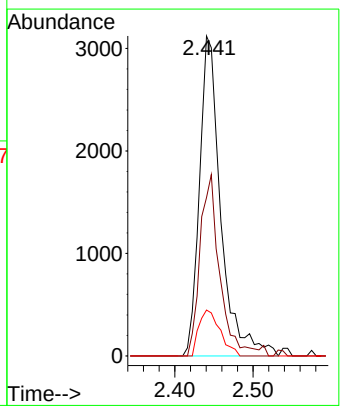
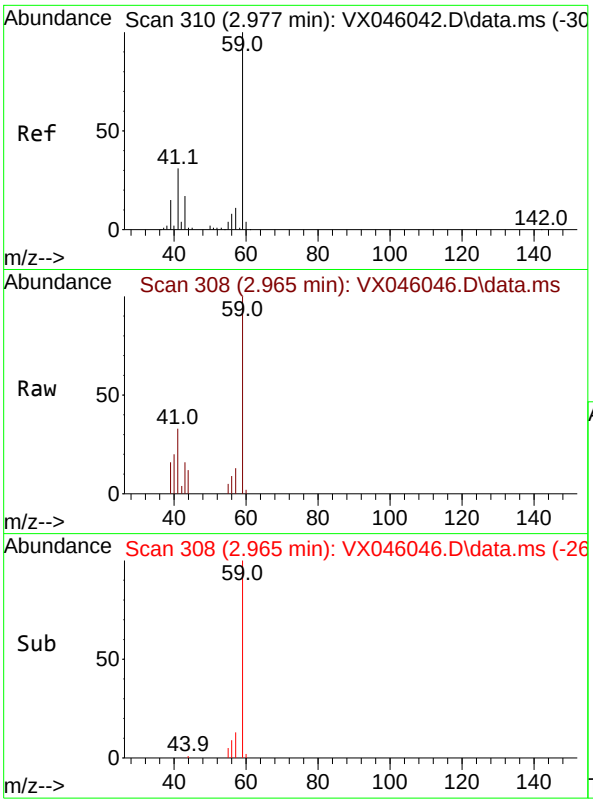


#10
Methyl Iodide
Concen: 2.990 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.006 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion:142 Resp: 5900

Ion	Ratio	Lower	Upper
142	100		
127	52.8	41.7	62.5
141	14.3	11.5	17.3

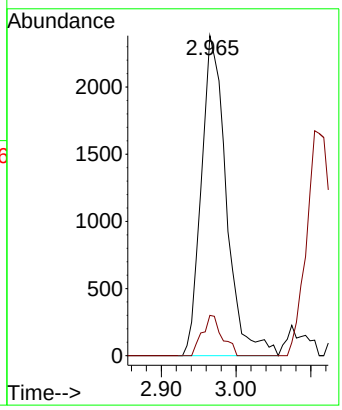




#11
Tert butyl alcohol
Concen: 16.111 ug/l
RT: 2.965 min Scan# 3
Delta R.T. -0.012 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 59 Resp: 553

Ion	Ratio	Lower	Upper
59	100		
57	10.0	8.6	12.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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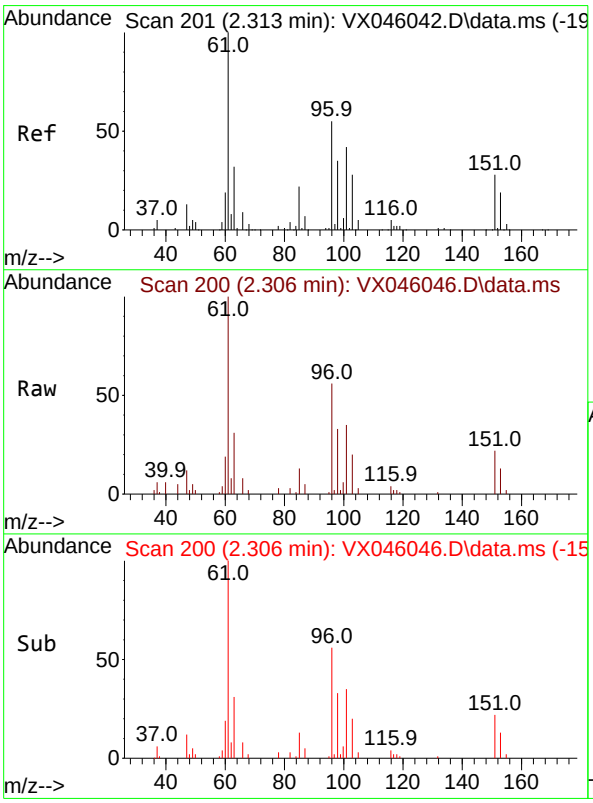
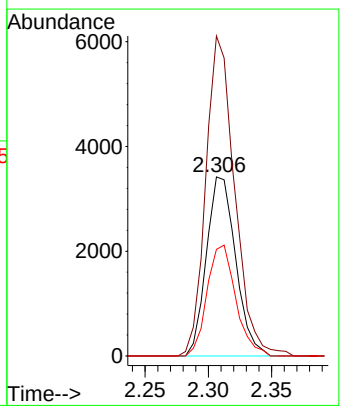
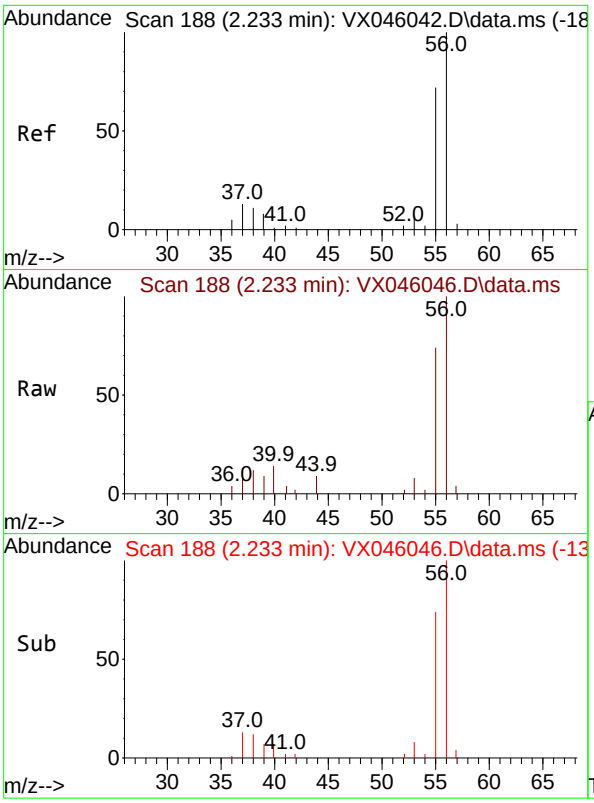


#12
1,1-Dichloroethene
Concen: 3.359 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.006 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 96 Resp: 5496

Ion	Ratio	Lower	Upper
96	100		
61	178.7	146.2	219.2
98	59.5	51.0	76.6

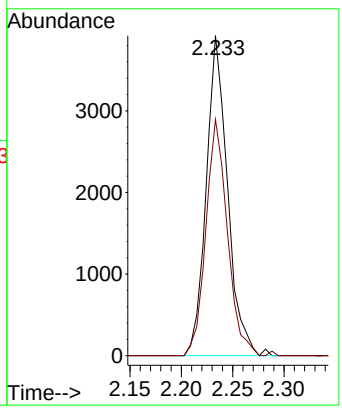




#13
Acrolein
Concen: 14.206 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 56 Resp: 567

Ion	Ratio	Lower	Upper
56	100		
55	74.5	56.2	84.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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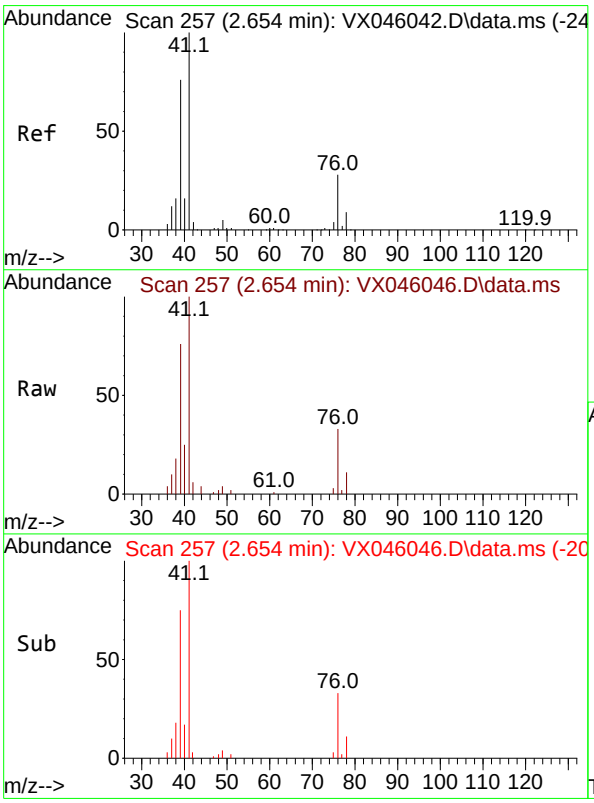
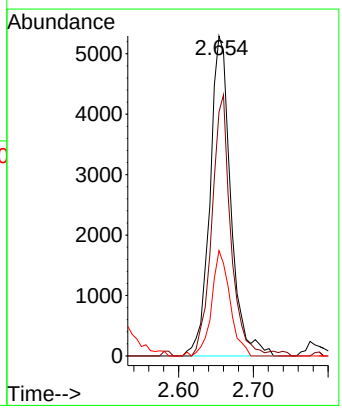
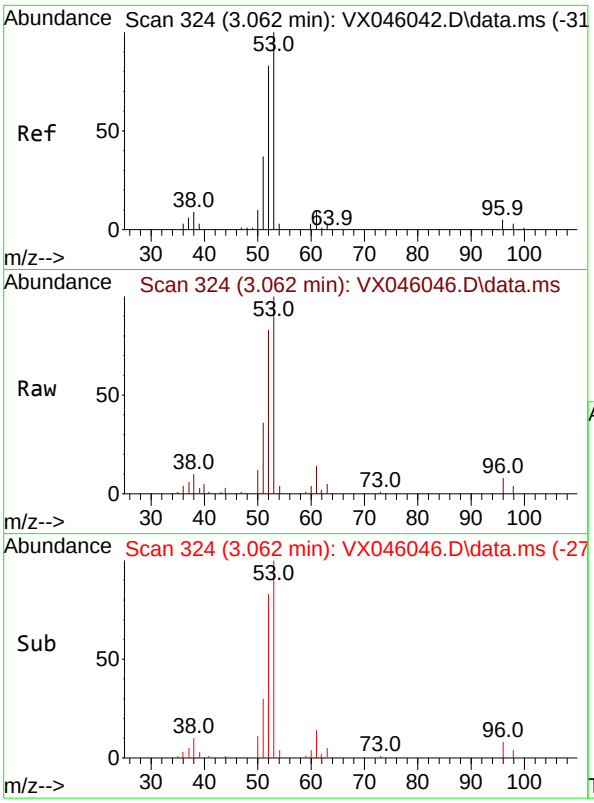


#14
Allyl chloride
Concen: 3.319 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 41 Resp: 10262

Ion	Ratio	Lower	Upper
41	100		
39	74.1	60.6	90.8
76	29.1	24.9	37.3

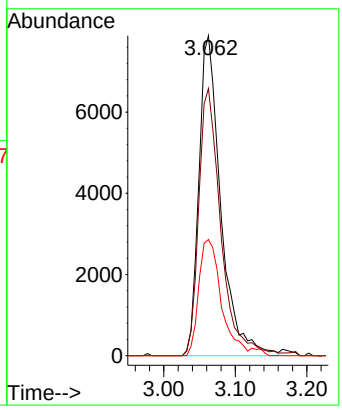




#15
Acrylonitrile
Concen: 16.282 ug/l
RT: 3.062 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 53 Resp: 1674

Ion	Ratio	Lower	Upper
53	100		
52	84.3	65.3	97.9
51	38.5	29.8	44.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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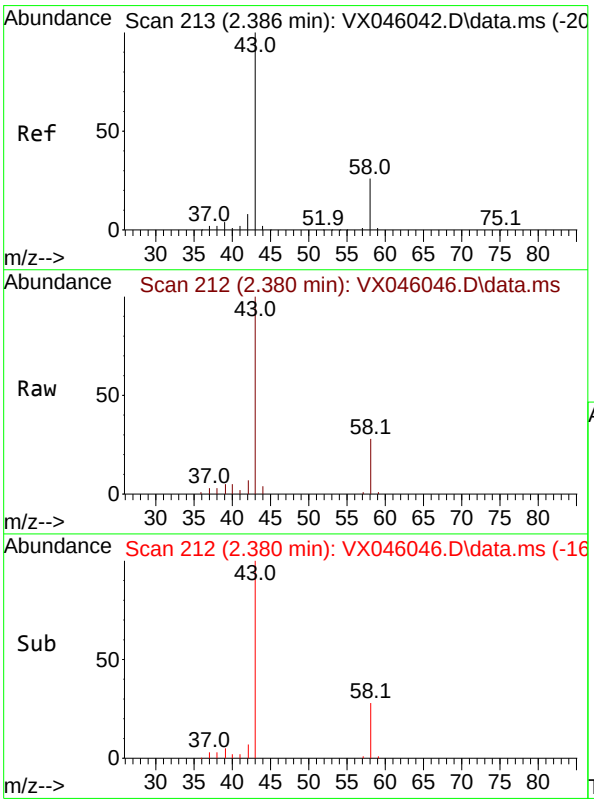
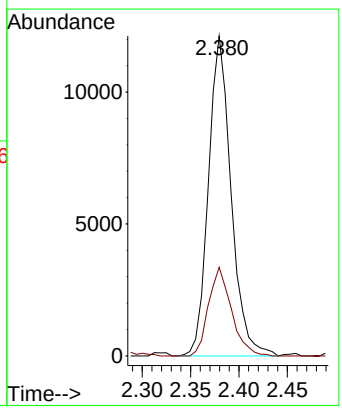
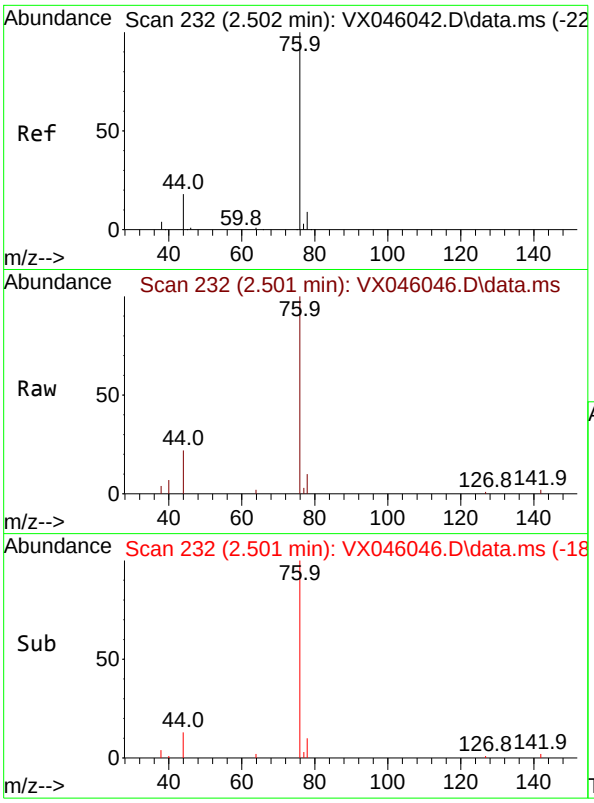


#16
Acetone
Concen: 20.036 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 43 Resp: 19773

Ion	Ratio	Lower	Upper
43	100		
58	27.7	21.2	31.8

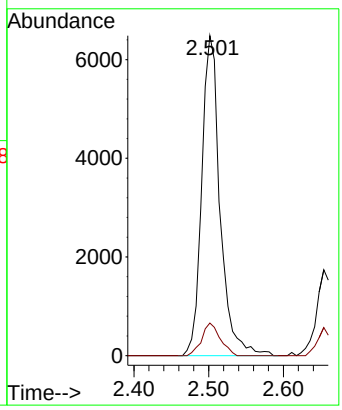




#17
Carbon Disulfide
Concen: 2.919 ug/l
RT: 2.501 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 76 Resp: 1106

Ion	Ratio	Lower	Upper
76	100		
78	10.2	7.0	10.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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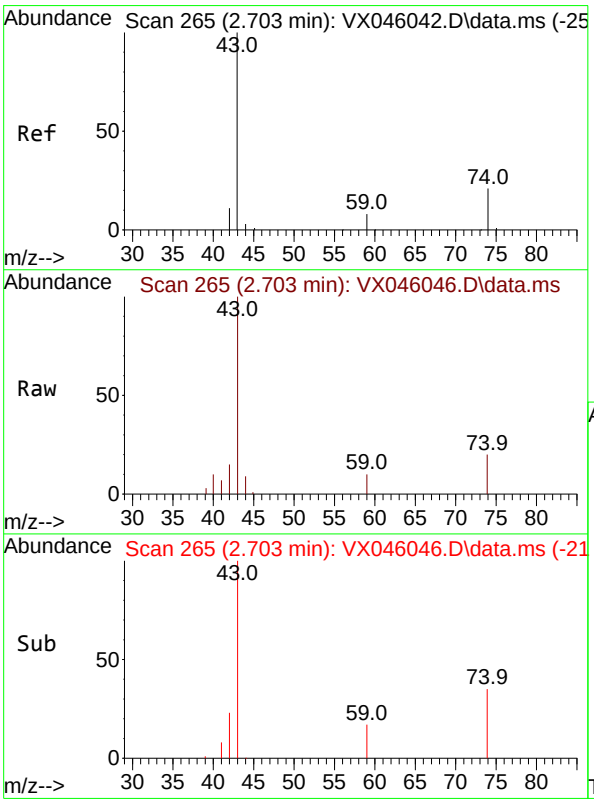
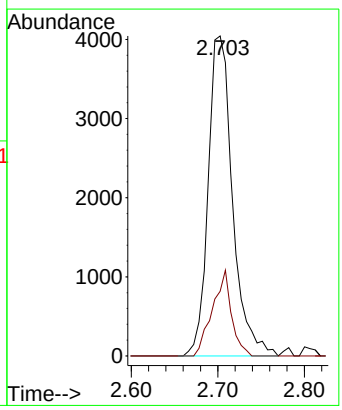
Supervised By :Mahesh Dadoda 05/06/2025

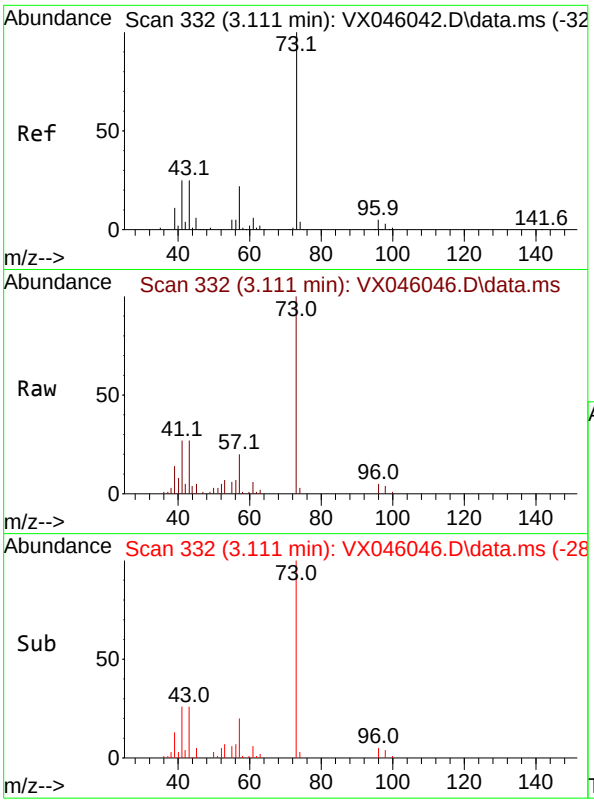


#18
Methyl Acetate
Concen: 3.357 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 43 Resp: 7909

Ion	Ratio	Lower	Upper
43	100		
74	20.9	16.7	25.1

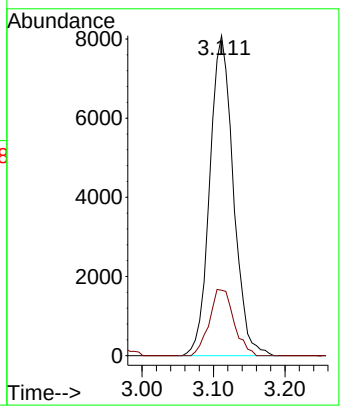




#19
Methyl tert-butyl Ether
Concen: 3.241 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 73 Resp: 1849

Ion	Ratio	Lower	Upper
73	100		
57	20.5	17.7	26.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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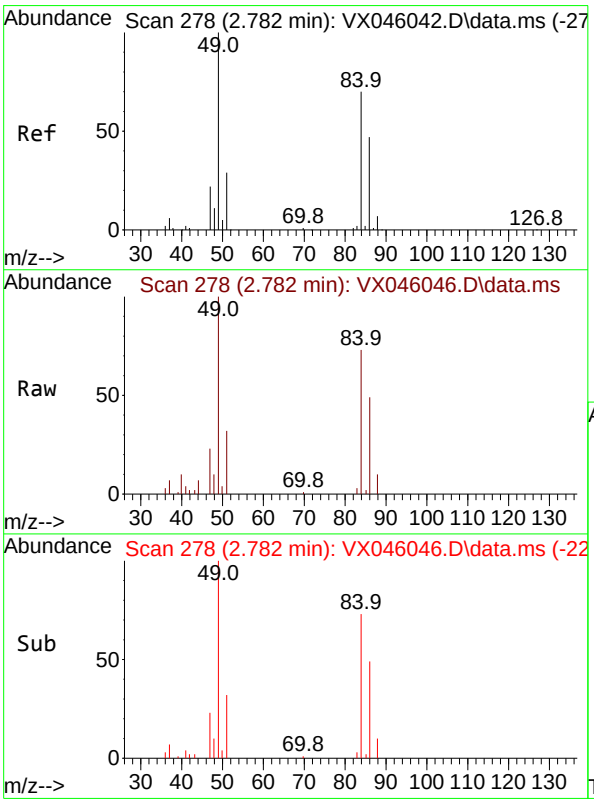
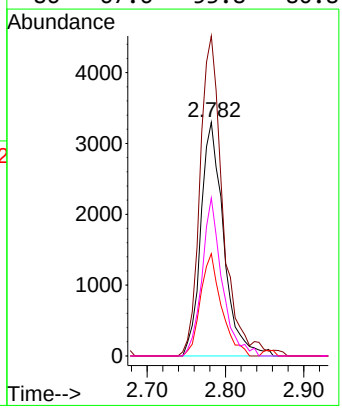
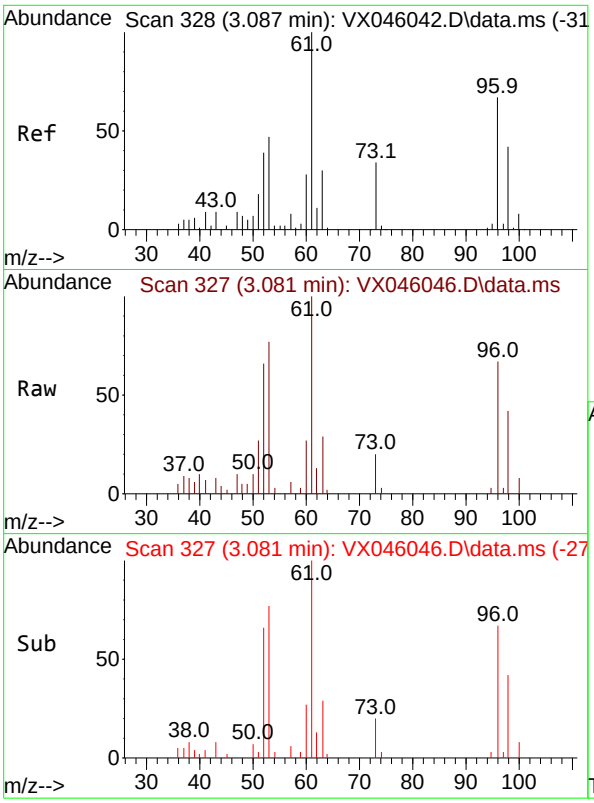


#20
Methylene Chloride
Concen: 3.341 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 84 Resp: 6680

Ion	Ratio	Lower	Upper
84	100		
49	137.0	113.9	170.9
51	43.8	33.5	50.3
86	67.6	53.8	80.8

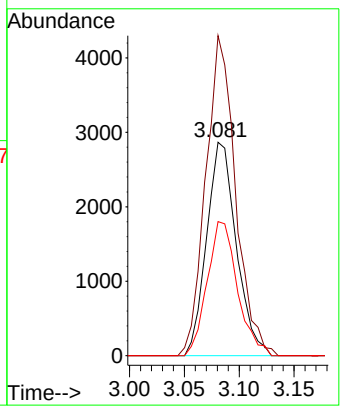




#21
trans-1,2-Dichloroethene
Concen: 3.234 ug/l
RT: 3.081 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 96 Resp: 540

Ion	Ratio	Lower	Upper
96	100		
61	149.9	119.5	179.3
98	62.9	50.0	75.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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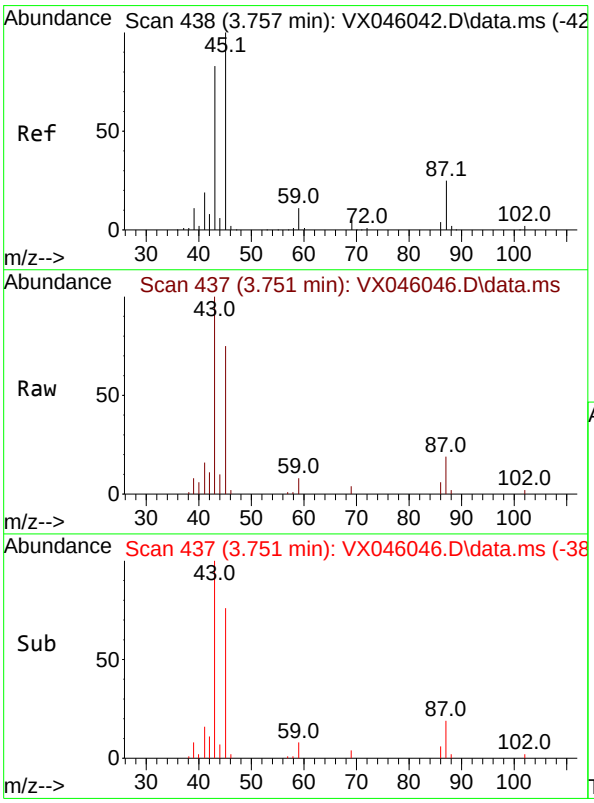
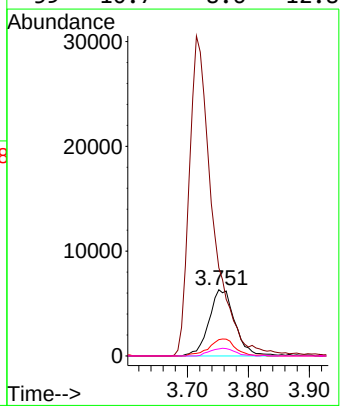
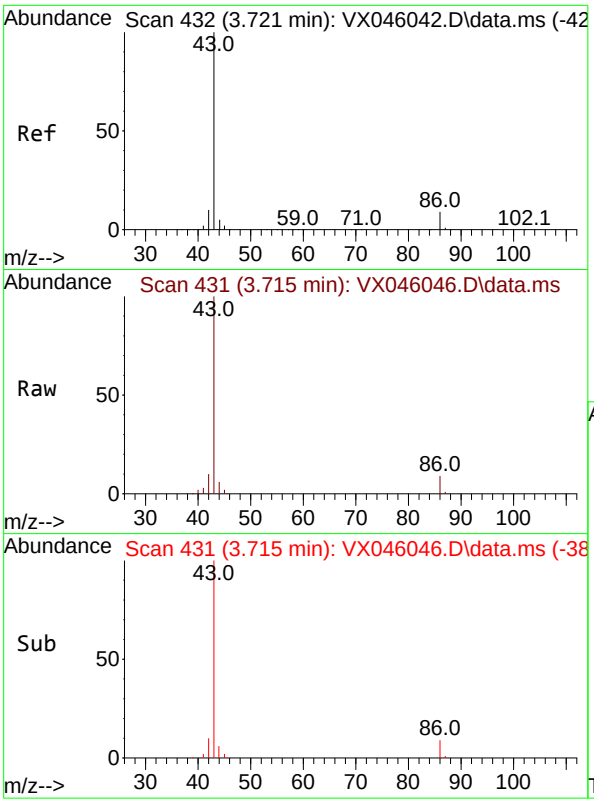


#22
Diisopropyl ether
Concen: 3.230 ug/l
RT: 3.751 min Scan# 437
Delta R.T. -0.006 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 45 Resp: 18657

Ion	Ratio	Lower	Upper
45	100		
43	128.0	66.6	100.0#
87	24.7	19.8	29.6
59	10.7	8.6	12.8





#23
Vinyl Acetate
Concen: 16.127 ug/l
RT: 3.715 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 43 Resp: 8232

Ion	Ratio	Lower	Upper
43	100		
86	9.1	7.5	11.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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Reviewed By :John Carlone 05/06/2025
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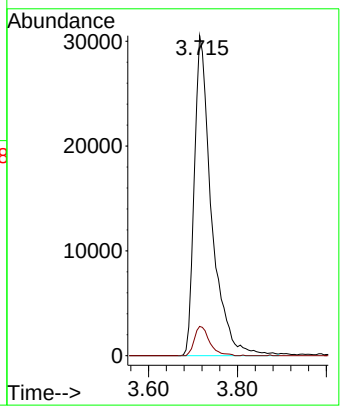
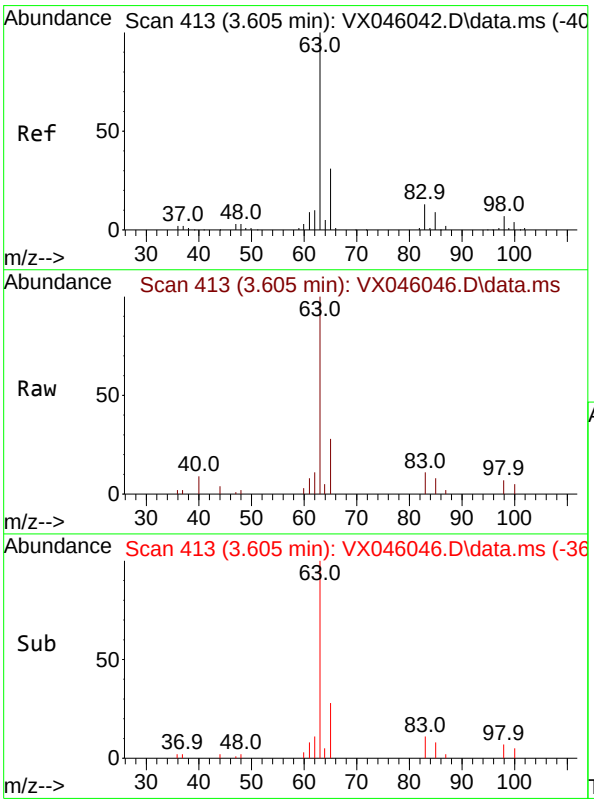
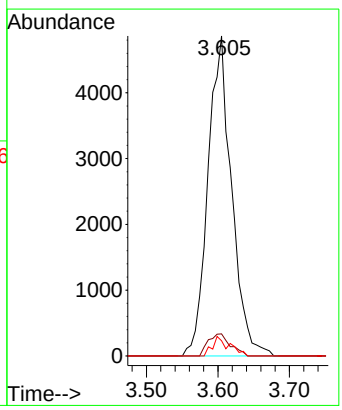


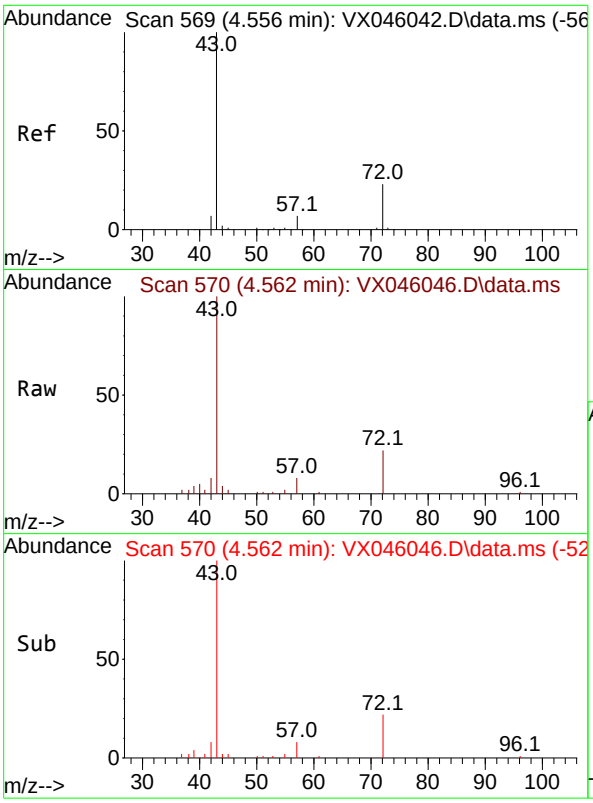


#24
1,1-Dichloroethane
Concen: 3.297 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 63 Resp: 11193

Ion	Ratio	Lower	Upper
63	100		
98	6.9	3.6	10.8
100	4.7	2.1	6.3





#25
2-Butanone
Concen: 18.340 ug/l
RT: 4.562 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

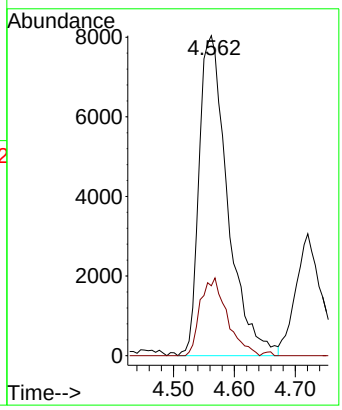
Tgt Ion: 43 Resp: 2612

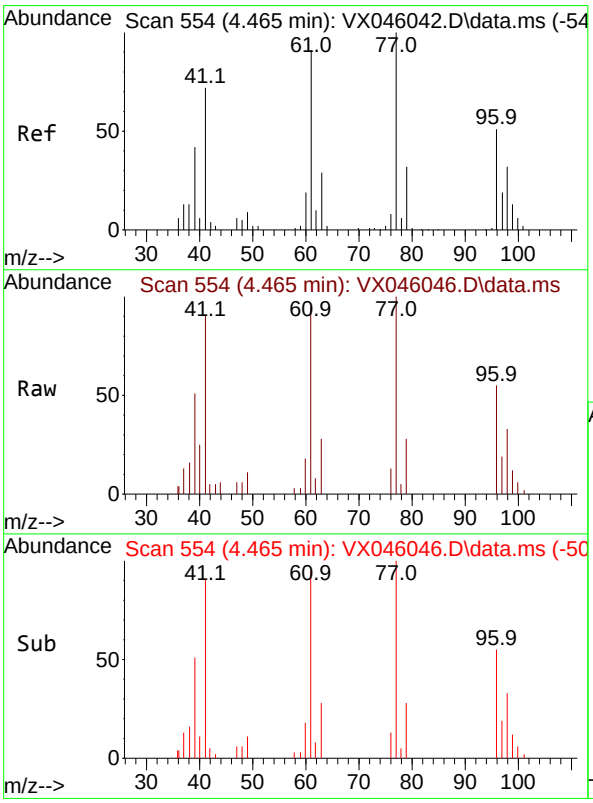
Ion	Ratio	Lower	Upper
43	100		
72	21.8	18.4	27.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

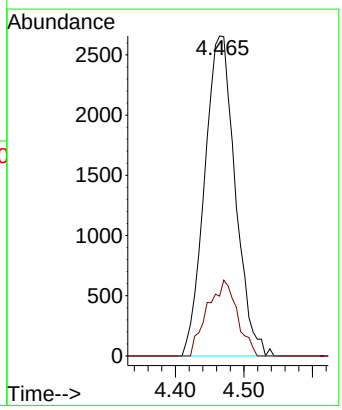


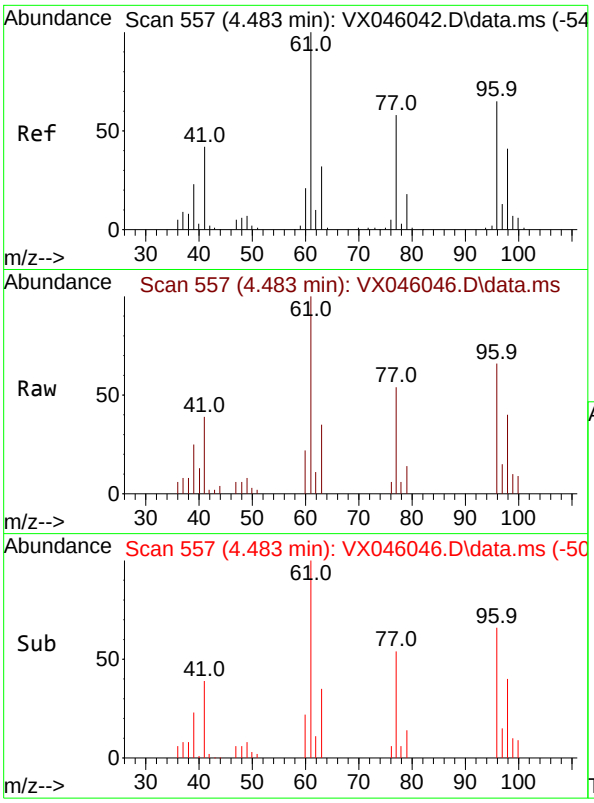


#26
2,2-Dichloropropane
Concen: 3.205 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 77 Resp: 8245

Ion	Ratio	Lower	Upper
77	100		
97	23.1	10.5	31.5

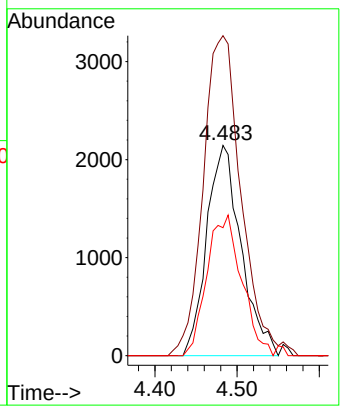




#27
cis-1,2-Dichloroethene
Concen: 3.089 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 96 Resp: 622

Ion	Ratio	Lower	Upper
96	100		
61	168.5	0.0	322.8
98	67.6	0.0	129.0



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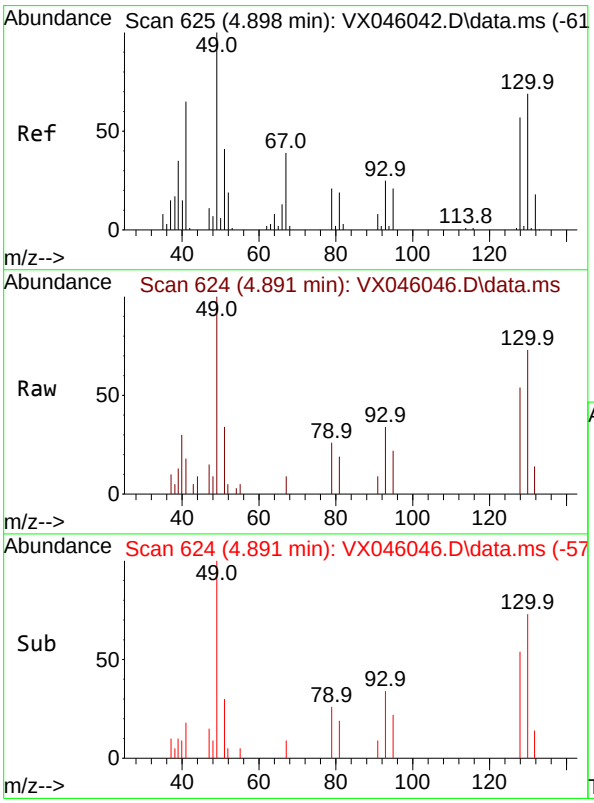
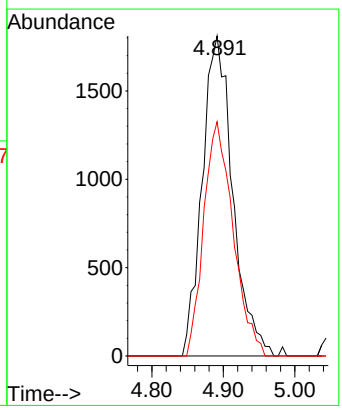
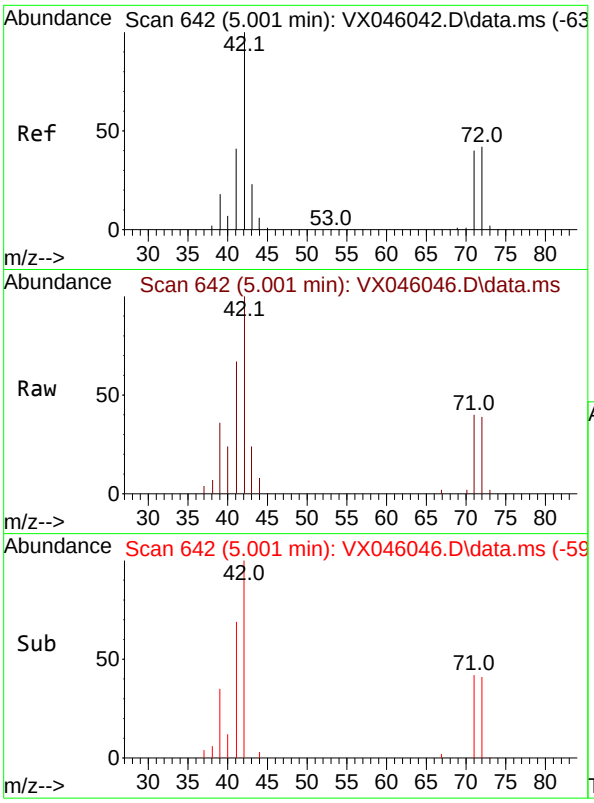


#28
Bromochloromethane
Concen: 2.969 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 49 Resp: 5360

Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.0
130	70.5	56.2	84.2





#29
Tetrahydrofuran
Concen: 16.680 ug/l
RT: 5.001 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 42 Resp: 1543

Ion	Ratio	Lower	Upper
42	100		
72	42.2	33.7	50.5
71	37.4	31.4	47.2

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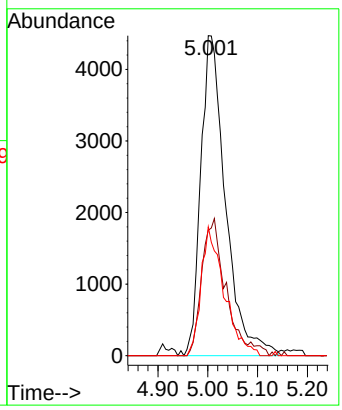
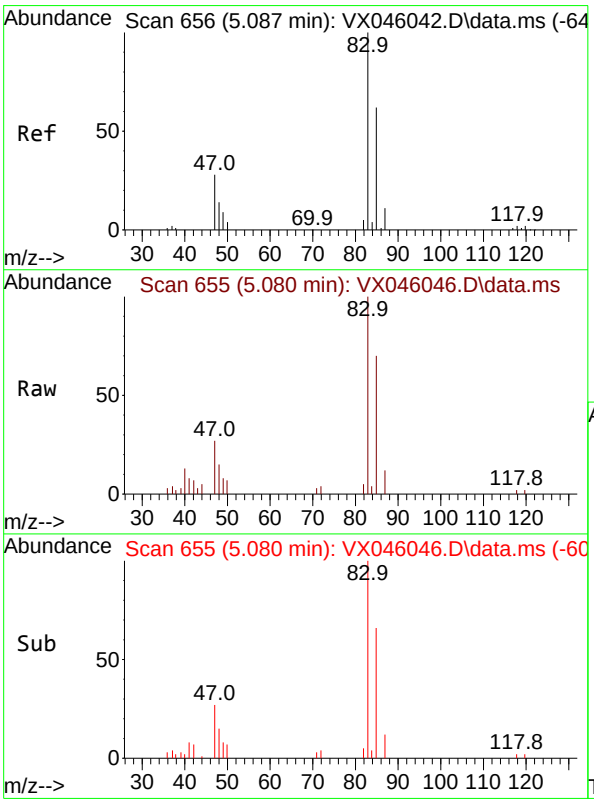
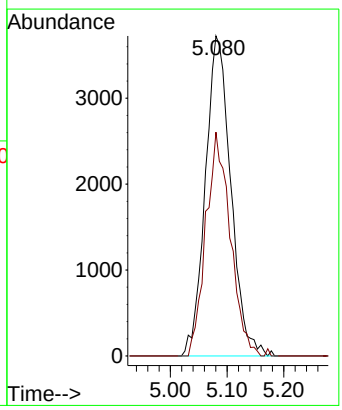


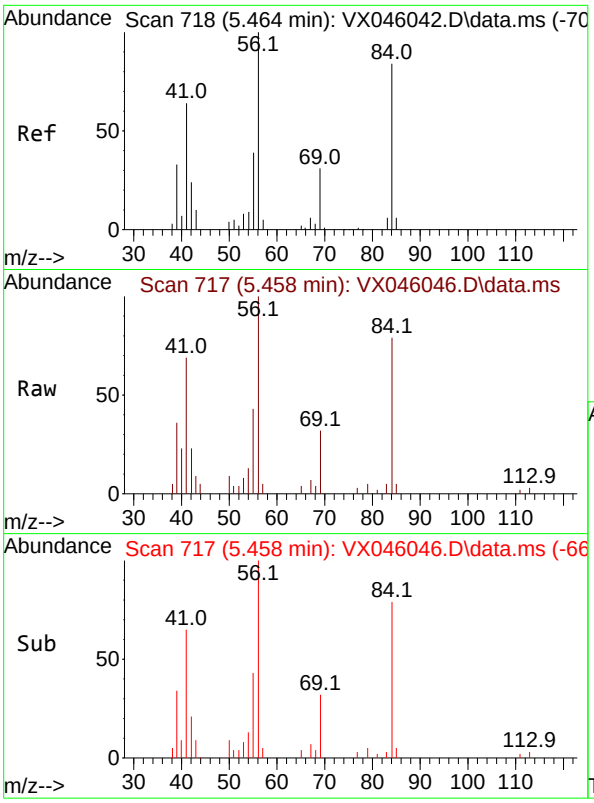


#30
Chloroform
Concen: 3.294 ug/l
RT: 5.080 min Scan# 655
Delta R.T. -0.006 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 83 Resp: 11624

Ion	Ratio	Lower	Upper
83	100		
85	69.9	49.3	73.9

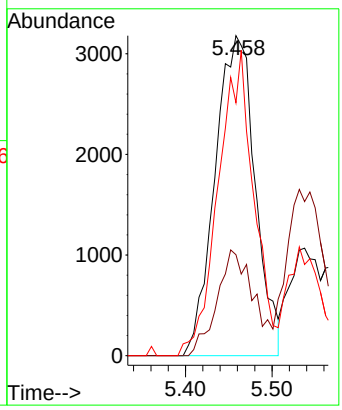




#31
Cyclohexane
Concen: 3.588 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 56 Resp: 1026

Ion	Ratio	Lower	Upper
56	100		
69	31.6	24.4	36.6
84	79.1	66.9	100.3



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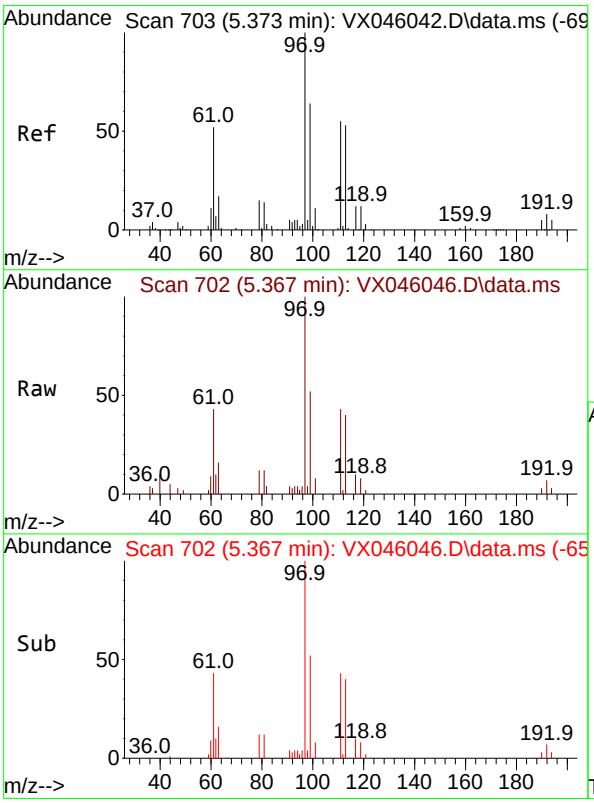
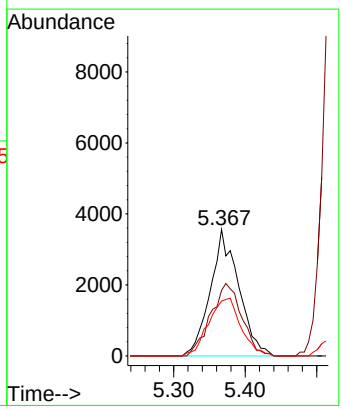
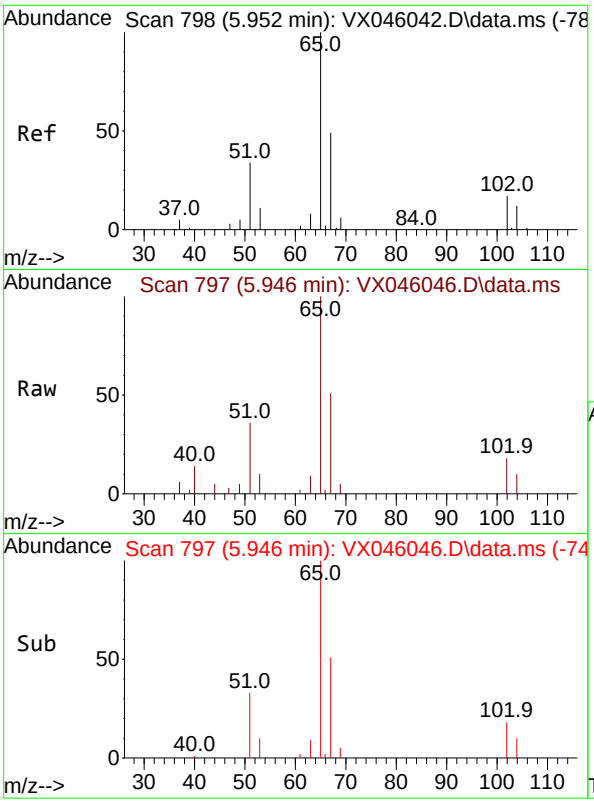


#32
1,1,1-Trichloroethane
Concen: 3.229 ug/l
RT: 5.367 min Scan# 702
Delta R.T. -0.006 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 97 Resp: 9827

Ion	Ratio	Lower	Upper
97	100		
99	62.6	51.8	77.6
61	51.8	40.1	60.1

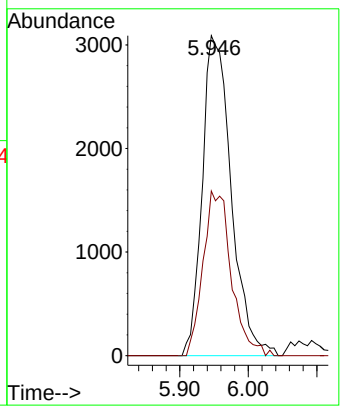




#33
1,2-Dichloroethane-d4
Concen: 3.143 ug/l
RT: 5.946 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 65 Resp: 906

Ion	Ratio	Lower	Upper
65	100		
67	50.1	0.0	99.0



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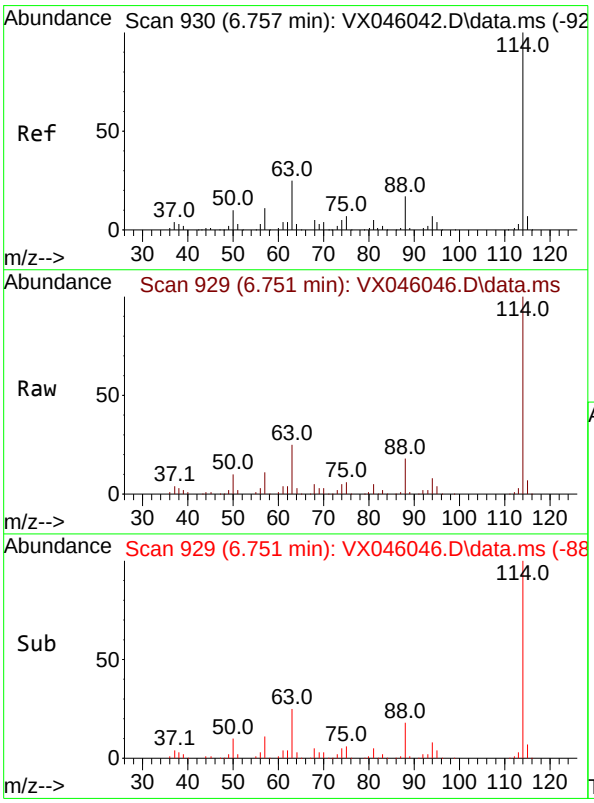
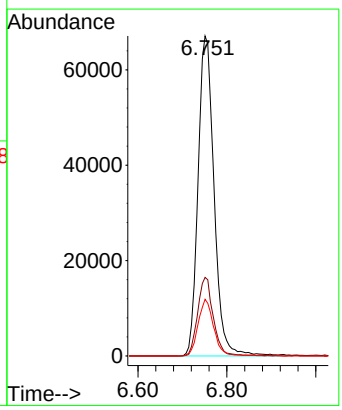
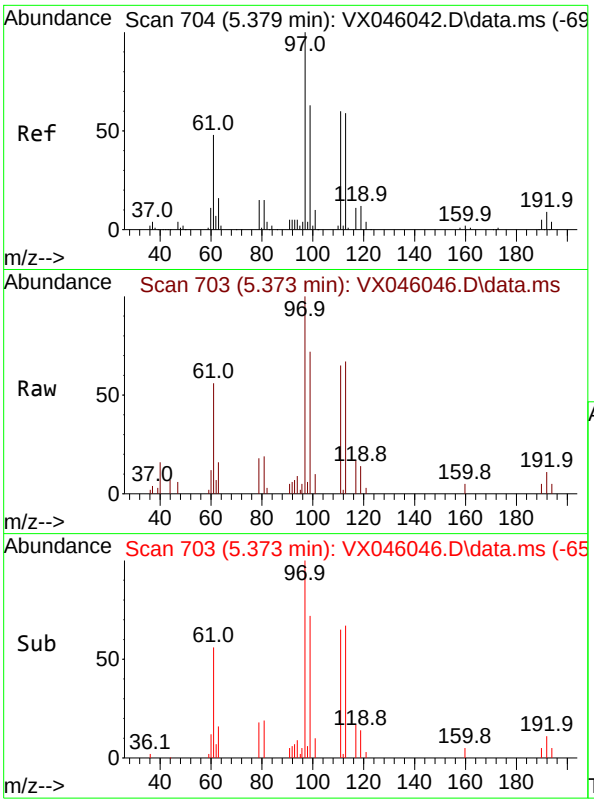


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. -0.006 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion:114 Resp: 168484

Ion	Ratio	Lower	Upper
114	100		
63	24.5	0.0	49.2
88	17.7	0.0	33.6

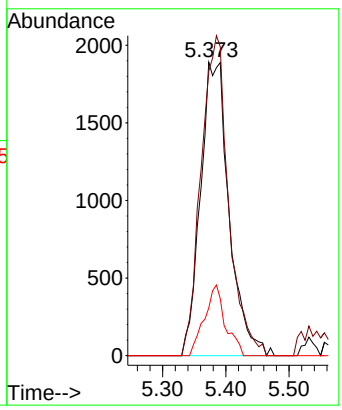




#35
Dibromofluoromethane
Concen: 3.161 ug/l
RT: 5.373 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion:113 Resp: 596

Ion	Ratio	Lower	Upper
113	100		
111	104.4	83.1	124.7
192	17.5	13.3	19.9



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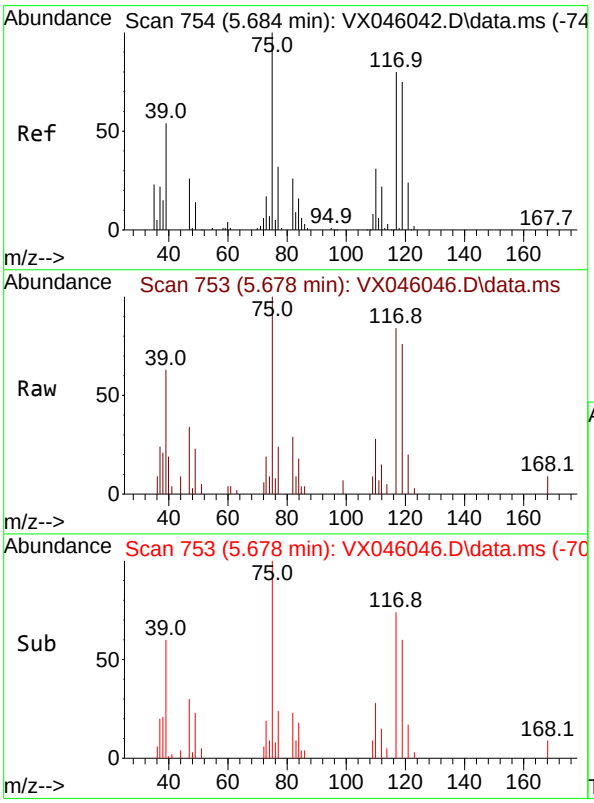
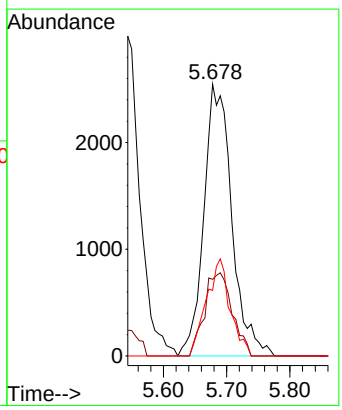
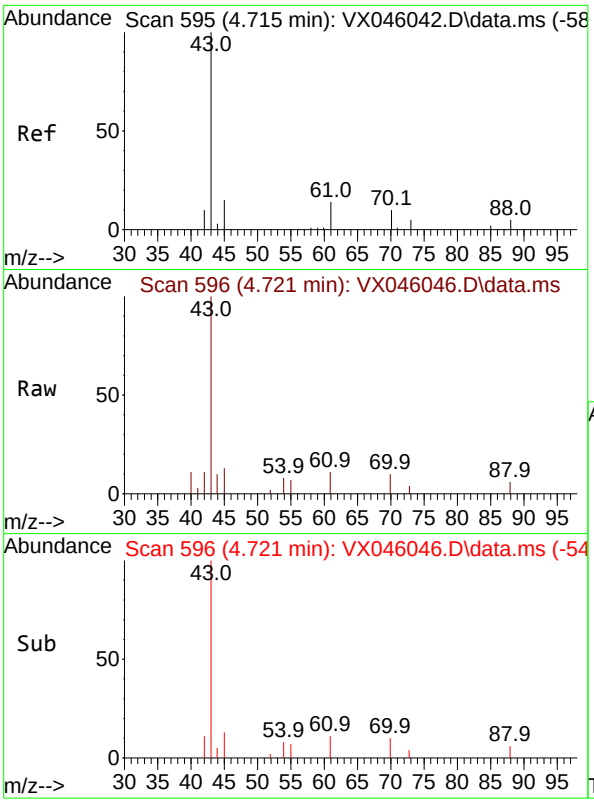


#36
1,1-Dichloropropene
Concen: 3.551 ug/l
RT: 5.678 min Scan# 753
Delta R.T. -0.006 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 75 Resp: 7787

Ion	Ratio	Lower	Upper
75	100		
110	30.6	16.3	48.9
77	30.5	24.3	36.5

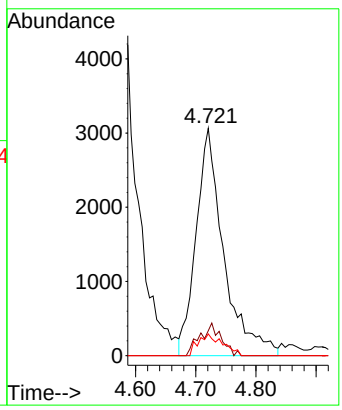




#37
Ethyl Acetate
Concen: 3.565 ug/l m
RT: 4.721 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 43 Resp: 980

Ion	Ratio	Lower	Upper
43	100		
61	11.0	10.3	15.5
70	8.4	7.9	11.9



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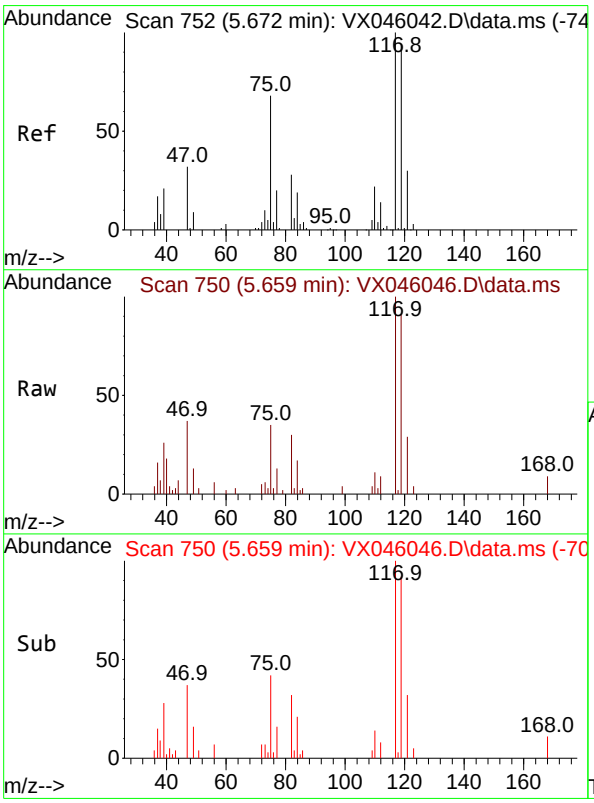
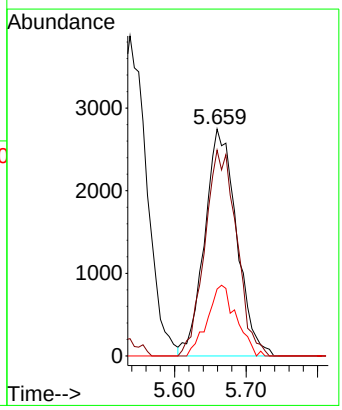
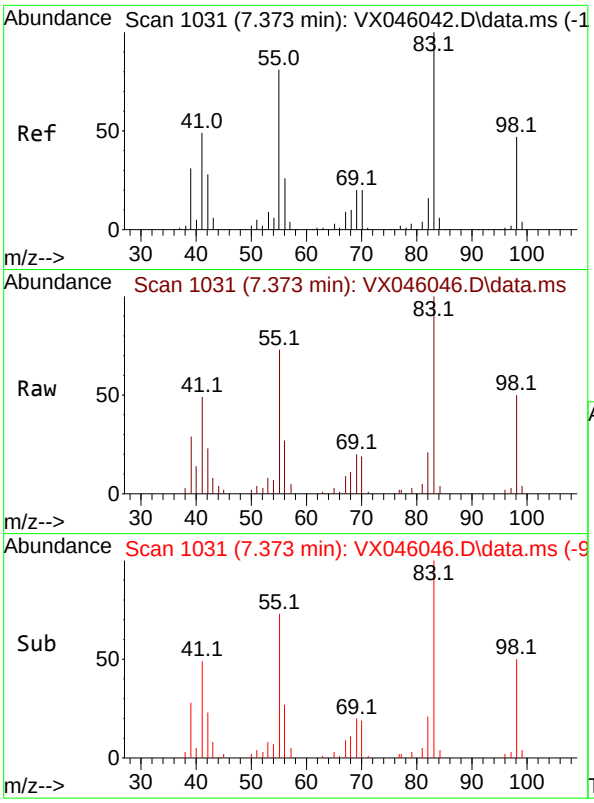


#38
Carbon Tetrachloride
Concen: 3.376 ug/l
RT: 5.659 min Scan# 750
Delta R.T. -0.012 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion:117 Resp: 8505

Ion	Ratio	Lower	Upper
117	100		
119	90.6	75.2	112.8
121	29.5	24.2	36.4

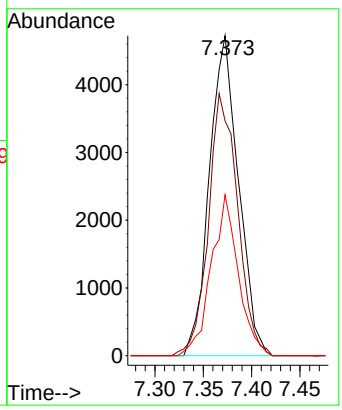




#39
Methylcyclohexane
Concen: 3.597 ug/l
RT: 7.373 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 83 Resp: 988

Ion	Ratio	Lower	Upper
83	100		
55	73.3	64.7	97.1
98	50.3	37.4	56.2



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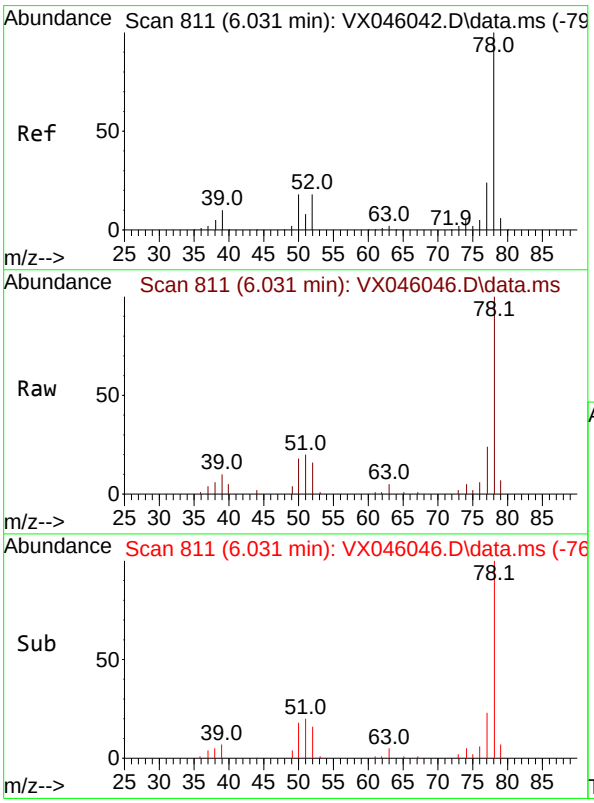
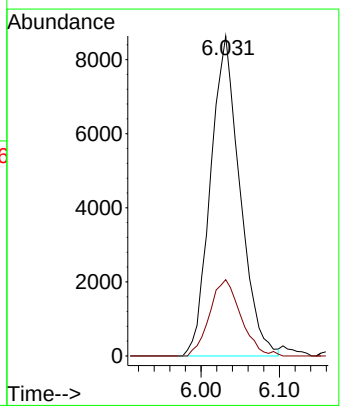
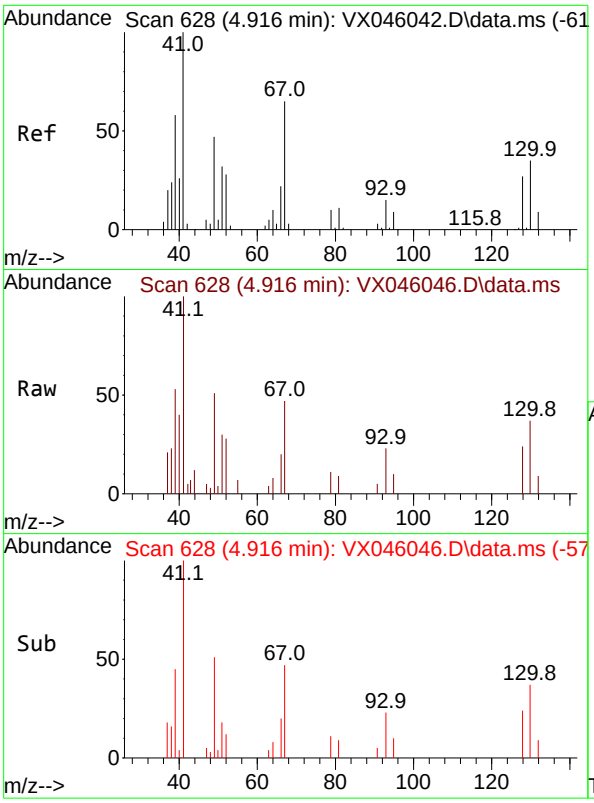


#40
Benzene
Concen: 3.315 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 78 Resp: 22528

Ion	Ratio	Lower	Upper
78	100		
77	23.9	19.0	28.4

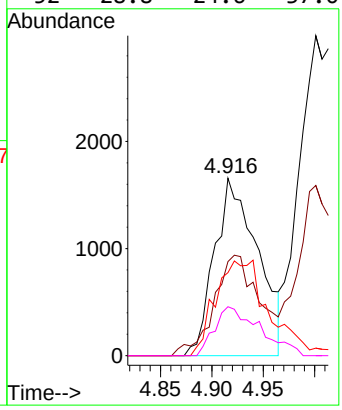




#41
Methacrylonitrile
Concen: 3.174 ug/l
RT: 4.916 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 41 Resp: 485

Ion	Ratio	Lower	Upper
41	100		
39	59.7	47.2	70.8
67	0.0	50.7	76.1#
52	28.8	24.6	37.0



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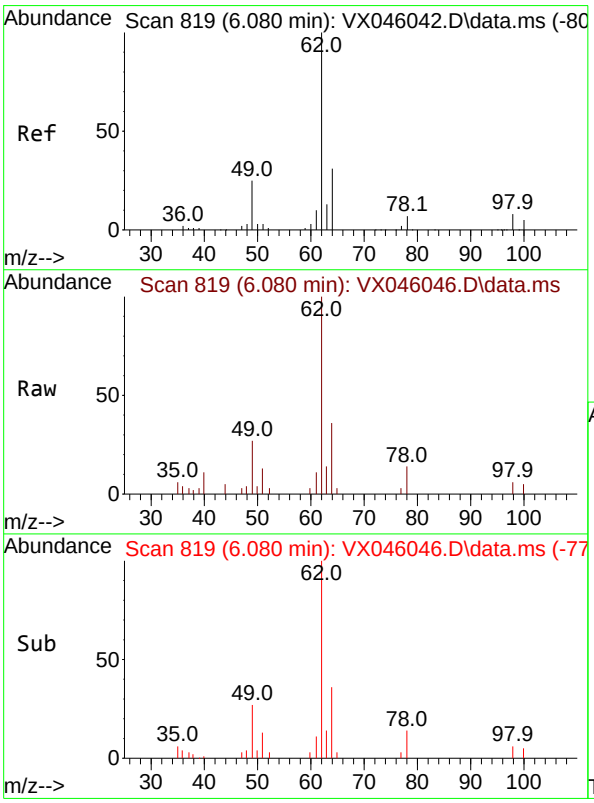
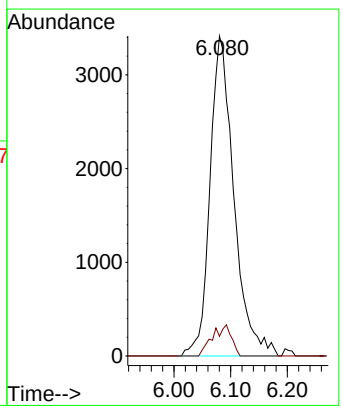
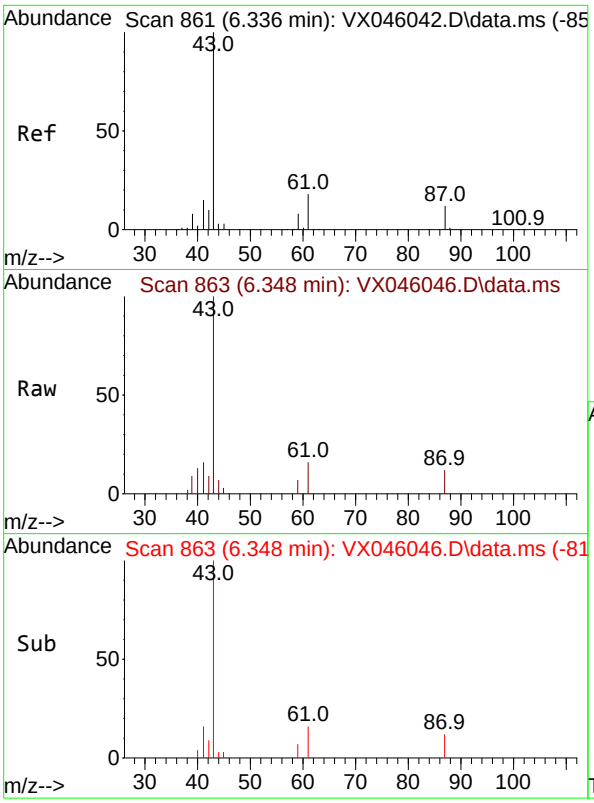


#42
1,2-Dichloroethane
Concen: 3.563 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 62 Resp: 10011

Ion	Ratio	Lower	Upper
62	100		
98	7.8	0.0	15.2

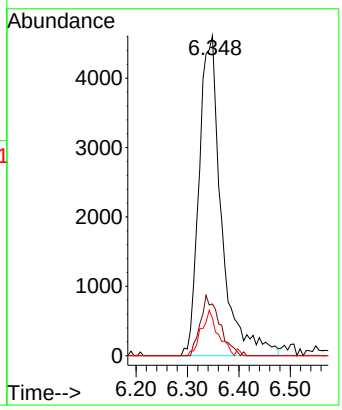




#43
Isopropyl Acetate
Concen: 3.309 ug/l
RT: 6.348 min Scan# 8
Delta R.T. 0.012 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 43 Resp: 1391

Ion	Ratio	Lower	Upper
43	100		
61	16.2	14.3	21.5
87	10.6	9.5	14.3



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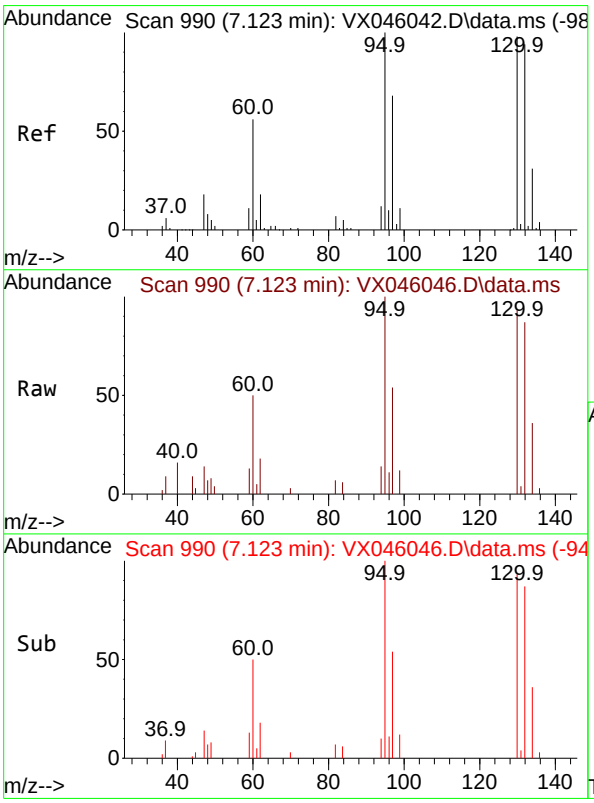
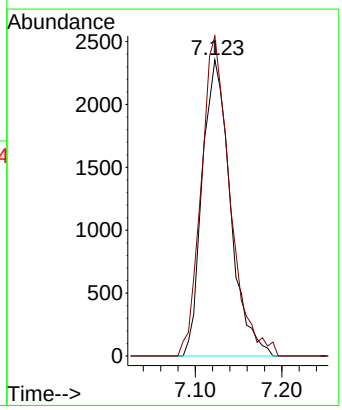
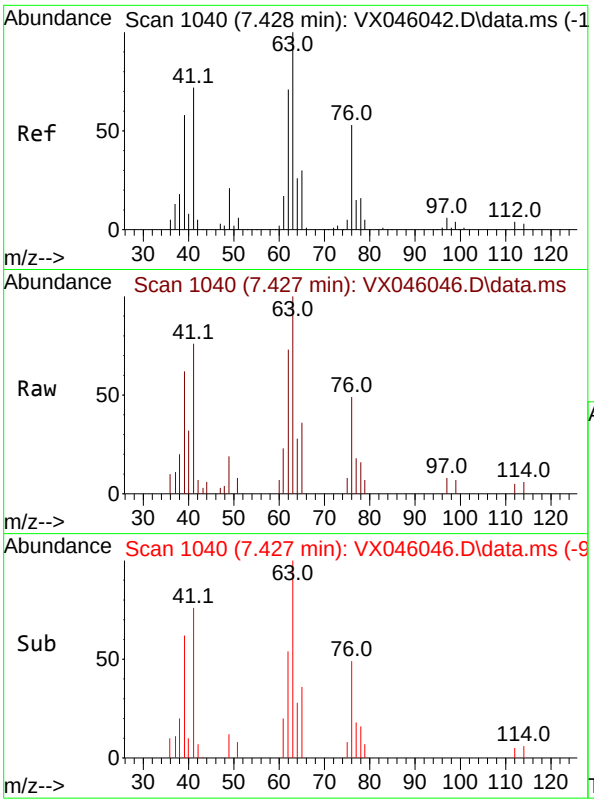


#44
Trichloroethene
Concen: 3.307 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion:130 Resp: 5313

Ion	Ratio	Lower	Upper
130	100		
95	108.1	0.0	204.2





#45
1,2-Dichloropropane
Concen: 3.228 ug/l
RT: 7.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 63 Resp: 545

Ion	Ratio	Lower	Upper
63	100		
65	36.2	24.1	36.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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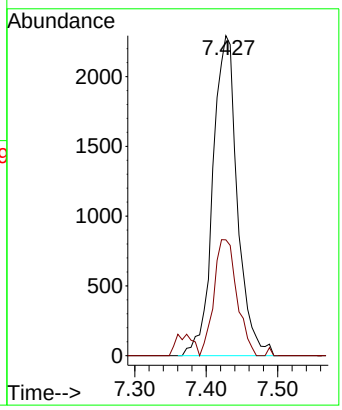
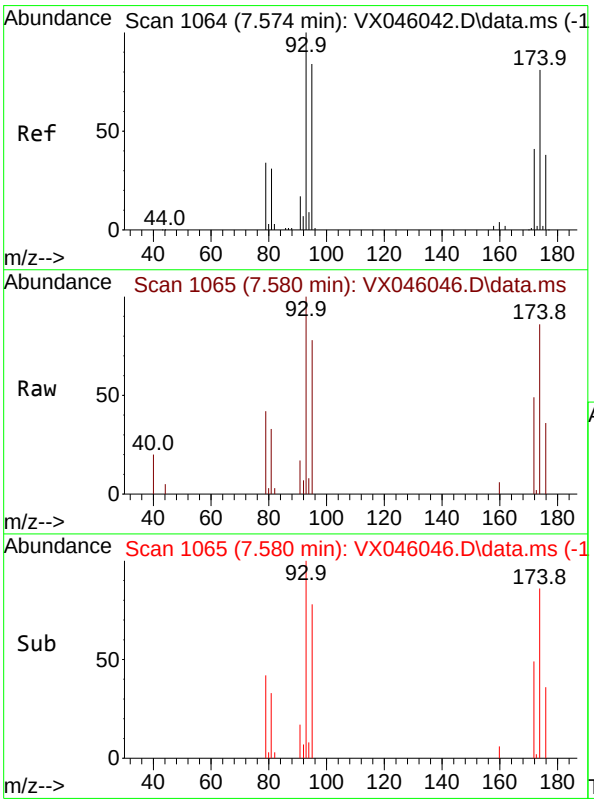
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

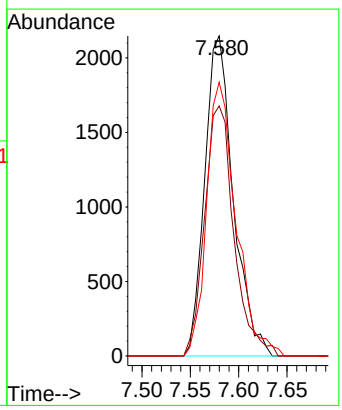


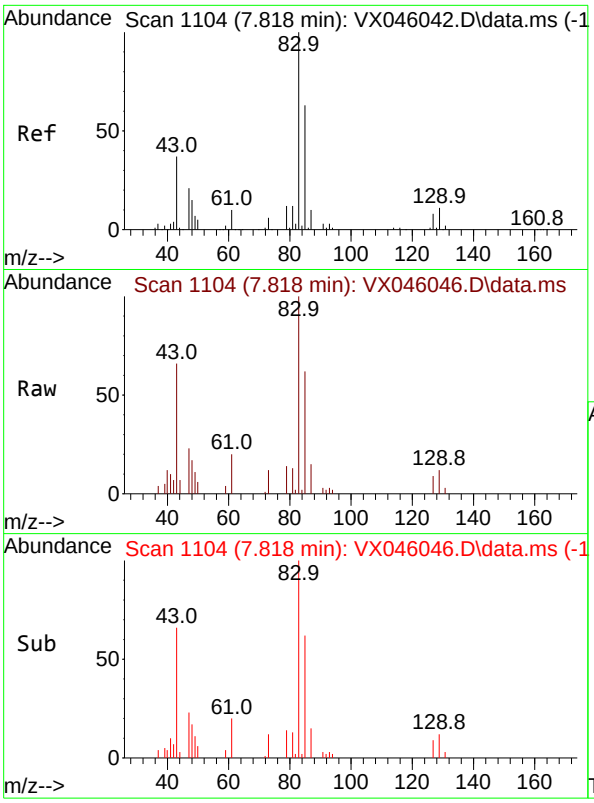


#46
Dibromomethane
Concen: 3.318 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. 0.006 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 93 Resp: 4417

Ion	Ratio	Lower	Upper
93	100		
95	80.1	65.6	98.4
174	87.6	68.2	102.2

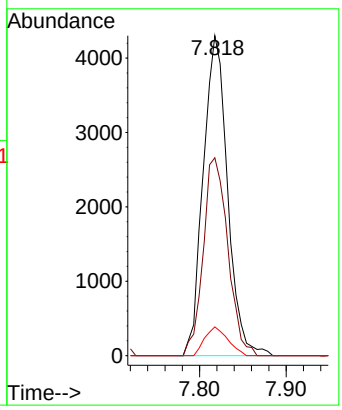




#47
Bromodichloromethane
Concen: 3.254 ug/l
RT: 7.818 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 83 Resp: 839

Ion	Ratio	Lower	Upper
83	100		
85	61.9	50.5	75.7
127	9.0	6.5	9.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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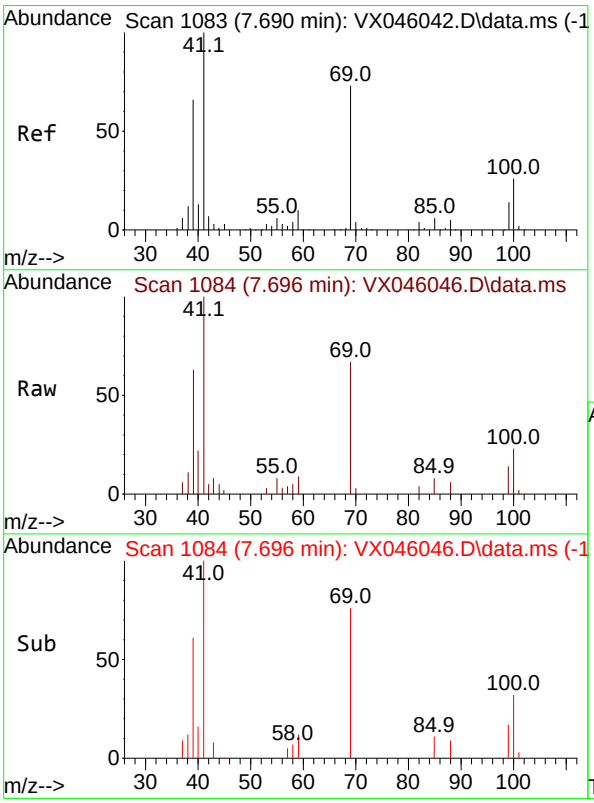
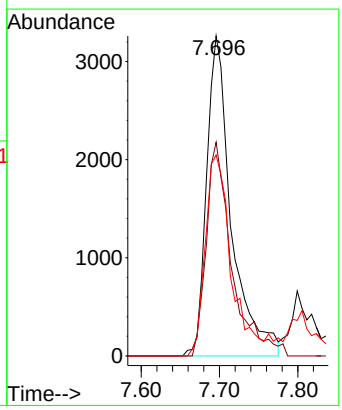
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

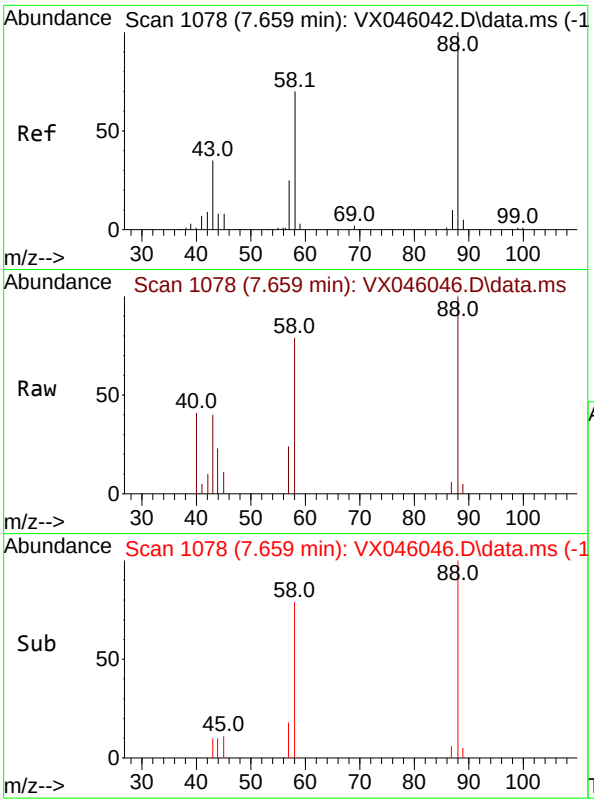


#48
Methyl methacrylate
Concen: 3.321 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. 0.006 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 41 Resp: 7171

Ion	Ratio	Lower	Upper
41	100		
69	68.4	58.5	87.7
39	65.1	51.7	77.5

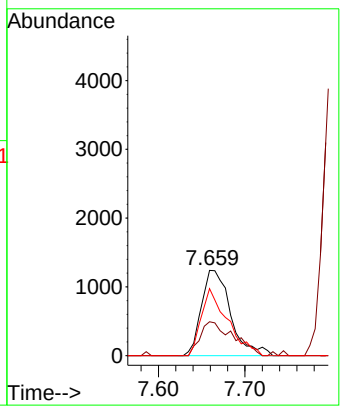




#49
1,4-Dioxane
Concen: 67.721 ug/l
RT: 7.659 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 88 Resp: 290

Ion	Ratio	Lower	Upper
88	100		
43	45.3	33.4	50.2
58	71.0	58.6	88.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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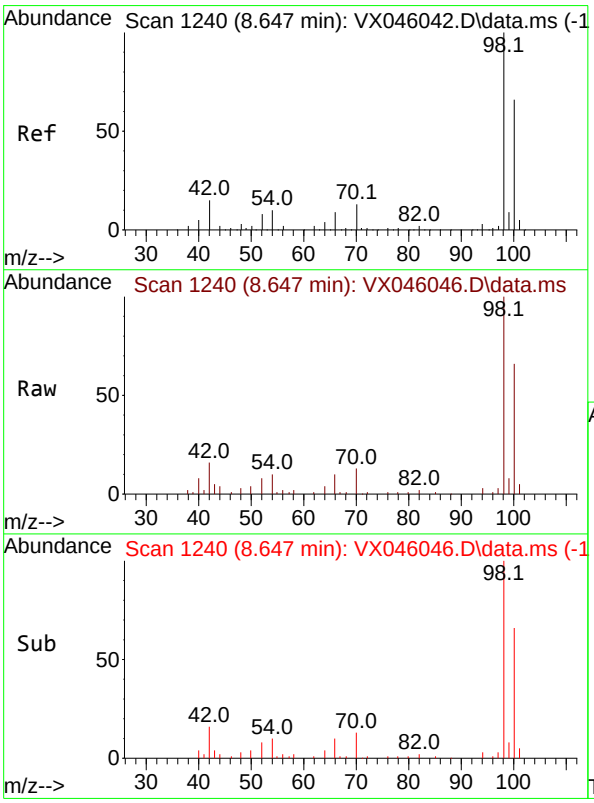
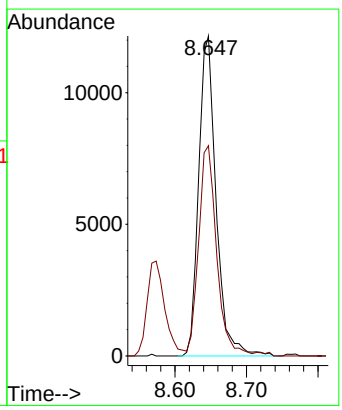
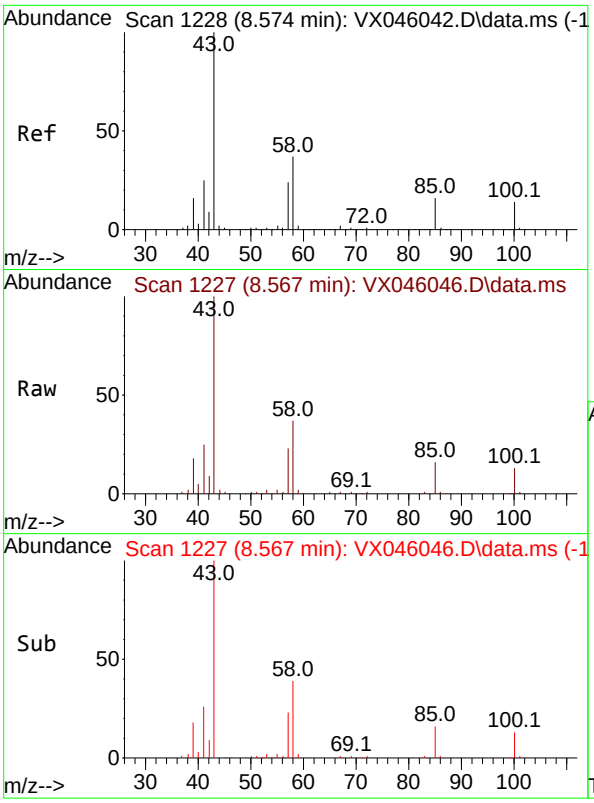


#50
Toluene-d8
Concen: 3.232 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 98 Resp: 20566

Ion	Ratio	Lower	Upper
98	100		
100	66.1	53.5	80.3

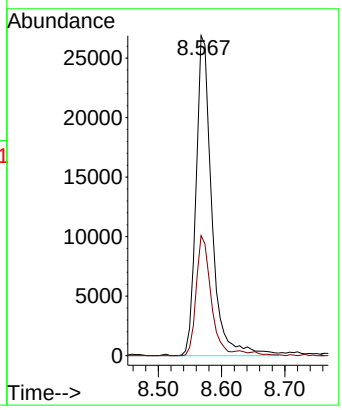




#51
4-Methyl-2-Pentanone
Concen: 16.967 ug/l
RT: 8.567 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 43 Resp: 4679

Ion	Ratio	Lower	Upper
43	100		
58	34.8	28.9	43.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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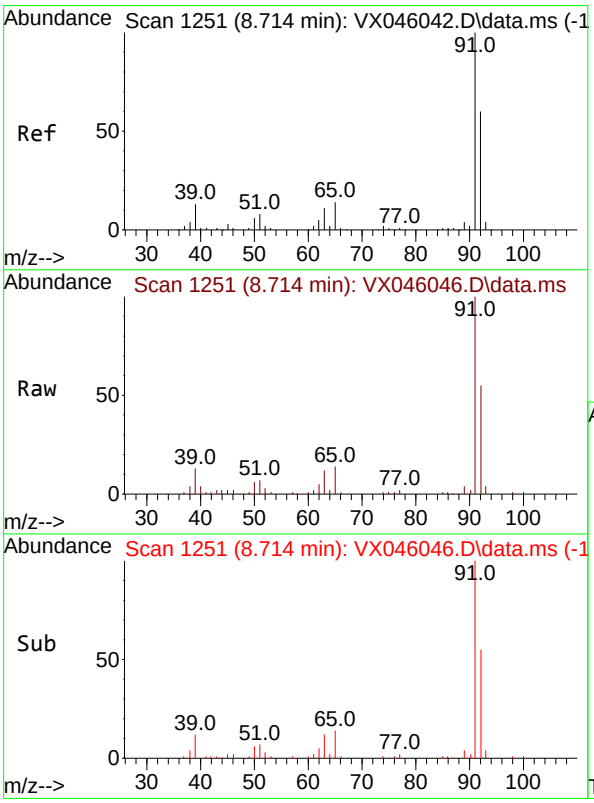
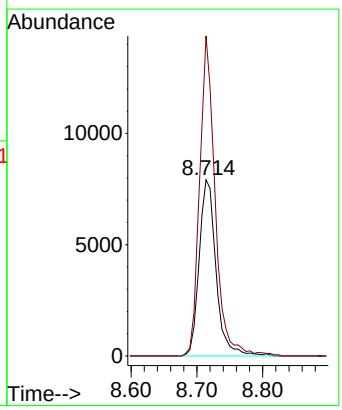
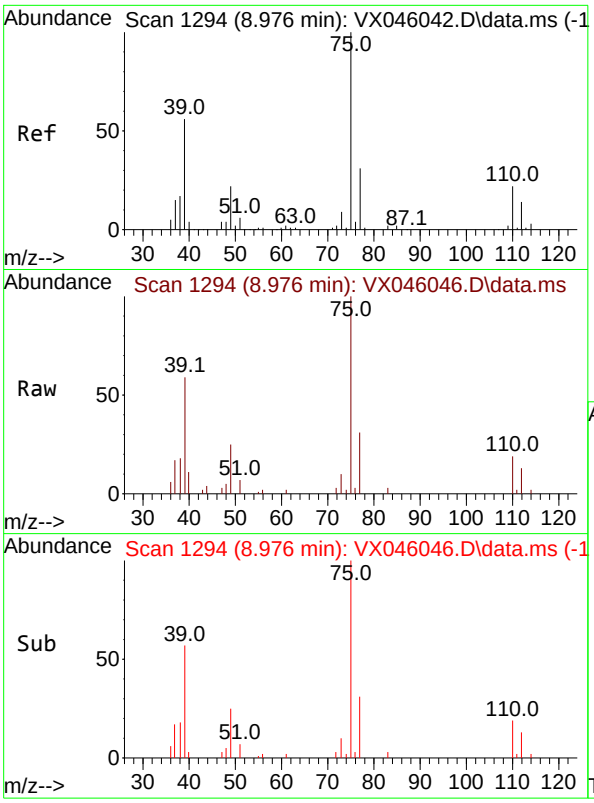


#52
Toluene
Concen: 3.505 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 92 Resp: 14126

Ion	Ratio	Lower	Upper
92	100		
91	167.2	136.6	205.0

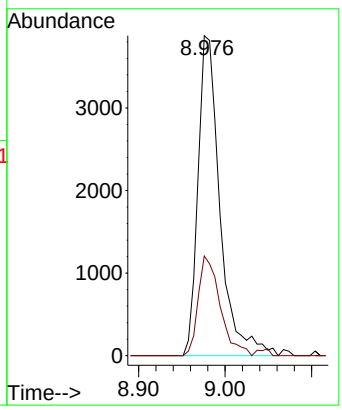




#53
t-1,3-Dichloropropene
Concen: 3.155 ug/l
RT: 8.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 75 Resp: 683

Ion	Ratio	Lower	Upper
75	100		
77	31.1	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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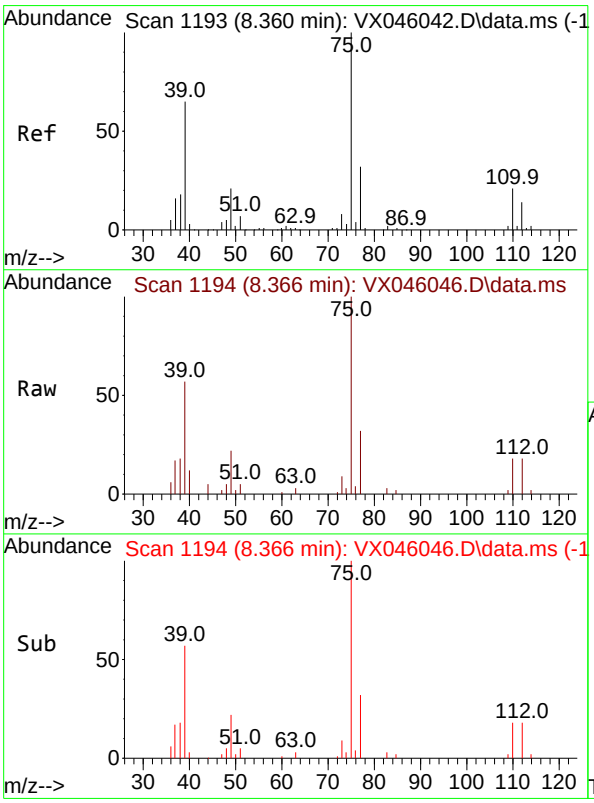
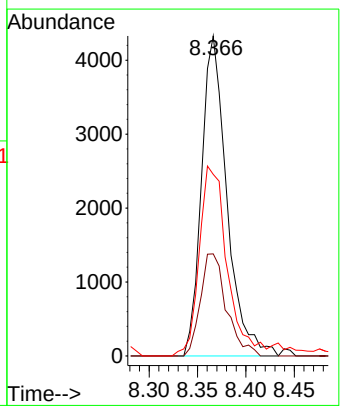
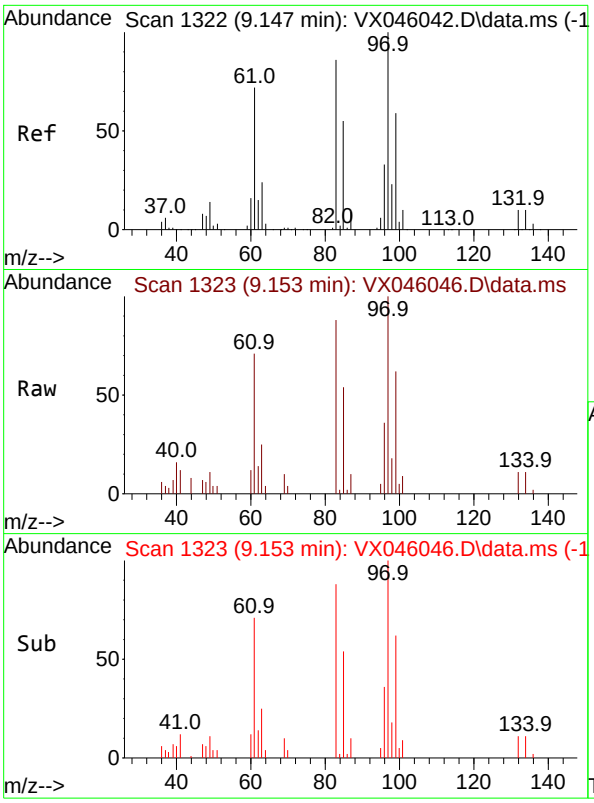


#54
cis-1,3-Dichloropropene
Concen: 3.129 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.006 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 75 Resp: 7908

Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.4	38.0
39	55.3	52.2	78.4

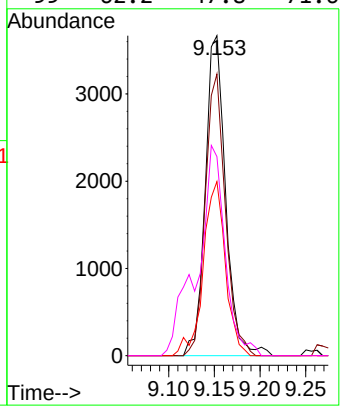




#55
1,1,2-Trichloroethane
Concen: 3.490 ug/l
RT: 9.153 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 97 Resp: 568

Ion	Ratio	Lower	Upper
97	100		
83	88.0	69.0	103.6
85	54.4	44.3	66.5
99	62.2	47.8	71.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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Reviewed By :John Carlone 05/06/2025
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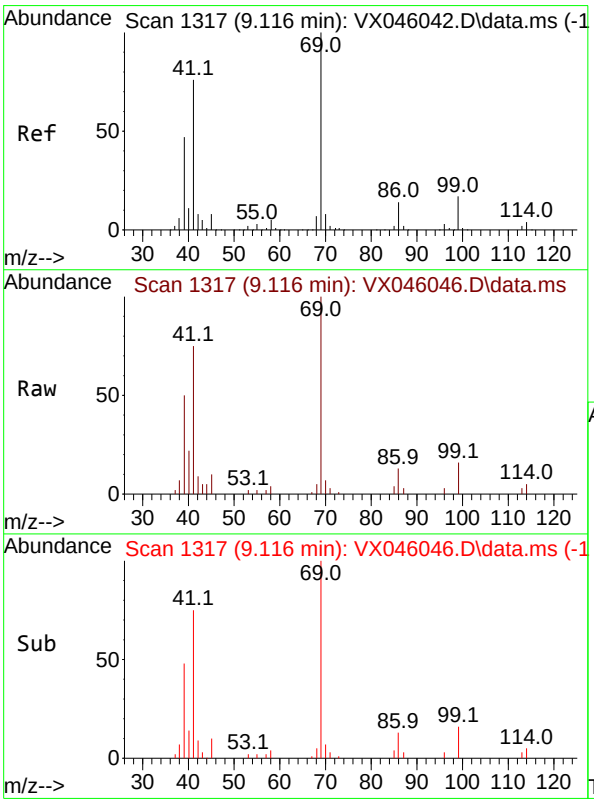
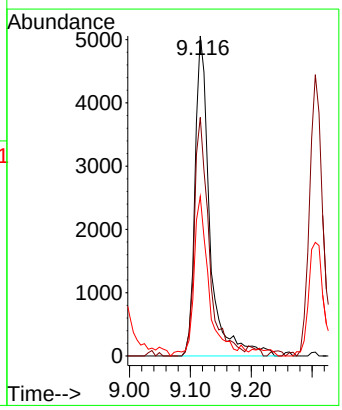
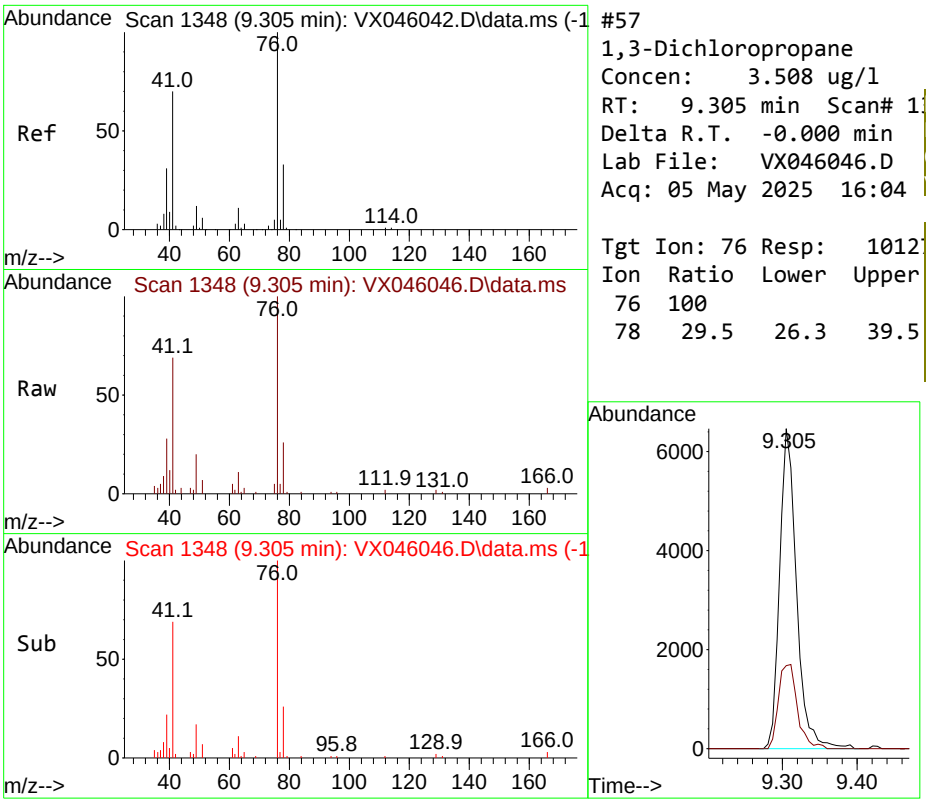


#56
Ethyl methacrylate
Concen: 3.390 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 69 Resp: 8555

Ion	Ratio	Lower	Upper
69	100		
41	73.7	60.8	91.2
39	49.3	39.0	58.6





#57
1,3-Dichloropropane
Concen: 3.508 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 76 Resp: 1012

Ion	Ratio	Lower	Upper
76	100		
78	29.5	26.3	39.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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Reviewed By :John Carlone 05/06/2025
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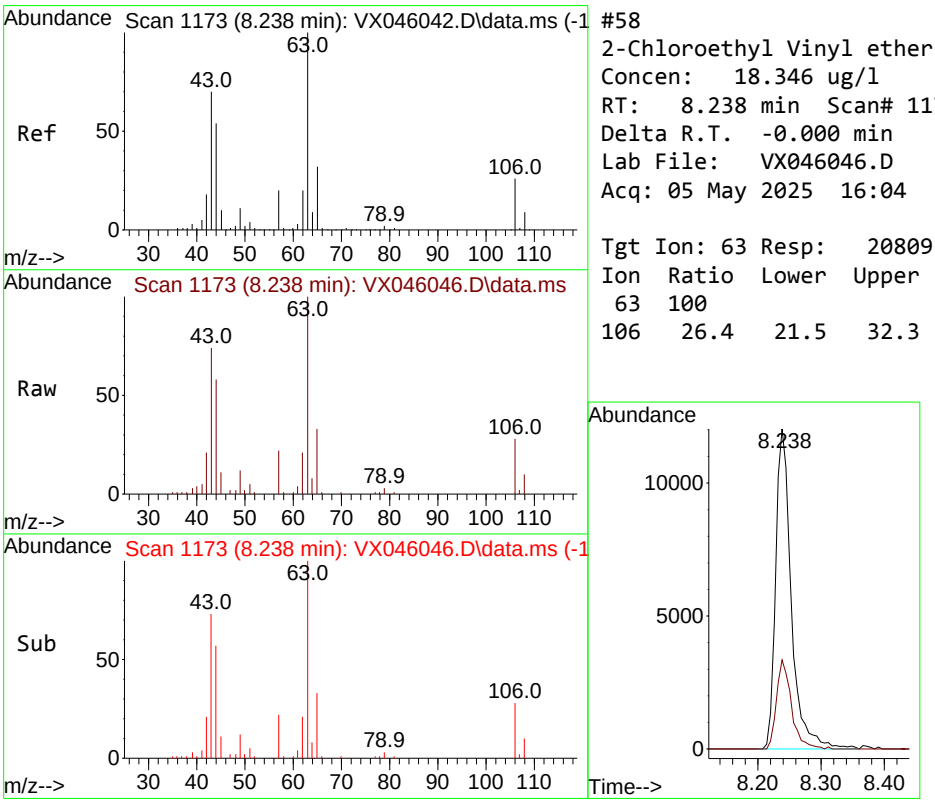
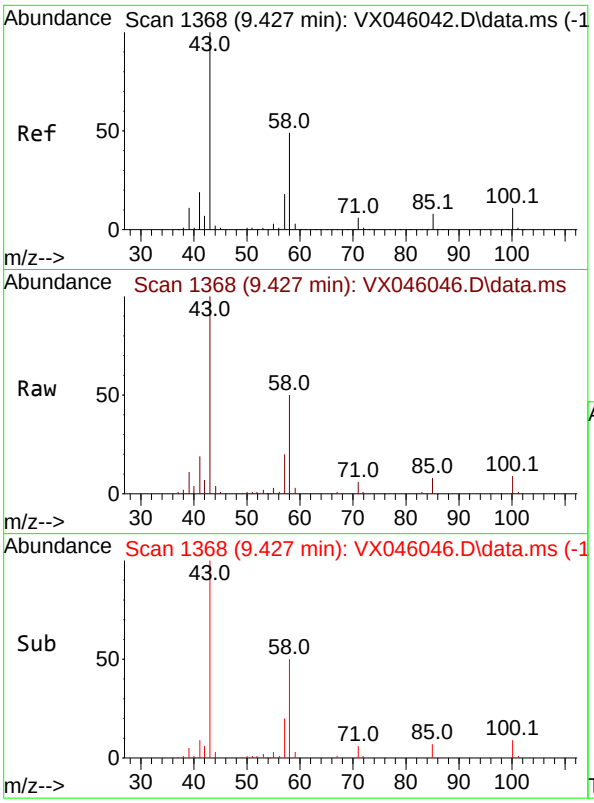


#58
2-Chloroethyl Vinyl ether
Concen: 18.346 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 63 Resp: 20809

Ion	Ratio	Lower	Upper
63	100		
106	26.4	21.5	32.3



#59
2-Hexanone
Concen: 16.651 ug/l
RT: 9.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 43 Resp: 3485

Ion	Ratio	Lower	Upper
43	100		
58	47.5	24.9	74.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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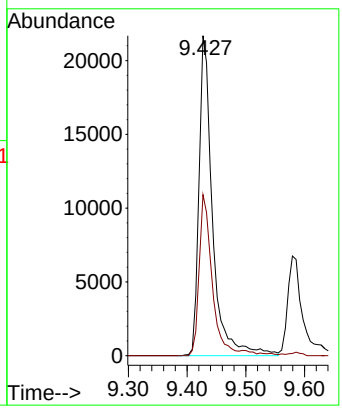
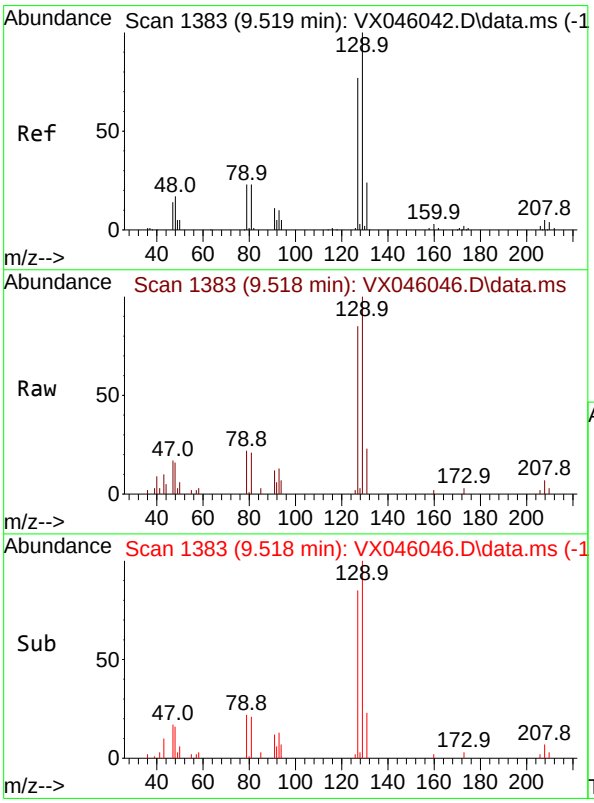
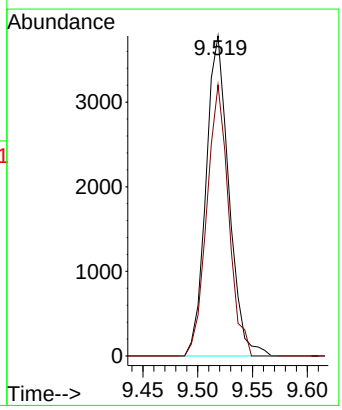


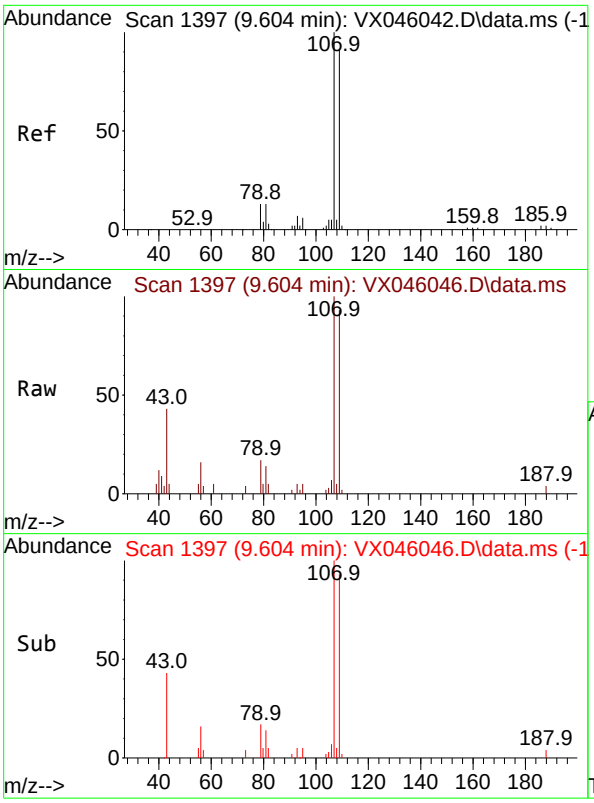


#60
Dibromochloromethane
Concen: 3.102 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion:129 Resp: 5500

Ion	Ratio	Lower	Upper
129	100		
127	80.4	39.3	117.8

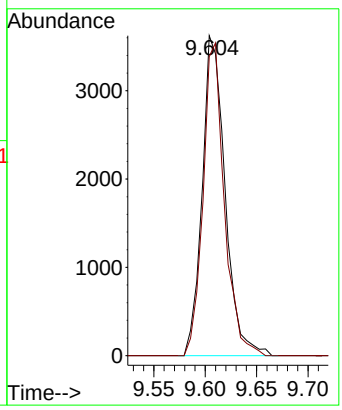




#61
1,2-Dibromoethane
Concen: 3.356 ug/l
RT: 9.604 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion:107 Resp: 561

Ion	Ratio	Lower	Upper
107	100		
109	91.0	73.3	109.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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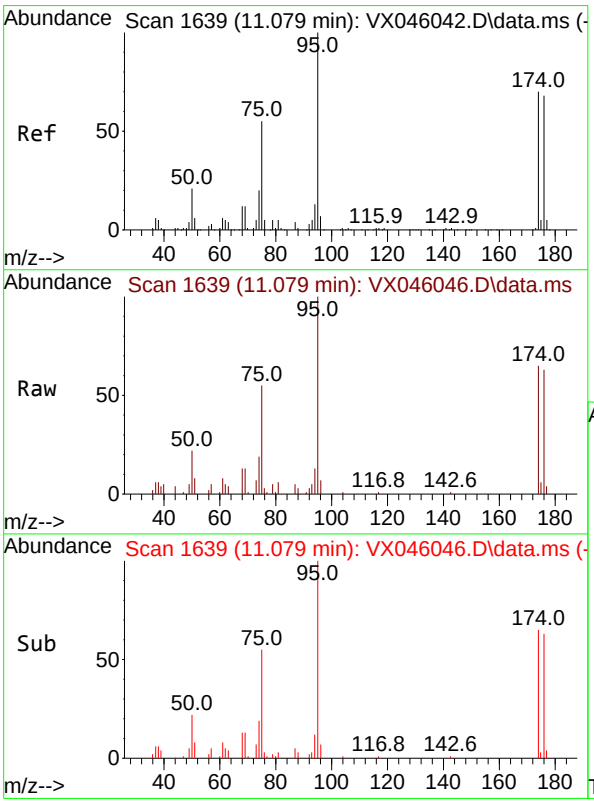
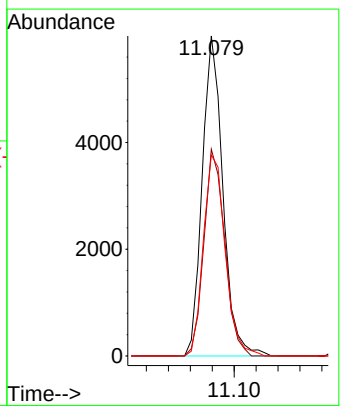
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

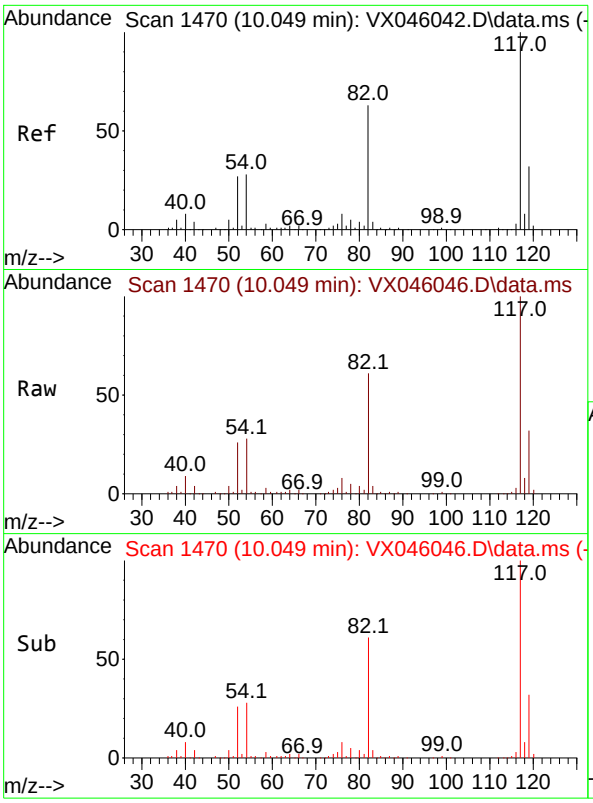


#62
4-Bromofluorobenzene
Concen: 3.378 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 95 Resp: 7822

Ion	Ratio	Lower	Upper
95	100		
174	65.0	0.0	135.8
176	66.6	0.0	131.4

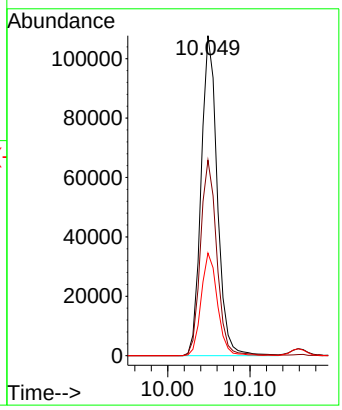




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion:117 Resp: 14716

Ion	Ratio	Lower	Upper
117	100		
82	61.1	50.6	76.0
119	32.1	25.8	38.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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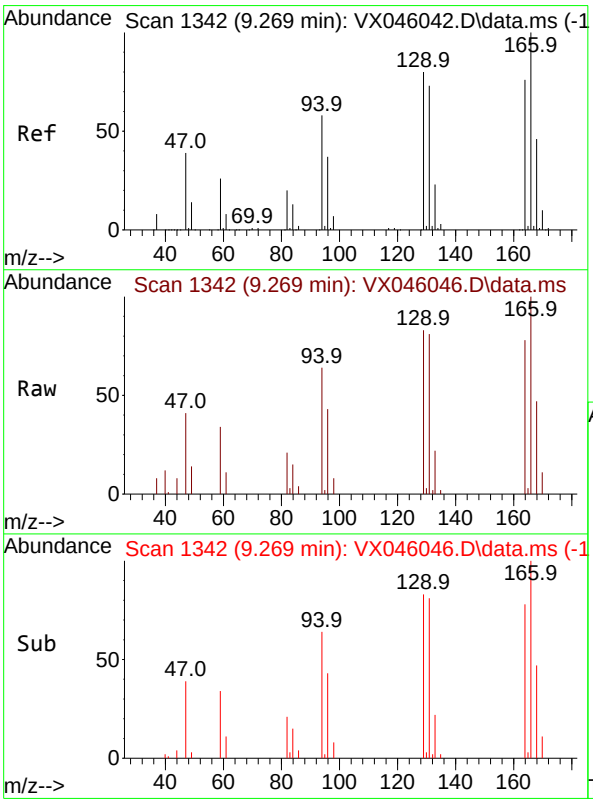
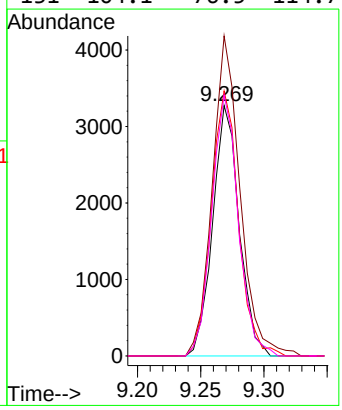
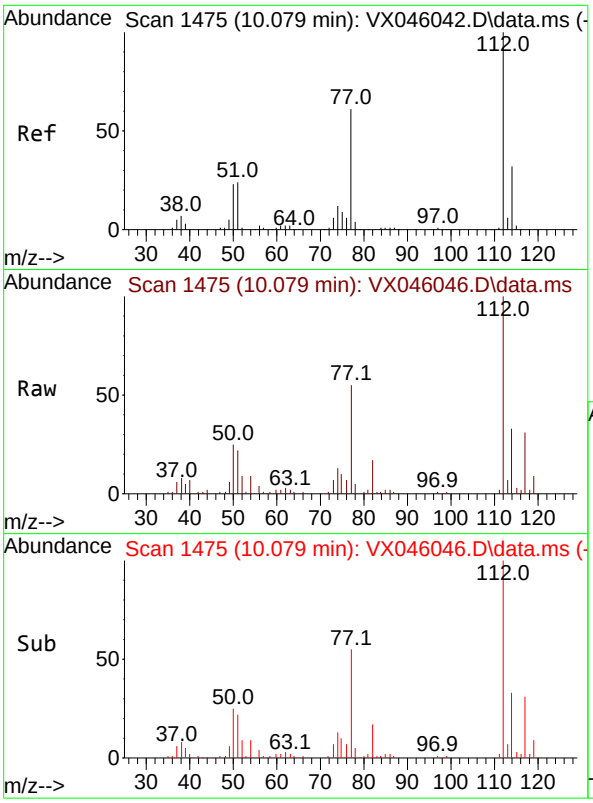


#64
Tetrachloroethene
Concen: 3.162 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion:164 Resp: 4752

Ion	Ratio	Lower	Upper
164	100		
166	127.8	105.0	157.6
129	105.8	83.5	125.3
131	104.1	76.5	114.7

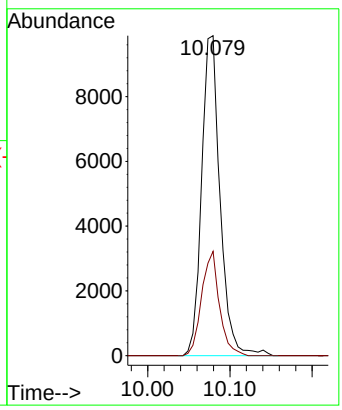




#65
Chlorobenzene
Concen: 3.399 ug/l
RT: 10.079 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion:112 Resp: 1539

Ion	Ratio	Lower	Upper
112	100		
114	32.6	25.4	38.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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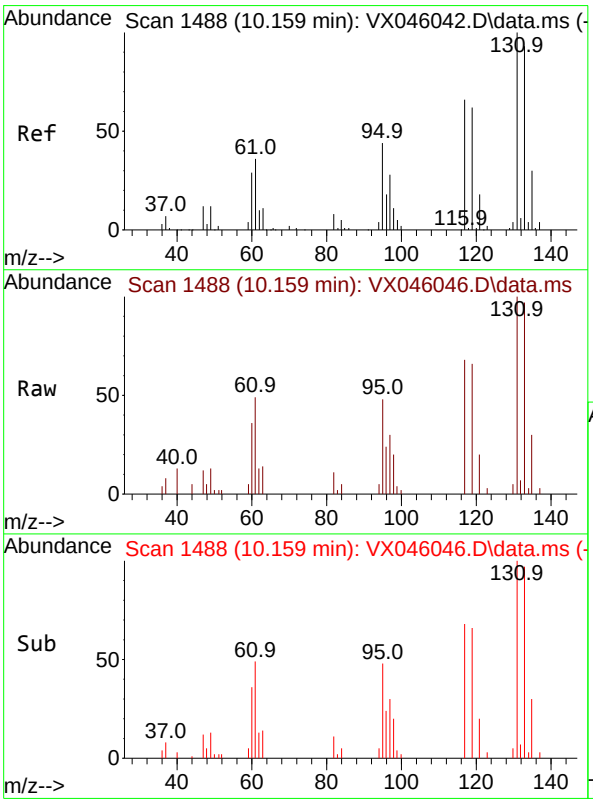
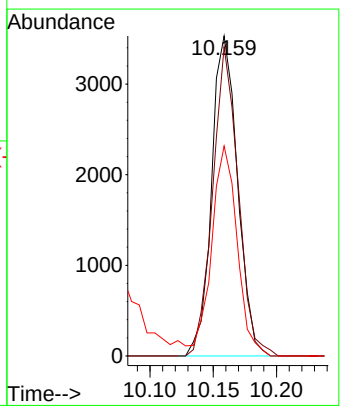
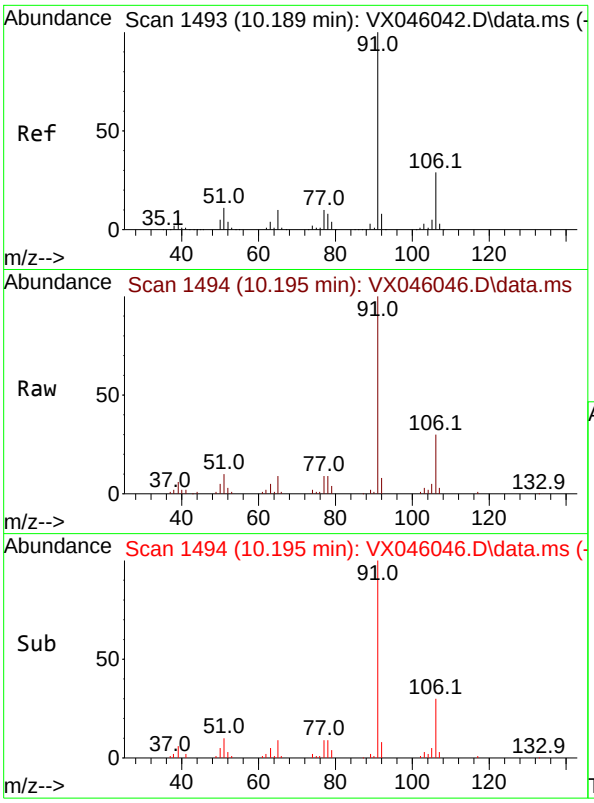


#66
1,1,1,2-Tetrachloroethane
Concen: 3.326 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion:131 Resp: 5024

Ion	Ratio	Lower	Upper
131	100		
133	95.0	47.3	141.9
119	64.8	31.6	95.0





#67
Ethyl Benzene
Concen: 3.463 ug/l
RT: 10.195 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 91 Resp: 2673

Ion	Ratio	Lower	Upper
91	100		
106	29.9	23.4	35.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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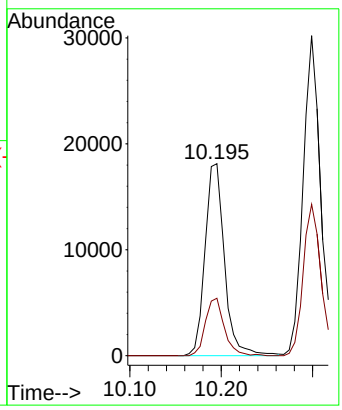
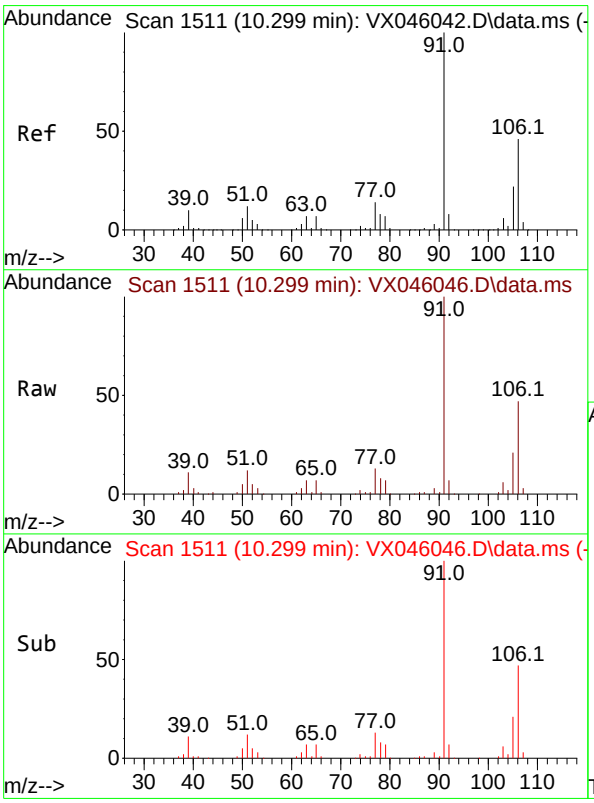
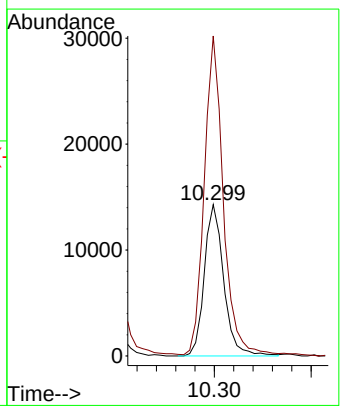


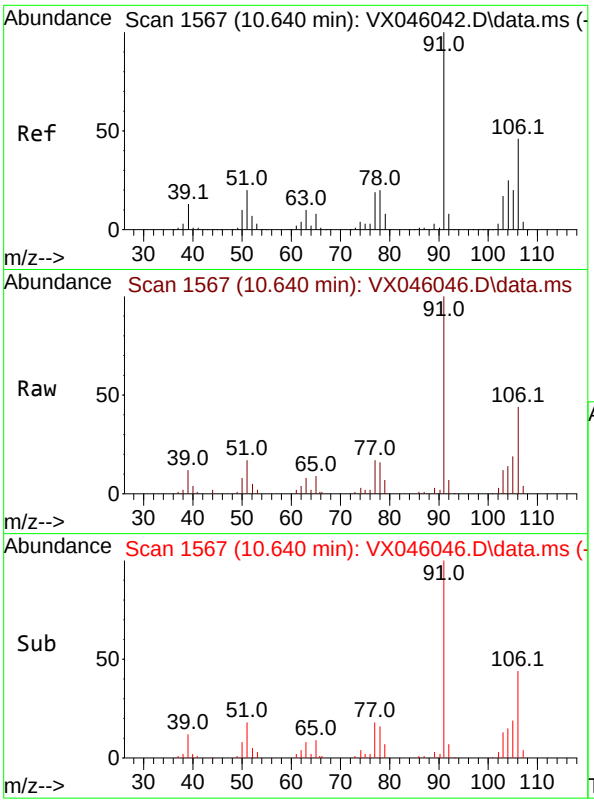


#68
m/p-Xylenes
Concen: 7.156 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion:106 Resp: 19957

Ion	Ratio	Lower	Upper
106	100		
91	210.1	171.2	256.8

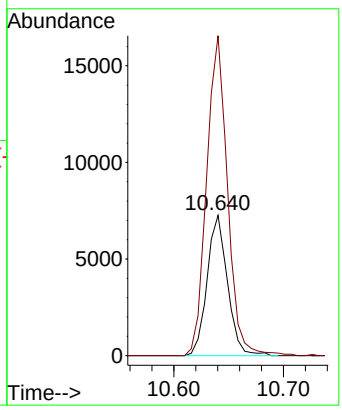




#69
o-Xylene
Concen: 3.343 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion:106 Resp: 939

Ion	Ratio	Lower	Upper
106	100		
91	233.6	112.7	338.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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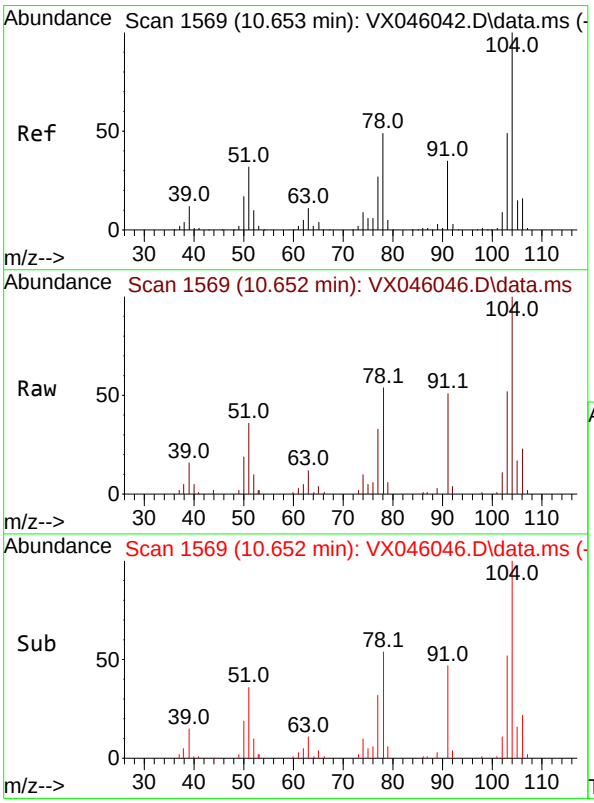
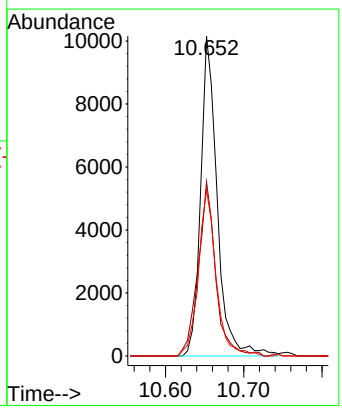
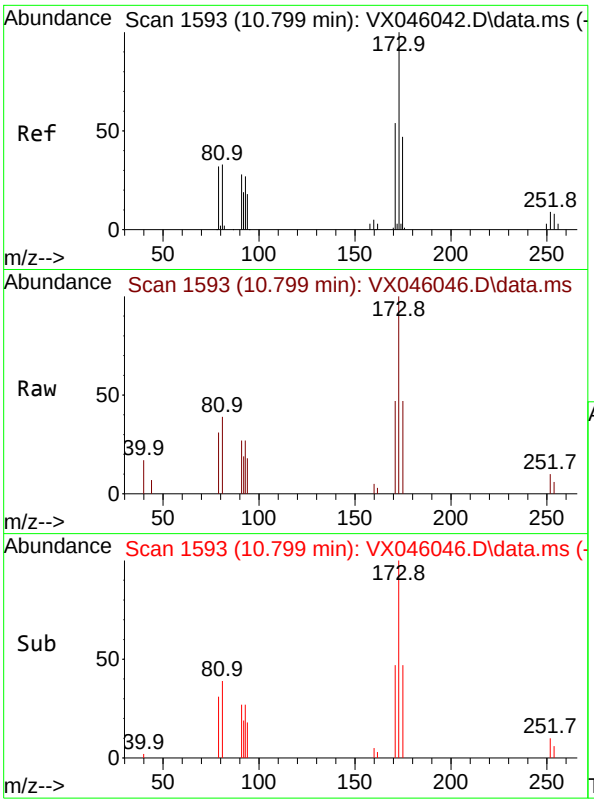


#70
Styrene
Concen: 3.312 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion:104 Resp: 14900

Ion	Ratio	Lower	Upper
104	100		
78	57.9	45.7	68.5
103	55.6	43.7	65.5

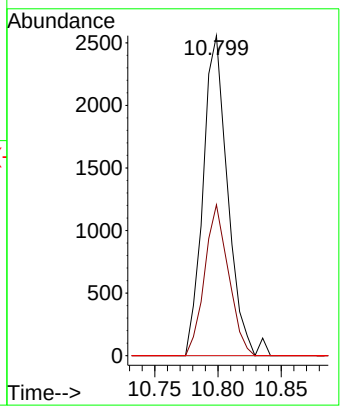




#71
Bromoform
Concen: 3.059 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion:173 Resp: 347

Ion	Ratio	Lower	Upper
173	100		
175	45.8	23.4	70.0
254	0.0	0.0	0.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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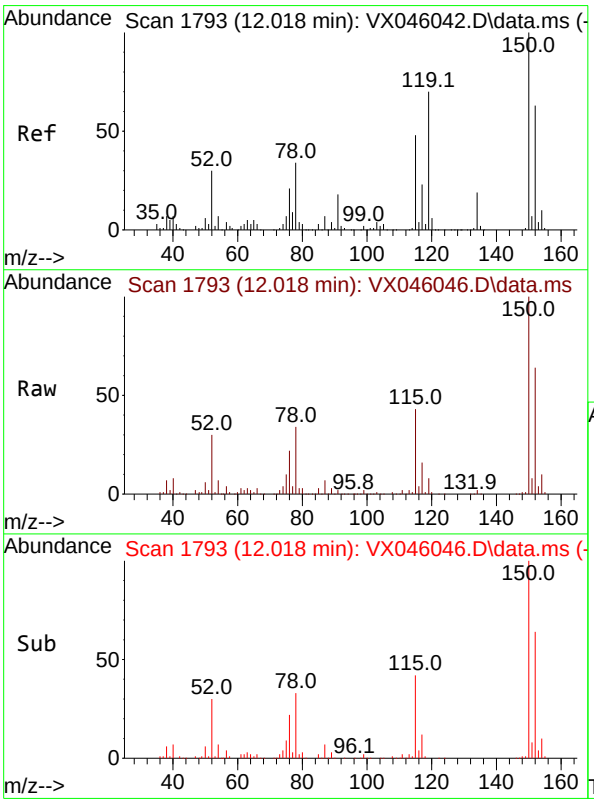
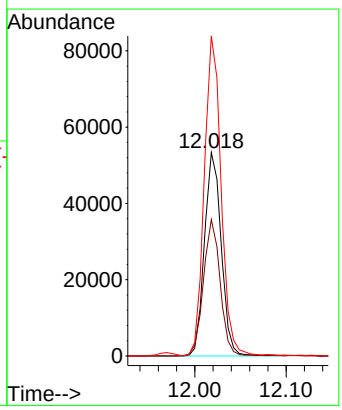
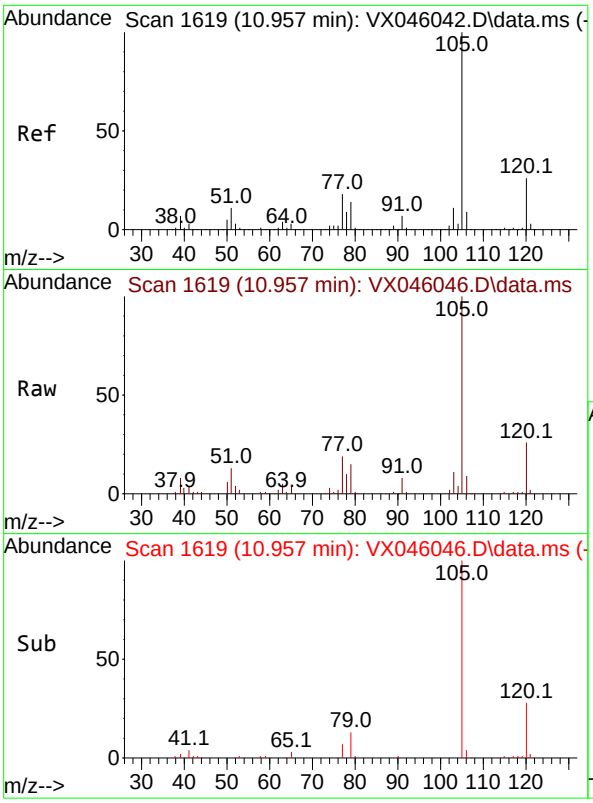


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion:152 Resp: 67939

Ion	Ratio	Lower	Upper
152	100		
115	66.8	46.9	140.7
150	157.5	0.0	351.0





#73
Isopropylbenzene
Concen: 3.266 ug/l
RT: 10.957 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion:105 Resp: 2420

Ion	Ratio	Lower	Upper
105	100		
120	26.4	12.8	38.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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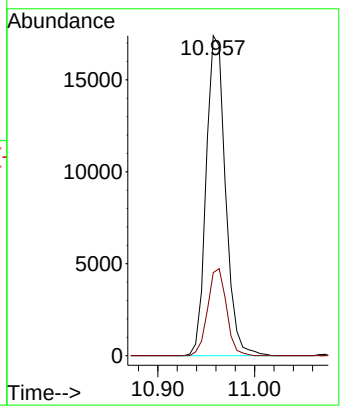
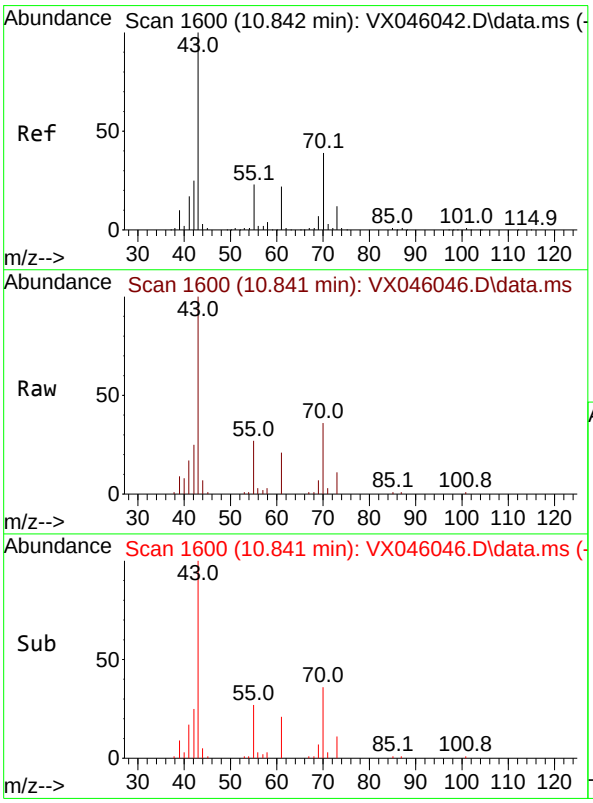
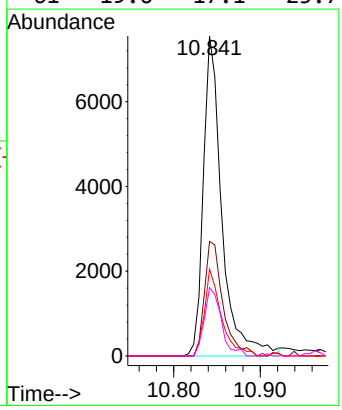


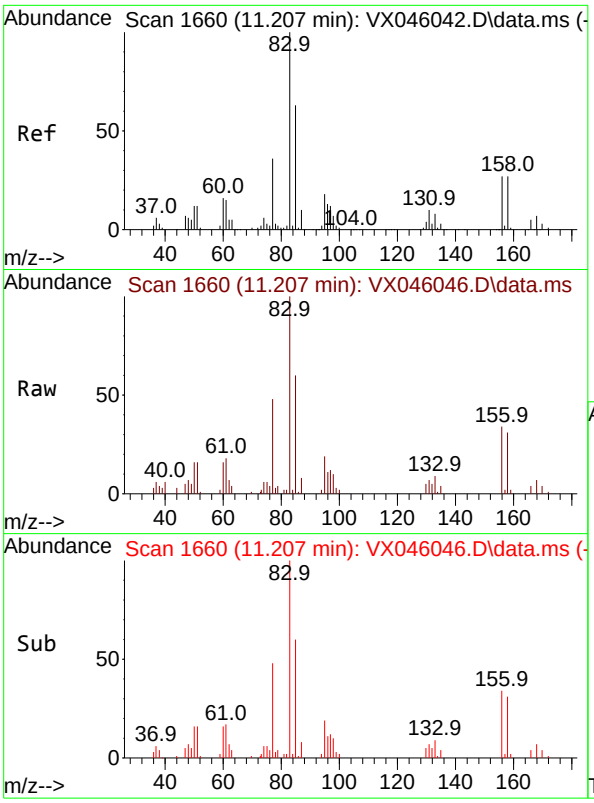


#74
N-amyl acetate
Concen: 3.038 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 43 Resp: 11224

Ion	Ratio	Lower	Upper
43	100		
70	35.4	30.9	46.3
55	25.0	18.7	28.1
61	19.6	17.1	25.7

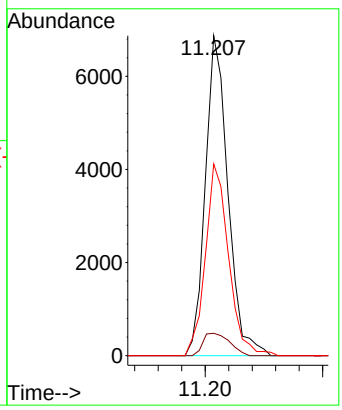




#75
1,1,2,2-Tetrachloroethane
Concen: 3.479 ug/l
RT: 11.207 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 83 Resp: 917

Ion	Ratio	Lower	Upper
83	100		
131	8.3	5.0	14.9
85	61.7	31.9	95.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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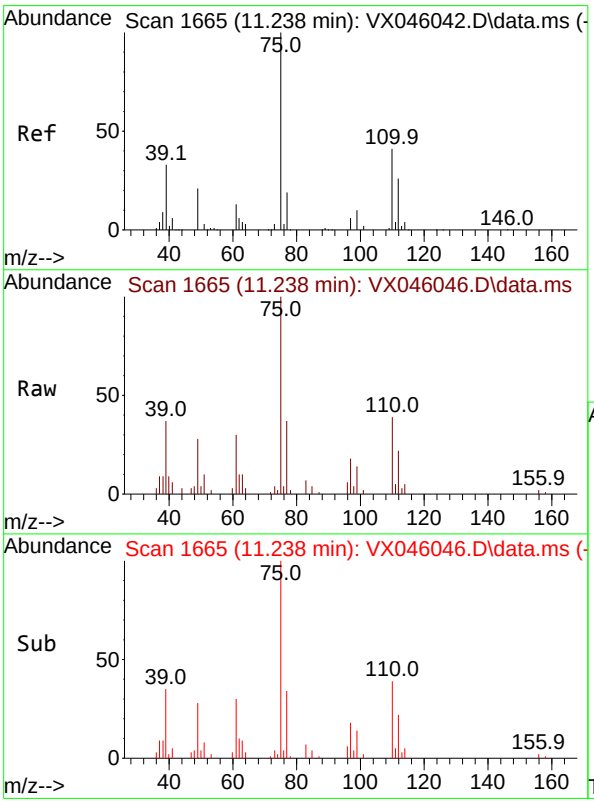
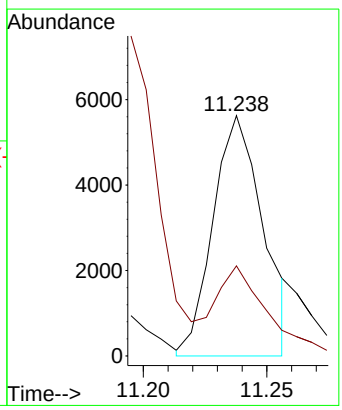
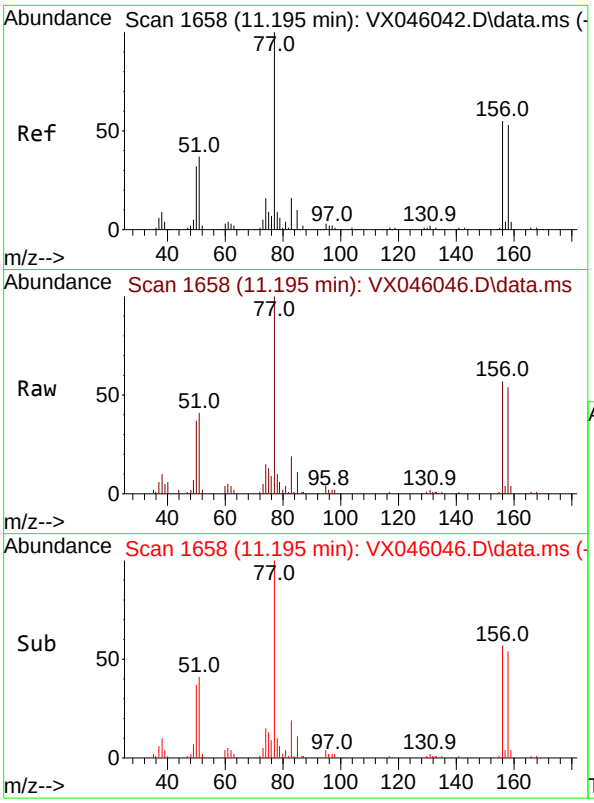


#76
1,2,3-Trichloropropane
Concen: 2.799 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 75 Resp: 7928

Ion	Ratio	Lower	Upper
75	100		
77	40.6	20.5	61.5

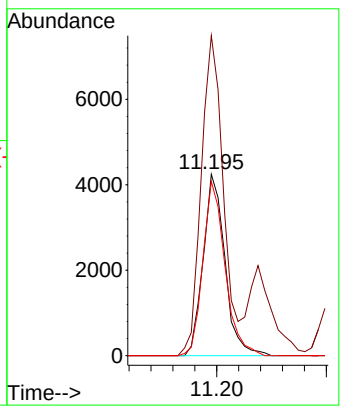




#77
Bromobenzene
Concen: 3.417 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion:156 Resp: 585

Ion	Ratio	Lower	Upper
156	100		
77	177.0	92.8	278.3
158	97.7	48.8	146.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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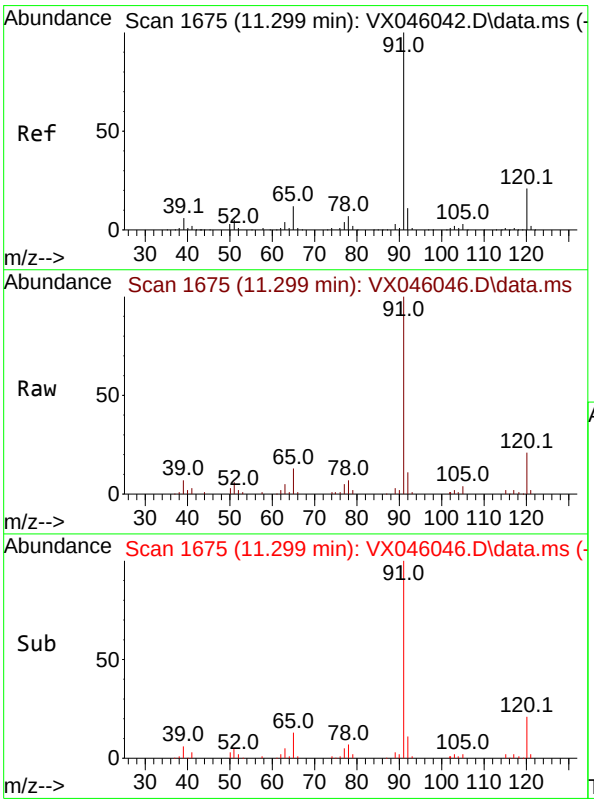
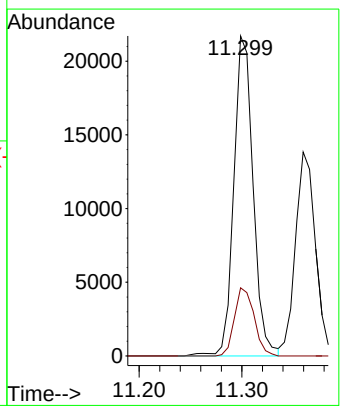
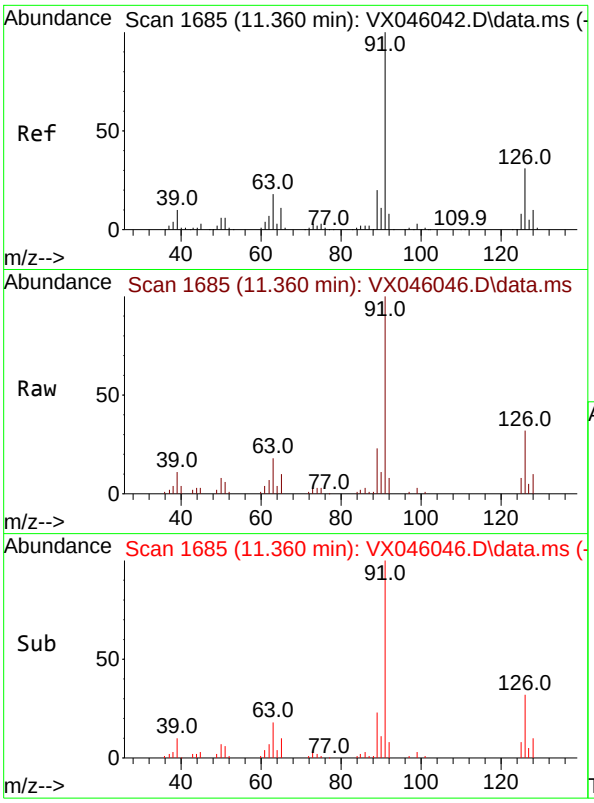


#78
n-propylbenzene
Concen: 3.424 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 91 Resp: 28436

Ion	Ratio	Lower	Upper
91	100		
120	21.7	10.8	32.4





#79
2-Chlorotoluene
Concen: 3.336 ug/l
RT: 11.360 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 91 Resp: 1867

Ion	Ratio	Lower	Upper
91	100		
126	29.7	15.6	46.7

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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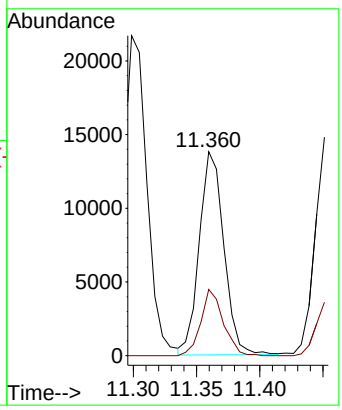
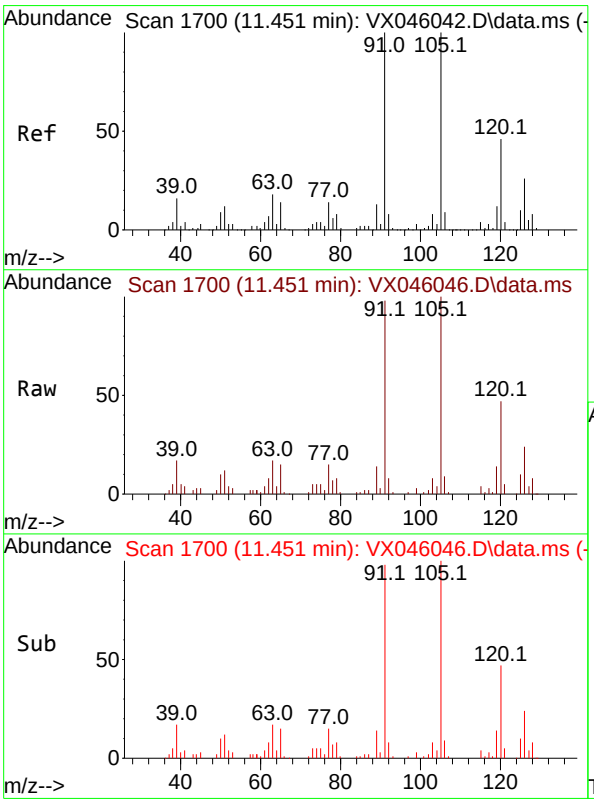
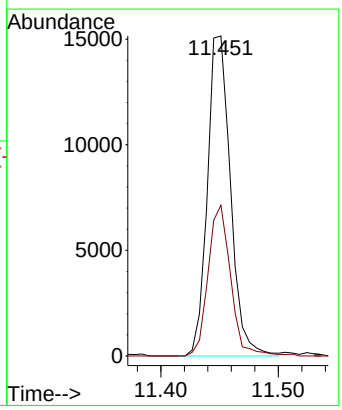


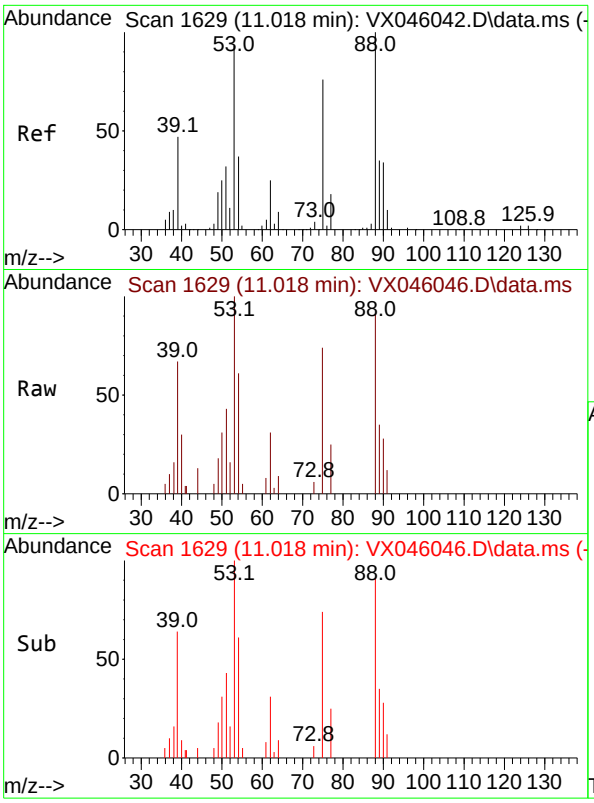


#80
1,3,5-Trimethylbenzene
Concen: 3.372 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion:105 Resp: 20742

Ion	Ratio	Lower	Upper
105	100		
120	45.9	23.1	69.2

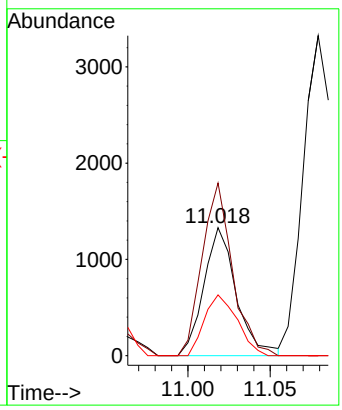




#81
trans-1,4-Dichloro-2-butene
Concen: 2.686 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 75 Resp: 182

Ion	Ratio	Lower	Upper
75	100		
53	125.8	100.5	150.7
89	47.9	37.0	55.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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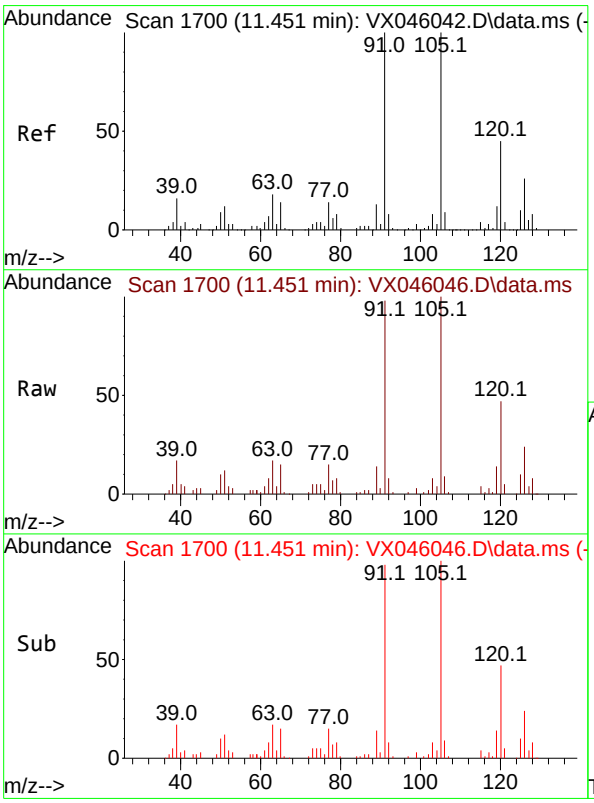
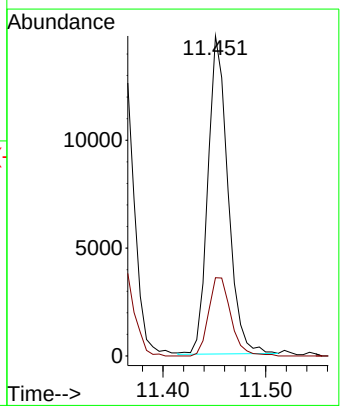
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

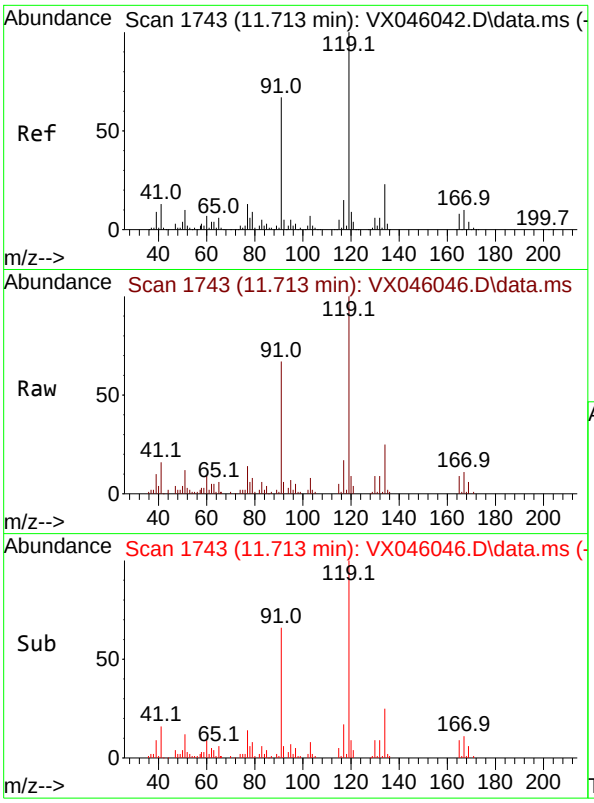


#82
4-Chlorotoluene
Concen: 3.245 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 91 Resp: 19966

Ion	Ratio	Lower	Upper
91	100		
126	27.3	13.3	39.8





#83
tert-Butylbenzene
Concen: 3.484 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

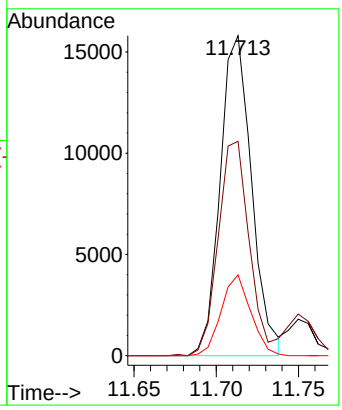
Tgt Ion:119 Resp: 2104

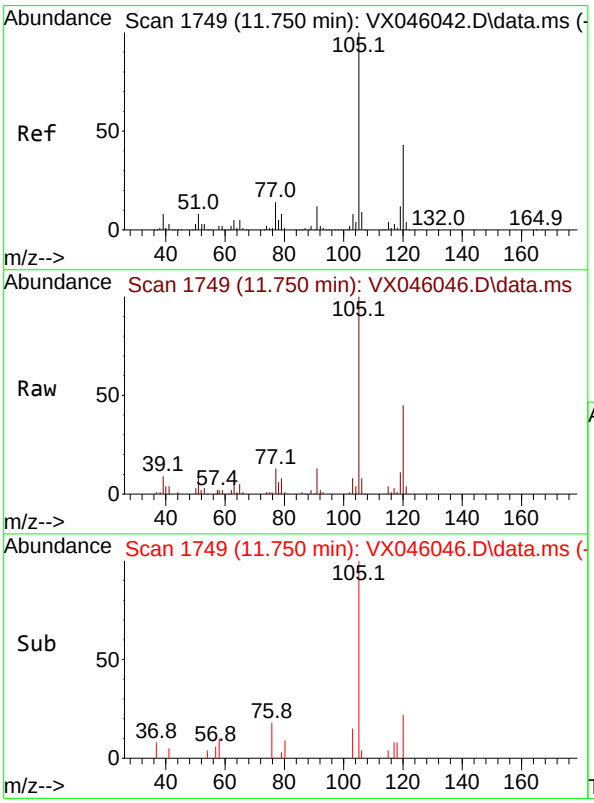
Ion	Ratio	Lower	Upper
119	100		
91	67.0	32.9	98.7
134	23.8	11.4	34.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

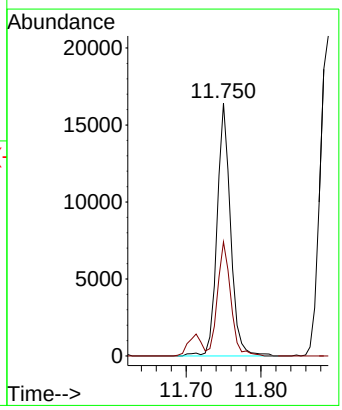


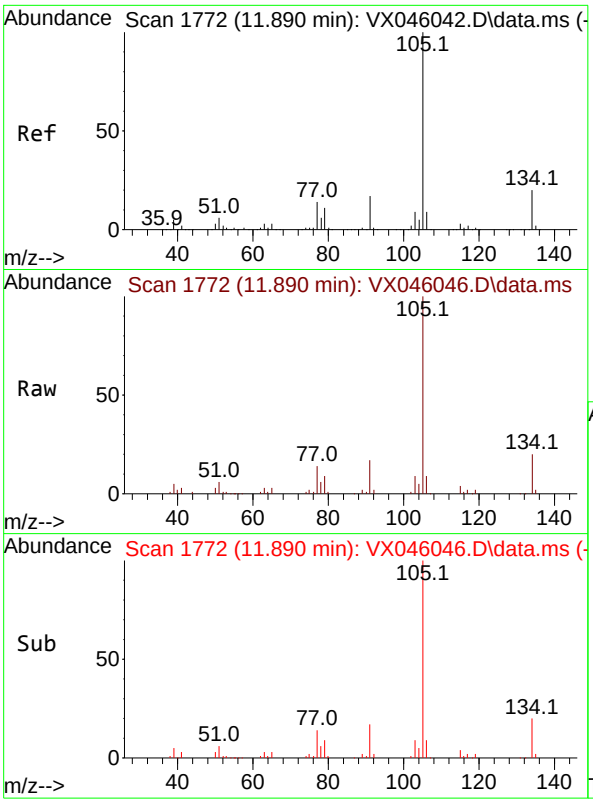


#84
1,2,4-Trimethylbenzene
Concen: 3.355 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion:105 Resp: 20613

Ion	Ratio	Lower	Upper
105	100		
120	44.5	21.2	63.6





#85
sec-Butylbenzene
Concen: 3.412 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion:105 Resp: 2559

Ion	Ratio	Lower	Upper
105	100		
134	19.1	9.7	29.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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Reviewed By :John Carlone 05/06/2025
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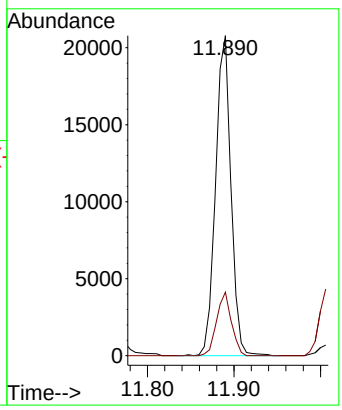
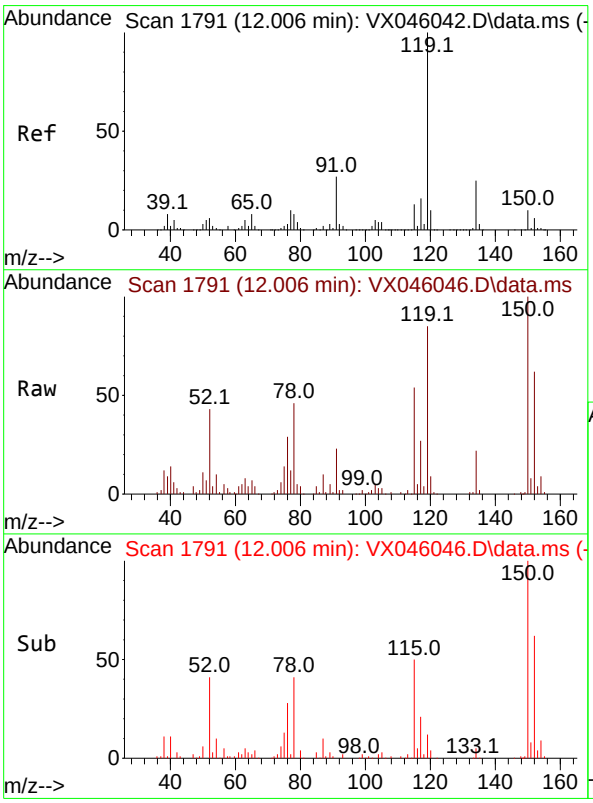
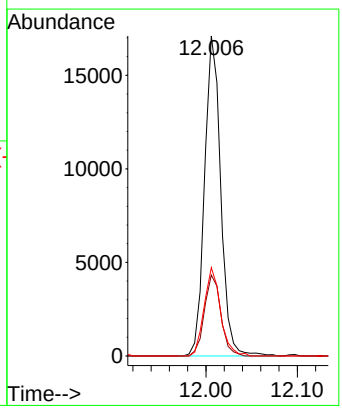


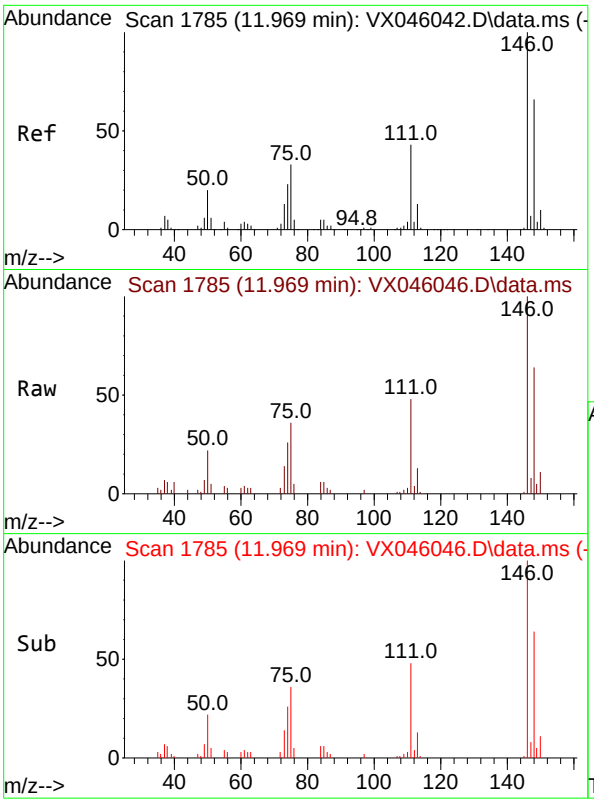


#86
p-Isopropyltoluene
Concen: 3.460 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion:119 Resp: 20955

Ion	Ratio	Lower	Upper
119	100		
134	25.6	12.5	37.5
91	28.0	13.8	41.4

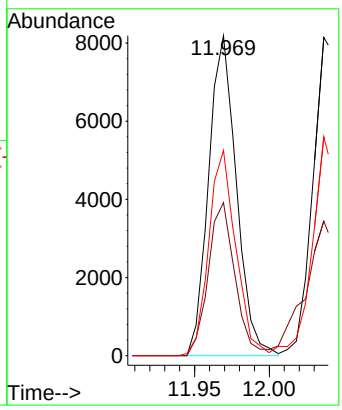




#87
1,3-Dichlorobenzene
Concen: 3.315 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion:146 Resp: 1058

Ion	Ratio	Lower	Upper
146	100		
111	46.2	22.1	66.3
148	62.4	32.1	96.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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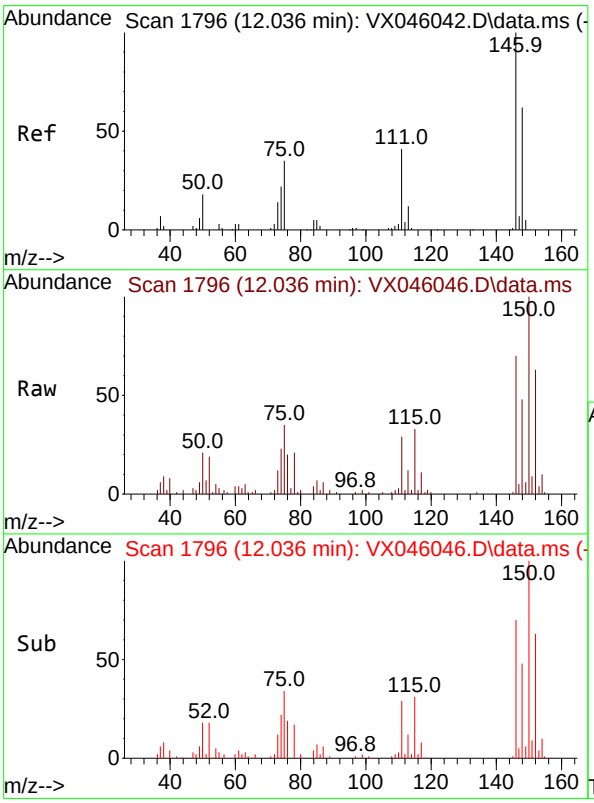
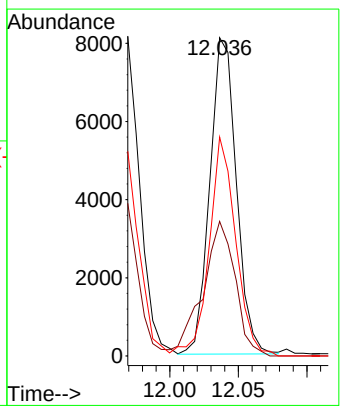
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

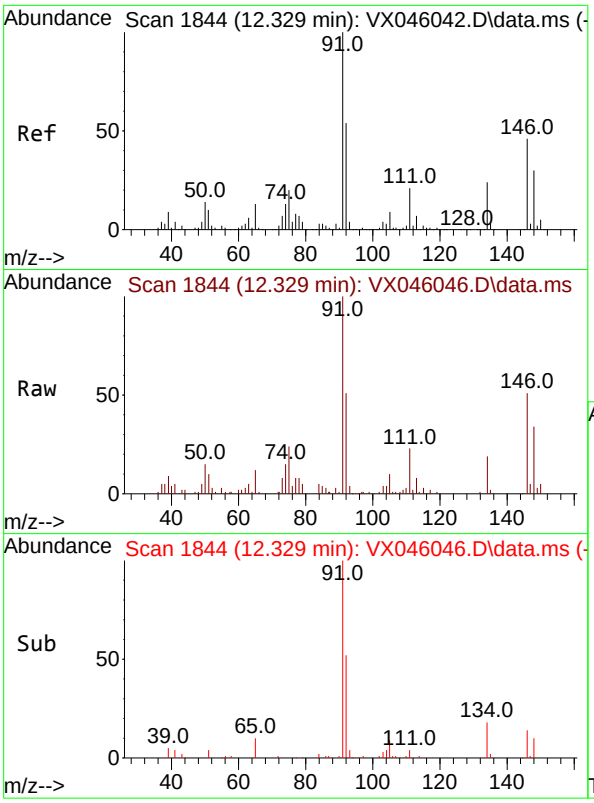


#88
1,4-Dichlorobenzene
Concen: 3.486 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion:146 Resp: 10908

Ion	Ratio	Lower	Upper
146	100		
111	52.1	21.3	63.9
148	69.4	31.9	95.5

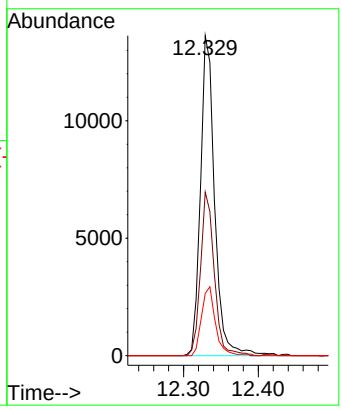




#89
n-Butylbenzene
Concen: 3.419 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 91 Resp: 1800

Ion	Ratio	Lower	Upper
91	100		
92	49.5	26.9	80.7
134	21.2	11.8	35.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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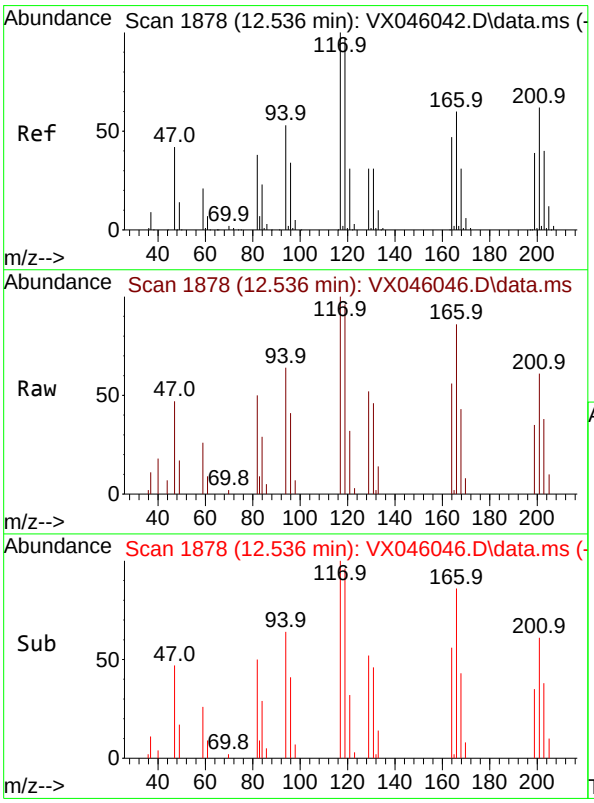
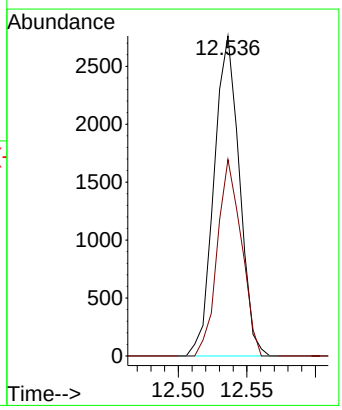
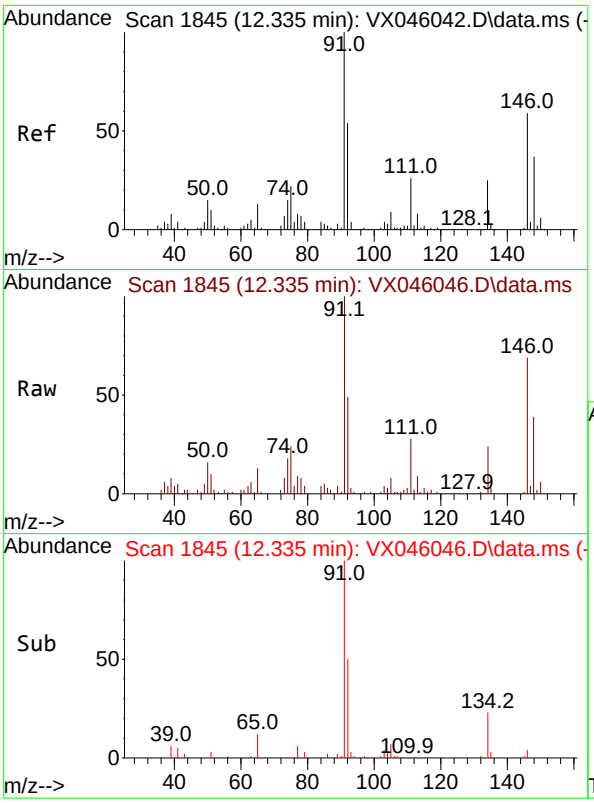


#90
Hexachloroethane
Concen: 3.153 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion:117 Resp: 3553

Ion	Ratio	Lower	Upper
117	100		
201	58.5	31.6	94.7

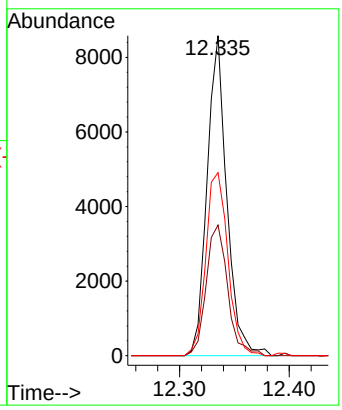




#91
1,2-Dichlorobenzene
Concen: 3.444 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion:146 Resp: 1071

Ion	Ratio	Lower	Upper
146	100		
111	44.7	22.4	67.3
148	64.2	31.6	94.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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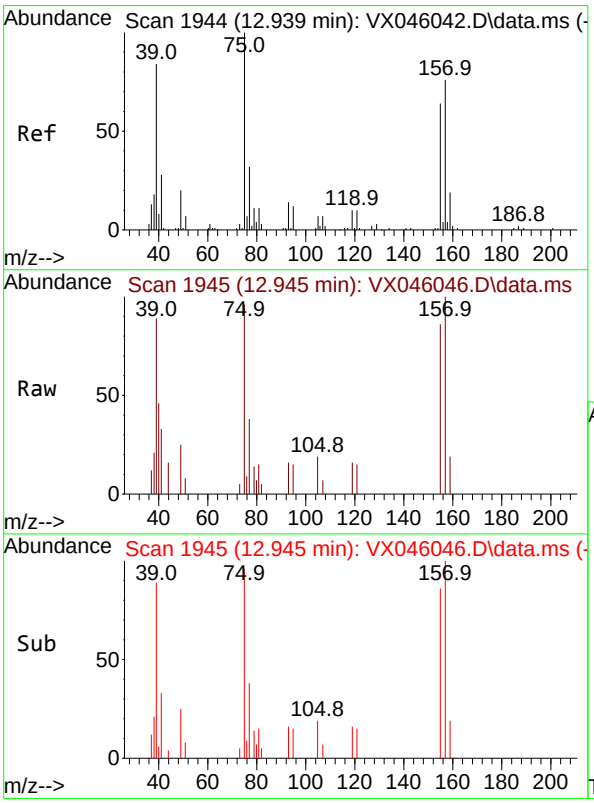
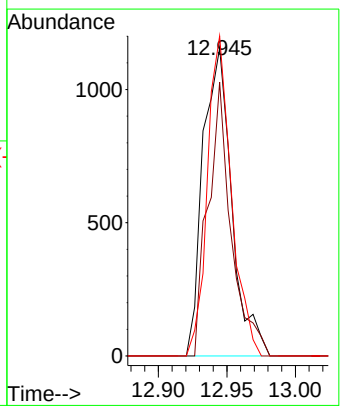
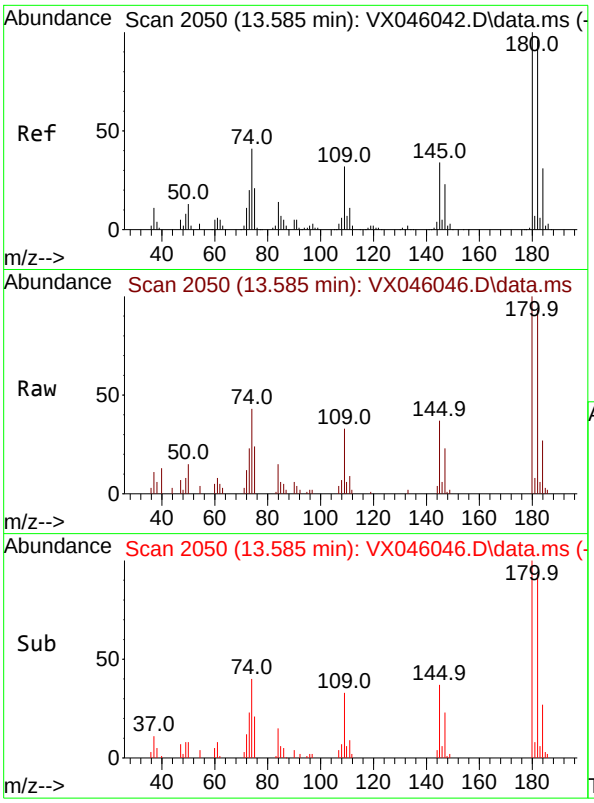


#92
1,2-Dibromo-3-Chloropropane
Concen: 2.812 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. 0.006 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 75 Resp: 1687

Ion	Ratio	Lower	Upper
75	100		
155	71.7	34.9	104.8
157	87.0	43.8	131.4

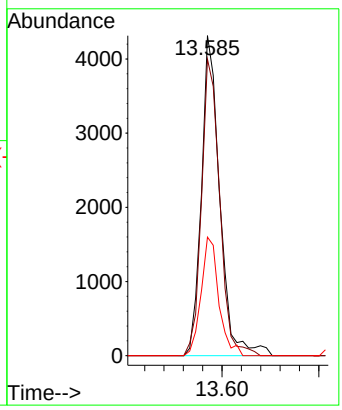




#93
1,2,4-Trichlorobenzene
Concen: 3.359 ug/l
RT: 13.585 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion:180 Resp: 572

Ion	Ratio	Lower	Upper
180	100		
182	91.6	47.9	143.8
145	35.7	17.1	51.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 05/06/2025
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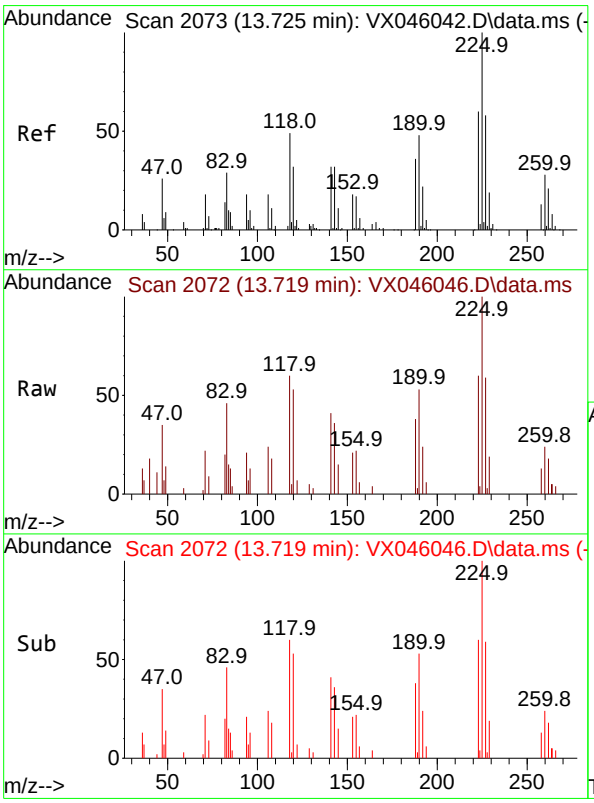
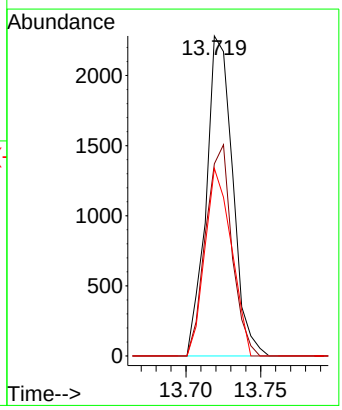
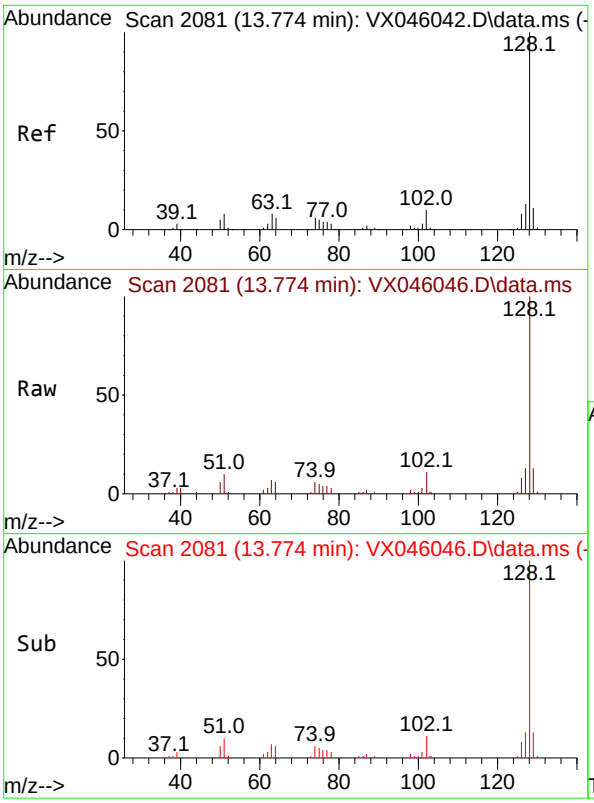


#94
Hexachlorobutadiene
Concen: 3.535 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. -0.006 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion:225 Resp: 2816

Ion	Ratio	Lower	Upper
225	100		
223	65.1	30.8	92.4
227	58.8	30.9	92.7

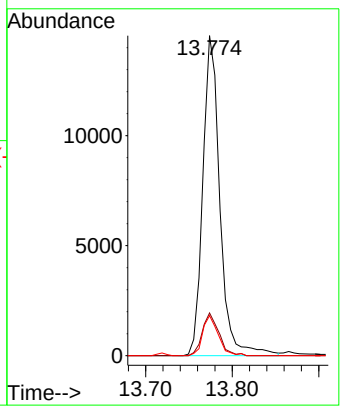




#95
Naphthalene
Concen: 3.209 ug/l
RT: 13.774 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion:128 Resp: 1990

Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.4	15.6
129	11.5	8.6	13.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 05/06/2025
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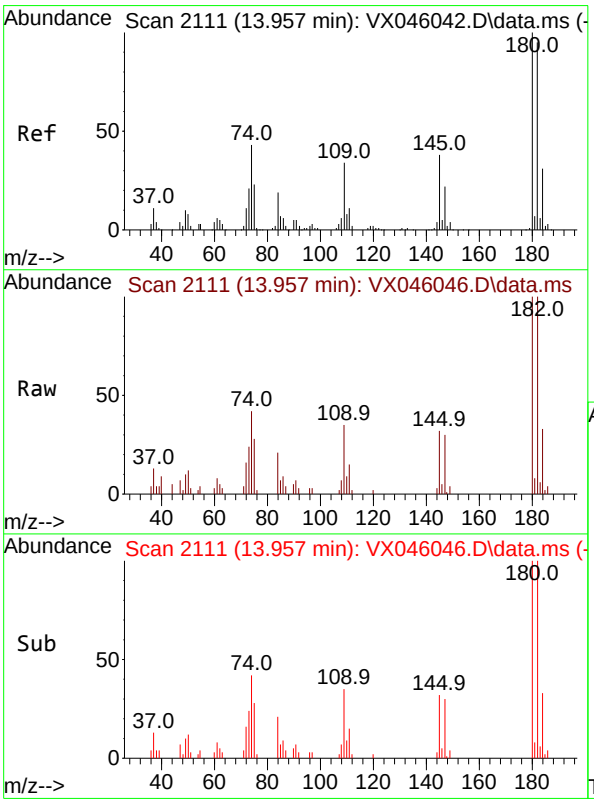
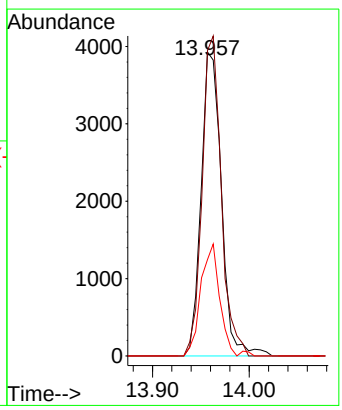


#96
1,2,3-Trichlorobenzene
Concen: 3.217 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion:180 Resp: 5745

Ion	Ratio	Lower	Upper
180	100		
182	99.1	47.8	143.3
145	34.8	18.1	54.3



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Data File : VX046047.D
Acq On : 05 May 2025 16:27
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

Quant Time: May 06 06:13:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.544	168	92040	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	6.757	114	167022	50.000	ug/l		0.00
63) Chlorobenzene-d5	10.049	117	140108	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	59123	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	0.000	65	0d	0.000	ug/l		
Spiked Amount 50.000	Range 74 - 125		Recovery =	0.000%#			
35) Dibromofluoromethane	0.000	113	0d	0.000	ug/l		
Spiked Amount 50.000	Range 75 - 124		Recovery =	0.000%#			
50) Toluene-d8	0.000	98	0d	0.000	ug/l		
Spiked Amount 50.000	Range 86 - 113		Recovery =	0.000%#			
62) 4-Bromofluorobenzene	0.000	95	0d	0.000	ug/l		
Spiked Amount 50.000	Range 77 - 121		Recovery =	0.000%#			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.166	85	1211	0.596	ug/l		98
3) Chloromethane	1.307	50	1278	0.639	ug/l		97
4) Vinyl Chloride	1.374	62	1239	0.707	ug/l	#	82
6) Chloroethane	1.678	64	859	0.951	ug/l		91
7) Trichlorofluoromethane	1.880	101	1959	0.734	ug/l		95
8) Diethyl Ether	2.130	74	742	0.845	ug/l		87
9) 1,1,2-Trichlorotrifluo...	2.319	101	1166	0.731	ug/l		96
12) 1,1-Dichloroethene	2.313	96	1093	0.704	ug/l	#	87
14) Allyl chloride	2.654	41	1936	0.660	ug/l		89
15) Acrylonitrile	3.075	53	3343	3.424	ug/l		98
16) Acetone	2.380	43	3500	3.736	ug/l		97
17) Carbon Disulfide	2.508	76	2619	0.728	ug/l		98
18) Methyl Acetate	2.709	43	1852	0.828	ug/l		98
19) Methyl tert-butyl Ether	3.117	73	3588	0.662	ug/l		96
20) Methylene Chloride	2.782	84	1571	0.828	ug/l	#	90
21) trans-1,2-Dichloroethene	3.081	96	1111	0.701	ug/l	#	71
22) Diisopropyl ether	3.757	45	3857	0.703	ug/l	#	26
23) Vinyl Acetate	3.727	43	15283	3.154	ug/l		96
24) 1,1-Dichloroethane	3.605	63	2054	0.637	ug/l		97
25) 2-Butanone	4.593	43	4558	3.371	ug/l		92
26) 2,2-Dichloropropane	4.458	77	1777	0.728	ug/l		84
27) cis-1,2-Dichloroethene	4.483	96	1324	0.693	ug/l		91
28) Bromochloromethane	4.910	49	1061m	0.619	ug/l		
29) Tetrahydrofuran	5.019	42	2931	3.338	ug/l		99
30) Chloroform	5.093	83	2328	0.695	ug/l		98
32) 1,1,1-Trichloroethane	5.379	97	1869	0.647	ug/l	#	51
36) 1,1-Dichloropropene	5.684	75	1648	0.758	ug/l	#	83
37) Ethyl Acetate	4.733	43	1956m	0.717	ug/l		
38) Carbon Tetrachloride	5.678	117	1807	0.724	ug/l	#	78
39) Methylcyclohexane	7.373	83	2096	0.770	ug/l		97
40) Benzene	6.044	78	4502	0.668	ug/l	#	89
41) Methacrylonitrile	4.946	41	778	0.513	ug/l	#	56
42) 1,2-Dichloroethane	6.092	62	1934	0.694	ug/l		81
43) Isopropyl Acetate	6.354	43	2553	0.612	ug/l	#	81
44) Trichloroethene	7.135	130	1083	0.680	ug/l		85
45) 1,2-Dichloropropane	7.440	63	1059	0.633	ug/l		89

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046047.D
Acq On : 05 May 2025 16:27
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

Quant Time: May 06 06:13:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) Dibromomethane	7.586	93	880	0.667	ug/l		97
47) Bromodichloromethane	7.818	83	1620	0.633	ug/l	#	91
48) Methyl methacrylate	7.714	41	1235m	0.577	ug/l		
49) 1,4-Dioxane	7.677	88	498	11.703	ug/l	#	66
51) 4-Methyl-2-Pentanone	8.580	43	9378	3.430	ug/l		97
52) Toluene	8.720	92	2684	0.672	ug/l		96
53) t-1,3-Dichloropropene	8.988	75	1238	0.576	ug/l	#	79
54) cis-1,3-Dichloropropene	8.379	75	1414	0.564	ug/l	#	87
55) 1,1,2-Trichloroethane	9.153	97	1029	0.637	ug/l		92
56) Ethyl methacrylate	9.128	69	1260	0.504	ug/l	#	76
57) 1,3-Dichloropropane	9.311	76	2036	0.711	ug/l		97
58) 2-Chloroethyl Vinyl ether	8.244	63	3846	3.420	ug/l		94
59) 2-Hexanone	9.439	43	6424	3.096	ug/l		88
60) Dibromochloromethane	9.525	129	1023	0.582	ug/l		93
61) 1,2-Dibromoethane	9.610	107	1077	0.650	ug/l		98
64) Tetrachloroethene	9.275	164	972	0.679	ug/l		95
65) Chlorobenzene	10.079	112	3170	0.735	ug/l		98
66) 1,1,1,2-Tetrachloroethane	10.159	131	1035	0.720	ug/l	#	67
67) Ethyl Benzene	10.195	91	5052	0.687	ug/l		94
68) m/p-Xylenes	10.299	106	3630	1.367	ug/l		97
69) o-Xylene	10.640	106	1799	0.672	ug/l		94
70) Styrene	10.659	104	2664	0.622	ug/l		98
71) Bromoform	10.799	173	657	0.608	ug/l	#	100
73) Isopropylbenzene	10.963	105	4480	0.695	ug/l		96
74) N-amyl acetate	10.854	43	2028	0.631	ug/l	#	91
75) 1,1,2,2-Tetrachloroethane	11.213	83	1835	0.800	ug/l		94
76) 1,2,3-Trichloropropane	11.244	75	1661m	0.674	ug/l		
77) Bromobenzene	11.201	156	1095	0.734	ug/l		96
78) n-propylbenzene	11.305	91	5052	0.699	ug/l		97
79) 2-Chlorotoluene	11.360	91	3765	0.773	ug/l		94
80) 1,3,5-Trimethylbenzene	11.451	105	3590	0.671	ug/l		96
82) 4-Chlorotoluene	11.457	91	3815	0.713	ug/l		97
83) tert-Butylbenzene	11.713	119	3951	0.751	ug/l		97
84) 1,2,4-Trimethylbenzene	11.756	105	3725	0.697	ug/l		97
85) sec-Butylbenzene	11.890	105	4385	0.672	ug/l		100
86) p-Isopropyltoluene	12.006	119	3577	0.679	ug/l		94
87) 1,3-Dichlorobenzene	11.969	146	1914	0.689	ug/l		99
88) 1,4-Dichlorobenzene	12.036	146	2149m	0.789	ug/l		
89) n-Butylbenzene	12.335	91	2889	0.631	ug/l		92
90) Hexachloroethane	12.536	117	604	0.616	ug/l		99
91) 1,2-Dichlorobenzene	12.341	146	2022	0.747	ug/l		95
92) 1,2-Dibromo-3-Chloropr...	12.945	75	306	0.586	ug/l		83
93) 1,2,4-Trichlorobenzene	13.591	180	1019	0.688	ug/l		94
94) Hexachlorobutadiene	13.725	225	465	0.671	ug/l		89
95) Naphthalene	13.780	128	4138	0.767	ug/l		97
96) 1,2,3-Trichlorobenzene	13.963	180	1113	0.716	ug/l		96

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

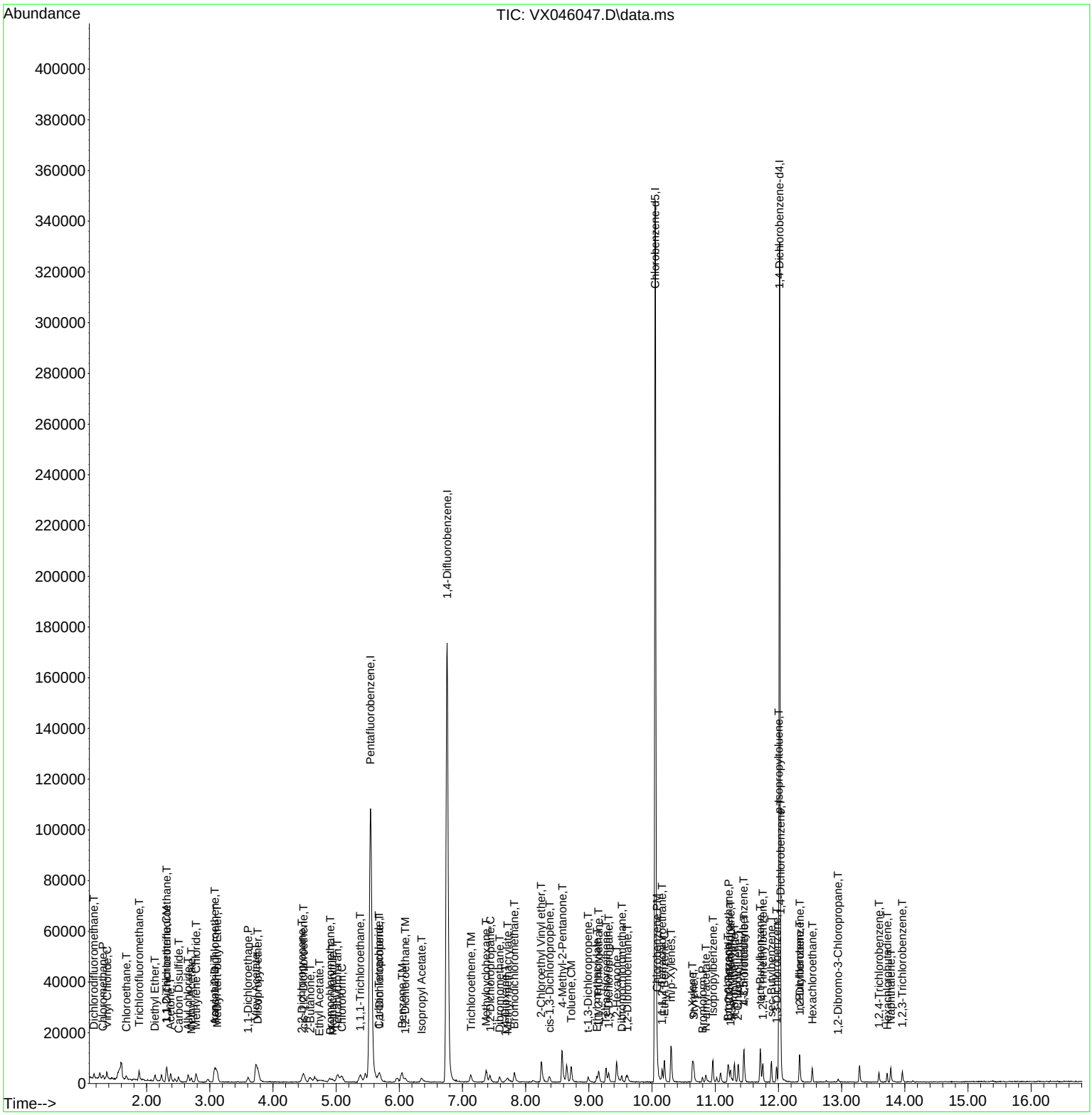
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046047.D
Acq On : 05 May 2025 16:27
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

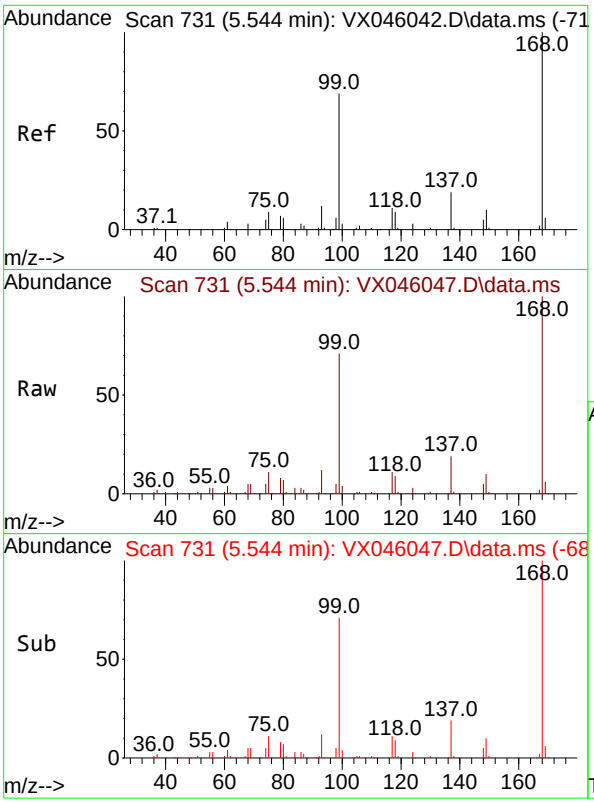
Quant Time: May 06 06:13:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

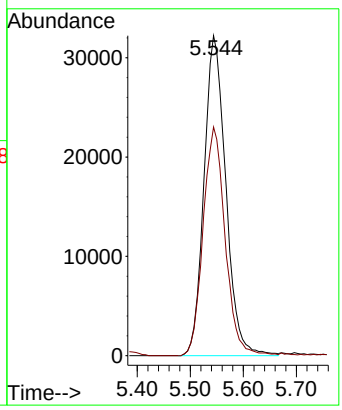




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion:168 Resp: 9204

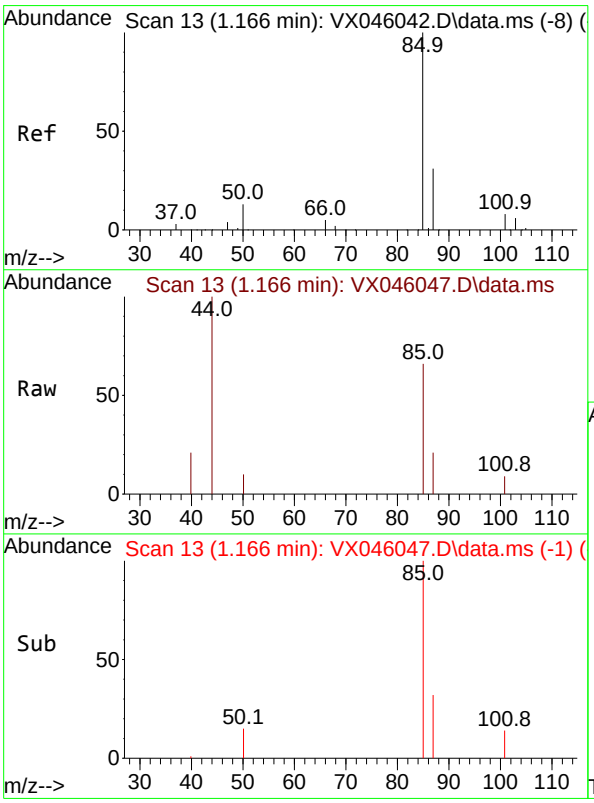
Ion	Ratio	Lower	Upper
168	100		
99	71.5	54.9	82.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

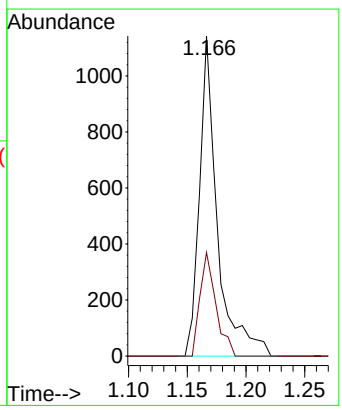
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

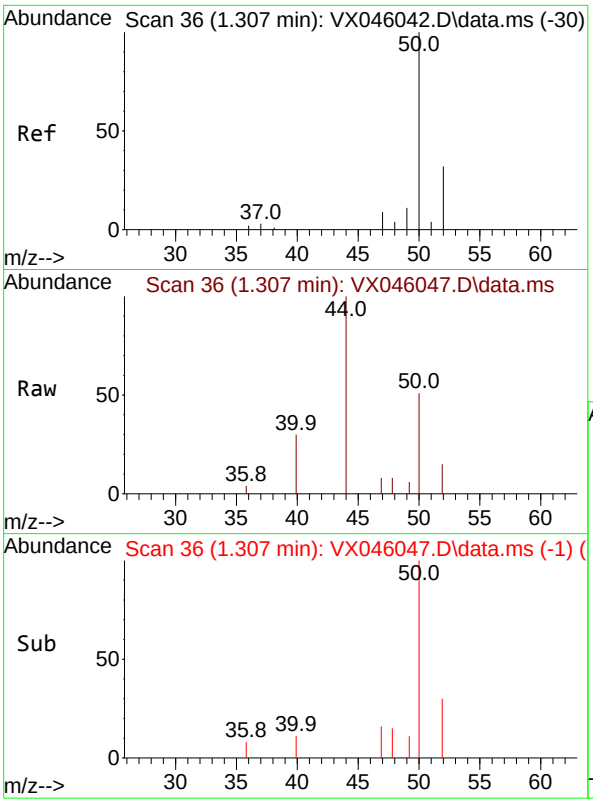


#2
Dichlorodifluoromethane
Concen: 0.596 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 85 Resp: 1211

Ion	Ratio	Lower	Upper
85	100		
87	32.4	15.7	47.1

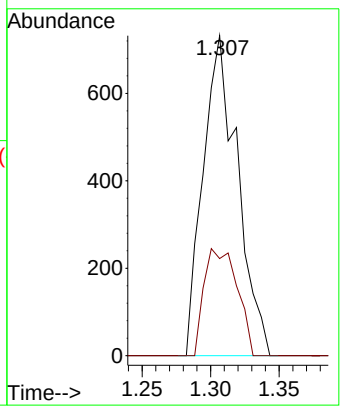




#3
Chloromethane
Concen: 0.639 ug/l
RT: 1.307 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 50 Resp: 127

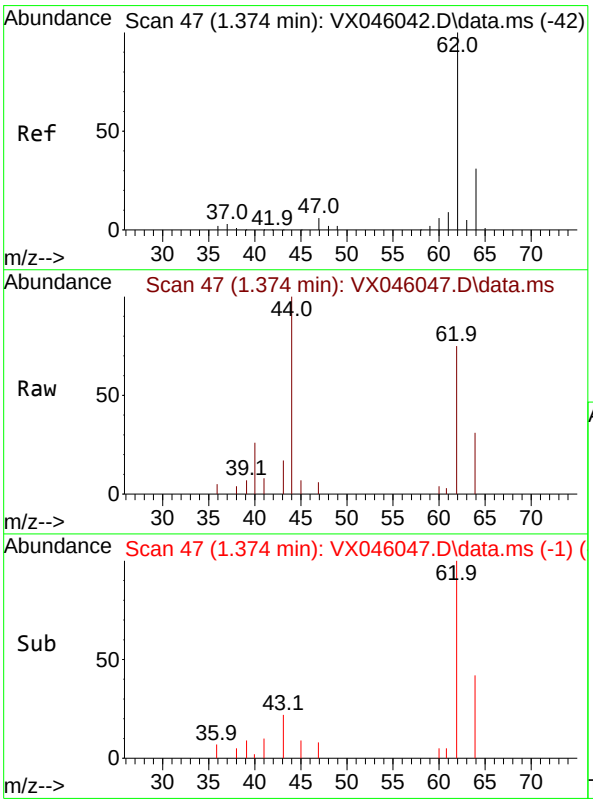
Ion	Ratio	Lower	Upper
50	100		
52	30.3	25.4	38.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

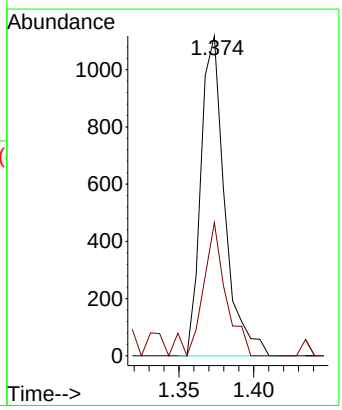
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

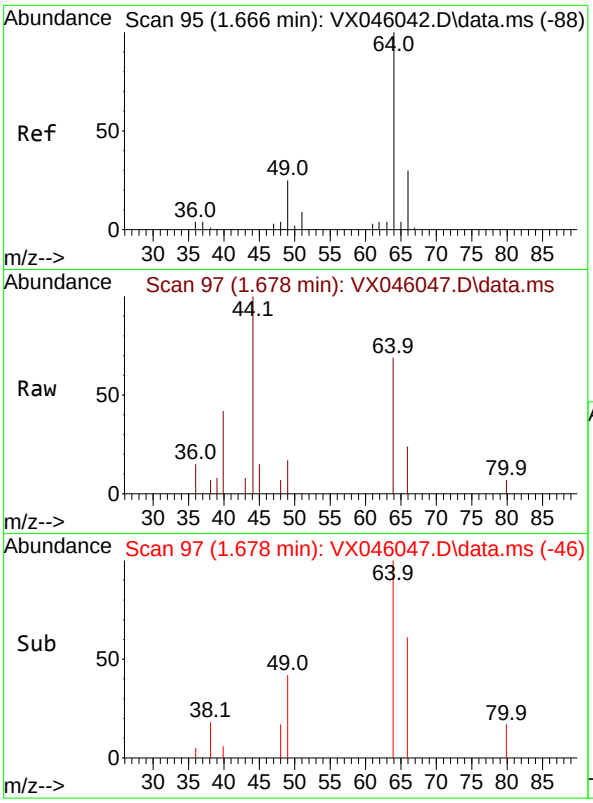


#4
Vinyl Chloride
Concen: 0.707 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 62 Resp: 1239

Ion	Ratio	Lower	Upper
62	100		
64	41.7	25.2	37.8#

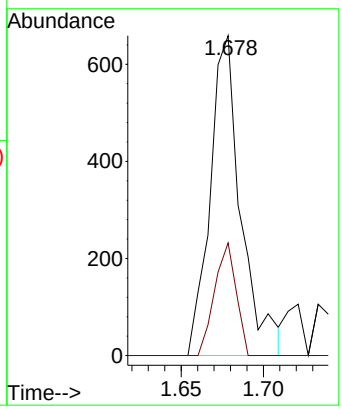




#6
Chloroethane
Concen: 0.951 ug/l
RT: 1.678 min Scan# 9
Delta R.T. 0.012 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 64 Resp: 85

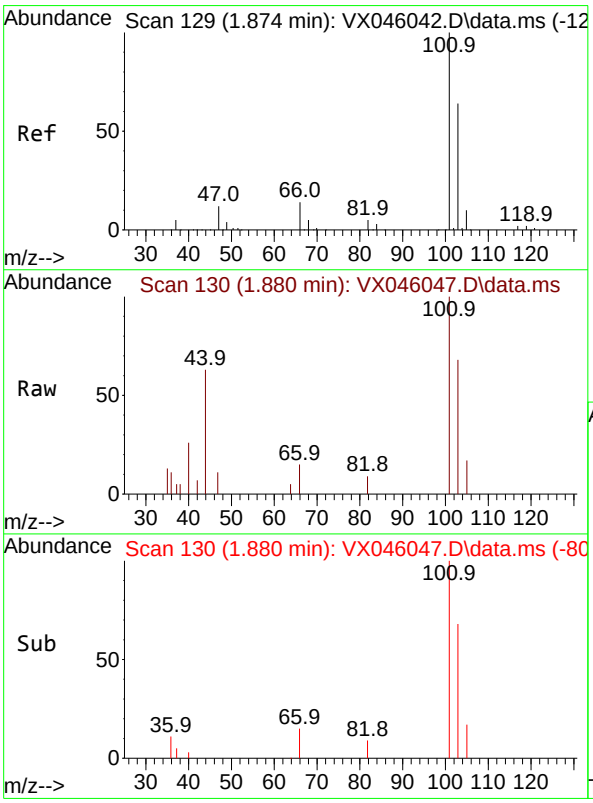
Ion	Ratio	Lower	Upper
64	100		
66	35.2	24.3	36.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

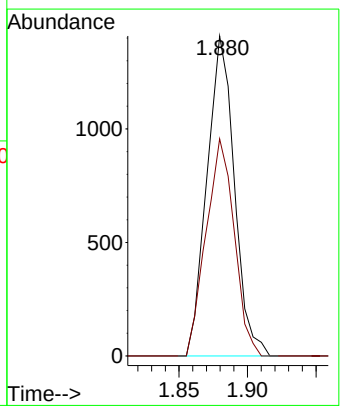
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

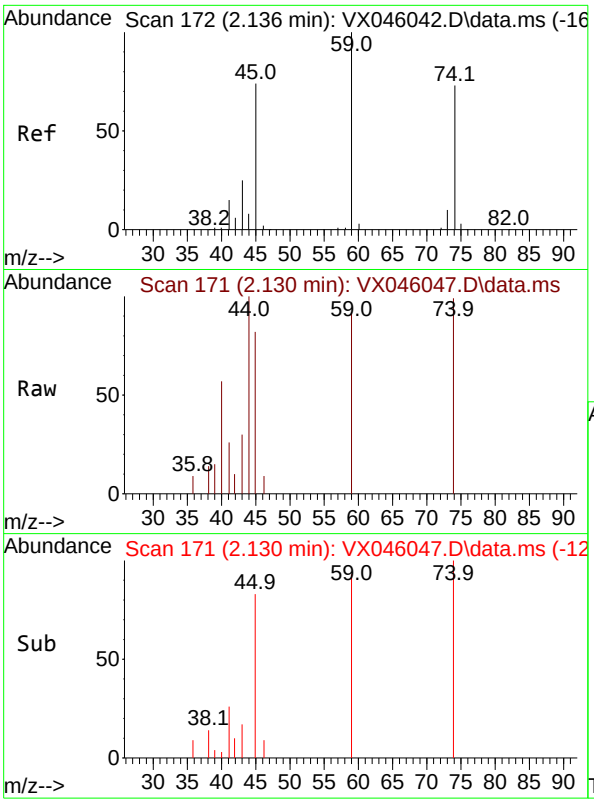


#7
Trichlorofluoromethane
Concen: 0.734 ug/l
RT: 1.880 min Scan# 130
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion:101 Resp: 1959

Ion	Ratio	Lower	Upper
101	100		
103	67.8	51.0	76.4

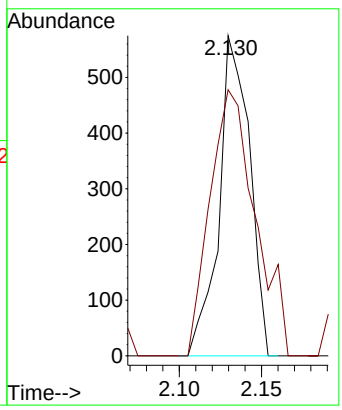




#8
Diethyl Ether
Concen: 0.845 ug/l
RT: 2.130 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 74 Resp: 74

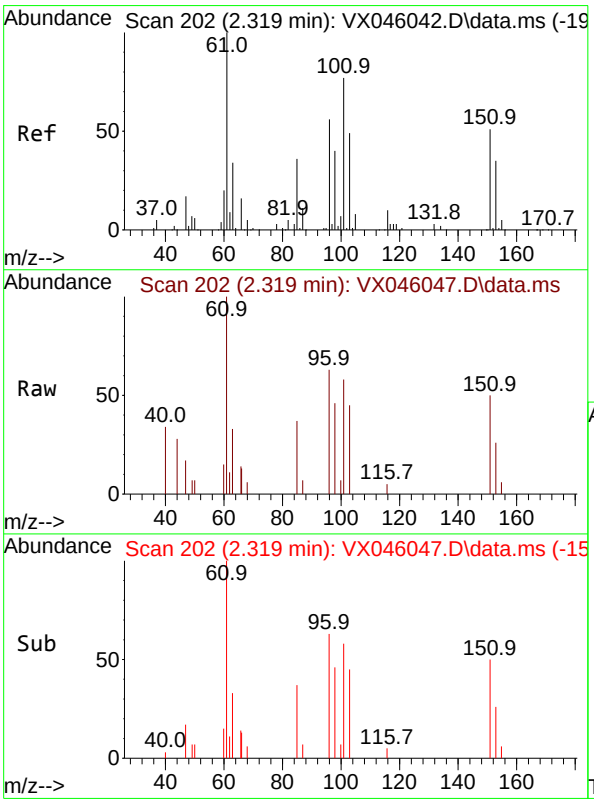
Ion	Ratio	Lower	Upper
74	100		
45	123.6	54.9	164.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

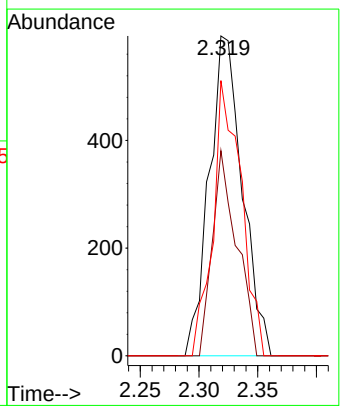
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

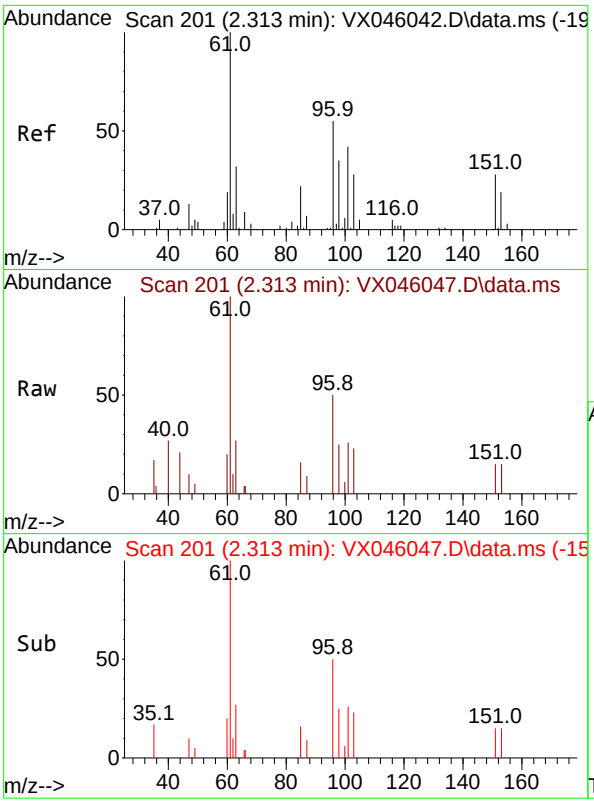


#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.731 ug/l
RT: 2.319 min Scan# 202
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion:101 Resp: 1166

Ion	Ratio	Lower	Upper
101	100		
85	47.3	38.6	58.0
151	73.1	55.2	82.8

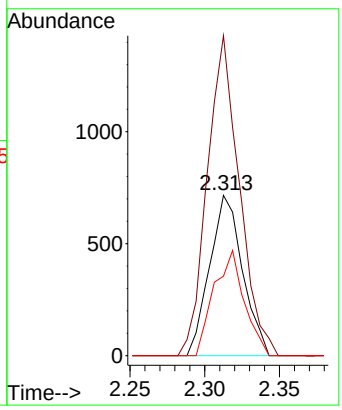




#12
1,1-Dichloroethene
Concen: 0.704 ug/l
RT: 2.313 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 96 Resp: 109

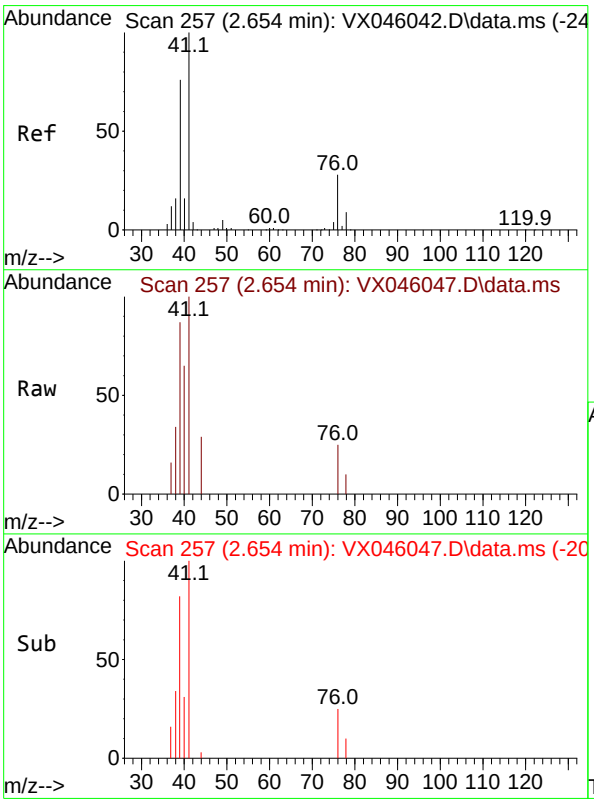
Ion	Ratio	Lower	Upper
96	100		
61	199.6	146.2	219.2
98	49.6	51.0	76.6#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

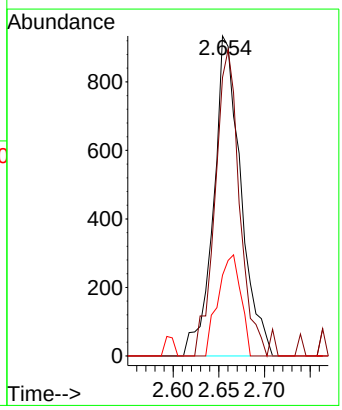
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

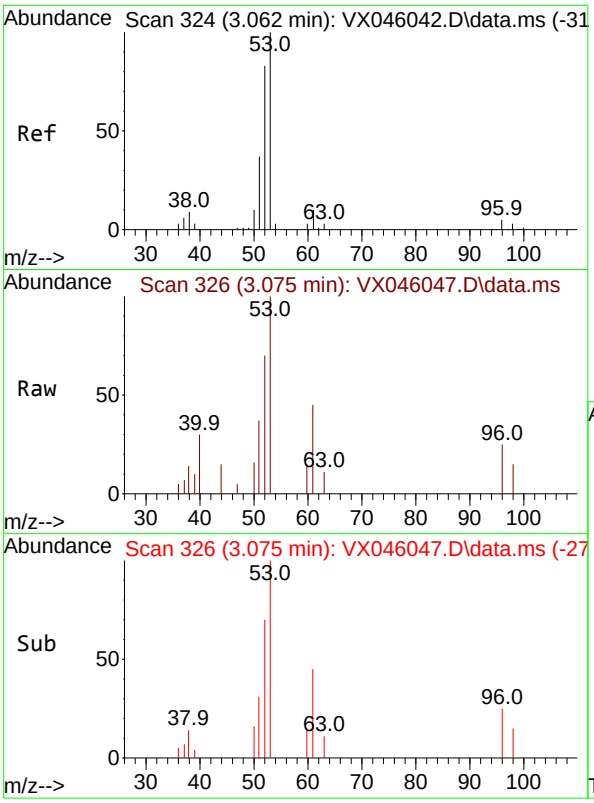


#14
Allyl chloride
Concen: 0.660 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 41 Resp: 1936

Ion	Ratio	Lower	Upper
41	100		
39	85.5	60.6	90.8
76	26.4	24.9	37.3

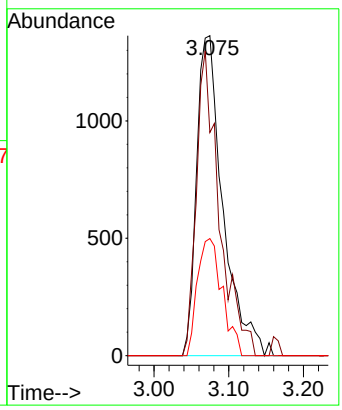




#15
Acrylonitrile
Concen: 3.424 ug/l
RT: 3.075 min Scan# 3
Delta R.T. 0.012 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 53 Resp: 334

Ion	Ratio	Lower	Upper
53	100		
52	82.9	65.3	97.9
51	34.4	29.8	44.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 05/06/2025
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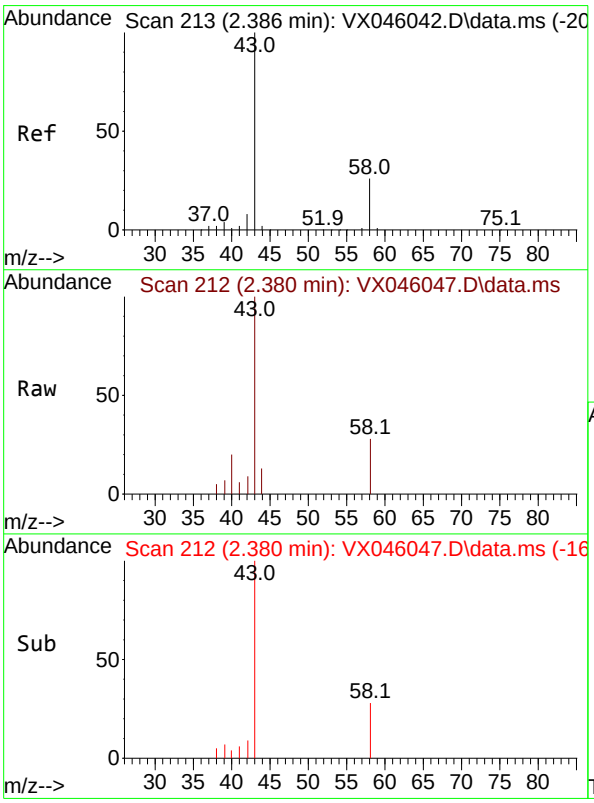
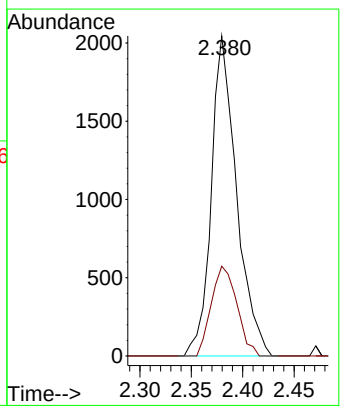
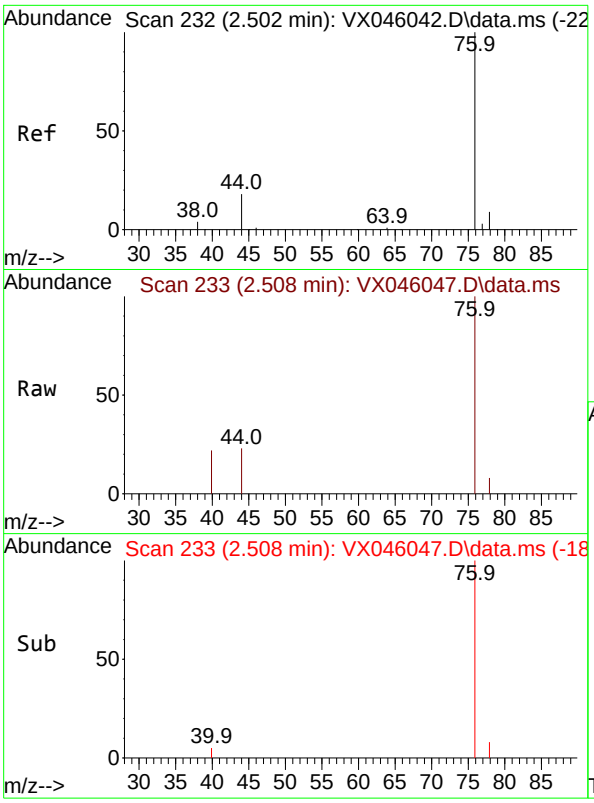


#16
Acetone
Concen: 3.736 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 43 Resp: 3500

Ion	Ratio	Lower	Upper
43	100		
58	28.1	21.2	31.8

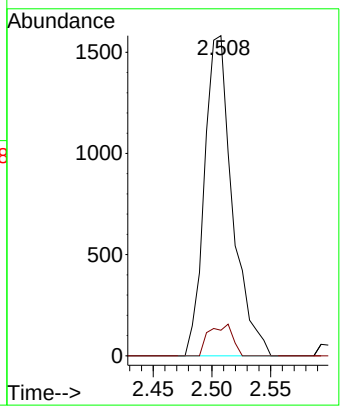




#17
Carbon Disulfide
Concen: 0.728 ug/l
RT: 2.508 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 76 Resp: 261

Ion	Ratio	Lower	Upper
76	100		
78	8.0	7.0	10.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 05/06/2025
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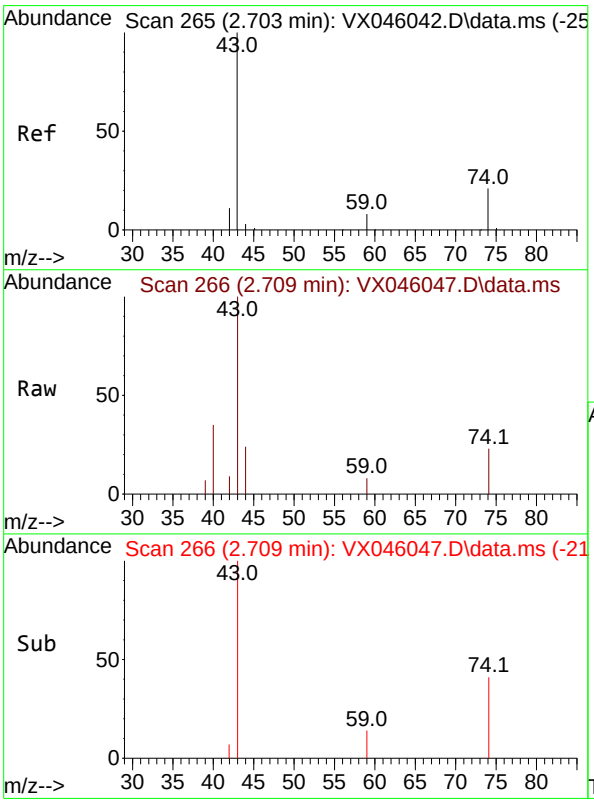
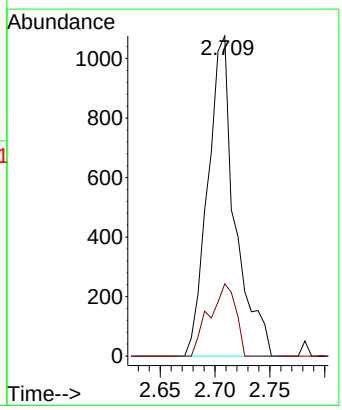
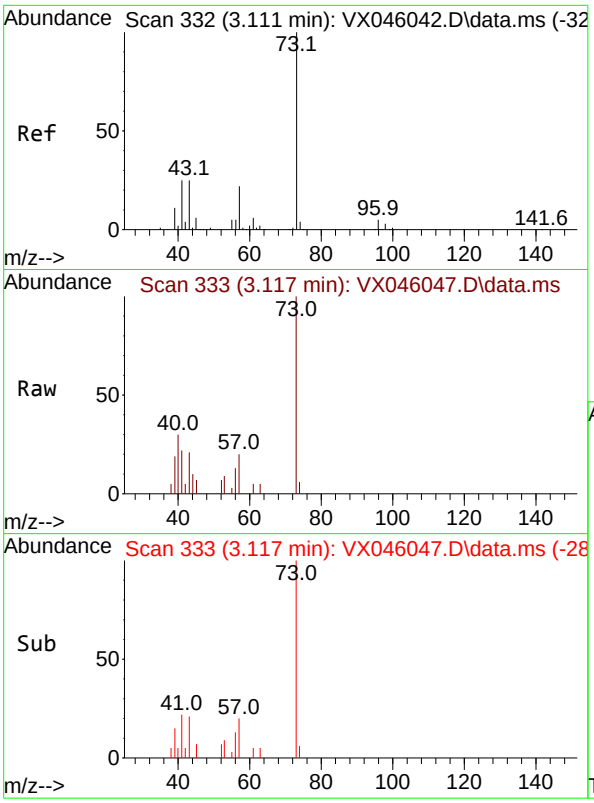


#18
Methyl Acetate
Concen: 0.828 ug/l
RT: 2.709 min Scan# 266
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 43 Resp: 1852

Ion	Ratio	Lower	Upper
43	100		
74	22.0	16.7	25.1

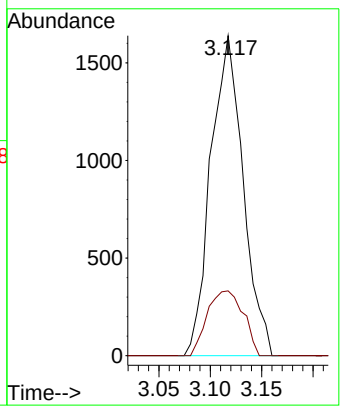




#19
Methyl tert-butyl Ether
Concen: 0.662 ug/l
RT: 3.117 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 73 Resp: 358

Ion	Ratio	Lower	Upper
73	100		
57	20.3	17.7	26.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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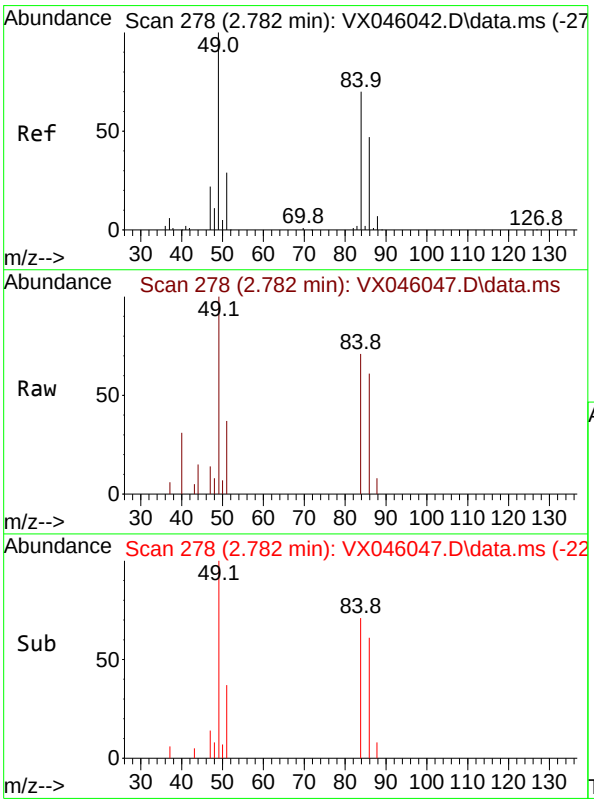
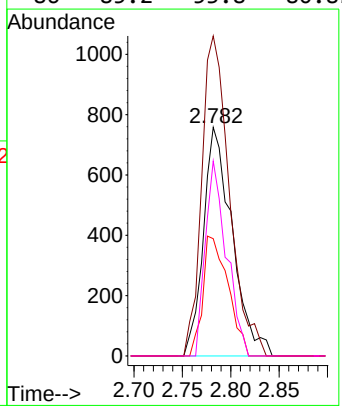
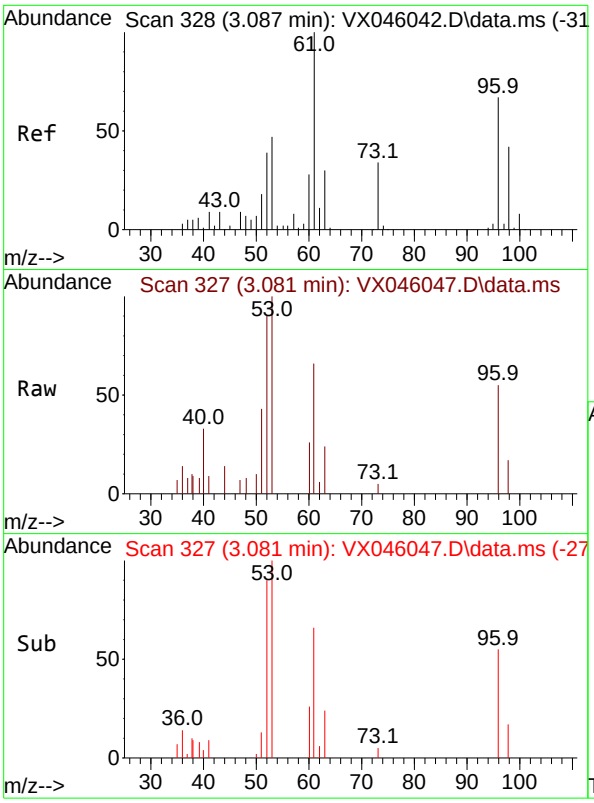


#20
Methylene Chloride
Concen: 0.828 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 84 Resp: 1571

Ion	Ratio	Lower	Upper
84	100		
49	140.0	113.9	170.9
51	51.3	33.5	50.3#
86	85.2	53.8	80.8#

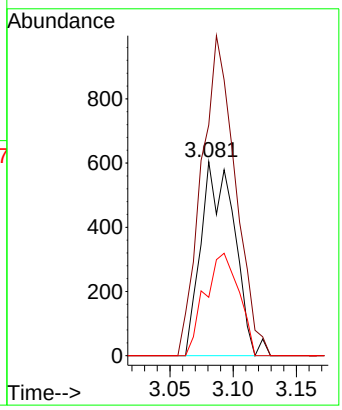




#21
trans-1,2-Dichloroethene
Concen: 0.701 ug/l
RT: 3.081 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 96 Resp: 111

Ion	Ratio	Lower	Upper
96	100		
61	119.0	119.5	179.3#
98	30.1	50.0	75.0#



Instrument :
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ClientSampleId :
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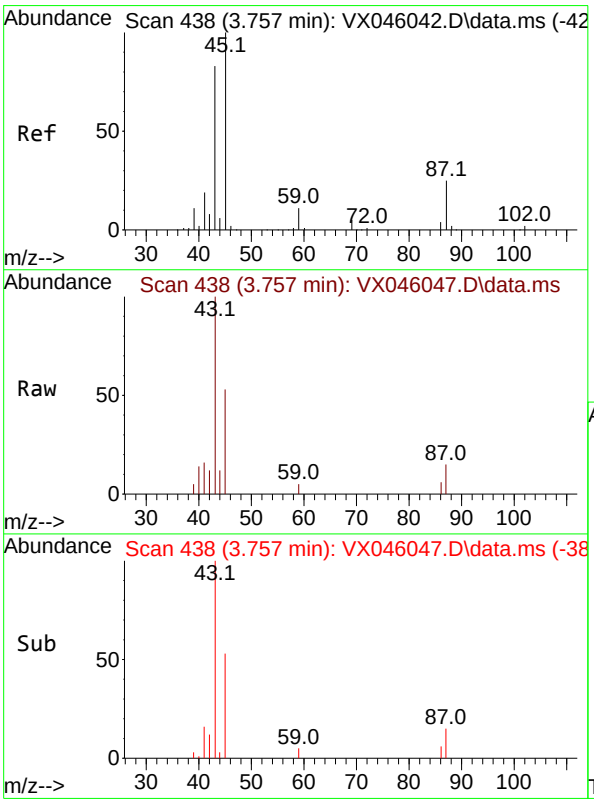
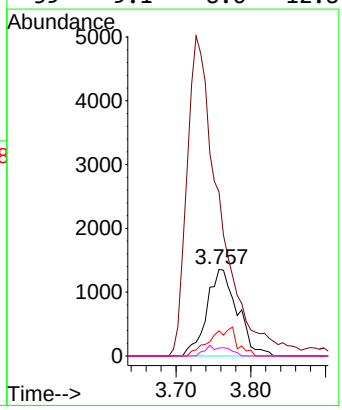
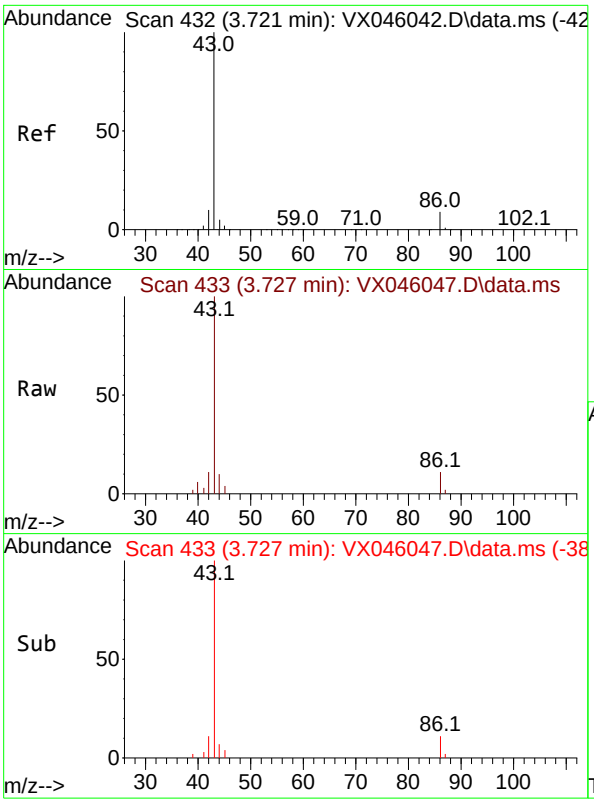


#22
Diisopropyl ether
Concen: 0.703 ug/l
RT: 3.757 min Scan# 438
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 45 Resp: 3857

Ion	Ratio	Lower	Upper
45	100		
43	176.2	66.6	100.0#
87	28.9	19.8	29.6
59	9.1	8.6	12.8





#23
Vinyl Acetate
Concen: 3.154 ug/l
RT: 3.727 min Scan# 4
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 43 Resp: 1528

Ion	Ratio	Lower	Upper
43	100		
86	10.8	7.5	11.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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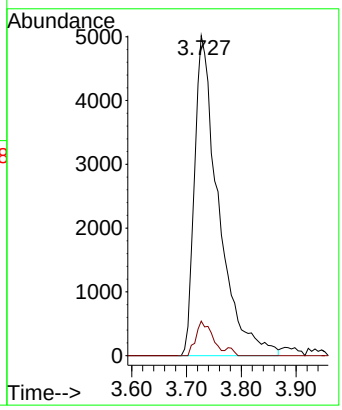
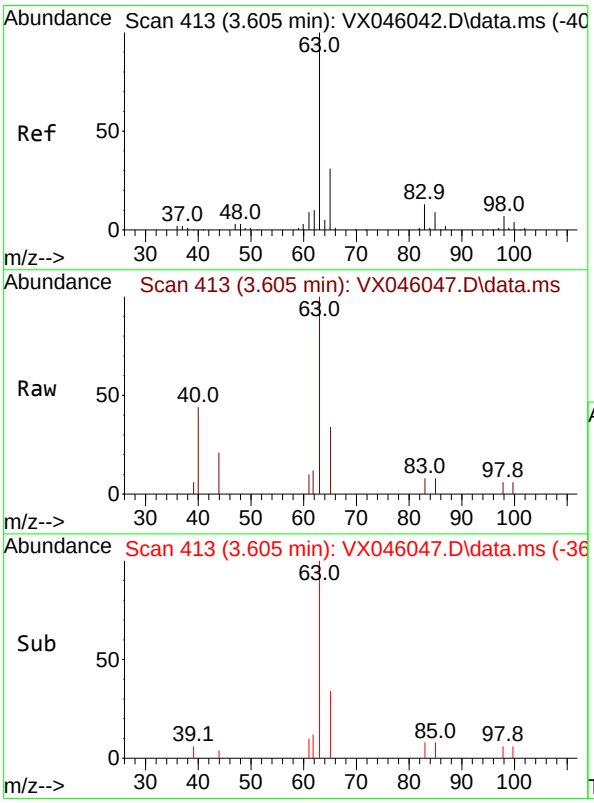
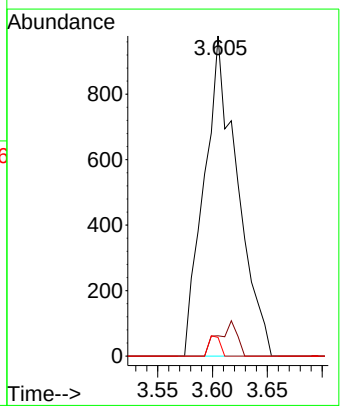


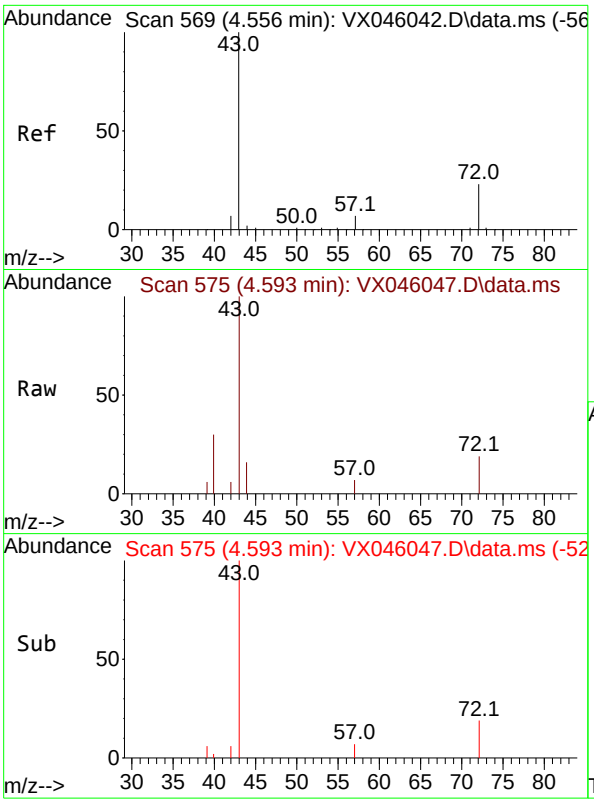


#24
1,1-Dichloroethane
Concen: 0.637 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 63 Resp: 2054

Ion	Ratio	Lower	Upper
63	100		
98	6.3	3.6	10.8
100	5.8	2.1	6.3





#25
2-Butanone
Concen: 3.371 ug/l
RT: 4.593 min Scan# 5
Delta R.T. 0.037 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 43 Resp: 455

Ion	Ratio	Lower	Upper
43	100		
72	19.2	18.4	27.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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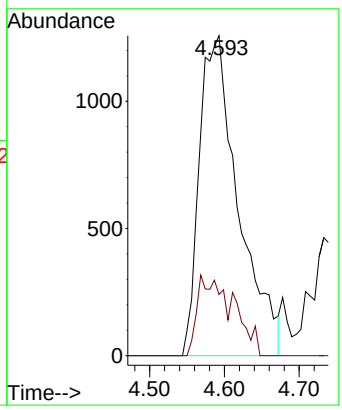
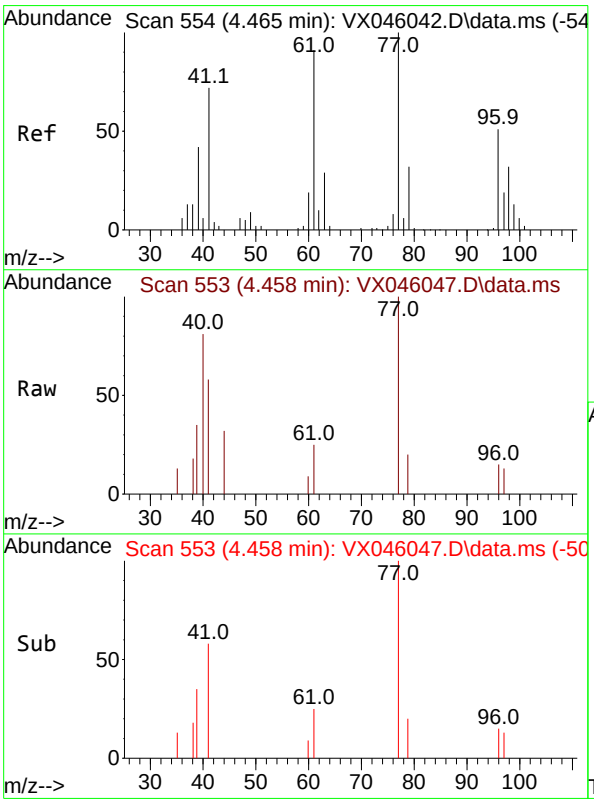
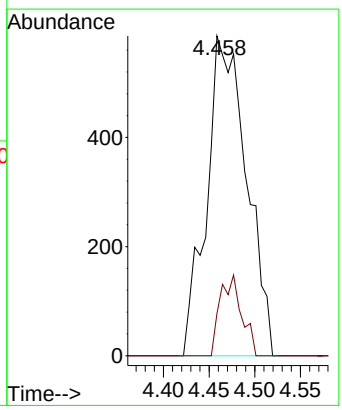


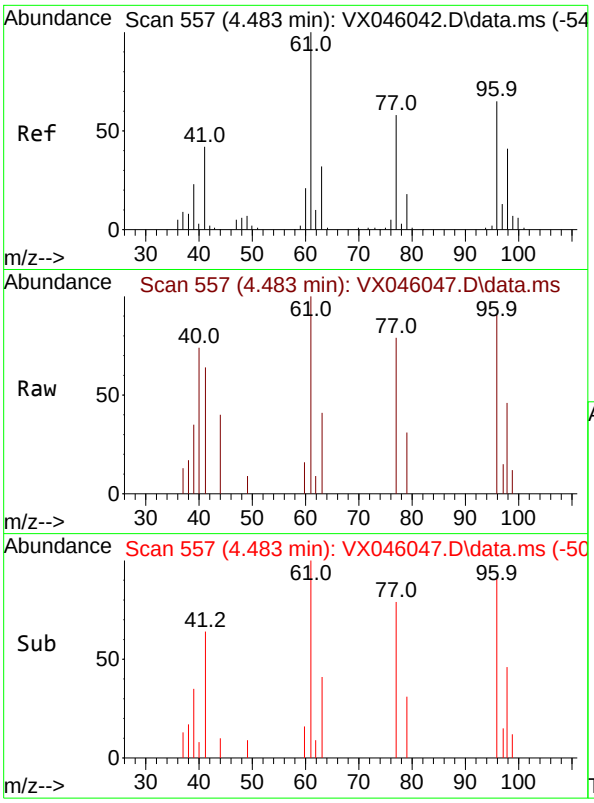


#26
2,2-Dichloropropane
Concen: 0.728 ug/l
RT: 4.458 min Scan# 553
Delta R.T. -0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 77 Resp: 1777

Ion	Ratio	Lower	Upper
77	100		
97	13.7	10.5	31.5

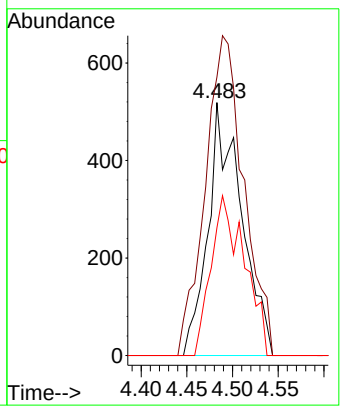




#27
cis-1,2-Dichloroethene
Concen: 0.693 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 96 Resp: 132

Ion	Ratio	Lower	Upper
96	100		
61	145.5	0.0	322.8
98	63.1	0.0	129.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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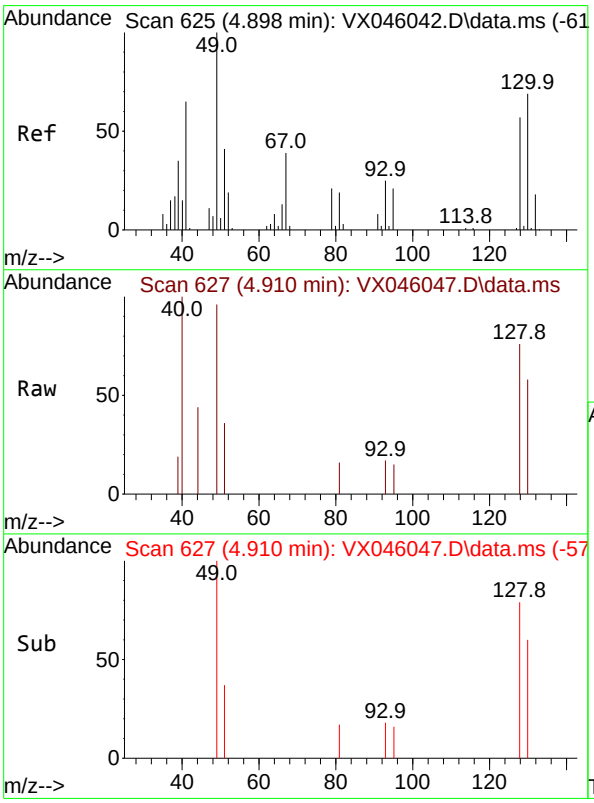
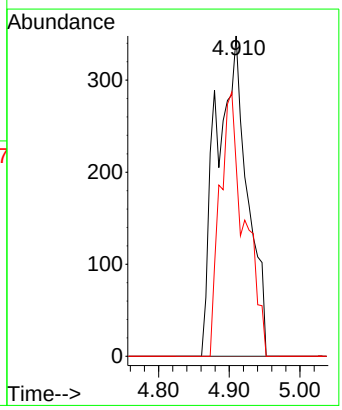
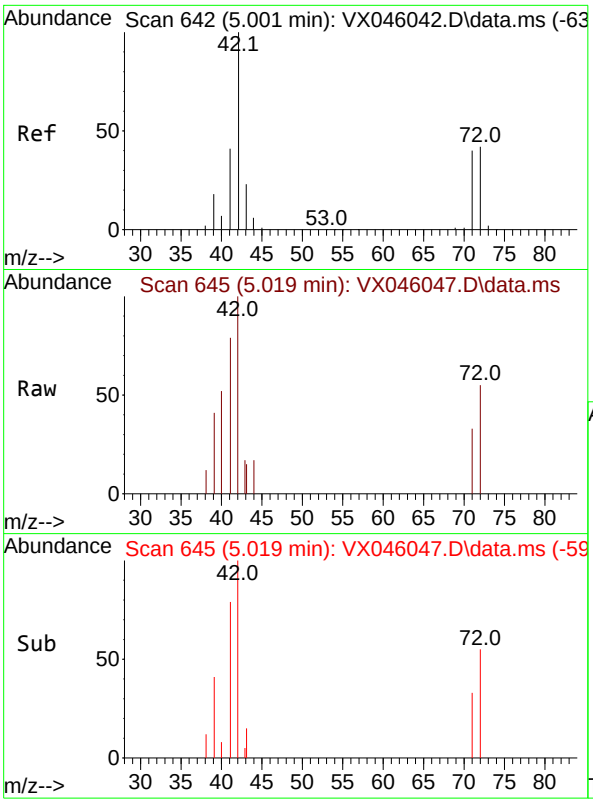


#28
Bromochloromethane
Concen: 0.619 ug/l m
RT: 4.910 min Scan# 627
Delta R.T. 0.012 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 49 Resp: 1061

Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.0
130	65.3	56.2	84.2

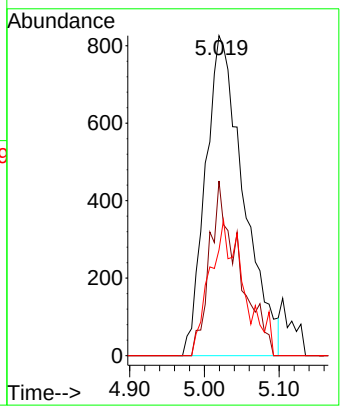




#29
Tetrahydrofuran
Concen: 3.338 ug/l
RT: 5.019 min Scan# 64
Delta R.T. 0.018 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 42 Resp: 293

Ion	Ratio	Lower	Upper
42	100		
72	41.9	33.7	50.5
71	37.7	31.4	47.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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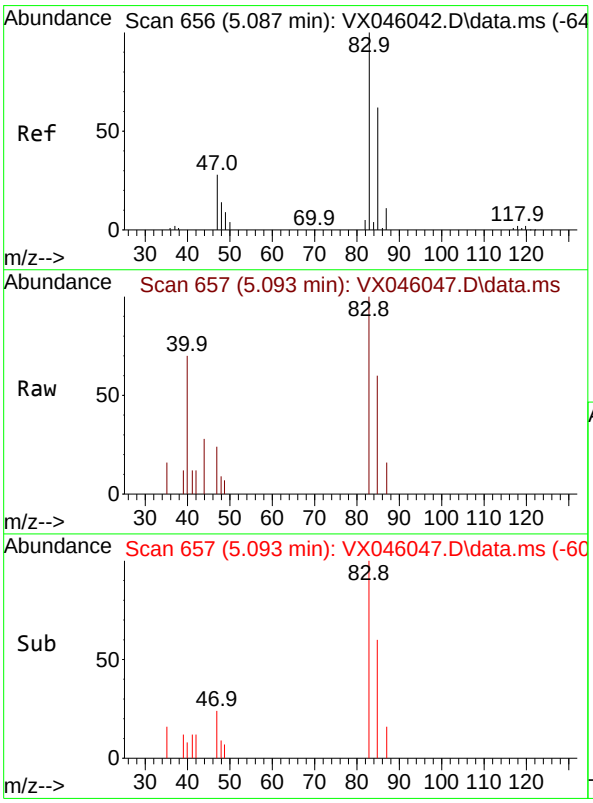
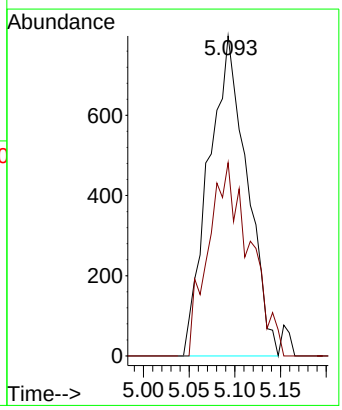
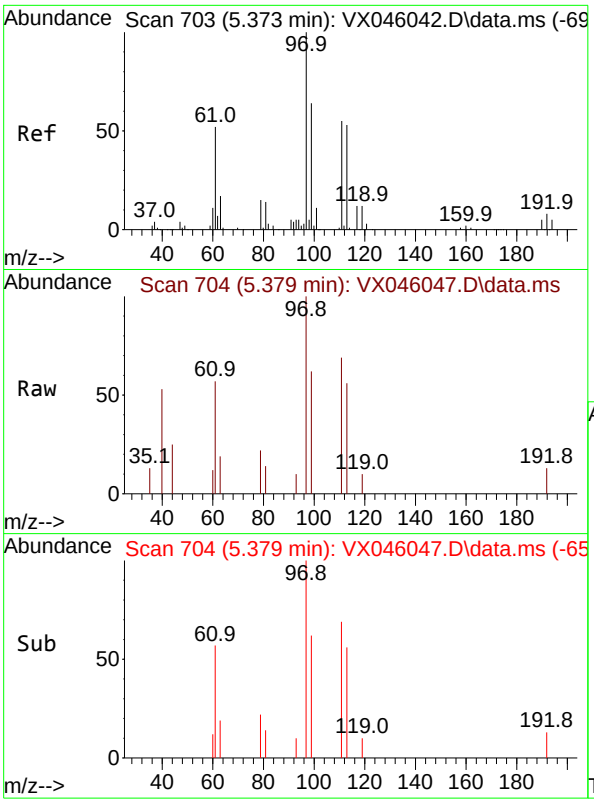


#30
Chloroform
Concen: 0.695 ug/l
RT: 5.093 min Scan# 657
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 83 Resp: 2328

Ion	Ratio	Lower	Upper
83	100		
85	60.4	49.3	73.9

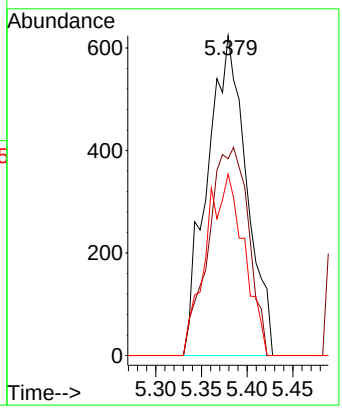




#32
1,1,1-Trichloroethane
Concen: 0.647 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 97 Resp: 186

Ion	Ratio	Lower	Upper
97	100		
99	0.0	51.8	77.6
61	55.0	40.1	60.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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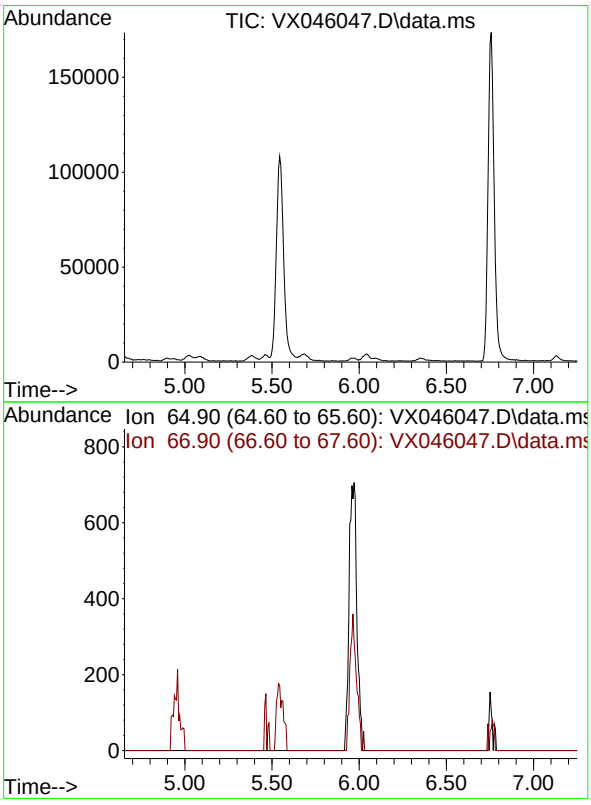
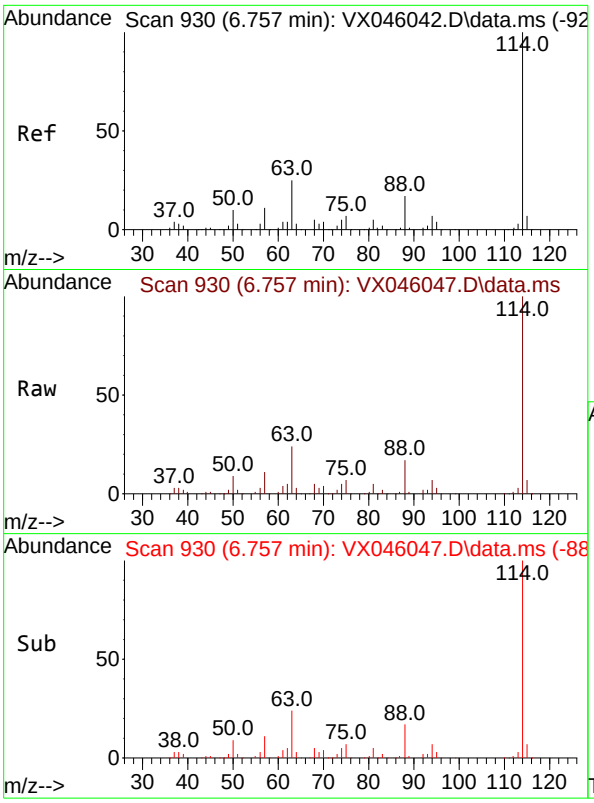


#33
1,2-Dichloroethane-d4
Concen: 0.000 ug/l
Expected RT: 5.95 min

Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 65

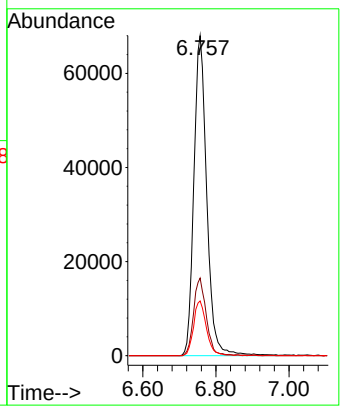
Sig	Exp Ratio
65	100
67	49.5



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion:114 Resp: 16702

Ion	Ratio	Lower	Upper
114	100		
63	24.2	0.0	49.2
88	17.1	0.0	33.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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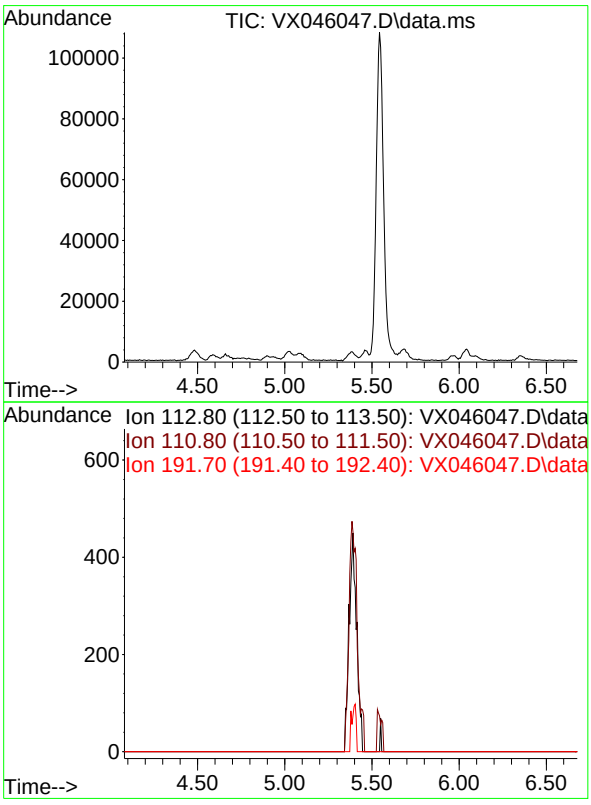
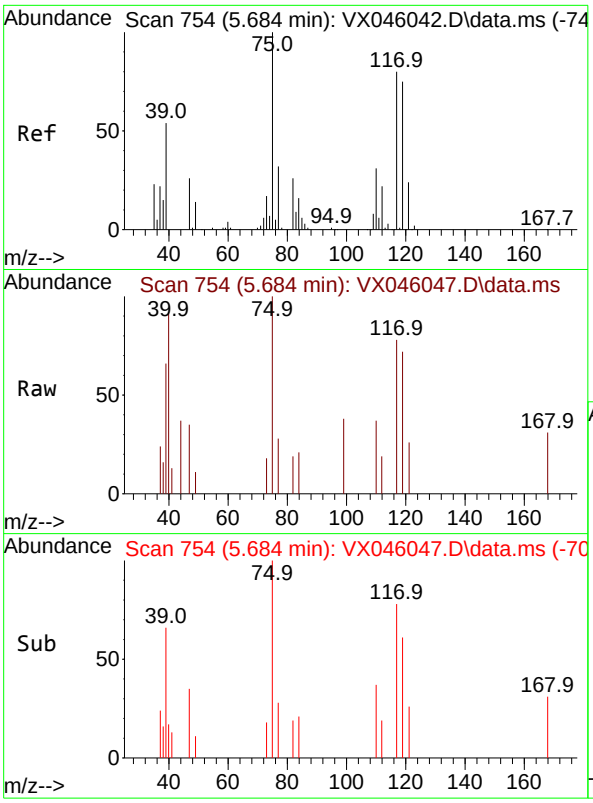


#35
Dibromofluoromethane
Concen: 0.000 ug/l
Expected RT: 5.38 min

Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 113

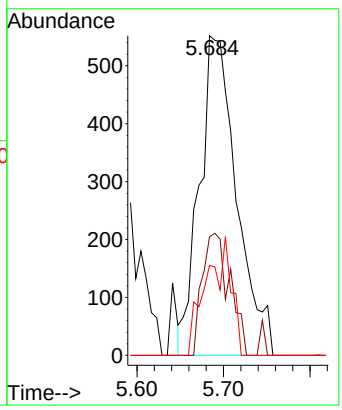
Sig	Exp Ratio
113	100
111	103.9
192	16.6



#36
1,1-Dichloropropene
Concen: 0.758 ug/l
RT: 5.684 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 75 Resp: 164

Ion	Ratio	Lower	Upper
75	100		
110	28.2	16.3	48.9
77	15.8	24.3	36.5#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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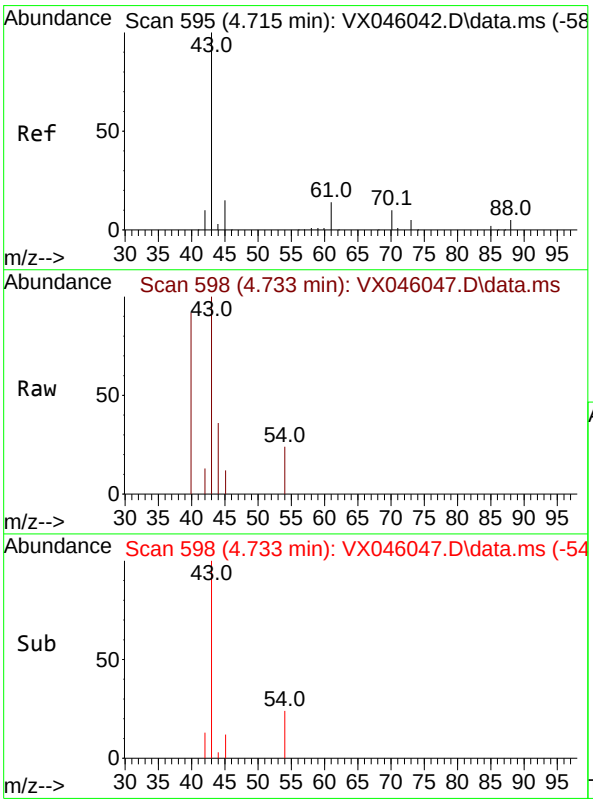
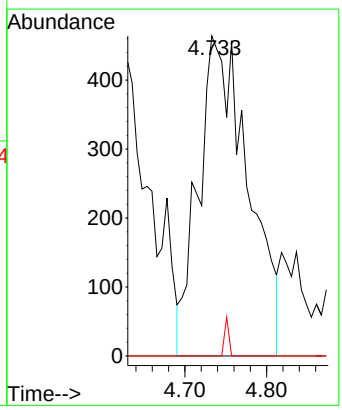
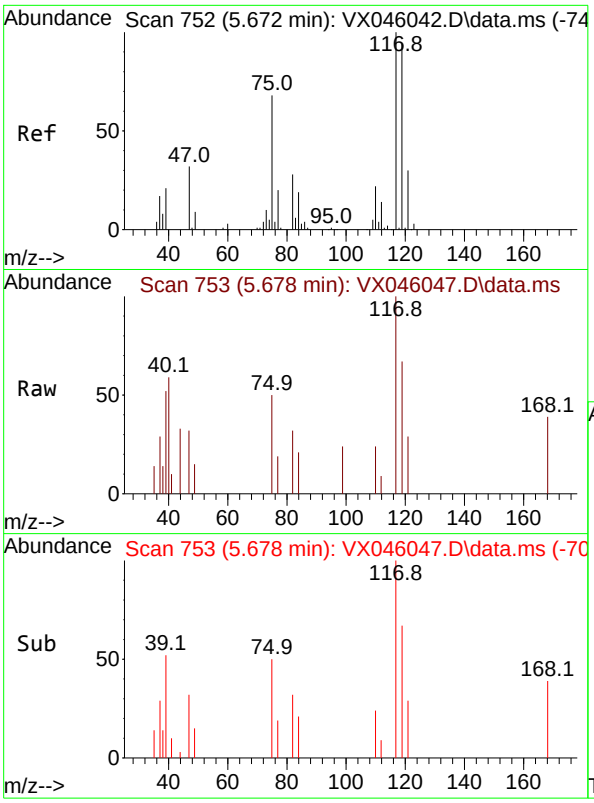


#37
Ethyl Acetate
Concen: 0.717 ug/l m
RT: 4.733 min Scan# 598
Delta R.T. 0.018 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 43 Resp: 1956

Ion	Ratio	Lower	Upper
43	100		
61	0.0	10.3	15.5#
70	1.0	7.9	11.9#

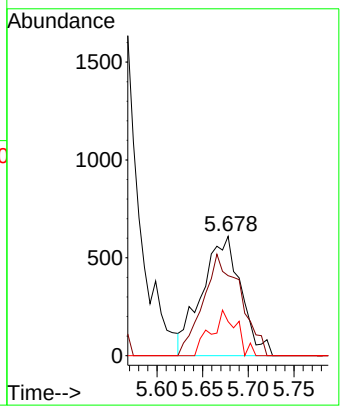




#38
Carbon Tetrachloride
Concen: 0.724 ug/l
RT: 5.678 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion:117 Resp: 180

Ion	Ratio	Lower	Upper
117	100		
119	67.0	75.2	112.8
121	28.5	24.2	36.4



Instrument :
MSVOA_X
ClientSampleId :
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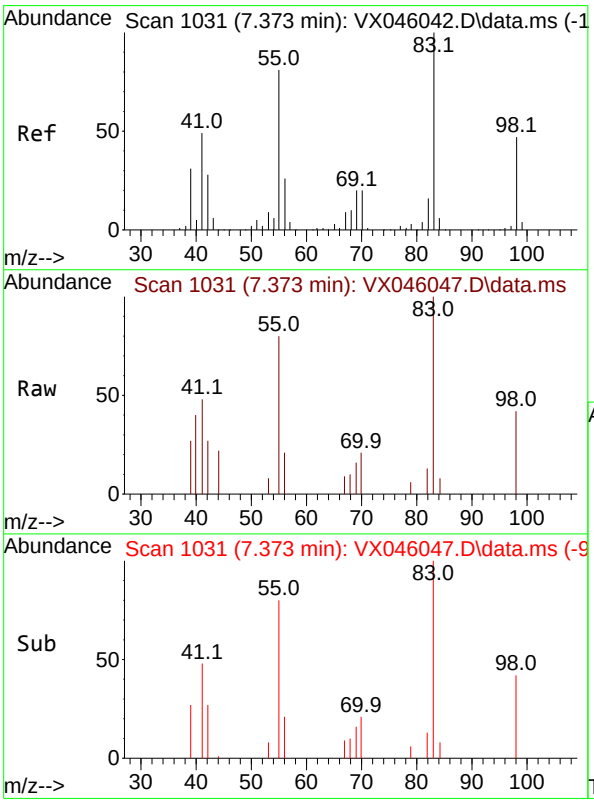
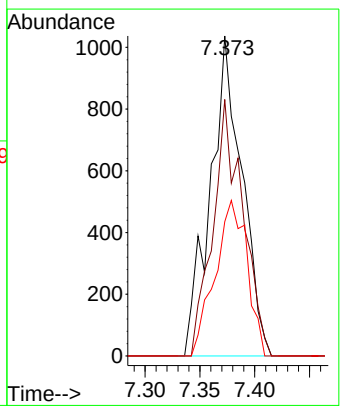
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

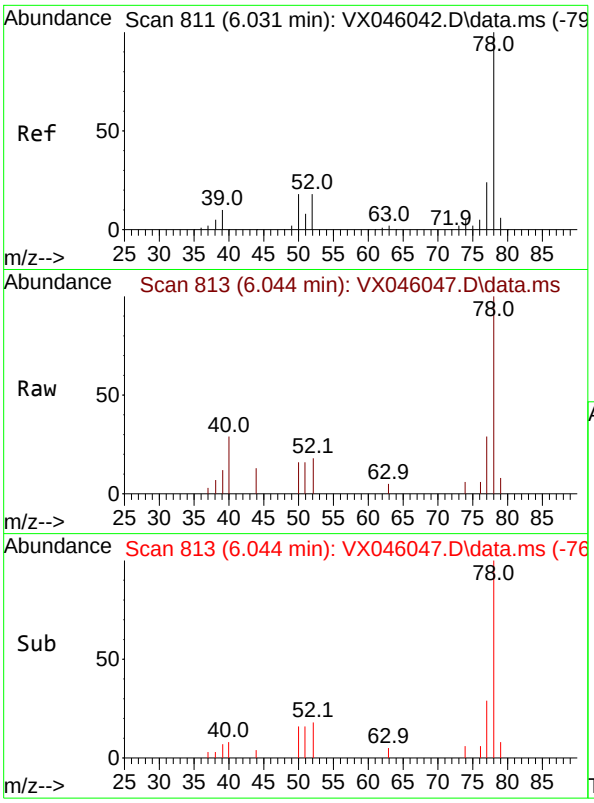


#39
Methylcyclohexane
Concen: 0.770 ug/l
RT: 7.373 min Scan# 1031
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 83 Resp: 2096

Ion	Ratio	Lower	Upper
83	100		
55	80.1	64.7	97.1
98	41.9	37.4	56.2





#40
Benzene
Concen: 0.668 ug/l
RT: 6.044 min Scan# 8
Delta R.T. 0.012 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 78 Resp: 450

Ion	Ratio	Lower	Upper
78	100		
77	29.1	19.0	28.4#

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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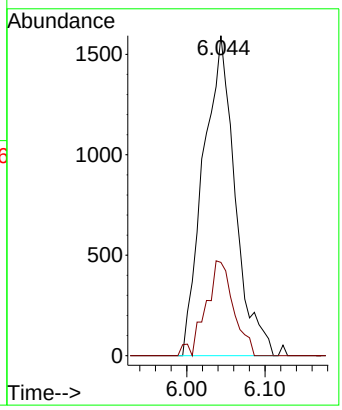
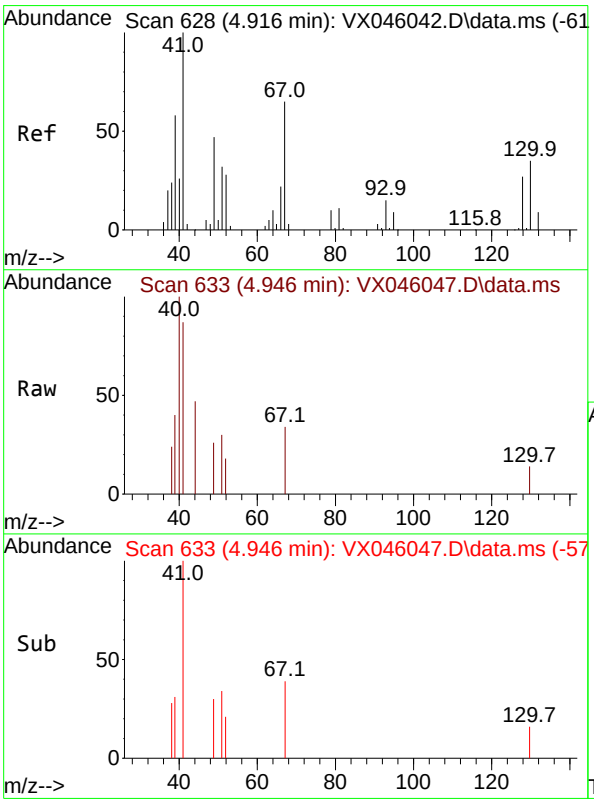
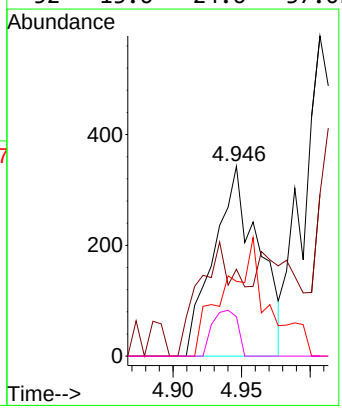


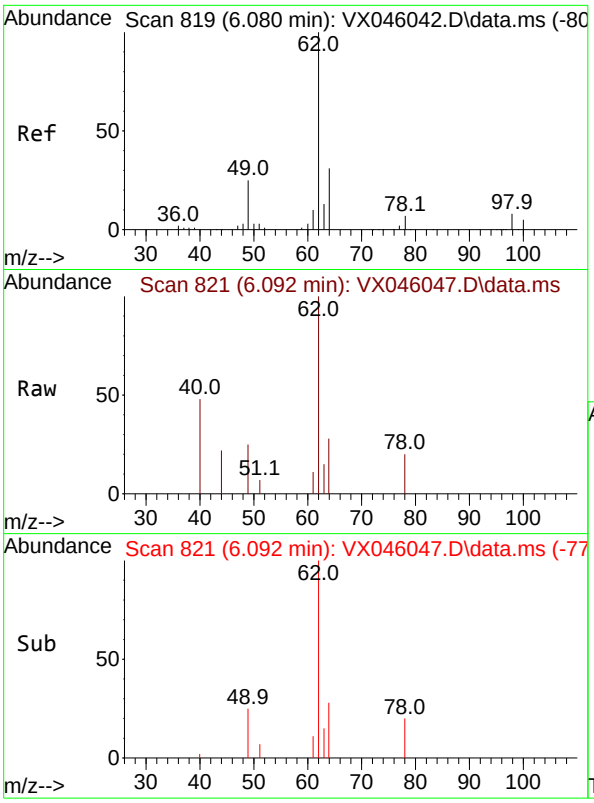


#41
Methacrylonitrile
Concen: 0.513 ug/l
RT: 4.946 min Scan# 633
Delta R.T. 0.030 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 41 Resp: 778

Ion	Ratio	Lower	Upper
41	100		
39	51.7	47.2	70.8
67	0.0	50.7	76.1#
52	13.6	24.6	37.0#

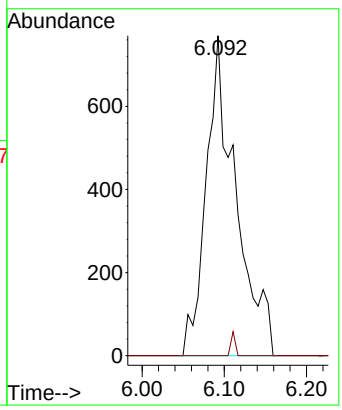




#42
1,2-Dichloroethane
Concen: 0.694 ug/l
RT: 6.092 min Scan# 8
Delta R.T. 0.012 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 62 Resp: 193

Ion	Ratio	Lower	Upper
62	100		
98	1.1	0.0	15.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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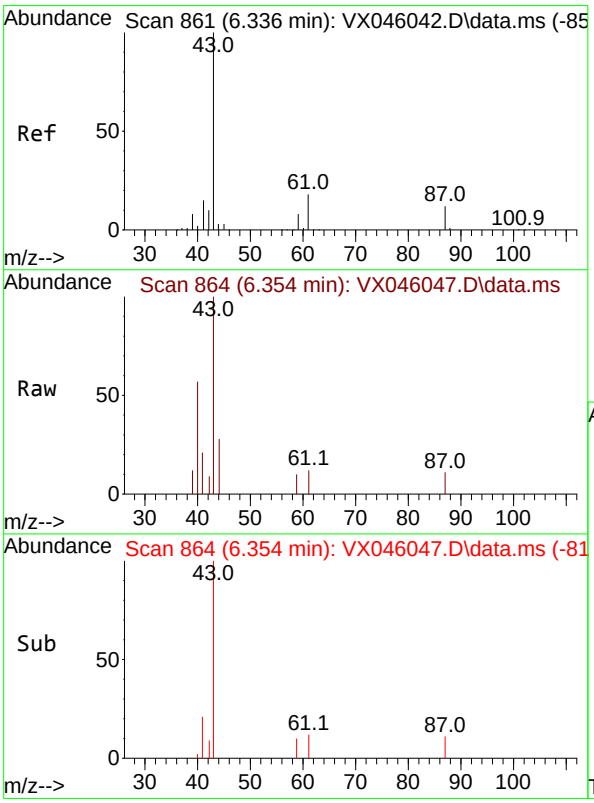
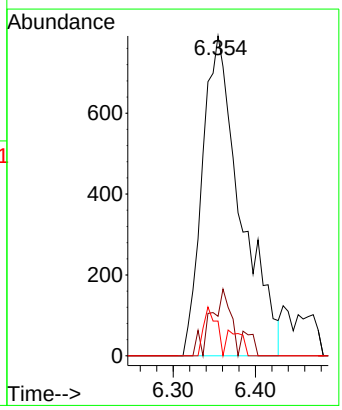
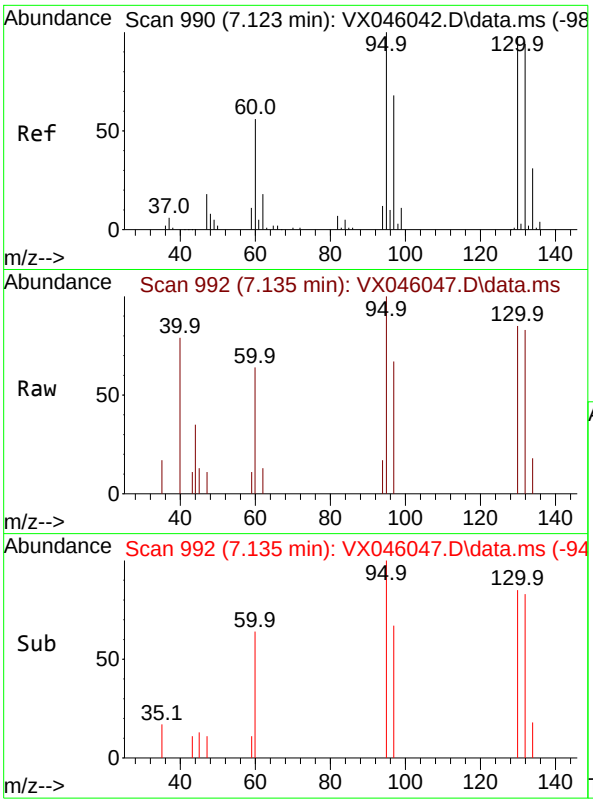


#43
Isopropyl Acetate
Concen: 0.612 ug/l
RT: 6.354 min Scan# 864
Delta R.T. 0.018 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 43 Resp: 2553

Ion	Ratio	Lower	Upper
43	100		
61	10.7	14.3	21.5#
87	3.2	9.5	14.3#

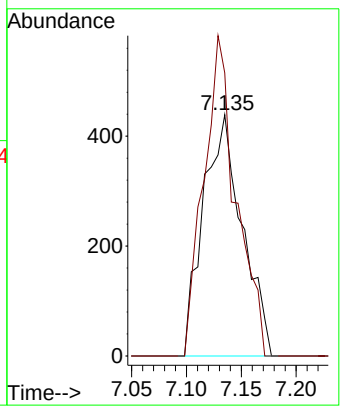




#44
Trichloroethene
Concen: 0.680 ug/l
RT: 7.135 min Scan# 9
Delta R.T. 0.012 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion:130 Resp: 108

Ion	Ratio	Lower	Upper
130	100		
95	117.3	0.0	204.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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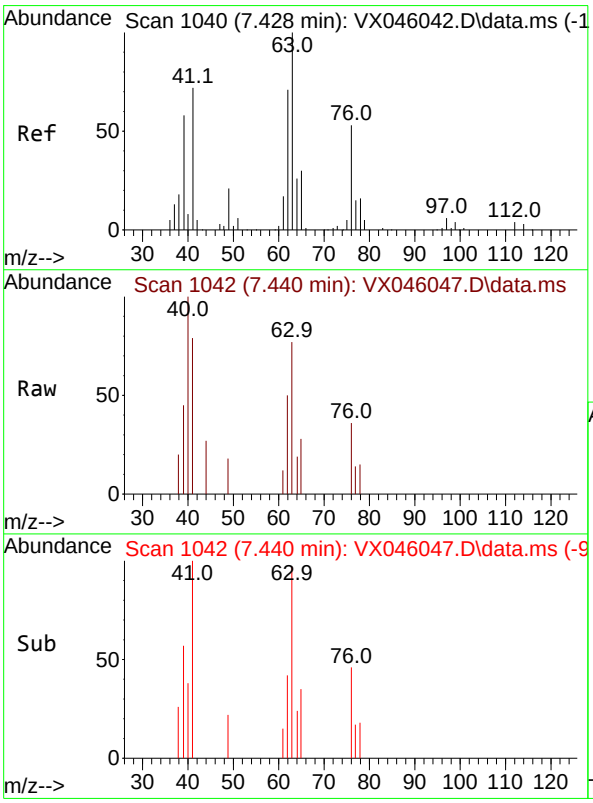
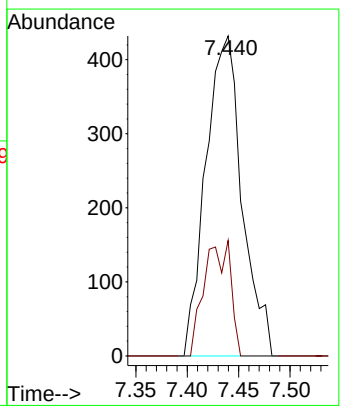
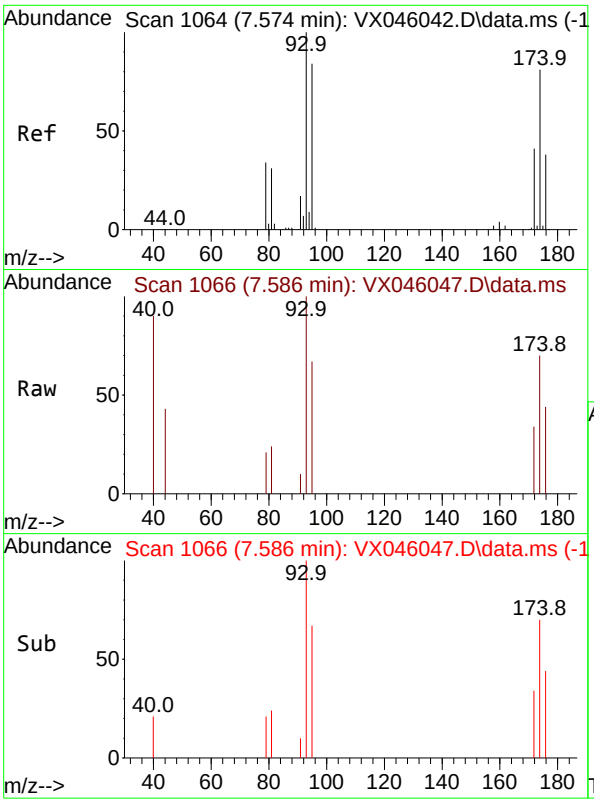


#45
1,2-Dichloropropane
Concen: 0.633 ug/l
RT: 7.440 min Scan# 1042
Delta R.T. 0.012 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 63 Resp: 1059

Ion	Ratio	Lower	Upper
63	100		
65	36.1	24.1	36.1

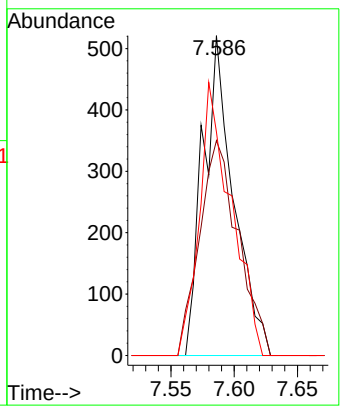




#46
Dibromomethane
Concen: 0.667 ug/l
RT: 7.586 min Scan# 1
Delta R.T. 0.012 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 93 Resp: 88

Ion	Ratio	Lower	Upper
93	100		
95	84.5	65.6	98.4
174	88.5	68.2	102.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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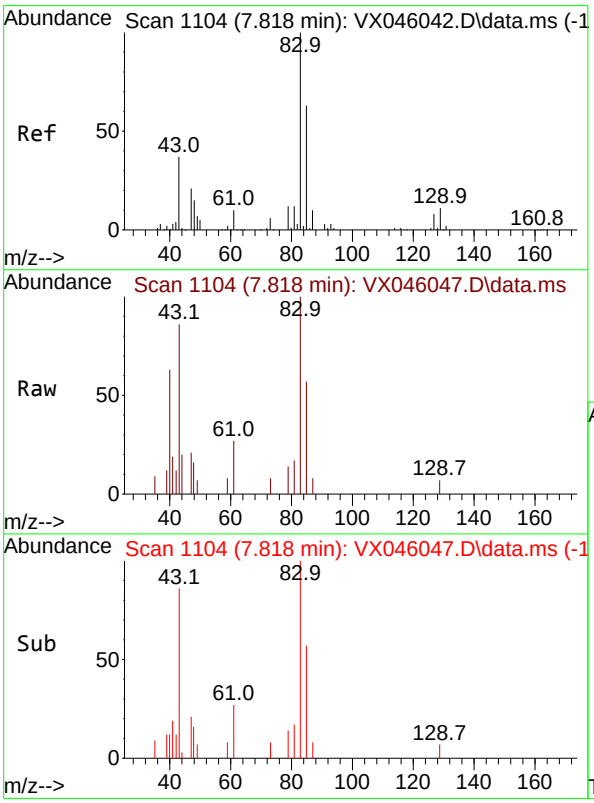
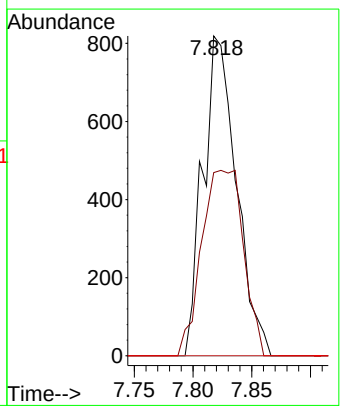
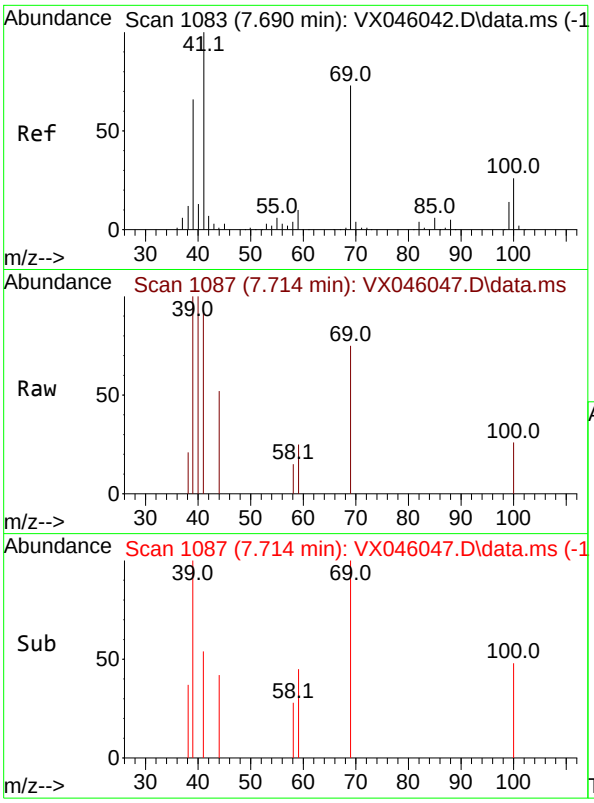


#47
Bromodichloromethane
Concen: 0.633 ug/l
RT: 7.818 min Scan# 1104
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 83 Resp: 1620

Ion	Ratio	Lower	Upper
83	100		
85	57.3	50.5	75.7
127	0.0	6.5	9.7#

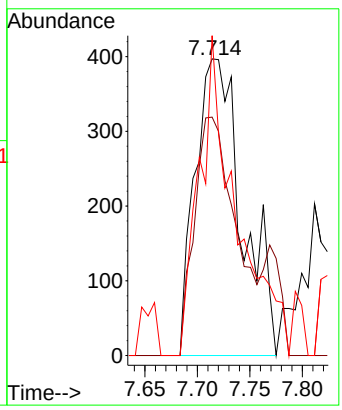




#48
Methyl methacrylate
Concen: 0.577 ug/l m
RT: 7.714 min Scan# 1
Delta R.T. 0.024 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 41 Resp: 123

Ion	Ratio	Lower	Upper
41	100		
69	70.6	58.5	87.7
39	84.8	51.7	77.5#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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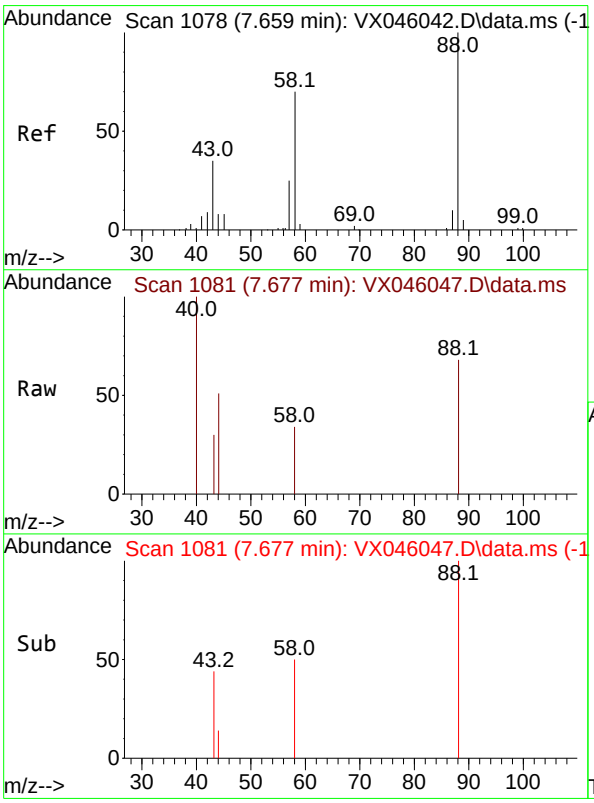
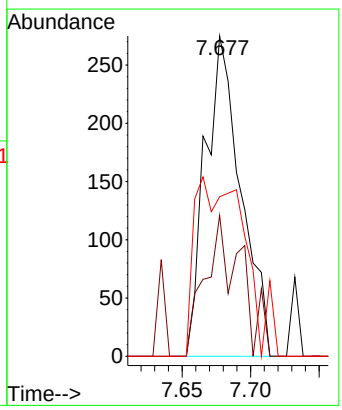
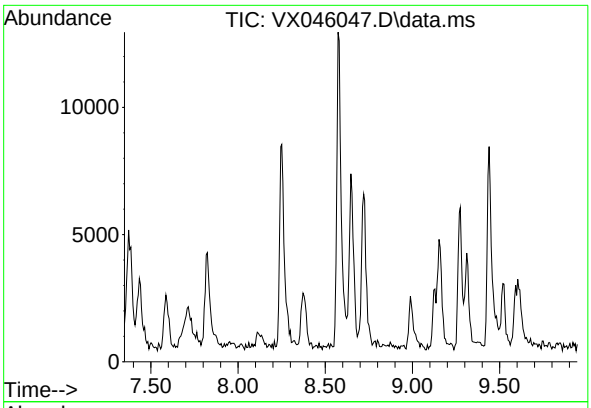


#49
1,4-Dioxane
Concen: 11.703 ug/l
RT: 7.677 min Scan# 1081
Delta R.T. 0.018 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 88 Resp: 498

Ion	Ratio	Lower	Upper
88	100		
43	44.4	33.4	50.2
58	30.3	58.6	88.0#





#50
Toluene-d8
Concen: 0.000 ug/l
Expected RT: 8.65 min

Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 98

Sig	Exp Ratio
98	100
100	66.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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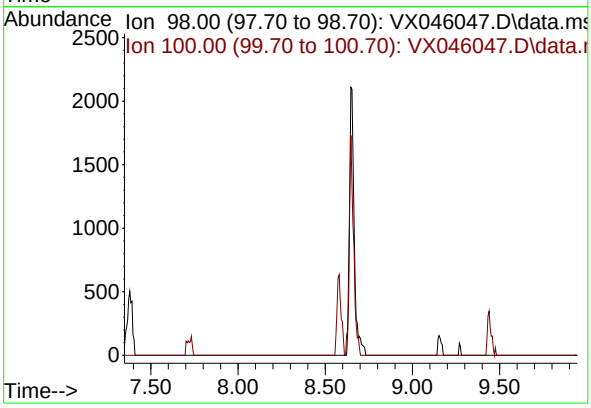
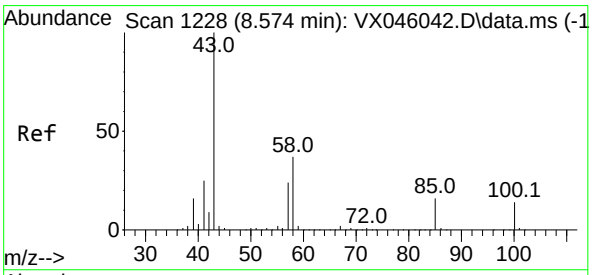
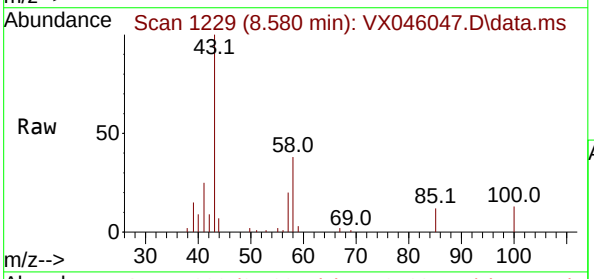


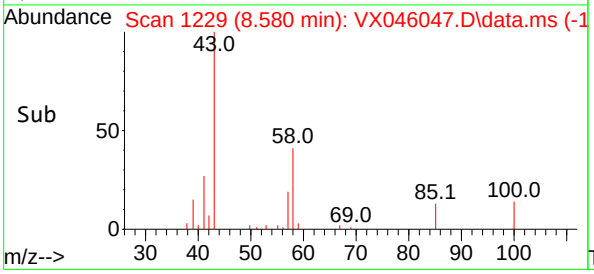


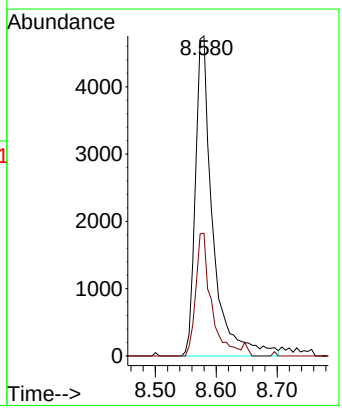
#51
4-Methyl-2-Pentanone
Concen: 3.430 ug/l
RT: 8.580 min Scan# 1229
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

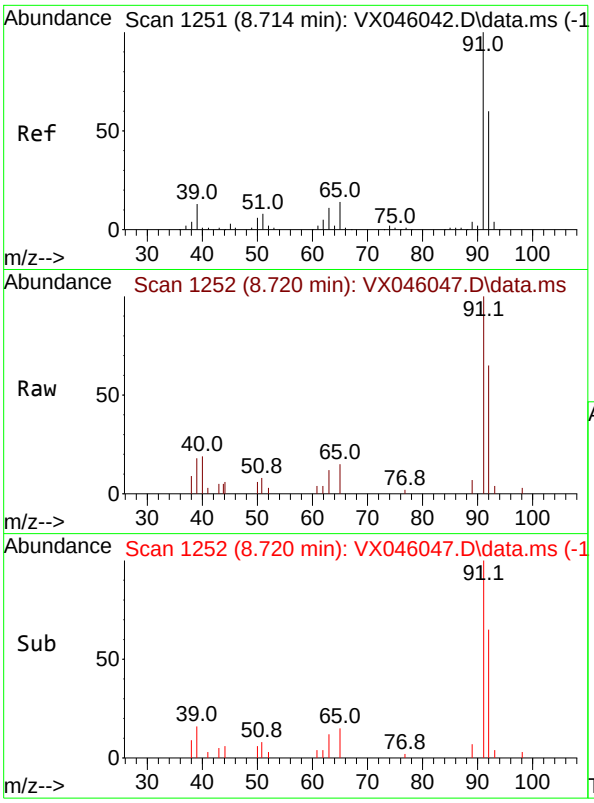
Tgt Ion: 43 Resp: 9378

Ion	Ratio	Lower	Upper
43	100		
58	34.4	28.9	43.3





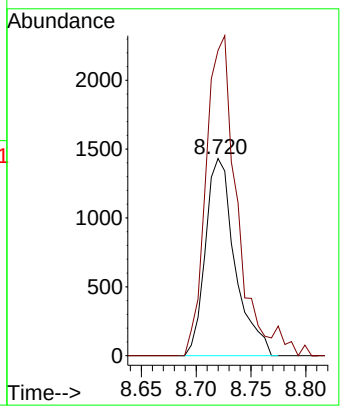




#52
Toluene
Concen: 0.672 ug/l
RT: 8.720 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 92 Resp: 268

Ion	Ratio	Lower	Upper
92	100		
91	165.7	136.6	205.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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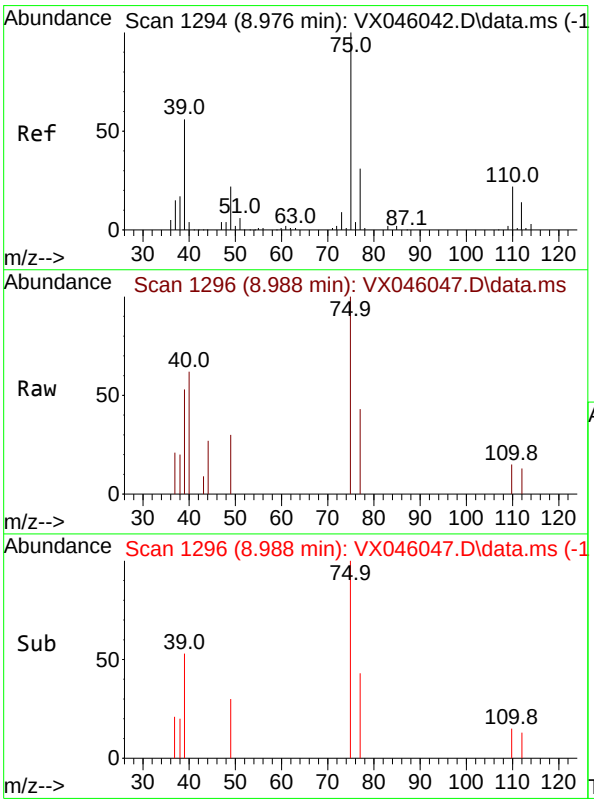
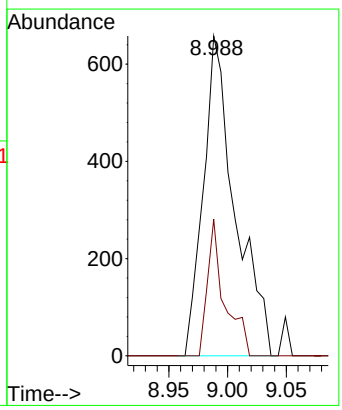
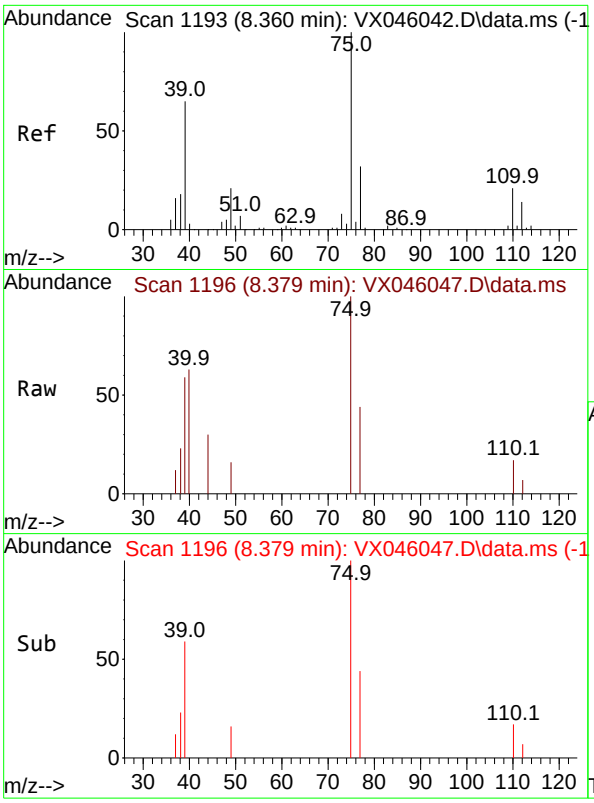


#53
t-1,3-Dichloropropene
Concen: 0.576 ug/l
RT: 8.988 min Scan# 1296
Delta R.T. 0.012 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 75 Resp: 1238

Ion	Ratio	Lower	Upper
75	100		
77	42.7	25.0	37.6#

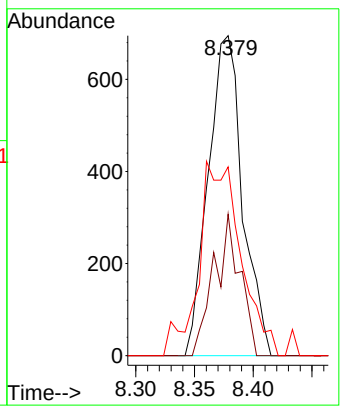




#54
cis-1,3-Dichloropropene
Concen: 0.564 ug/l
RT: 8.379 min Scan# 1
Delta R.T. 0.018 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 75 Resp: 141

Ion	Ratio	Lower	Upper
75	100		
77	44.2	25.4	38.0
39	59.0	52.2	78.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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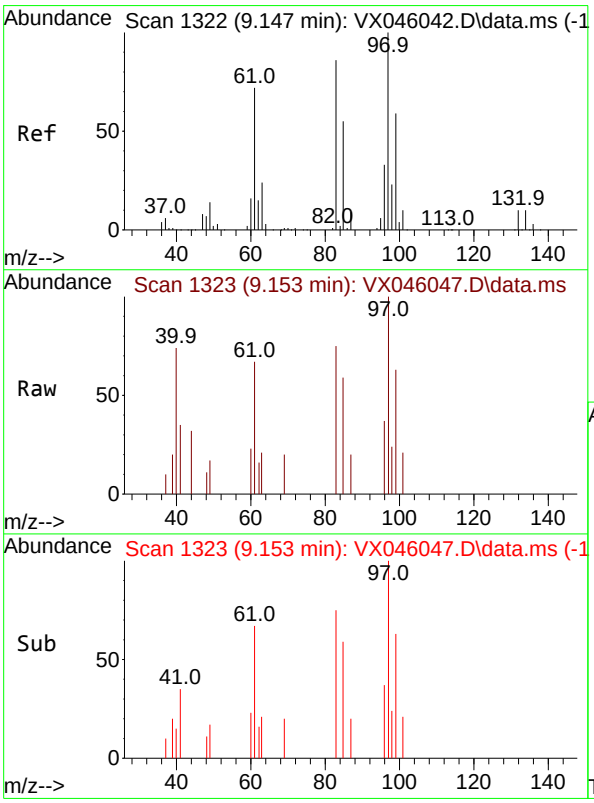
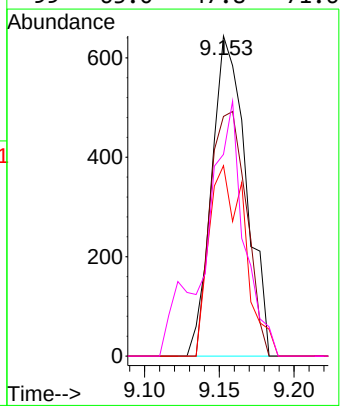
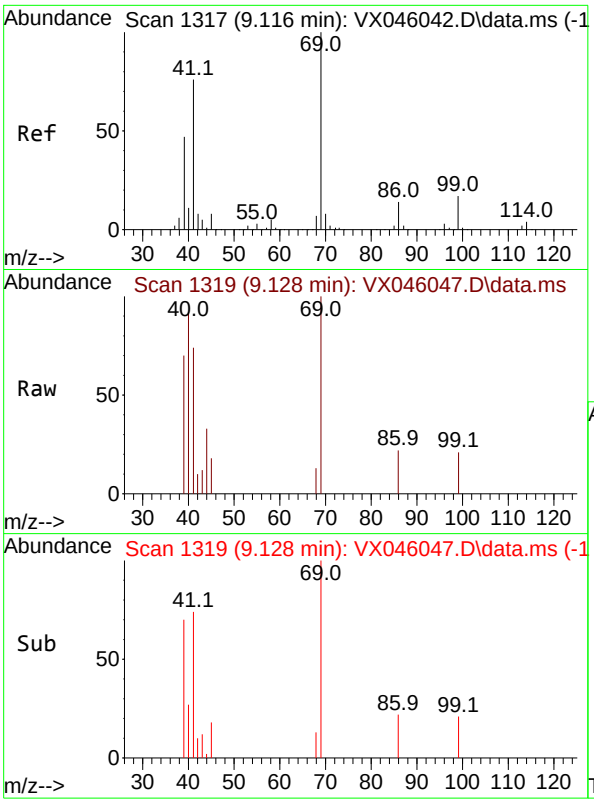


#55
1,1,2-Trichloroethane
Concen: 0.637 ug/l
RT: 9.153 min Scan# 1323
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 97 Resp: 1029

Ion	Ratio	Lower	Upper
97	100		
83	74.8	69.0	103.6
85	59.5	44.3	66.5
99	63.0	47.8	71.6

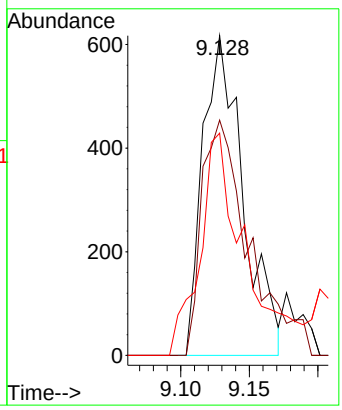




#56
Ethyl methacrylate
Concen: 0.504 ug/l
RT: 9.128 min Scan# 1
Delta R.T. 0.012 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 69 Resp: 126

Ion	Ratio	Lower	Upper
69	100		
41	86.6	60.8	91.2
39	78.0	39.0	58.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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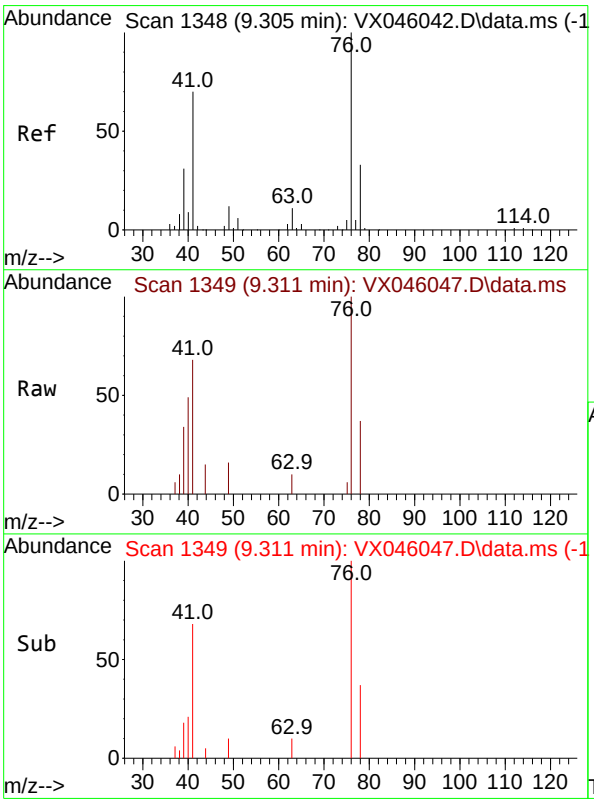
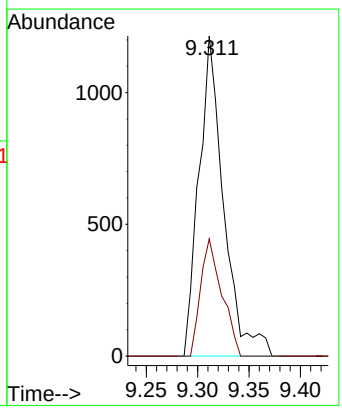
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

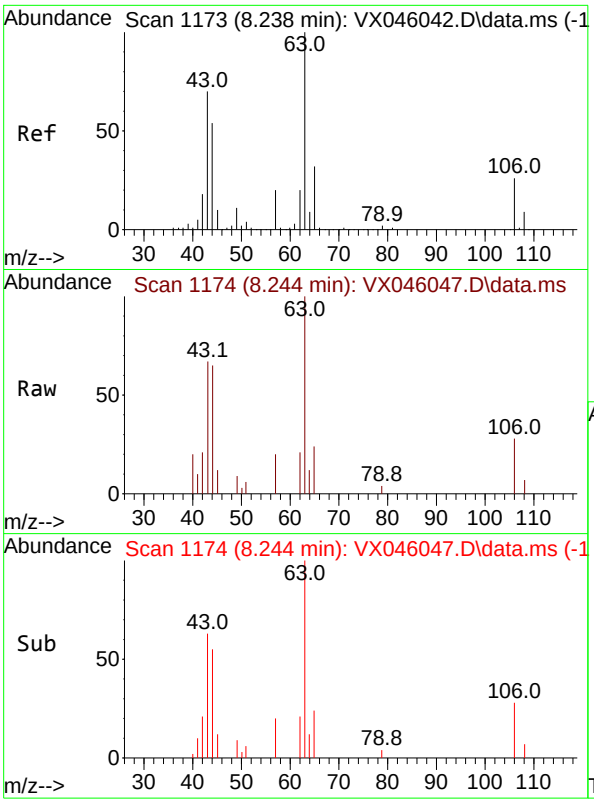


#57
1,3-Dichloropropane
Concen: 0.711 ug/l
RT: 9.311 min Scan# 1349
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 76 Resp: 2036

Ion	Ratio	Lower	Upper
76	100		
78	31.4	26.3	39.5





#58
2-Chloroethyl Vinyl ether
Concen: 3.420 ug/l
RT: 8.244 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 63 Resp: 384

Ion	Ratio	Lower	Upper
63	100		
106	24.0	21.5	32.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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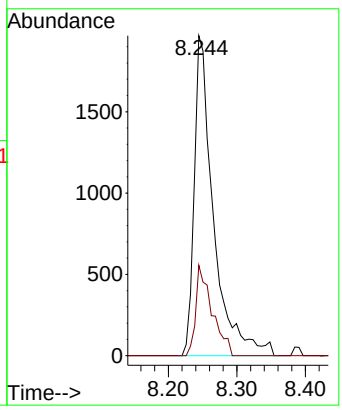
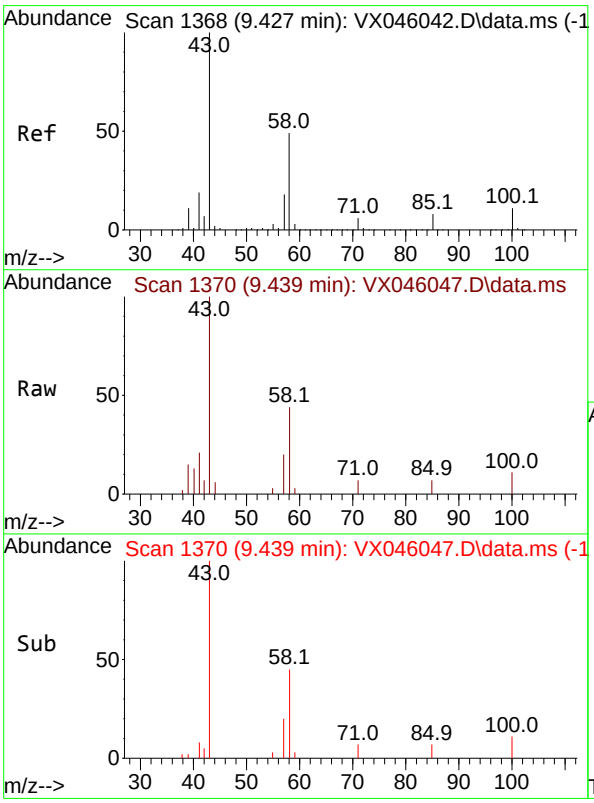
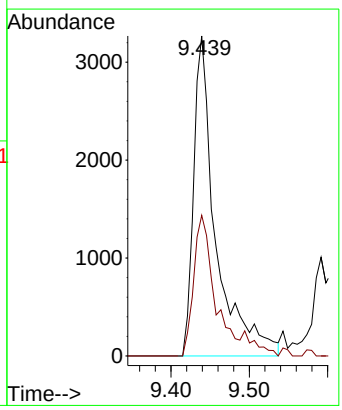


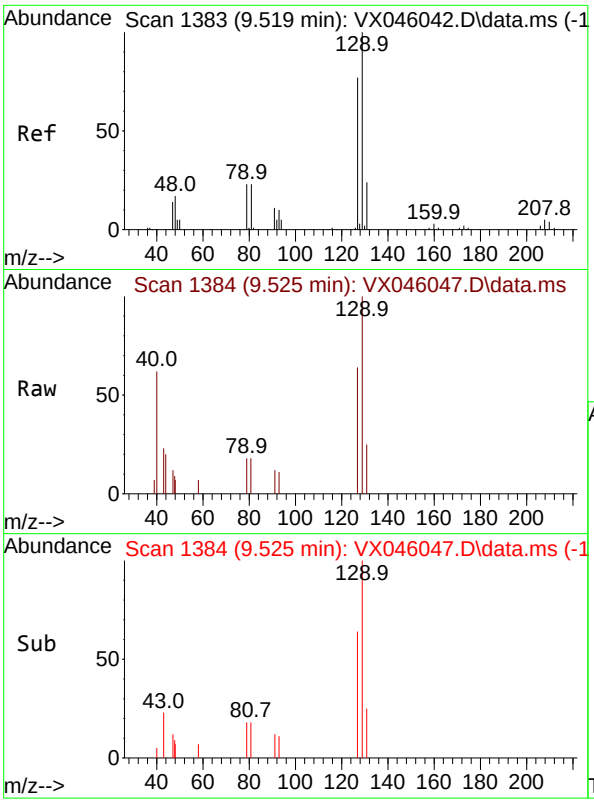


#59
2-Hexanone
Concen: 3.096 ug/l
RT: 9.439 min Scan# 1370
Delta R.T. 0.012 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 43 Resp: 6424

Ion	Ratio	Lower	Upper
43	100		
58	41.6	24.9	74.6

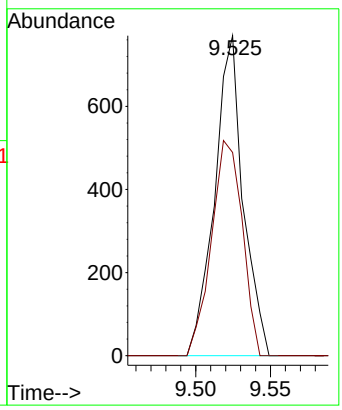




#60
Dibromochloromethane
Concen: 0.582 ug/l
RT: 9.525 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion:129 Resp: 102

Ion	Ratio	Lower	Upper
129	100		
127	72.5	39.3	117.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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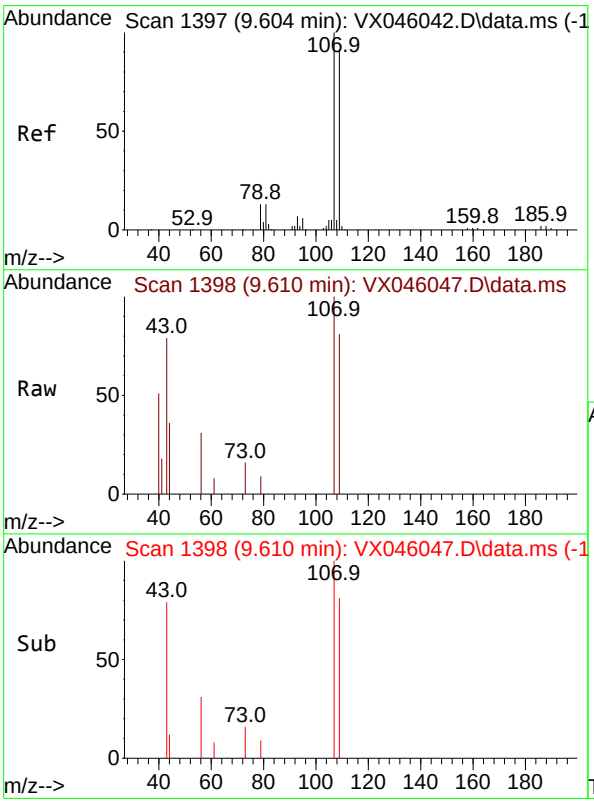
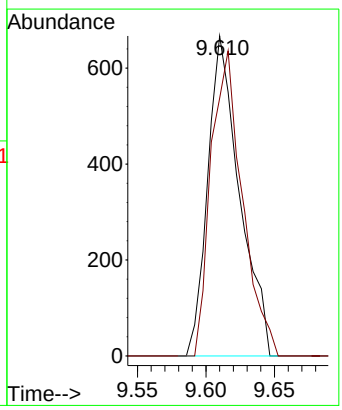
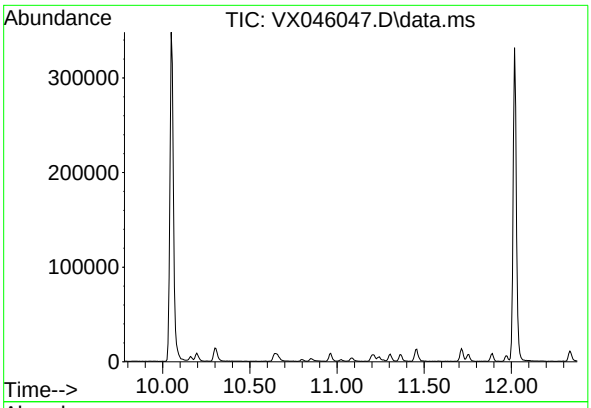


#61
1,2-Dibromoethane
Concen: 0.650 ug/l
RT: 9.610 min Scan# 1398
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion:107 Resp: 1077

Ion	Ratio	Lower	Upper
107	100		
109	94.0	73.3	109.9





#62
4-Bromofluorobenzene
Concen: 0.000 ug/l
Expected RT: 11.08 min

Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 95

Sig	Exp Ratio
95	100
174	67.9
176	65.7

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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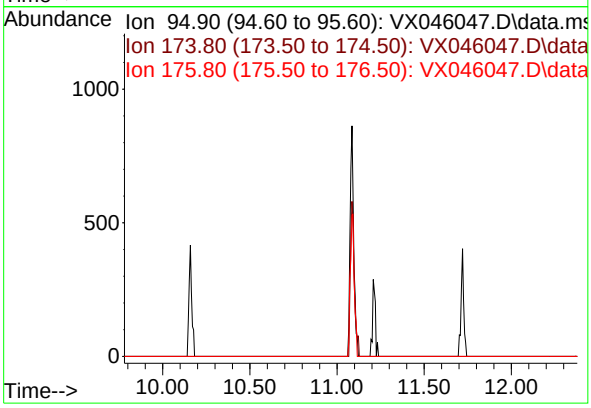
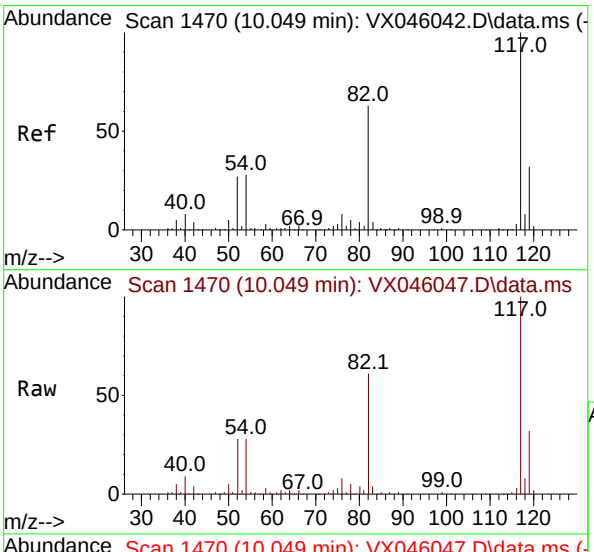
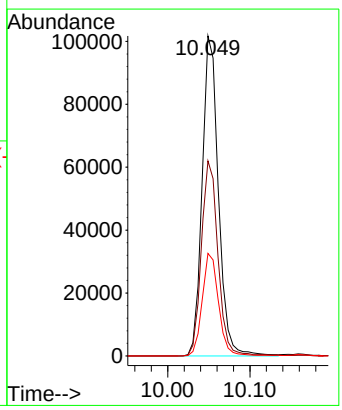


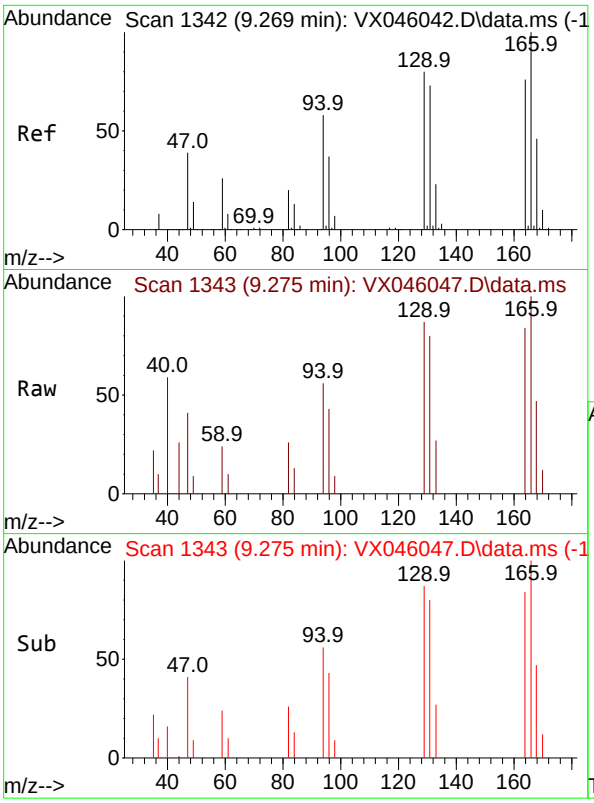


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion:117 Resp: 140108

Ion	Ratio	Lower	Upper
117	100		
82	61.0	50.6	76.0
119	32.1	25.8	38.6

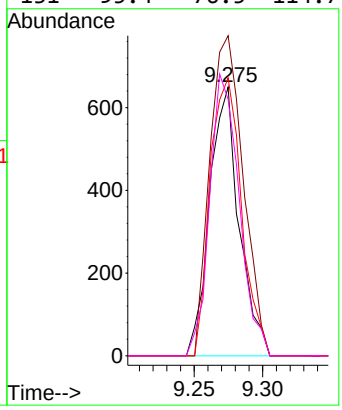




#64
Tetrachloroethene
Concen: 0.679 ug/l
RT: 9.275 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion:164 Resp: 97

Ion	Ratio	Lower	Upper
164	100		
166	119.1	105.0	157.6
129	103.4	83.5	125.3
131	95.4	76.5	114.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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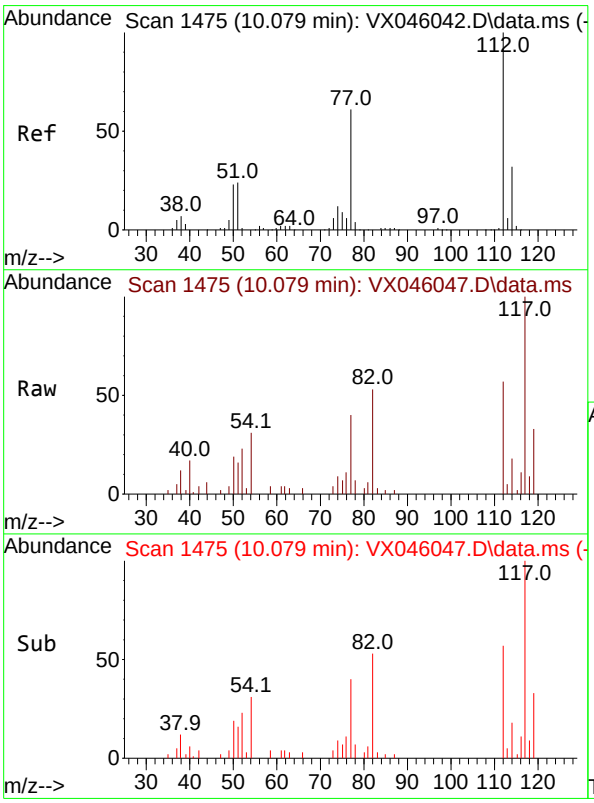
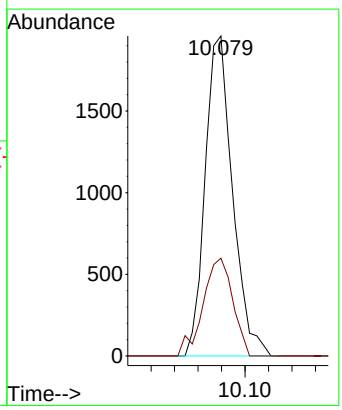
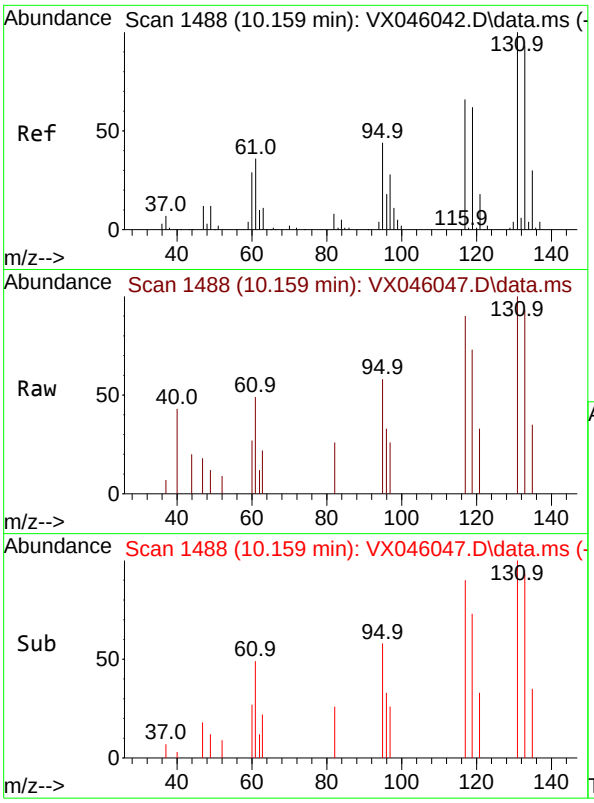


#65
Chlorobenzene
Concen: 0.735 ug/l
RT: 10.079 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion:112 Resp: 3170

Ion	Ratio	Lower	Upper
112	100		
114	30.6	25.4	38.2





#66
1,1,1,2-Tetrachloroethane
Concen: 0.720 ug/l
RT: 10.159 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion:131 Resp: 103

Ion	Ratio	Lower	Upper
131	100		
133	94.9	47.3	141.9
119	0.0	31.6	95.0#

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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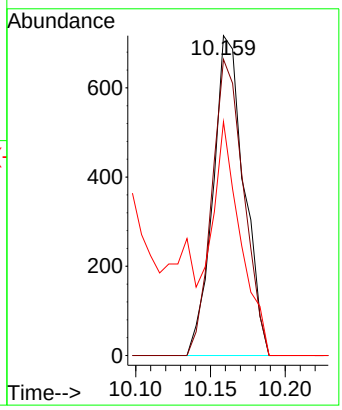
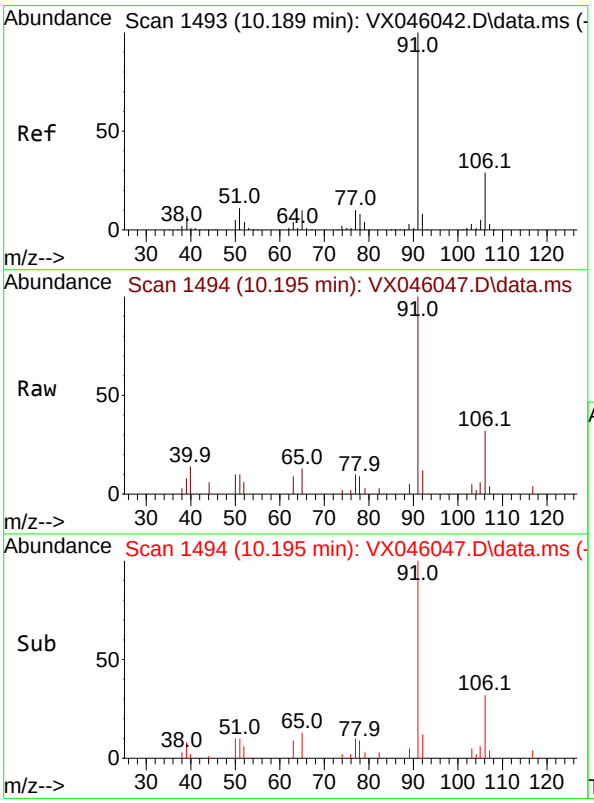
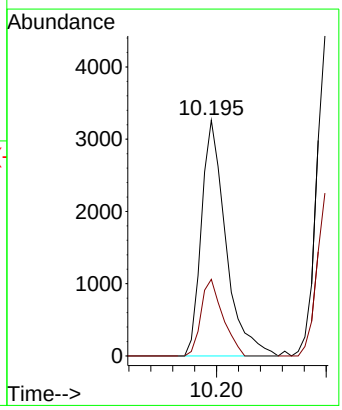


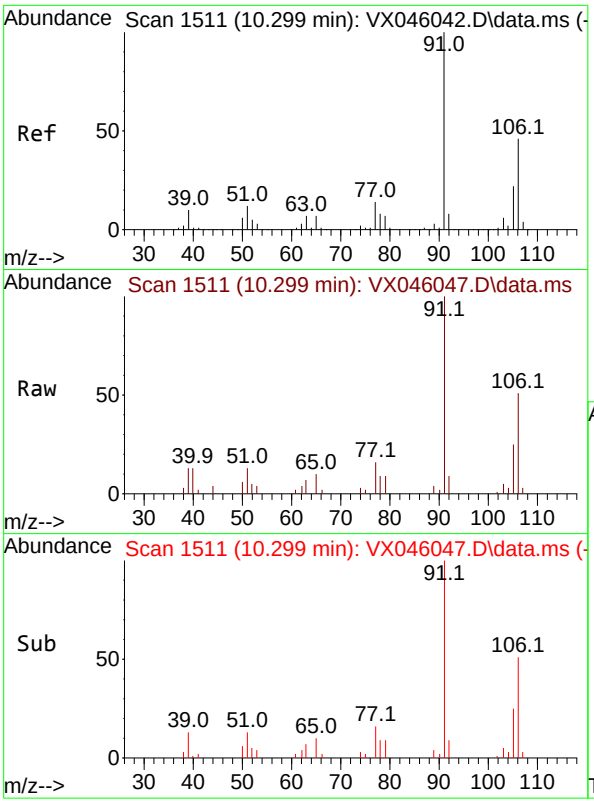


#67
Ethyl Benzene
Concen: 0.687 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 91 Resp: 5052

Ion	Ratio	Lower	Upper
91	100		
106	32.5	23.4	35.2

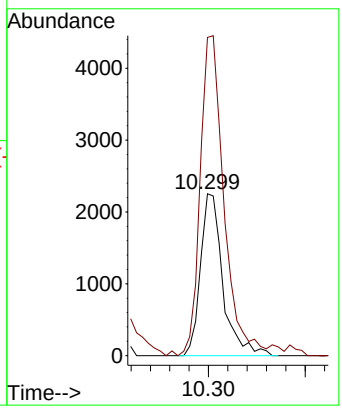




#68
m/p-Xylenes
Concen: 1.367 ug/l
RT: 10.299 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion:106 Resp: 363

Ion	Ratio	Lower	Upper
106	100		
91	209.8	171.2	256.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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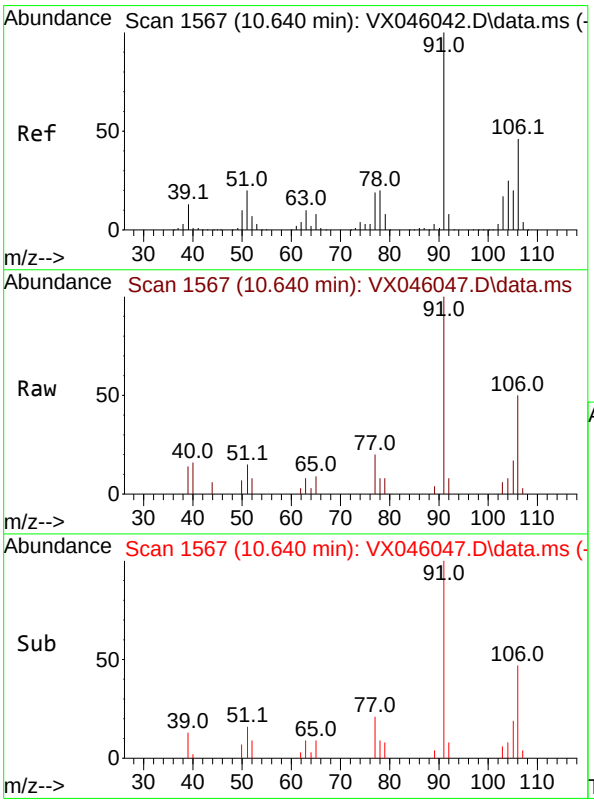
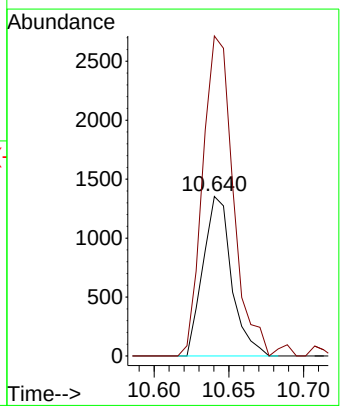
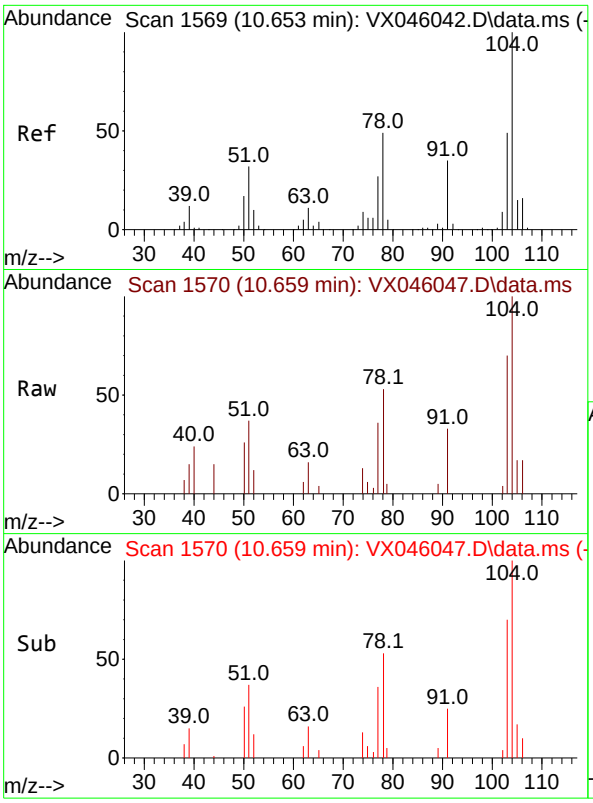


#69
o-Xylene
Concen: 0.672 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion:106 Resp: 1799

Ion	Ratio	Lower	Upper
106	100		
91	214.9	112.7	338.1

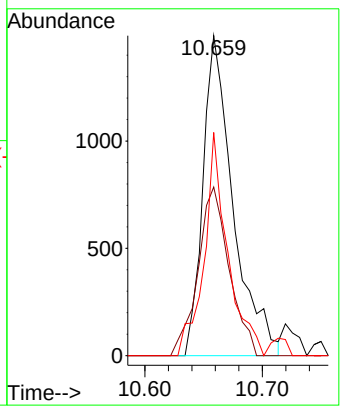




#70
Styrene
Concen: 0.622 ug/l
RT: 10.659 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion:104 Resp: 266

Ion	Ratio	Lower	Upper
104	100		
78	54.3	45.7	68.5
103	53.9	43.7	65.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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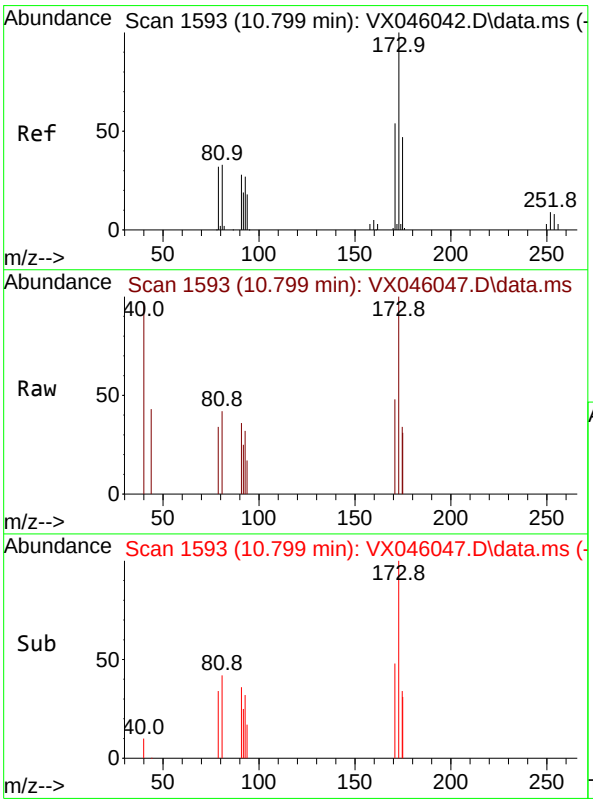
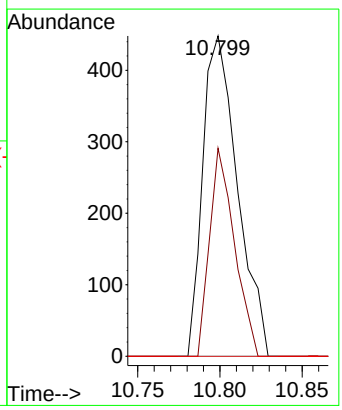
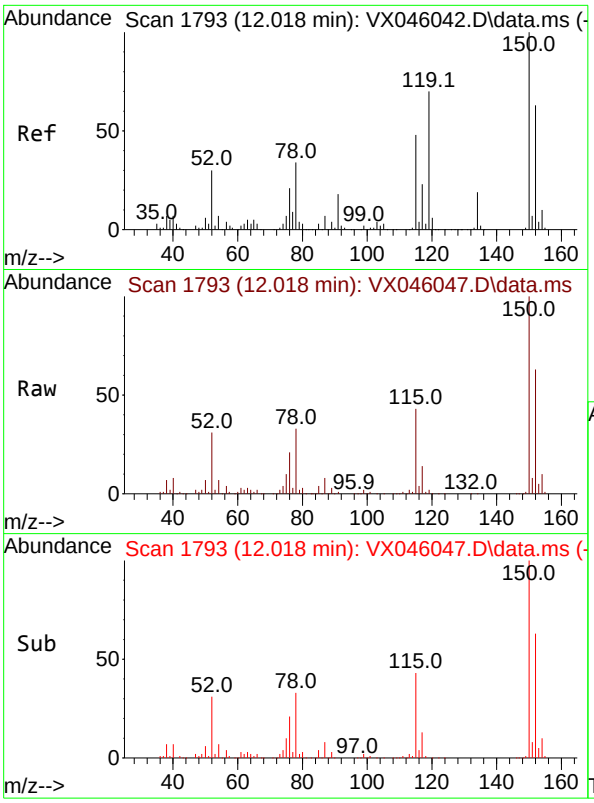


#71
Bromoform
Concen: 0.608 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion:173 Resp: 657

Ion	Ratio	Lower	Upper
173	100		
175	46.6	23.4	70.0
254	0.0	0.0	0.0

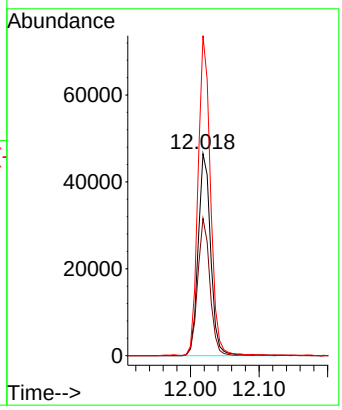




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion:152 Resp: 5912

Ion	Ratio	Lower	Upper
152	100		
115	66.6	46.9	140.7
150	156.3	0.0	351.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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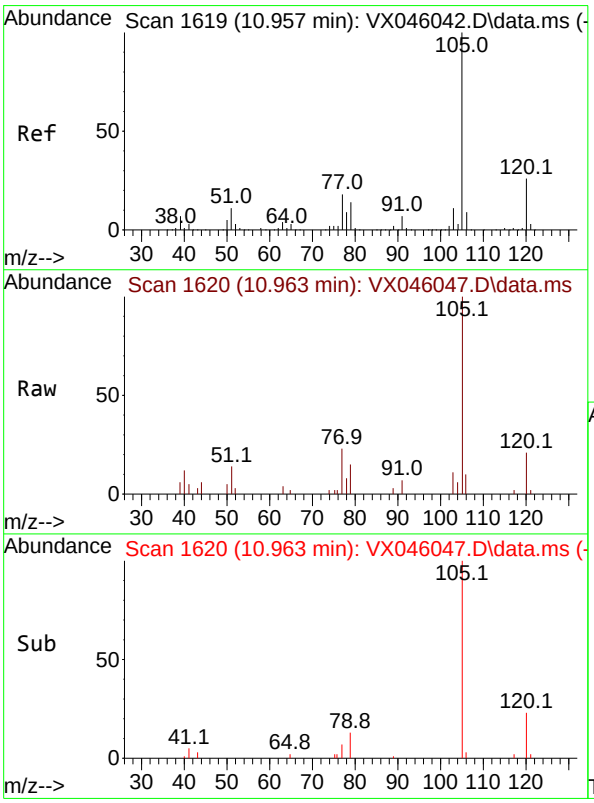
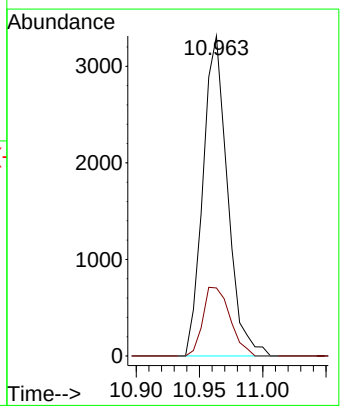
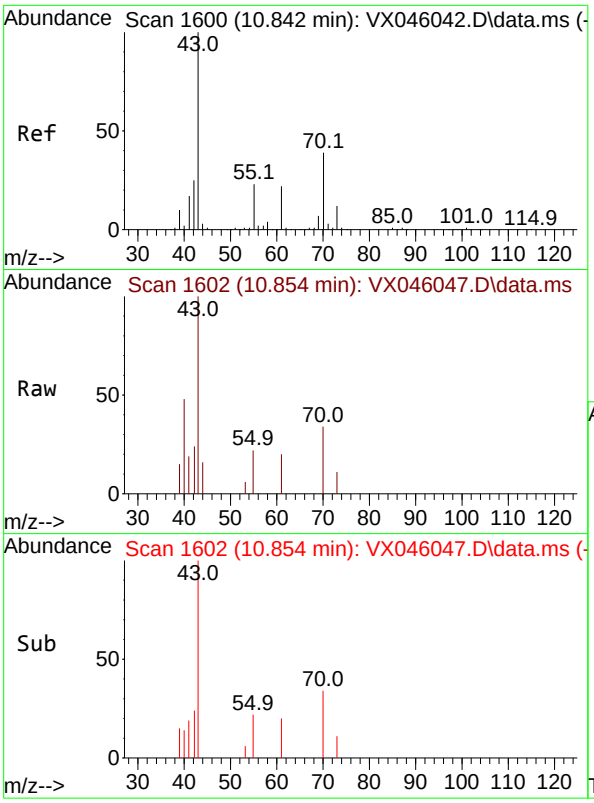


#73
Isopropylbenzene
Concen: 0.695 ug/l
RT: 10.963 min Scan# 1620
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion:105 Resp: 4480

Ion	Ratio	Lower	Upper
105	100		
120	23.7	12.8	38.4

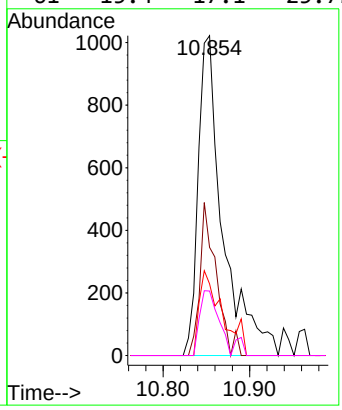




#74
N-amyl acetate
Concen: 0.631 ug/l
RT: 10.854 min Scan# 1
Delta R.T. 0.012 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 43 Resp: 202

Ion	Ratio	Lower	Upper
43	100		
70	31.5	30.9	46.3
55	24.5	18.7	28.1
61	15.4	17.1	25.7#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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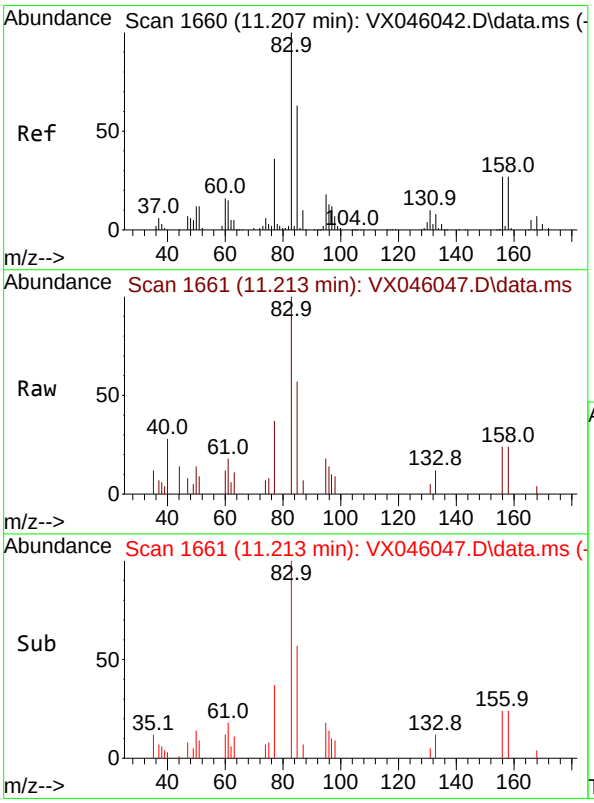
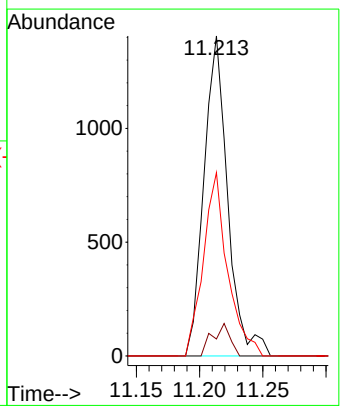
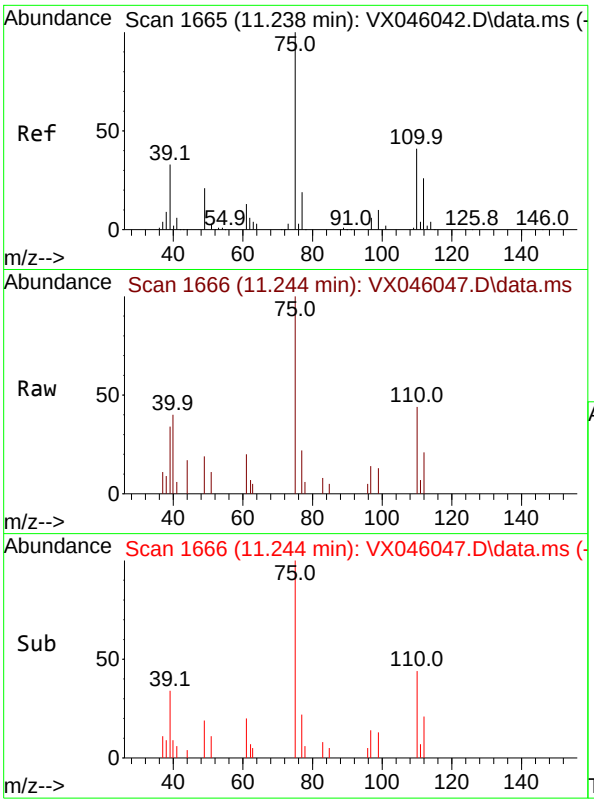


#75
1,1,2,2-Tetrachloroethane
Concen: 0.800 ug/l
RT: 11.213 min Scan# 1661
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 83 Resp: 1835

Ion	Ratio	Lower	Upper
83	100		
131	7.5	5.0	14.9
85	58.7	31.9	95.7

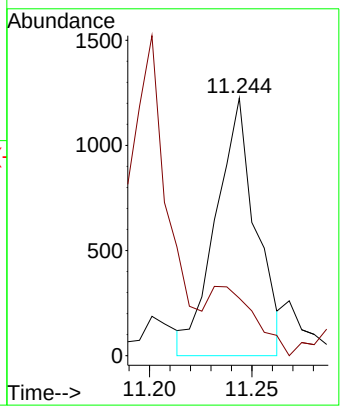




#76
1,2,3-Trichloropropane
Concen: 0.674 ug/l m
RT: 11.244 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 75 Resp: 166

Ion	Ratio	Lower	Upper
75	100		
77	29.7	20.5	61.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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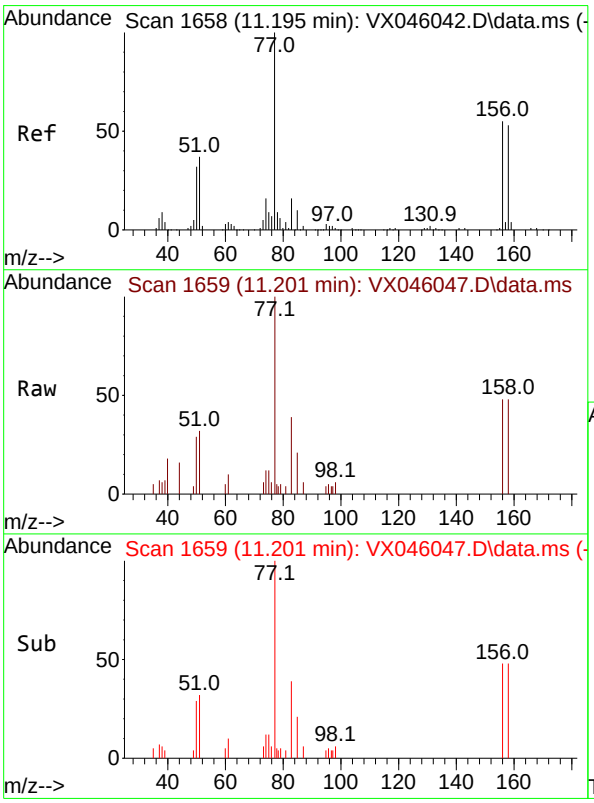
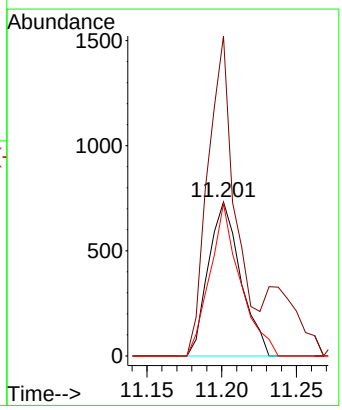
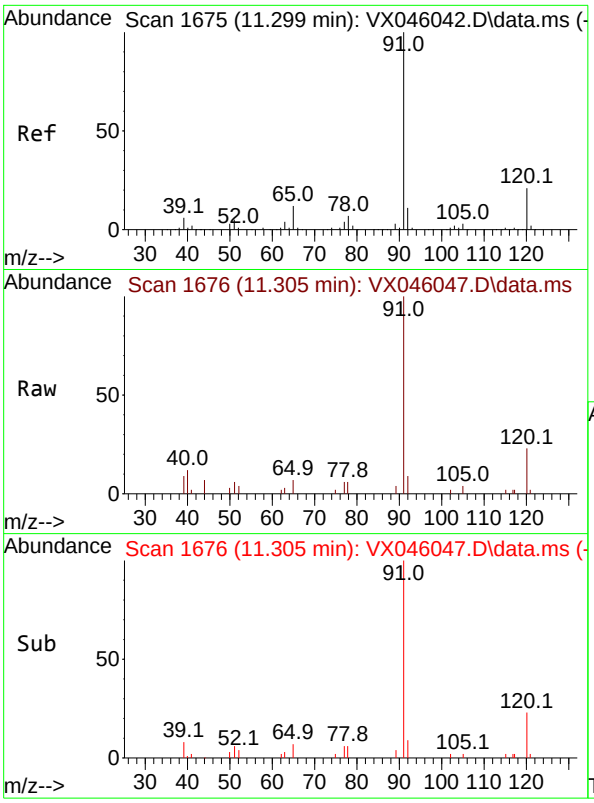


#77
Bromobenzene
Concen: 0.734 ug/l
RT: 11.201 min Scan# 1659
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion:156 Resp: 1095

Ion	Ratio	Lower	Upper
156	100		
77	179.5	92.8	278.3
158	93.5	48.8	146.3

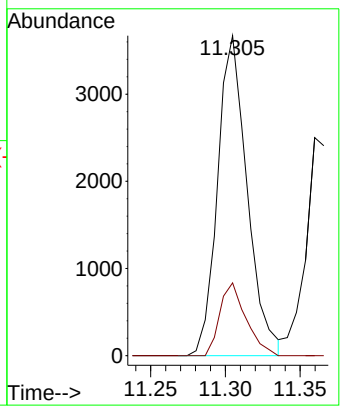




#78
n-propylbenzene
Concen: 0.699 ug/l
RT: 11.305 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 91 Resp: 505

Ion	Ratio	Lower	Upper
91	100		
120	20.1	10.8	32.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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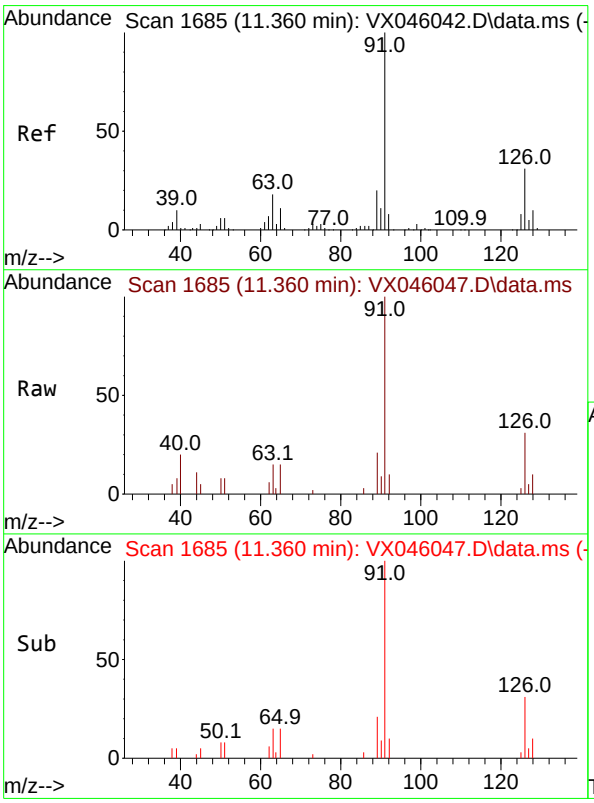
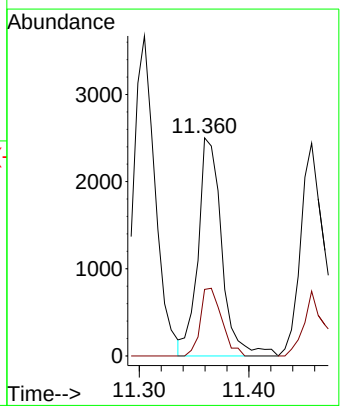
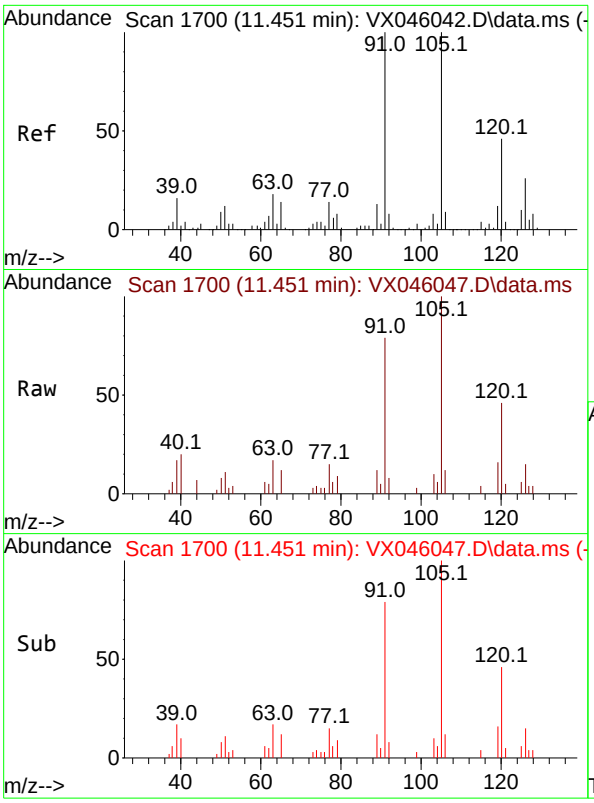


#79
2-Chlorotoluene
Concen: 0.773 ug/l
RT: 11.360 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 91 Resp: 3765

Ion	Ratio	Lower	Upper
91	100		
126	28.0	15.6	46.7

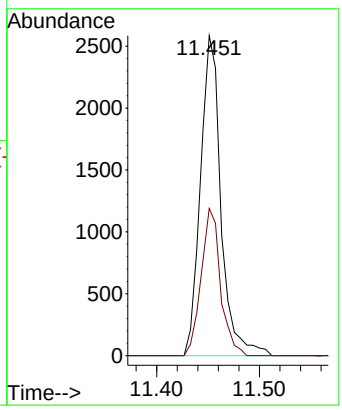




#80
1,3,5-Trimethylbenzene
Concen: 0.671 ug/l
RT: 11.451 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion:105 Resp: 359

Ion	Ratio	Lower	Upper
105	100		
120	43.4	23.1	69.2



Instrument :
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ClientSampleId :
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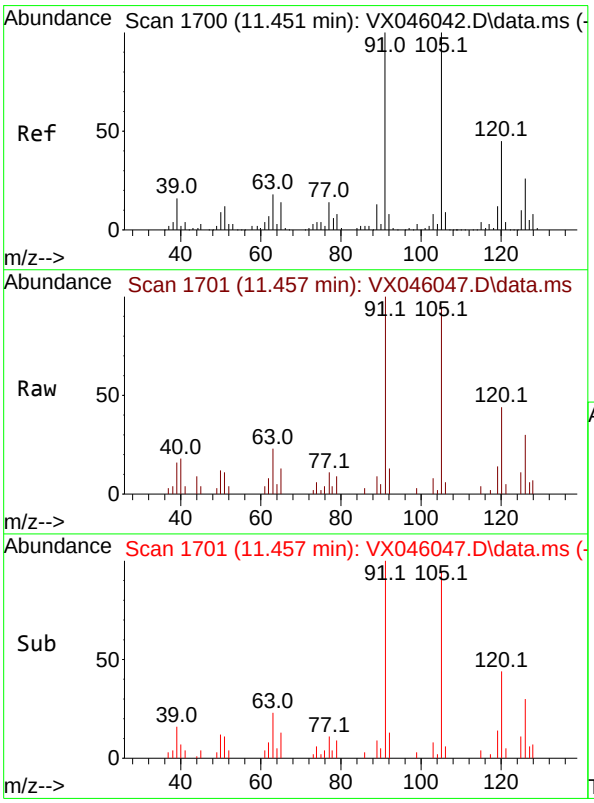
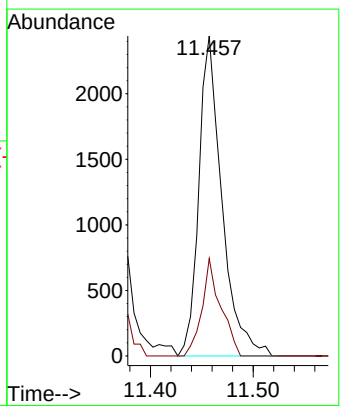
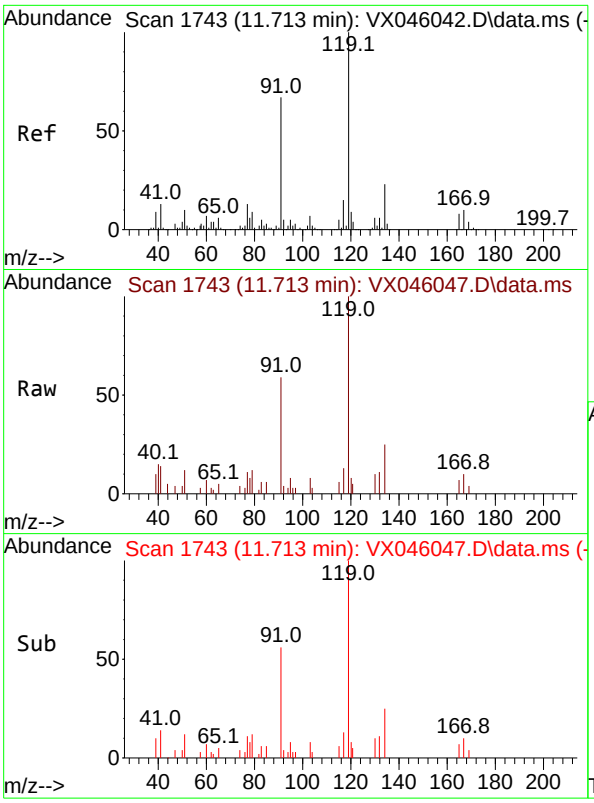


#82
4-Chlorotoluene
Concen: 0.713 ug/l
RT: 11.457 min Scan# 1701
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 91 Resp: 3815

Ion	Ratio	Lower	Upper
91	100		
126	24.8	13.3	39.8

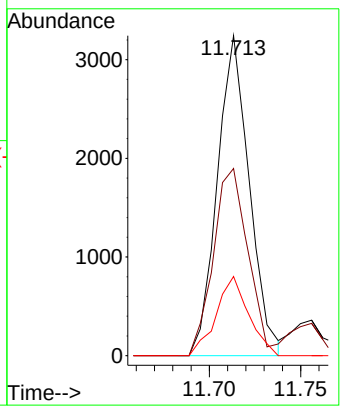




#83
tert-Butylbenzene
Concen: 0.751 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion:119 Resp: 395

Ion	Ratio	Lower	Upper
119	100		
91	63.9	32.9	98.7
134	25.2	11.4	34.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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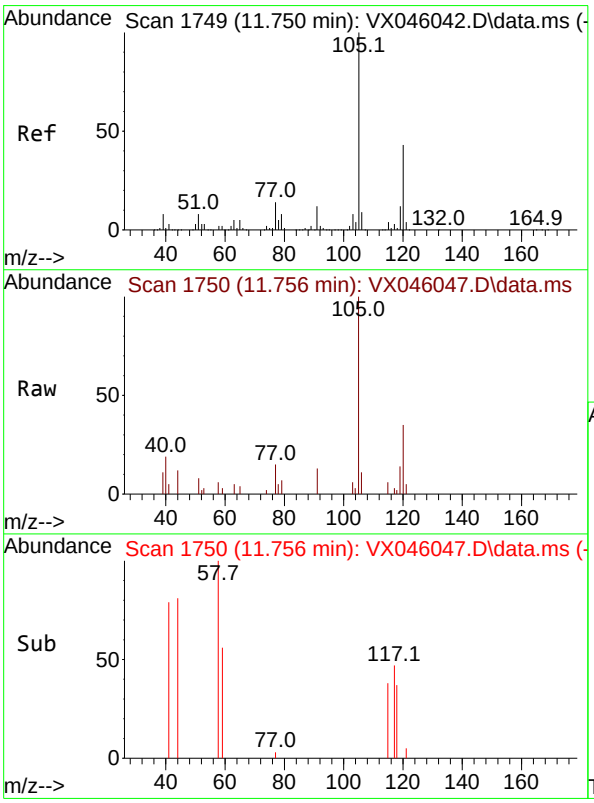
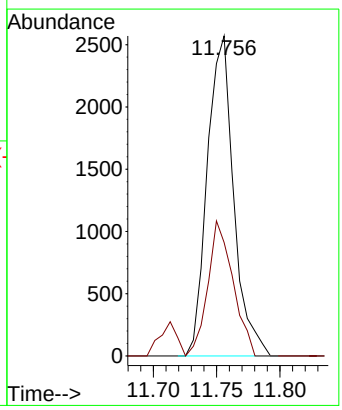
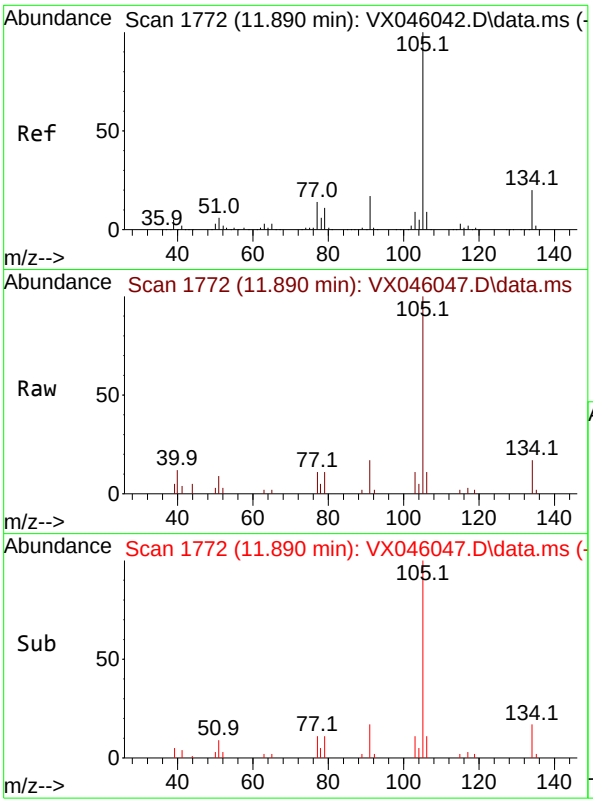


#84
1,2,4-Trimethylbenzene
Concen: 0.697 ug/l
RT: 11.756 min Scan# 1750
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion:105 Resp: 3725

Ion	Ratio	Lower	Upper
105	100		
120	40.3	21.2	63.6





#85
sec-Butylbenzene
Concen: 0.672 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion:105 Resp: 438

Ion	Ratio	Lower	Upper
105	100		
134	19.2	9.7	29.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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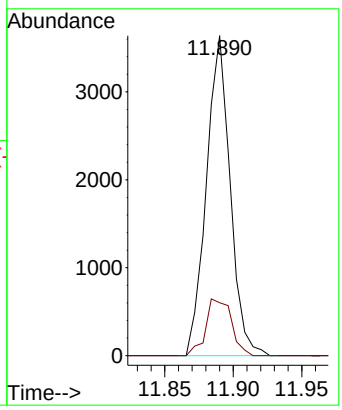
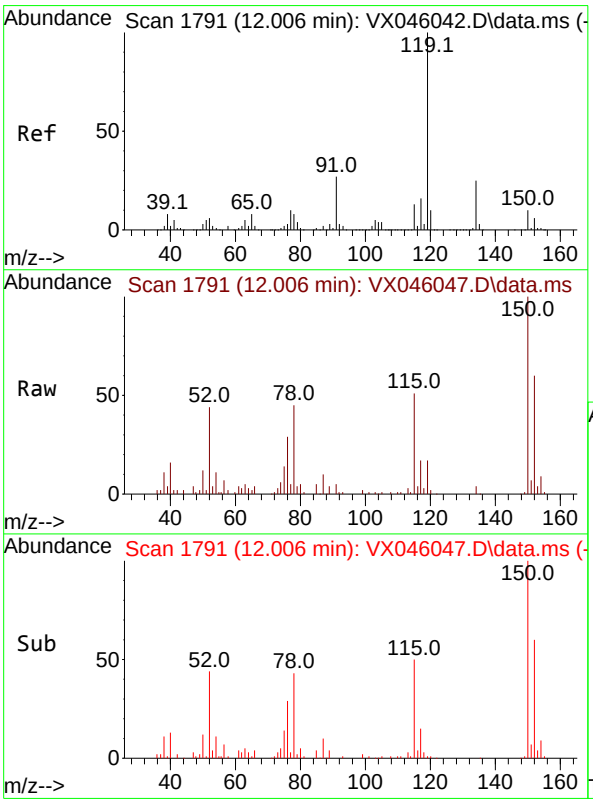
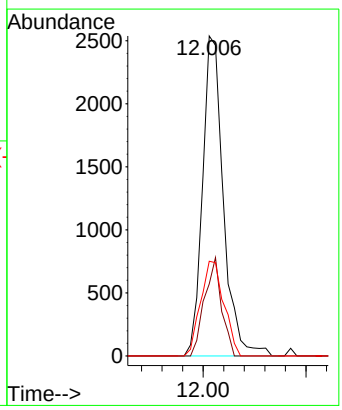


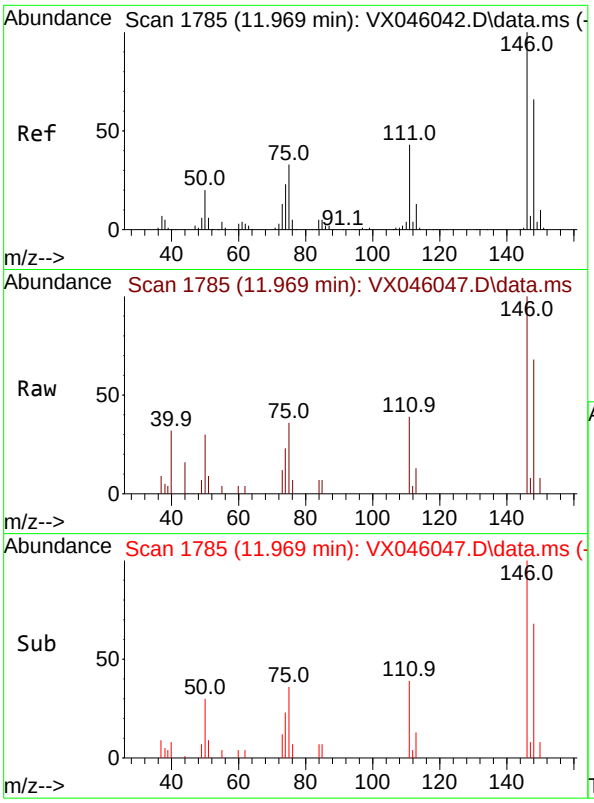


#86
p-Isopropyltoluene
Concen: 0.679 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion:119 Resp: 3577

Ion	Ratio	Lower	Upper
119	100		
134	25.0	12.5	37.5
91	33.1	13.8	41.4

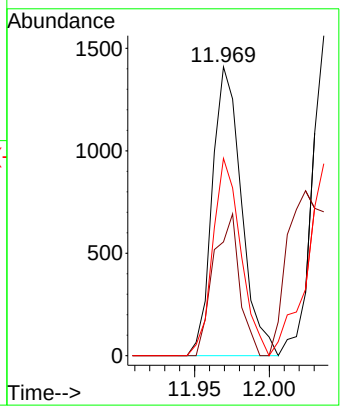




#87
1,3-Dichlorobenzene
Concen: 0.689 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion:146 Resp: 191

Ion	Ratio	Lower	Upper
146	100		
111	43.9	22.1	66.3
148	65.3	32.1	96.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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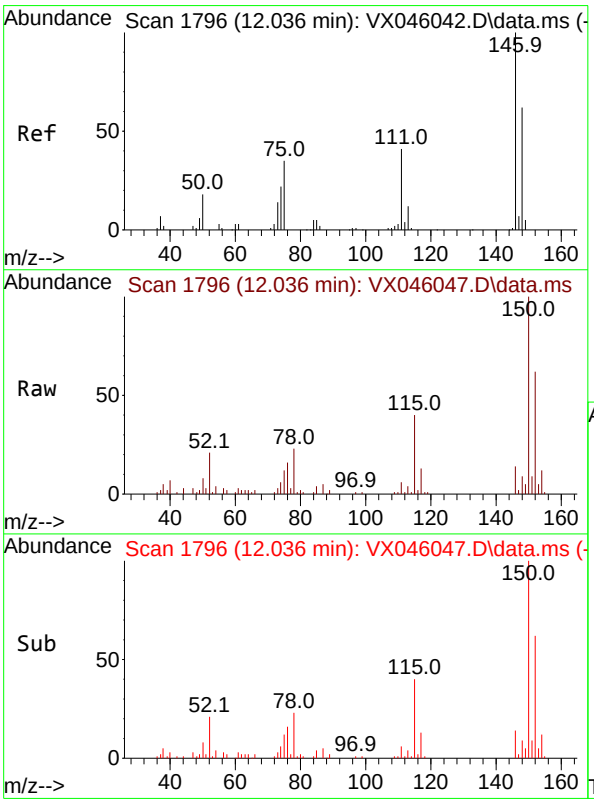
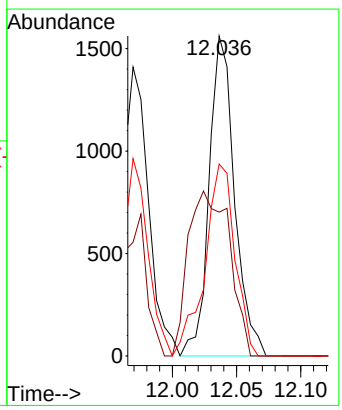
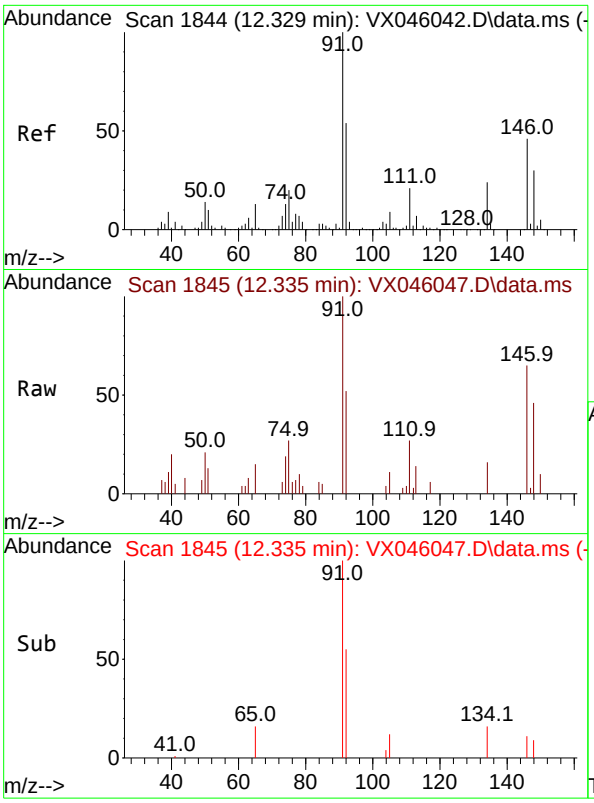


#88
1,4-Dichlorobenzene
Concen: 0.789 ug/l m
RT: 12.036 min Scan# 1796
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion:146 Resp: 2149

Ion	Ratio	Lower	Upper
146	100		
111	39.1	21.3	63.9
148	58.2	31.9	95.5

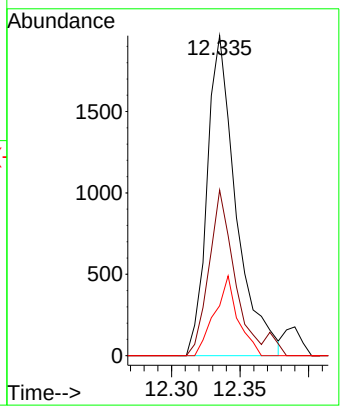




#89
n-Butylbenzene
Concen: 0.631 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 91 Resp: 288

Ion	Ratio	Lower	Upper
91	100		
92	48.1	26.9	80.7
134	20.1	11.8	35.3



Instrument :
MSVOA_X
ClientSampleId :
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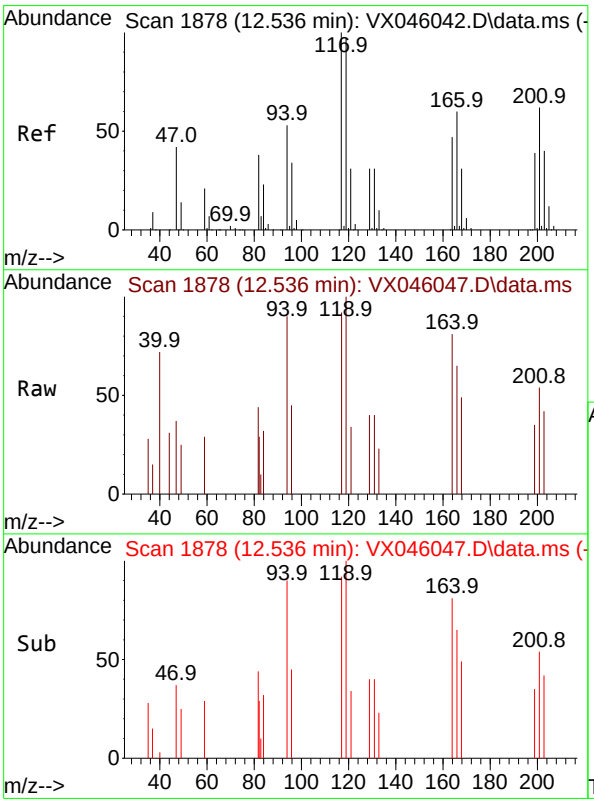
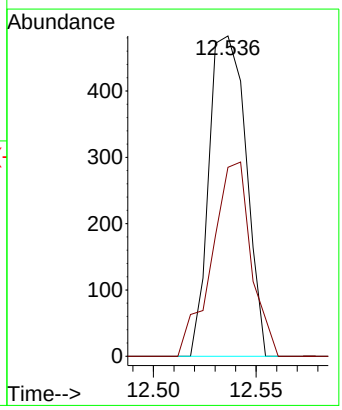
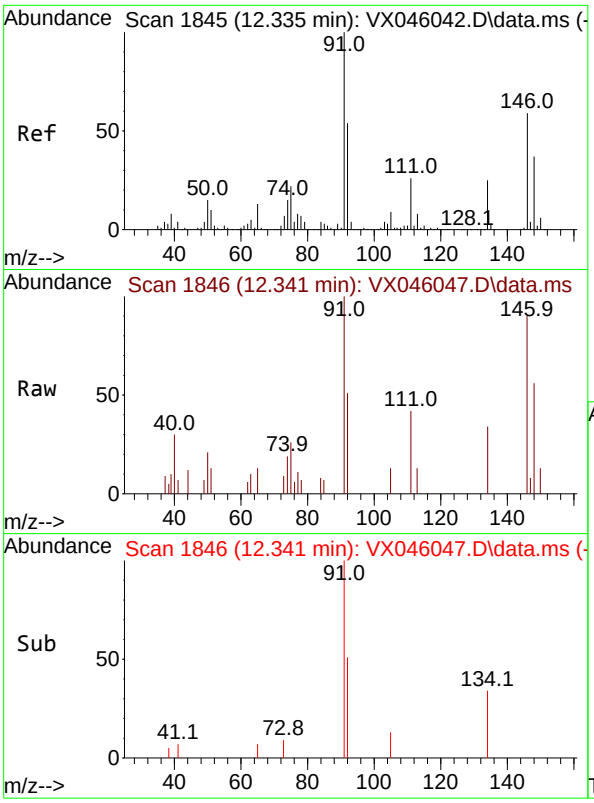


#90
Hexachloroethane
Concen: 0.616 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion:117 Resp: 604

Ion	Ratio	Lower	Upper
117	100		
201	64.2	31.6	94.7

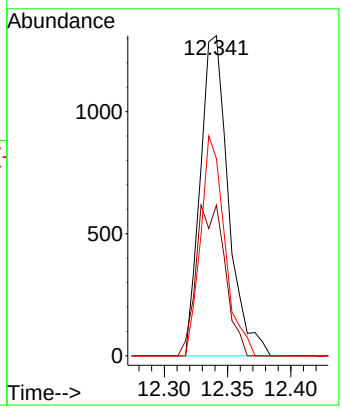




#91
1,2-Dichlorobenzene
Concen: 0.747 ug/l
RT: 12.341 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion:146 Resp: 202

Ion	Ratio	Lower	Upper
146	100		
111	48.8	22.4	67.3
148	59.4	31.6	94.8



Instrument :
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ClientSampleId :
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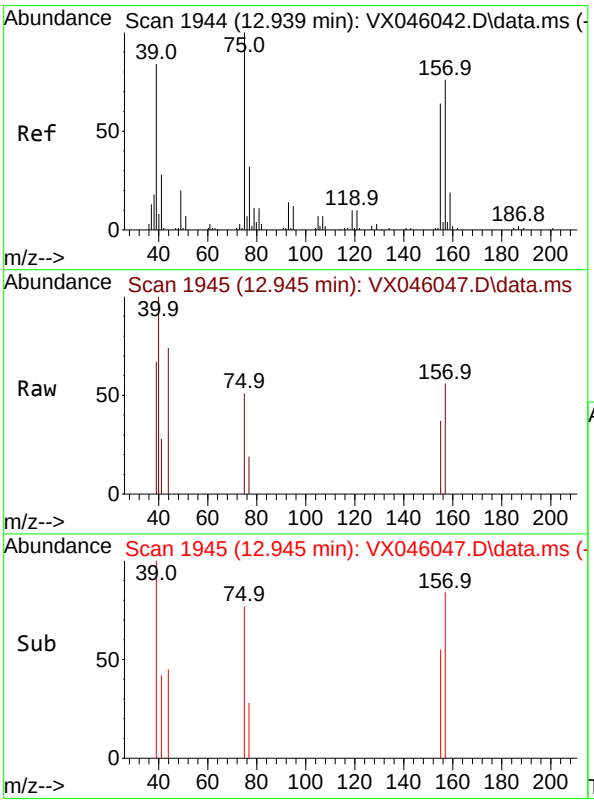
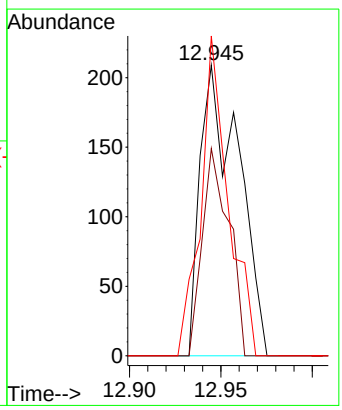
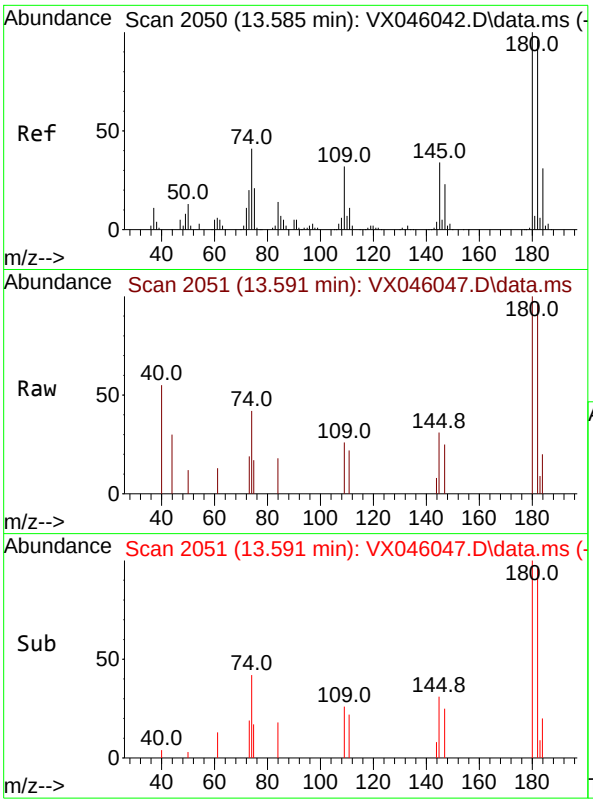


#92
1,2-Dibromo-3-Chloropropane
Concen: 0.586 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 75 Resp: 306

Ion	Ratio	Lower	Upper
75	100		
155	49.3	34.9	104.8
157	78.1	43.8	131.4

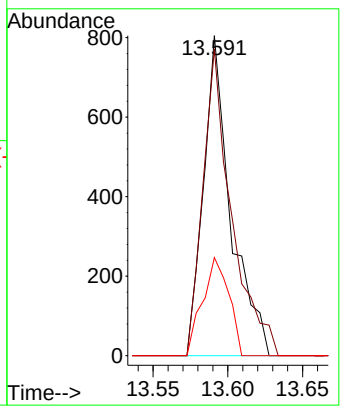




#93
1,2,4-Trichlorobenzene
Concen: 0.688 ug/l
RT: 13.591 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion:180 Resp: 101

Ion	Ratio	Lower	Upper
180	100		
182	100.6	47.9	143.8
145	29.5	17.1	51.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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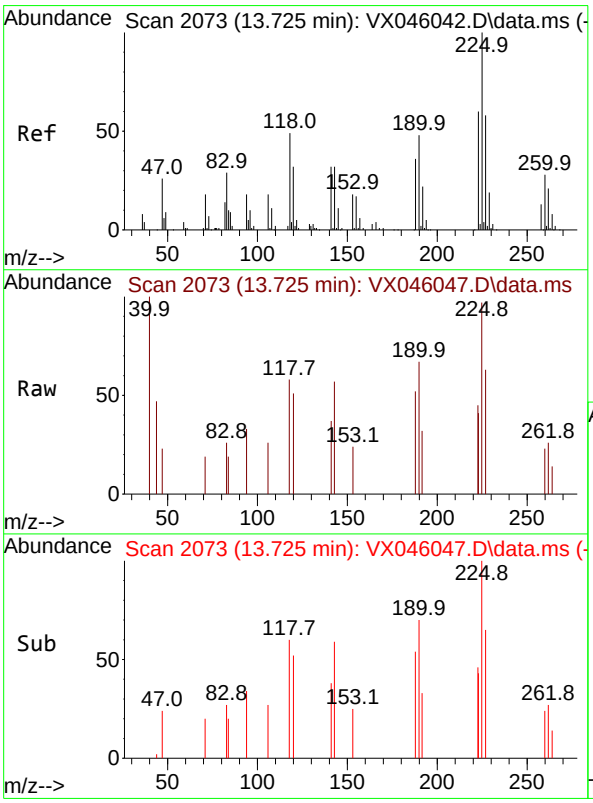
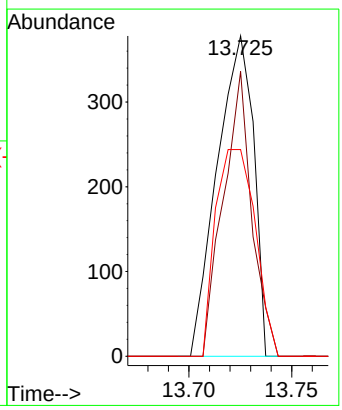
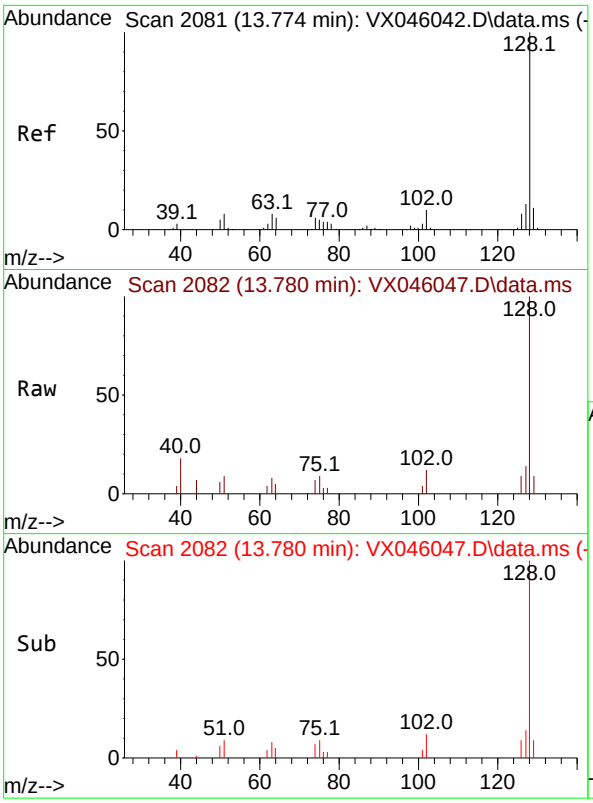


#94
Hexachlorobutadiene
Concen: 0.671 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion:225 Resp: 465

Ion	Ratio	Lower	Upper
225	100		
223	69.7	30.8	92.4
227	70.5	30.9	92.7

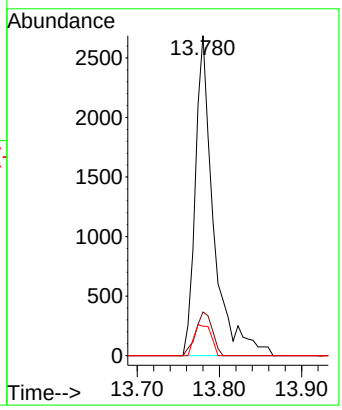




#95
Naphthalene
Concen: 0.767 ug/l
RT: 13.780 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion:128 Resp: 413

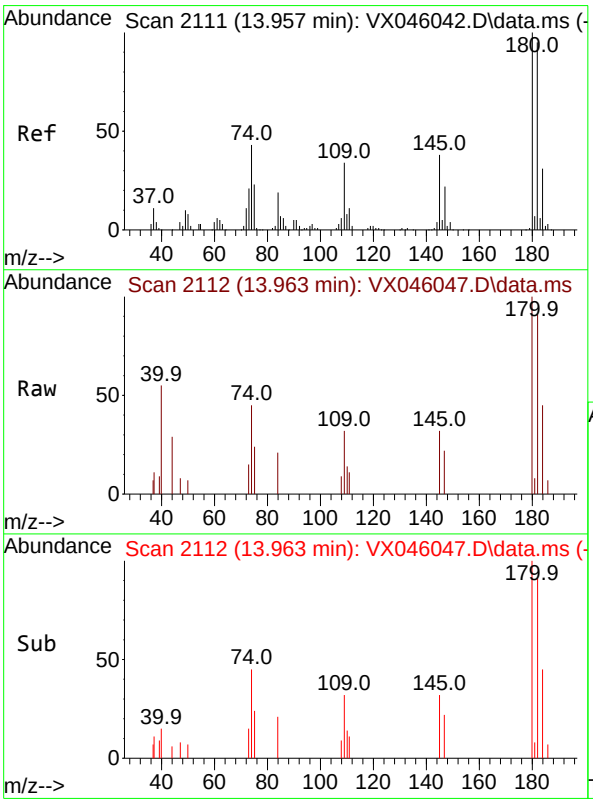
Ion	Ratio	Lower	Upper
128	100		
127	12.4	10.4	15.6
129	8.9	8.6	13.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

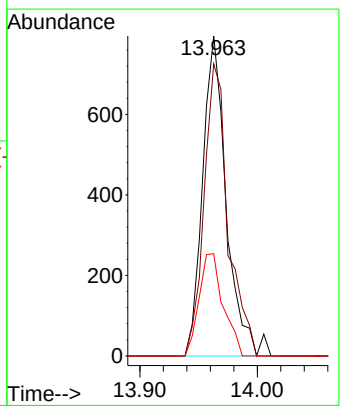
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025



#96
1,2,3-Trichlorobenzene
Concen: 0.716 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion:180 Resp: 1113

Ion	Ratio	Lower	Upper
180	100		
182	92.5	47.8	143.3
145	32.5	18.1	54.3



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046048.D
Acq On : 05 May 2025 16:50
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 06 07:17:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Manual Integrations APPROVED
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	92588	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	162651	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	145078	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	68229	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	83733	48.509	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 97.020%			
35) Dibromofluoromethane	5.379	113	58192	49.683	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 99.360%			
50) Toluene-d8	8.647	98	198575	48.984	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 97.960%			
62) 4-Bromofluorobenzene	11.079	95	75568	48.596	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 97.200%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.167	85	78783	55.594	ug/l	99
3) Chloromethane	1.307	50	72275	52.592	ug/l	100
4) Vinyl Chloride	1.374	62	65994	51.598	ug/l	98
5) Bromomethane	1.593	94	30033	50.627	ug/l	97
6) Chloroethane	1.666	64	35690	52.271	ug/l	94
7) Trichlorofluoromethane	1.874	101	99352	52.560	ug/l	99
8) Diethyl Ether	2.130	74	31875	49.536	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.319	101	59451	50.822	ug/l	99
10) Methyl Iodide	2.447	142	73940	53.419	ug/l	99
11) Tert butyl alcohol	2.977	59	61065	252.025	ug/l	99
12) 1,1-Dichloroethene	2.313	96	56097	51.097	ug/l	98
13) Acrolein	2.233	56	64157	232.505	ug/l	99
14) Allyl chloride	2.660	41	108757	51.833	ug/l	100
15) Acrylonitrile	3.063	53	181808	262.412	ug/l	99
16) Acetone	2.380	43	169923	245.518	ug/l	98
17) Carbon Disulfide	2.502	76	132695	50.981	ug/l	99
18) Methyl Acetate	2.703	43	80251	49.968	ug/l	97
19) Methyl tert-butyl Ether	3.111	73	195442	50.777	ug/l	99
20) Methylene Chloride	2.782	84	63369	47.779	ug/l	99
21) trans-1,2-Dichloroethene	3.087	96	55770	50.513	ug/l	99
22) Diisopropyl ether	3.757	45	209946	51.800	ug/l	97
23) Vinyl Acetate	3.715	43	946746	265.585	ug/l	100
24) 1,1-Dichloroethane	3.605	63	114733	50.825	ug/l	98
25) 2-Butanone	4.556	43	258339	257.110	ug/l	97
26) 2,2-Dichloropropane	4.471	77	88229	49.934	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	67727	50.956	ug/l	100
28) Bromochloromethane	4.891	49	55390	50.975	ug/l	98
29) Tetrahydrofuran	5.001	42	163675	259.958	ug/l	99
30) Chloroform	5.093	83	120782	51.332	ug/l	97
31) Cyclohexane	5.458	56	103158	50.147	ug/l	96
32) 1,1,1-Trichloroethane	5.373	97	104243	51.108	ug/l	100
36) 1,1-Dichloropropene	5.690	75	77931	49.521	ug/l	99
37) Ethyl Acetate	4.715	43	98604	50.714	ug/l	100
38) Carbon Tetrachloride	5.666	117	88100	49.825	ug/l	97
39) Methylcyclohexane	7.373	83	100808	49.757	ug/l	98
40) Benzene	6.031	78	233977	50.759	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046048.D
Acq On : 05 May 2025 16:50
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 06 07:17:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Manual Integrations APPROVED

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.916	41	56017	55.076	ug/l		100
42) 1,2-Dichloroethane	6.080	62	101185	50.861	ug/l		98
43) Isopropyl Acetate	6.336	43	154818	52.195	ug/l		99
44) Trichloroethene	7.123	130	55491	50.018	ug/l		100
45) 1,2-Dichloropropane	7.428	63	59582	51.983	ug/l		98
46) Dibromomethane	7.580	93	45181	49.978	ug/l		99
47) Bromodichloromethane	7.818	83	92388	51.889	ug/l		100
48) Methyl methacrylate	7.690	41	82144	54.226	ug/l		98
49) 1,4-Dioxane	7.659	88	30477	1059.599	ug/l		97
51) 4-Methyl-2-Pentanone	8.574	43	510206	259.133	ug/l		100
52) Toluene	8.714	92	144574	51.150	ug/l		100
53) t-1,3-Dichloropropene	8.976	75	83751	52.920	ug/l		100
54) cis-1,3-Dichloropropene	8.360	75	92517	52.892	ug/l		98
55) 1,1,2-Trichloroethane	9.147	97	56713	50.887	ug/l		96
56) Ethyl methacrylate	9.116	69	95772	53.918	ug/l		99
57) 1,3-Dichloropropane	9.305	76	99663	49.793	ug/l		97
58) 2-Chloroethyl Vinyl ether	8.238	63	240681	265.780	ug/l		99
59) 2-Hexanone	9.427	43	390701	268.218	ug/l		100
60) Dibromochloromethane	9.519	129	63738	52.075	ug/l		99
61) 1,2-Dibromoethane	9.610	107	59134	51.050	ug/l		98
64) Tetrachloroethene	9.269	164	48034	46.795	ug/l		98
65) Chlorobenzene	10.073	112	154640	48.699	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.159	131	53735	49.557	ug/l		100
67) Ethyl Benzene	10.189	91	281239	50.245	ug/l		100
68) m/p-Xylenes	10.299	106	206813	101.022	ug/l		99
69) o-Xylene	10.640	106	101469	50.841	ug/l		99
70) Styrene	10.653	104	169703	51.907	ug/l		99
71) Bromoform	10.799	173	40364	49.583	ug/l	#	97
73) Isopropylbenzene	10.957	105	269484	50.733	ug/l		100
74) N-amyl acetate	10.842	43	137559	52.407	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.207	83	89027	47.827	ug/l		98
76) 1,2,3-Trichloropropane	11.238	75	79763m	48.568	ug/l		
77) Bromobenzene	11.195	156	59871	48.549	ug/l		98
78) n-propylbenzene	11.299	91	312285	50.562	ug/l		100
79) 2-Chlorotoluene	11.360	91	195630	49.107	ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	228538	51.500	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	24857	49.276	ug/l		98
82) 4-Chlorotoluene	11.451	91	223811	50.661	ug/l		100
83) tert-Butylbenzene	11.713	119	225783	50.511	ug/l		99
84) 1,2,4-Trimethylbenzene	11.750	105	231371	51.485	ug/l		100
85) sec-Butylbenzene	11.890	105	280578	51.122	ug/l		99
86) p-Isopropyltoluene	12.006	119	231942	51.198	ug/l		100
87) 1,3-Dichlorobenzene	11.963	146	113146	50.272	ug/l		99
88) 1,4-Dichlorobenzene	12.037	146	111173	48.368	ug/l		99
89) n-Butylbenzene	12.329	91	205858	51.804	ug/l		100
90) Hexachloroethane	12.536	117	39823	49.895	ug/l		99
91) 1,2-Dichlorobenzene	12.335	146	111482	49.361	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	21220	51.458	ug/l		99
93) 1,2,4-Trichlorobenzene	13.585	180	64421	49.662	ug/l		100
94) Hexachlorobutadiene	13.719	225	27425	48.408	ug/l		98
95) Naphthalene	13.774	128	239805	50.404	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	64950	48.525	ug/l		98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046048.D
Acq On : 05 May 2025 16:50
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 06 07:17:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Manual Integrations APPROVED

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

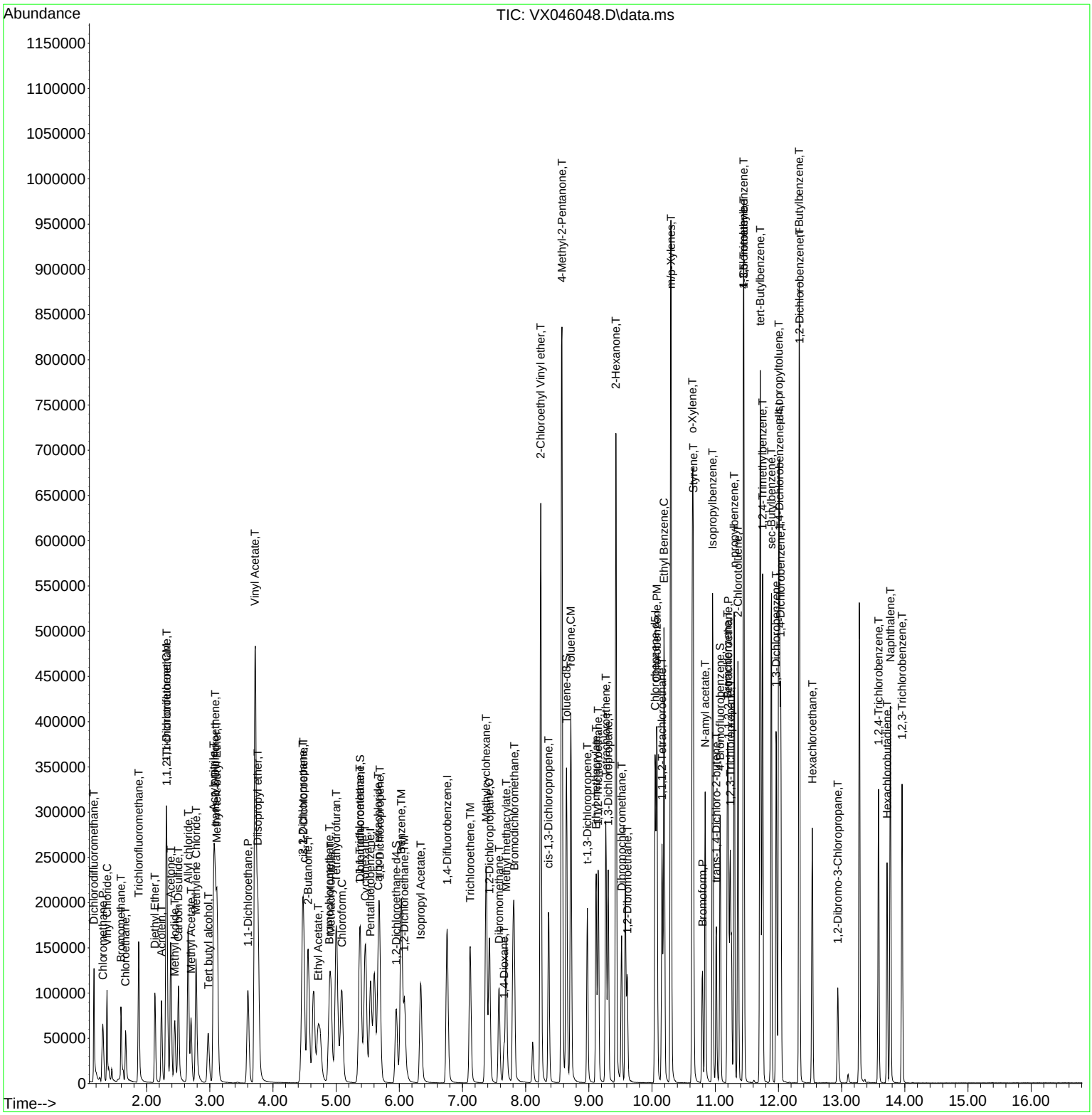
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046048.D
Acq On : 05 May 2025 16:50
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

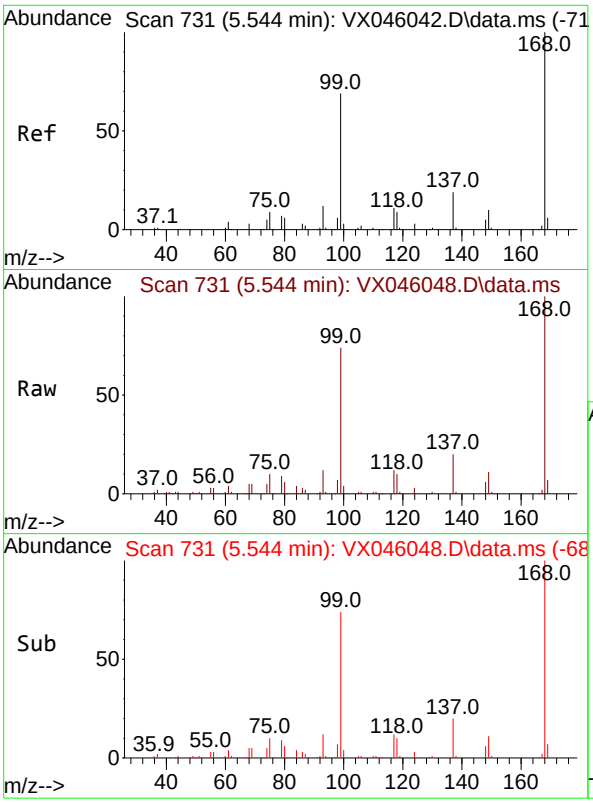
Quant Time: May 06 07:17:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Manual Integrations APPROVED

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

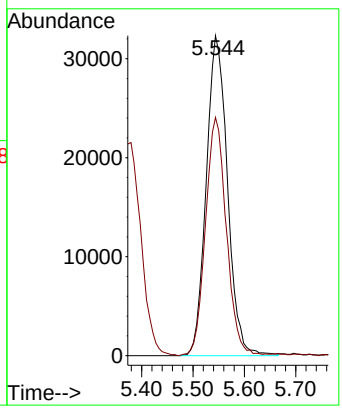




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion:168 Resp: 9258

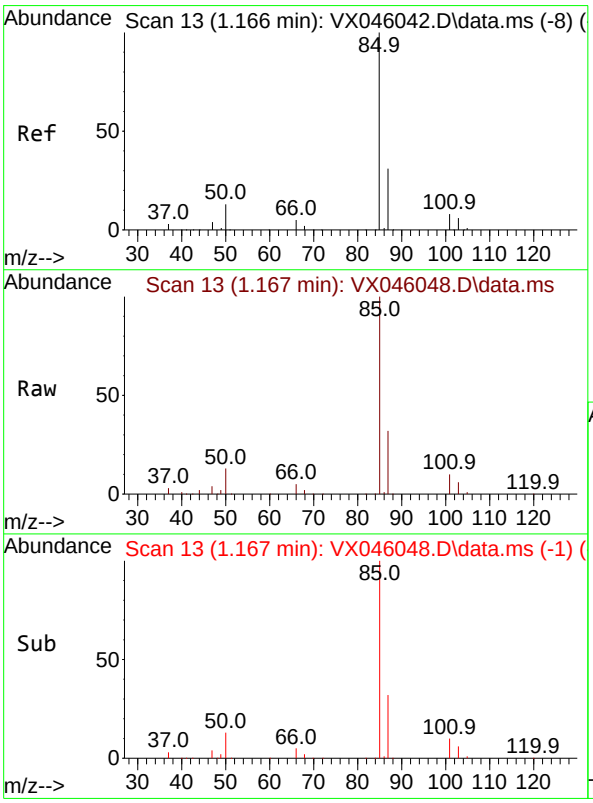
Ion	Ratio	Lower	Upper
168	100		
99	74.5	54.9	82.3



Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Manual Integrations APPROVED

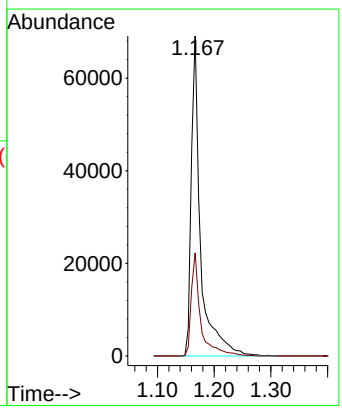
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

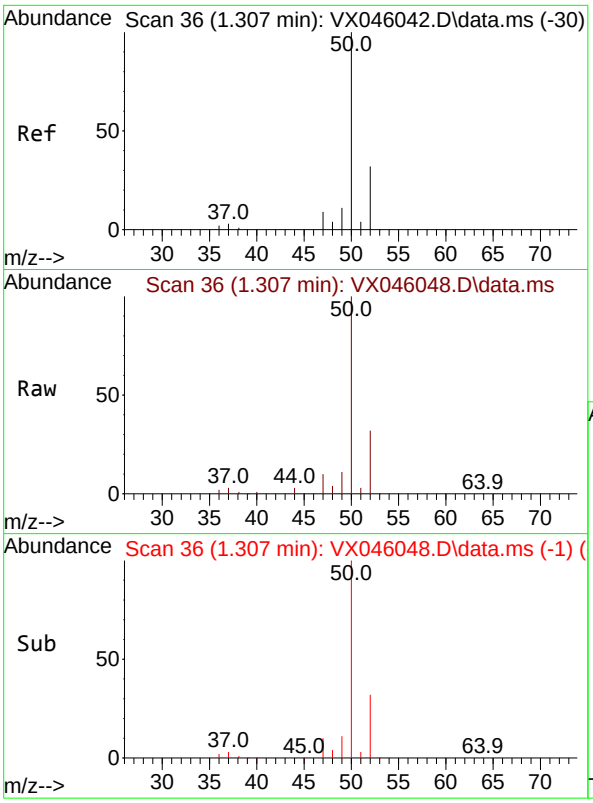


#2
Dichlorodifluoromethane
Concen: 55.594 ug/l
RT: 1.167 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 85 Resp: 78783

Ion	Ratio	Lower	Upper
85	100		
87	32.2	15.7	47.1

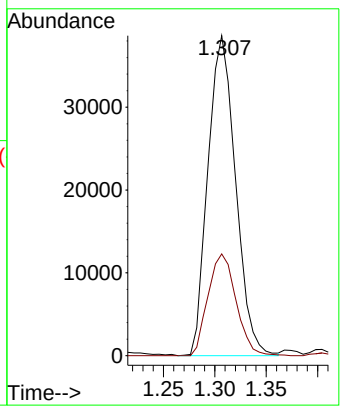




#3
Chloromethane
Concen: 52.592 ug/l
RT: 1.307 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 50 Resp: 7227

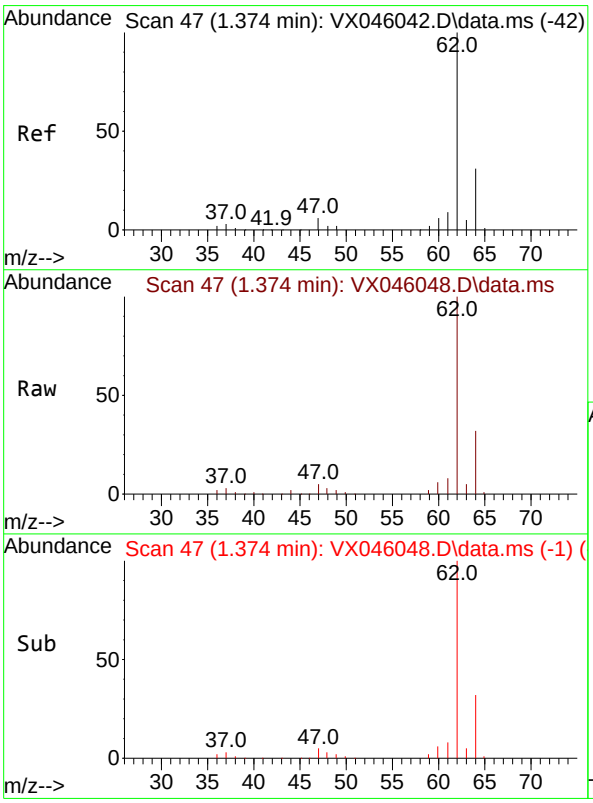
Ion	Ratio	Lower	Upper
50	100		
52	31.8	25.4	38.2



Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Manual Integrations APPROVED

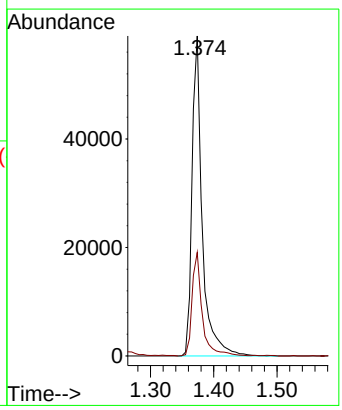
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

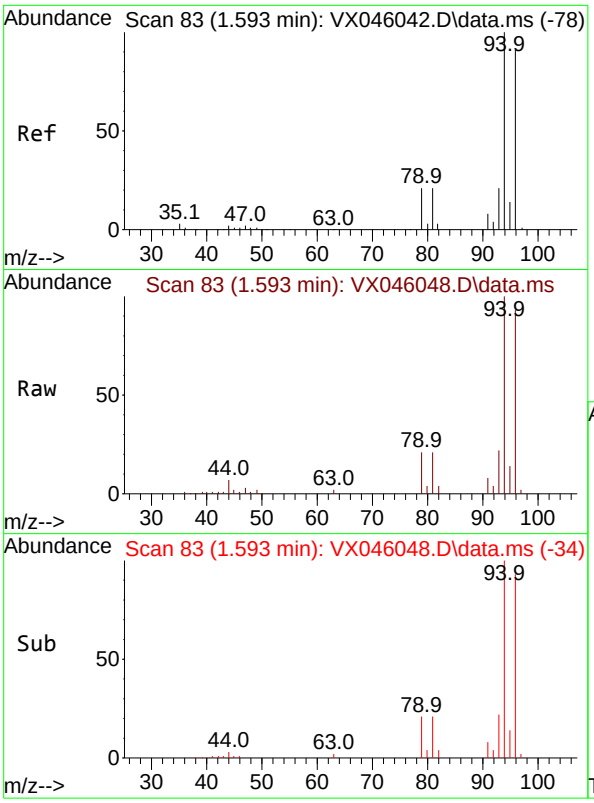


#4
Vinyl Chloride
Concen: 51.598 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 62 Resp: 65994

Ion	Ratio	Lower	Upper
62	100		
64	32.3	25.2	37.8

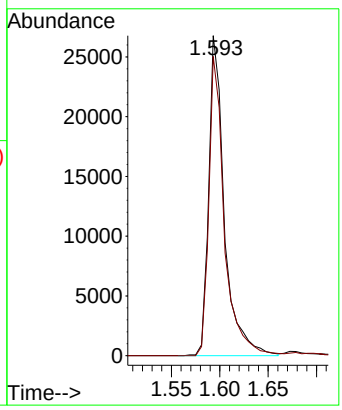




#5
Bromomethane
Concen: 50.627 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 94 Resp: 3003

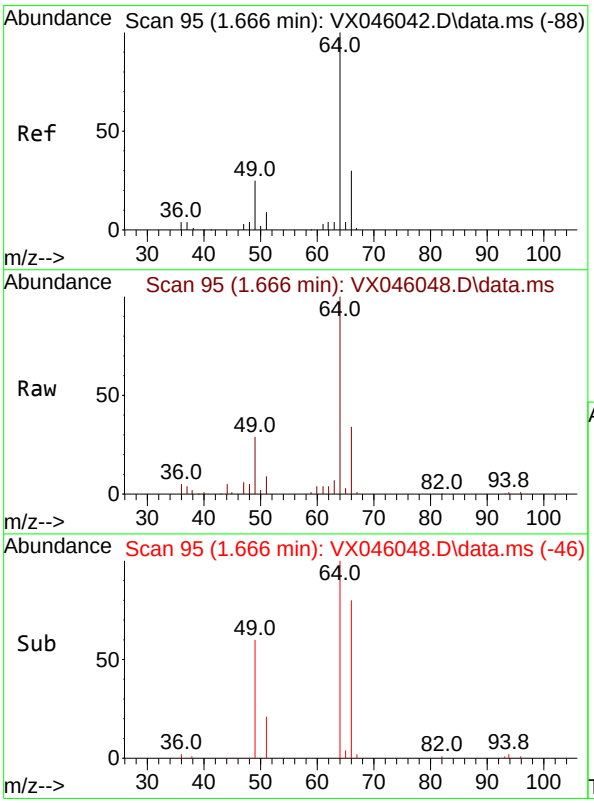
Ion	Ratio	Lower	Upper
94	100		
96	93.5	72.8	109.2



Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Manual Integrations
APPROVED

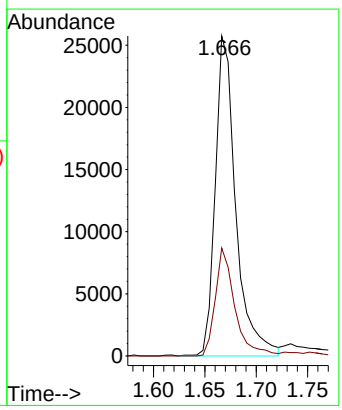
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

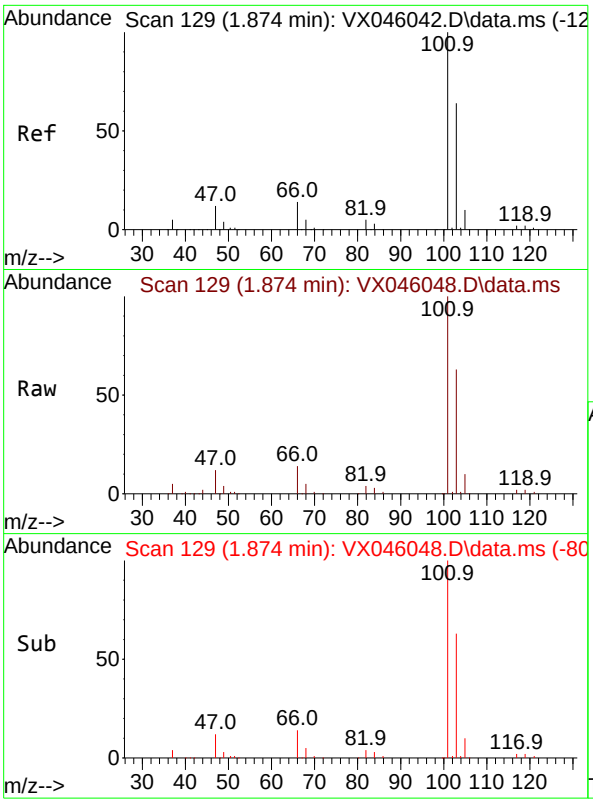


#6
Chloroethane
Concen: 52.271 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 64 Resp: 35690

Ion	Ratio	Lower	Upper
64	100		
66	33.7	24.3	36.5

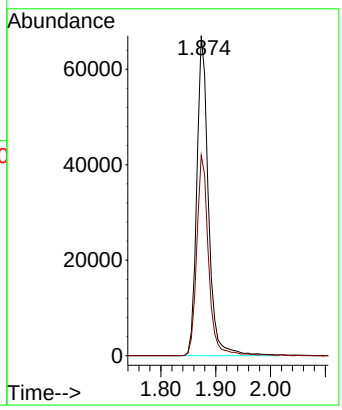




#7
Trichlorofluoromethane
Concen: 52.560 ug/l
RT: 1.874 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion:101 Resp: 9935

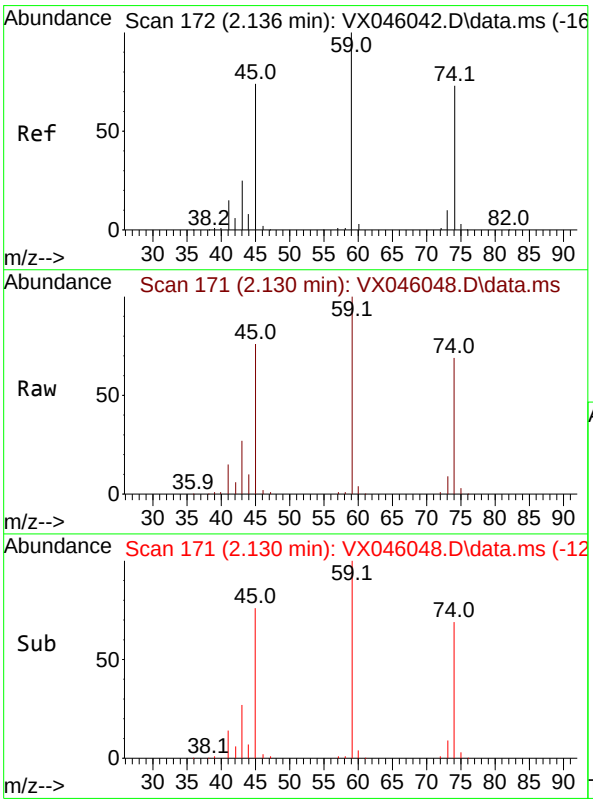
Ion	Ratio	Lower	Upper
101	100		
103	62.6	51.0	76.4



Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Manual Integrations APPROVED

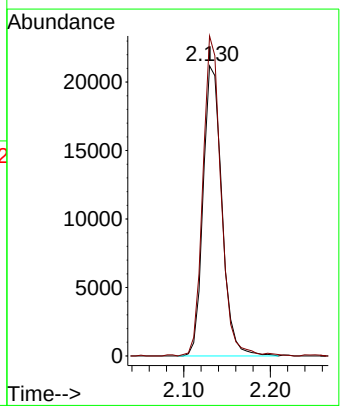
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

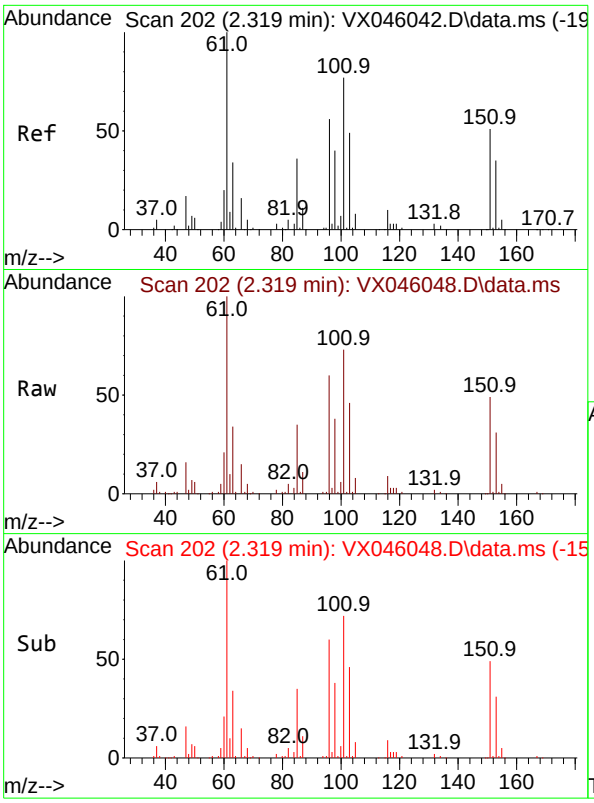


#8
Diethyl Ether
Concen: 49.536 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 74 Resp: 31875

Ion	Ratio	Lower	Upper
74	100		
45	107.1	54.9	164.8

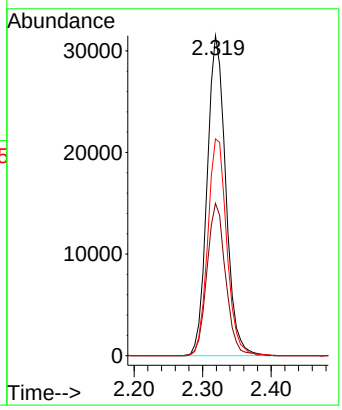




#9
1,1,2-Trichlorotrifluoroethane
Concen: 50.822 ug/l
RT: 2.319 min Scan# 2(
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion:101 Resp: 5945(

Ion	Ratio	Lower	Upper
101	100		
85	47.8	38.6	58.0
151	69.4	55.2	82.8



Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Manual Integrations
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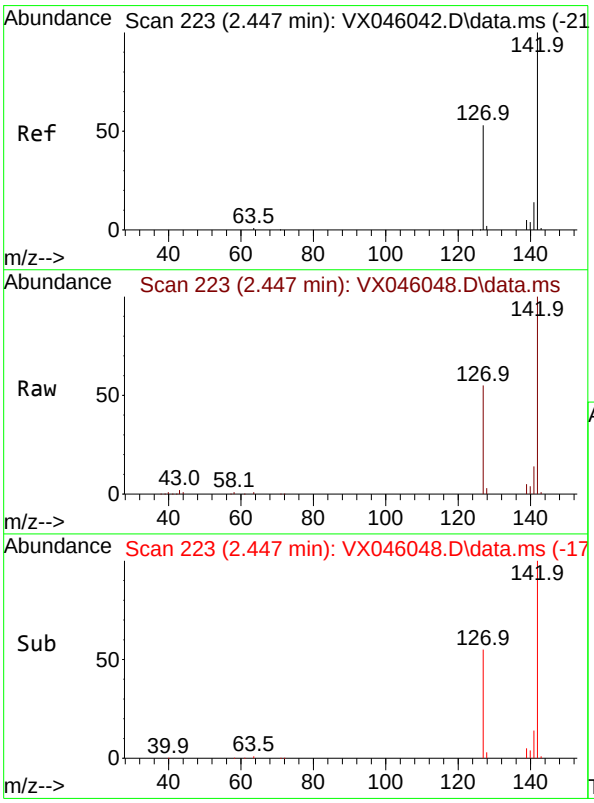
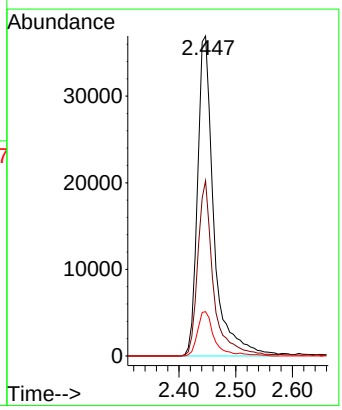
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

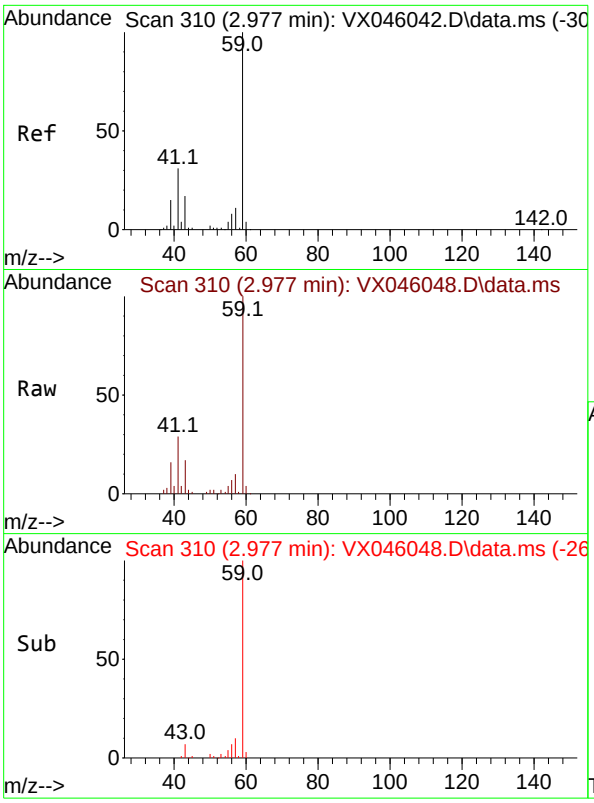


#10
Methyl Iodide
Concen: 53.419 ug/l
RT: 2.447 min Scan# 223
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion:142 Resp: 73940

Ion	Ratio	Lower	Upper
142	100		
127	52.9	41.7	62.5
141	14.4	11.5	17.3





#11
Tert butyl alcohol
Concen: 252.025 ug/l
RT: 2.977 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 59 Resp: 6106

Ion	Ratio	Lower	Upper
59	100		
57	11.1	8.6	12.8

Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Manual Integrations
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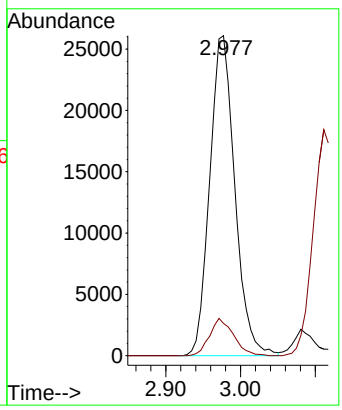
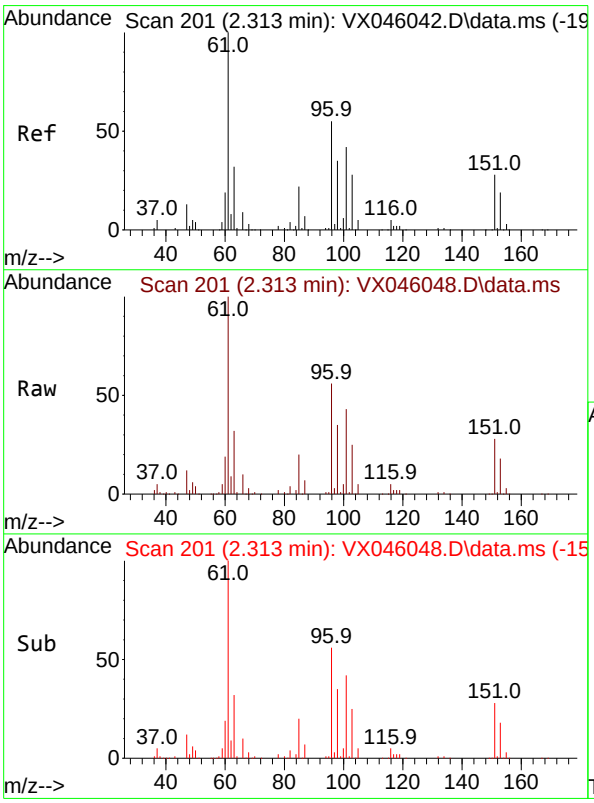
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

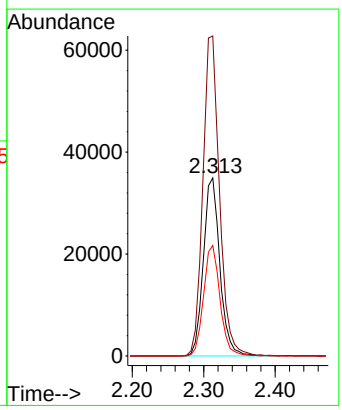


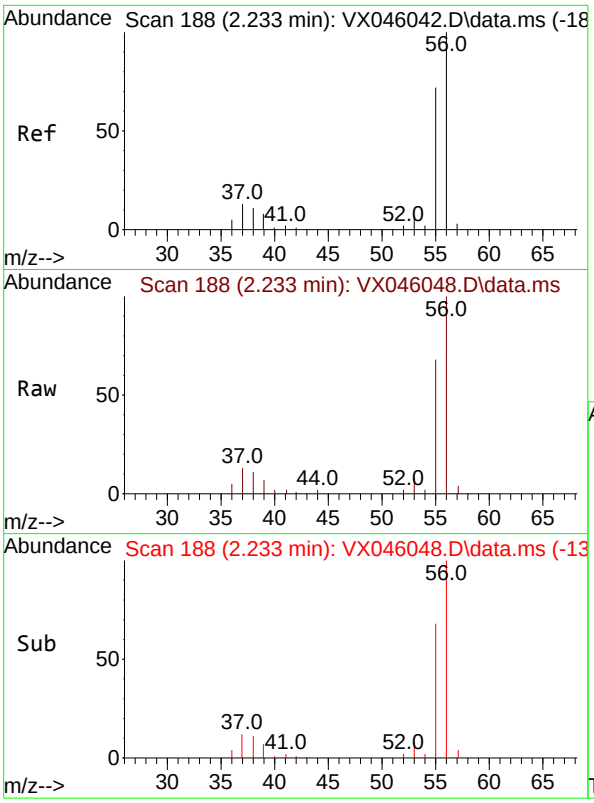


#12
1,1-Dichloroethene
Concen: 51.097 ug/l
RT: 2.313 min Scan# 201
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 96 Resp: 56097

Ion	Ratio	Lower	Upper
96	100		
61	179.7	146.2	219.2
98	62.1	51.0	76.6

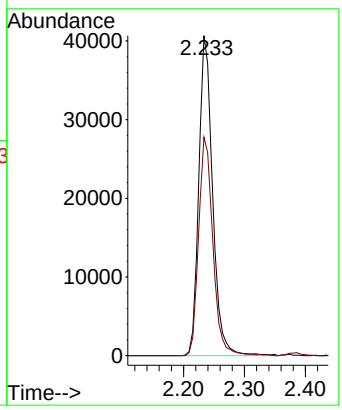




#13
Acrolein
Concen: 232.505 ug/l
RT: 2.233 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 56 Resp: 6415

Ion	Ratio	Lower	Upper
56	100		
55	70.8	56.2	84.4



Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

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Reviewed By :John Carlone 05/06/2025
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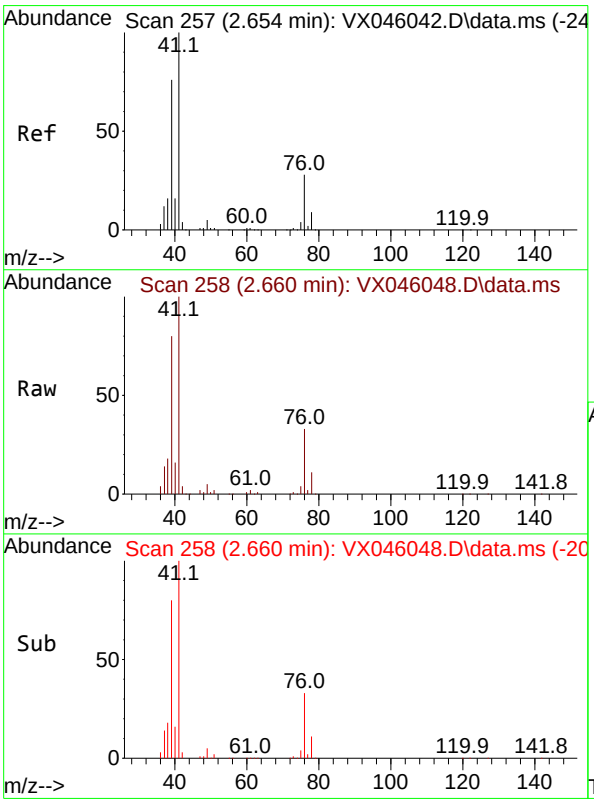
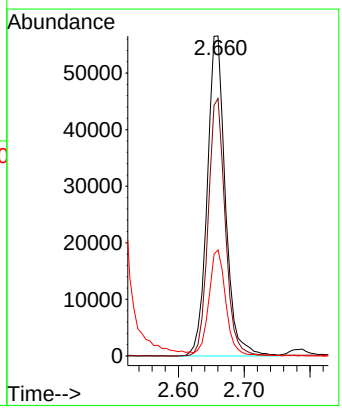
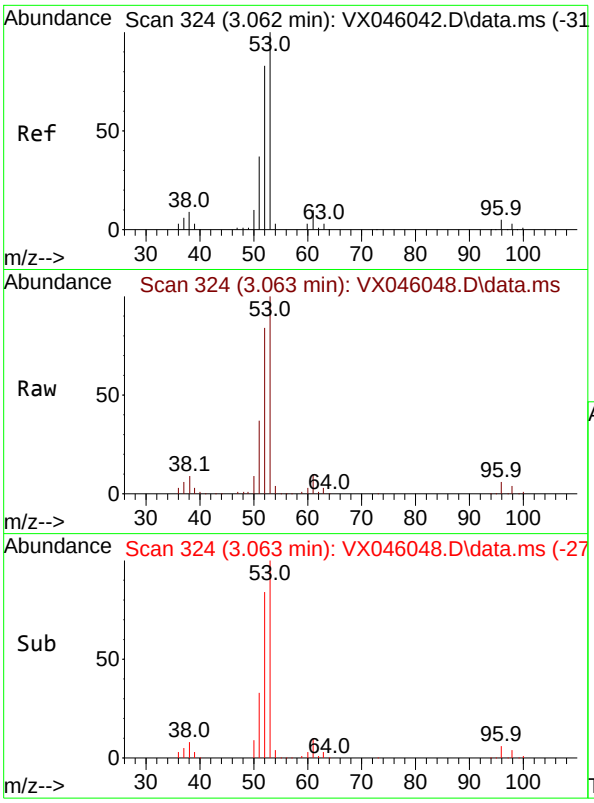


#14
Allyl chloride
Concen: 51.833 ug/l
RT: 2.660 min Scan# 258
Delta R.T. 0.006 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 41 Resp: 108757

Ion	Ratio	Lower	Upper
41	100		
39	75.6	60.6	90.8
76	31.1	24.9	37.3

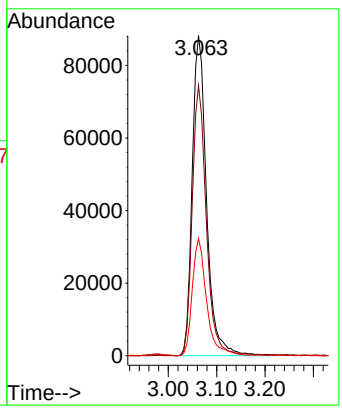




#15
Acrylonitrile
Concen: 262.412 ug/l
RT: 3.063 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 53 Resp: 18180

Ion	Ratio	Lower	Upper
53	100		
52	82.9	65.3	97.9
51	36.5	29.8	44.8



Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Manual Integrations
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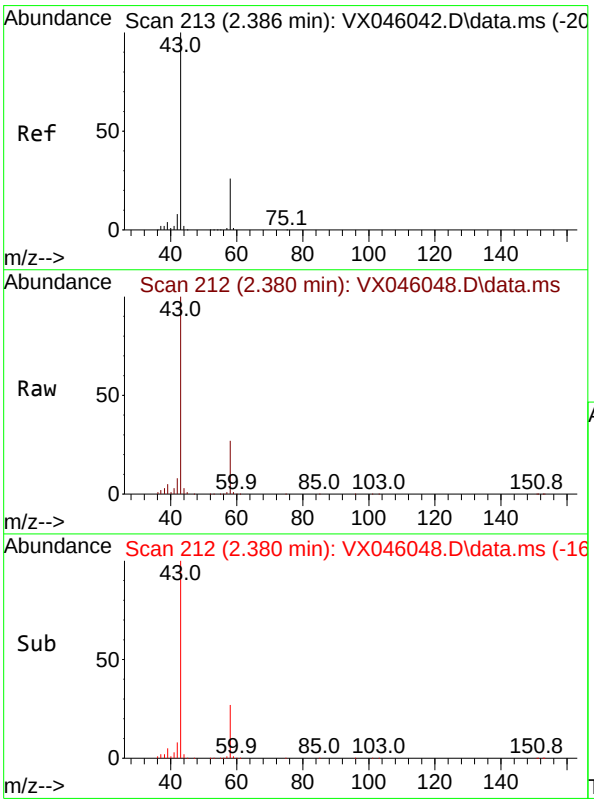
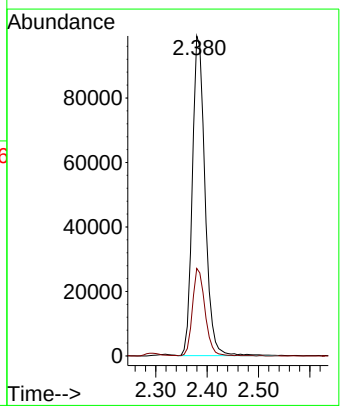
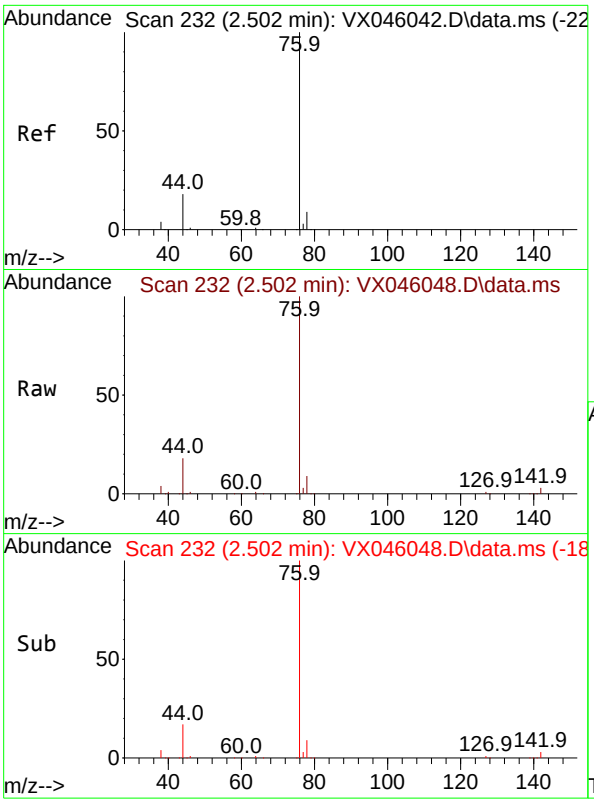


#16
Acetone
Concen: 245.518 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 43 Resp: 169923

Ion	Ratio	Lower	Upper
43	100		
58	27.3	21.2	31.8





#17
Carbon Disulfide
Concen: 50.981 ug/l
RT: 2.502 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 76 Resp: 13269

Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.0	10.4

Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

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Reviewed By :John Carlone 05/06/2025
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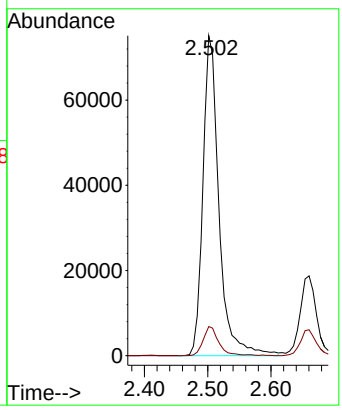
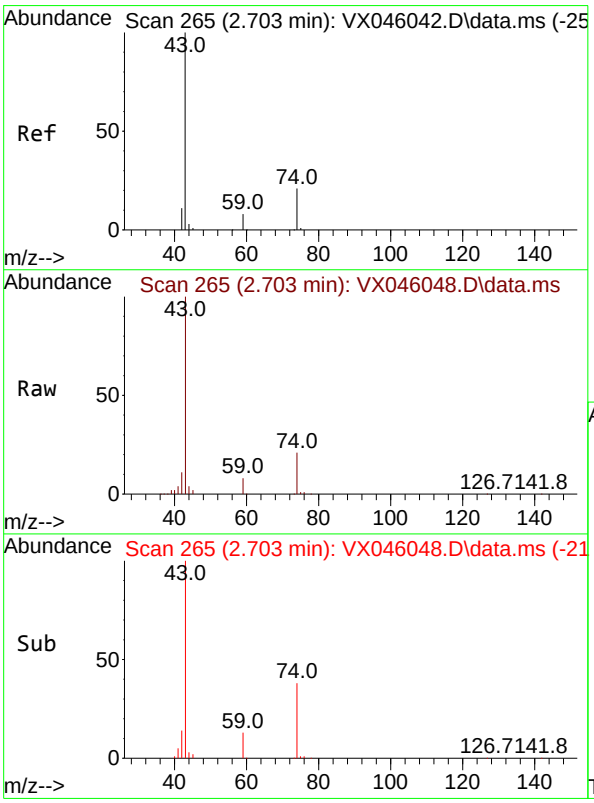
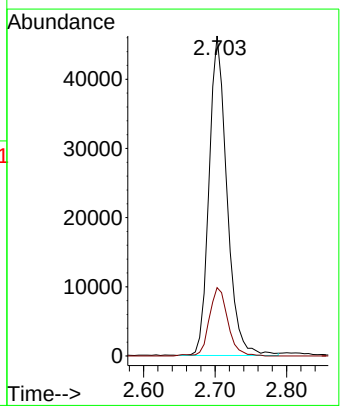


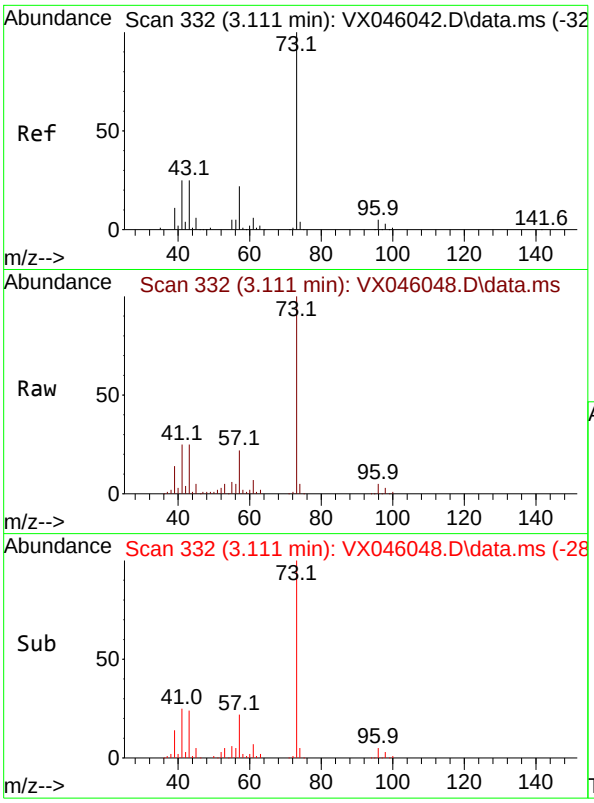


#18
Methyl Acetate
Concen: 49.968 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 43 Resp: 80251

Ion	Ratio	Lower	Upper
43	100		
74	22.1	16.7	25.1

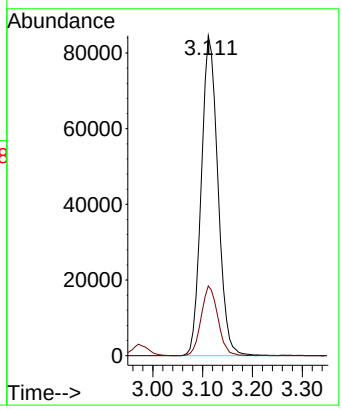




#19
Methyl tert-butyl Ether
Concen: 50.777 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 73 Resp: 19544

Ion	Ratio	Lower	Upper
73	100		
57	21.8	17.7	26.5



Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Manual Integrations
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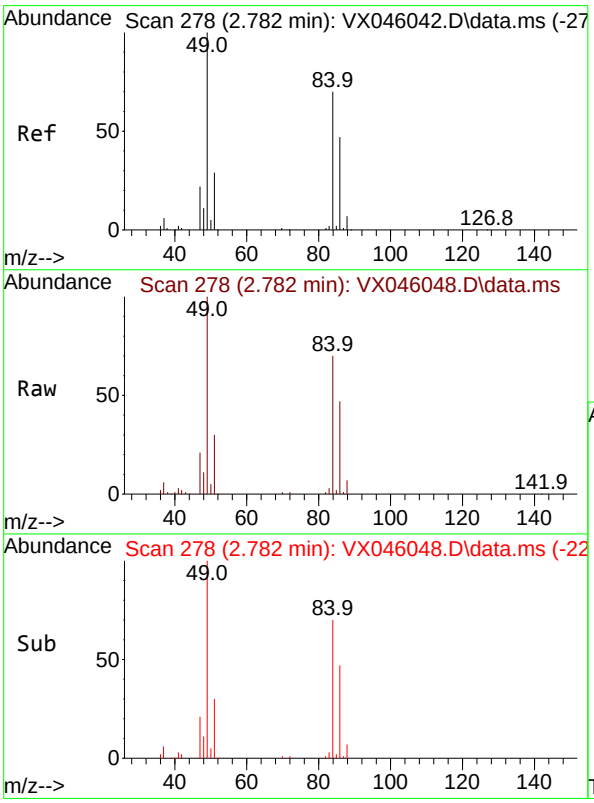
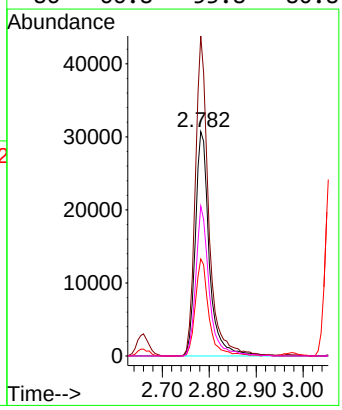
Supervised By :Mahesh Dadoda 05/06/2025

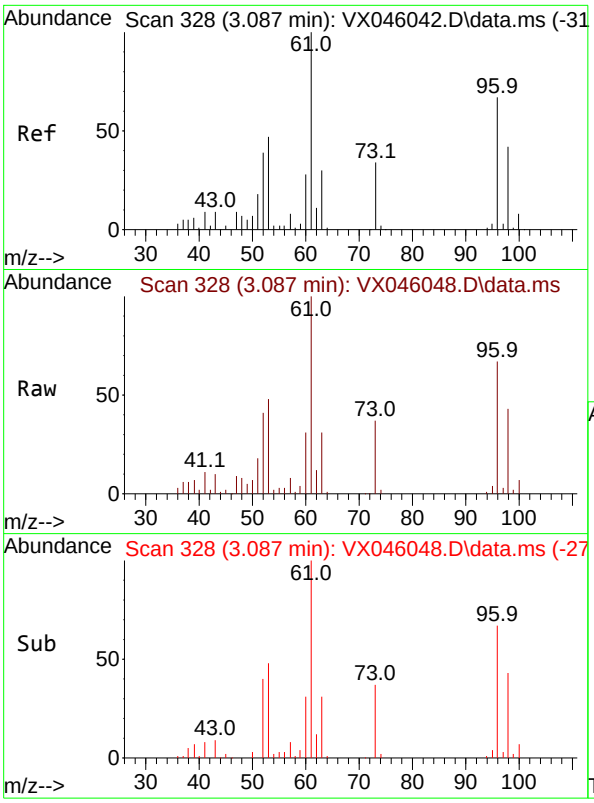


#20
Methylene Chloride
Concen: 47.779 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 84 Resp: 63369

Ion	Ratio	Lower	Upper
84	100		
49	142.7	113.9	170.9
51	43.3	33.5	50.3
86	66.8	53.8	80.8

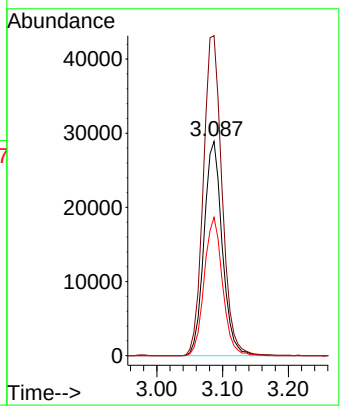




#21
trans-1,2-Dichloroethene
Concen: 50.513 ug/l
RT: 3.087 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 96 Resp: 5577

Ion	Ratio	Lower	Upper
96	100		
61	149.3	119.5	179.3
98	64.6	50.0	75.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

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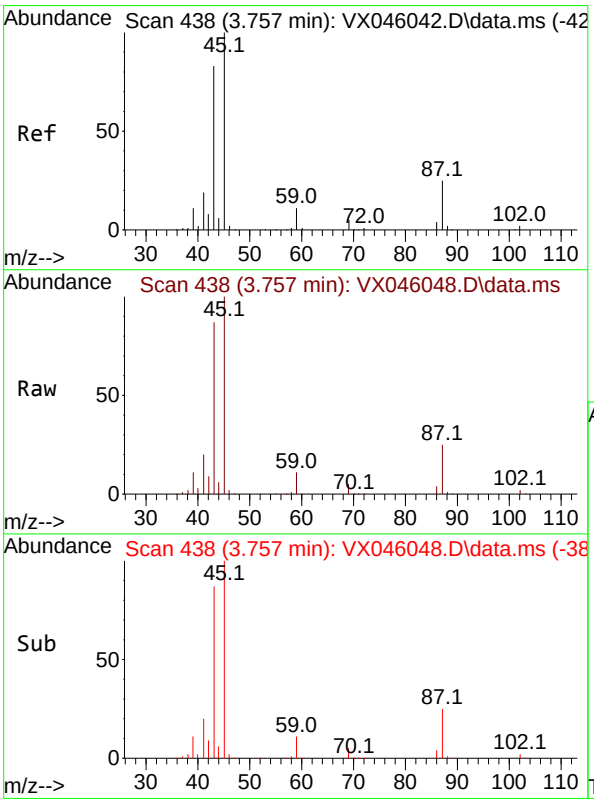
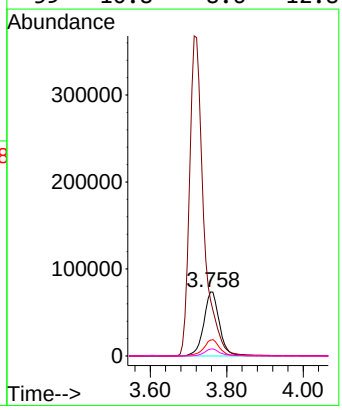
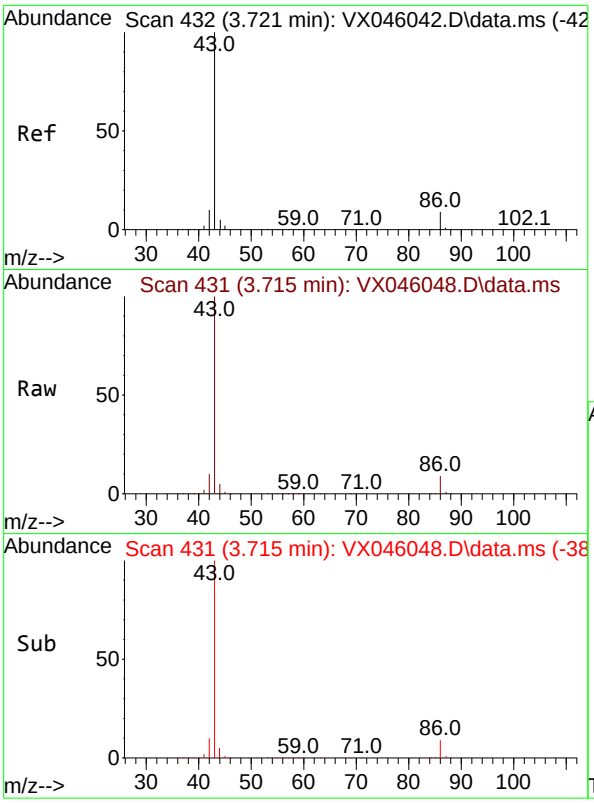


#22
Diisopropyl ether
Concen: 51.800 ug/l
RT: 3.757 min Scan# 438
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 45 Resp: 209946

Ion	Ratio	Lower	Upper
45	100		
43	86.9	66.6	100.0
87	24.8	19.8	29.6
59	10.8	8.6	12.8





#23
Vinyl Acetate
Concen: 265.585 ug/l
RT: 3.715 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 43 Resp: 94674

Ion	Ratio	Lower	Upper
43	100		
86	9.4	7.5	11.3

Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Manual Integrations
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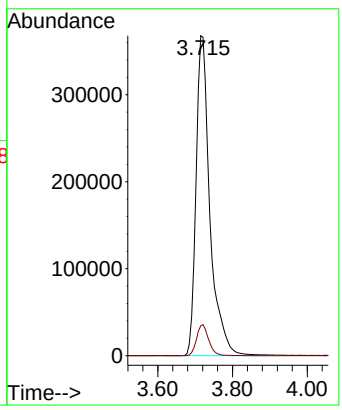
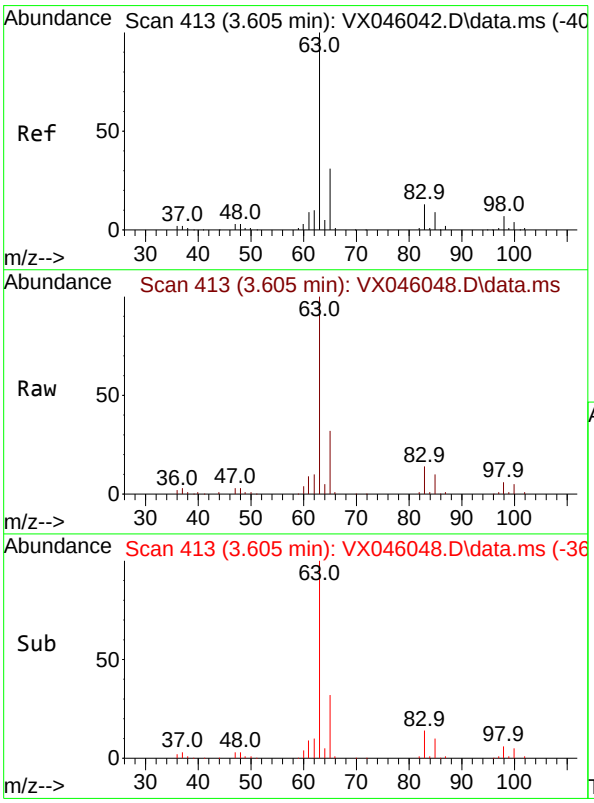
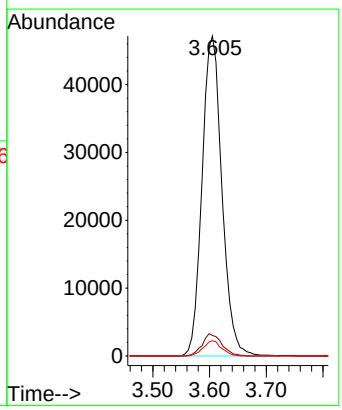


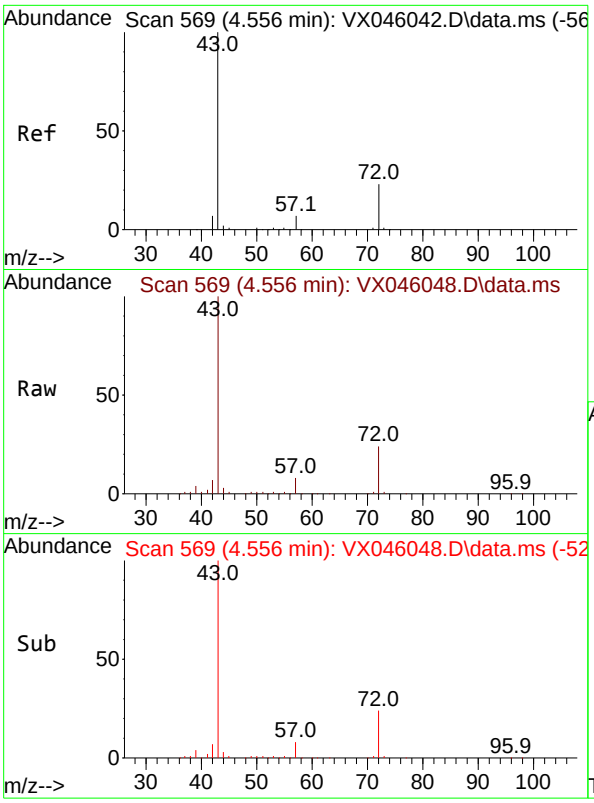


#24
1,1-Dichloroethane
Concen: 50.825 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 63 Resp: 114733

Ion	Ratio	Lower	Upper
63	100		
98	6.4	3.6	10.8
100	4.8	2.1	6.3





#25
2-Butanone
Concen: 257.110 ug/l
RT: 4.556 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 43 Resp: 25833

Ion	Ratio	Lower	Upper
43	100		
72	24.3	18.4	27.6

Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Manual Integrations
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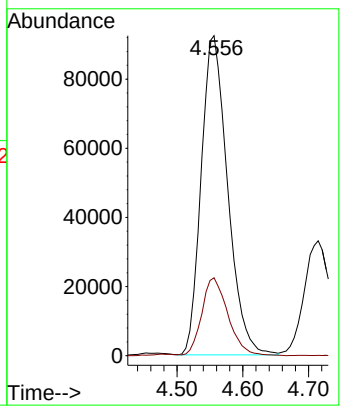
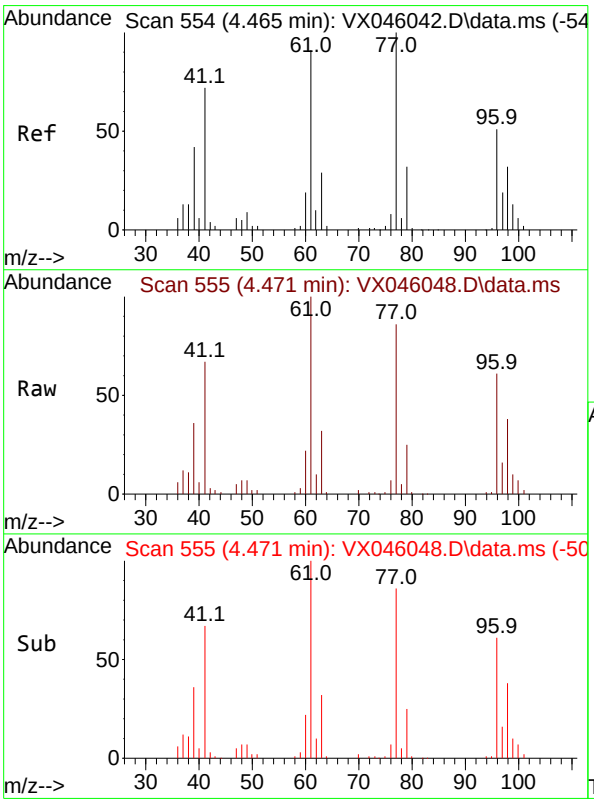
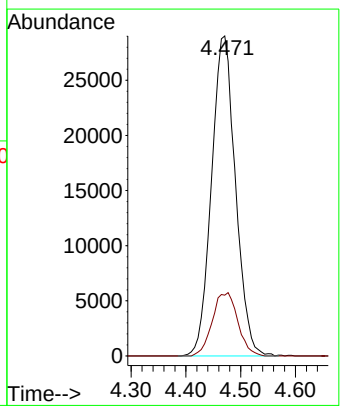


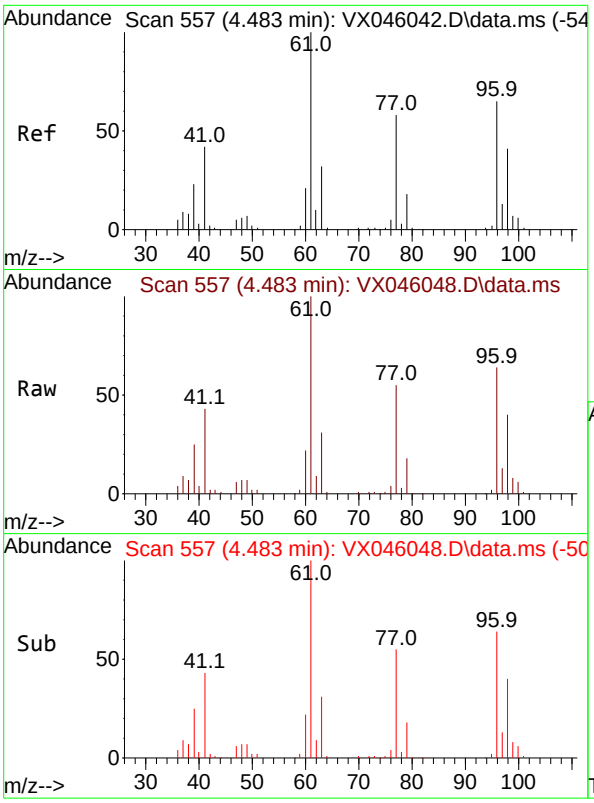


#26
2,2-Dichloropropane
Concen: 49.934 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 77 Resp: 88229

Ion	Ratio	Lower	Upper
77	100		
97	21.0	10.5	31.5

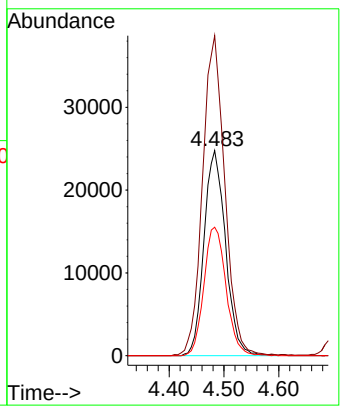




#27
cis-1,2-Dichloroethene
Concen: 50.956 ug/l
RT: 4.483 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 96 Resp: 6772

Ion	Ratio	Lower	Upper
96	100		
61	160.7	0.0	322.8
98	64.4	0.0	129.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

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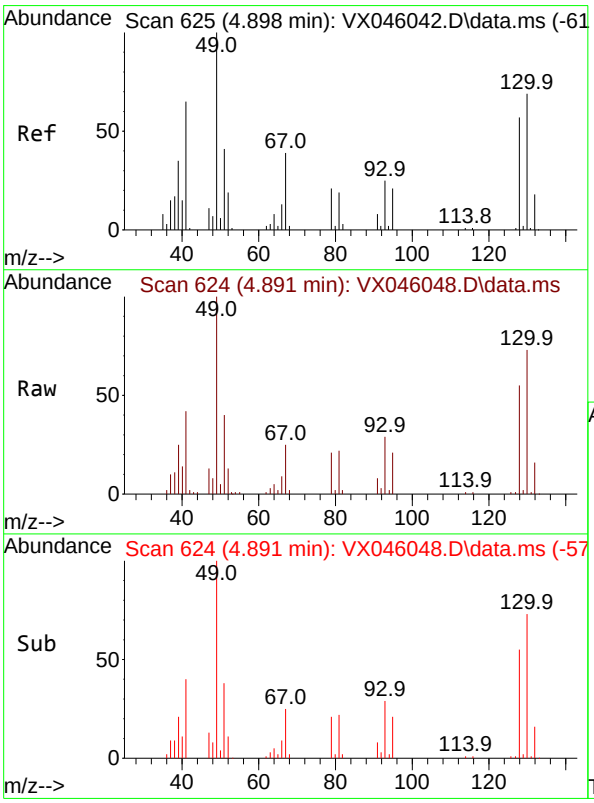
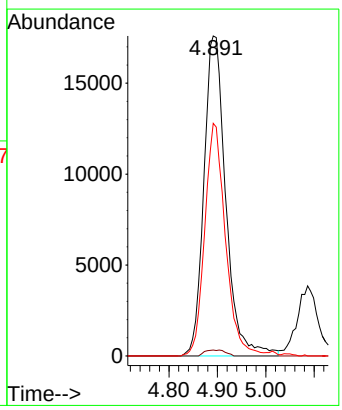
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

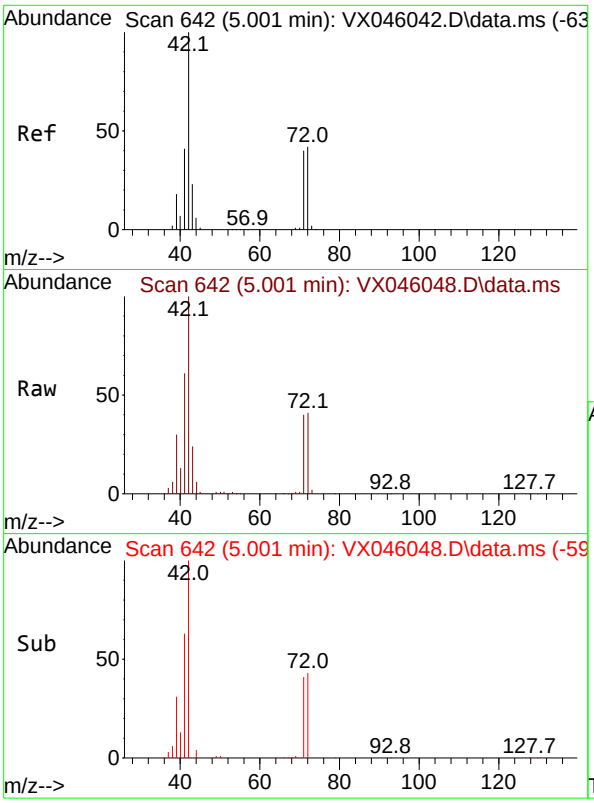


#28
Bromochloromethane
Concen: 50.975 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 49 Resp: 55390

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	4.0
130	68.7	56.2	84.2





#29
Tetrahydrofuran
Concen: 259.958 ug/l
RT: 5.001 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 42 Resp: 16367

Ion	Ratio	Lower	Upper
42	100		
72	42.0	33.7	50.5
71	38.5	31.4	47.2

Instrument :
MSVOA_X
ClientSampleId :
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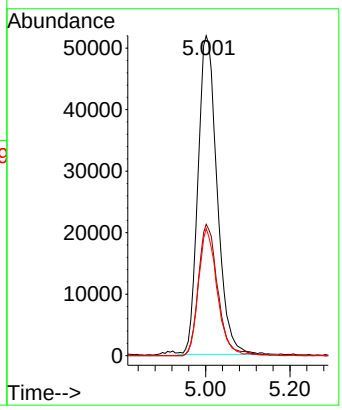
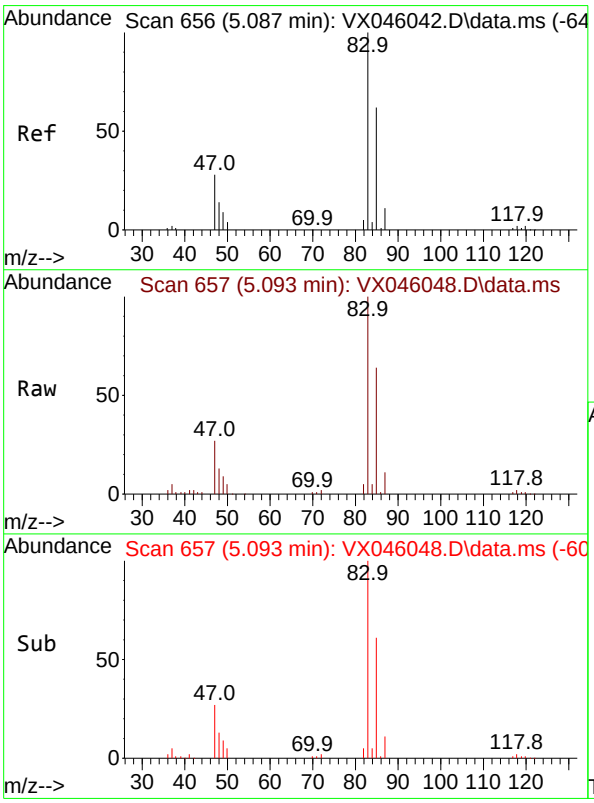
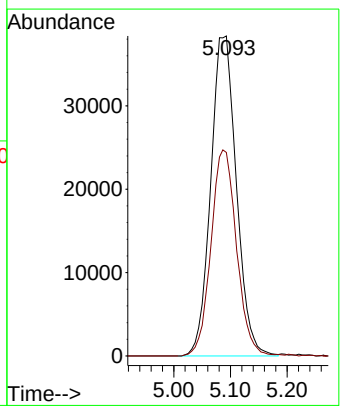


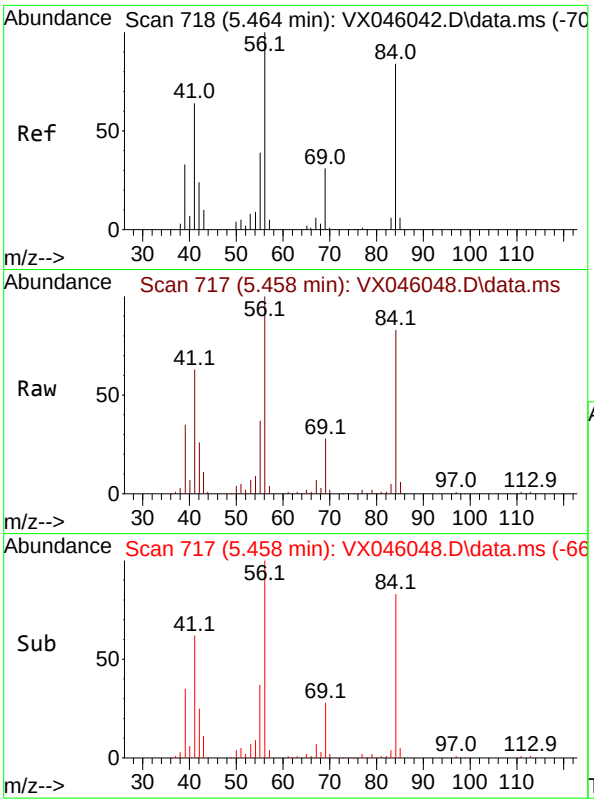


#30
Chloroform
Concen: 51.332 ug/l
RT: 5.093 min Scan# 657
Delta R.T. 0.006 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 83 Resp: 120782

Ion	Ratio	Lower	Upper
83	100		
85	63.6	49.3	73.9

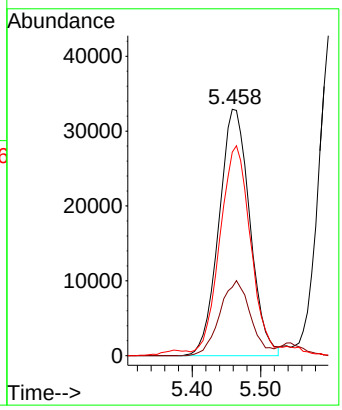




#31
Cyclohexane
Concen: 50.147 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 56 Resp: 10315

Ion	Ratio	Lower	Upper
56	100		
69	27.8	24.4	36.6
84	80.5	66.9	100.3



Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

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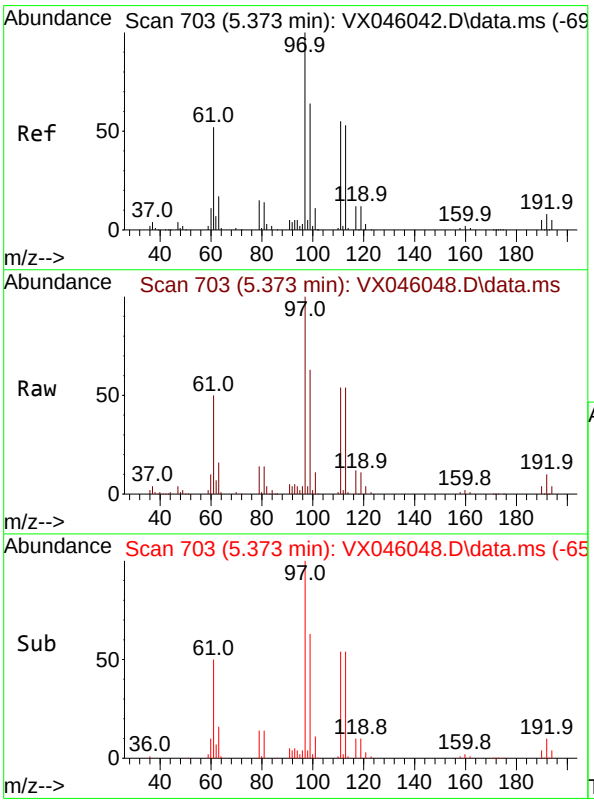
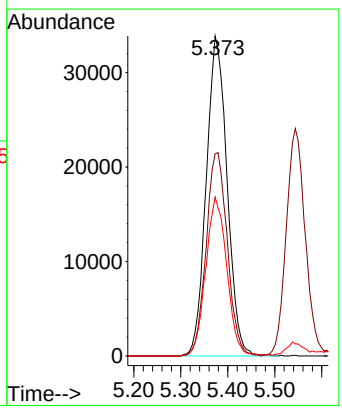
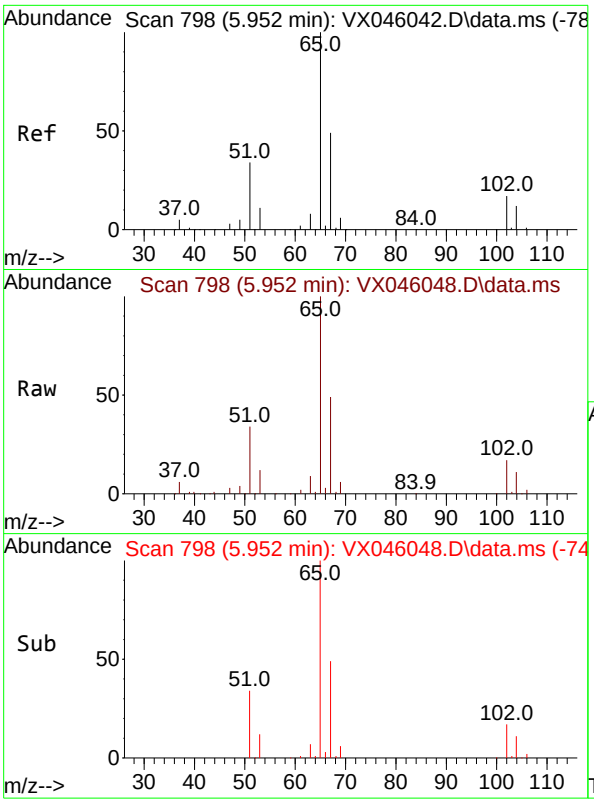


#32
1,1,1-Trichloroethane
Concen: 51.108 ug/l
RT: 5.373 min Scan# 703
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 97 Resp: 104243

Ion	Ratio	Lower	Upper
97	100		
99	64.5	51.8	77.6
61	50.2	40.1	60.1

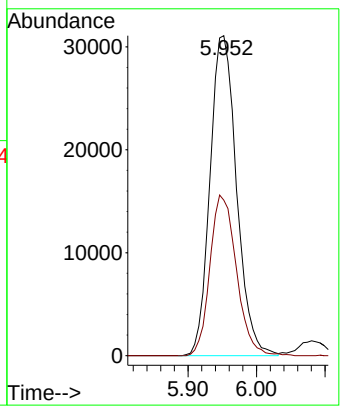




#33
1,2-Dichloroethane-d4
Concen: 48.509 ug/l
RT: 5.952 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 65 Resp: 8373

Ion	Ratio	Lower	Upper
65	100		
67	50.0	0.0	99.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

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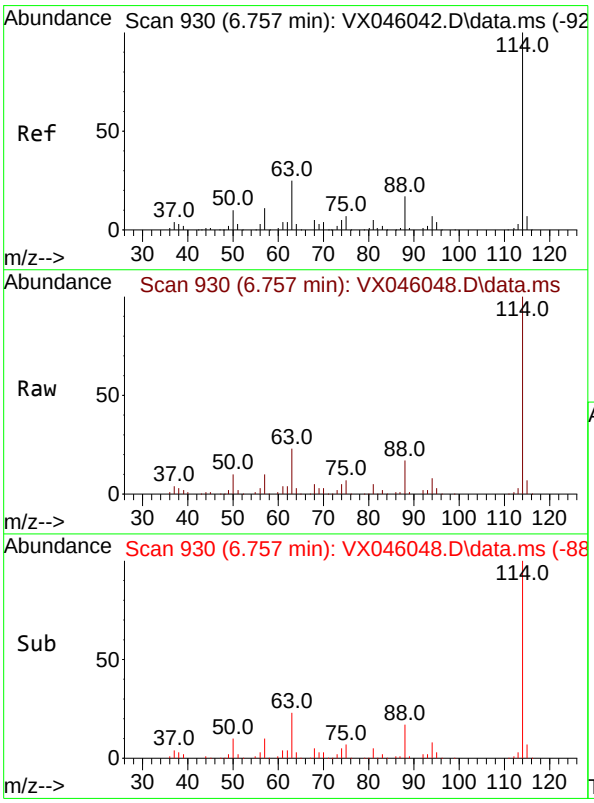
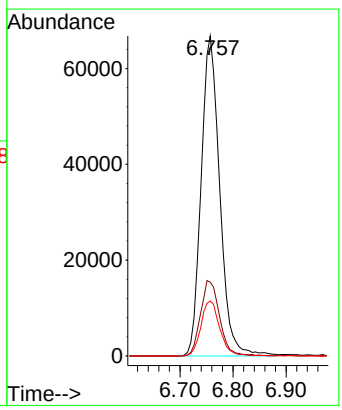
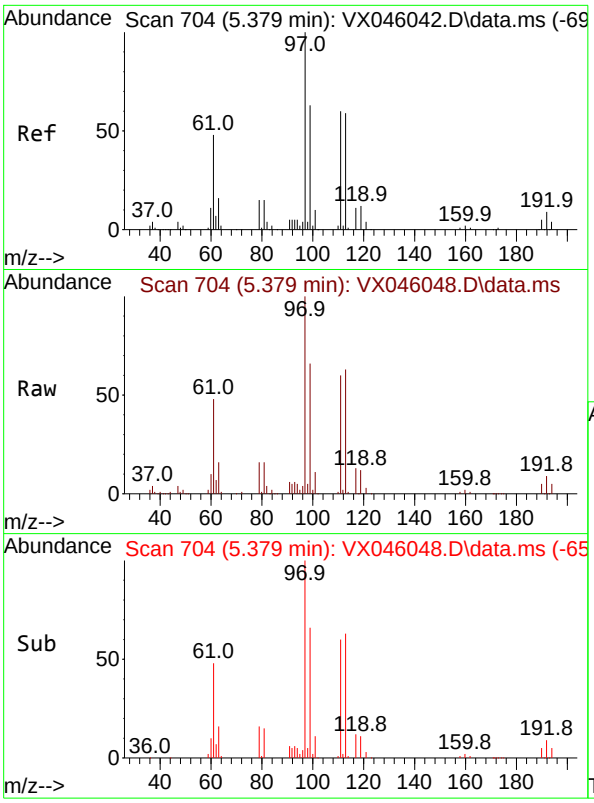


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion:114 Resp: 162651

Ion	Ratio	Lower	Upper
114	100		
63	23.1	0.0	49.2
88	17.2	0.0	33.6

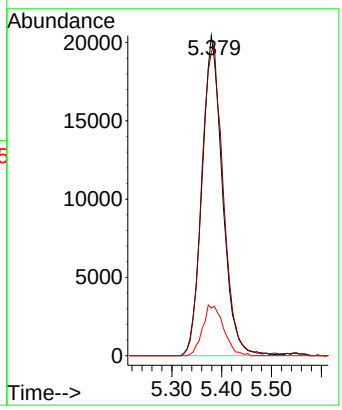




#35
Dibromofluoromethane
Concen: 49.683 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion:113 Resp: 5819

Ion	Ratio	Lower	Upper
113	100		
111	102.1	83.1	124.7
192	16.2	13.3	19.9



Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

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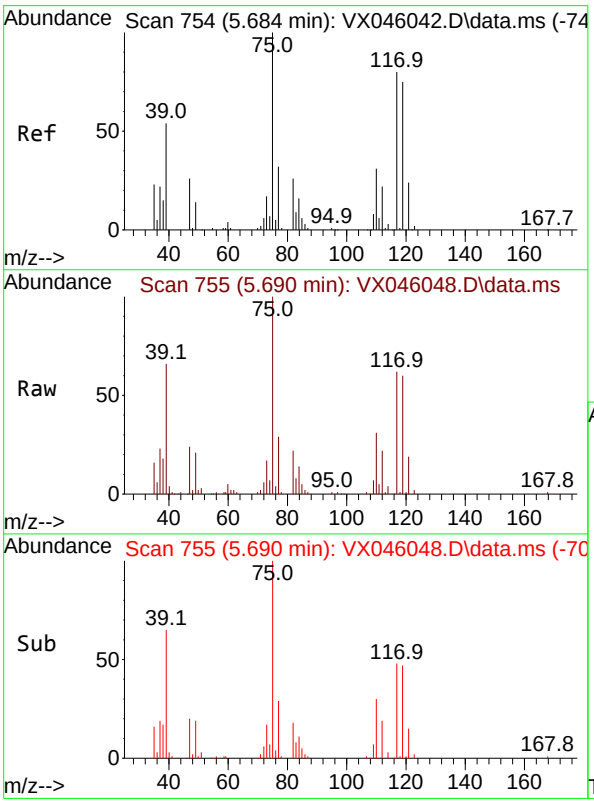
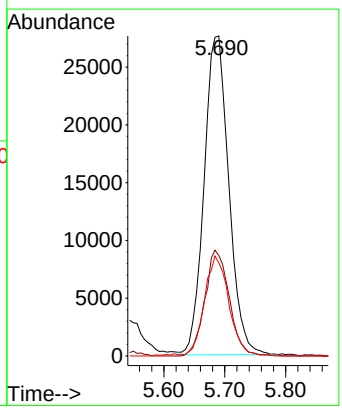
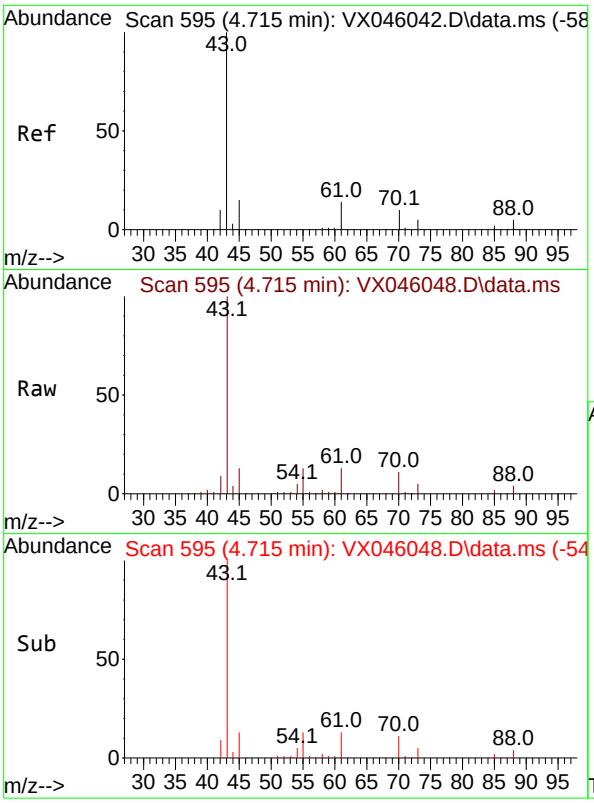


#36
1,1-Dichloropropene
Concen: 49.521 ug/l
RT: 5.690 min Scan# 755
Delta R.T. 0.006 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 75 Resp: 77931

Ion	Ratio	Lower	Upper
75	100		
110	32.7	16.3	48.9
77	31.1	24.3	36.5

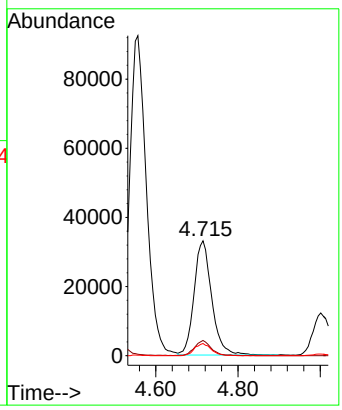




#37
Ethyl Acetate
Concen: 50.714 ug/l
RT: 4.715 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 43 Resp: 9860

Ion	Ratio	Lower	Upper
43	100		
61	12.6	10.3	15.5
70	10.0	7.9	11.9



Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

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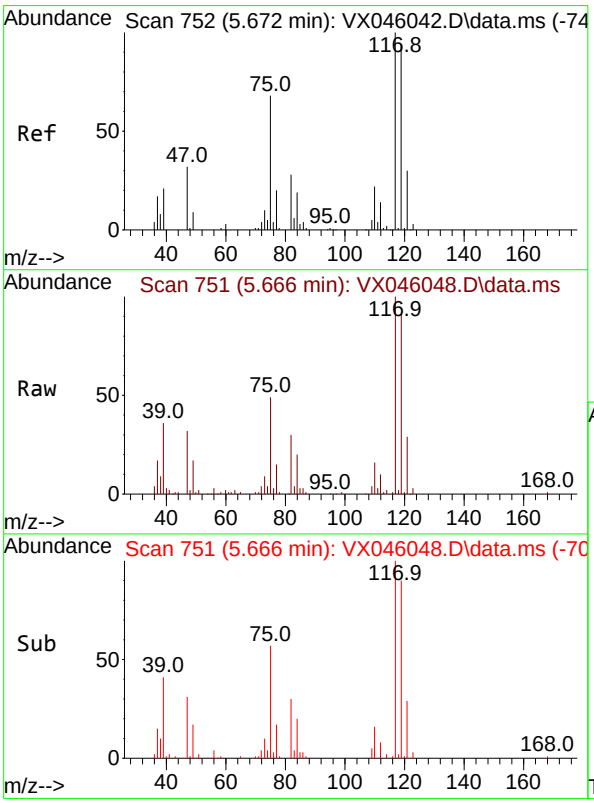
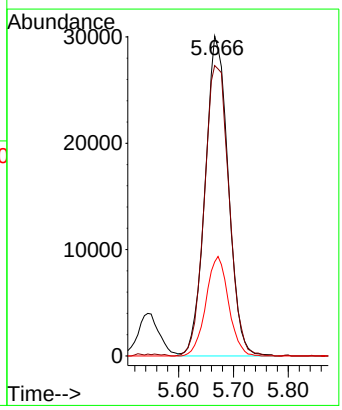
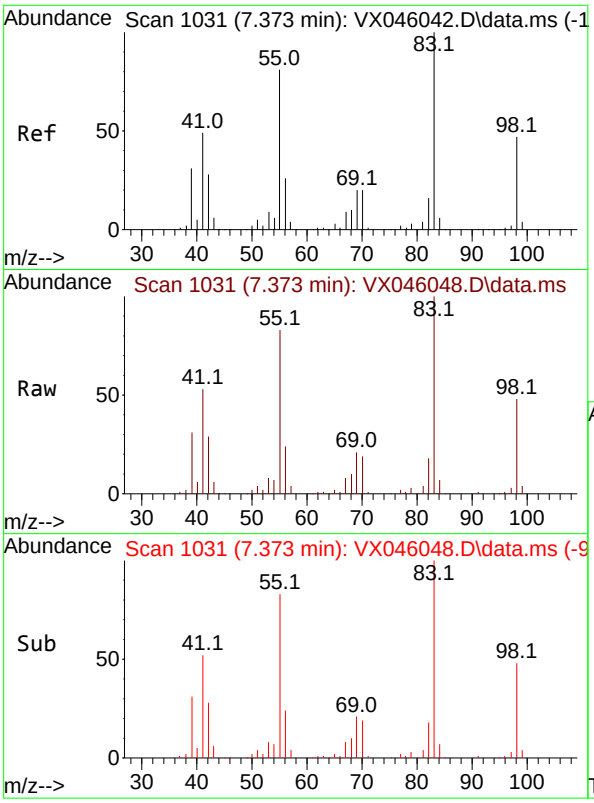


#38
Carbon Tetrachloride
Concen: 49.825 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion:117 Resp: 88100

Ion	Ratio	Lower	Upper
117	100		
119	90.7	75.2	112.8
121	29.4	24.2	36.4

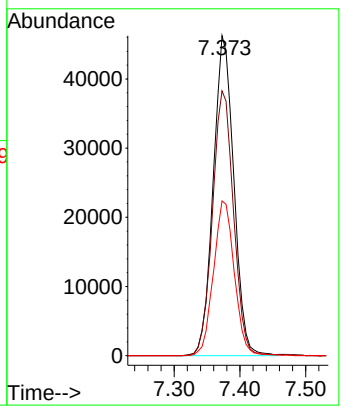




#39
Methylcyclohexane
Concen: 49.757 ug/l
RT: 7.373 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 83 Resp: 10080

Ion	Ratio	Lower	Upper
83	100		
55	82.7	64.7	97.1
98	48.3	37.4	56.2



Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

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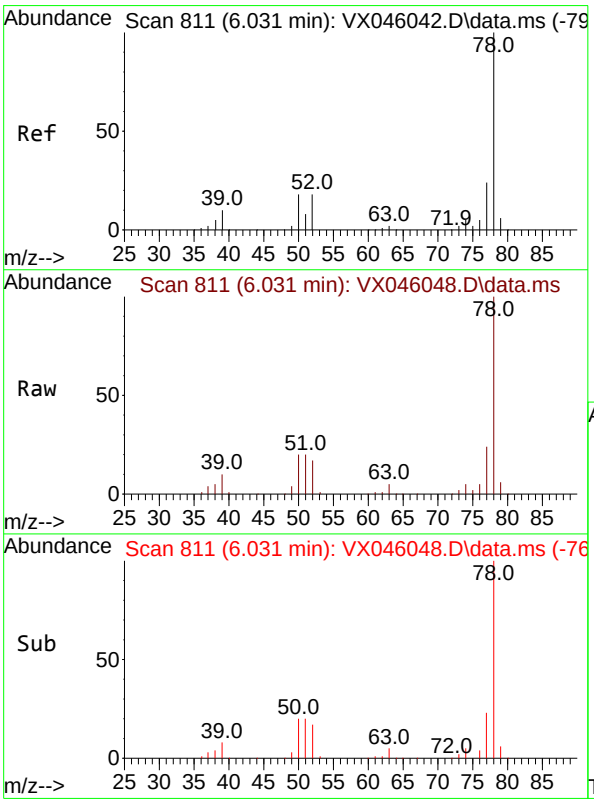
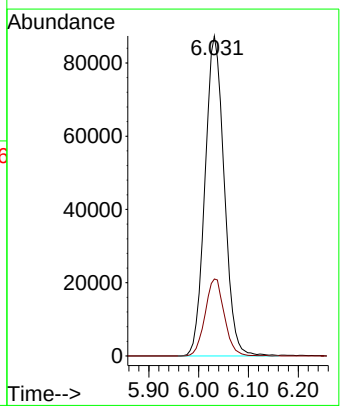
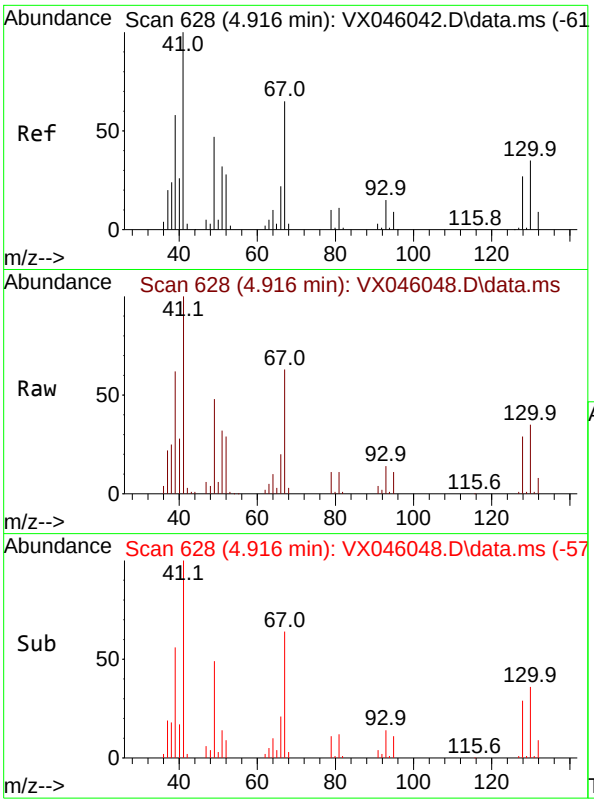


#40
Benzene
Concen: 50.759 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 78 Resp: 233977

Ion	Ratio	Lower	Upper
78	100		
77	24.0	19.0	28.4

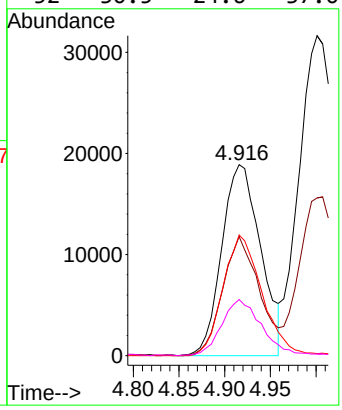




#41
Methacrylonitrile
Concen: 55.076 ug/l
RT: 4.916 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 41 Resp: 5601

Ion	Ratio	Lower	Upper
41	100		
39	58.7	47.2	70.8
67	63.7	50.7	76.1
52	30.5	24.6	37.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

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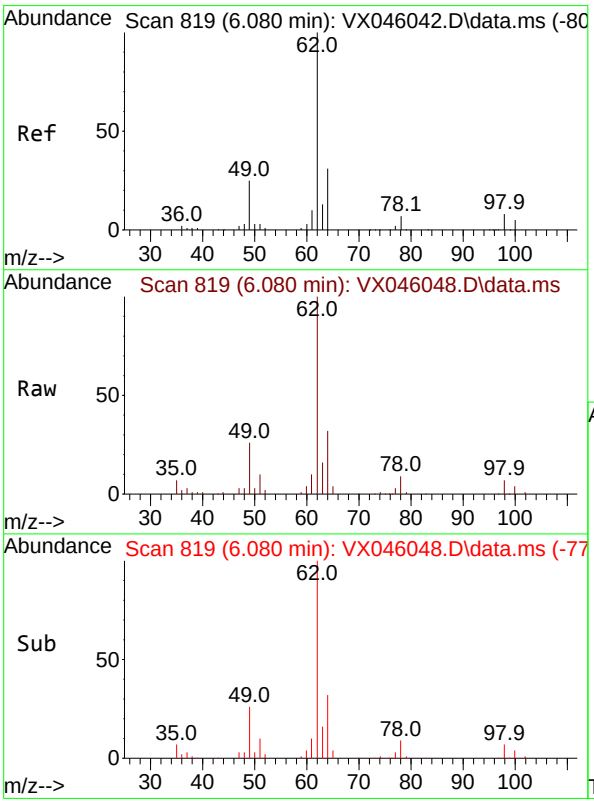
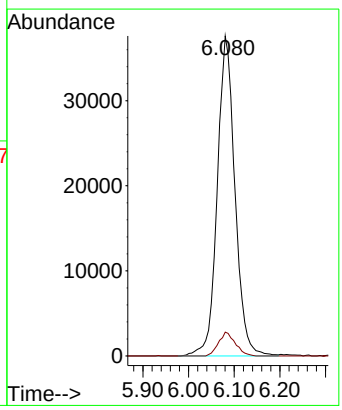
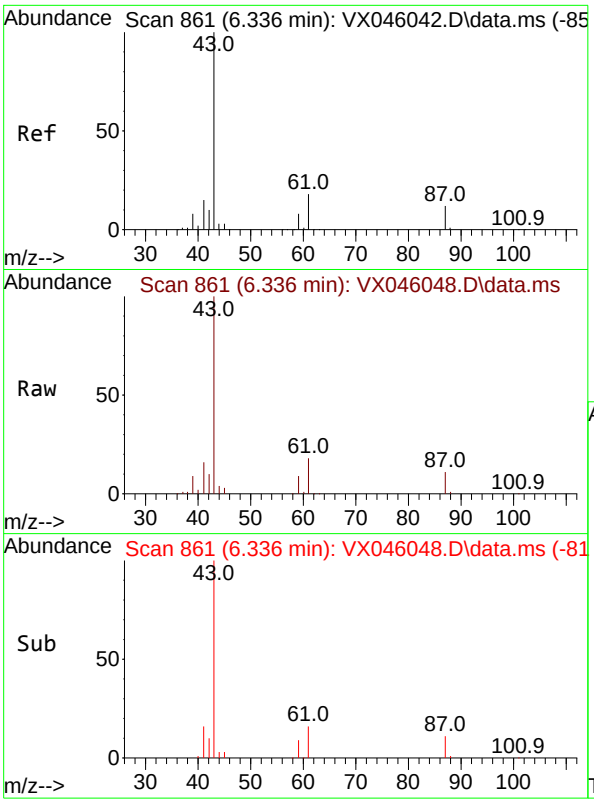


#42
1,2-Dichloroethane
Concen: 50.861 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 62 Resp: 101185

Ion	Ratio	Lower	Upper
62	100		
98	7.1	0.0	15.2

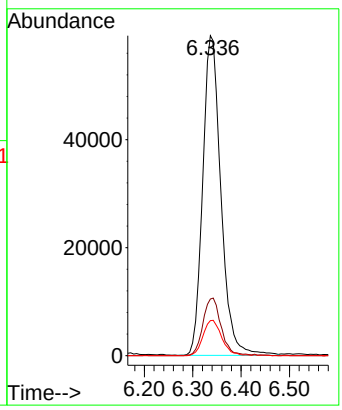




#43
Isopropyl Acetate
Concen: 52.195 ug/l
RT: 6.336 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 43 Resp: 15481

Ion	Ratio	Lower	Upper
43	100		
61	17.9	14.3	21.5
87	11.4	9.5	14.3



Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Manual Integrations
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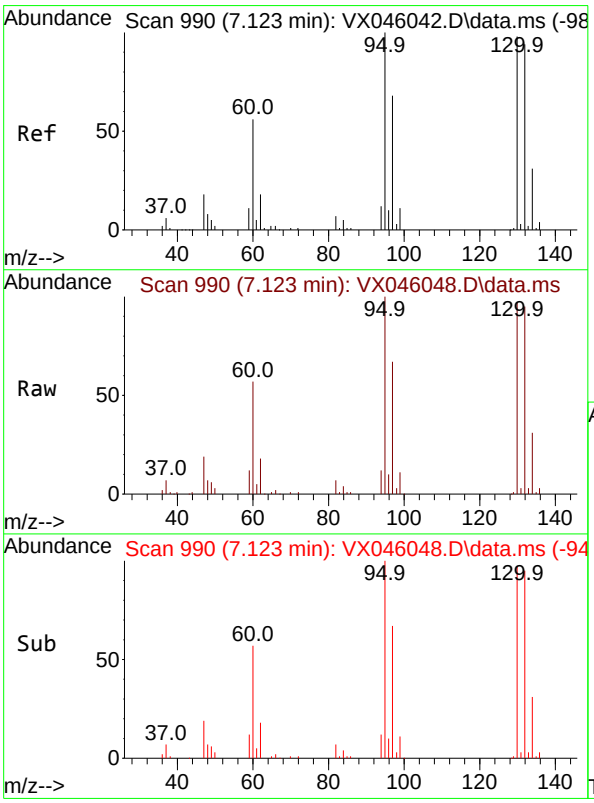
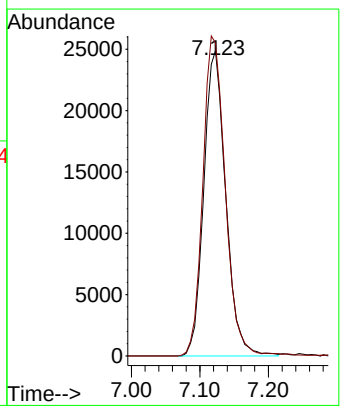
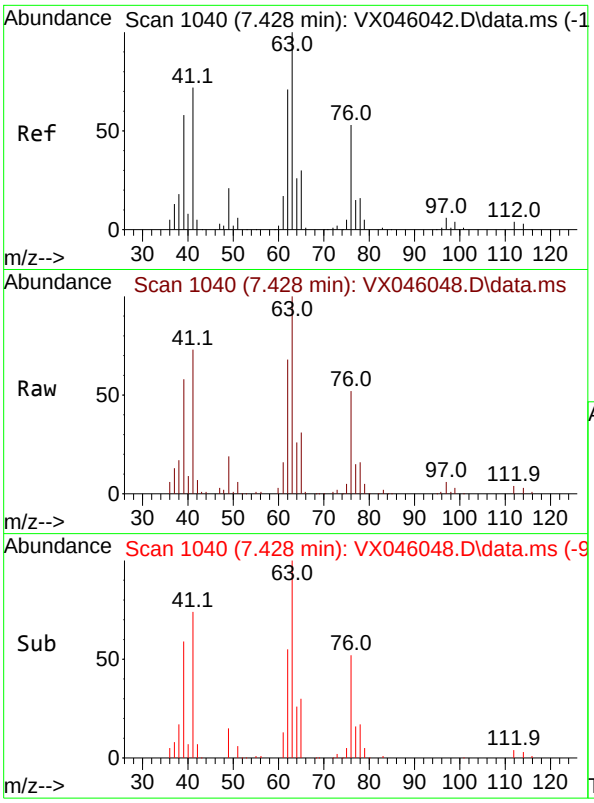


#44
Trichloroethene
Concen: 50.018 ug/l
RT: 7.123 min Scan# 990
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion:130 Resp: 55491

Ion	Ratio	Lower	Upper
130	100		
95	102.6	0.0	204.2

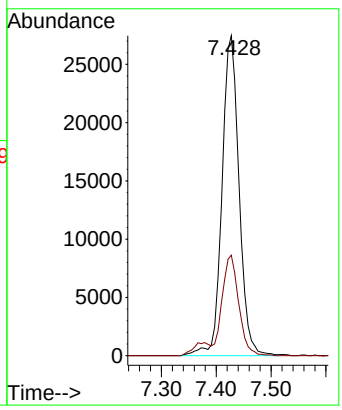




#45
1,2-Dichloropropane
Concen: 51.983 ug/l
RT: 7.428 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 63 Resp: 5958

Ion	Ratio	Lower	Upper
63	100		
65	31.4	24.1	36.1



Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

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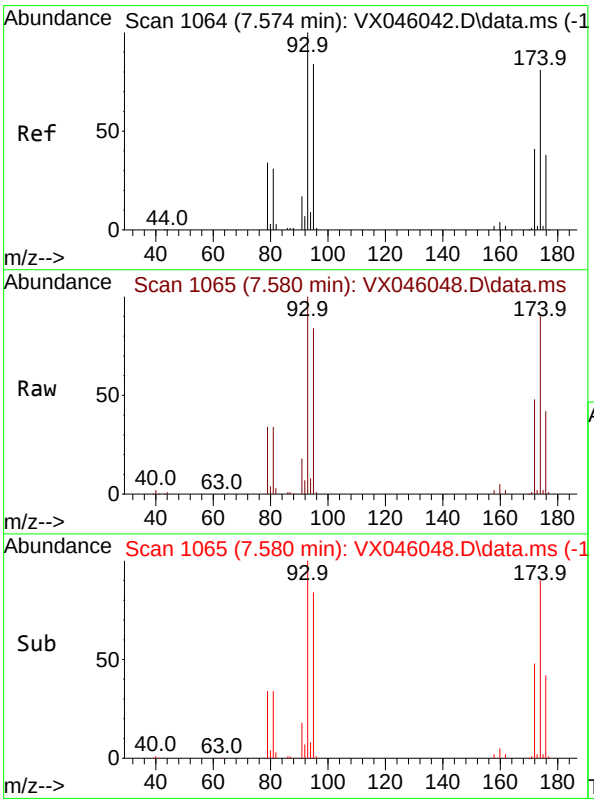
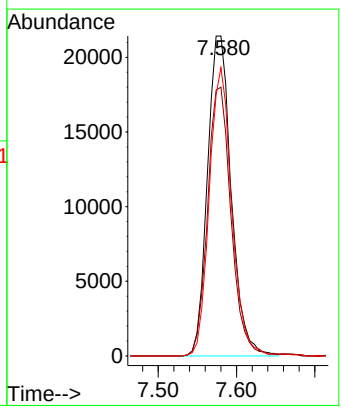
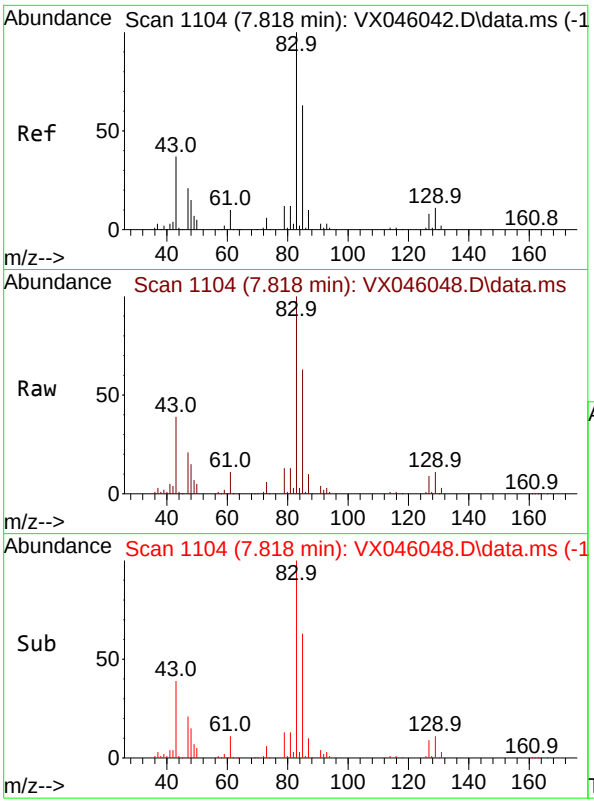


#46
Dibromomethane
Concen: 49.978 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. 0.006 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 93 Resp: 45181

Ion	Ratio	Lower	Upper
93	100		
95	83.0	65.6	98.4
174	84.8	68.2	102.2

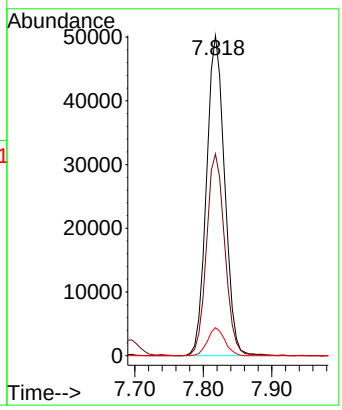




#47
Bromodichloromethane
Concen: 51.889 ug/l
RT: 7.818 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 83 Resp: 9238

Ion	Ratio	Lower	Upper
83	100		
85	63.0	50.5	75.7
127	8.8	6.5	9.7



Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

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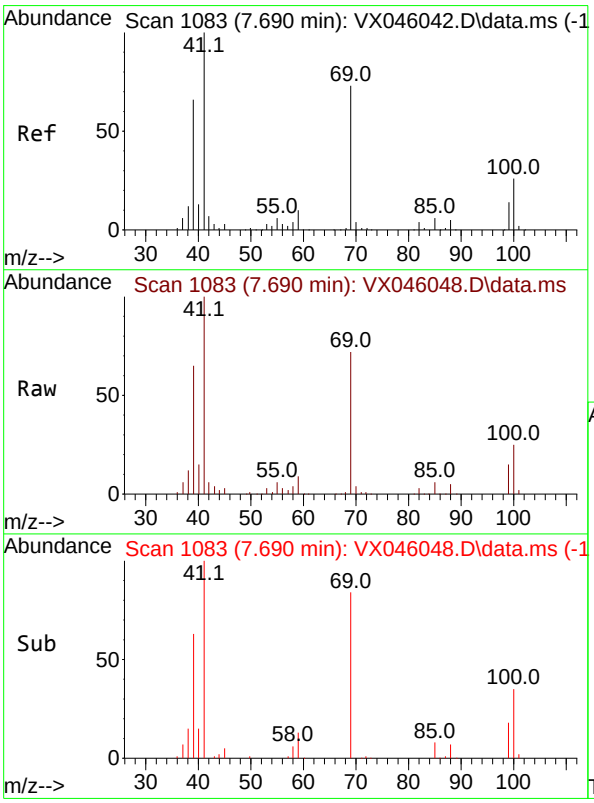
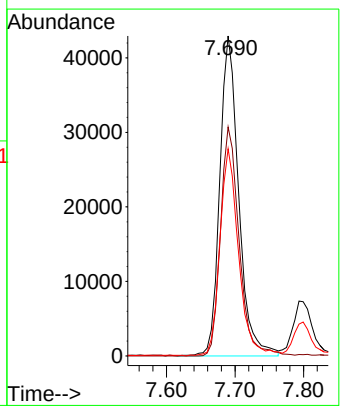
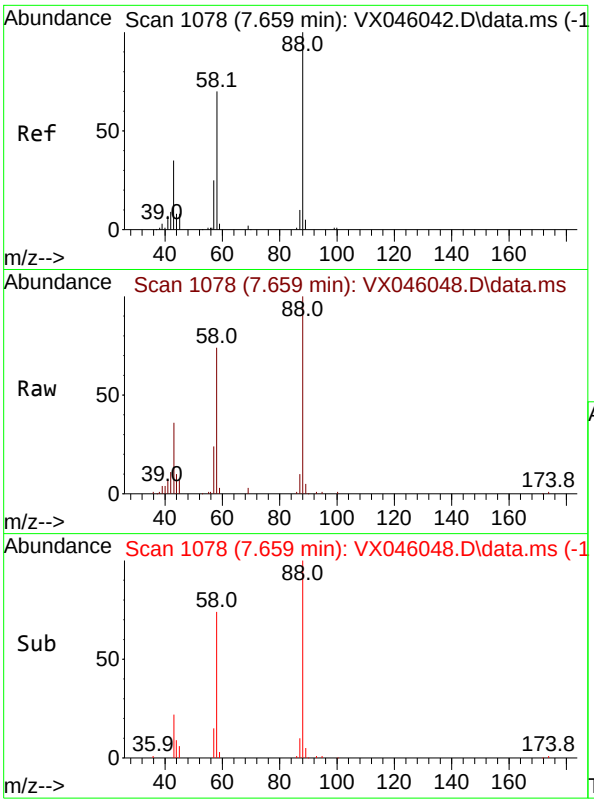


#48
Methyl methacrylate
Concen: 54.226 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 41 Resp: 82144

Ion	Ratio	Lower	Upper
41	100		
69	70.4	58.5	87.7
39	64.2	51.7	77.5

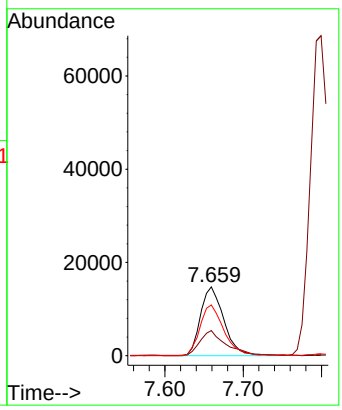




#49
1,4-Dioxane
Concen: 1059.599 ug/l
RT: 7.659 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 88 Resp: 3047

Ion	Ratio	Lower	Upper
88	100		
43	39.9	33.4	50.2
58	76.2	58.6	88.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

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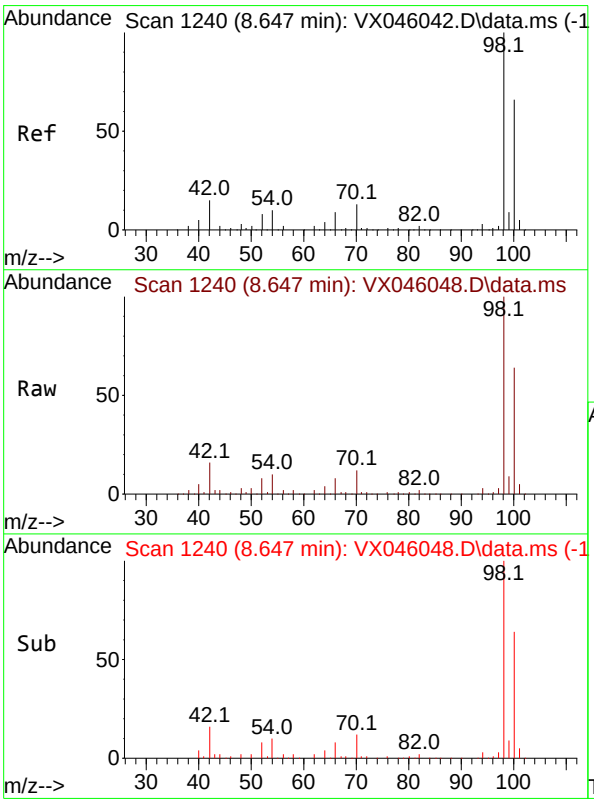
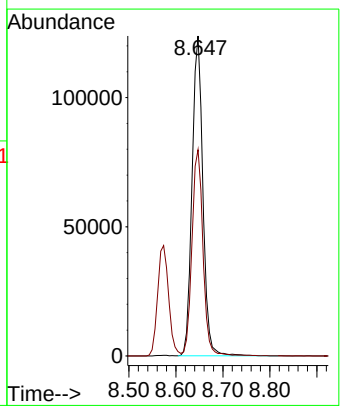
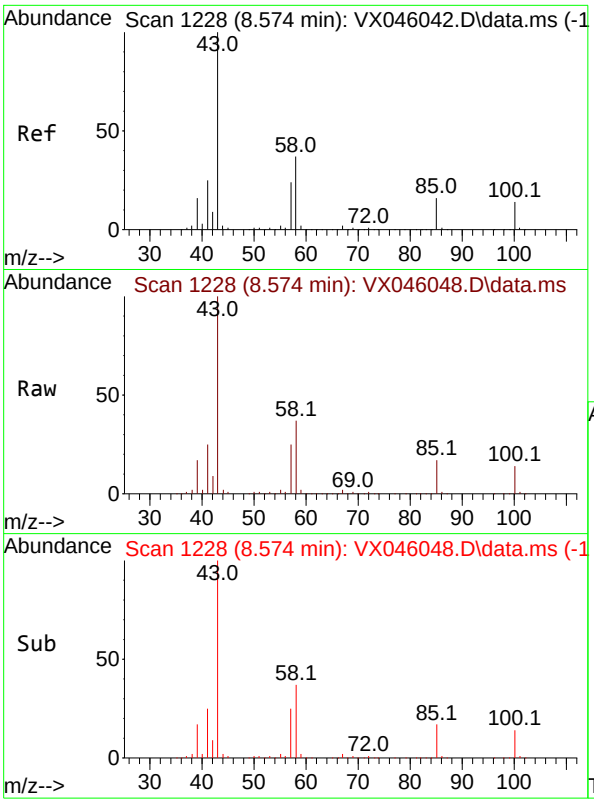


#50
Toluene-d8
Concen: 48.984 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 98 Resp: 198575

Ion	Ratio	Lower	Upper
98	100		
100	65.6	53.5	80.3

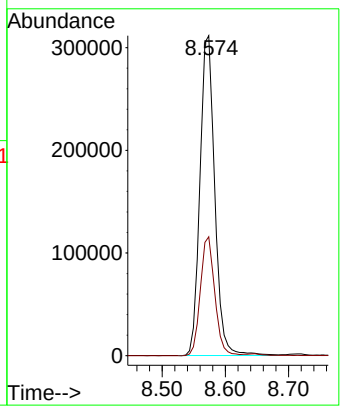




#51
4-Methyl-2-Pentanone
Concen: 259.133 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 43 Resp: 51020

Ion	Ratio	Lower	Upper
43	100		
58	36.1	28.9	43.3



Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

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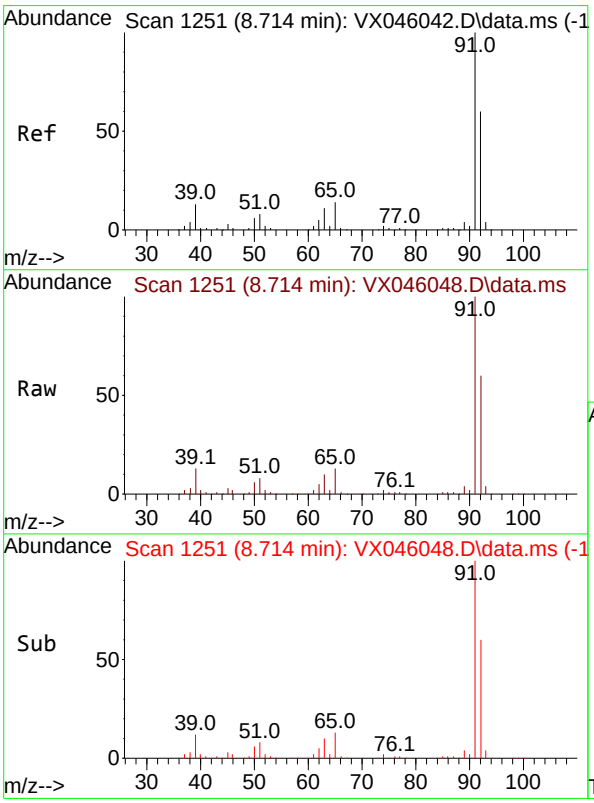
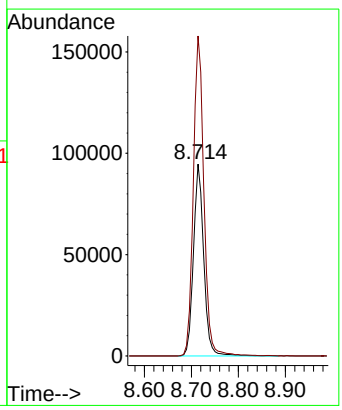
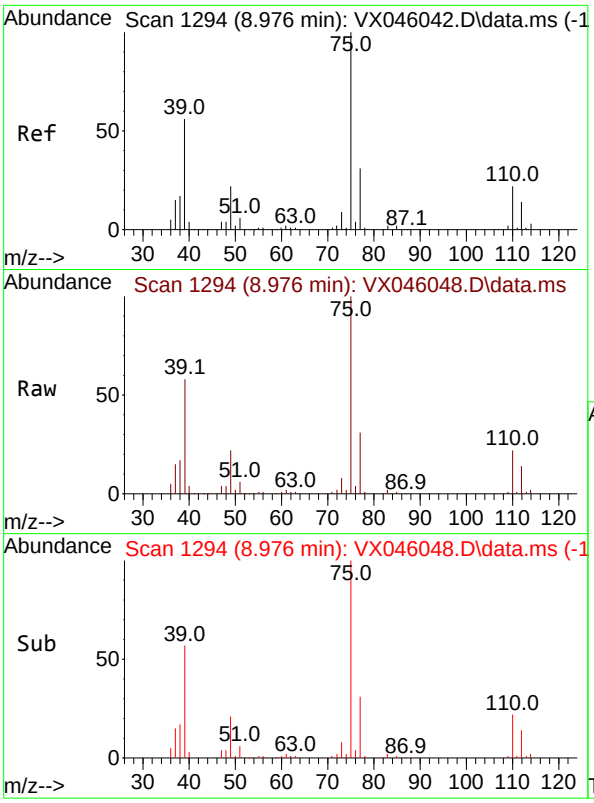


#52
Toluene
Concen: 51.150 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 92 Resp: 144574

Ion	Ratio	Lower	Upper
92	100		
91	171.4	136.6	205.0

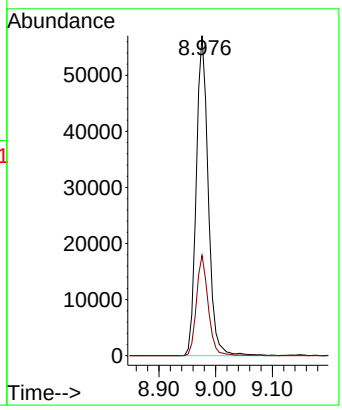




#53
t-1,3-Dichloropropene
Concen: 52.920 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 75 Resp: 8375

Ion	Ratio	Lower	Upper
75	100		
77	31.3	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

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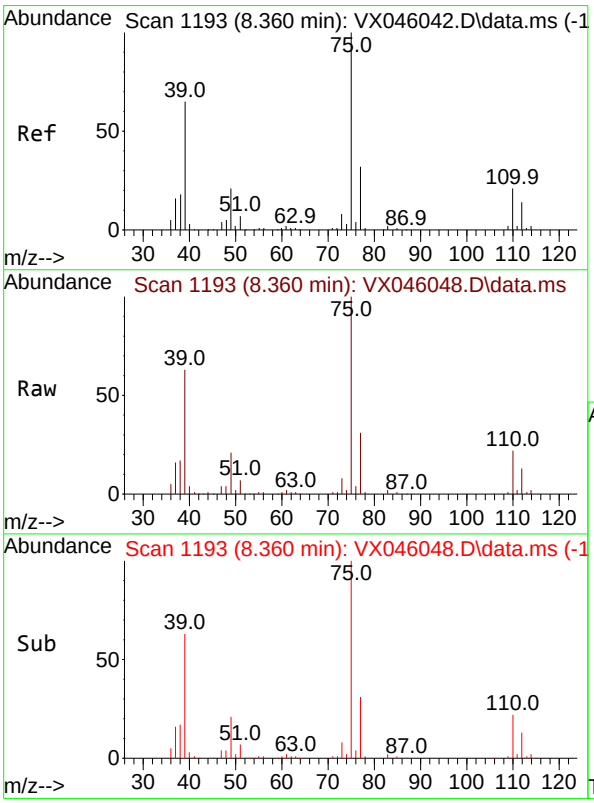
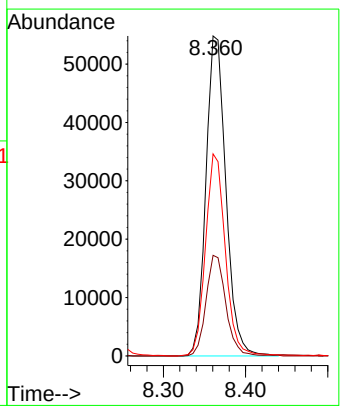
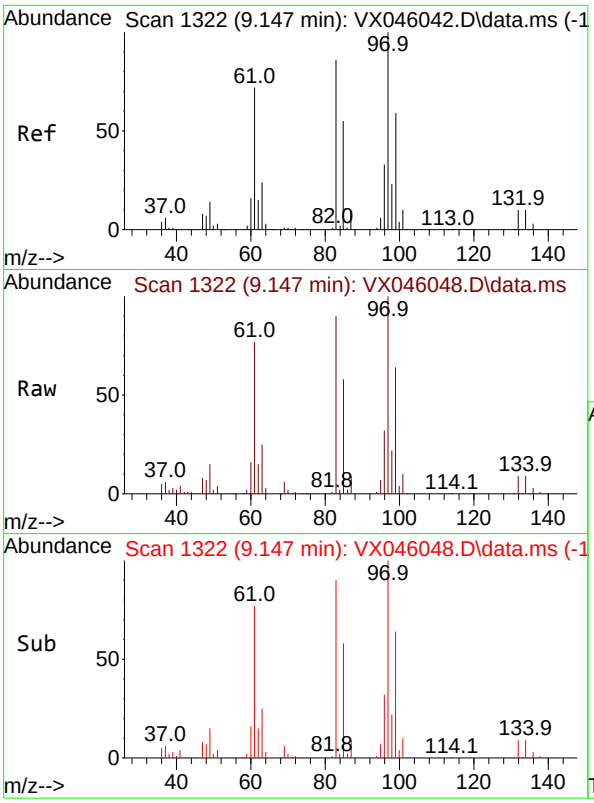


#54
cis-1,3-Dichloropropene
Concen: 52.892 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 75 Resp: 92517

Ion	Ratio	Lower	Upper
75	100		
77	31.5	25.4	38.0
39	63.2	52.2	78.4

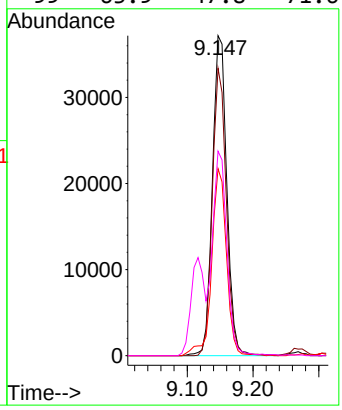




#55
1,1,2-Trichloroethane
Concen: 50.887 ug/l
RT: 9.147 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 97 Resp: 5671

Ion	Ratio	Lower	Upper
97	100		
83	89.8	69.0	103.6
85	58.4	44.3	66.5
99	63.9	47.8	71.6



Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

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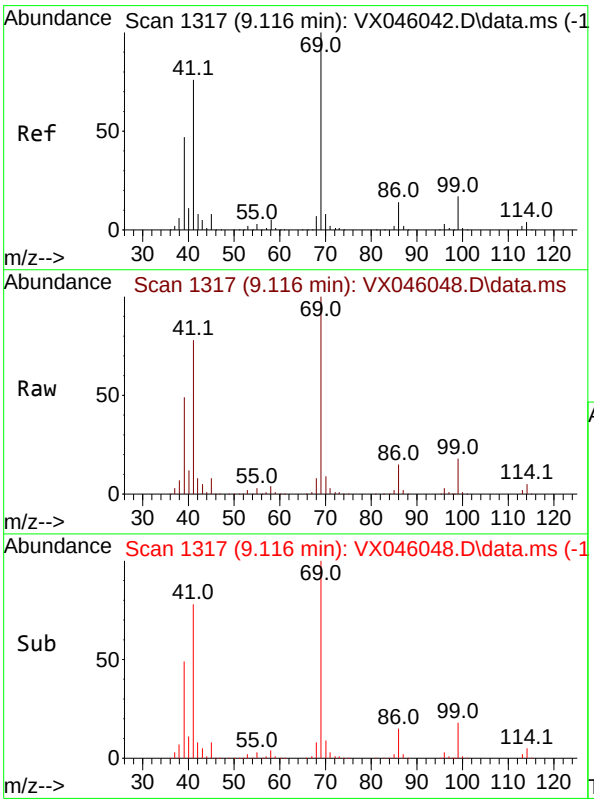
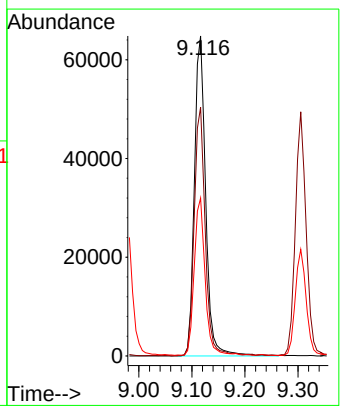
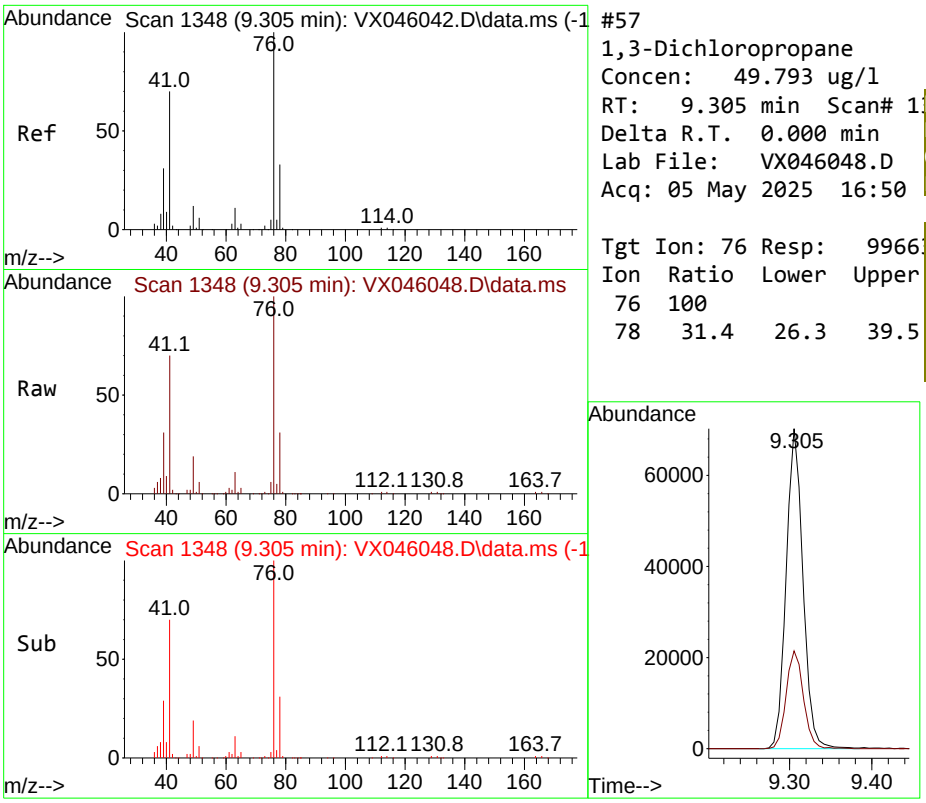


#56
Ethyl methacrylate
Concen: 53.918 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 69 Resp: 95772

Ion	Ratio	Lower	Upper
69	100		
41	76.1	60.8	91.2
39	47.4	39.0	58.6





#57
1,3-Dichloropropane
Concen: 49.793 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 76 Resp: 9966

Ion	Ratio	Lower	Upper
76	100		
78	31.4	26.3	39.5

Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

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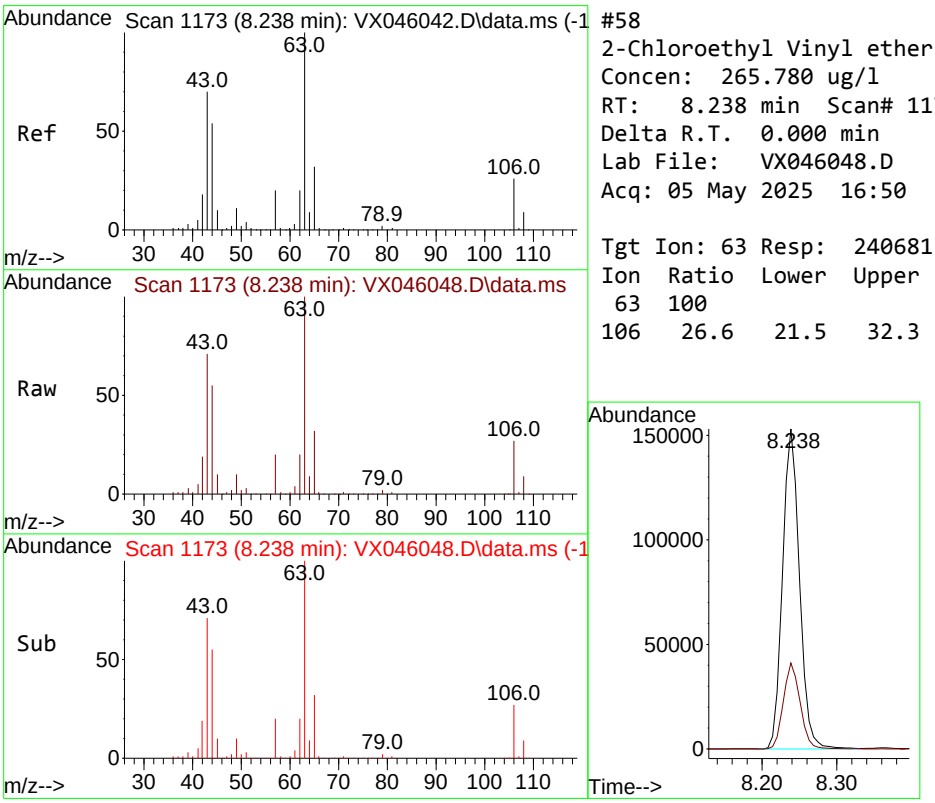
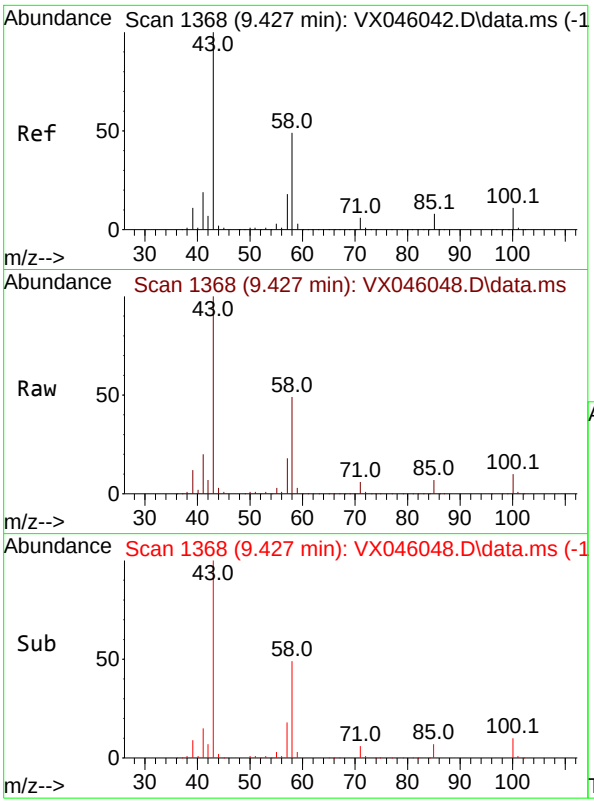


#58
2-Chloroethyl Vinyl ether
Concen: 265.780 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 63 Resp: 240681

Ion	Ratio	Lower	Upper
63	100		
106	26.6	21.5	32.3



#59
2-Hexanone
Concen: 268.218 ug/l
RT: 9.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 43 Resp: 39070

Ion	Ratio	Lower	Upper
43	100		
58	49.6	24.9	74.6

Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

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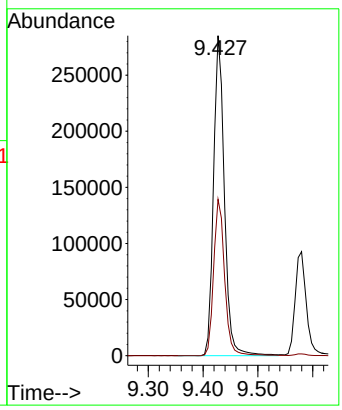
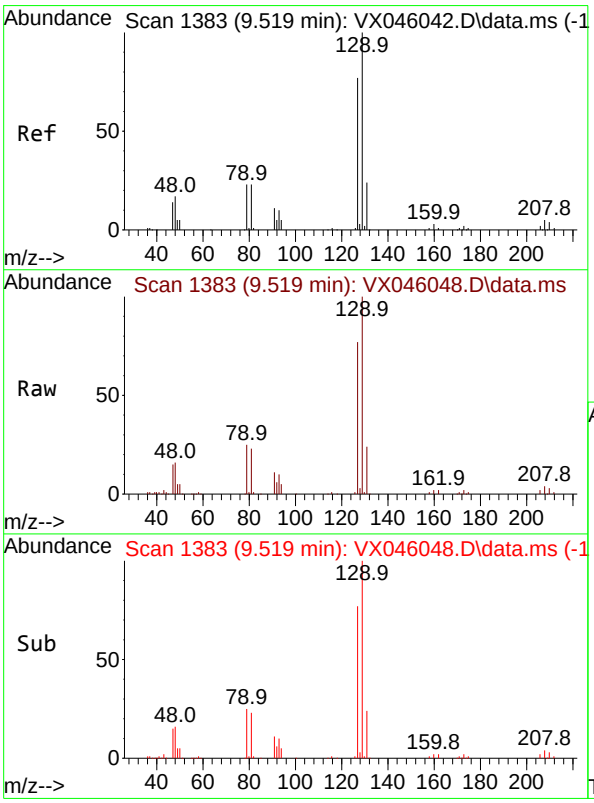
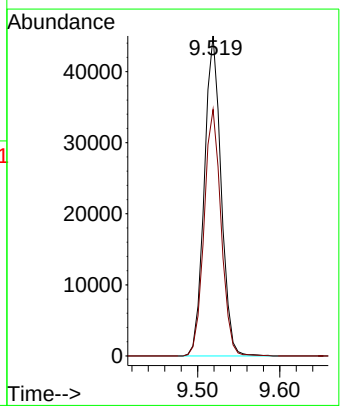


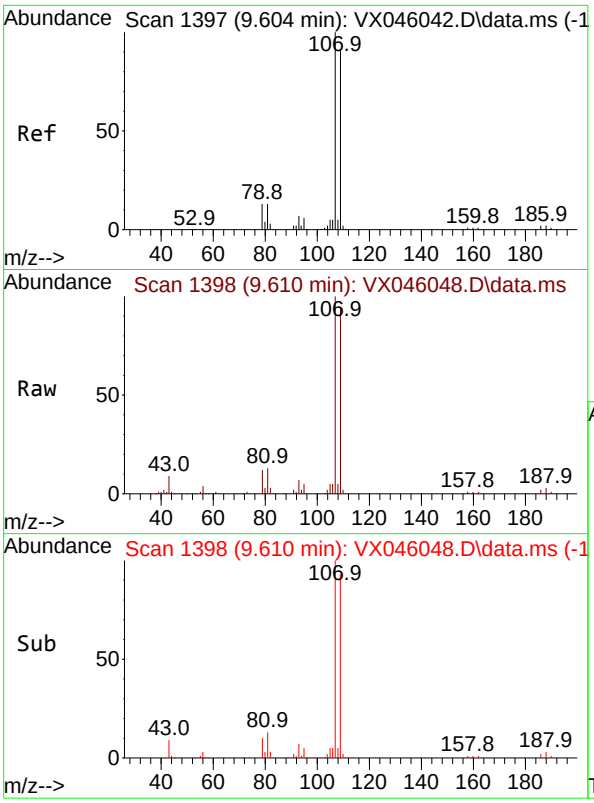


#60
Dibromochloromethane
Concen: 52.075 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion:129 Resp: 63738

Ion	Ratio	Lower	Upper
129	100		
127	77.9	39.3	117.8

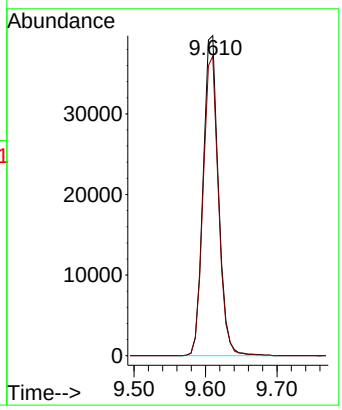




#61
1,2-Dibromoethane
Concen: 51.050 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion:107 Resp: 5913

Ion	Ratio	Lower	Upper
107	100		
109	93.8	73.3	109.9



Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

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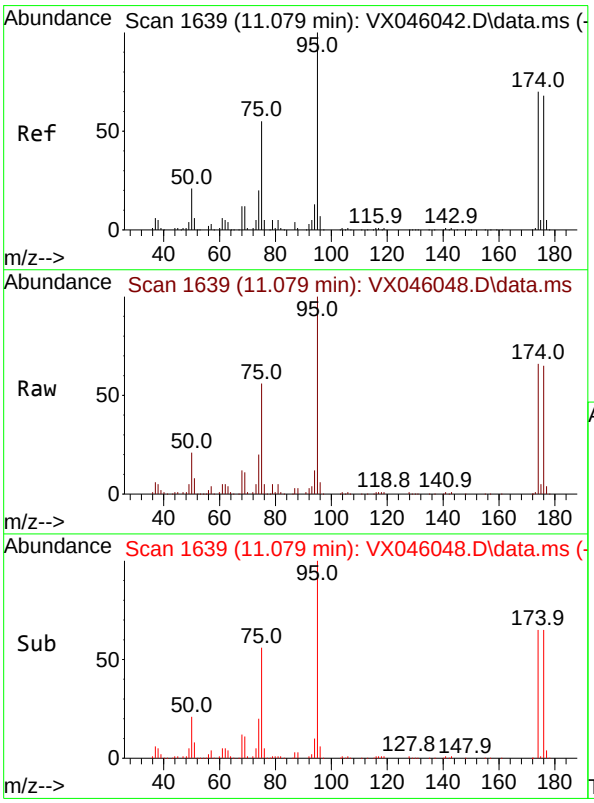
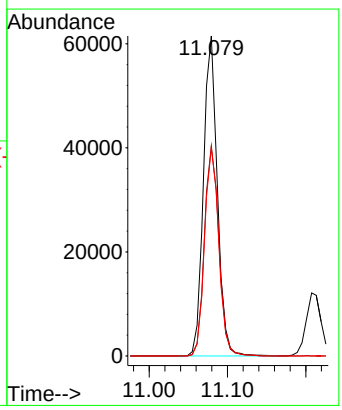
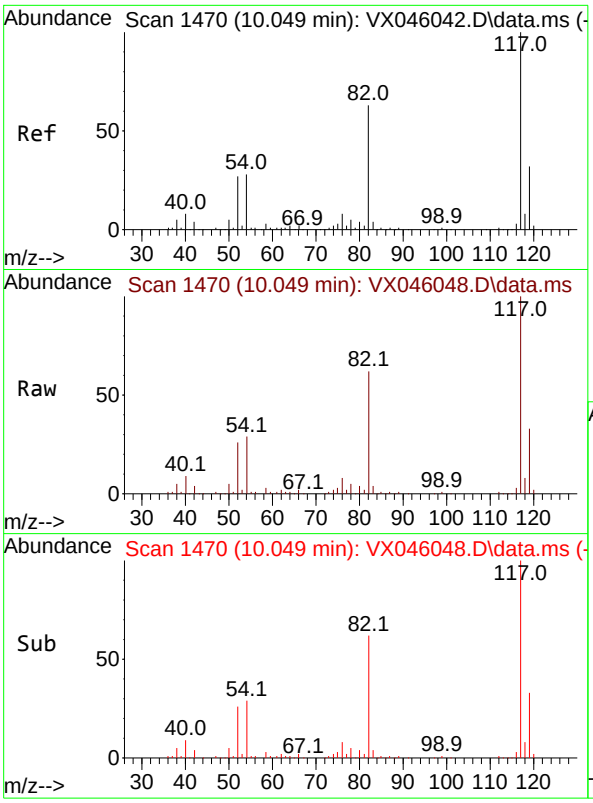


#62
4-Bromofluorobenzene
Concen: 48.596 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 95 Resp: 75568

Ion	Ratio	Lower	Upper
95	100		
174	68.2	0.0	135.8
176	66.5	0.0	131.4

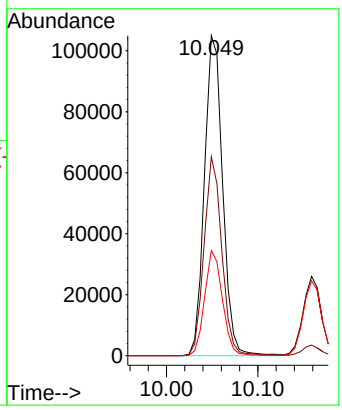




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion:117 Resp: 14507

Ion	Ratio	Lower	Upper
117	100		
82	62.1	50.6	76.0
119	32.9	25.8	38.6



Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

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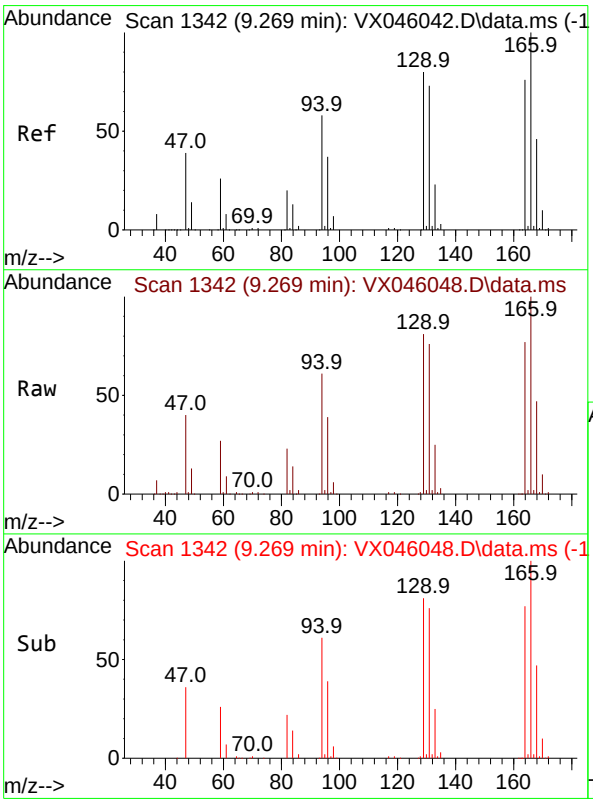
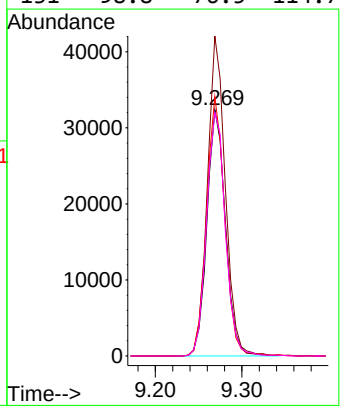
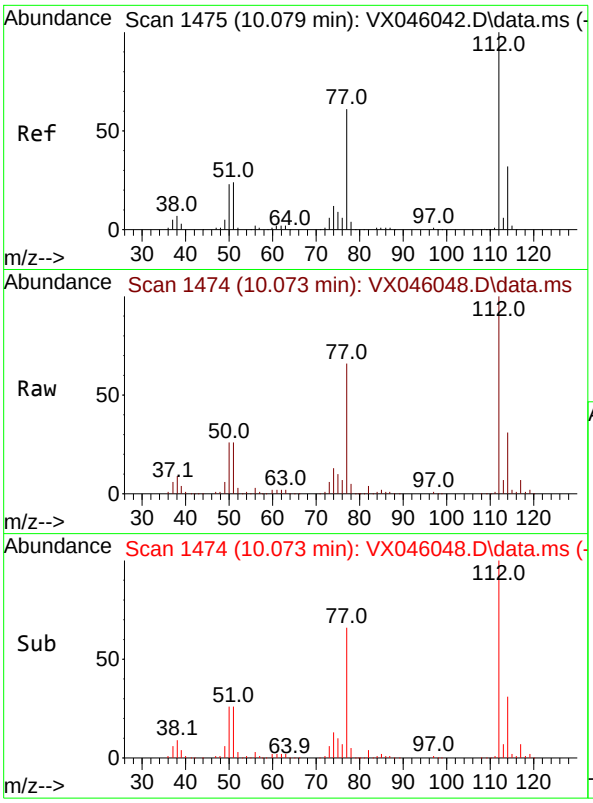


#64
Tetrachloroethene
Concen: 46.795 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion:164 Resp: 48034

Ion	Ratio	Lower	Upper
164	100		
166	129.9	105.0	157.6
129	105.3	83.5	125.3
131	98.8	76.5	114.7

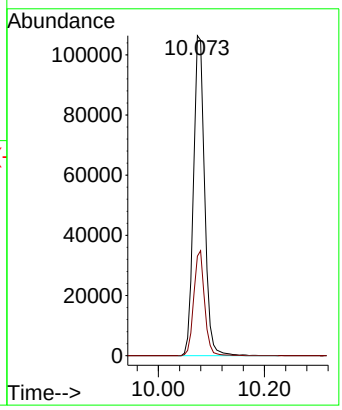




#65
Chlorobenzene
Concen: 48.699 ug/l
RT: 10.073 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion:112 Resp: 15464

Ion	Ratio	Lower	Upper
112	100		
114	31.1	25.4	38.2



Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Manual Integrations
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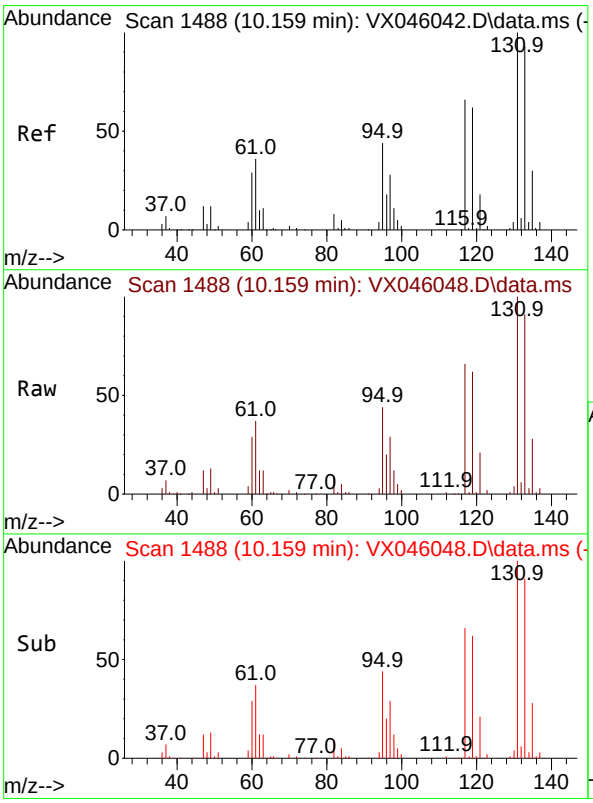
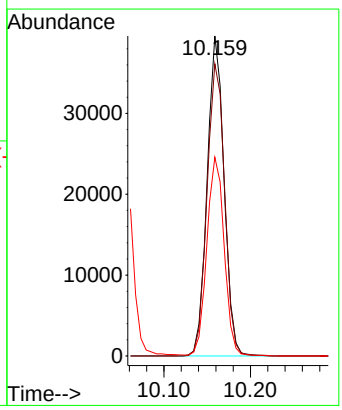
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

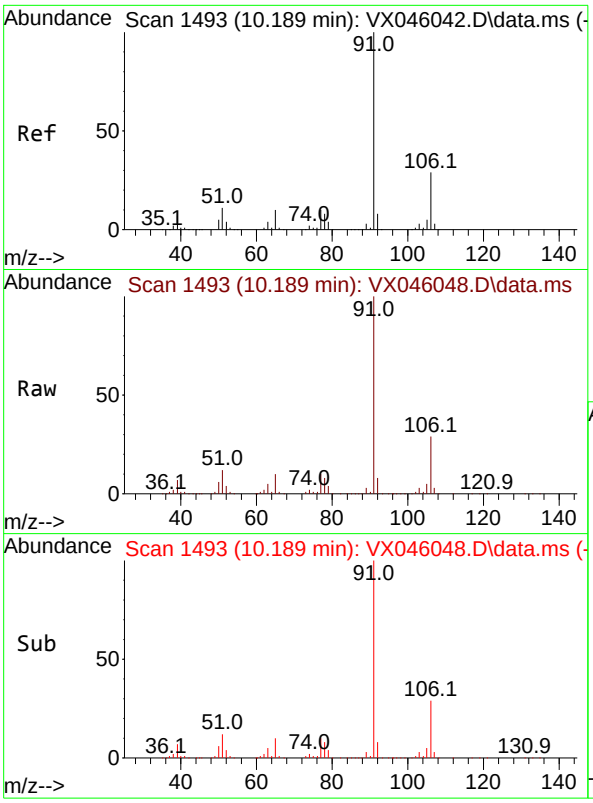


#66
1,1,1,2-Tetrachloroethane
Concen: 49.557 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion:131 Resp: 53735

Ion	Ratio	Lower	Upper
131	100		
133	94.9	47.3	141.9
119	63.7	31.6	95.0

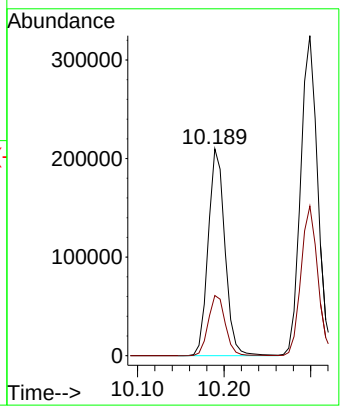




#67
Ethyl Benzene
Concen: 50.245 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 91 Resp: 28123

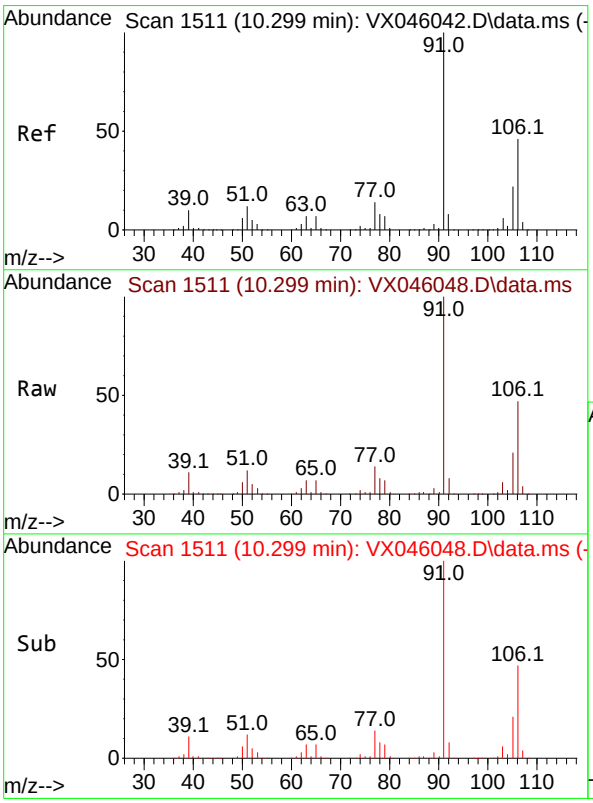
Ion	Ratio	Lower	Upper
91	100		
106	29.1	23.4	35.2



Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Manual Integrations APPROVED

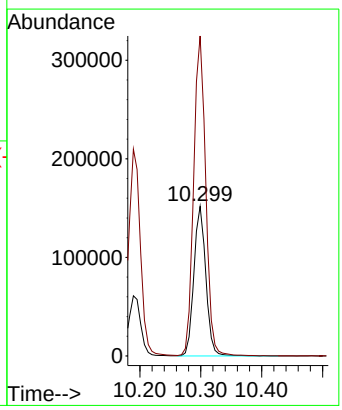
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

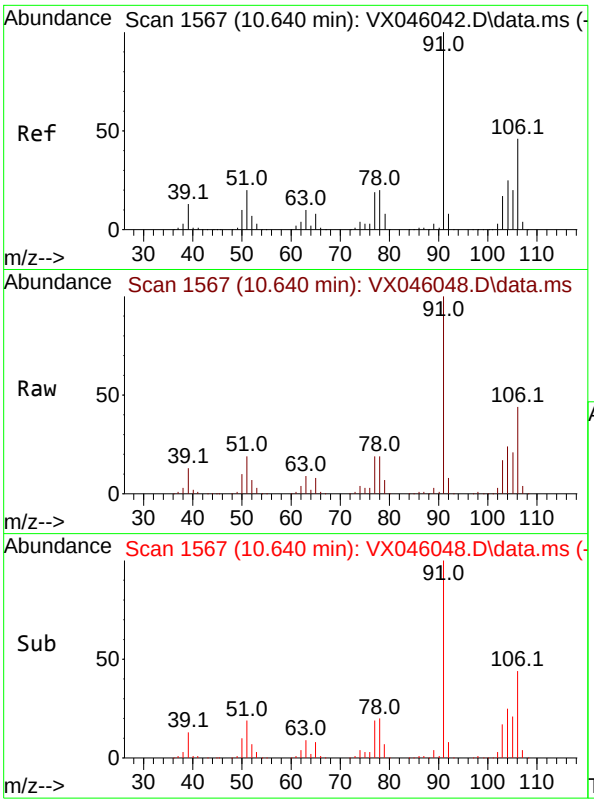


#68
m/p-Xylenes
Concen: 101.022 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion:106 Resp: 206813

Ion	Ratio	Lower	Upper
106	100		
91	215.6	171.2	256.8

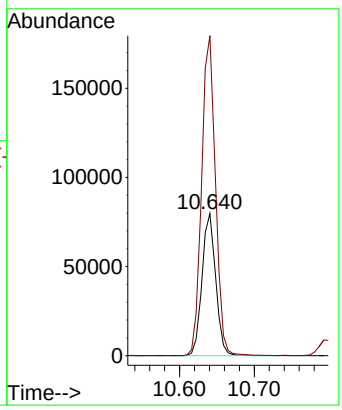




#69
o-Xylene
Concen: 50.841 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion:106 Resp: 10146

Ion	Ratio	Lower	Upper
106	100		
91	227.7	112.7	338.1



Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

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Reviewed By :John Carlone 05/06/2025
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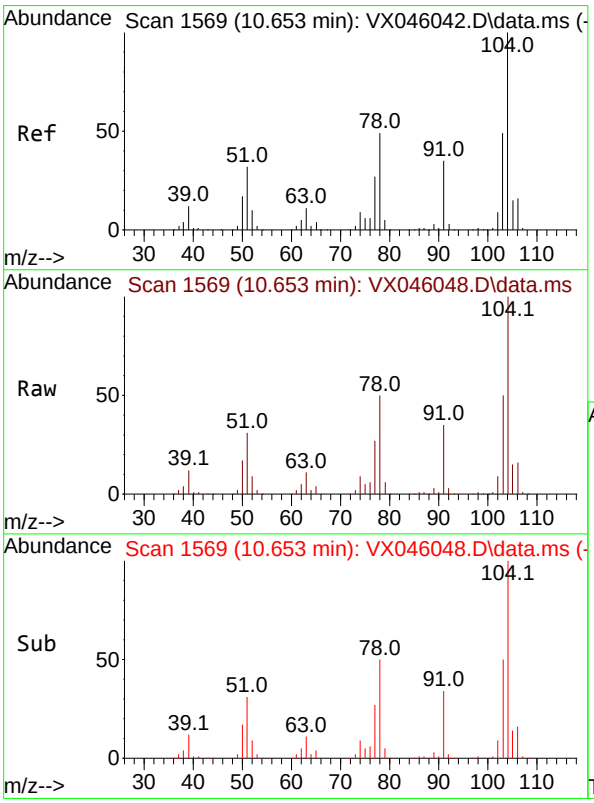
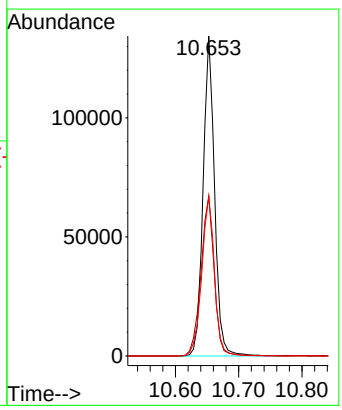
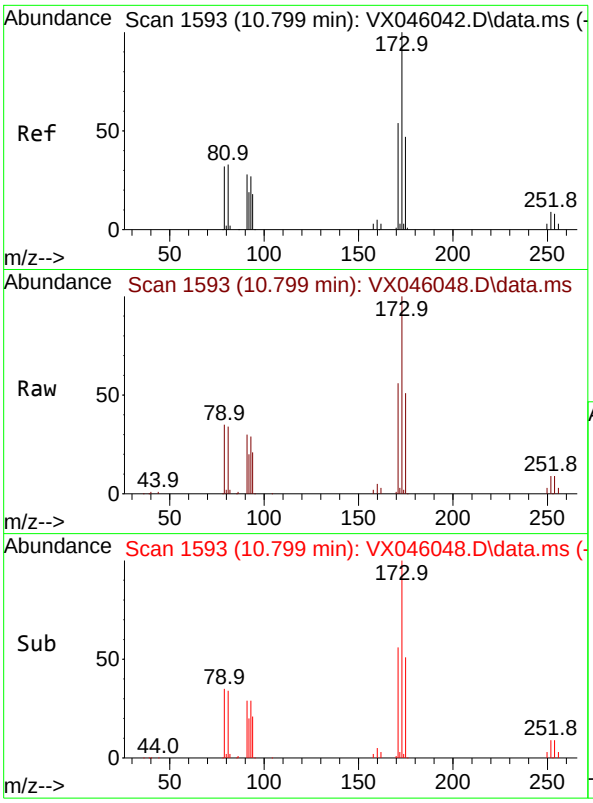


#70
Styrene
Concen: 51.907 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion:104 Resp: 169703

Ion	Ratio	Lower	Upper
104	100		
78	57.6	45.7	68.5
103	55.5	43.7	65.5

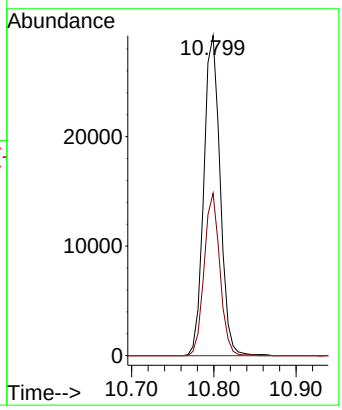




#71
Bromoform
Concen: 49.583 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion:173 Resp: 4036

Ion	Ratio	Lower	Upper
173	100		
175	48.8	23.4	70.0
254	0.0	0.0	0.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

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Reviewed By :John Carlone 05/06/2025
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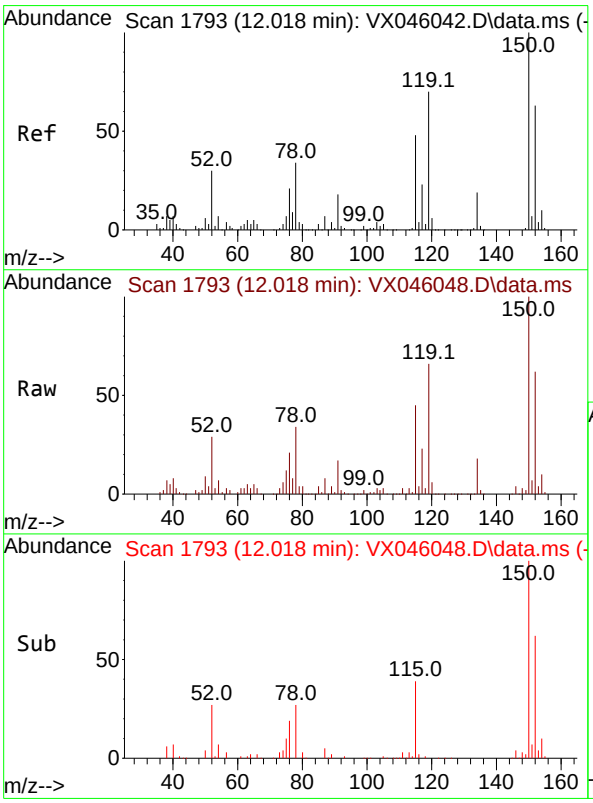
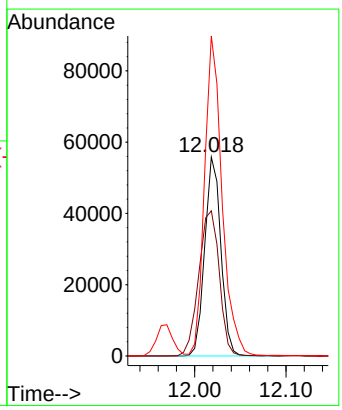
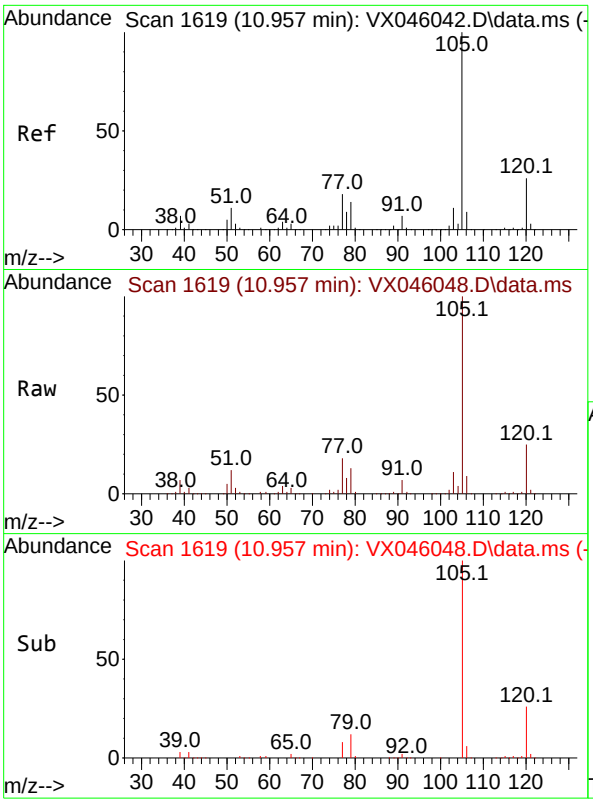


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion:152 Resp: 68229

Ion	Ratio	Lower	Upper
152	100		
115	93.3	46.9	140.7
150	175.3	0.0	351.0





#73
Isopropylbenzene
Concen: 50.733 ug/l
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion:105 Resp: 26948

Ion	Ratio	Lower	Upper
105	100		
120	25.4	12.8	38.4

Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

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Reviewed By :John Carlone 05/06/2025
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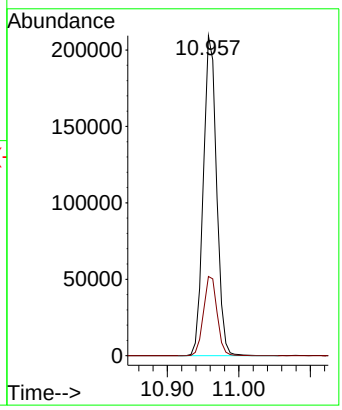
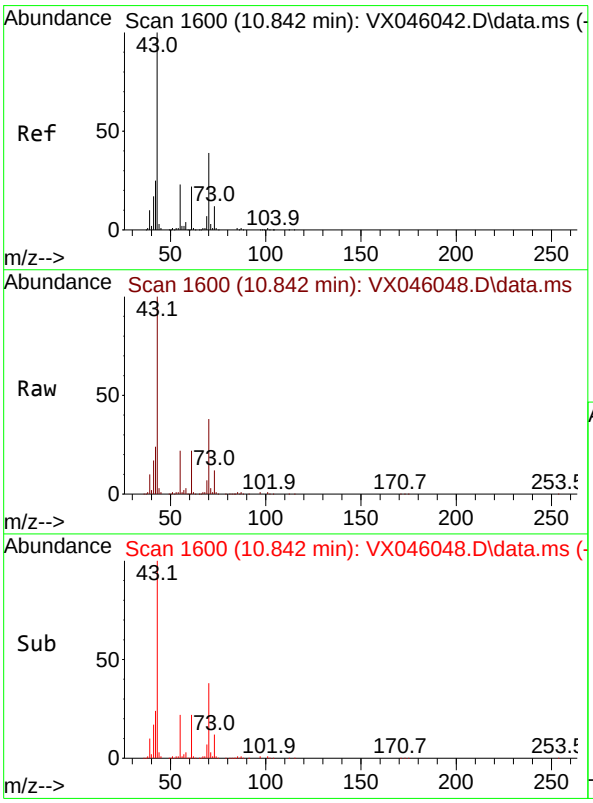
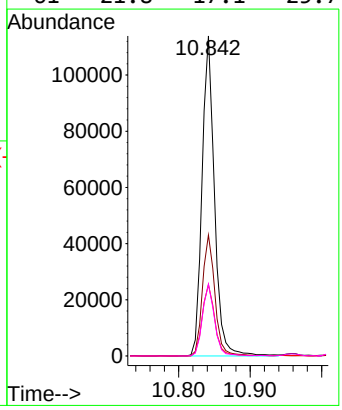


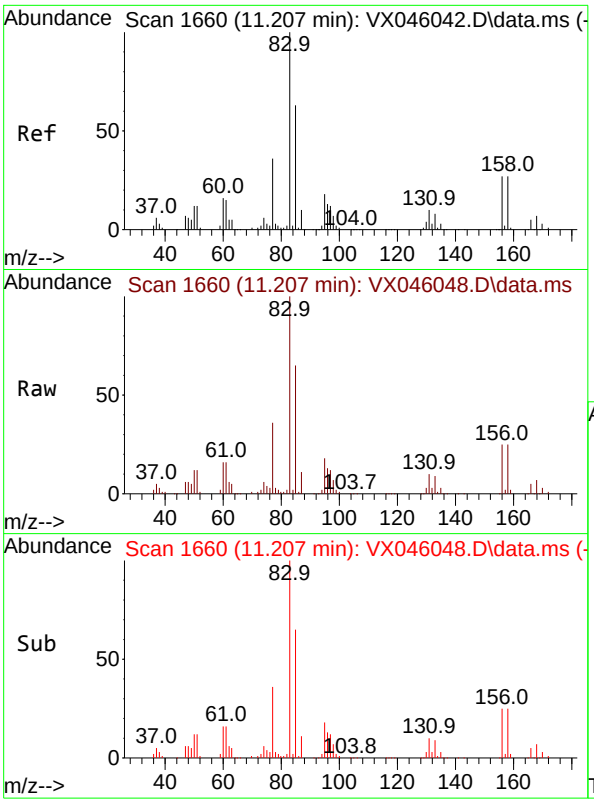


#74
N-amyl acetate
Concen: 52.407 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 43 Resp: 137559

Ion	Ratio	Lower	Upper
43	100		
70	37.9	30.9	46.3
55	22.7	18.7	28.1
61	21.8	17.1	25.7

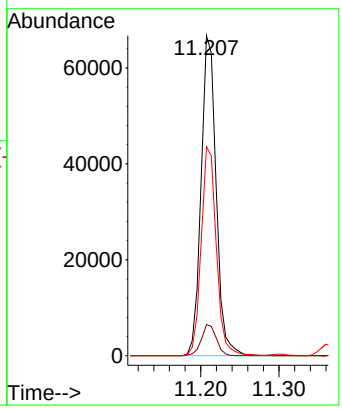




#75
1,1,2,2-Tetrachloroethane
Concen: 47.827 ug/l
RT: 11.207 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 83 Resp: 8902

Ion	Ratio	Lower	Upper
83	100		
131	9.7	5.0	14.9
85	65.5	31.9	95.7



Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Manual Integrations
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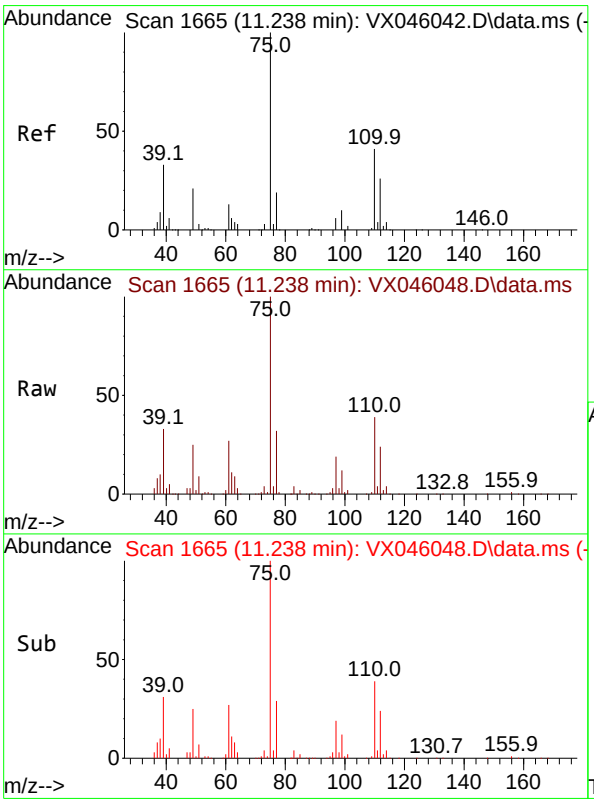
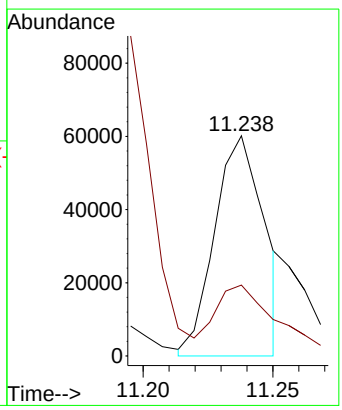
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

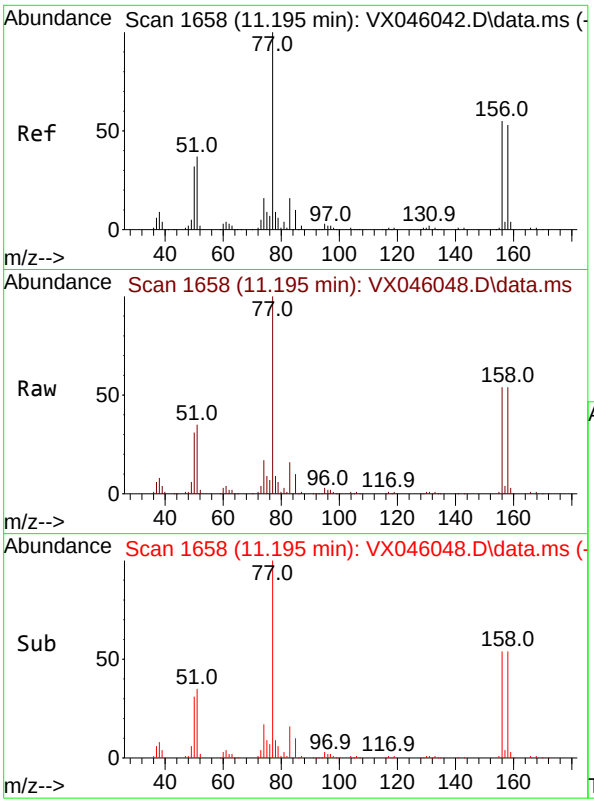


#76
1,2,3-Trichloropropane
Concen: 48.568 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 75 Resp: 79763

Ion	Ratio	Lower	Upper
75	100		
77	40.8	20.5	61.5

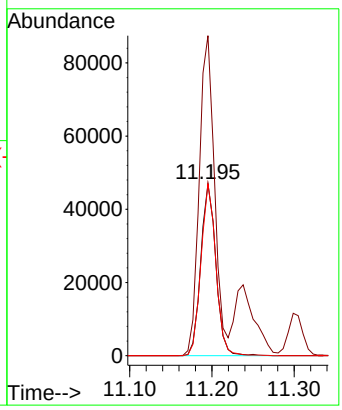




#77
Bromobenzene
Concen: 48.549 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion:156 Resp: 5987

Ion	Ratio	Lower	Upper
156	100		
77	189.0	92.8	278.3
158	98.9	48.8	146.3



Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Manual Integrations APPROVED

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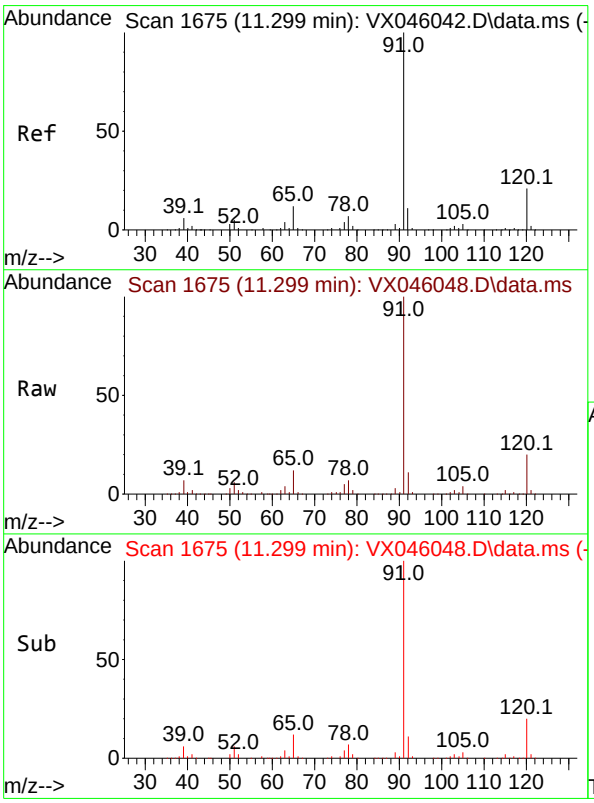
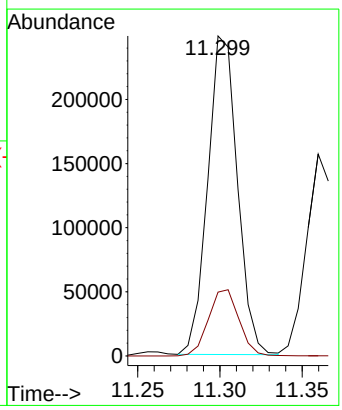
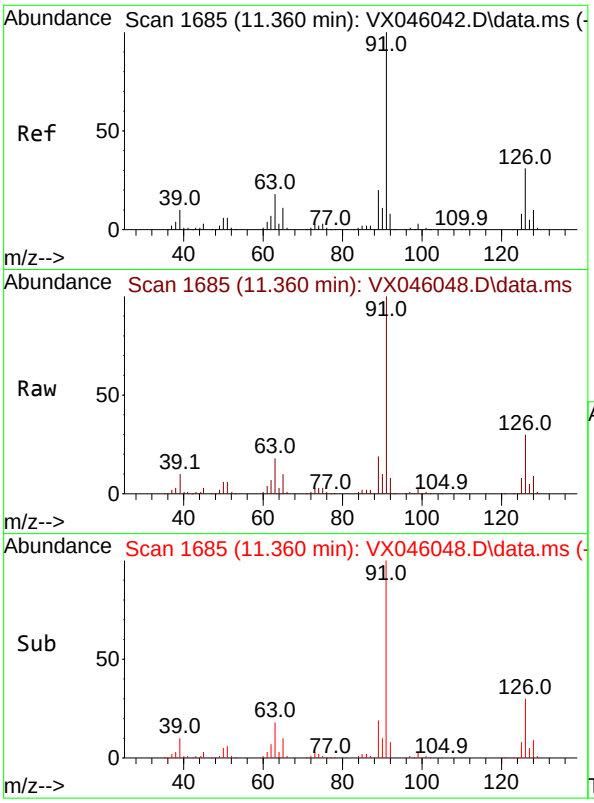


#78
n-propylbenzene
Concen: 50.562 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 91 Resp: 312285

Ion	Ratio	Lower	Upper
91	100		
120	21.4	10.8	32.4

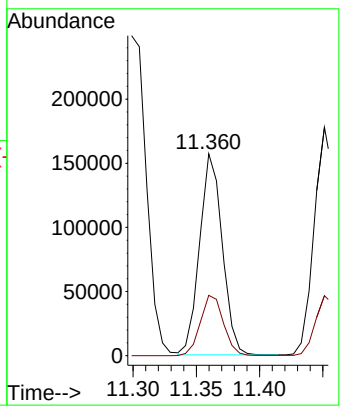




#79
2-Chlorotoluene
Concen: 49.107 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 91 Resp: 19563

Ion	Ratio	Lower	Upper
91	100		
126	30.8	15.6	46.7



Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Manual Integrations APPROVED

Reviewed By :John Carlone 05/06/2025
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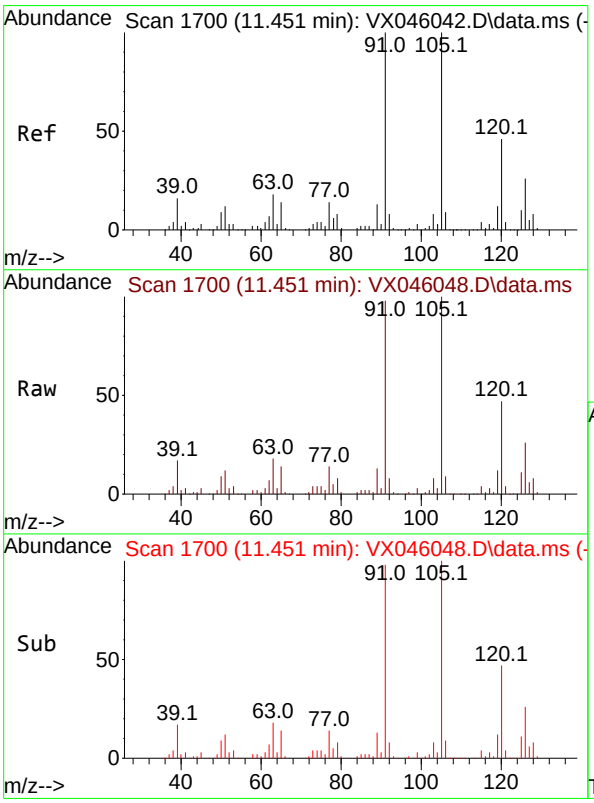
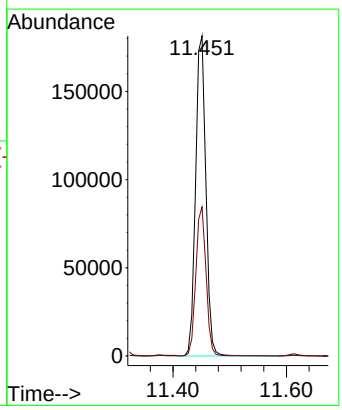
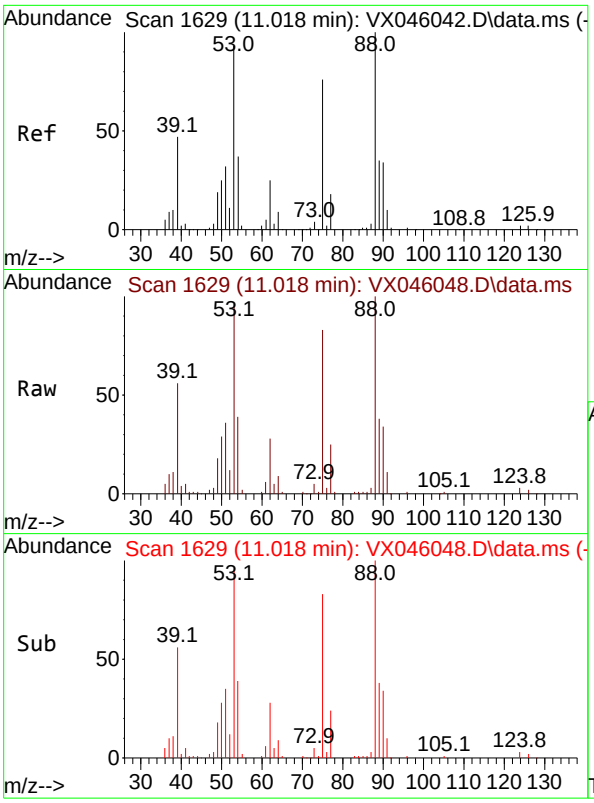


#80
1,3,5-Trimethylbenzene
Concen: 51.500 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion:105 Resp: 228538

Ion	Ratio	Lower	Upper
105	100		
120	46.3	23.1	69.2

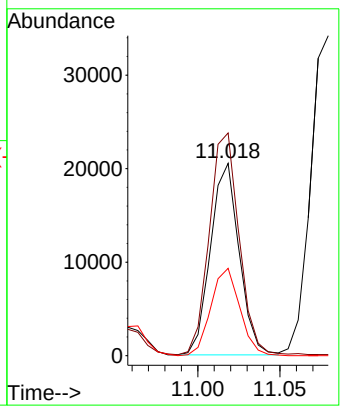




#81
trans-1,4-Dichloro-2-butene
Concen: 49.276 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 75 Resp: 2485

Ion	Ratio	Lower	Upper
75	100		
53	122.3	100.5	150.7
89	46.2	37.0	55.6



Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Manual Integrations
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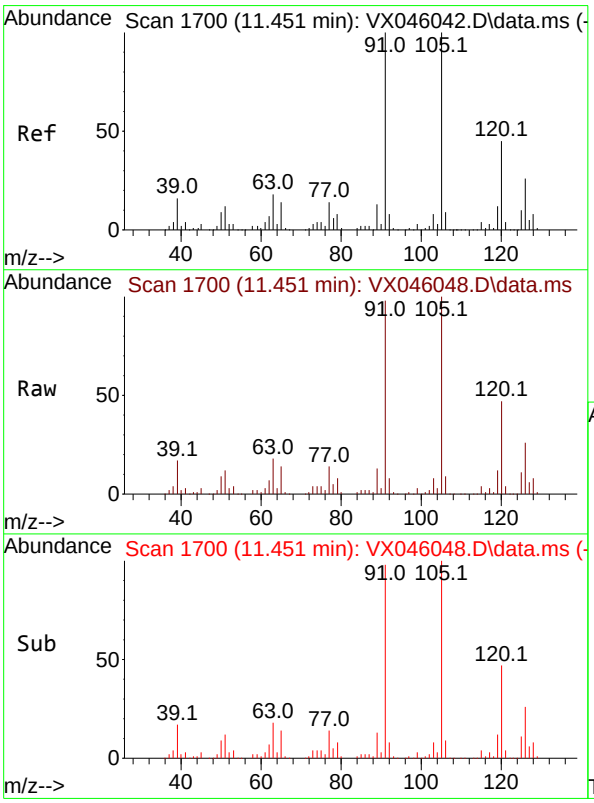
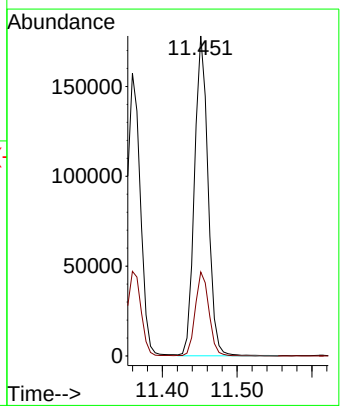
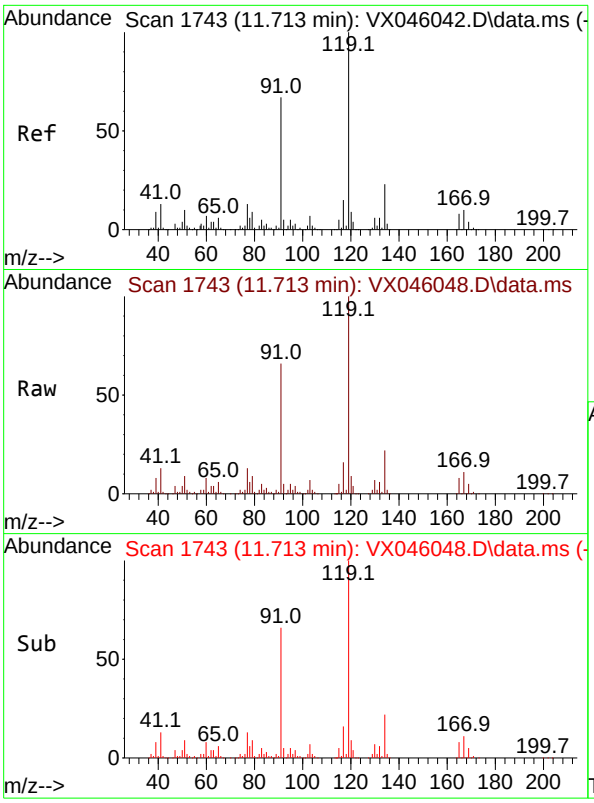


#82
4-Chlorotoluene
Concen: 50.661 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 91 Resp: 223811

Ion	Ratio	Lower	Upper
91	100		
126	26.5	13.3	39.8

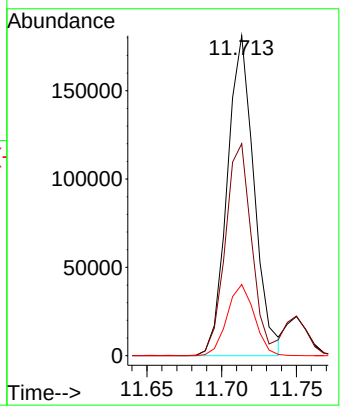




#83
tert-Butylbenzene
Concen: 50.511 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion:119 Resp: 22578

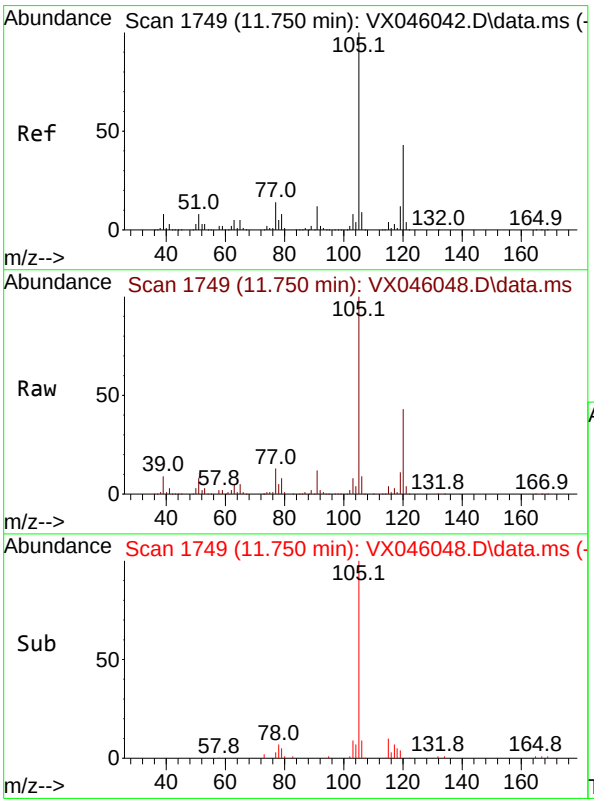
Ion	Ratio	Lower	Upper
119	100		
91	64.9	32.9	98.7
134	22.6	11.4	34.1



Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Manual Integrations
APPROVED

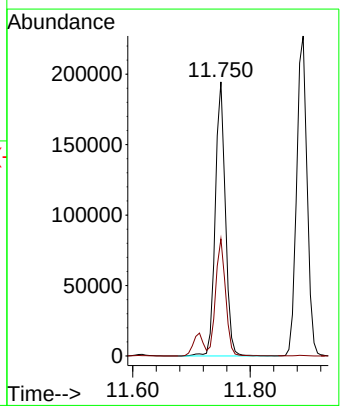
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

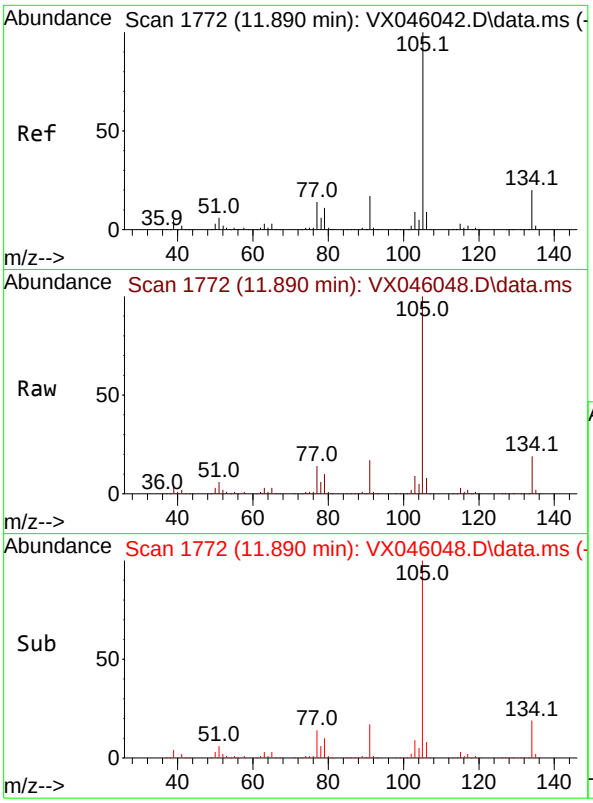


#84
1,2,4-Trimethylbenzene
Concen: 51.485 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion:105 Resp: 231371

Ion	Ratio	Lower	Upper
105	100		
120	42.3	21.2	63.6





#85
sec-Butylbenzene
Concen: 51.122 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

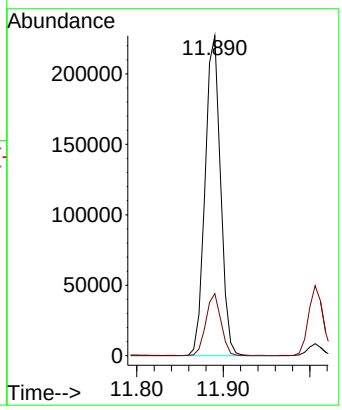
Tgt Ion:105 Resp: 28057

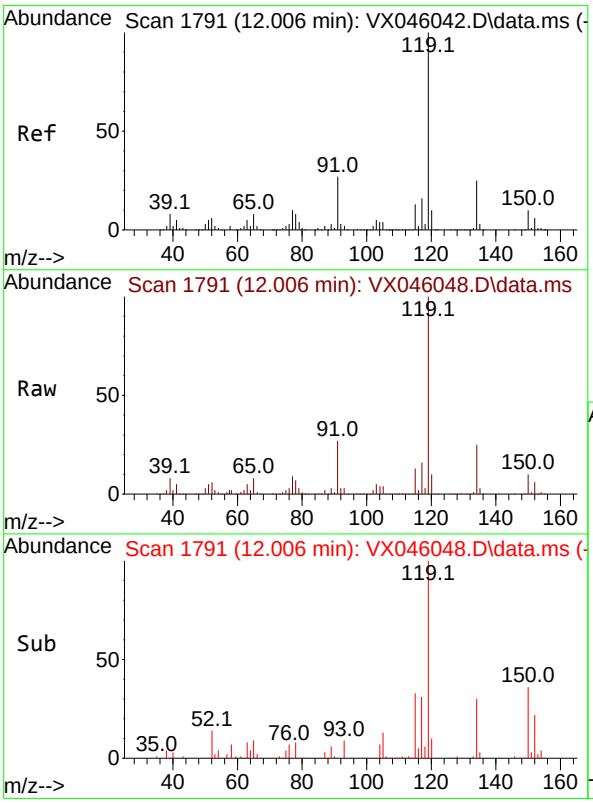
Ion	Ratio	Lower	Upper
105	100		
134	19.1	9.7	29.1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Manual Integrations
APPROVED

Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

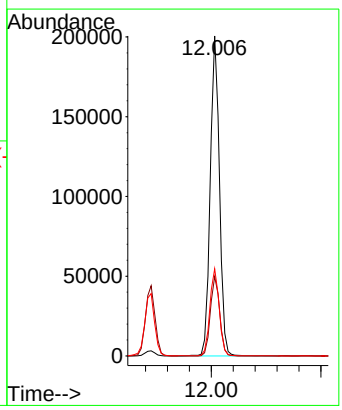


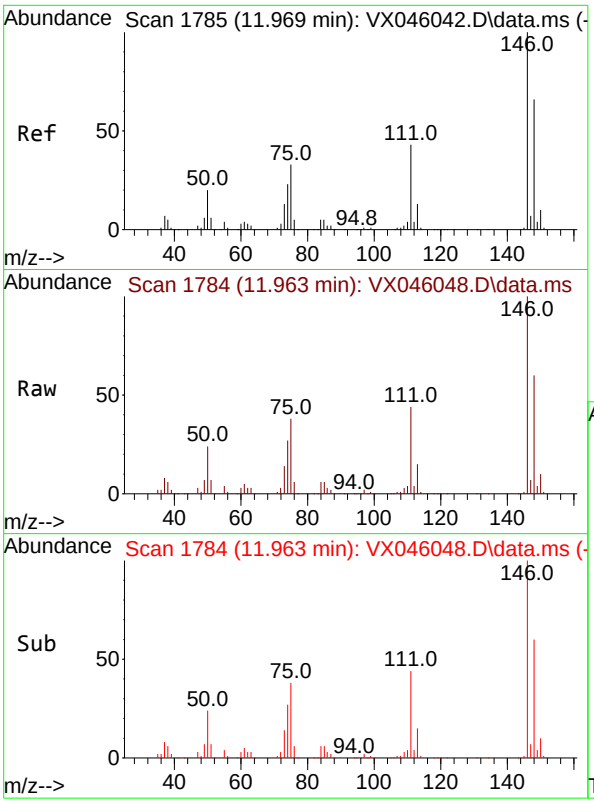


#86
p-Isopropyltoluene
Concen: 51.198 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion:119 Resp: 231942

Ion	Ratio	Lower	Upper
119	100		
134	25.0	12.5	37.5
91	27.5	13.8	41.4

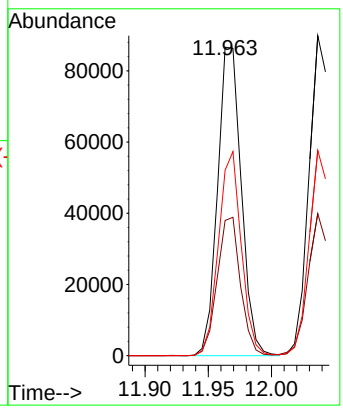




#87
1,3-Dichlorobenzene
Concen: 50.272 ug/l
RT: 11.963 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion:146 Resp: 11314

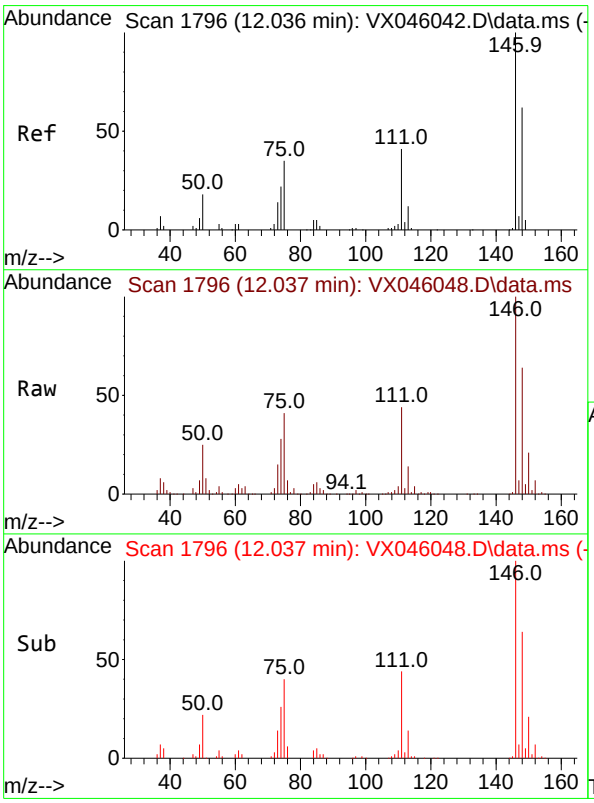
Ion	Ratio	Lower	Upper
146	100		
111	44.1	22.1	66.3
148	63.5	32.1	96.5



Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Manual Integrations
APPROVED

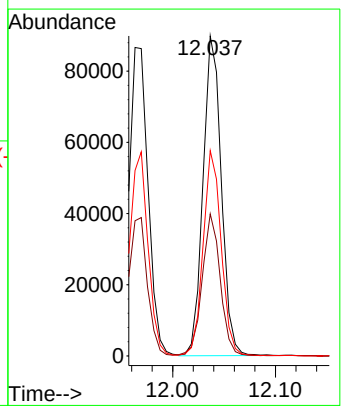
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

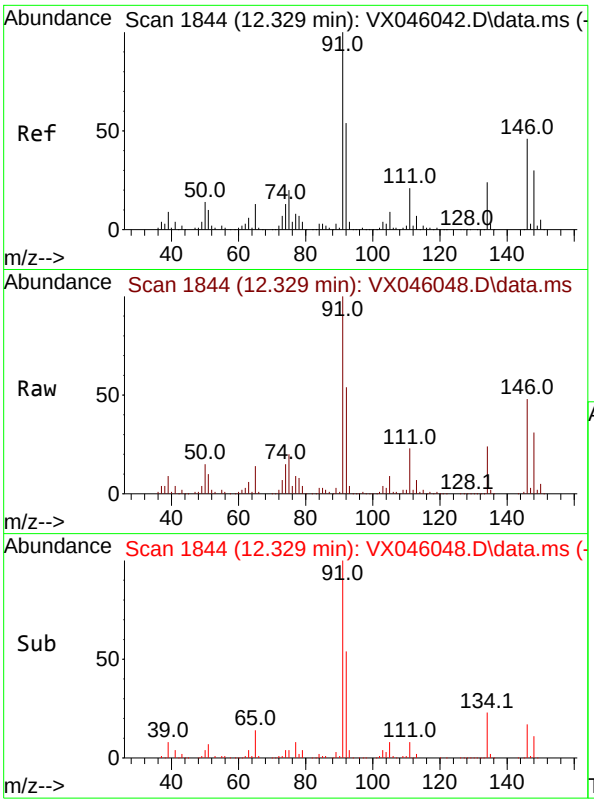


#88
1,4-Dichlorobenzene
Concen: 48.368 ug/l
RT: 12.037 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion:146 Resp: 111173

Ion	Ratio	Lower	Upper
146	100		
111	43.9	21.3	63.9
148	63.3	31.9	95.5

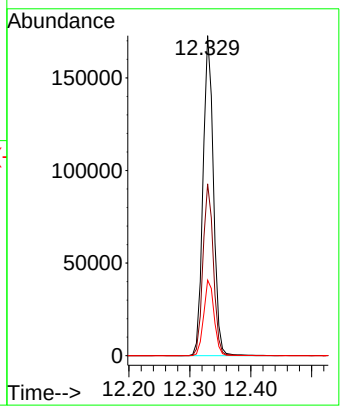




#89
n-Butylbenzene
Concen: 51.804 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 91 Resp: 20585

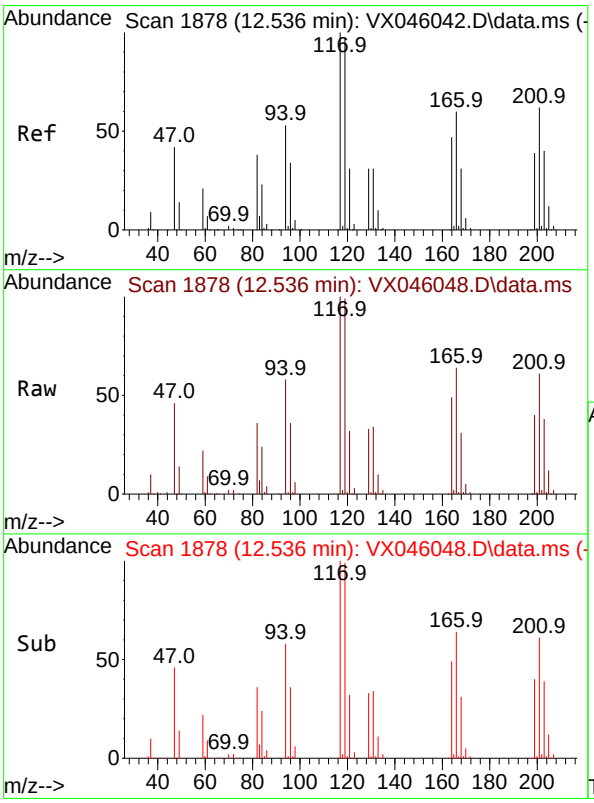
Ion	Ratio	Lower	Upper
91	100		
92	53.7	26.9	80.7
134	23.7	11.8	35.3



Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Manual Integrations APPROVED

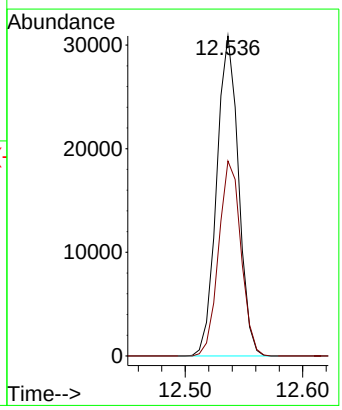
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

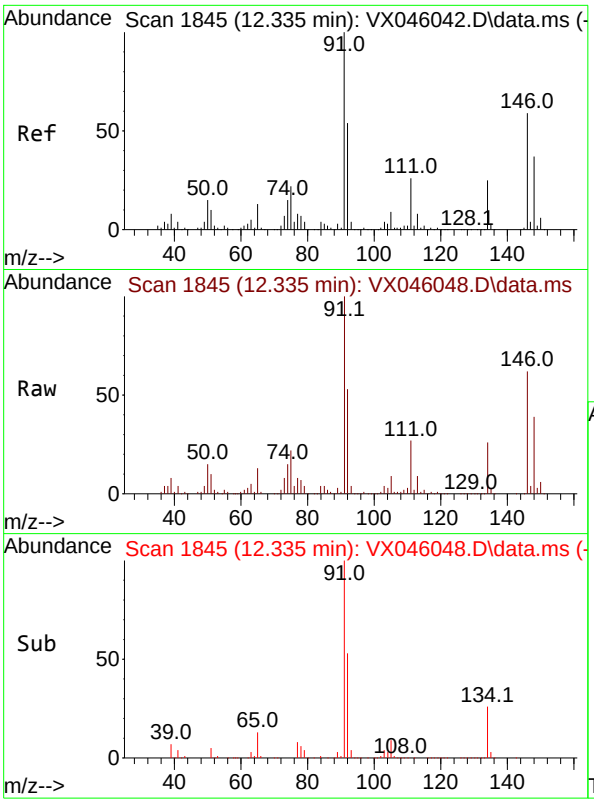


#90
Hexachloroethane
Concen: 49.895 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion:117 Resp: 39823

Ion	Ratio	Lower	Upper
117	100		
201	62.4	31.6	94.7

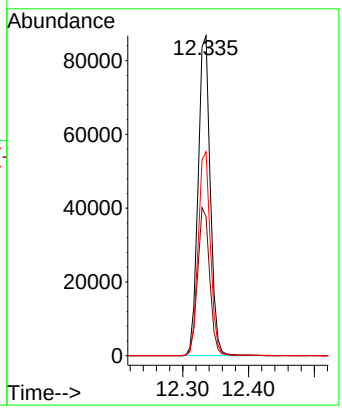




#91
1,2-Dichlorobenzene
Concen: 49.361 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion:146 Resp: 11148

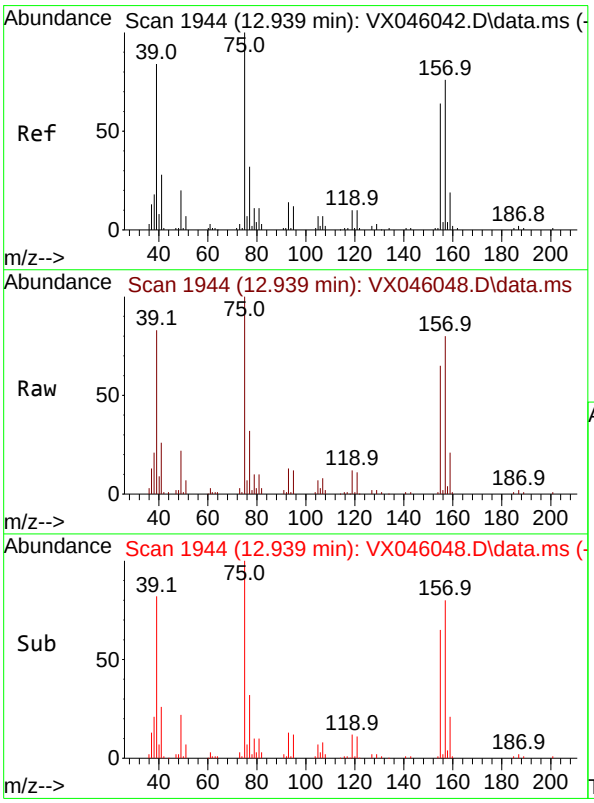
Ion	Ratio	Lower	Upper
146	100		
111	45.8	22.4	67.3
148	64.2	31.6	94.8



Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Manual Integrations APPROVED

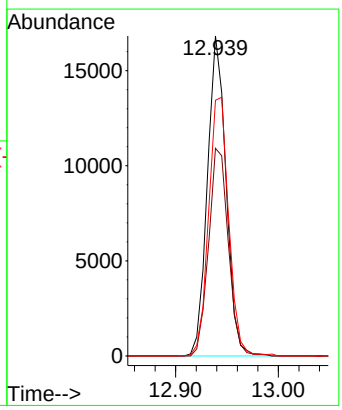
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

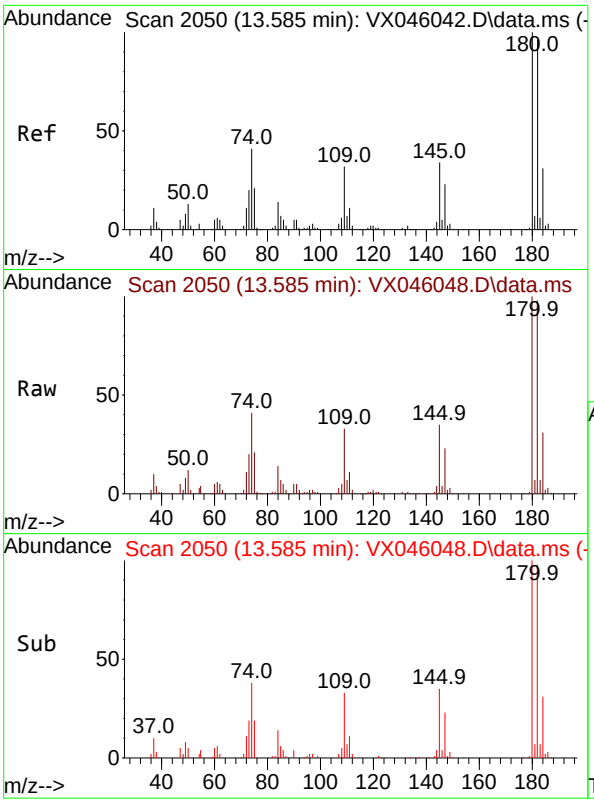


#92
1,2-Dibromo-3-Chloropropane
Concen: 51.458 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 75 Resp: 21220

Ion	Ratio	Lower	Upper
75	100		
155	68.6	34.9	104.8
157	86.7	43.8	131.4

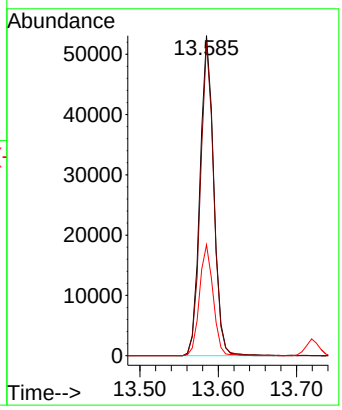




#93
1,2,4-Trichlorobenzene
Concen: 49.662 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion:180 Resp: 6442

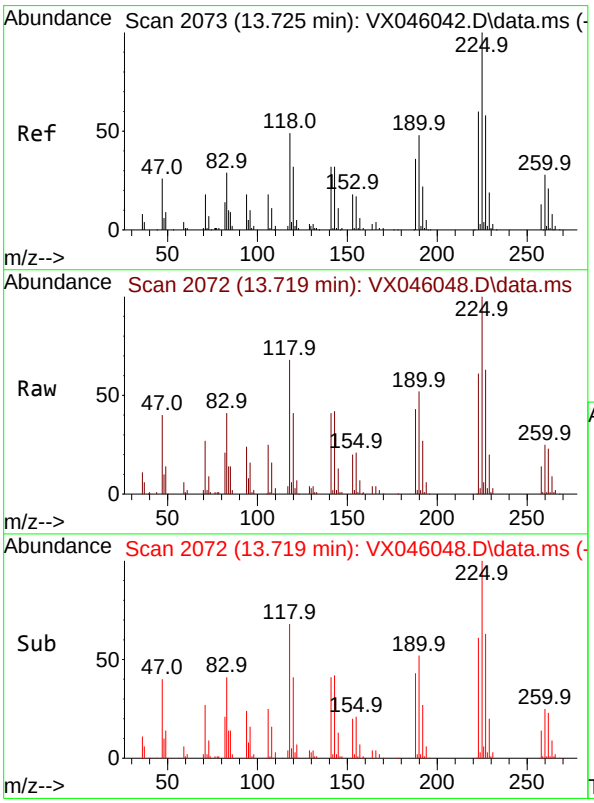
Ion	Ratio	Lower	Upper
180	100		
182	95.5	47.9	143.8
145	34.4	17.1	51.2



Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Manual Integrations
APPROVED

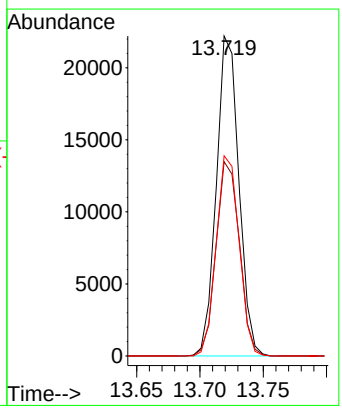
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025

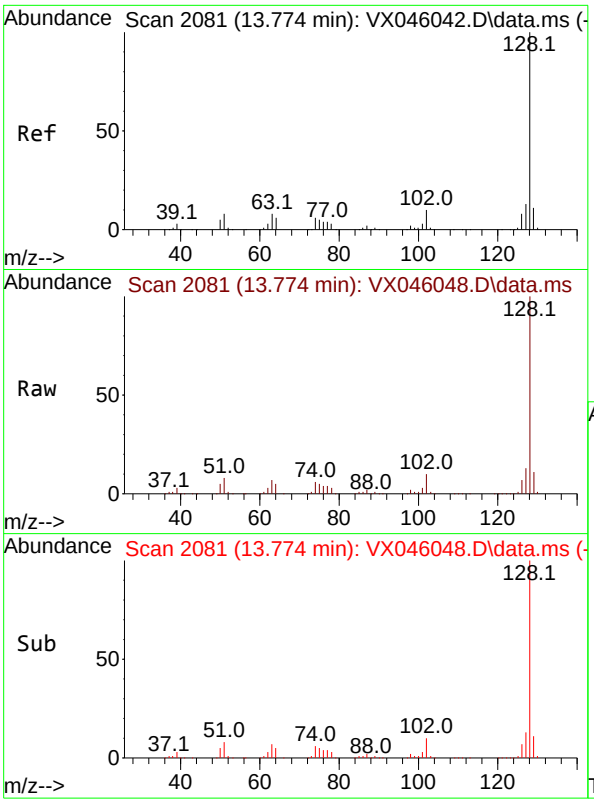


#94
Hexachlorobutadiene
Concen: 48.408 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. -0.006 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion:225 Resp: 27425

Ion	Ratio	Lower	Upper
225	100		
223	63.1	30.8	92.4
227	63.7	30.9	92.7

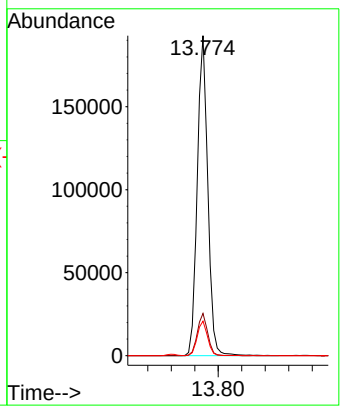




#95
Naphthalene
Concen: 50.404 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion:128 Resp: 23980

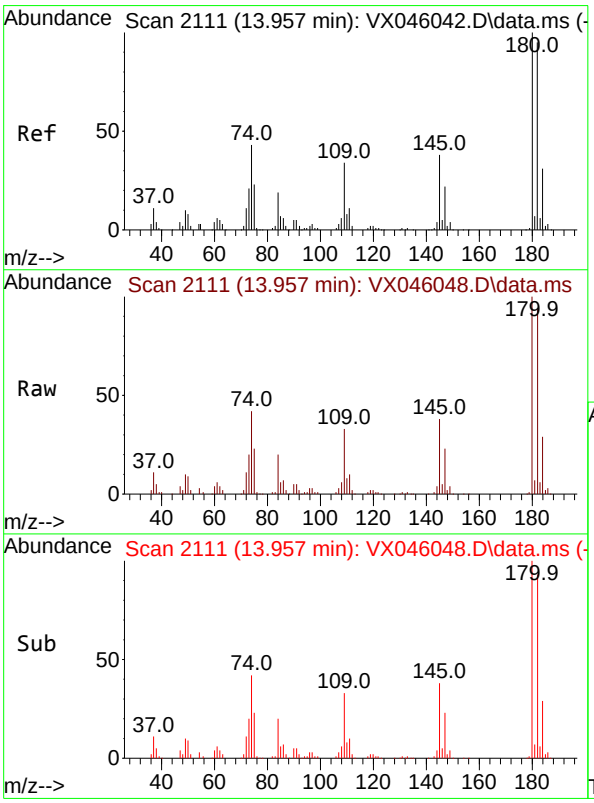
Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.4	15.6
129	10.7	8.6	13.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Manual Integrations APPROVED

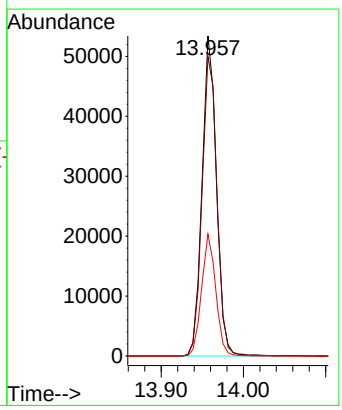
Reviewed By :John Carlone 05/06/2025
Supervised By :Mahesh Dadoda 05/06/2025



#96
1,2,3-Trichlorobenzene
Concen: 48.525 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion:180 Resp: 64950

Ion	Ratio	Lower	Upper
180	100		
182	97.0	47.8	143.3
145	37.5	18.1	54.3



Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046048.D
Acq On : 05 May 2025 16:50
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Quant Time: May 06 07:17:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	95	0.00
2	T	Dichlorodifluoromethane	0.765	0.851	-11.2	94	0.00
3	P	Chloromethane	0.742	0.781	-5.3	96	0.00
4	C	Vinyl Chloride	0.691	0.713	-3.2#	96	0.00
5	T	Bromomethane	0.320	0.324	-1.3	95	0.00
6	T	Chloroethane	0.369	0.385	-4.3	97	0.00
7	T	Trichlorofluoromethane	1.021	1.073	-5.1	96	0.00
8	T	Diethyl Ether	0.347	0.344	0.9	97	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.632	0.642	-1.6	96	0.00
10	T	Methyl Iodide	0.747	0.799	-7.0	94	0.00
11	T	Tert butyl alcohol	0.131	0.132	-0.8	98	0.00
12	CM	1,1-Dichloroethene	0.593	0.606	-2.2#	96	0.00
13	T	Acrolein	0.149	0.139	6.7	87	0.00
14	T	Allyl chloride	1.133	1.175	-3.7	95	0.00
15	T	Acrylonitrile	0.374	0.393	-5.1	97	0.00
16	T	Acetone	0.374	0.367	1.9	97	0.00
17	T	Carbon Disulfide	1.406	1.433	-1.9	94	0.00
18	T	Methyl Acetate	0.867	0.867	0.0	97	0.00
19	T	Methyl tert-butyl Ether	2.079	2.111	-1.5	93	0.00
20	T	Methylene Chloride	0.716	0.684	4.5	95	0.00
21	T	trans-1,2-Dichloroethene	0.596	0.602	-1.0	94	0.00
22	T	Diisopropyl ether	2.189	2.268	-3.6	95	0.00
23	T	Vinyl Acetate	1.925	2.045	-6.2	95	0.00
24	P	1,1-Dichloroethane	1.219	1.239	-1.6	94	0.00
25	T	2-Butanone	0.543	0.558	-2.8	96	0.00
26	T	2,2-Dichloropropane	0.954	0.953	0.1	95	0.00
27	T	cis-1,2-Dichloroethene	0.718	0.731	-1.8	95	0.00
28	T	Bromochloromethane	0.587	0.598	-1.9	99	0.00
29	T	Tetrahydrofuran	0.340	0.354	-4.1	96	0.00
30	C	Chloroform	1.271	1.305	-2.7#	96	0.00
31	T	Cyclohexane	1.111	1.114	-0.3	94	0.00
32	T	1,1,1-Trichloroethane	1.101	1.126	-2.3	95	0.00
33	S	1,2-Dichloroethane-d4	0.932	0.904	3.0	95	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	97	0.00
35	S	Dibromofluoromethane	0.360	0.358	0.6	98	0.00
36	T	1,1-Dichloropropene	0.484	0.479	1.0	94	0.00
37	T	Ethyl Acetate	0.598	0.606	-1.3	96	0.00
38	T	Carbon Tetrachloride	0.544	0.542	0.4	94	0.00
39	T	Methylcyclohexane	0.623	0.620	0.5	94	0.00
40	TM	Benzene	1.417	1.439	-1.6	95	0.00
41	T	Methacrylonitrile	0.313	0.344	-9.9	96	0.00
42	TM	1,2-Dichloroethane	0.612	0.622	-1.6	96	0.00
43	T	Isopropyl Acetate	0.912	0.952	-4.4	96	0.00
44	TM	Trichloroethene	0.341	0.341	0.0	93	0.00
45	C	1,2-Dichloropropane	0.352	0.366	-4.0#	96	0.00
46	T	Dibromomethane	0.278	0.278	0.0	94	0.00
47	T	Bromodichloromethane	0.547	0.568	-3.8	95	0.00
48	T	Methyl methacrylate	0.466	0.505	-8.4	97	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046048.D
Acq On : 05 May 2025 16:50
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Quant Time: May 06 07:17:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.009	0.009	0.0	100	0.00
50	S	Toluene-d8	1.246	1.221	2.0	97	0.00
51	T	4-Methyl-2-Pentanone	0.605	0.627	-3.6	96	0.00
52	CM	Toluene	0.869	0.889	-2.3#	96	0.00
53	T	t-1,3-Dichloropropene	0.487	0.515	-5.7	94	0.00
54	T	cis-1,3-Dichloropropene	0.538	0.569	-5.8	95	0.00
55	T	1,1,2-Trichloroethane	0.343	0.349	-1.7	95	0.00
56	T	Ethyl methacrylate	0.546	0.589	-7.9	96	0.00
57	T	1,3-Dichloropropane	0.615	0.613	0.3	95	0.00
58	T	2-Chloroethyl Vinyl ether	0.278	0.296	-6.5	93	0.00
59	T	2-Hexanone	0.448	0.480	-7.1	98	0.00
60	T	Dibromochloromethane	0.376	0.392	-4.3	95	0.00
61	T	1,2-Dibromoethane	0.356	0.364	-2.2	94	0.00
62	S	4-Bromofluorobenzene	0.478	0.465	2.7	96	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	99	0.00
64	T	Tetrachloroethene	0.354	0.331	6.5	88	0.00
65	PM	Chlorobenzene	1.094	1.066	2.6	96	0.00
66	T	1,1,1,2-Tetrachloroethane	0.374	0.370	1.1	94	0.00
67	C	Ethyl Benzene	1.929	1.939	-0.5#	95	0.00
68	T	m/p-Xylenes	0.706	0.713	-1.0	95	0.00
69	T	o-Xylene	0.688	0.699	-1.6	95	0.00
70	T	Styrene	1.127	1.170	-3.8	95	0.00
71	P	Bromoform	0.281	0.278	1.1	91	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
73	T	Isopropylbenzene	3.893	3.950	-1.5	96	0.00
74	T	N-amyl acetate	1.924	2.016	-4.8	98	0.00
75	P	1,1,2,2-Tetrachloroethane	1.364	1.305	4.3	98	0.00
76	T	1,2,3-Trichloropropane	1.204	1.169	2.9	99	0.00
77	T	Bromobenzene	0.904	0.878	2.9	95	0.00
78	T	n-propylbenzene	4.526	4.577	-1.1	95	0.00
79	T	2-Chlorotoluene	2.919	2.867	1.8	96	0.00
80	T	1,3,5-Trimethylbenzene	3.252	3.350	-3.0	96	0.00
81	T	trans-1,4-Dichloro-2-butene	0.370	0.364	1.6	95	0.00
82	T	4-Chlorotoluene	3.238	3.280	-1.3	96	0.00
83	T	tert-Butylbenzene	3.276	3.309	-1.0	97	0.00
84	T	1,2,4-Trimethylbenzene	3.293	3.391	-3.0	97	0.00
85	T	sec-Butylbenzene	4.022	4.112	-2.2	96	0.00
86	T	p-Isopropyltoluene	3.320	3.399	-2.4	96	0.00
87	T	1,3-Dichlorobenzene	1.649	1.658	-0.5	98	0.00
88	T	1,4-Dichlorobenzene	1.684	1.629	3.3	97	0.00
89	T	n-Butylbenzene	2.912	3.017	-3.6	96	0.00
90	T	Hexachloroethane	0.585	0.584	0.2	94	0.00
91	T	1,2-Dichlorobenzene	1.655	1.634	1.3	97	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.302	0.311	-3.0	97	0.00
93	T	1,2,4-Trichlorobenzene	0.951	0.944	0.7	97	0.00
94	T	Hexachlorobutadiene	0.415	0.402	3.1	95	0.00
95	T	Naphthalene	3.487	3.515	-0.8	98	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046048.D
Acq On : 05 May 2025 16:50
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Quant Time: May 06 07:17:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.981	0.952	3.0	94	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046048.D
Acq On : 05 May 2025 16:50
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Quant Time: May 06 07:17:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	95	0.00
2	T	Dichlorodifluoromethane	50.000	55.594	-11.2	94	0.00
3	P	Chloromethane	50.000	52.592	-5.2	96	0.00
4	C	Vinyl Chloride	50.000	51.598	-3.2#	96	0.00
5	T	Bromomethane	50.000	50.627	-1.3	95	0.00
6	T	Chloroethane	50.000	52.271	-4.5	97	0.00
7	T	Trichlorofluoromethane	50.000	52.560	-5.1	96	0.00
8	T	Diethyl Ether	50.000	49.536	0.9	97	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	50.822	-1.6	96	0.00
10	T	Methyl Iodide	50.000	53.419	-6.8	94	0.00
11	T	Tert butyl alcohol	250.000	252.025	-0.8	98	0.00
12	CM	1,1-Dichloroethene	50.000	51.097	-2.2#	96	0.00
13	T	Acrolein	250.000	232.505	7.0	87	0.00
14	T	Allyl chloride	50.000	51.833	-3.7	95	0.00
15	T	Acrylonitrile	250.000	262.412	-5.0	97	0.00
16	T	Acetone	250.000	245.518	1.8	97	0.00
17	T	Carbon Disulfide	50.000	50.981	-2.0	94	0.00
18	T	Methyl Acetate	50.000	49.968	0.1	97	0.00
19	T	Methyl tert-butyl Ether	50.000	50.777	-1.6	93	0.00
20	T	Methylene Chloride	50.000	47.779	4.4	95	0.00
21	T	trans-1,2-Dichloroethene	50.000	50.513	-1.0	94	0.00
22	T	Diisopropyl ether	50.000	51.800	-3.6	95	0.00
23	T	Vinyl Acetate	250.000	265.585	-6.2	95	0.00
24	P	1,1-Dichloroethane	50.000	50.825	-1.7	94	0.00
25	T	2-Butanone	250.000	257.110	-2.8	96	0.00
26	T	2,2-Dichloropropane	50.000	49.934	0.1	95	0.00
27	T	cis-1,2-Dichloroethene	50.000	50.956	-1.9	95	0.00
28	T	Bromochloromethane	50.000	50.975	-2.0	99	0.00
29	T	Tetrahydrofuran	250.000	259.958	-4.0	96	0.00
30	C	Chloroform	50.000	51.332	-2.7#	96	0.00
31	T	Cyclohexane	50.000	50.147	-0.3	94	0.00
32	T	1,1,1-Trichloroethane	50.000	51.108	-2.2	95	0.00
33	S	1,2-Dichloroethane-d4	50.000	48.509	3.0	95	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	97	0.00
35	S	Dibromofluoromethane	50.000	49.683	0.6	98	0.00
36	T	1,1-Dichloropropene	50.000	49.521	1.0	94	0.00
37	T	Ethyl Acetate	50.000	50.714	-1.4	96	0.00
38	T	Carbon Tetrachloride	50.000	49.825	0.3	94	0.00
39	T	Methylcyclohexane	50.000	49.757	0.5	94	0.00
40	TM	Benzene	50.000	50.759	-1.5	95	0.00
41	T	Methacrylonitrile	50.000	55.076	-10.2	96	0.00
42	TM	1,2-Dichloroethane	50.000	50.861	-1.7	96	0.00
43	T	Isopropyl Acetate	50.000	52.195	-4.4	96	0.00
44	TM	Trichloroethene	50.000	50.018	-0.0	93	0.00
45	C	1,2-Dichloropropane	50.000	51.983	-4.0#	96	0.00
46	T	Dibromomethane	50.000	49.978	0.0	94	0.00
47	T	Bromodichloromethane	50.000	51.889	-3.8	95	0.00
48	T	Methyl methacrylate	50.000	54.226	-8.5	97	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046048.D
Acq On : 05 May 2025 16:50
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Quant Time: May 06 07:17:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	1059.599	-6.0	100	0.00
50	S	Toluene-d8	50.000	48.984	2.0	97	0.00
51	T	4-Methyl-2-Pentanone	250.000	259.133	-3.7	96	0.00
52	CM	Toluene	50.000	51.150	-2.3#	96	0.00
53	T	t-1,3-Dichloropropene	50.000	52.920	-5.8	94	0.00
54	T	cis-1,3-Dichloropropene	50.000	52.892	-5.8	95	0.00
55	T	1,1,2-Trichloroethane	50.000	50.887	-1.8	95	0.00
56	T	Ethyl methacrylate	50.000	53.918	-7.8	96	0.00
57	T	1,3-Dichloropropane	50.000	49.793	0.4	95	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	265.780	-6.3	93	0.00
59	T	2-Hexanone	250.000	268.218	-7.3	98	0.00
60	T	Dibromochloromethane	50.000	52.075	-4.2	95	0.00
61	T	1,2-Dibromoethane	50.000	51.050	-2.1	94	0.00
62	S	4-Bromofluorobenzene	50.000	48.596	2.8	96	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	99	0.00
64	T	Tetrachloroethene	50.000	46.795	6.4	88	0.00
65	PM	Chlorobenzene	50.000	48.699	2.6	96	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	49.557	0.9	94	0.00
67	C	Ethyl Benzene	50.000	50.245	-0.5#	95	0.00
68	T	m/p-Xylenes	100.000	101.022	-1.0	95	0.00
69	T	o-Xylene	50.000	50.841	-1.7	95	0.00
70	T	Styrene	50.000	51.907	-3.8	95	0.00
71	P	Bromoform	50.000	49.583	0.8	91	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	100	0.00
73	T	Isopropylbenzene	50.000	50.733	-1.5	96	0.00
74	T	N-amyl acetate	50.000	52.407	-4.8	98	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	47.827	4.3	98	0.00
76	T	1,2,3-Trichloropropane	50.000	48.568	2.9	99	0.00
77	T	Bromobenzene	50.000	48.549	2.9	95	0.00
78	T	n-propylbenzene	50.000	50.562	-1.1	95	0.00
79	T	2-Chlorotoluene	50.000	49.107	1.8	96	0.00
80	T	1,3,5-Trimethylbenzene	50.000	51.500	-3.0	96	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	49.276	1.4	95	0.00
82	T	4-Chlorotoluene	50.000	50.661	-1.3	96	0.00
83	T	tert-Butylbenzene	50.000	50.511	-1.0	97	0.00
84	T	1,2,4-Trimethylbenzene	50.000	51.485	-3.0	97	0.00
85	T	sec-Butylbenzene	50.000	51.122	-2.2	96	0.00
86	T	p-Isopropyltoluene	50.000	51.198	-2.4	96	0.00
87	T	1,3-Dichlorobenzene	50.000	50.272	-0.5	98	0.00
88	T	1,4-Dichlorobenzene	50.000	48.368	3.3	97	0.00
89	T	n-Butylbenzene	50.000	51.804	-3.6	96	0.00
90	T	Hexachloroethane	50.000	49.895	0.2	94	0.00
91	T	1,2-Dichlorobenzene	50.000	49.361	1.3	97	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	51.458	-2.9	97	0.00
93	T	1,2,4-Trichlorobenzene	50.000	49.662	0.7	97	0.00
94	T	Hexachlorobutadiene	50.000	48.408	3.2	95	0.00
95	T	Naphthalene	50.000	50.404	-0.8	98	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046048.D
Acq On : 05 May 2025 16:50
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Quant Time: May 06 07:17:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	48.525	3.0	94	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2118 SAS No.: Q2118 SDG No.: Q2118

Instrument ID: MSVOA_Y Calibration Date(s): 05/15/2025 05/15/2025

Heated Purge: (Y/N) Y Calibration Time(s): 09:46 11:47

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID: RRF005 = VY022253.D RRF010 = VY022254.D RRF020 = VY022255.D
RRF050 = VY022256.D RRF100 = VY022257.D RRF150 = VY022258.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Chloromethane	1.212	1.237	1.153	1.042	1.046	0.894	1.097	11.7
Vinyl Chloride	1.265	1.317	1.264	1.210	1.190	1.110	1.226	5.9
Bromomethane	1.107	1.033	1.058	0.877	0.955	0.959	0.998	8.3
Chloroethane	0.751	0.814	0.796	0.756	0.733	0.727	0.763	4.6
Trichlorofluoromethane	1.254	1.292	1.260	1.214	1.211	1.217	1.241	2.6
1,1,2-Trichlorotrifluoroethane	0.548	0.577	0.544	0.538	0.507	0.520	0.539	4.5
1,1-Dichloroethene	0.545	0.544	0.540	0.539	0.518	0.523	0.535	2.2
Acetone	0.126	0.114	0.096	0.093	0.094	0.092	0.102	13.6
Carbon Disulfide	1.768	1.822	1.764	1.753	1.679	1.679	1.744	3.2
Methyl tert-butyl Ether	1.463	1.523	1.393	1.459	1.504	1.507	1.475	3.2
Methylene Chloride	0.797	0.811	0.646	0.597	0.570	0.552	0.662	17.3
trans-1,2-Dichloroethene	0.577	0.609	0.603	0.592	0.580	0.581	0.590	2.2
1,1-Dichloroethane	1.112	1.136	1.099	1.117	1.093	1.082	1.106	1.7
2-Butanone	0.180	0.181	0.158	0.161	0.174	0.174	0.171	5.6
Carbon Tetrachloride	0.485	0.524	0.494	0.516	0.509	0.524	0.509	3.2
cis-1,2-Dichloroethene	0.662	0.687	0.668	0.691	0.687	0.693	0.681	1.9
Chloroform	1.032	1.079	1.067	1.079	1.054	1.057	1.061	1.7
1,1,1-Trichloroethane	1.007	0.997	0.960	0.969	0.944	0.964	0.974	2.4
Methylcyclohexane	0.664	0.678	0.645	0.670	0.639	0.667	0.660	2.3
Benzene	1.369	1.462	1.435	1.499	1.482	1.496	1.457	3.4
1,2-Dichloroethane	0.381	0.399	0.378	0.402	0.403	0.402	0.394	2.9
Trichloroethene	0.358	0.366	0.361	0.371	0.356	0.363	0.362	1.5
1,2-Dichloropropane	0.337	0.361	0.344	0.357	0.354	0.355	0.351	2.6
Bromodichloromethane	0.466	0.494	0.476	0.506	0.504	0.504	0.492	3.4
4-Methyl-2-Pentanone	0.238	0.247	0.230	0.253	0.275	0.275	0.253	7.4
Toluene	0.871	0.924	0.890	0.944	0.947	0.961	0.923	3.8
t-1,3-Dichloropropene	0.464	0.473	0.457	0.487	0.498	0.499	0.480	3.7
cis-1,3-Dichloropropene	0.523	0.548	0.535	0.562	0.562	0.568	0.550	3.2
1,1,2-Trichloroethane	0.241	0.243	0.232	0.243	0.248	0.249	0.243	2.4
2-Hexanone	0.167	0.167	0.151	0.166	0.183	0.185	0.170	7.4

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2118 SAS No.: Q2118 SDG No.: Q2118

Instrument ID: MSVOA_Y Calibration Date(s): 05/15/2025 05/15/2025

Heated Purge: (Y/N) Y Calibration Time(s): 09:46 11:47

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID: RRF005 = VY022253.D RRF010 = VY022254.D RRF020 = VY022255.D
RRF050 = VY022256.D RRF100 = VY022257.D RRF150 = VY022258.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Dibromochloromethane	0.296	0.314	0.298	0.323	0.329	0.330	0.315	4.9
Tetrachloroethene	0.474	0.481	0.470	0.474	0.446	0.429	0.462	4.4
Chlorobenzene	1.112	1.110	1.106	1.154	1.143	1.143	1.128	1.9
Ethyl Benzene	2.014	2.043	2.049	2.175	2.173	2.222	2.113	4.1
m/p-Xylenes	0.749	0.770	0.763	0.818	0.825	0.852	0.796	5.2
o-Xylene	0.704	0.741	0.723	0.768	0.782	0.802	0.753	4.9
Styrene	1.182	1.214	1.210	1.303	1.335	1.380	1.270	6.3
Bromoform	0.202	0.214	0.194	0.209	0.219	0.217	0.209	4.5
Isopropylbenzene	4.157	4.192	4.100	4.197	4.028	4.181	4.142	1.6
1,1,2,2-Tetrachloroethane	0.656	0.647	0.581	0.628	0.645	0.666	0.637	4.8
1,3-Dichlorobenzene	1.757	1.774	1.715	1.838	1.839	1.914	1.806	4
1,4-Dichlorobenzene	1.759	1.765	1.706	1.750	1.723	1.720	1.737	1.4
1,2-Dichlorobenzene	1.526	1.520	1.479	1.534	1.520	1.523	1.517	1.3
1,2-Dichloroethane-d4	0.547	0.559	0.527	0.541	0.545	0.560	0.546	2.2
Dibromofluoromethane	0.294	0.294	0.294	0.301	0.297	0.310	0.298	2.2
Toluene-d8	1.224	1.200	1.195	1.230	1.214	1.272	1.222	2.3
4-Bromofluorobenzene	0.390	0.386	0.368	0.387	0.387	0.407	0.387	3.3

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Response Factor Report GCVOA_Y

Method Path : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\
Method File : 82Y051525S.M
Title : SW846 8260
Last Update : Fri May 16 01:42:09 2025
Response Via : Initial Calibration

Calibration Files
5 =VY022253.D 10 =VY022254.D 20 =VY022255.D 50 =VY022256.D 100 =VY022257.D 150 =VY022258.D

		Compound	5	10	20	50	100	150	Avg	%RSD
1)	I	Pentafluorobenzene	----------ISTD----------							
2)	T	Dichlorodifluo...	0.546	0.587	0.541	0.507	0.470	0.479	0.522	8.51
3)	P	Chloromethane	1.212	1.237	1.153	1.042	1.046	0.894	1.097	11.72
4)	C	Vinyl Chloride	1.265	1.317	1.264	1.210	1.190	1.110	1.226	5.91#
5)	T	Bromomethane	1.107	1.033	1.058	0.877	0.955	0.959	0.998	8.33
6)	T	Chloroethane	0.751	0.814	0.796	0.756	0.733	0.727	0.763	4.56
7)	T	Trichlorofluor...	1.254	1.292	1.260	1.214	1.211	1.217	1.241	2.64
8)	T	Diethyl Ether	0.305	0.320	0.283	0.294	0.295	0.291	0.298	4.33
9)	T	1,1,2-Trichlor...	0.548	0.577	0.544	0.538	0.507	0.520	0.539	4.50
10)	T	Methyl Iodide	0.559	0.586	0.620	0.687	0.651	0.638	0.624	7.35
11)	T	Tert butyl alc...	0.045	0.045	0.037	0.039	0.042	0.042	0.042	7.70
12)	CM	1,1-Dichloroet...	0.545	0.544	0.540	0.539	0.518	0.523	0.535	2.17#
13)	T	Acrolein	0.068	0.068	0.057	0.056	0.058	0.058	0.061	8.63
14)	T	Allyl chloride	0.888	0.967	0.949	0.959	0.932	0.931	0.938	3.00
15)	T	Acrylonitrile	0.123	0.126	0.115	0.120	0.127	0.126	0.123	3.79
16)	T	Acetone	0.126	0.114	0.096	0.093	0.094	0.092	0.102	13.64
17)	T	Carbon Disulfide	1.768	1.822	1.764	1.753	1.679	1.679	1.744	3.20
18)	T	Methyl Acetate	0.349	0.308	0.286	0.302	0.346	0.347	0.323	8.55
19)	T	Methyl tert-bu...	1.463	1.523	1.393	1.459	1.504	1.507	1.475	3.22
20)	T	Methylene Chlo...	0.797	0.811	0.646	0.597	0.570	0.552	0.662	17.28
21)	T	trans-1,2-Dich...	0.577	0.609	0.603	0.592	0.580	0.581	0.590	2.22
22)	T	Diisopropyl ether	1.947	2.009	1.937	1.986	2.003	2.001	1.980	1.57
23)	T	Vinyl Acetate	1.214	1.225	1.134	1.174	1.214	1.218	1.196	2.99
24)	P	1,1-Dichloroet...	1.112	1.136	1.099	1.117	1.093	1.082	1.106	1.73
25)	T	2-Butanone	0.180	0.181	0.158	0.161	0.174	0.174	0.171	5.60
26)	T	2,2-Dichloropr...	0.994	1.024	0.971	0.987	0.961	0.968	0.984	2.33
27)	T	cis-1,2-Dichlo...	0.662	0.687	0.668	0.691	0.687	0.693	0.681	1.91
28)	T	Bromochloromet...	0.463	0.484	0.467	0.473	0.469	0.476	0.472	1.62
29)	T	Tetrahydrofuran	0.105	0.116	0.102	0.107	0.116	0.116	0.110	5.98
30)	C	Chloroform	1.032	1.079	1.067	1.079	1.054	1.057	1.061	1.66#
31)	T	Cyclohexane	1.300	1.191	1.077	1.055	0.998	1.011	1.105	10.63
32)	T	1,1,1-Trichlor...	1.007	0.997	0.960	0.969	0.944	0.964	0.974	2.43
33)	S	1,2-Dichloroet...	0.547	0.559	0.527	0.541	0.545	0.560	0.546	2.24
34)	I	1,4-Difluorobenzene	----------ISTD----------							
35)	S	Dibromofluorom...	0.294	0.294	0.294	0.301	0.297	0.310	0.298	2.17
36)	T	1,1-Dichloropr...	0.474	0.502	0.488	0.505	0.484	0.496	0.492	2.39
37)	T	Ethyl Acetate	0.253	0.231	0.219	0.234	0.240	0.241	0.237	4.87
38)	T	Carbon Tetrach...	0.485	0.524	0.494	0.516	0.509	0.524	0.509	3.18
39)	T	Methylcyclohexane	0.664	0.678	0.645	0.670	0.639	0.667	0.660	2.30
40)	TM	Benzene	1.369	1.462	1.435	1.499	1.482	1.496	1.457	3.37
41)	T	Methacrylonitrile	0.153	0.182	0.148	0.158	0.148	0.152	0.157	8.18
42)	TM	1,2-Dichloroet...	0.381	0.399	0.378	0.402	0.403	0.402	0.394	2.86
43)	T	Isopropyl Acetate	0.510	0.527	0.480	0.514	0.534	0.530	0.516	3.83
44)	TM	Trichloroethene	0.358	0.366	0.361	0.371	0.356	0.363	0.362	1.48
45)	C	1,2-Dichloropr...	0.337	0.361	0.344	0.357	0.354	0.355	0.351	2.58#
46)	T	Dibromomethane	0.189	0.192	0.180	0.189	0.193	0.194	0.189	2.59
47)	T	Bromodichlorom...	0.466	0.494	0.476	0.506	0.504	0.504	0.492	3.42
48)	T	Methyl methacr...	0.228	0.238	0.224	0.240	0.259	0.259	0.241	6.19
49)	T	1,4-Dioxane	0.002	0.002	0.002	0.002	0.002	0.002	0.002	4.33
50)	S	Toluene-d8	1.224	1.200	1.195	1.230	1.214	1.272	1.222	2.26
51)	T	4-Methyl-2-Pen...	0.238	0.247	0.230	0.253	0.275	0.275	0.253	7.43
52)	CM	Toluene	0.871	0.924	0.890	0.944	0.947	0.961	0.923	3.82#
53)	T	t-1,3-Dichloro...	0.464	0.473	0.457	0.487	0.498	0.499	0.480	3.71
54)	T	cis-1,3-Dichlo...	0.523	0.548	0.535	0.562	0.562	0.568	0.550	3.22
55)	T	1,1,2-Trichlor...	0.241	0.243	0.232	0.243	0.248	0.249	0.243	2.42
56)	T	Ethyl methacry...	0.370	0.362	0.354	0.381	0.398	0.403	0.378	5.26

Method Path : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\
Method File : 82Y051525S.M

57)	T	1,3-Dichloropr...	0.418	0.436	0.413	0.438	0.442	0.440	0.431	2.80
58)	T	2-Chloroethyl ...	0.141	0.150	0.144	0.183	0.197	0.203	0.170	16.60
59)	T	2-Hexanone	0.167	0.167	0.151	0.166	0.183	0.185	0.170	7.38
60)	T	Dibromochlorom...	0.296	0.314	0.298	0.323	0.329	0.330	0.315	4.88
61)	T	1,2-Dibromoethane	0.221	0.228	0.214	0.227	0.234	0.232	0.226	3.22
62)	S	4-Bromofluorob...	0.390	0.386	0.368	0.387	0.387	0.407	0.387	3.25
63)	I	Chlorobenzene-d5	----------ISTD----------							
64)	T	Tetrachloroethene	0.474	0.481	0.470	0.474	0.446	0.429	0.462	4.37
65)	PM	Chlorobenzene	1.112	1.110	1.106	1.154	1.143	1.143	1.128	1.87
66)	T	1,1,1,2-Tetrac...	0.373	0.377	0.372	0.394	0.399	0.411	0.388	4.14
67)	C	Ethyl Benzene	2.014	2.043	2.049	2.175	2.173	2.222	2.113	4.13#
68)	T	m/p-Xylenes	0.749	0.770	0.763	0.818	0.825	0.852	0.796	5.16
69)	T	o-Xylene	0.704	0.741	0.723	0.768	0.782	0.802	0.753	4.93
70)	T	Styrene	1.182	1.214	1.210	1.303	1.335	1.380	1.270	6.28
71)	P	Bromoform	0.202	0.214	0.194	0.209	0.219	0.217	0.209	4.53
72)	I	1,4-Dichlorobenzen...	----------ISTD----------							
73)	T	Isopropylbenzene	4.157	4.192	4.100	4.197	4.028	4.181	4.142	1.60
74)	T	N-amyl acetate	1.195	1.173	1.114	1.159	1.235	1.232	1.185	3.91
75)	P	1,1,2,2-Tetrac...	0.656	0.647	0.581	0.628	0.645	0.666	0.637	4.77
76)	T	1,2,3-Trichlor...	0.522	0.467	0.516	0.501	0.521	0.514	0.507	4.12
77)	T	Bromobenzene	0.887	0.885	0.848	0.895	0.889	0.904	0.885	2.17
78)	T	n-propylbenzene	5.031	5.047	4.904	5.127	4.865	5.006	4.996	1.93
79)	T	2-Chlorotoluene	2.715	2.786	2.694	2.804	2.704	2.772	2.746	1.71
80)	T	1,3,5-Trimethy...	3.393	3.386	3.275	3.410	3.251	3.349	3.344	1.98
81)	T	trans-1,4-Dich...	0.269	0.260	0.241	0.237	0.246	0.248	0.250	4.80
82)	T	4-Chlorotoluene	2.801	2.829	2.744	2.907	2.797	2.867	2.824	2.02
83)	T	tert-Butylbenzene	3.037	2.974	2.900	3.029	2.879	3.014	2.972	2.29
84)	T	1,2,4-Trimethy...	3.189	3.349	3.206	3.413	3.329	3.431	3.319	3.07
85)	T	sec-Butylbenzene	4.390	4.461	4.318	4.573	4.307	4.421	4.412	2.24
86)	T	p-Isopropyltol...	3.598	3.610	3.573	3.818	3.754	3.911	3.710	3.72
87)	T	1,3-Dichlorobe...	1.757	1.774	1.715	1.838	1.839	1.914	1.806	3.96
88)	T	1,4-Dichlorobe...	1.759	1.765	1.706	1.750	1.723	1.720	1.737	1.39
89)	T	n-Butylbenzene	3.419	3.500	3.490	3.668	3.452	3.533	3.510	2.47
90)	T	Hexachloroethane	0.773	0.759	0.736	0.761	0.726	0.740	0.749	2.36
91)	T	1,2-Dichlorobe...	1.526	1.520	1.479	1.534	1.520	1.523	1.517	1.27
92)	T	1,2-Dibromo-3-...	0.107	0.104	0.093	0.100	0.109	0.104	0.103	5.68
93)	T	1,2,4-Trichlor...	0.860	0.845	0.848	0.900	0.904	0.902	0.876	3.23
94)	T	Hexachlorobuta...	0.511	0.485	0.496	0.502	0.474	0.464	0.489	3.56
95)	T	Naphthalene	1.704	1.579	1.527	1.653	1.778	1.737	1.663	5.78
96)	T	1,2,3-Trichlor...	0.753	0.721	0.702	0.752	0.777	0.756	0.743	3.64

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022253.D
Acq On : 15 May 2025 09:46
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

Quant Time: May 16 01:20:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:19:39 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	7.713	168	276170	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	8.616	114	470488	50.000	ug/l		0.00
63) Chlorobenzene-d5	11.420	117	385399	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	13.353	152	174003	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	8.067	65	15118	5.009	ug/l		0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	10.020%#			
35) Dibromofluoromethane	7.634	113	13854	4.933	ug/l		0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	9.860%#			
50) Toluene-d8	10.109	98	57575	5.006	ug/l		0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	10.020%#			
62) 4-Bromofluorobenzene	12.408	95	18328	5.028	ug/l		0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	10.060%#			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.867	85	15071	5.230	ug/l		96
3) Chloromethane	2.068	50	33477	5.523	ug/l		100
4) Vinyl Chloride	2.208	62	34943	5.159	ug/l		96
5) Bromomethane	2.598	94	30561	5.543	ug/l		99
6) Chloroethane	2.739	64	20741	4.923	ug/l		97
7) Trichlorofluoromethane	3.056	101	34641	5.052	ug/l		98
8) Diethyl Ether	3.458	74	8435	5.126	ug/l		99
9) 1,1,2-Trichlorotrifluo...	3.824	101	15124	5.081	ug/l		95
10) Methyl Iodide	4.013	142	15449	4.484	ug/l		99
11) Tert butyl alcohol	4.879	59	6159	26.722	ug/l	#	100
12) 1,1-Dichloroethene	3.787	96	15064	5.099	ug/l		93
13) Acrolein	3.653	56	9366	27.796	ug/l		94
14) Allyl chloride	4.385	41	24537	4.737	ug/l		94
15) Acrylonitrile	5.061	53	17036	25.125	ug/l		100
16) Acetone	3.879	43	17340	30.639	ug/l		91
17) Carbon Disulfide	4.110	76	48817	5.068	ug/l		99
18) Methyl Acetate	4.391	43	9639m	5.597	ug/l		
19) Methyl tert-butyl Ether	5.128	73	40392	4.959	ug/l		97
20) Methylene Chloride	4.610	84	22002	6.016	ug/l		93
21) trans-1,2-Dichloroethene	5.110	96	15943	4.889	ug/l		85
22) Diisopropyl ether	6.025	45	53760	4.915	ug/l		97
23) Vinyl Acetate	5.964	43	167594	25.361	ug/l		96
24) 1,1-Dichloroethane	5.921	63	30712	5.026	ug/l		97
25) 2-Butanone	6.903	43	24805	26.203	ug/l		91
26) 2,2-Dichloropropane	6.884	77	27440	5.048	ug/l		97
27) cis-1,2-Dichloroethene	6.896	96	18276	4.857	ug/l		98
28) Bromochloromethane	7.250	49	12774	4.901	ug/l		98
29) Tetrahydrofuran	7.268	42	14502	23.811	ug/l		93
30) Chloroform	7.421	83	28505	4.863	ug/l		94
31) Cyclohexane	7.701	56	35904	5.880	ug/l	#	89
32) 1,1,1-Trichloroethane	7.622	97	27801	5.170	ug/l		96
36) 1,1-Dichloropropene	7.841	75	22314	4.824	ug/l		97
37) Ethyl Acetate	6.994	43	11910	5.352	ug/l		96
38) Carbon Tetrachloride	7.823	117	22826	4.768	ug/l		98
39) Methylcyclohexane	9.109	83	31218	5.024	ug/l		98
40) Benzene	8.085	78	64430	4.699	ug/l		94

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022253.D
Acq On : 15 May 2025 09:46
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

Quant Time: May 16 01:20:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:19:39 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	7.244	41	7201m	4.422 ug/l		
42) 1,2-Dichloroethane	8.158	62	17934	4.837 ug/l		97
43) Isopropyl Acetate	8.201	43	23979	4.941 ug/l		99
44) Trichloroethene	8.872	130	16852	4.943 ug/l		95
45) 1,2-Dichloropropane	9.146	63	15855	4.796 ug/l		95
46) Dibromomethane	9.238	93	8879	4.980 ug/l		92
47) Bromodichloromethane	9.427	83	21906	4.736 ug/l	#	95
48) Methyl methacrylate	9.225	41	10729	4.727 ug/l		98
49) 1,4-Dioxane	9.244	88	1962	97.404 ug/l	#	78
51) 4-Methyl-2-Pentanone	10.000	43	55880	23.464 ug/l		97
52) Toluene	10.170	92	41001	4.722 ug/l		99
53) t-1,3-Dichloropropene	10.396	75	21842	4.839 ug/l		100
54) cis-1,3-Dichloropropene	9.859	75	24609	4.758 ug/l		97
55) 1,1,2-Trichloroethane	10.573	97	11333	4.964 ug/l	#	89
56) Ethyl methacrylate	10.438	69	17420	4.898 ug/l		98
57) 1,3-Dichloropropane	10.725	76	19684	4.852 ug/l		98
58) 2-Chloroethyl Vinyl ether	9.713	63	33215	20.807 ug/l		100
59) 2-Hexanone	10.762	43	39307	24.617 ug/l		100
60) Dibromochloromethane	10.914	129	13908	4.693 ug/l		98
61) 1,2-Dibromoethane	11.018	107	10391	4.883 ug/l		94
64) Tetrachloroethene	10.652	164	18255	5.125 ug/l		96
65) Chlorobenzene	11.444	112	42844	4.927 ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.518	131	14385	4.812 ug/l		99
67) Ethyl Benzene	11.524	91	77606	4.766 ug/l		99
68) m/p-Xylenes	11.633	106	57721	9.407 ug/l		99
69) o-Xylene	11.957	106	27130	4.673 ug/l		99
70) Styrene	11.975	104	45556	4.652 ug/l		99
71) Bromoform	12.133	173	7799	4.834 ug/l	#	94
73) Isopropylbenzene	12.255	105	72325	5.017 ug/l		98
74) N-amyl acetate	12.072	43	20793	5.043 ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.511	83	11422	5.152 ug/l		99
76) 1,2,3-Trichloropropane	12.560	75	9076m	2.960 ug/l		
77) Bromobenzene	12.536	156	15441	5.015 ug/l		97
78) n-propylbenzene	12.597	91	87533	5.034 ug/l		98
79) 2-Chlorotoluene	12.682	91	47245	4.944 ug/l		97
80) 1,3,5-Trimethylbenzene	12.737	105	59031	5.073 ug/l		98
81) trans-1,4-Dichloro-2-b...	12.310	75	4676	5.373 ug/l		97
82) 4-Chlorotoluene	12.780	91	48737	4.959 ug/l		98
83) tert-Butylbenzene	12.999	119	52841	5.109 ug/l		99
84) 1,2,4-Trimethylbenzene	13.048	105	55488	4.804 ug/l		97
85) sec-Butylbenzene	13.176	105	76384	4.975 ug/l		97
86) p-Isopropyltoluene	13.292	119	62608	4.849 ug/l		99
87) 1,3-Dichlorobenzene	13.292	146	30564	4.863 ug/l		99
88) 1,4-Dichlorobenzene	13.371	146	30610	5.063 ug/l		96
89) n-Butylbenzene	13.621	91	59485	4.869 ug/l		99
90) Hexachloroethane	13.883	117	13445	5.158 ug/l		96
91) 1,2-Dichlorobenzene	13.664	146	26556	5.030 ug/l		98
92) 1,2-Dibromo-3-Chloropr...	14.279	75	1865	5.217 ug/l		98
93) 1,2,4-Trichlorobenzene	14.926	180	14961	4.906 ug/l		94
94) Hexachlorobutadiene	15.029	225	8887	5.226 ug/l		99
95) Naphthalene	15.151	128	29654	5.124 ug/l		98
96) 1,2,3-Trichlorobenzene	15.334	180	13097	5.063 ug/l		97

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022253.D
Acq On : 15 May 2025 09:46
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

Quant Time: May 16 01:20:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:19:39 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022253.D
Acq On : 15 May 2025 09:46
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 16 01:20:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:19:39 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 05/16/2025
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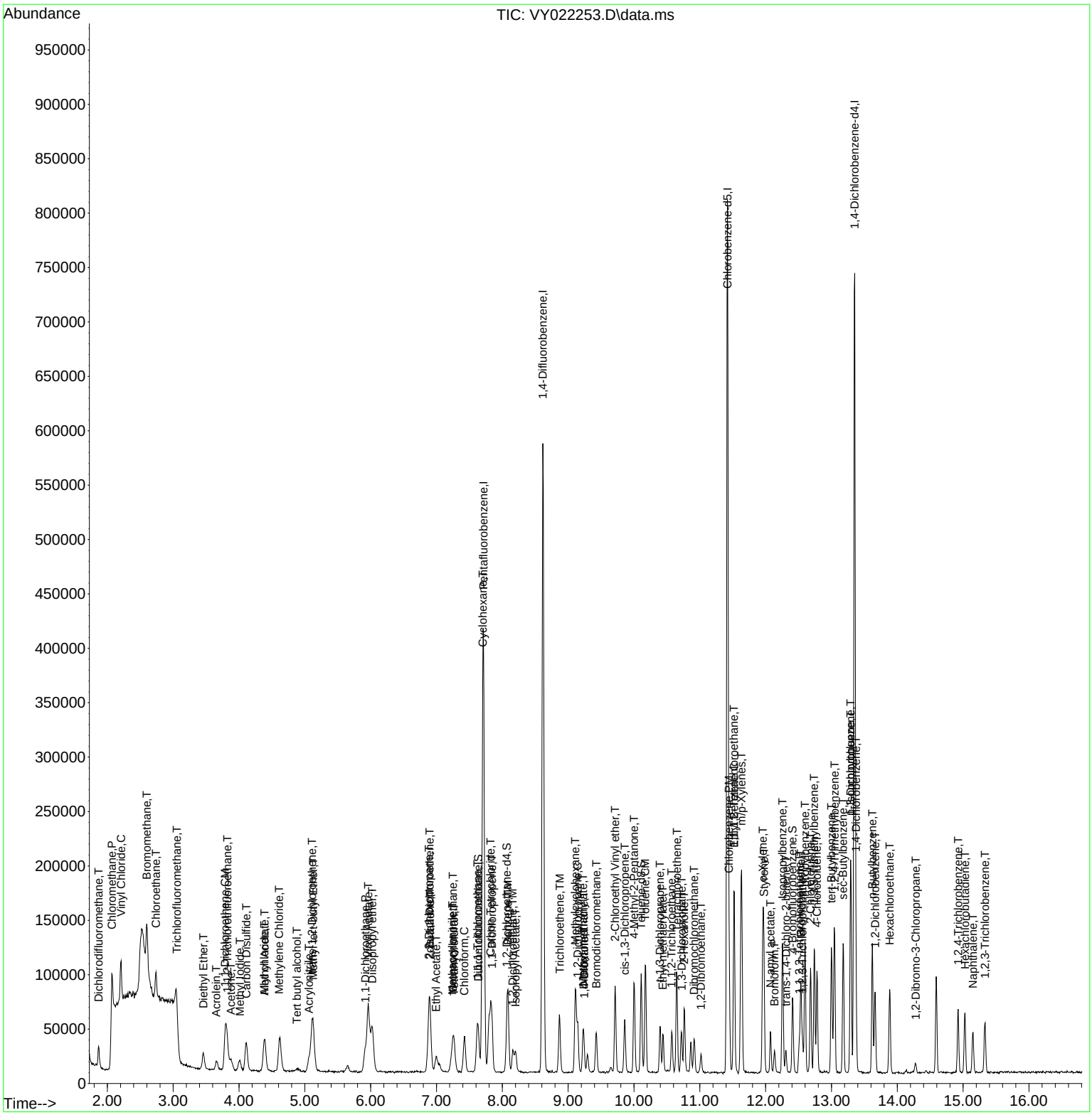
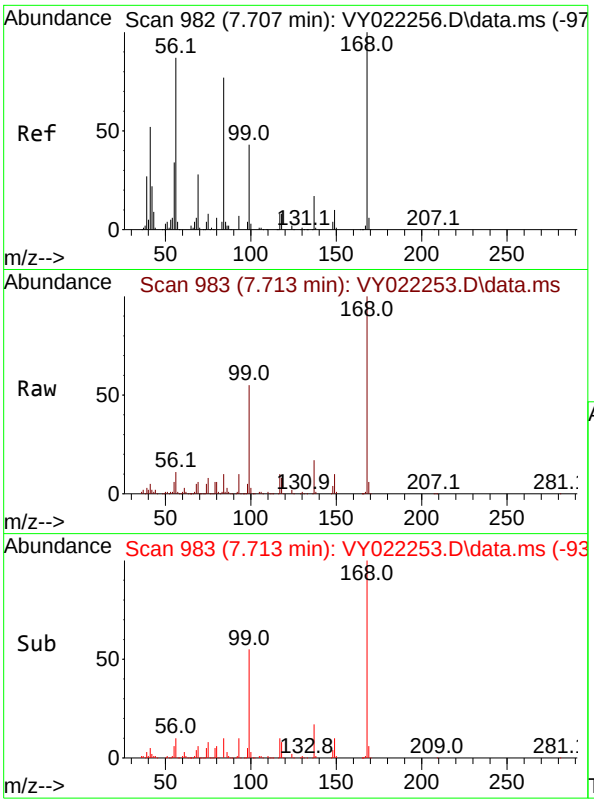
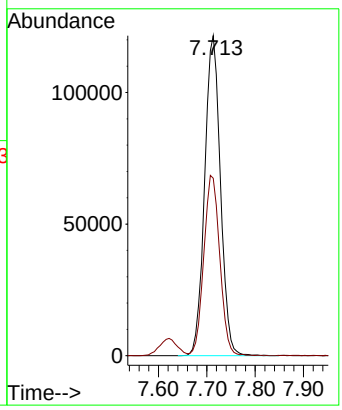




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion:168 Resp: 27617

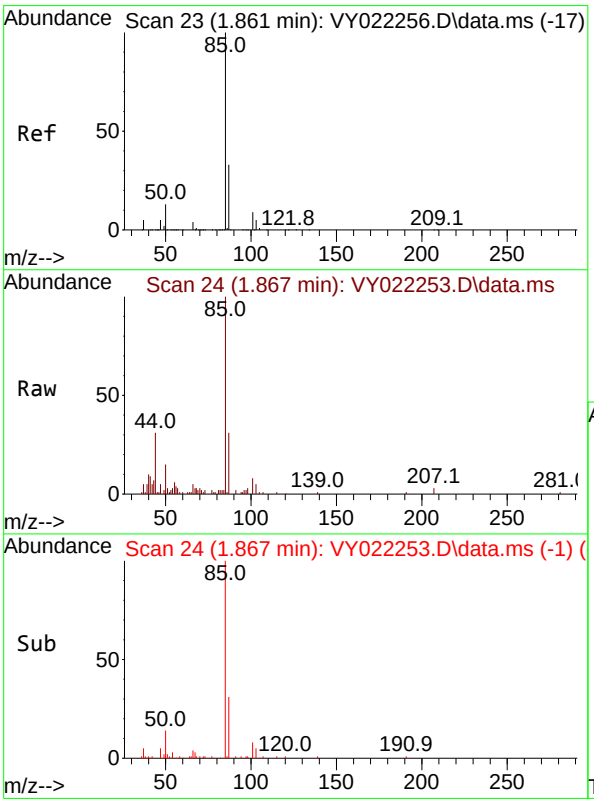
Ion	Ratio	Lower	Upper
168	100		
99	55.4	44.2	66.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

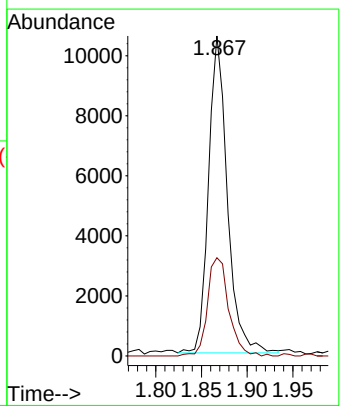
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

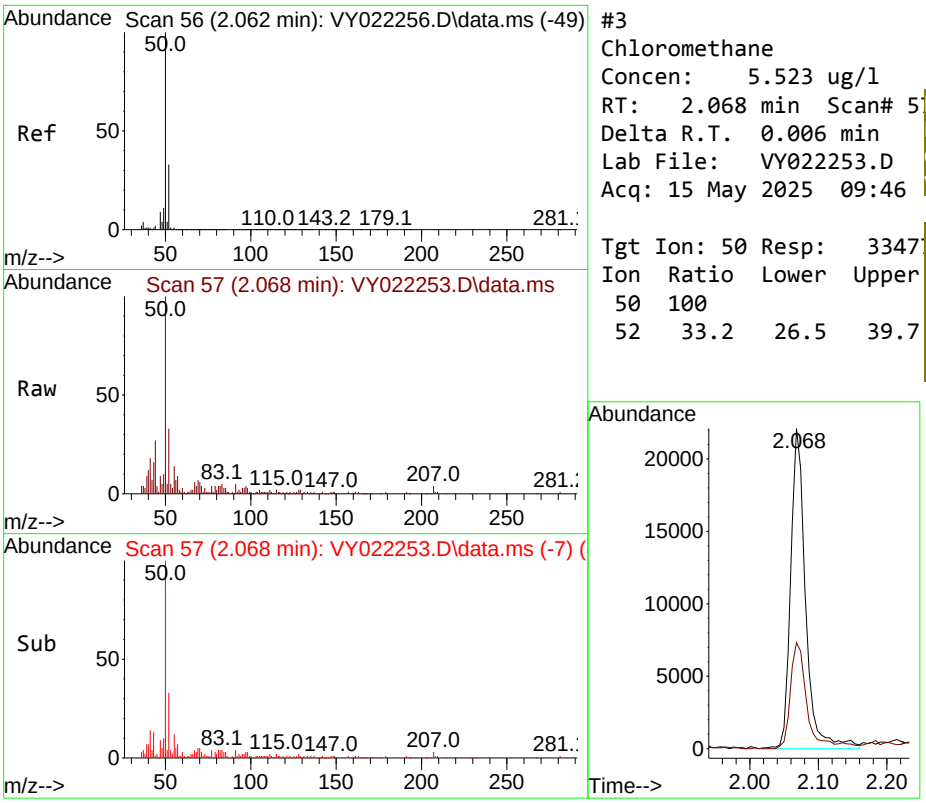


#2
Dichlorodifluoromethane
Concen: 5.230 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 85 Resp: 15071

Ion	Ratio	Lower	Upper
85	100		
87	31.0	16.5	49.5





#3
Chloromethane
Concen: 5.523 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

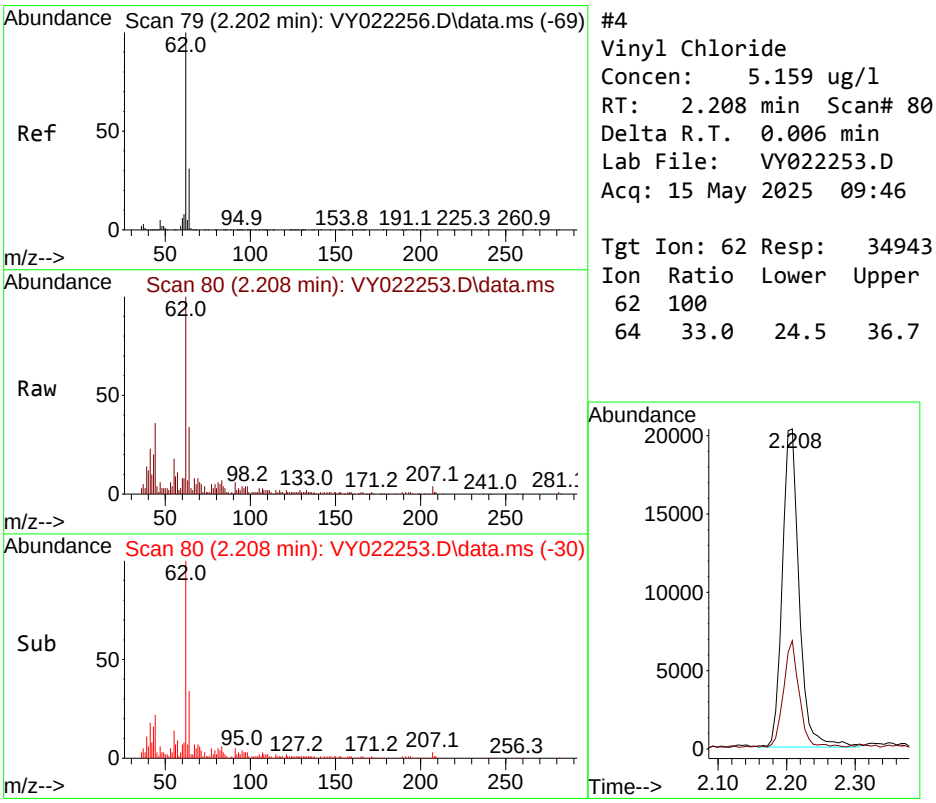
Tgt Ion: 50 Resp: 3347

Ion	Ratio	Lower	Upper
50	100		
52	33.2	26.5	39.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

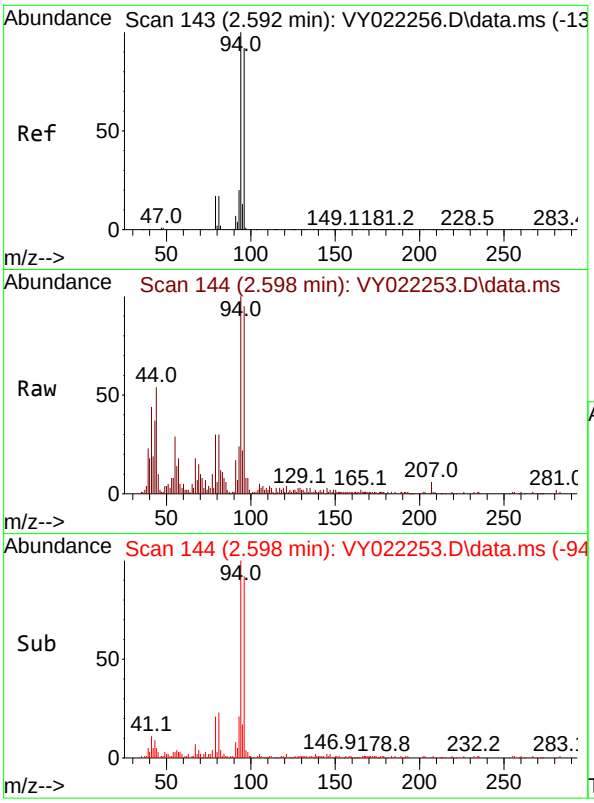
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025



#4
Vinyl Chloride
Concen: 5.159 ug/l
RT: 2.208 min Scan# 80
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 62 Resp: 34943

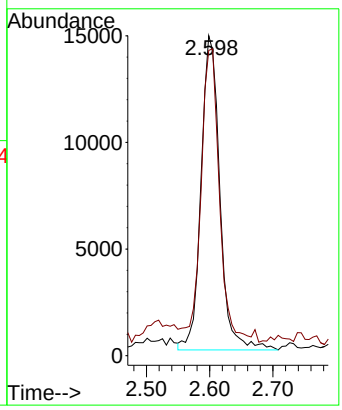
Ion	Ratio	Lower	Upper
62	100		
64	33.0	24.5	36.7



#5
Bromomethane
Concen: 5.543 ug/l
RT: 2.598 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 94 Resp: 3056

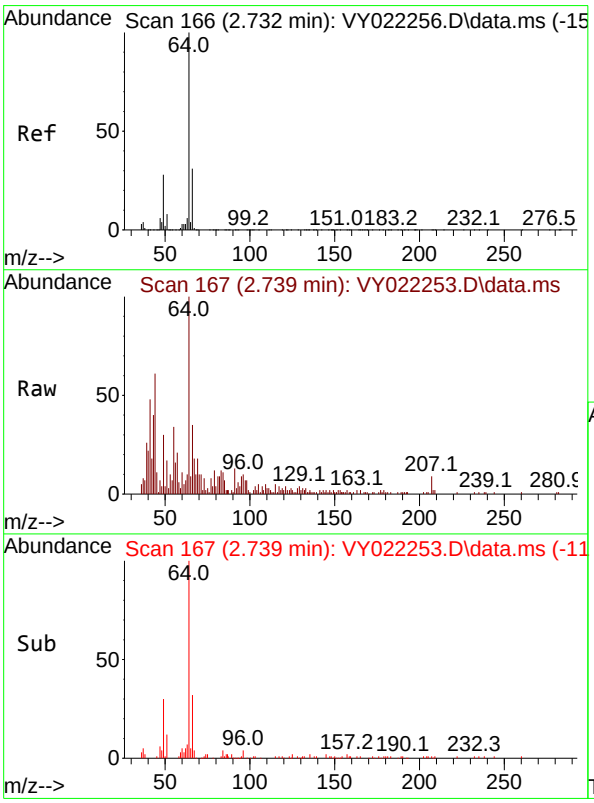
Ion	Ratio	Lower	Upper
94	100		
96	90.7	73.4	110.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

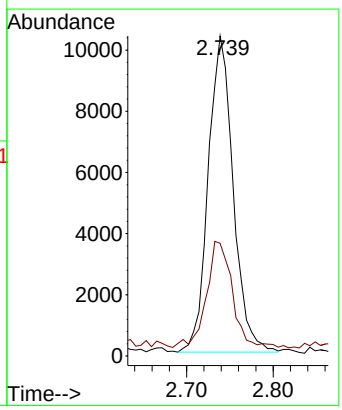
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

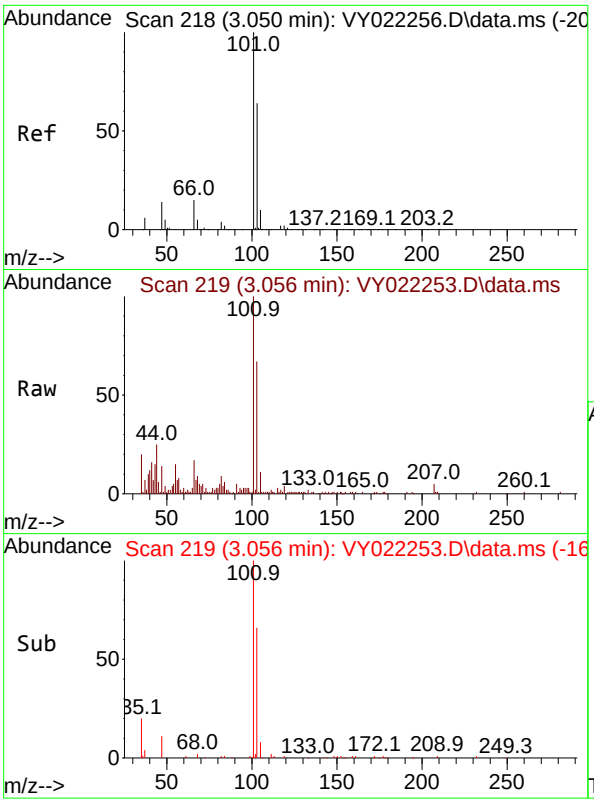


#6
Chloroethane
Concen: 4.923 ug/l
RT: 2.739 min Scan# 167
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 64 Resp: 20741

Ion	Ratio	Lower	Upper
64	100		
66	32.8	24.8	37.2

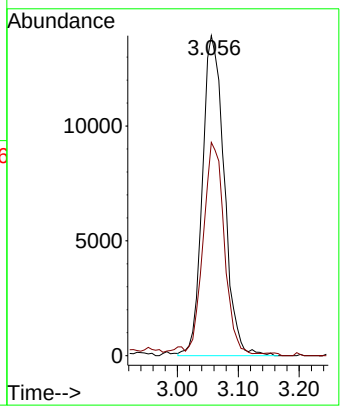




#7
Trichlorofluoromethane
Concen: 5.052 ug/l
RT: 3.056 min Scan# 21
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion:101 Resp: 3464

Ion	Ratio	Lower	Upper
101	100		
103	66.0	51.7	77.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
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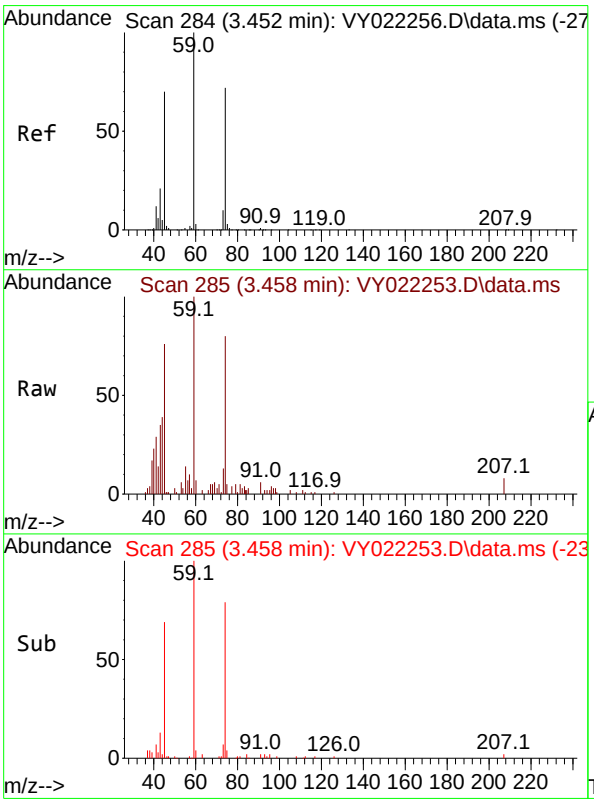
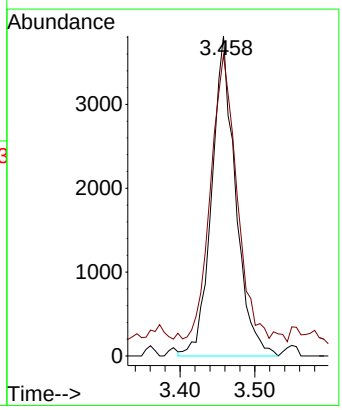
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

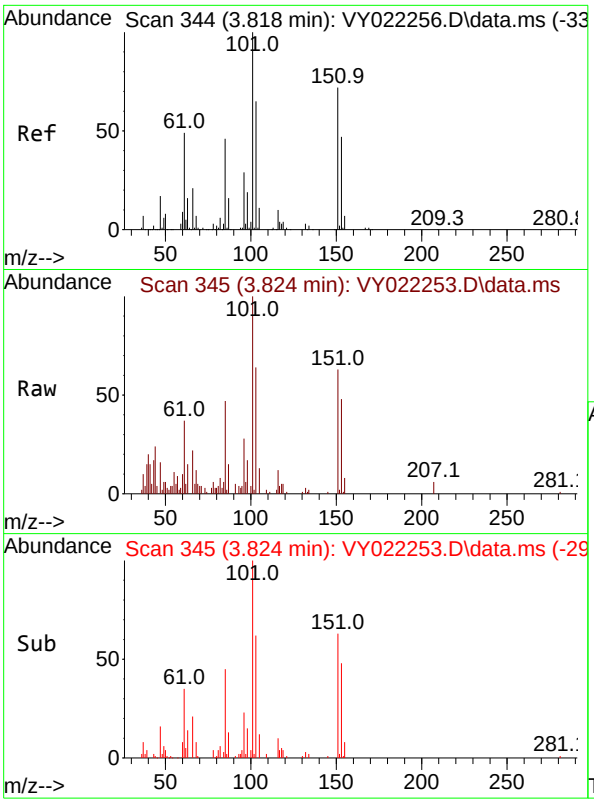


#8
Diethyl Ether
Concen: 5.126 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 74 Resp: 8435

Ion	Ratio	Lower	Upper
74	100		
45	96.3	48.6	145.8





#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.081 ug/l
RT: 3.824 min Scan# 34
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

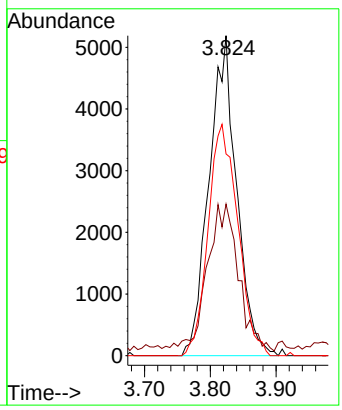
Tgt Ion:101 Resp: 1512

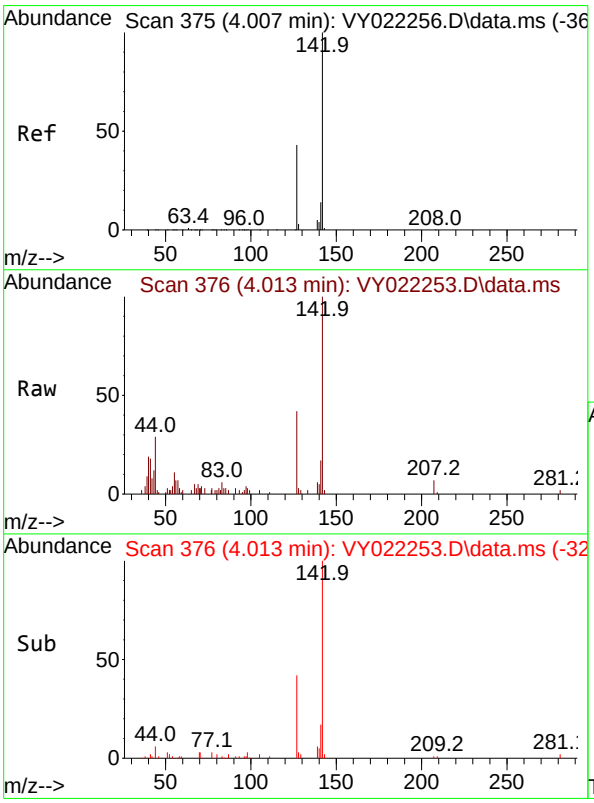
Ion	Ratio	Lower	Upper
101	100		
85	52.5	38.6	58.0
151	78.0	59.7	89.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

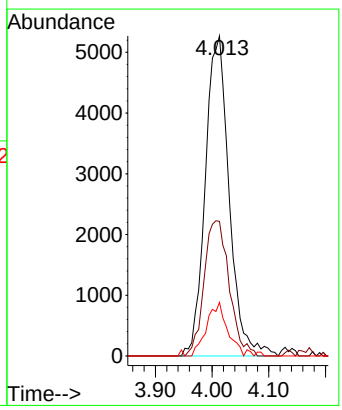


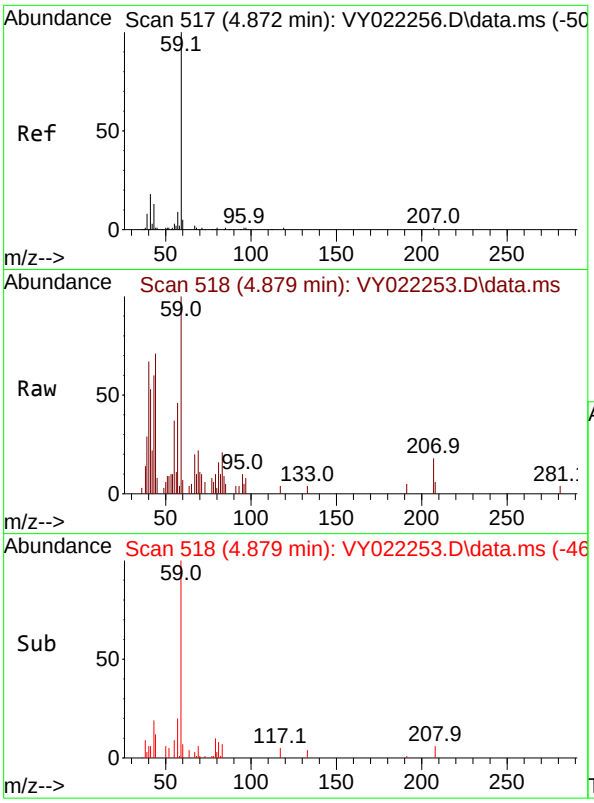


#10
Methyl Iodide
Concen: 4.484 ug/l
RT: 4.013 min Scan# 376
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion:142 Resp: 15449

Ion	Ratio	Lower	Upper
142	100		
127	44.4	35.7	53.5
141	14.4	11.1	16.7

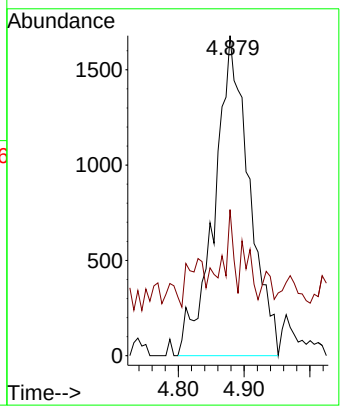




#11
Tert butyl alcohol
Concen: 26.722 ug/l
RT: 4.879 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 59 Resp: 615

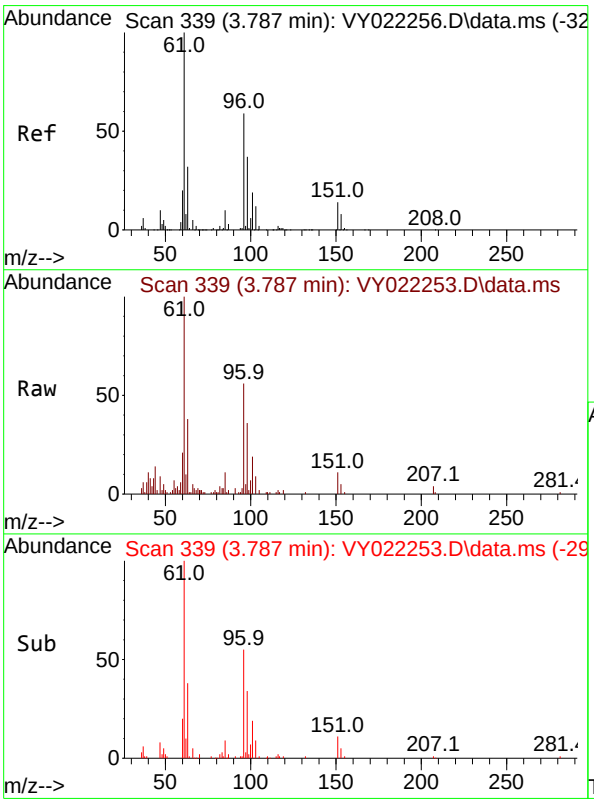
Ion	Ratio	Lower	Upper
59	100		
57	5.4	0.0	0.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

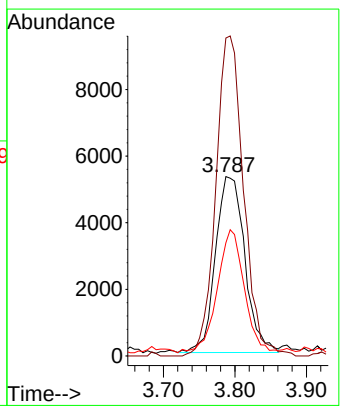
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

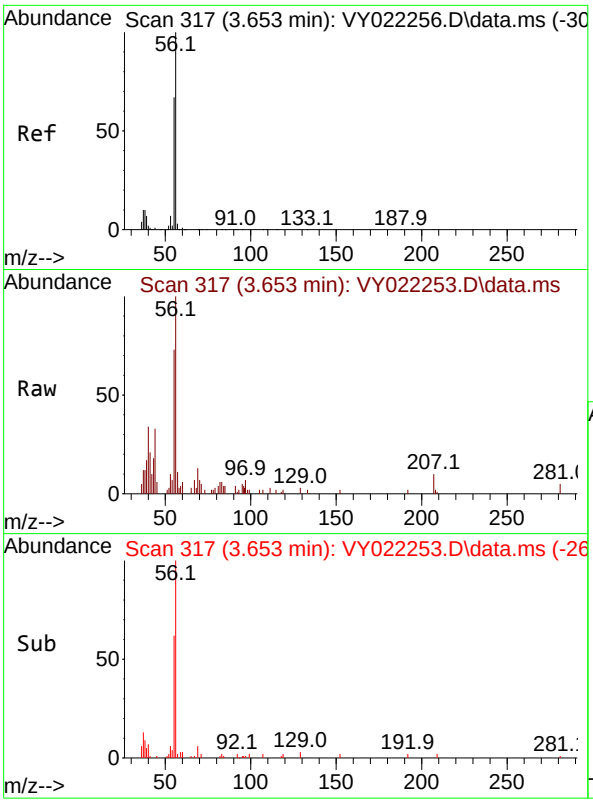


#12
1,1-Dichloroethene
Concen: 5.099 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.000 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 96 Resp: 15064

Ion	Ratio	Lower	Upper
96	100		
61	180.8	134.9	202.3
98	62.6	49.9	74.9

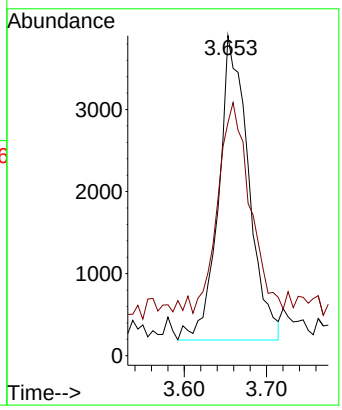




#13
Acrolein
Concen: 27.796 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 56 Resp: 936

Ion	Ratio	Lower	Upper
56	100		
55	74.6	55.6	83.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

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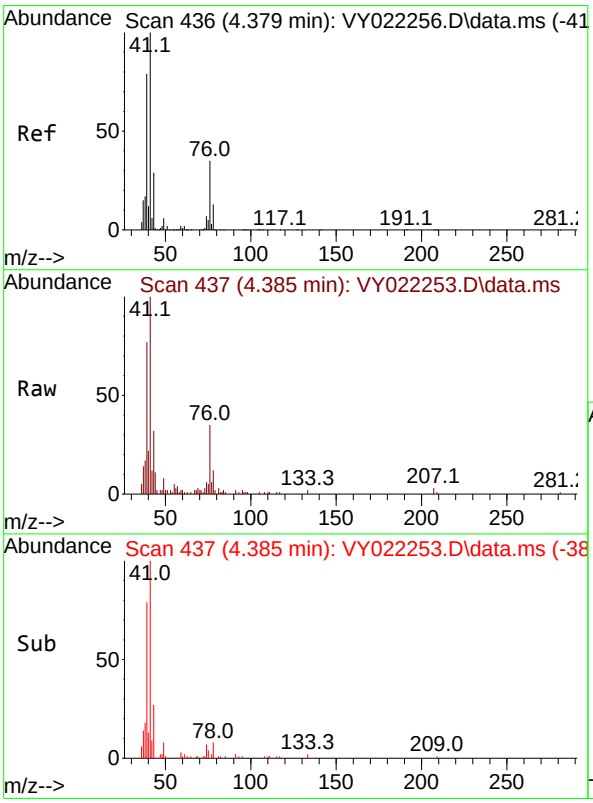
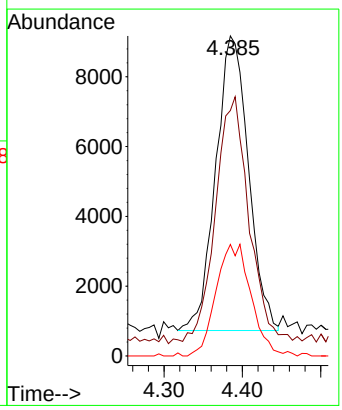
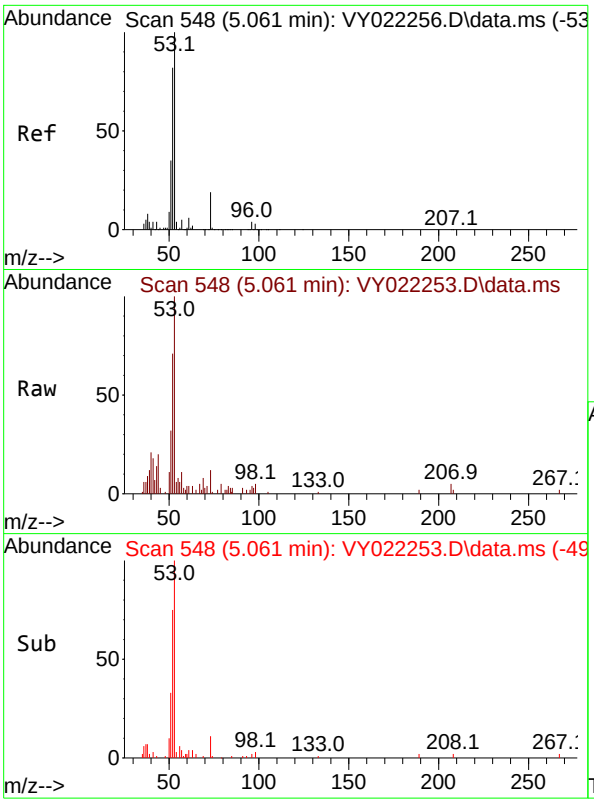


#14
Allyl chloride
Concen: 4.737 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 41 Resp: 24537

Ion	Ratio	Lower	Upper
41	100		
39	83.9	63.4	95.0
76	40.5	29.5	44.3

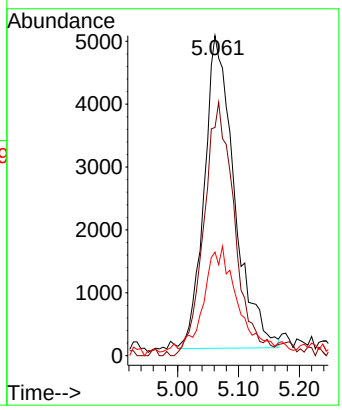




#15
Acrylonitrile
Concen: 25.125 ug/l
RT: 5.061 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 53 Resp: 1703(

Ion	Ratio	Lower	Upper
53	100		
52	82.3	66.1	99.1
51	38.0	30.0	45.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
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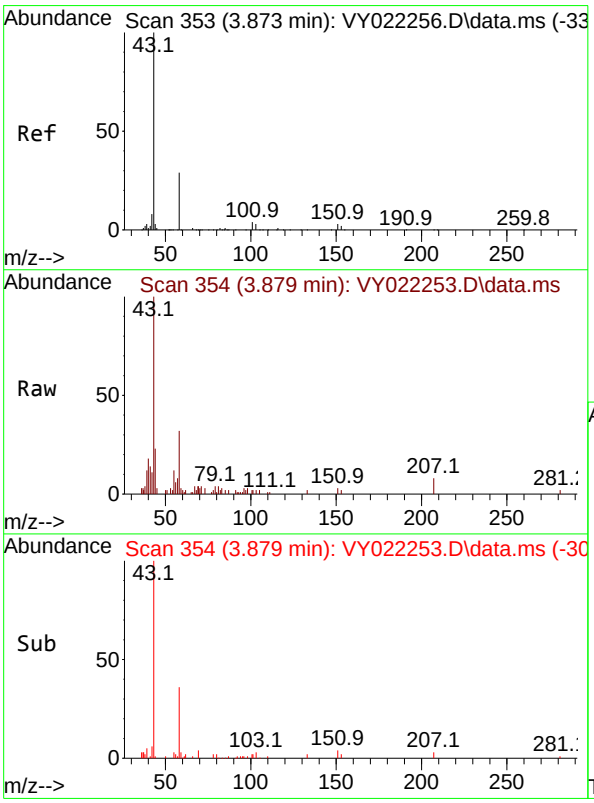
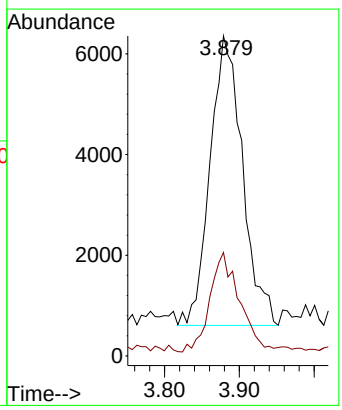
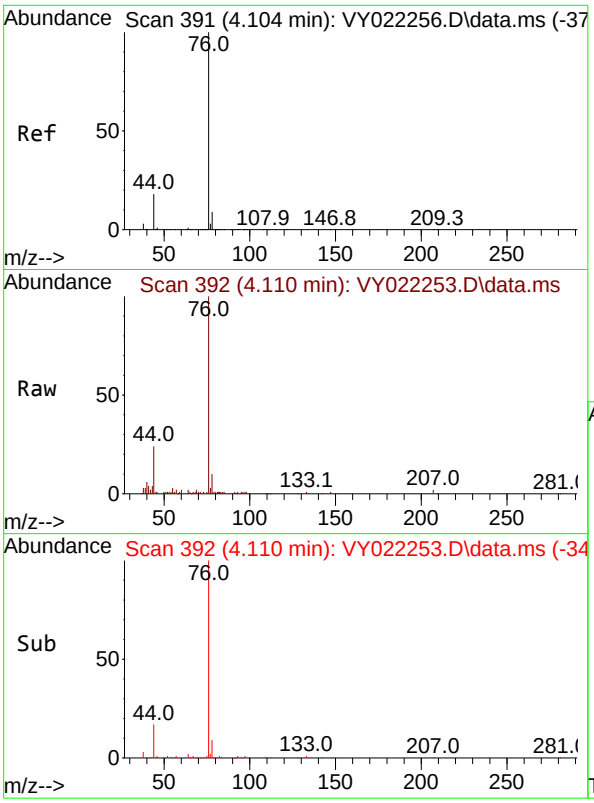


#16
Acetone
Concen: 30.639 ug/l
RT: 3.879 min Scan# 354
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 43 Resp: 17340

Ion	Ratio	Lower	Upper
43	100		
58	34.3	23.6	35.4

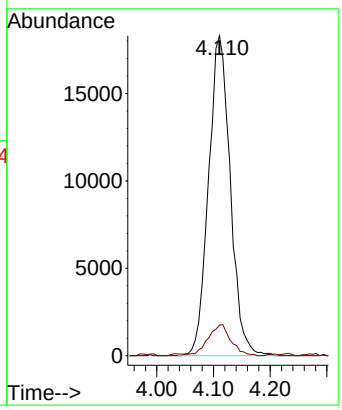




#17
Carbon Disulfide
Concen: 5.068 ug/l
RT: 4.110 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 76 Resp: 4881

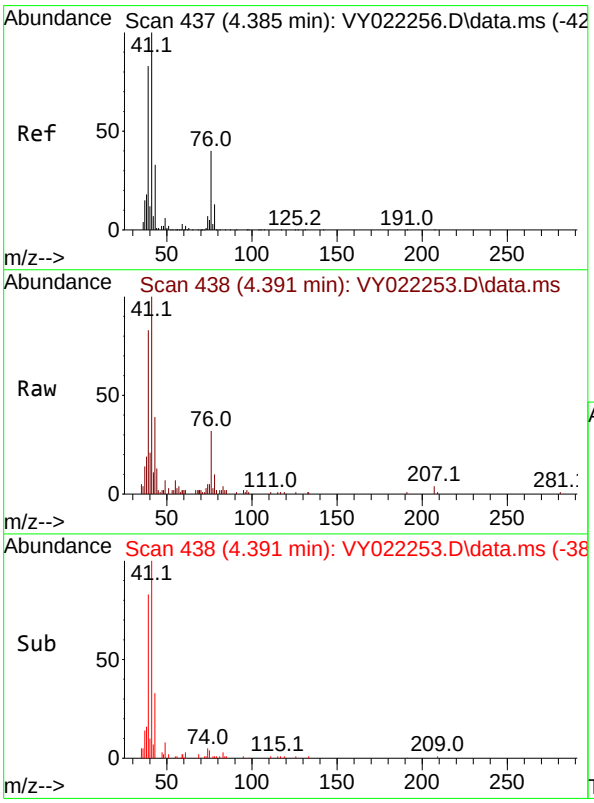
Ion	Ratio	Lower	Upper
76	100		
78	9.3	7.2	10.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

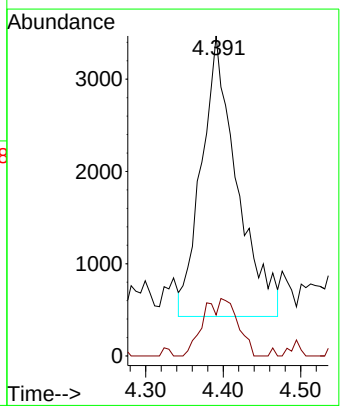
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

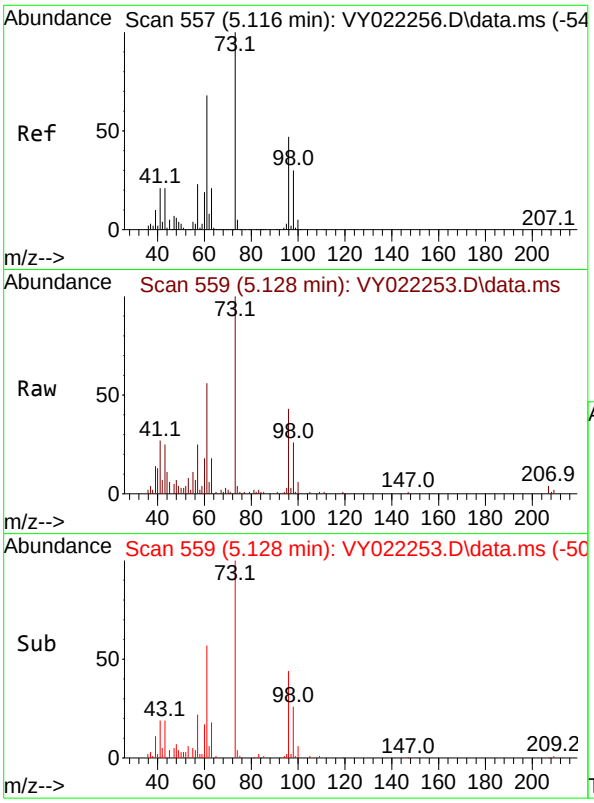


#18
Methyl Acetate
Concen: 5.597 ug/l m
RT: 4.391 min Scan# 438
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 43 Resp: 9639

Ion	Ratio	Lower	Upper
43	100		
74	8.9	18.2	27.4#

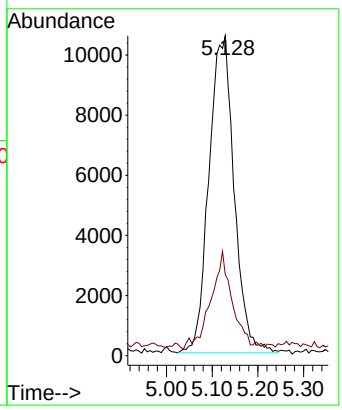




#19
Methyl tert-butyl Ether
Concen: 4.959 ug/l
RT: 5.128 min Scan# 5
Delta R.T. 0.012 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 73 Resp: 4039

Ion	Ratio	Lower	Upper
73	100		
57	22.0	18.6	28.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

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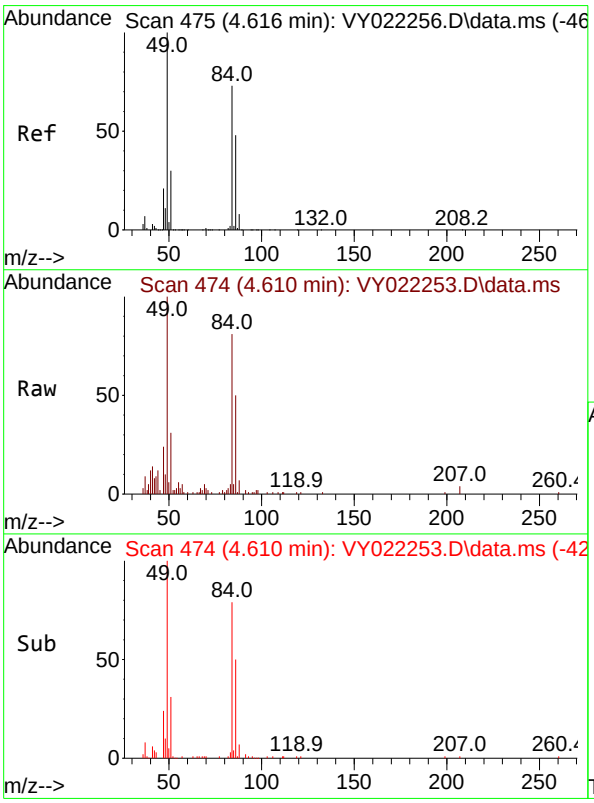
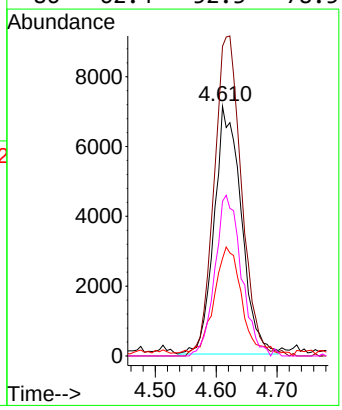
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

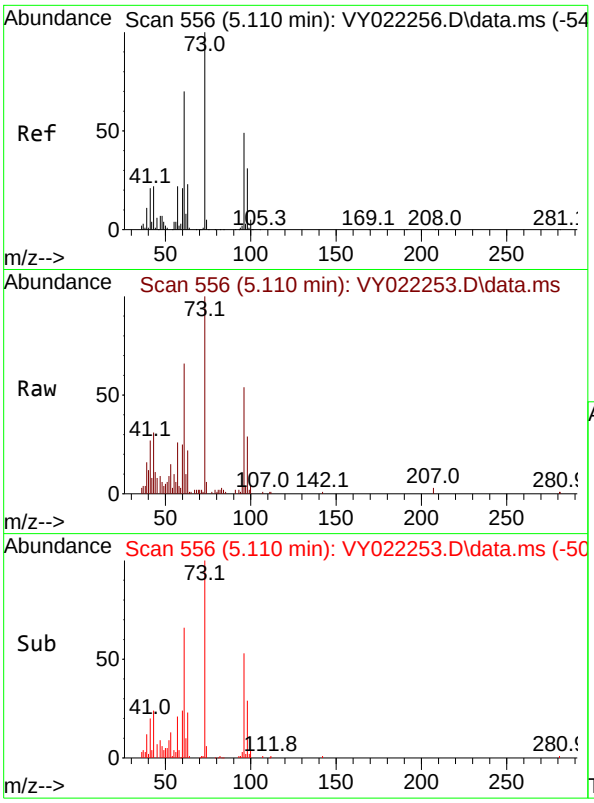


#20
Methylene Chloride
Concen: 6.016 ug/l
RT: 4.610 min Scan# 474
Delta R.T. -0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 84 Resp: 22002

Ion	Ratio	Lower	Upper
84	100		
49	125.0	109.6	164.4
51	38.1	32.4	48.6
86	62.4	52.3	78.5

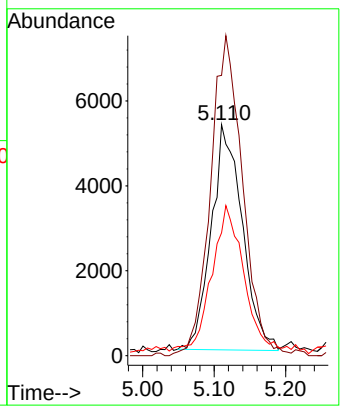




#21
trans-1,2-Dichloroethene
Concen: 4.889 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 96 Resp: 1594

Ion	Ratio	Lower	Upper
96	100		
61	123.1	113.4	170.0
98	51.2	50.9	76.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

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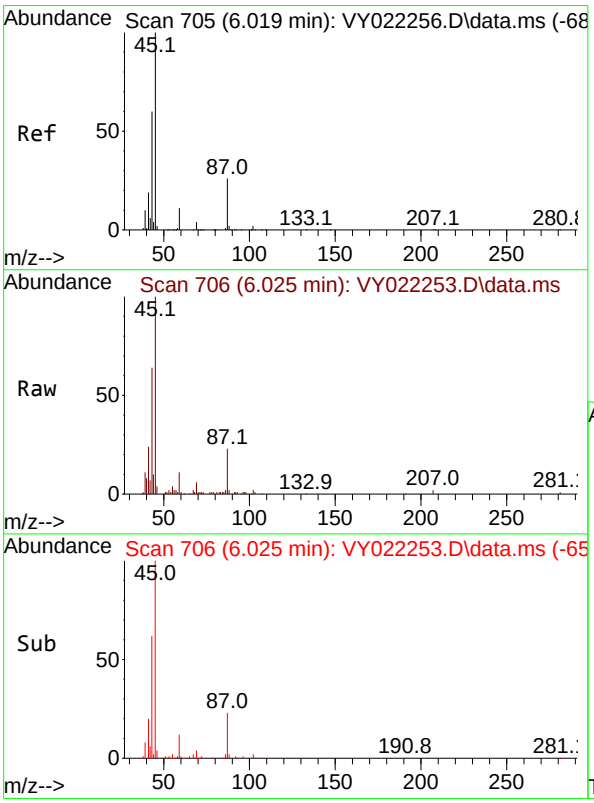
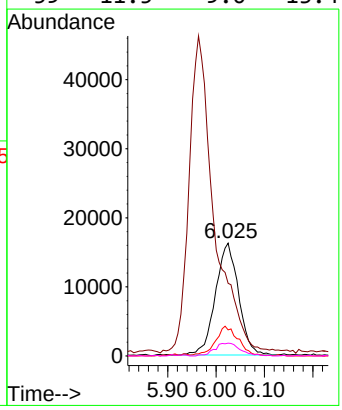
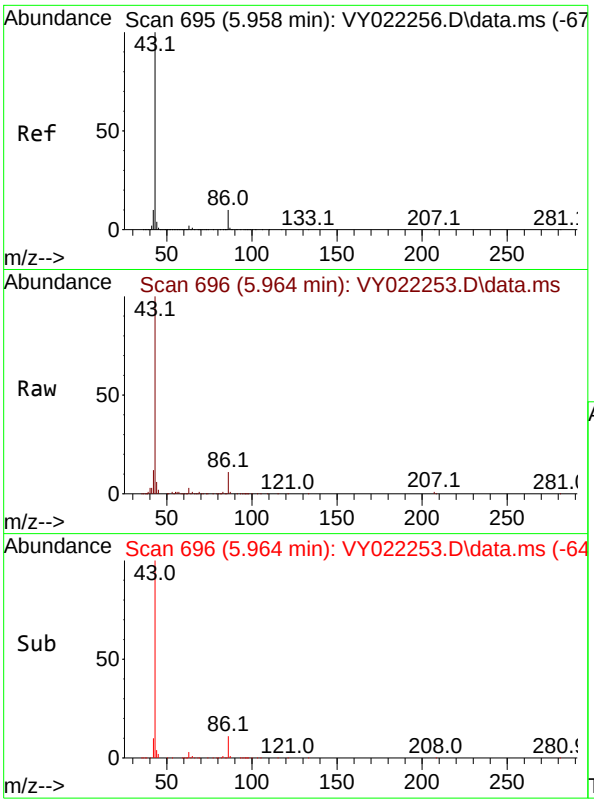


#22
Diisopropyl ether
Concen: 4.915 ug/l
RT: 6.025 min Scan# 706
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 45 Resp: 53760

Ion	Ratio	Lower	Upper
45	100		
43	59.6	48.2	72.2
87	22.4	21.4	32.0
59	11.5	9.0	13.4

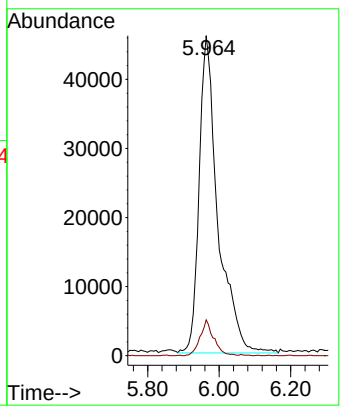




#23
Vinyl Acetate
Concen: 25.361 ug/l
RT: 5.964 min Scan# 6
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 43 Resp: 16759

Ion	Ratio	Lower	Upper
43	100		
86	11.3	7.8	11.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

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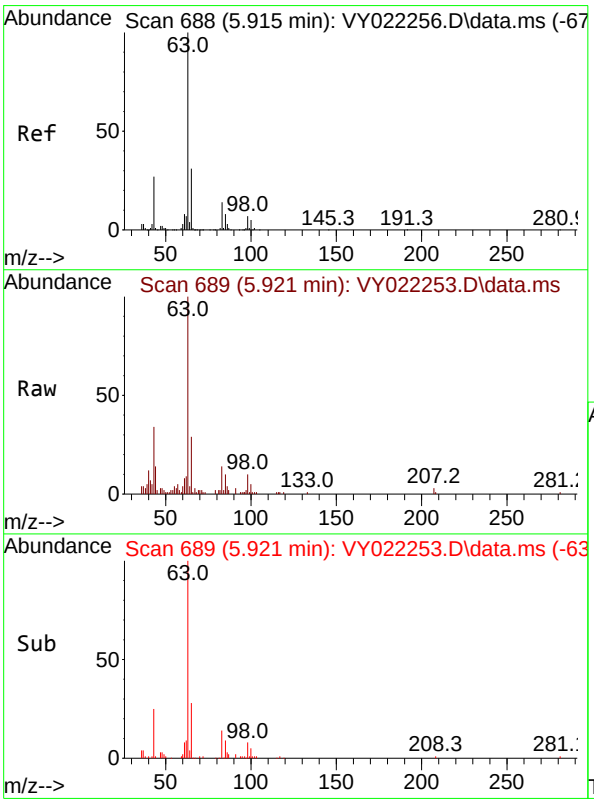
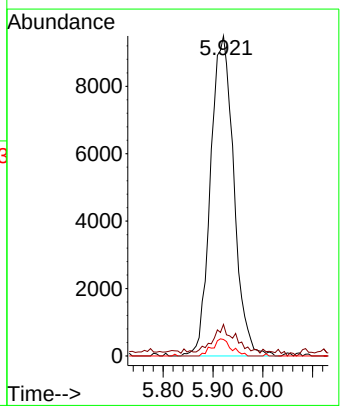
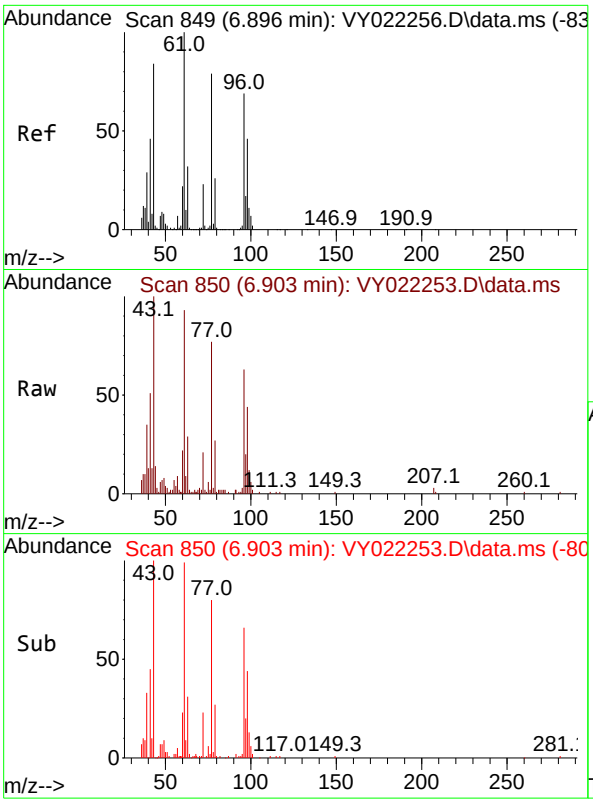


#24
1,1-Dichloroethane
Concen: 5.026 ug/l
RT: 5.921 min Scan# 689
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 63 Resp: 30712

Ion	Ratio	Lower	Upper
63	100		
98	8.3	3.5	10.5
100	5.1	2.4	7.2





#25
2-Butanone
Concen: 26.203 ug/l
RT: 6.903 min Scan# 8
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 43 Resp: 2480

Ion	Ratio	Lower	Upper
43	100		
72	22.7	22.1	33.1

Instrument :
MSVOA_Y
ClientSampleId :
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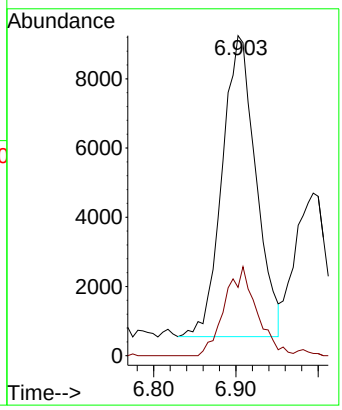
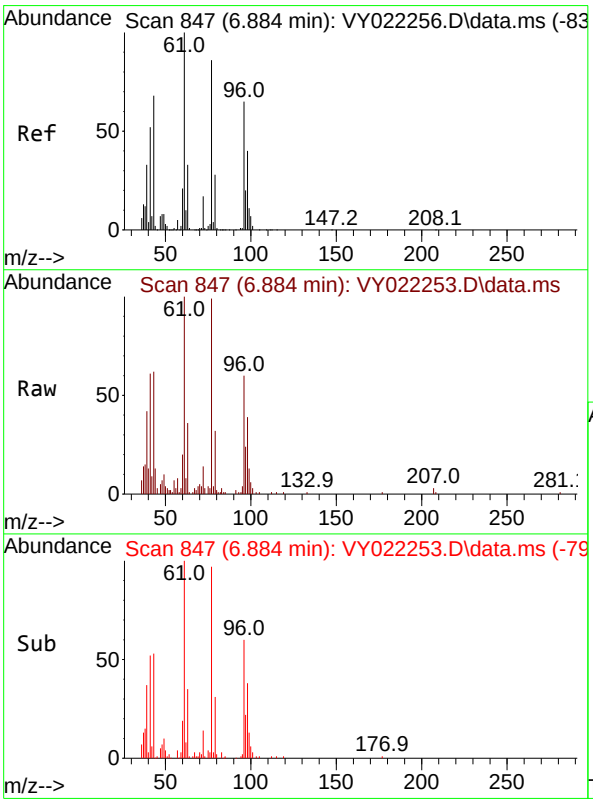
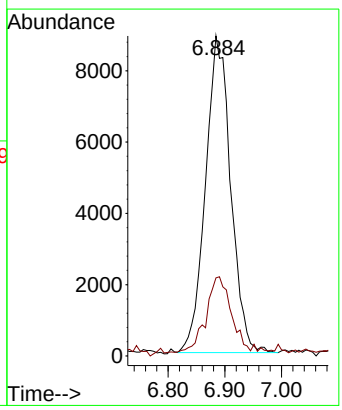


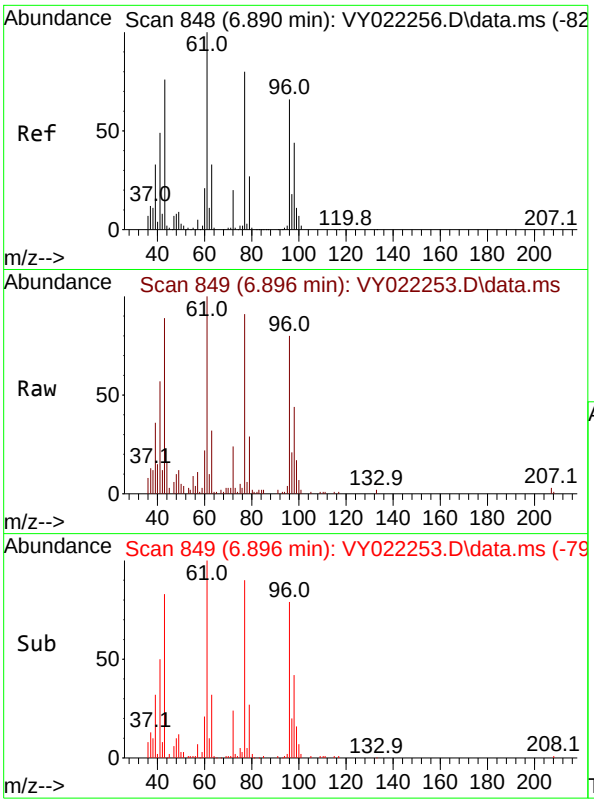


#26
2,2-Dichloropropane
Concen: 5.048 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 77 Resp: 27440

Ion	Ratio	Lower	Upper
77	100		
97	23.9	11.2	33.5

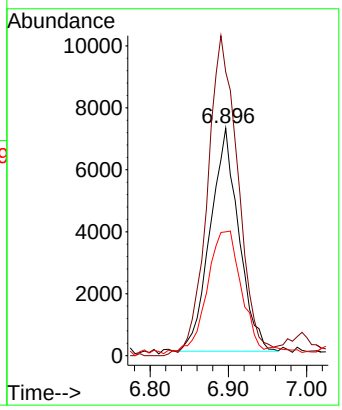




#27
cis-1,2-Dichloroethene
Concen: 4.857 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 96 Resp: 1827

Ion	Ratio	Lower	Upper
96	100		
61	154.3	0.0	302.6
98	66.0	0.0	128.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

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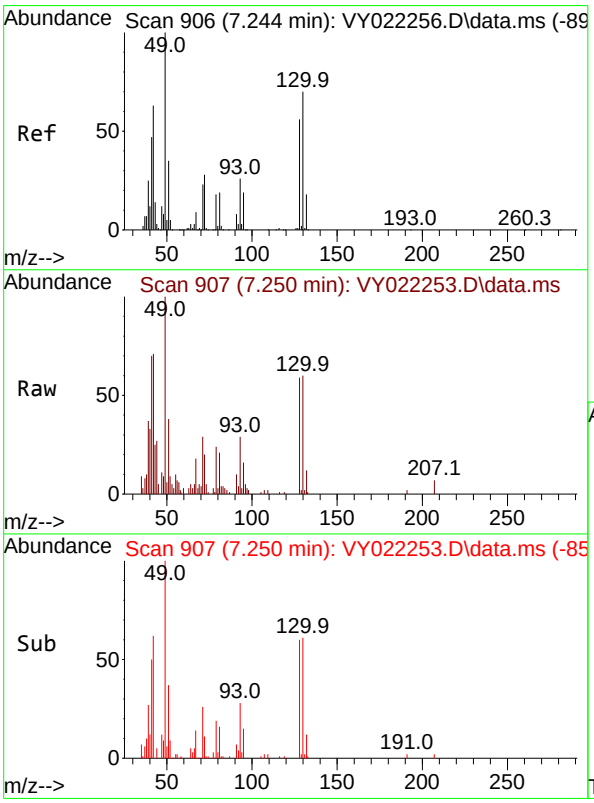
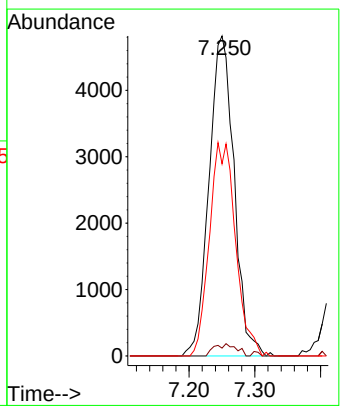
Supervised By :Semsettin Yesilyurt 05/16/2025

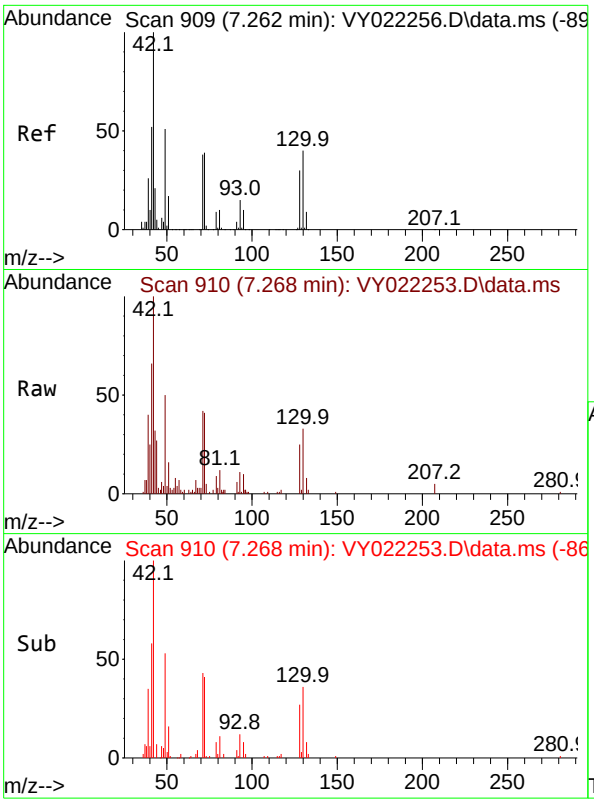


#28
Bromochloromethane
Concen: 4.901 ug/l
RT: 7.250 min Scan# 907
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 49 Resp: 12774

Ion	Ratio	Lower	Upper
49	100		
129	1.4	0.0	3.6
130	69.7	54.7	82.1

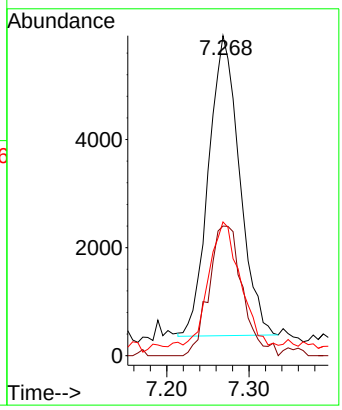




#29
Tetrahydrofuran
Concen: 23.811 ug/l
RT: 7.268 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 42 Resp: 1450

Ion	Ratio	Lower	Upper
42	100		
72	46.7	33.8	50.6
71	43.0	31.5	47.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
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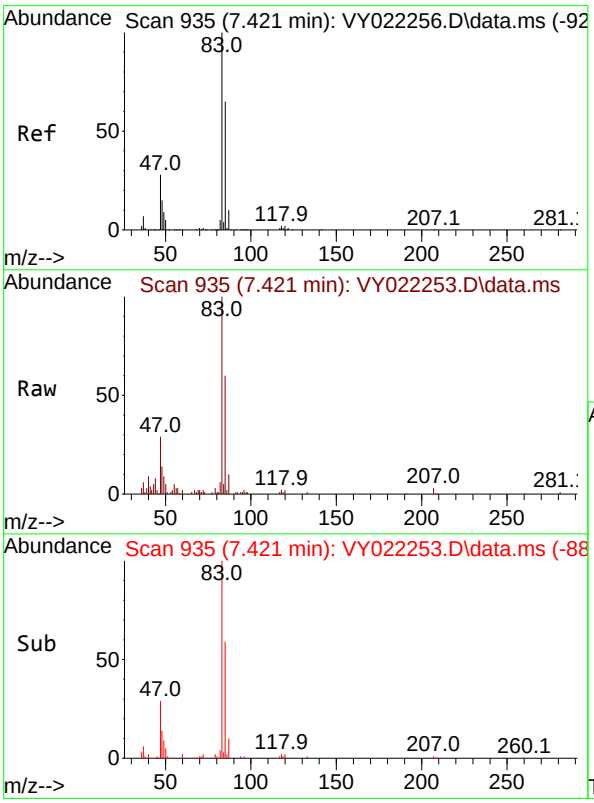
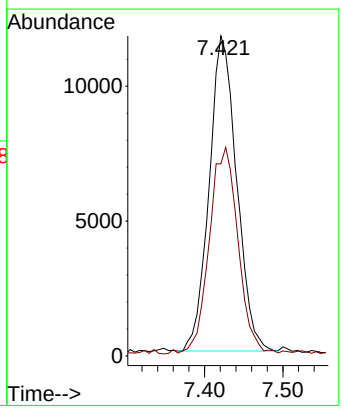
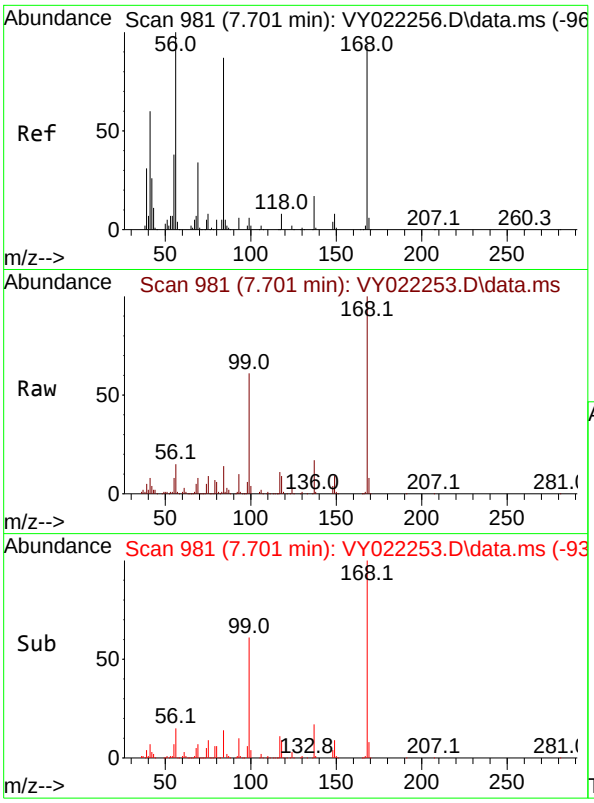


#30
Chloroform
Concen: 4.863 ug/l
RT: 7.421 min Scan# 935
Delta R.T. 0.000 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 83 Resp: 28505

Ion	Ratio	Lower	Upper
83	100		
85	60.1	51.8	77.8





#31
Cyclohexane
Concen: 5.880 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 56 Resp: 3590

Ion	Ratio	Lower	Upper
56	100		
69	48.0	27.4	41.2
84	93.4	70.0	105.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
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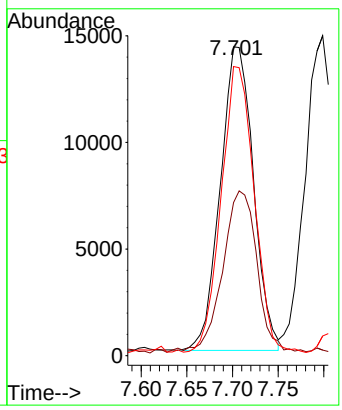
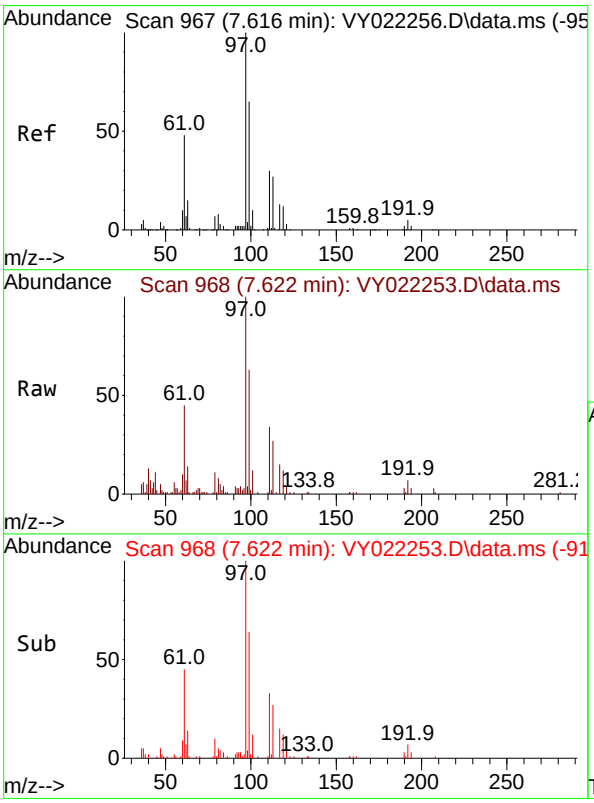
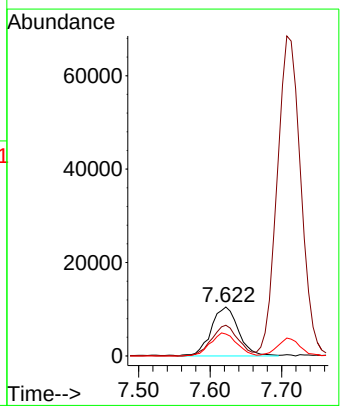


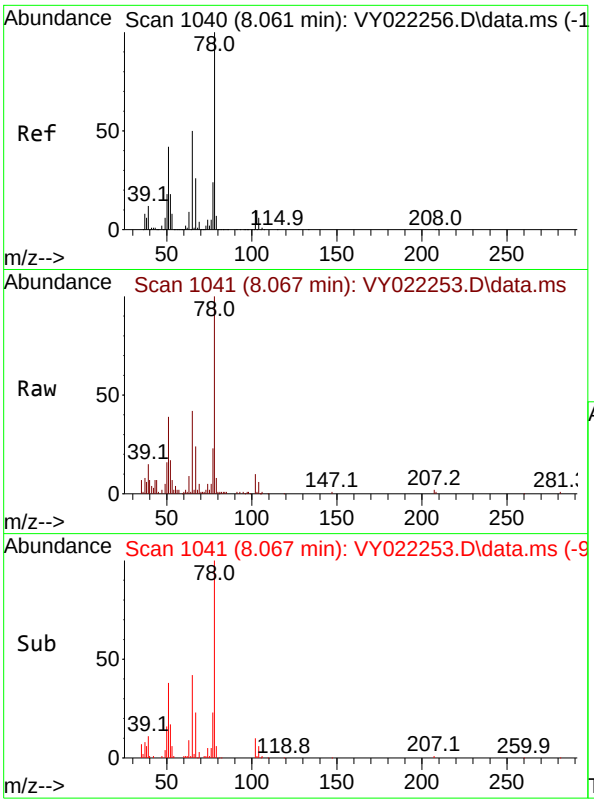


#32
1,1,1-Trichloroethane
Concen: 5.170 ug/l
RT: 7.622 min Scan# 968
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 97 Resp: 27801

Ion	Ratio	Lower	Upper
97	100		
99	60.7	51.4	77.0
61	45.4	38.1	57.1

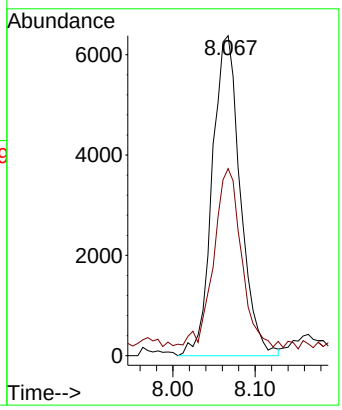




#33
1,2-Dichloroethane-d4
Concen: 5.009 ug/l
RT: 8.067 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 65 Resp: 1511

Ion	Ratio	Lower	Upper
65	100		
67	54.6	0.0	104.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
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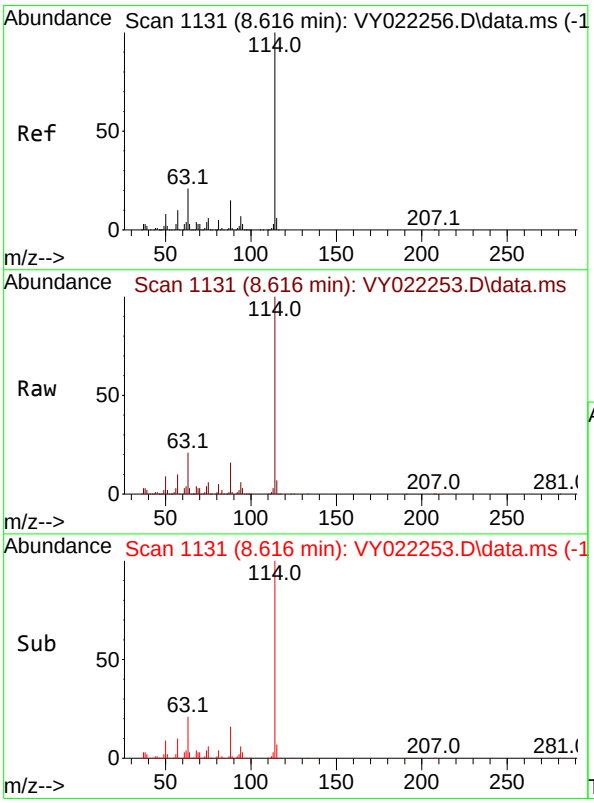
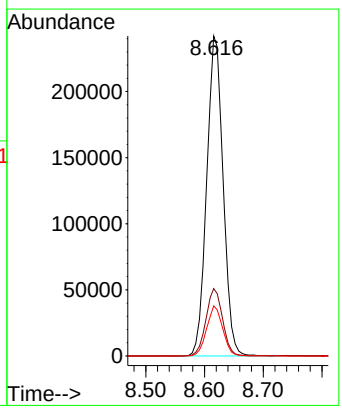
Supervised By :Semsettin Yesilyurt 05/16/2025

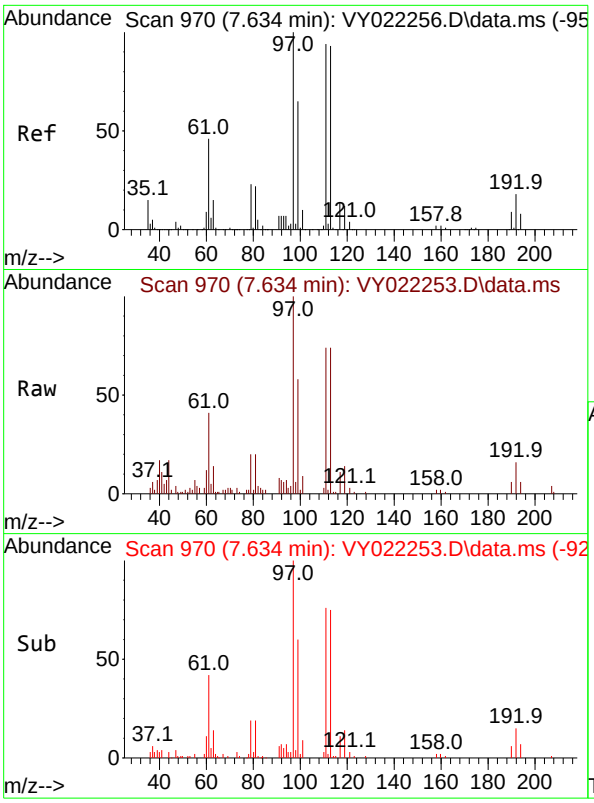


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion:114 Resp: 470488

Ion	Ratio	Lower	Upper
114	100		
63	21.0	0.0	41.0
88	15.7	0.0	29.4

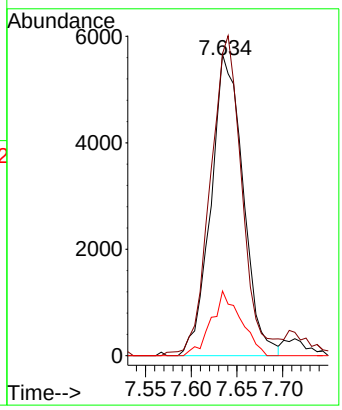




#35
Dibromofluoromethane
Concen: 4.933 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion:113 Resp: 1385

Ion	Ratio	Lower	Upper
113	100		
111	103.5	82.6	123.8
192	19.7	15.2	22.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

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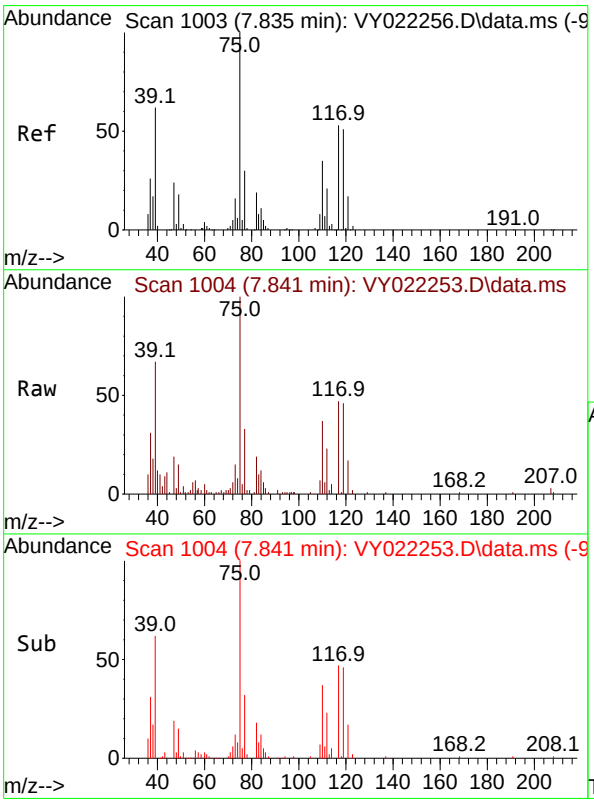
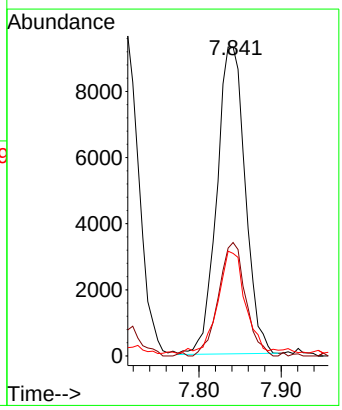
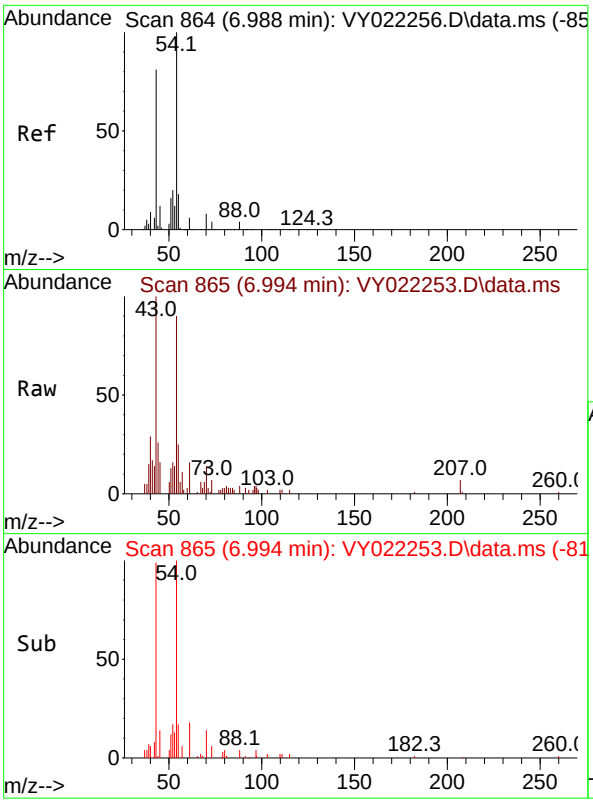


#36
1,1-Dichloropropene
Concen: 4.824 ug/l
RT: 7.841 min Scan# 1004
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 75 Resp: 22314

Ion	Ratio	Lower	Upper
75	100		
110	35.1	16.6	49.8
77	32.4	24.6	37.0





#37
Ethyl Acetate
Concen: 5.352 ug/l
RT: 6.994 min Scan# 8
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 43 Resp: 1191

Ion	Ratio	Lower	Upper
43	100		
61	15.1	10.2	15.2
70	9.6	7.6	11.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
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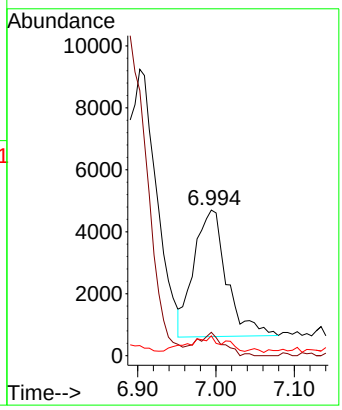
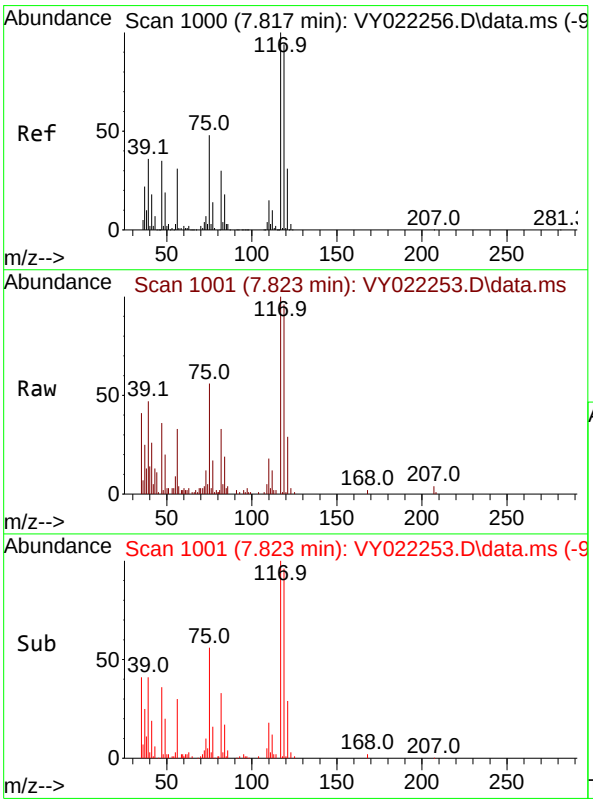
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

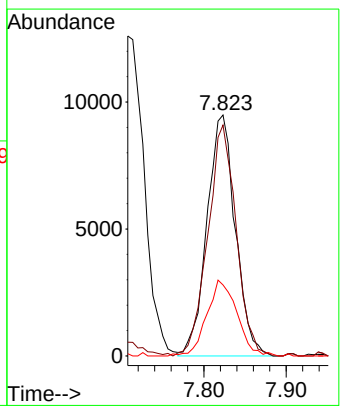


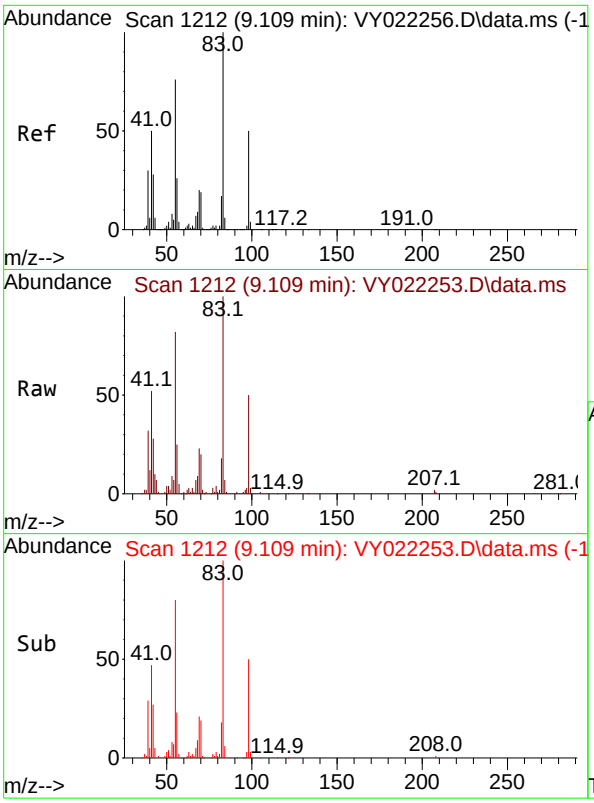


#38
Carbon Tetrachloride
Concen: 4.768 ug/l
RT: 7.823 min Scan# 1001
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion:117 Resp: 22826

Ion	Ratio	Lower	Upper
117	100		
119	95.8	75.3	112.9
121	29.5	24.7	37.1





#39
Methylcyclohexane
Concen: 5.024 ug/l
RT: 9.109 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 83 Resp: 3121

Ion	Ratio	Lower	Upper
83	100		
55	78.9	60.6	90.8
98	49.6	40.0	60.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
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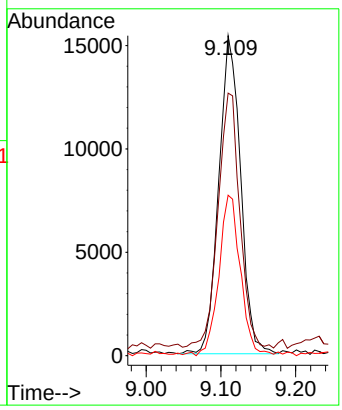
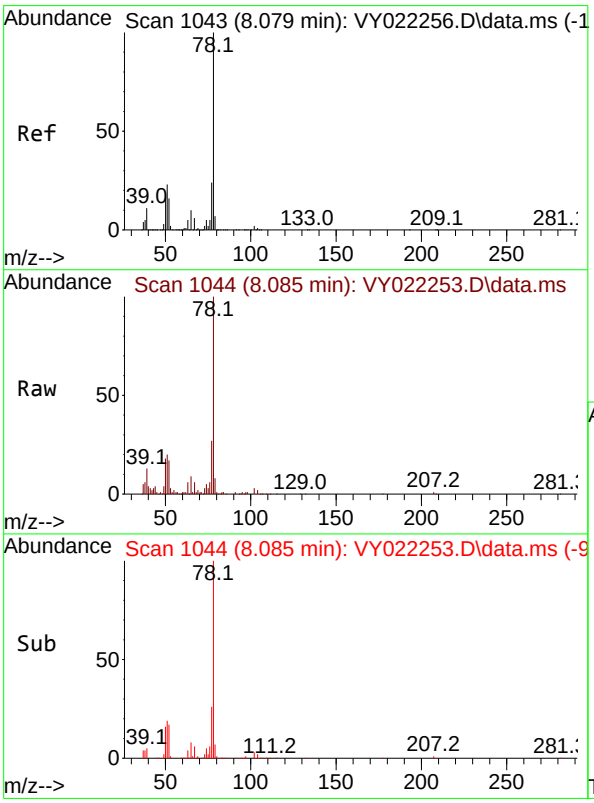
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

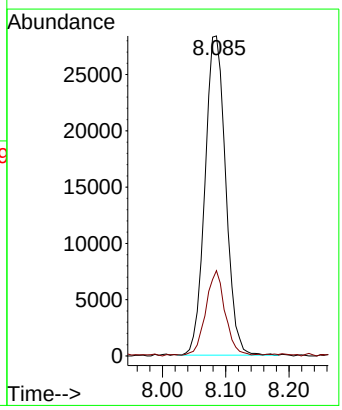


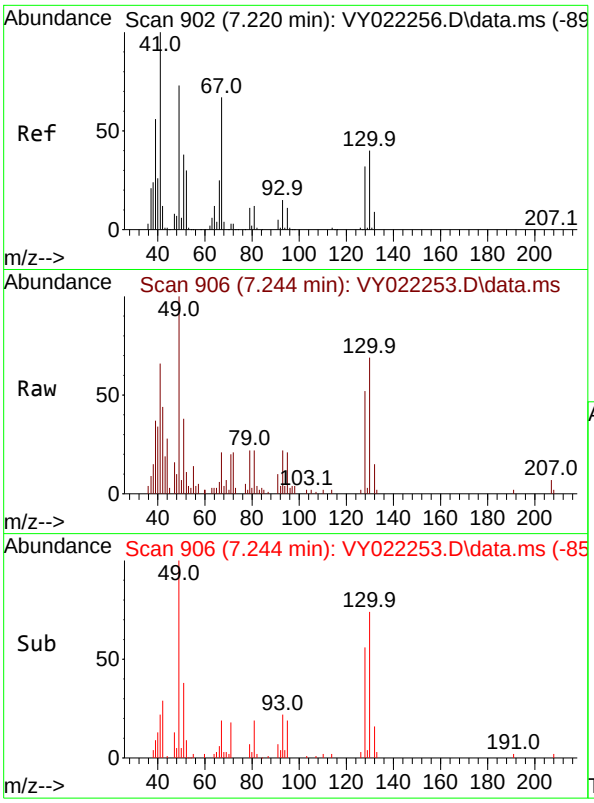


#40
Benzene
Concen: 4.699 ug/l
RT: 8.085 min Scan# 1044
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 78 Resp: 64430

Ion	Ratio	Lower	Upper
78	100		
77	26.4	18.9	28.3

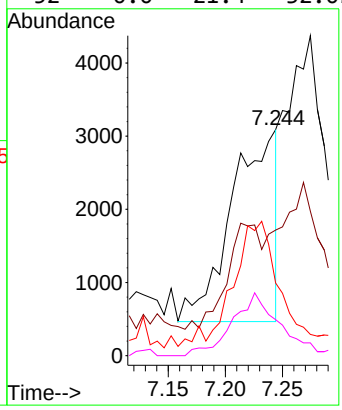




#41
Methacrylonitrile
Concen: 4.422 ug/l m
RT: 7.244 min Scan# 9
Delta R.T. 0.024 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 41 Resp: 720

Ion	Ratio	Lower	Upper
41	100		
39	63.3	39.1	58.7#
67	0.0	47.1	70.7#
52	0.0	21.4	32.0#



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

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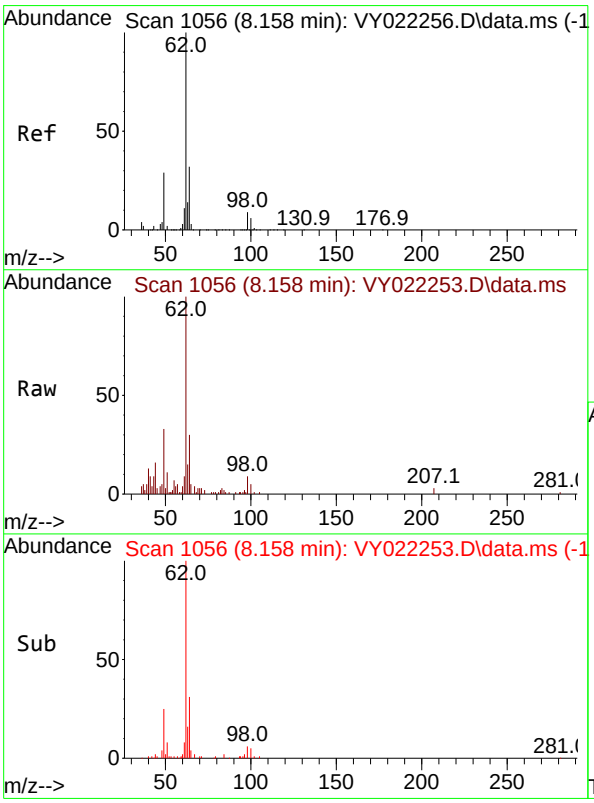
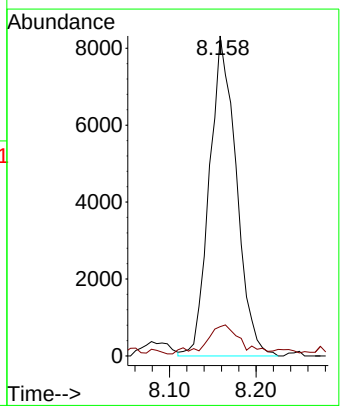
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

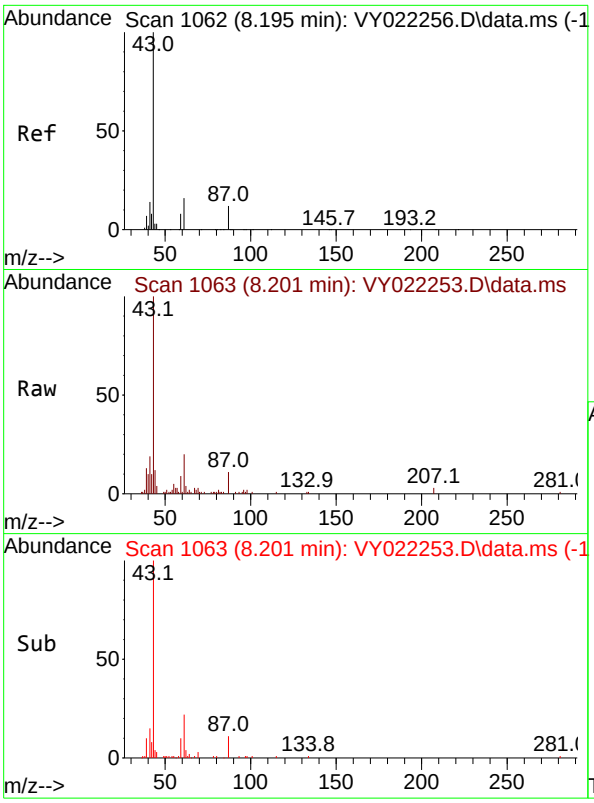


#42
1,2-Dichloroethane
Concen: 4.837 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 62 Resp: 17934

Ion	Ratio	Lower	Upper
62	100		
98	10.1	0.0	18.4

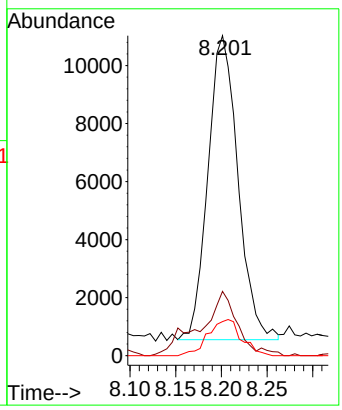




#43
Isopropyl Acetate
Concen: 4.941 ug/l
RT: 8.201 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 43 Resp: 2397

Ion	Ratio	Lower	Upper
43	100		
61	18.7	15.1	22.7
87	13.2	9.7	14.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

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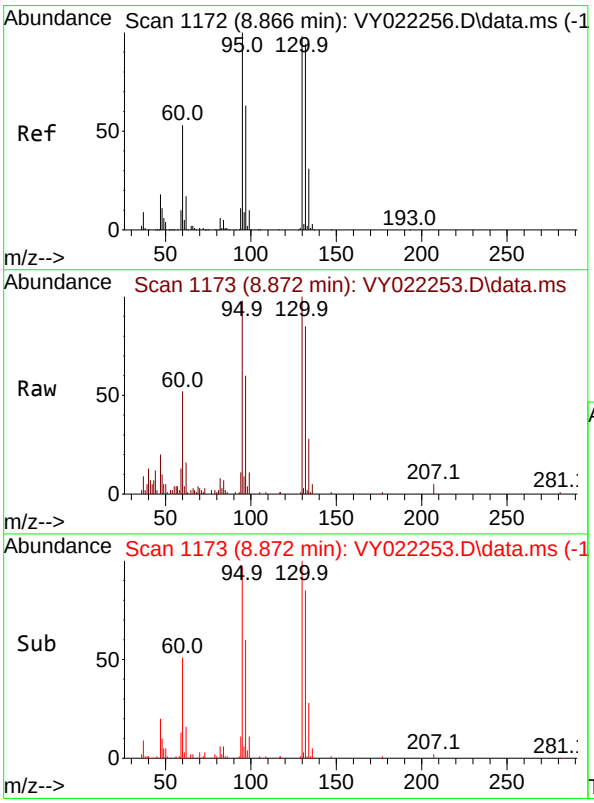
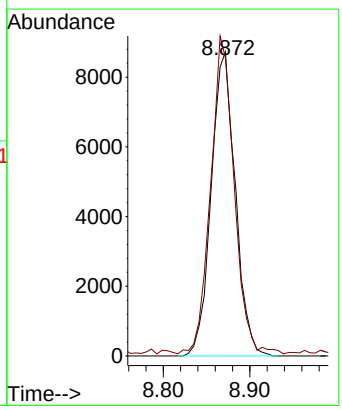
Supervised By :Semsettin Yesilyurt 05/16/2025

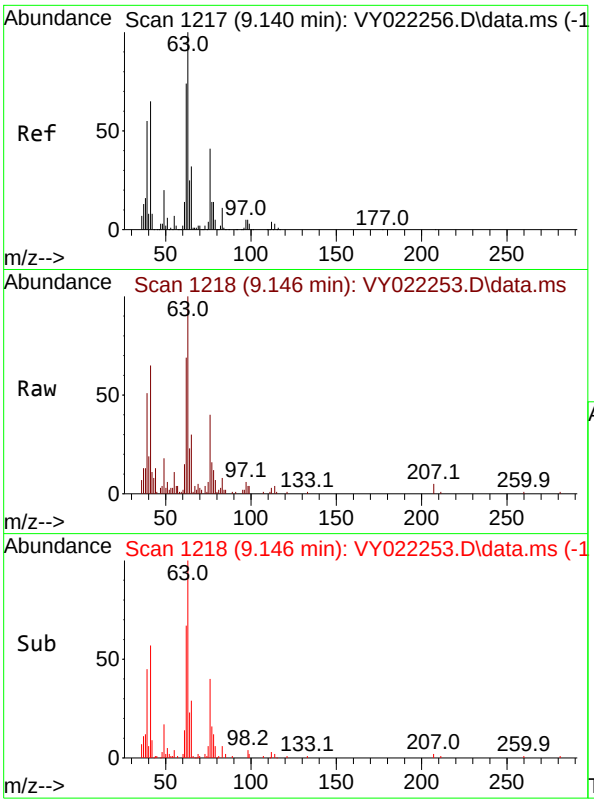


#44
Trichloroethene
Concen: 4.943 ug/l
RT: 8.872 min Scan# 1173
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion:130 Resp: 16852

Ion	Ratio	Lower	Upper
130	100		
95	97.3	0.0	204.8

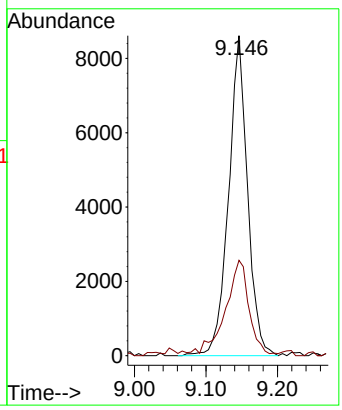




#45
1,2-Dichloropropane
Concen: 4.796 ug/l
RT: 9.146 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 63 Resp: 1585

Ion	Ratio	Lower	Upper
63	100		
65	29.1	25.7	38.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

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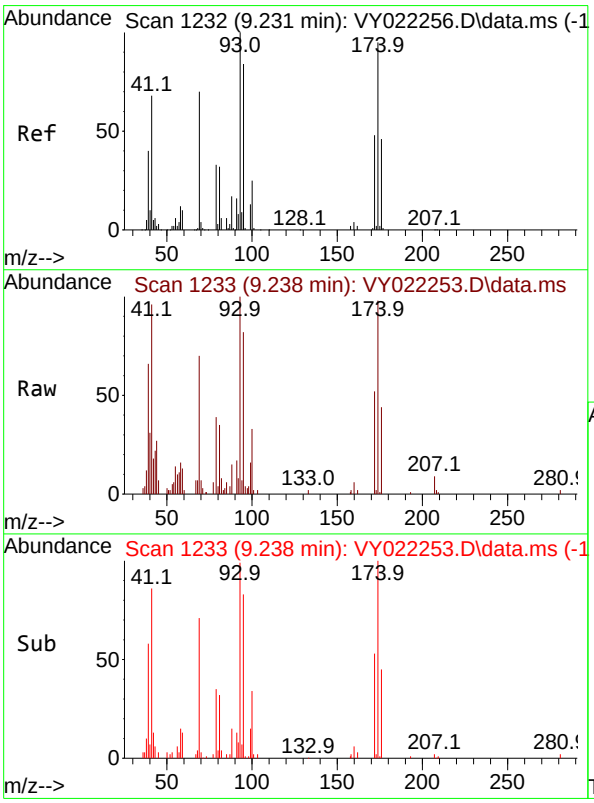
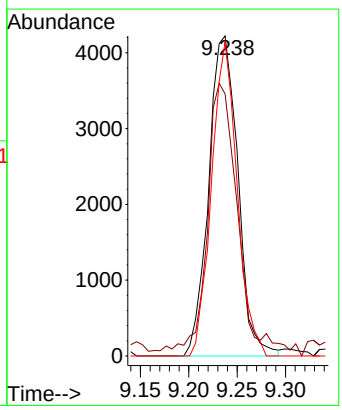
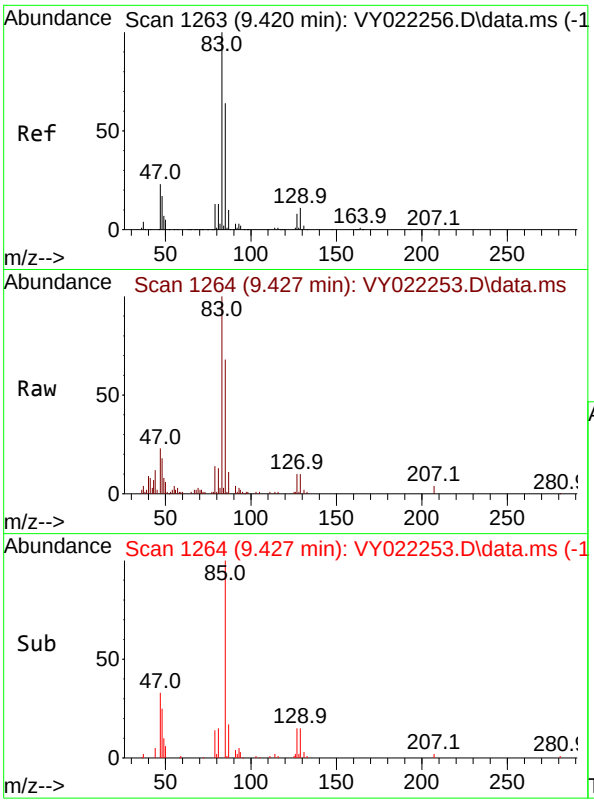


#46
Dibromomethane
Concen: 4.980 ug/l
RT: 9.238 min Scan# 1233
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 93 Resp: 8879

Ion	Ratio	Lower	Upper
93	100		
95	89.8	65.2	97.8
174	85.7	74.3	111.5

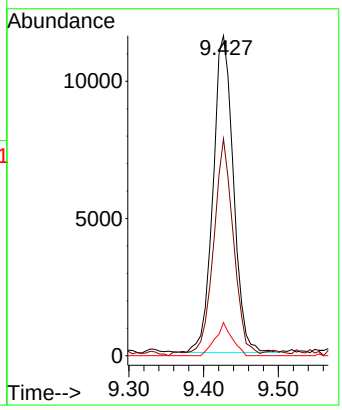




#47
Bromodichloromethane
Concen: 4.736 ug/l
RT: 9.427 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 83 Resp: 2190

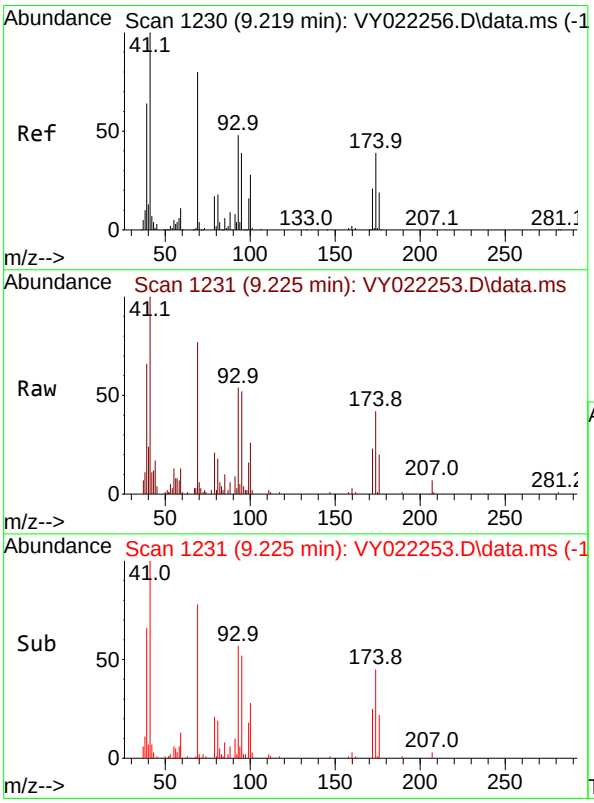
Ion	Ratio	Lower	Upper
83	100		
85	67.3	51.1	76.7
127	10.4	6.6	10.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

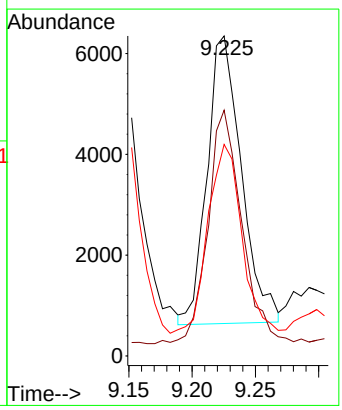
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

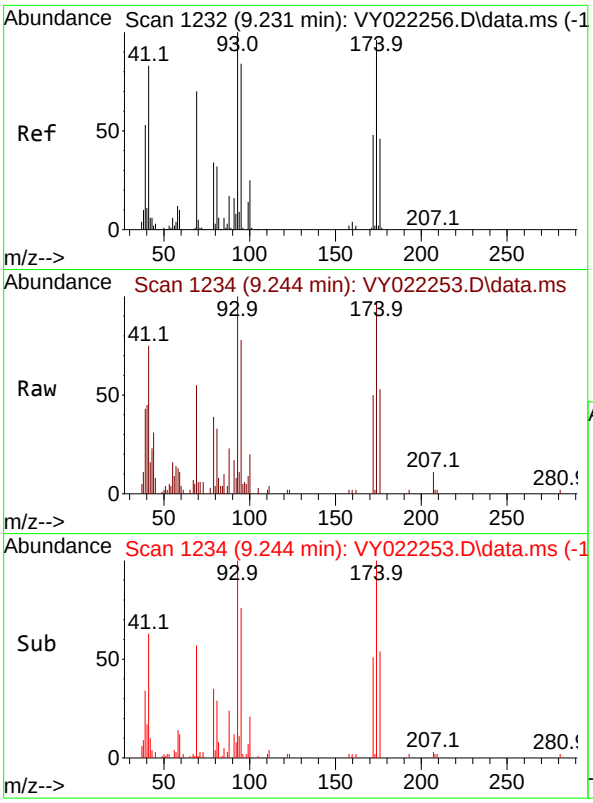


#48
Methyl methacrylate
Concen: 4.727 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 41 Resp: 10729

Ion	Ratio	Lower	Upper
41	100		
69	80.7	63.5	95.3
39	66.0	50.8	76.2

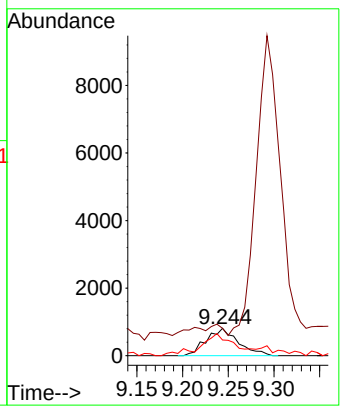




#49
1,4-Dioxane
Concen: 97.404 ug/l
RT: 9.244 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 88 Resp: 196

Ion	Ratio	Lower	Upper
88	100		
43	0.0	28.5	42.7#
58	79.8	61.4	92.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
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Reviewed By :Mahesh Dadoda 05/16/2025
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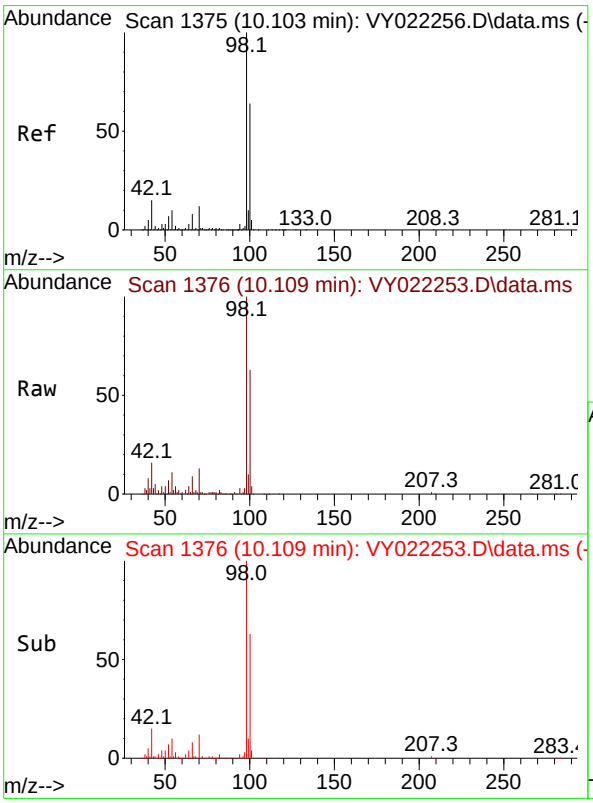
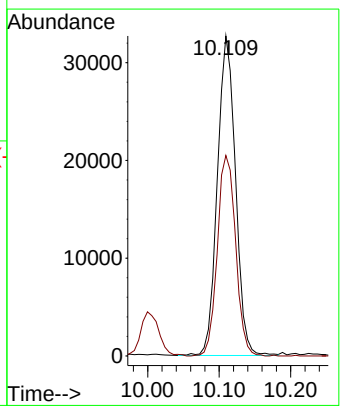
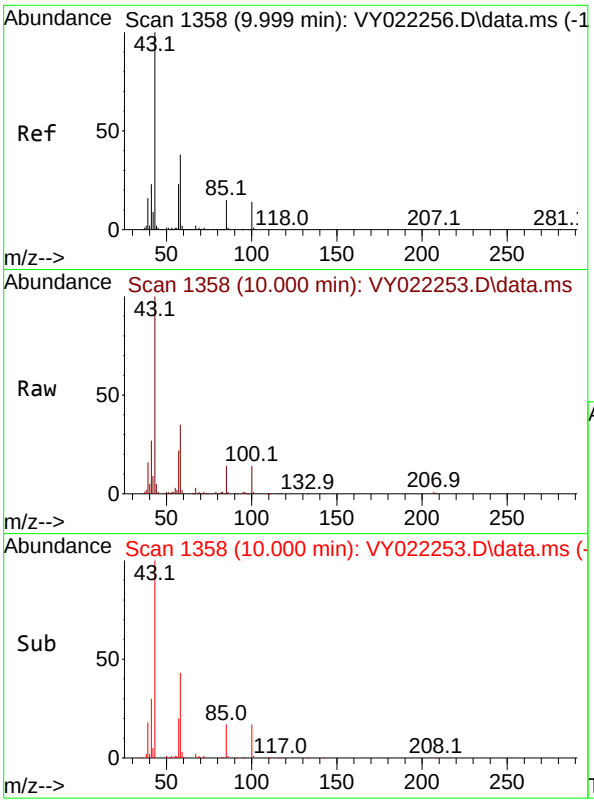


#50
Toluene-d8
Concen: 5.006 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 98 Resp: 57575

Ion	Ratio	Lower	Upper
98	100		
100	63.2	51.8	77.8

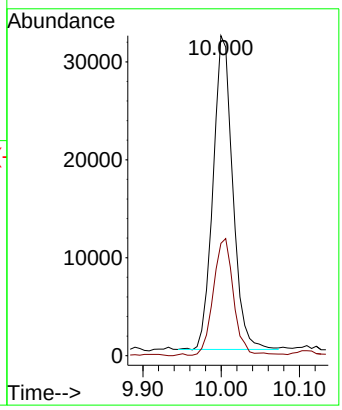




#51
4-Methyl-2-Pentanone
Concen: 23.464 ug/l
RT: 10.000 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 43 Resp: 5588

Ion	Ratio	Lower	Upper
43	100		
58	38.3	29.4	44.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

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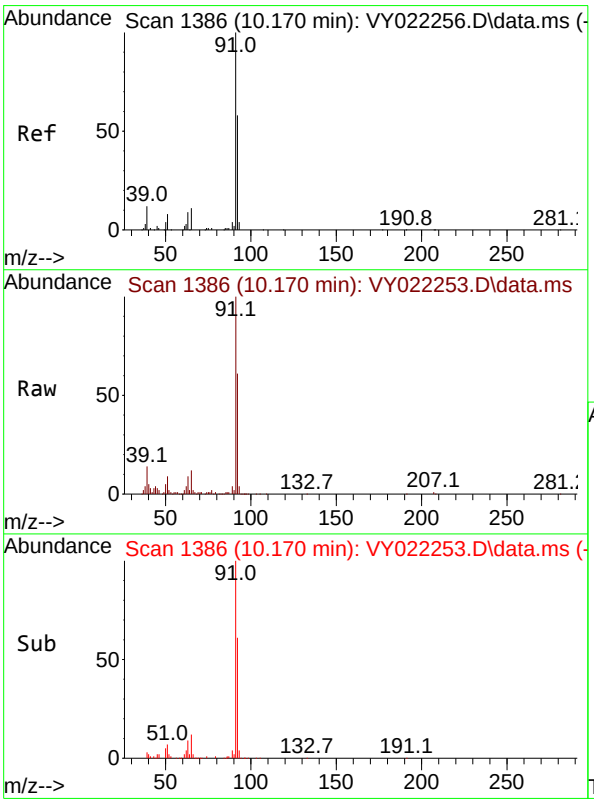
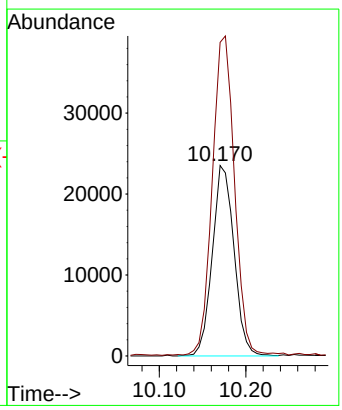
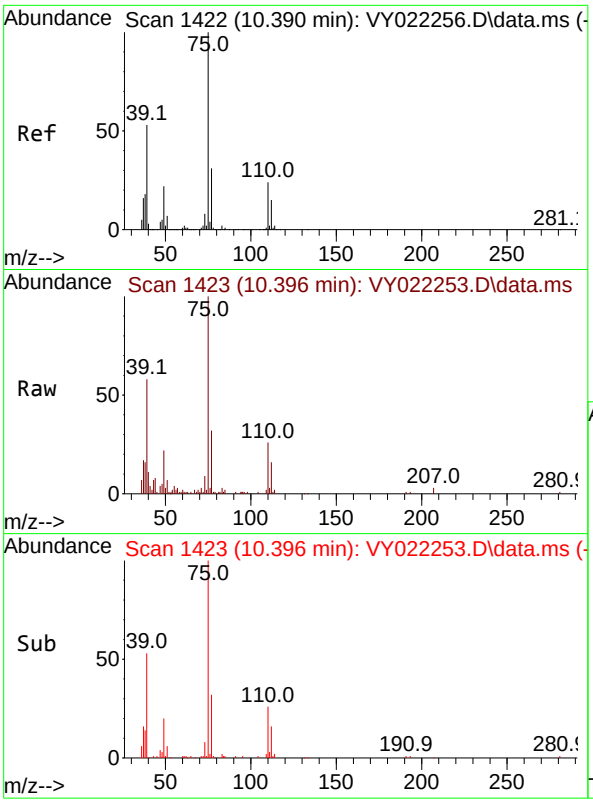


#52
Toluene
Concen: 4.722 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.000 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 92 Resp: 41001

Ion	Ratio	Lower	Upper
92	100		
91	171.8	139.1	208.7

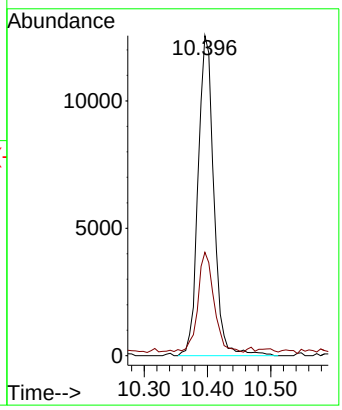




#53
t-1,3-Dichloropropene
Concen: 4.839 ug/l
RT: 10.396 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 75 Resp: 2184

Ion	Ratio	Lower	Upper
75	100		
77	31.1	25.0	37.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
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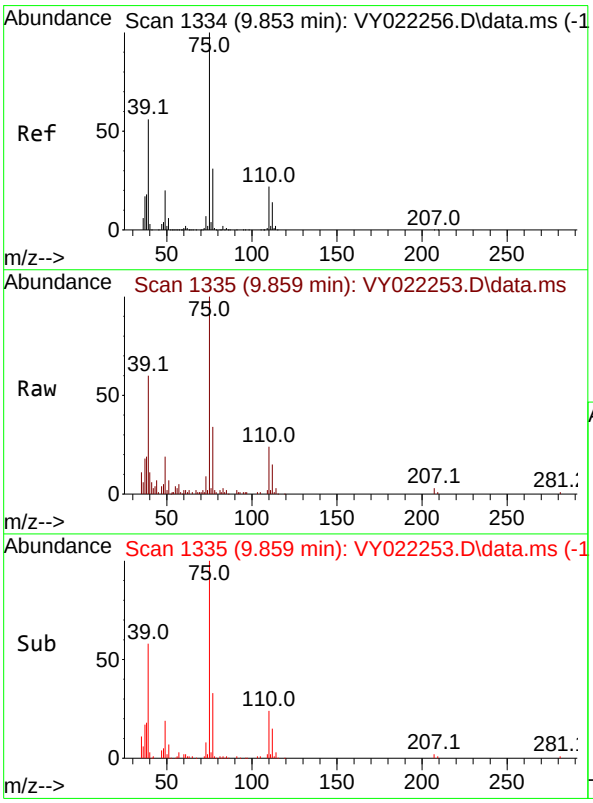
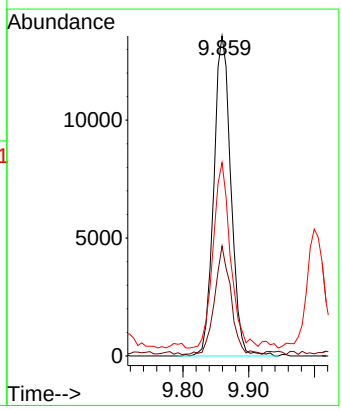
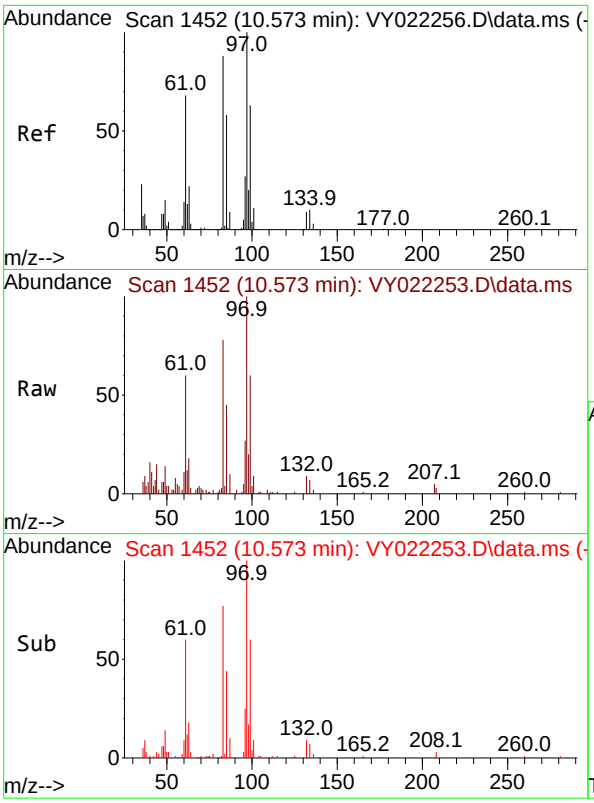


#54
cis-1,3-Dichloropropene
Concen: 4.758 ug/l
RT: 9.859 min Scan# 1335
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 75 Resp: 24609

Ion	Ratio	Lower	Upper
75	100		
77	33.3	25.1	37.7
39	58.0	44.5	66.7

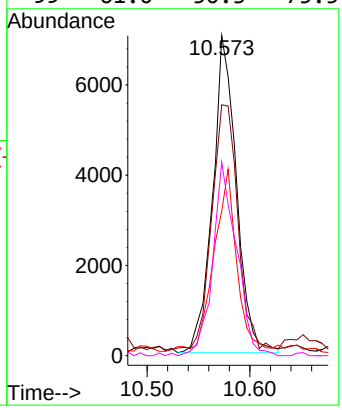




#55
1,1,2-Trichloroethane
Concen: 4.964 ug/l
RT: 10.573 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 97 Resp: 1133

Ion	Ratio	Lower	Upper
97	100		
83	77.0	70.3	105.5
85	42.7	46.2	69.4
99	61.0	50.3	75.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

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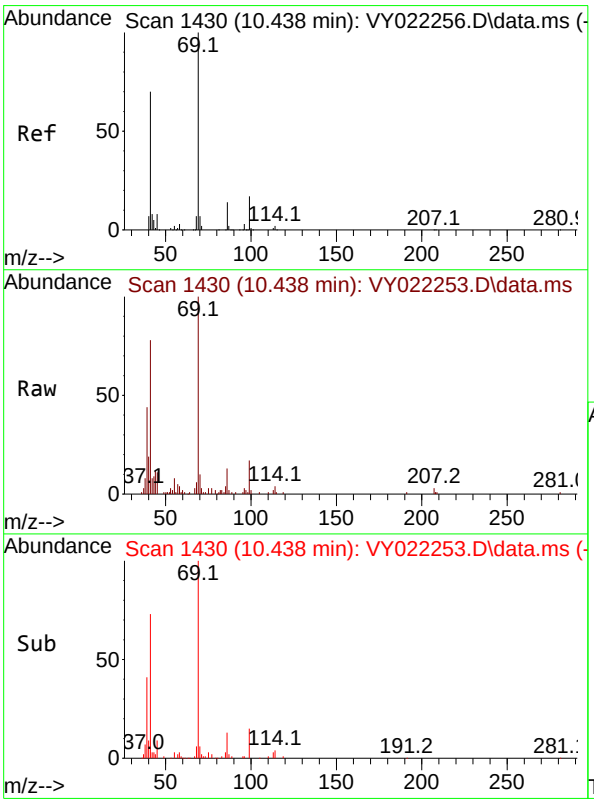
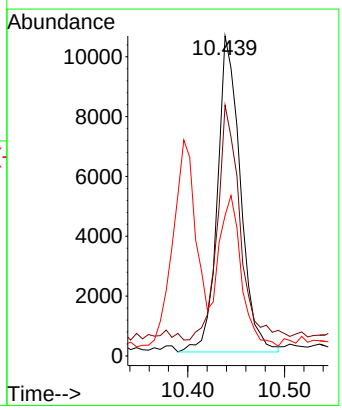
Supervised By :Semsettin Yesilyurt 05/16/2025

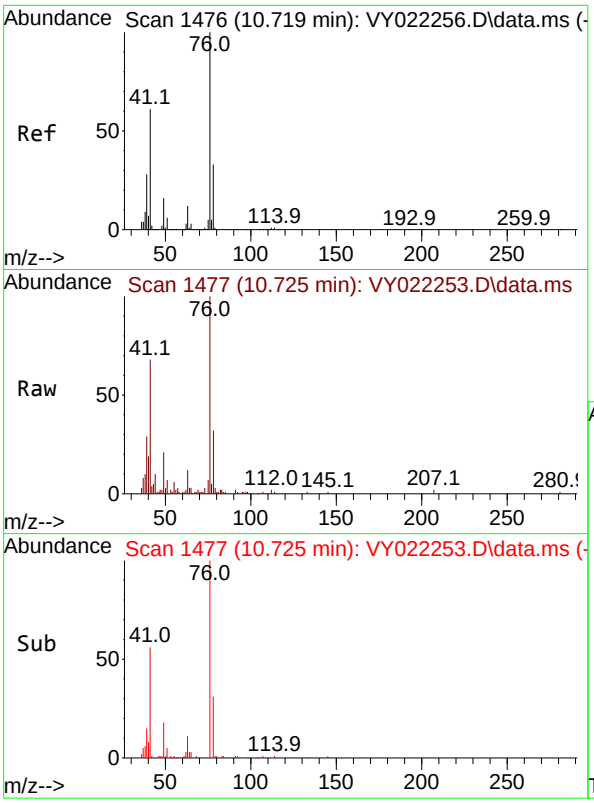


#56
Ethyl methacrylate
Concen: 4.898 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 69 Resp: 17420

Ion	Ratio	Lower	Upper
69	100		
41	73.2	56.5	84.7
39	46.8	37.1	55.7

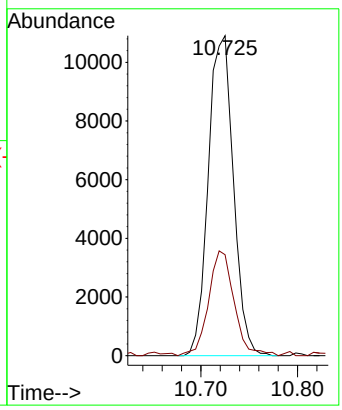




#57
1,3-Dichloropropane
Concen: 4.852 ug/l
RT: 10.725 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 76 Resp: 1968

Ion	Ratio	Lower	Upper
76	100		
78	33.2	25.8	38.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

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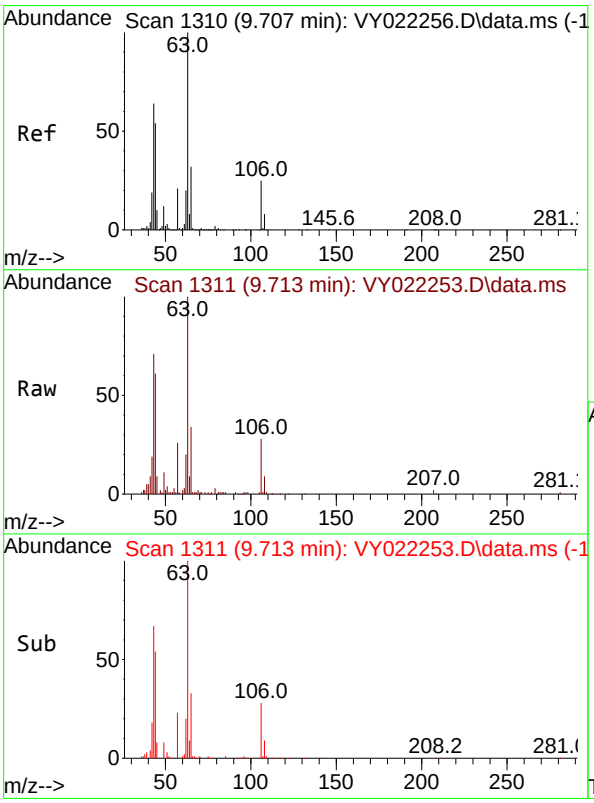
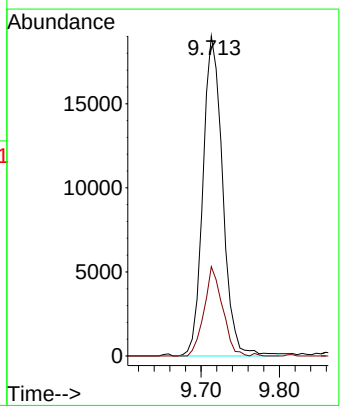
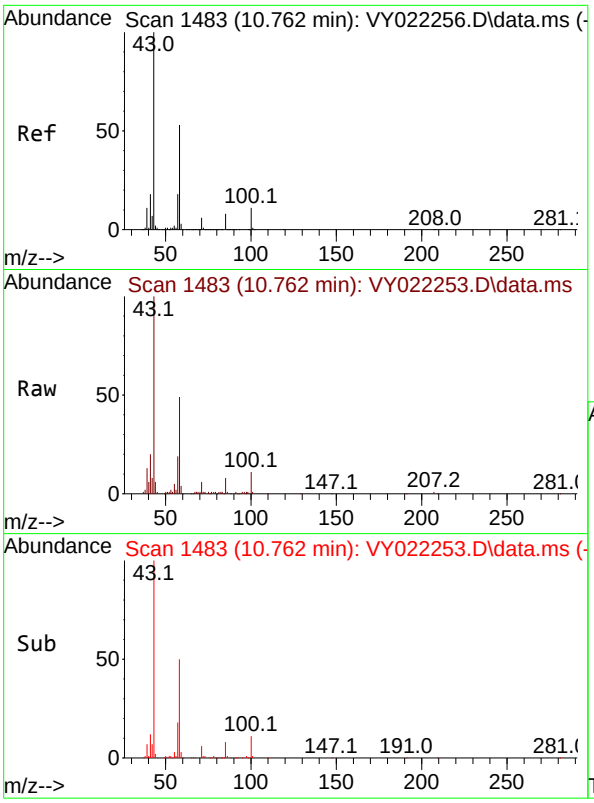


#58
2-Chloroethyl Vinyl ether
Concen: 20.807 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 63 Resp: 33215

Ion	Ratio	Lower	Upper
63	100		
106	26.0	21.0	31.4





#59
2-Hexanone
Concen: 24.617 ug/l
RT: 10.762 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 43 Resp: 3930

Ion	Ratio	Lower	Upper
43	100		
58	52.4	26.1	78.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

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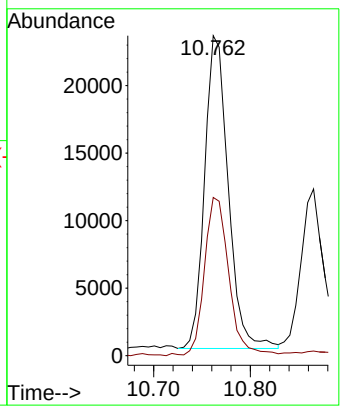
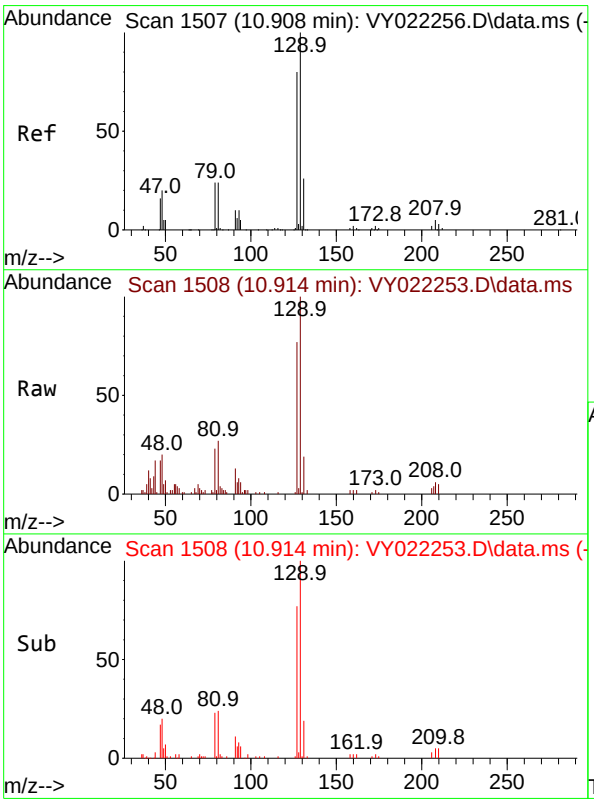
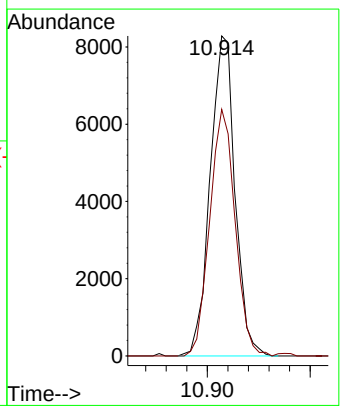


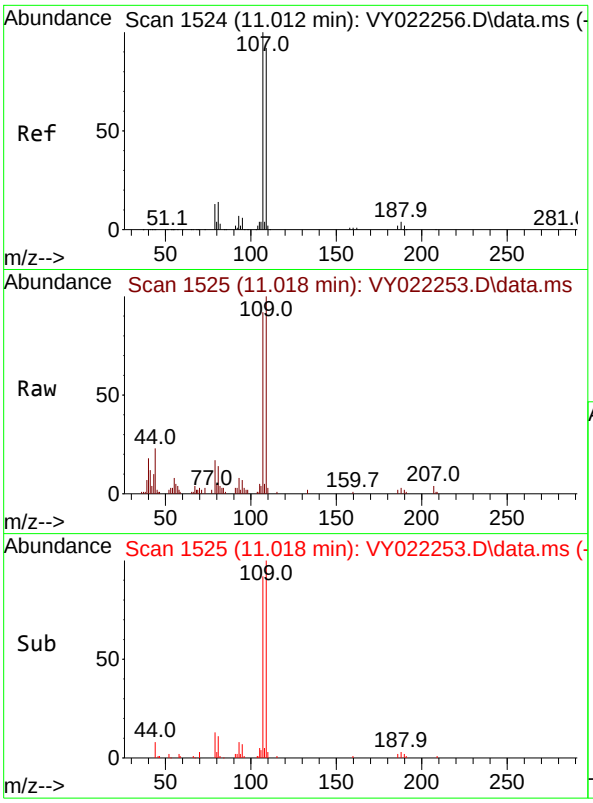


#60
Dibromochloromethane
Concen: 4.693 ug/l
RT: 10.914 min Scan# 1508
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion:129 Resp: 13908

Ion	Ratio	Lower	Upper
129	100		
127	78.6	38.6	115.7

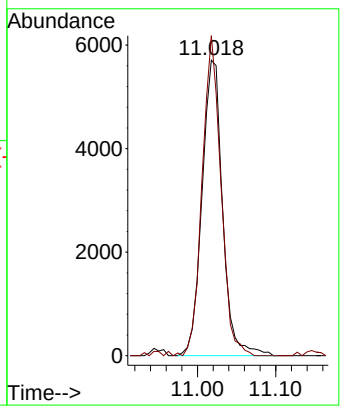




#61
1,2-Dibromoethane
Concen: 4.883 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion:107 Resp: 1039

Ion	Ratio	Lower	Upper
107	100		
109	98.9	74.6	111.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

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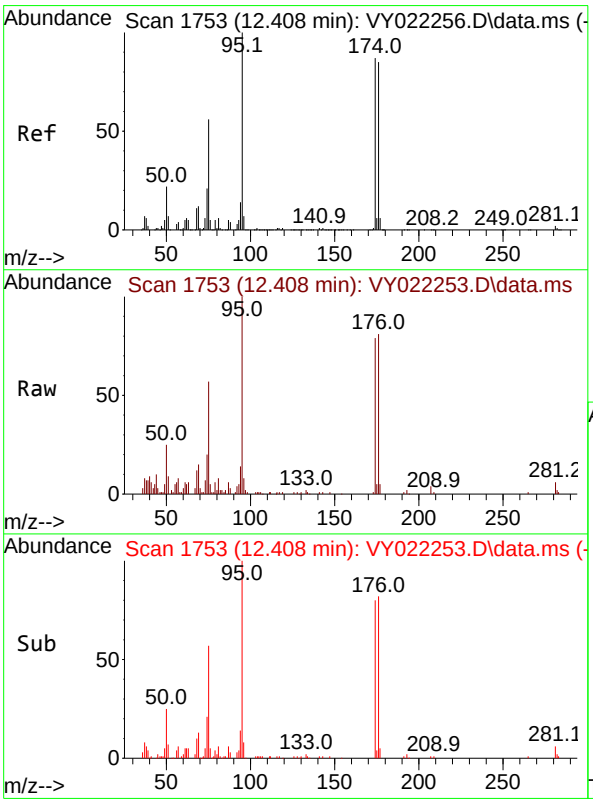
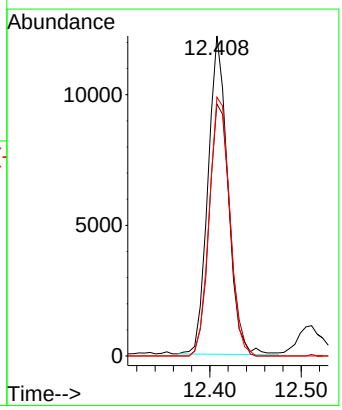
Supervised By :Semsettin Yesilyurt 05/16/2025

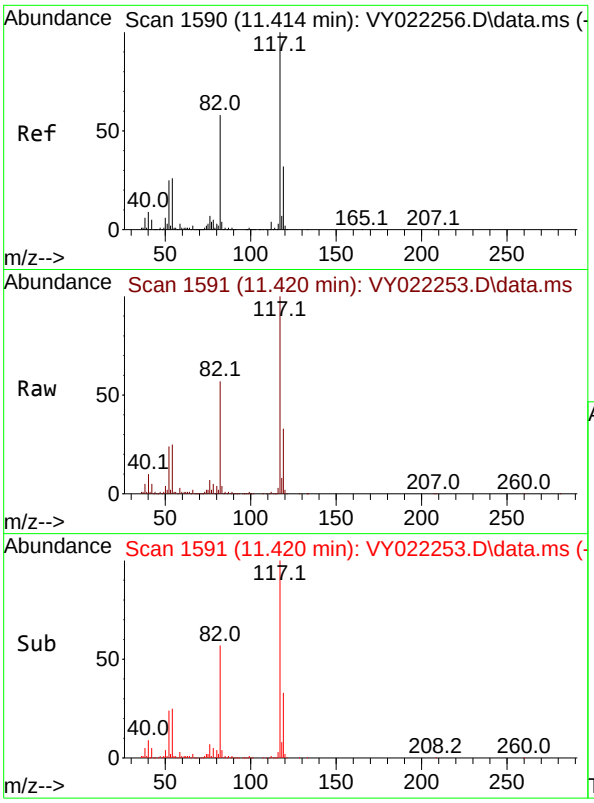


#62
4-Bromofluorobenzene
Concen: 5.028 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 95 Resp: 18328

Ion	Ratio	Lower	Upper
95	100		
174	83.0	0.0	166.8
176	84.3	0.0	160.8

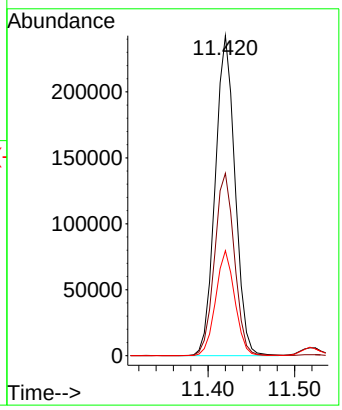




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion:117 Resp: 385399

Ion	Ratio	Lower	Upper
117	100		
82	56.9	46.6	70.0
119	32.8	25.8	38.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

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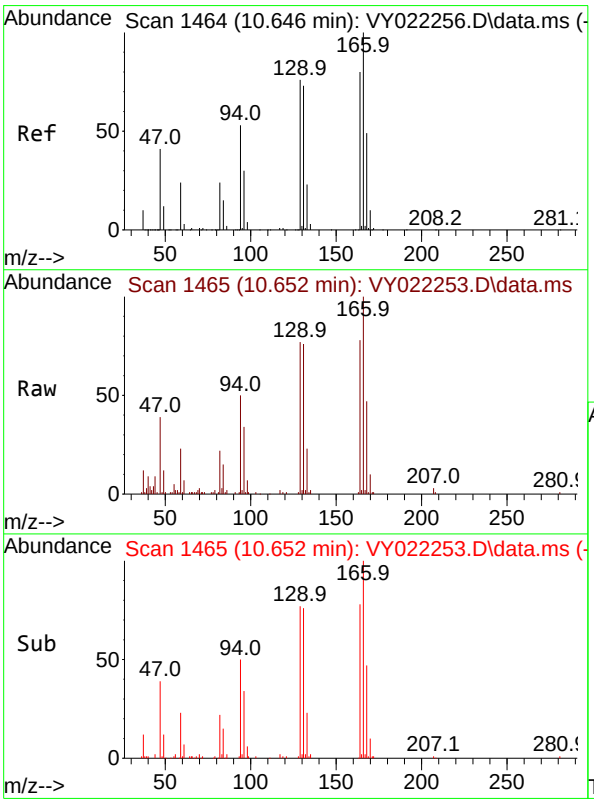
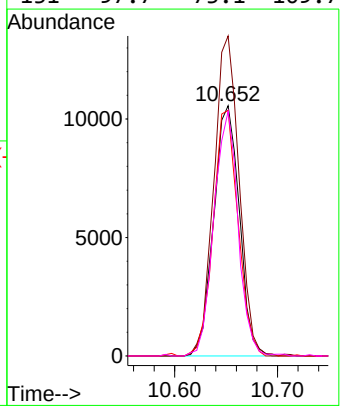
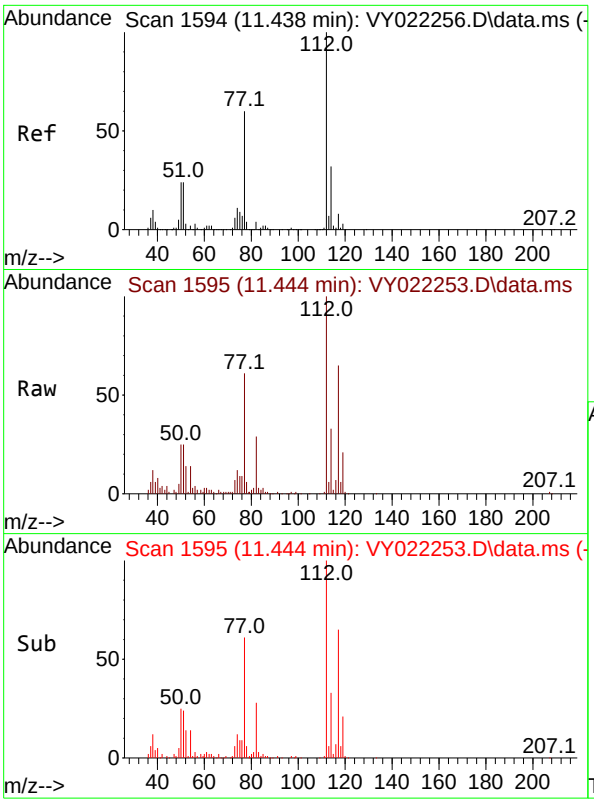


#64
Tetrachloroethene
Concen: 5.125 ug/l
RT: 10.652 min Scan# 1465
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion:164 Resp: 18255

Ion	Ratio	Lower	Upper
164	100		
166	127.8	100.4	150.6
129	98.1	76.4	114.6
131	97.7	73.1	109.7

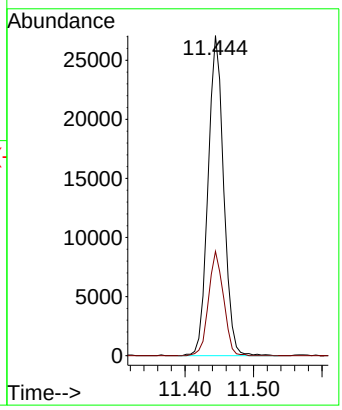




#65
Chlorobenzene
Concen: 4.927 ug/l
RT: 11.444 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion:112 Resp: 4284

Ion	Ratio	Lower	Upper
112	100		
114	32.6	25.8	38.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

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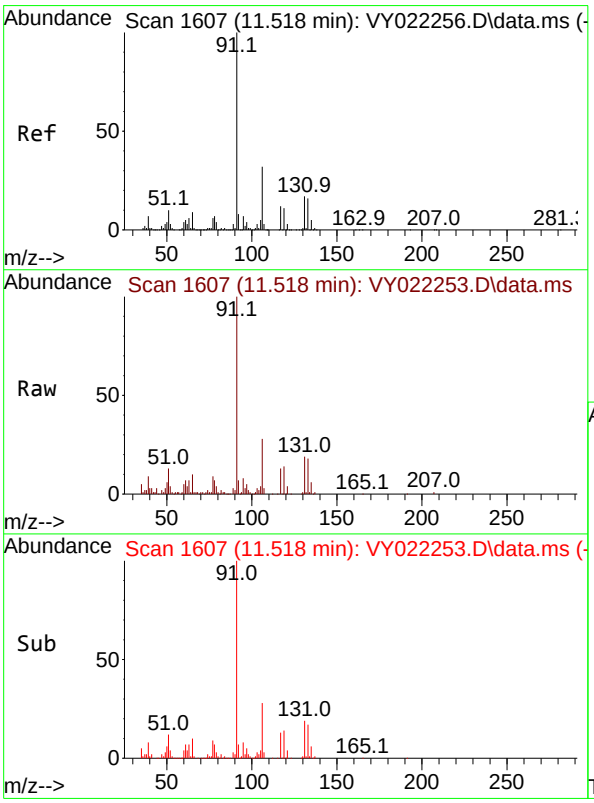
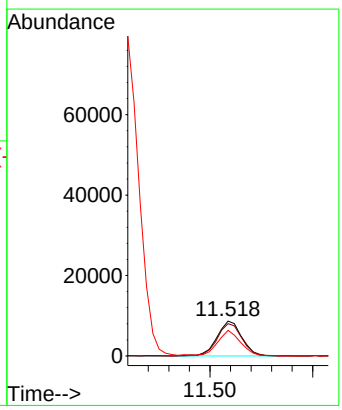
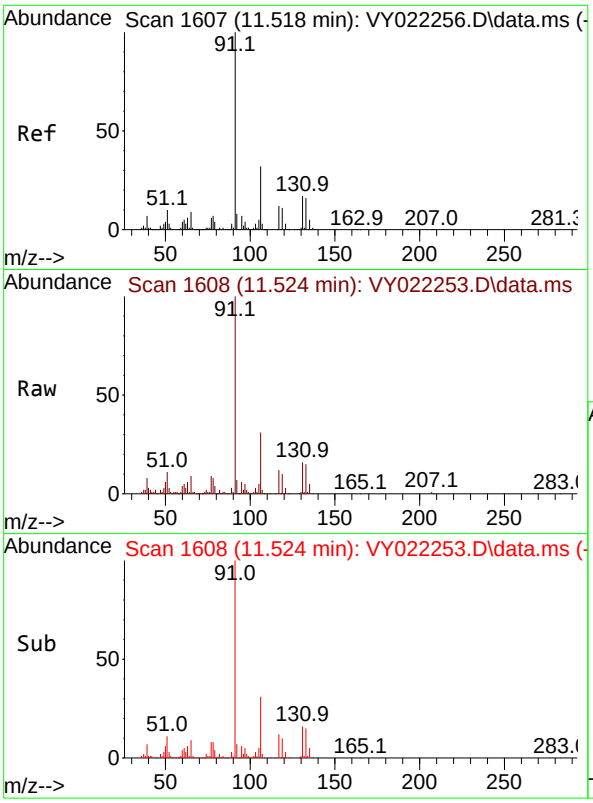


#66
1,1,1,2-Tetrachloroethane
Concen: 4.812 ug/l
RT: 11.518 min Scan# 1607
Delta R.T. 0.000 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion:131 Resp: 14385

Ion	Ratio	Lower	Upper
131	100		
133	94.9	47.3	141.9
119	68.6	33.1	99.2





#67
Ethyl Benzene
Concen: 4.766 ug/l
RT: 11.524 min Scan# 1(
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 91 Resp: 7760(

Ion	Ratio	Lower	Upper
91	100		
106	31.2	25.4	38.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

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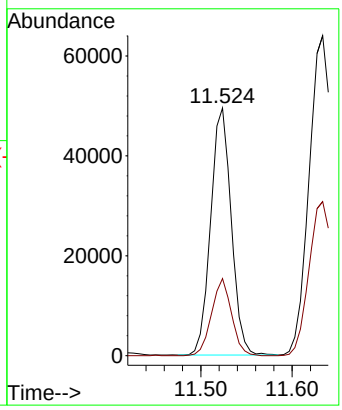
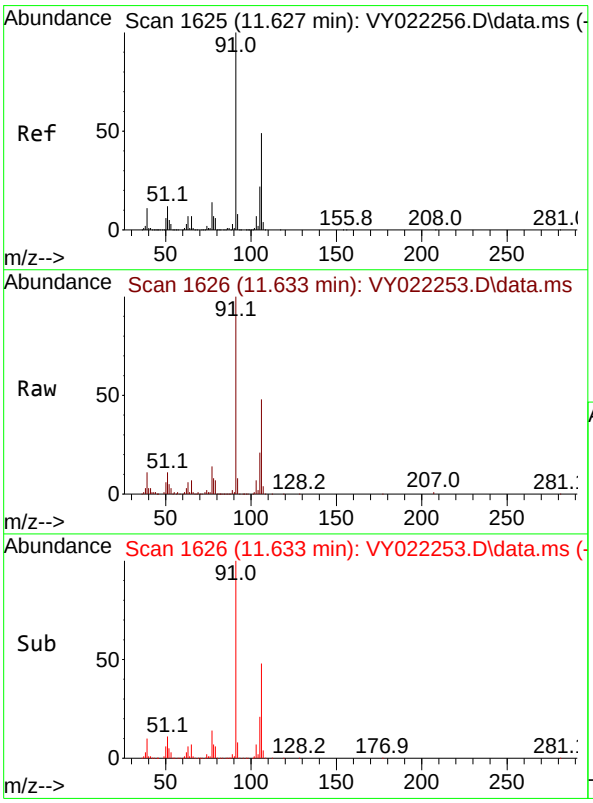
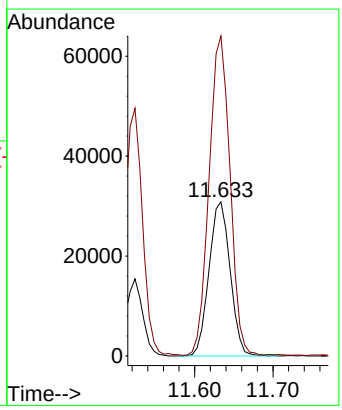


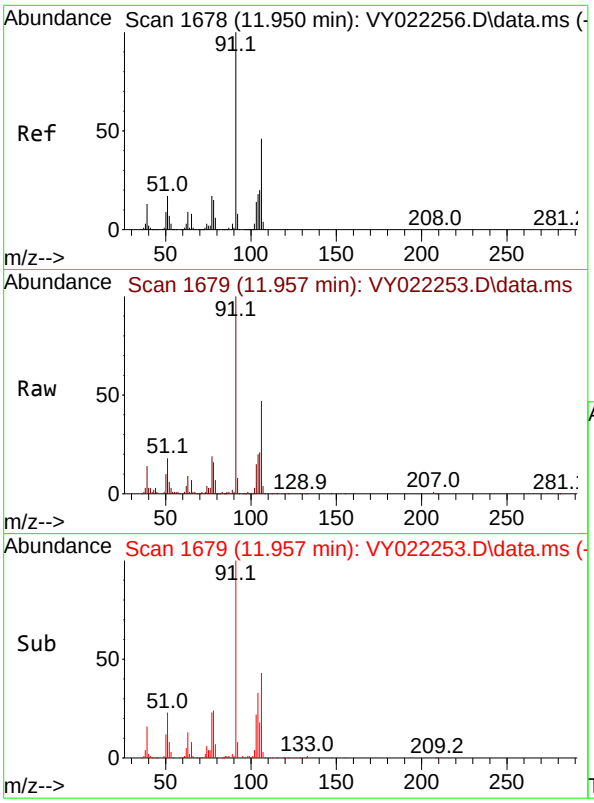


#68
m/p-Xylenes
Concen: 9.407 ug/l
RT: 11.633 min Scan# 1626
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion:106 Resp: 57721

Ion	Ratio	Lower	Upper
106	100		
91	205.0	163.0	244.4

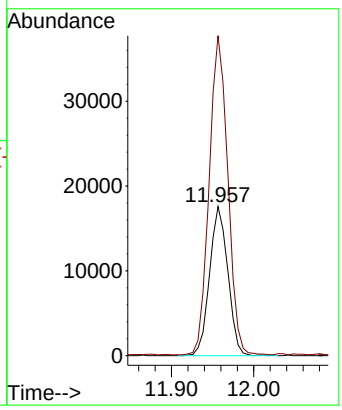




#69
o-Xylene
Concen: 4.673 ug/l
RT: 11.957 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion:106 Resp: 2713

Ion	Ratio	Lower	Upper
106	100		
91	218.6	108.3	324.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

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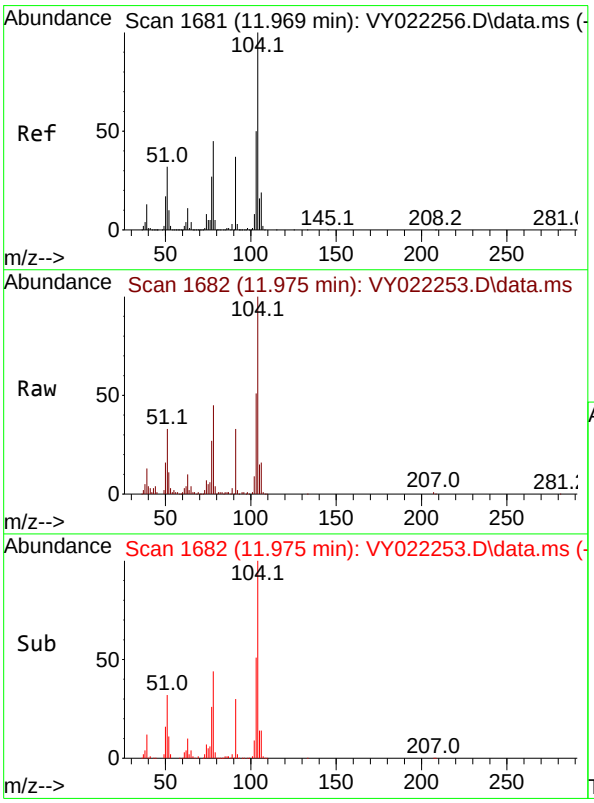
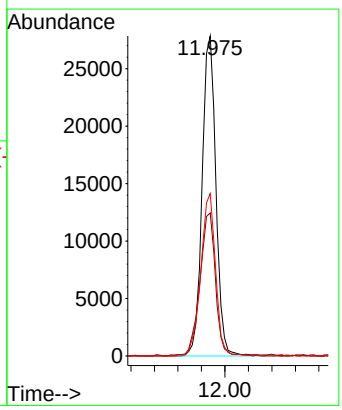
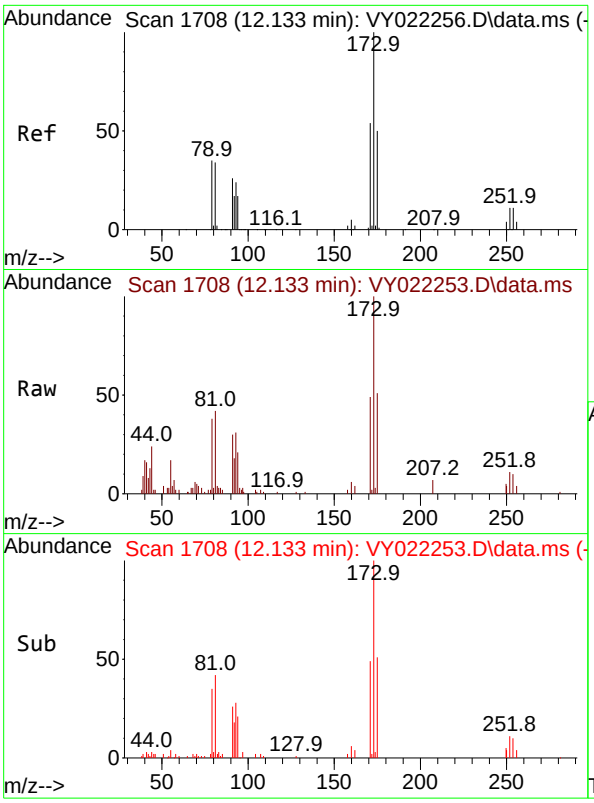


#70
Styrene
Concen: 4.652 ug/l
RT: 11.975 min Scan# 1682
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion:104 Resp: 45556

Ion	Ratio	Lower	Upper
104	100		
78	50.6	40.9	61.3
103	54.2	43.7	65.5

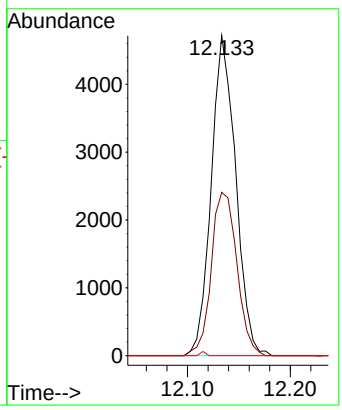




#71
Bromoform
Concen: 4.834 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion:173 Resp: 7799

Ion	Ratio	Lower	Upper
173	100		
175	53.5	24.7	74.1
254	0.3	0.0	0.0#



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

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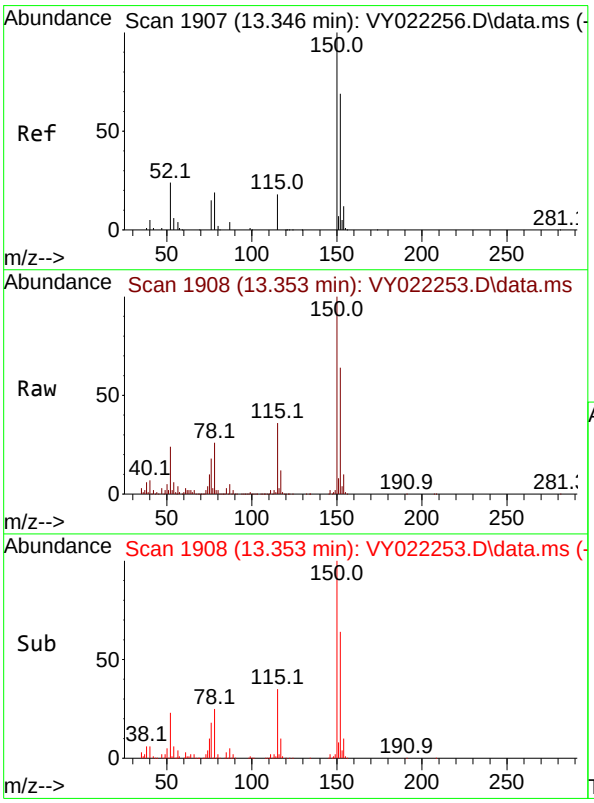
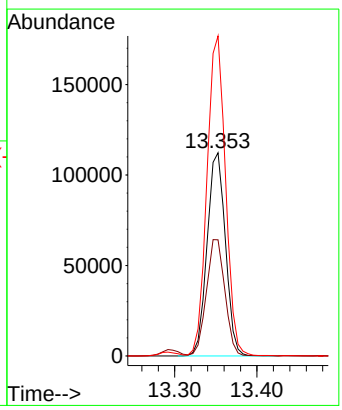
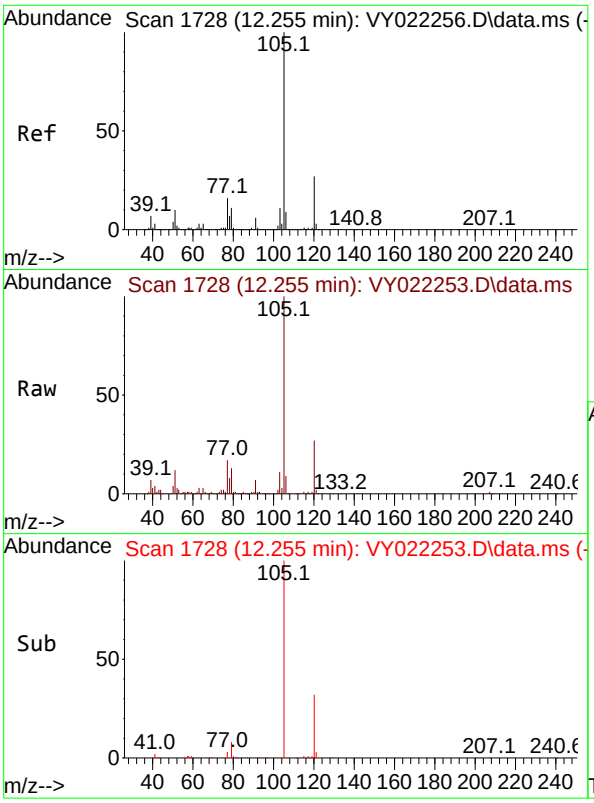


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.353 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion:152 Resp: 174003

Ion	Ratio	Lower	Upper
152	100		
115	58.0	29.4	88.2
150	158.8	0.0	353.8





#73
Isopropylbenzene
Concen: 5.017 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion:105 Resp: 7232

Ion	Ratio	Lower	Upper
105	100		
120	27.3	13.2	39.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

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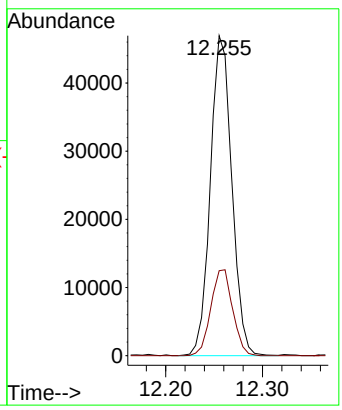
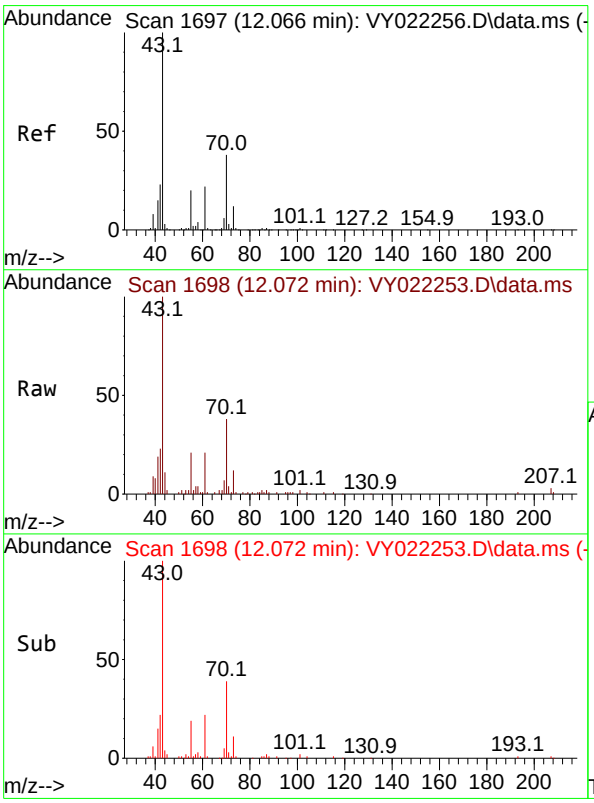
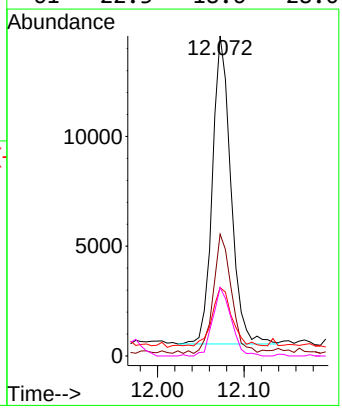


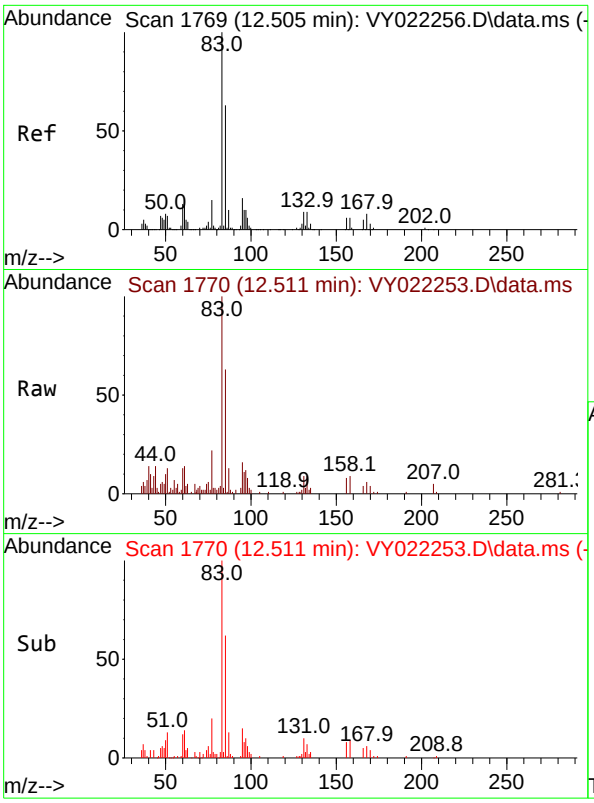


#74
N-amyl acetate
Concen: 5.043 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 43 Resp: 20793

Ion	Ratio	Lower	Upper
43	100		
70	37.9	31.4	47.0
55	19.9	17.0	25.6
61	22.3	18.6	28.0

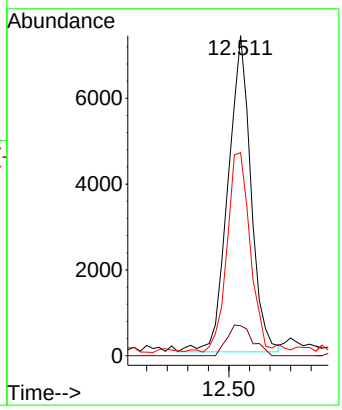




#75
1,1,2,2-Tetrachloroethane
Concen: 5.152 ug/l
RT: 12.511 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 83 Resp: 1142

Ion	Ratio	Lower	Upper
83	100		
131	10.9	4.9	14.7
85	63.6	32.0	96.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
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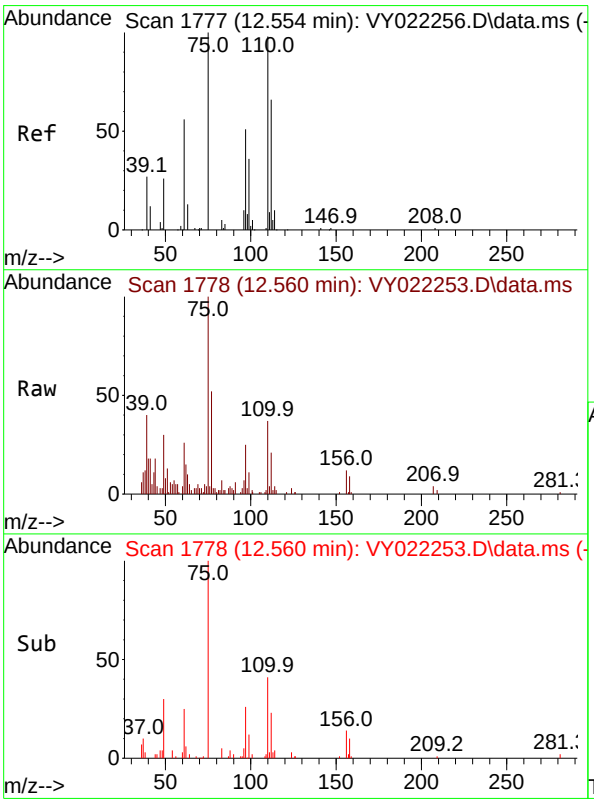
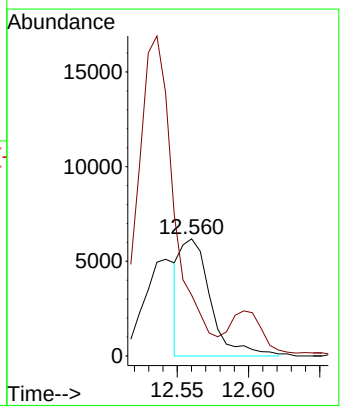
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

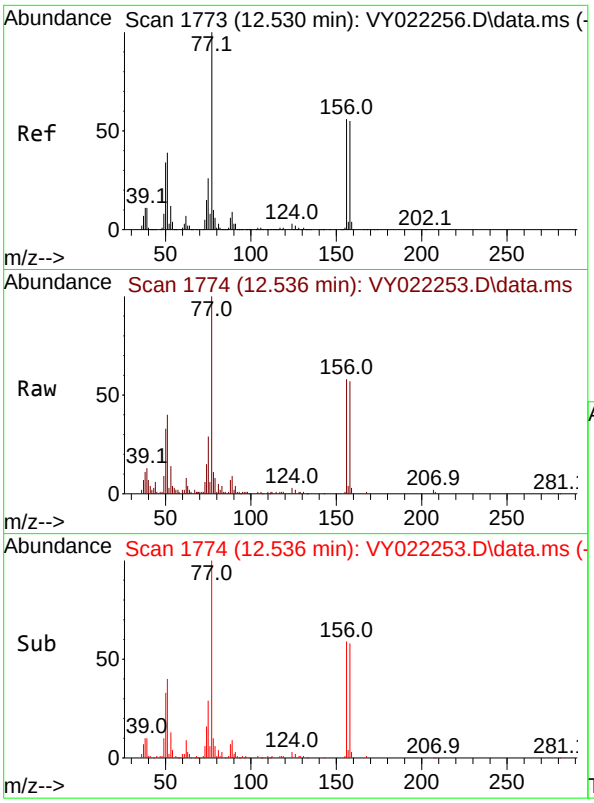


#76
1,2,3-Trichloropropane
Concen: 2.960 ug/l m
RT: 12.560 min Scan# 1778
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 75 Resp: 9076

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

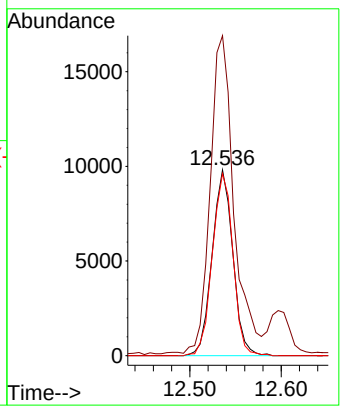




#77
Bromobenzene
Concen: 5.015 ug/l
RT: 12.536 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion:156 Resp: 1544

Ion	Ratio	Lower	Upper
156	100		
77	195.0	94.5	283.6
158	97.7	48.4	145.3



Instrument :
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ClientSampleId :
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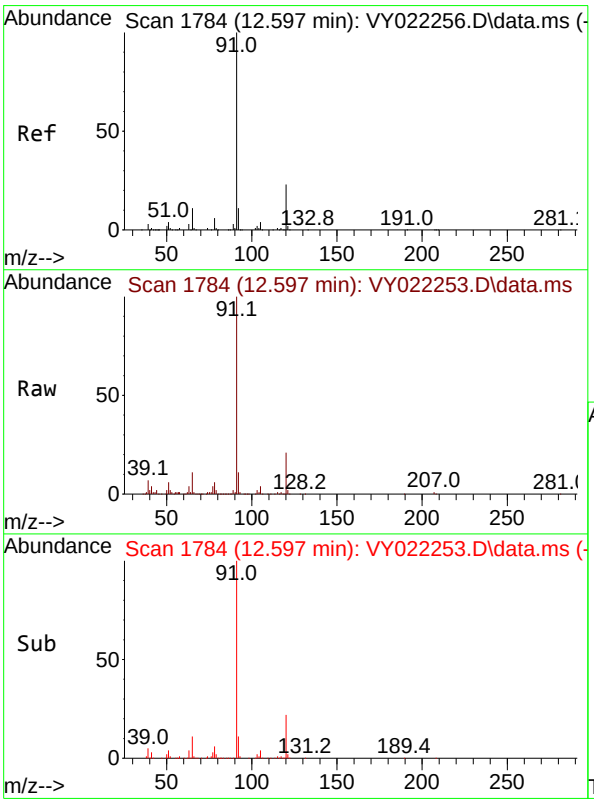
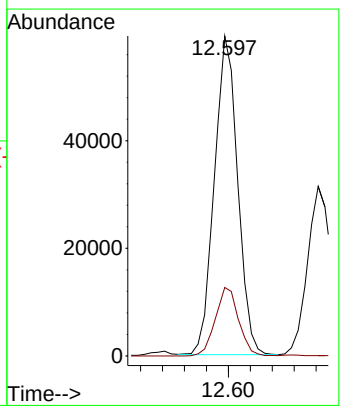
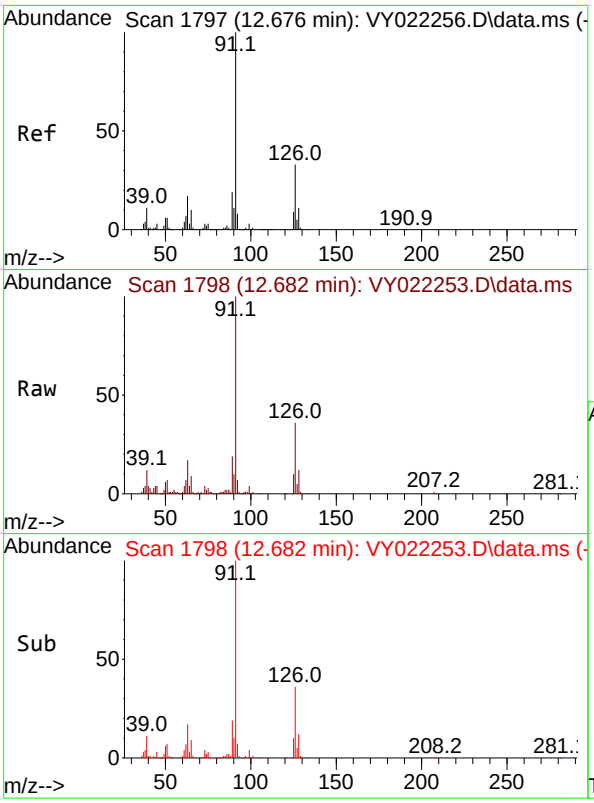


#78
n-propylbenzene
Concen: 5.034 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 91 Resp: 87533

Ion	Ratio	Lower	Upper
91	100		
120	21.4	11.1	33.3

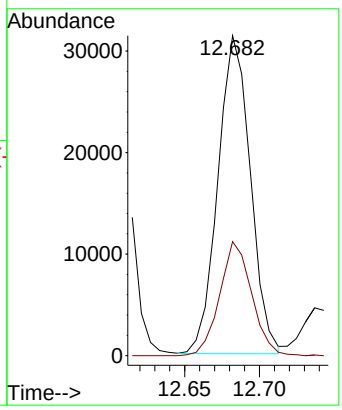




#79
2-Chlorotoluene
Concen: 4.944 ug/l
RT: 12.682 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 91 Resp: 4724

Ion	Ratio	Lower	Upper
91	100		
126	35.4	16.8	50.4



Instrument :
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ClientSampleId :
VSTDICC005

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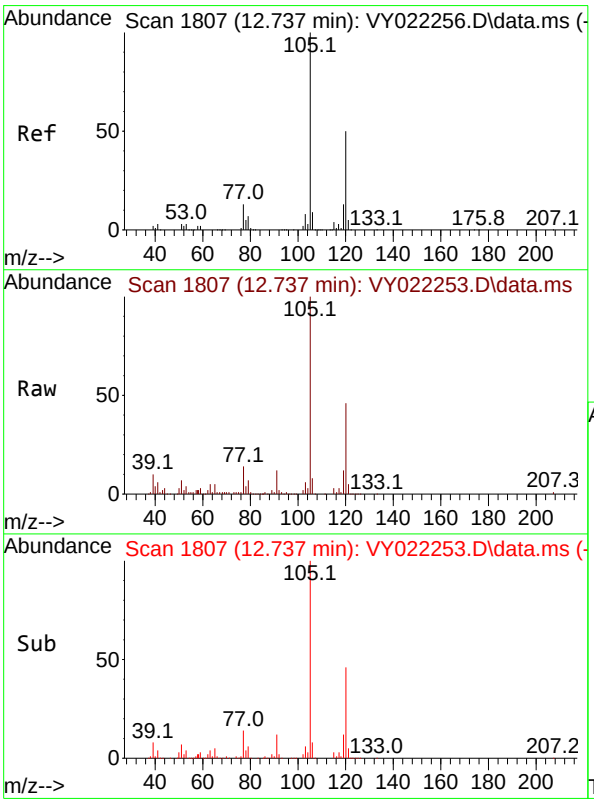
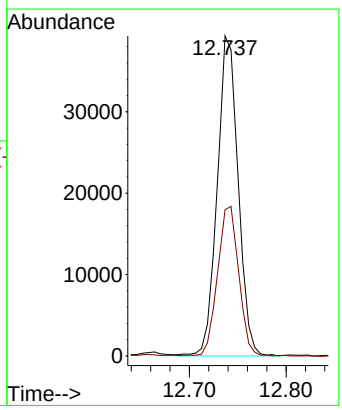
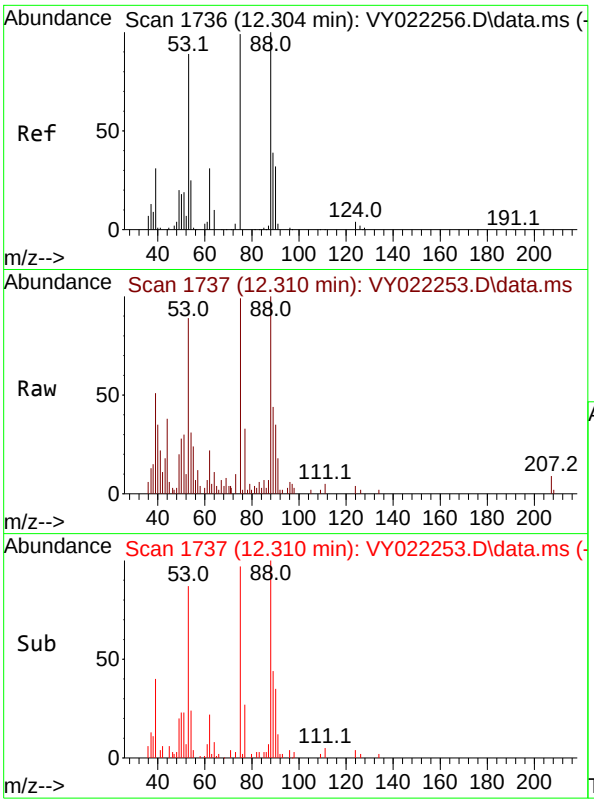


#80
1,3,5-Trimethylbenzene
Concen: 5.073 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion:105 Resp: 59031

Ion	Ratio	Lower	Upper
105	100		
120	47.3	24.2	72.6





#81
trans-1,4-Dichloro-2-butene
Concen: 5.373 ug/l
RT: 12.310 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 75 Resp: 467

Ion	Ratio	Lower	Upper
75	100		
53	93.6	75.8	113.8
89	50.0	36.2	54.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

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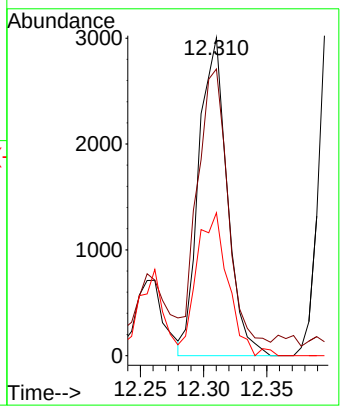
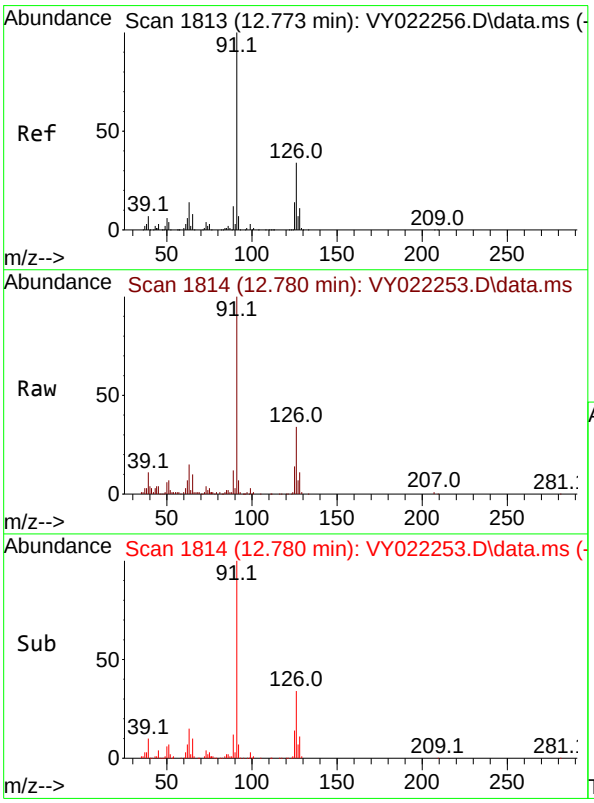
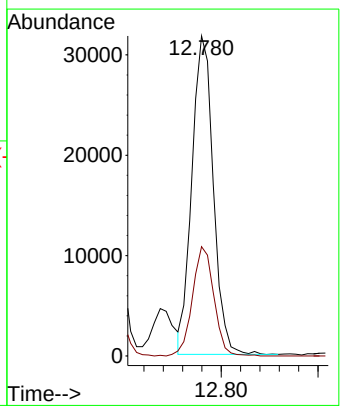


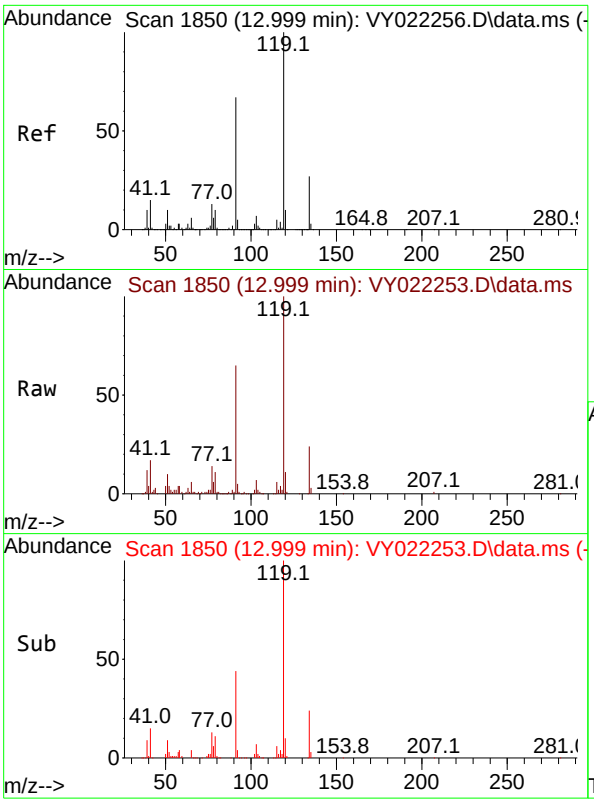


#82
4-Chlorotoluene
Concen: 4.959 ug/l
RT: 12.780 min Scan# 1814
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 91 Resp: 48737

Ion	Ratio	Lower	Upper
91	100		
126	34.5	16.8	50.4

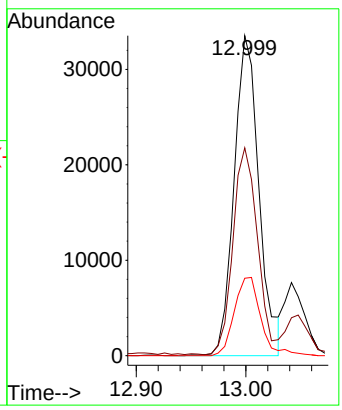




#83
tert-Butylbenzene
Concen: 5.109 ug/l
RT: 12.999 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion:119 Resp: 5284

Ion	Ratio	Lower	Upper
119	100		
91	64.1	32.8	98.3
134	26.0	12.9	38.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
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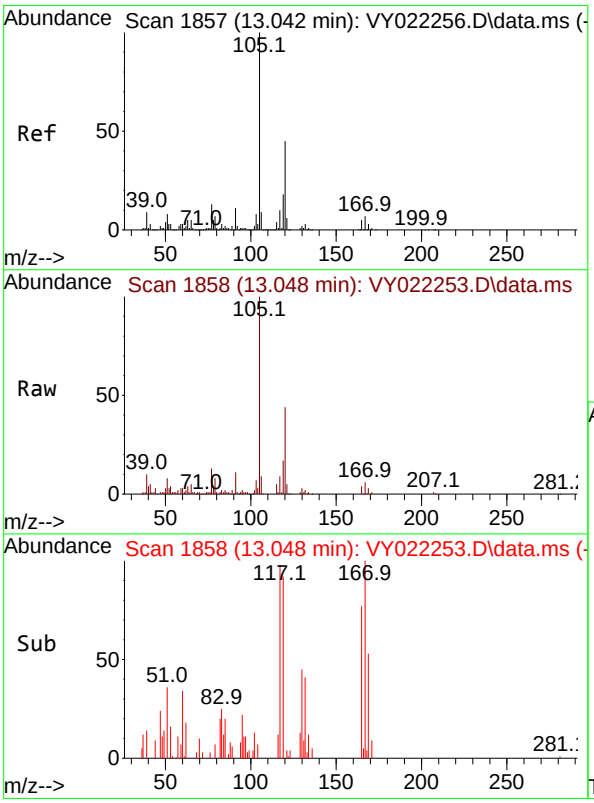
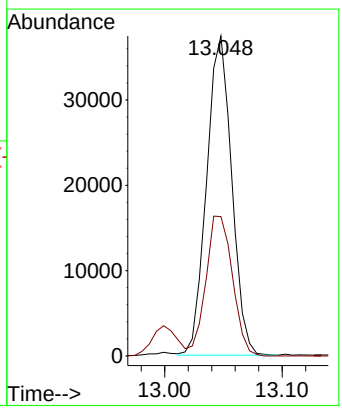
Supervised By :Semsettin Yesilyurt 05/16/2025

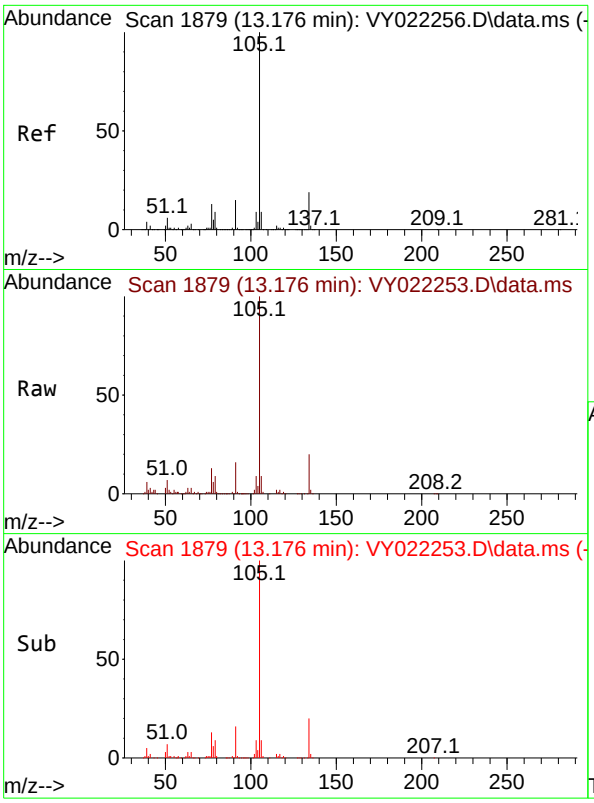


#84
1,2,4-Trimethylbenzene
Concen: 4.804 ug/l
RT: 13.048 min Scan# 1858
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion:105 Resp: 55488

Ion	Ratio	Lower	Upper
105	100		
120	46.5	22.3	66.9





#85
sec-Butylbenzene
Concen: 4.975 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion:105 Resp: 7638

Ion	Ratio	Lower	Upper
105	100		
134	20.9	9.8	29.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

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Reviewed By :Mahesh Dadoda 05/16/2025
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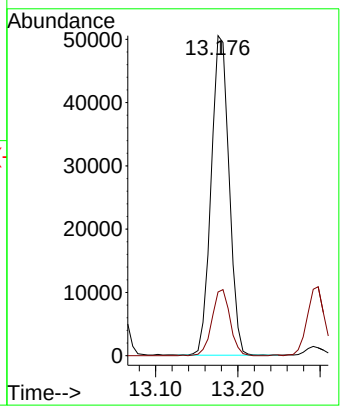
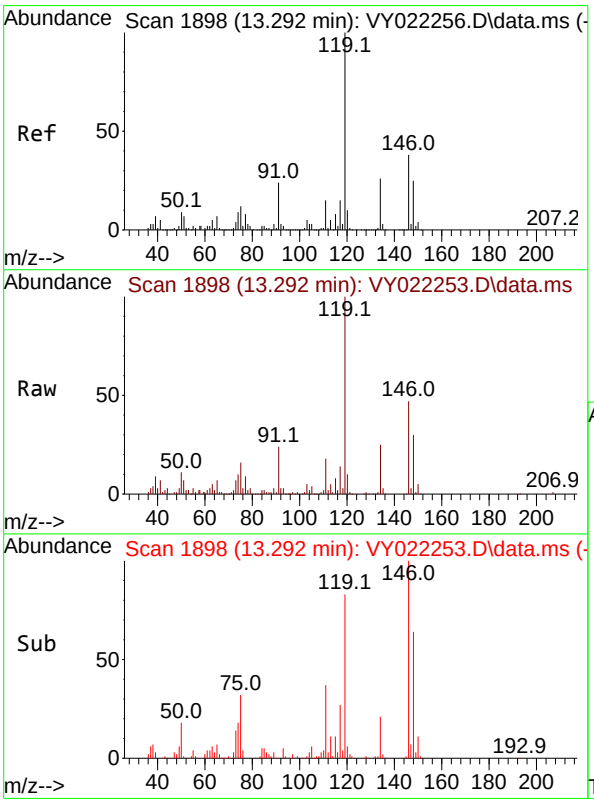
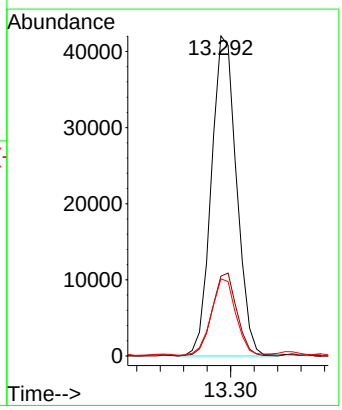


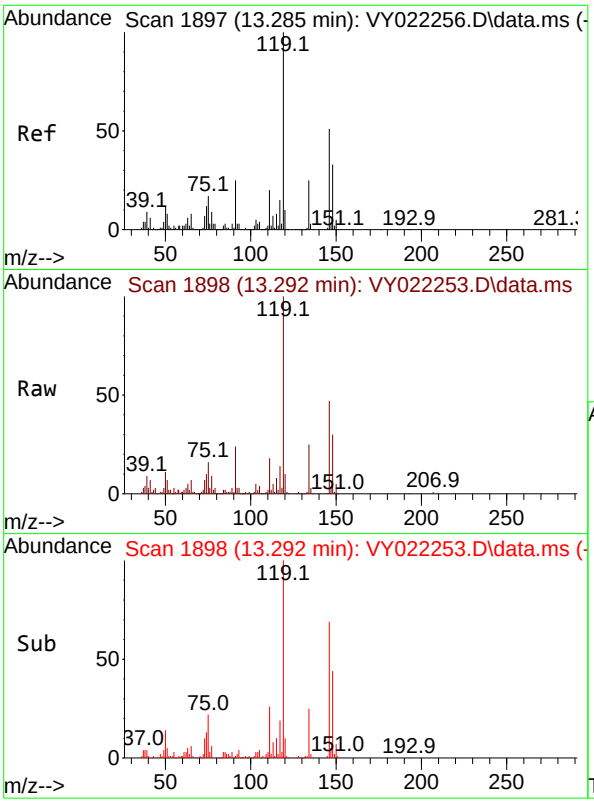


#86
p-Isopropyltoluene
Concen: 4.849 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.000 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion:119 Resp: 62608

Ion	Ratio	Lower	Upper
119	100		
134	25.5	12.9	38.6
91	23.2	12.1	36.3

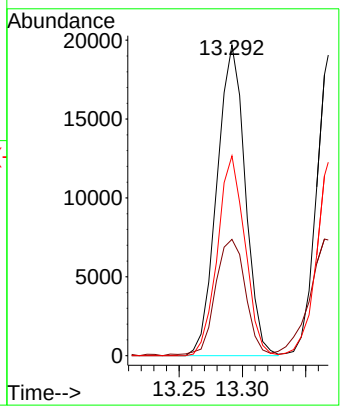




#87
1,3-Dichlorobenzene
Concen: 4.863 ug/l
RT: 13.292 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion:146 Resp: 3056

Ion	Ratio	Lower	Upper
146	100		
111	39.9	19.9	59.7
148	62.5	31.9	95.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
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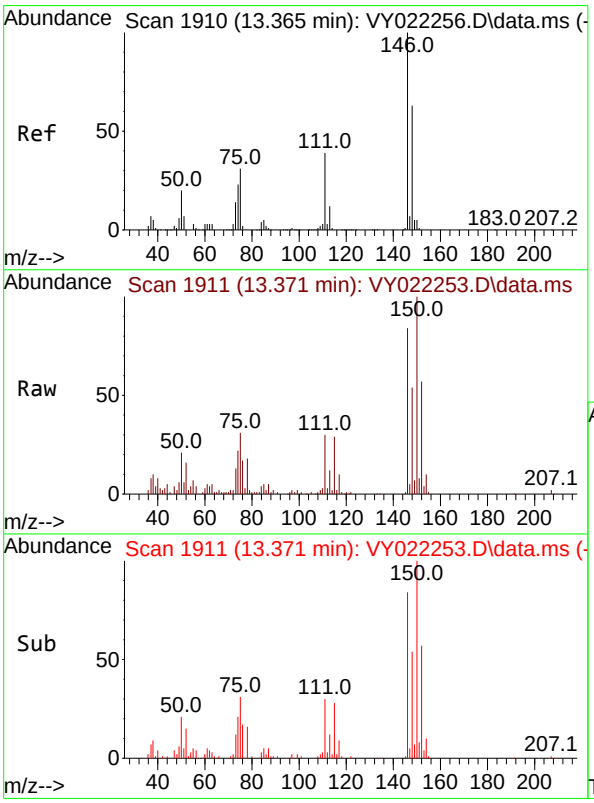
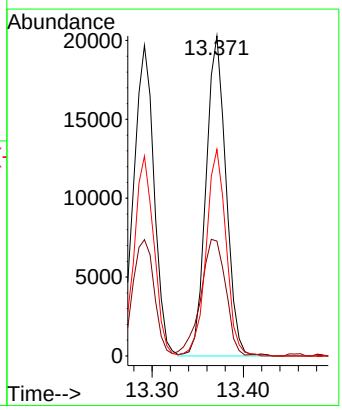
Supervised By :Semsettin Yesilyurt 05/16/2025

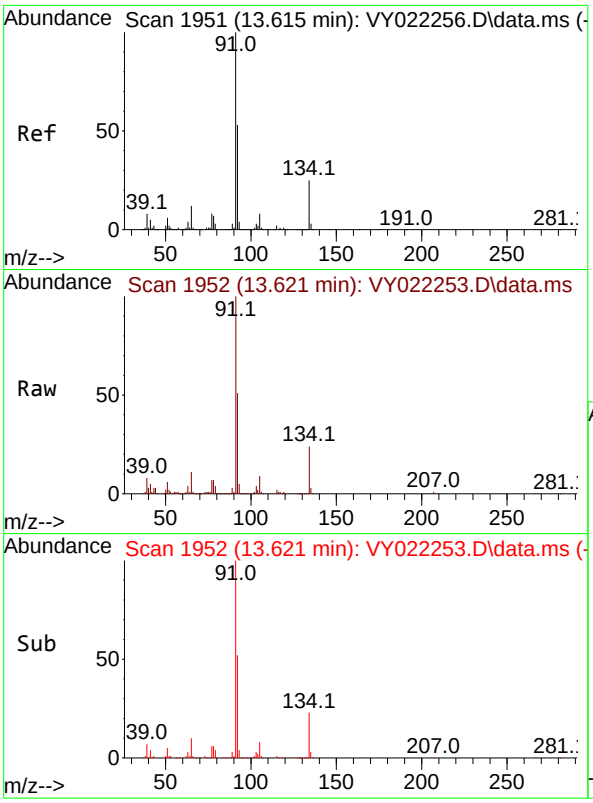


#88
1,4-Dichlorobenzene
Concen: 5.063 ug/l
RT: 13.371 min Scan# 1911
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion:146 Resp: 30610

Ion	Ratio	Lower	Upper
146	100		
111	45.2	20.0	59.9
148	64.8	32.1	96.5

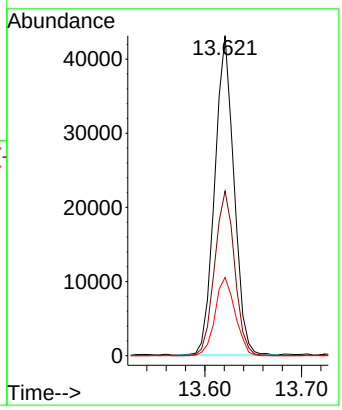




#89
n-Butylbenzene
Concen: 4.869 ug/l
RT: 13.621 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 91 Resp: 5948

Ion	Ratio	Lower	Upper
91	100		
92	53.6	26.3	78.9
134	25.6	12.4	37.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

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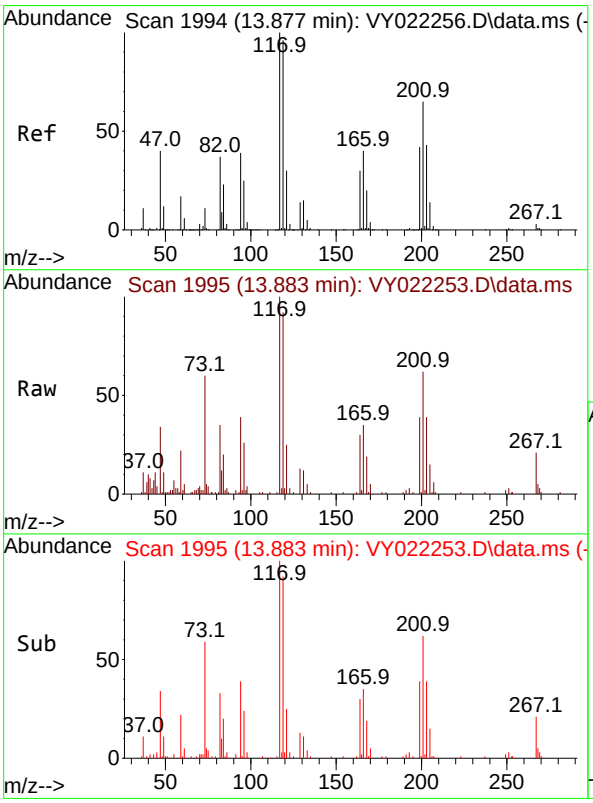
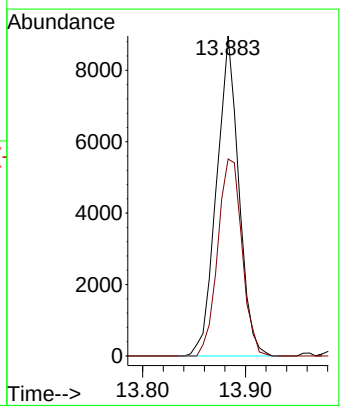
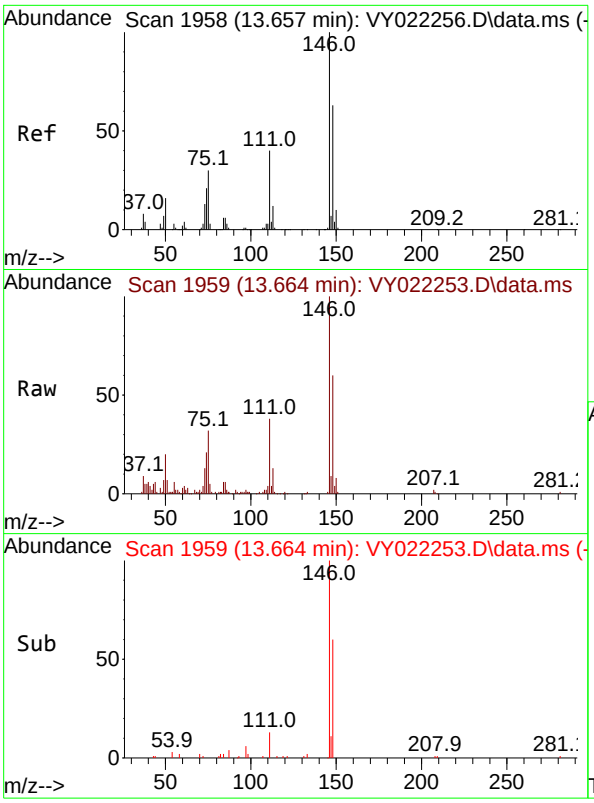


#90
Hexachloroethane
Concen: 5.158 ug/l
RT: 13.883 min Scan# 1995
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion:117 Resp: 13445

Ion	Ratio	Lower	Upper
117	100		
201	67.2	35.2	105.6

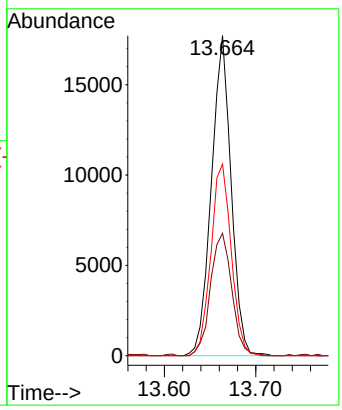




#91
1,2-Dichlorobenzene
Concen: 5.030 ug/l
RT: 13.664 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion:146 Resp: 2655

Ion	Ratio	Lower	Upper
146	100		
111	41.2	20.5	61.5
148	61.8	32.0	96.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

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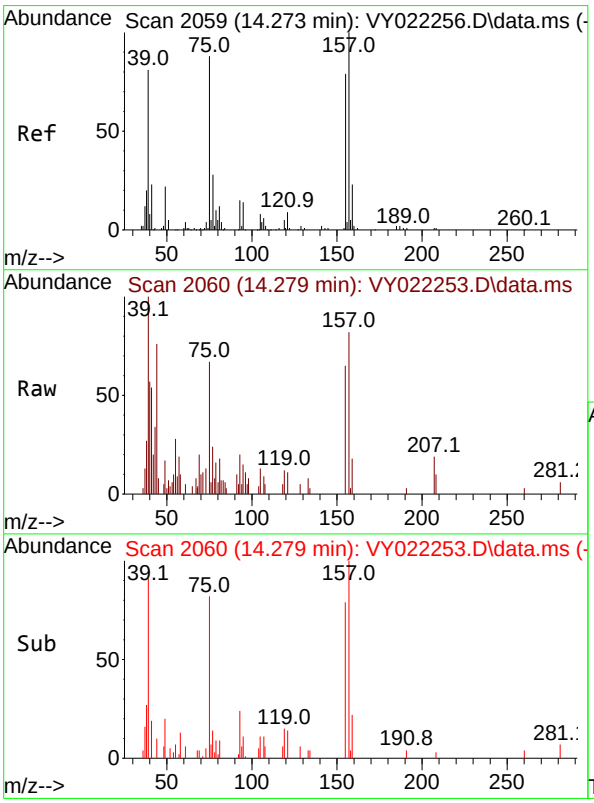
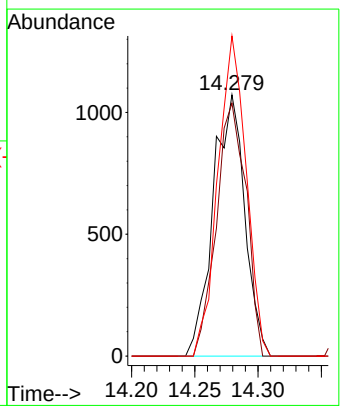
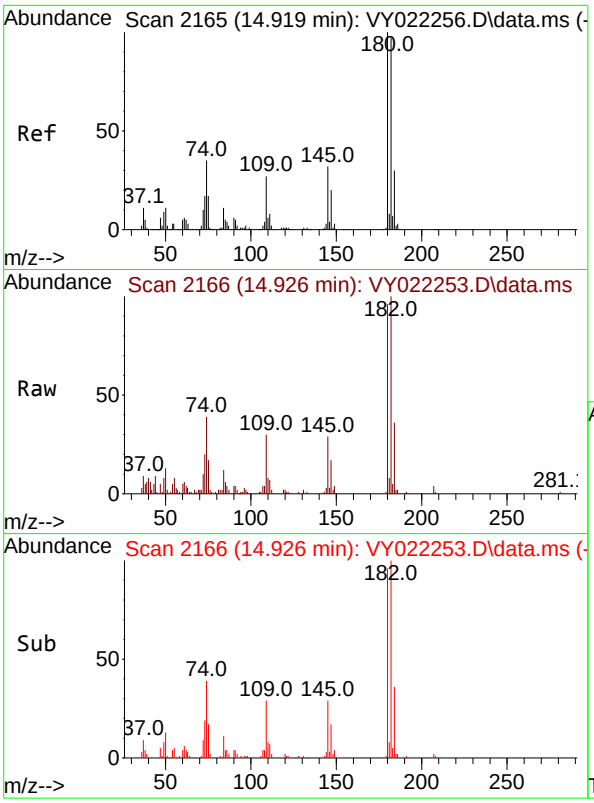


#92
1,2-Dibromo-3-Chloropropane
Concen: 5.217 ug/l
RT: 14.279 min Scan# 2060
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 75 Resp: 1865

Ion	Ratio	Lower	Upper
75	100		
155	90.8	43.4	130.1
157	109.4	54.6	163.9

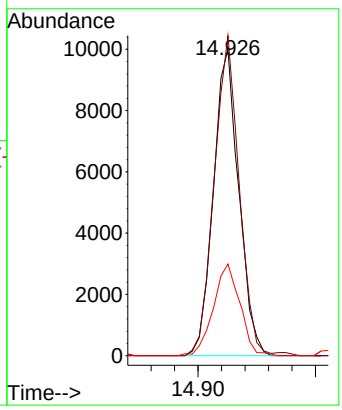




#93
1,2,4-Trichlorobenzene
Concen: 4.906 ug/l
RT: 14.926 min Scan# 21
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion:180 Resp: 1496

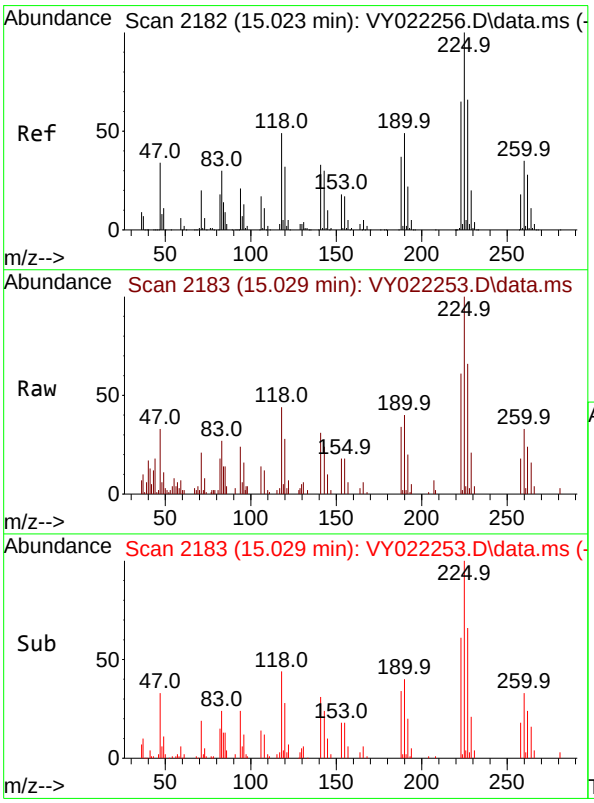
Ion	Ratio	Lower	Upper
180	100		
182	103.3	48.0	144.0
145	31.4	15.0	45.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

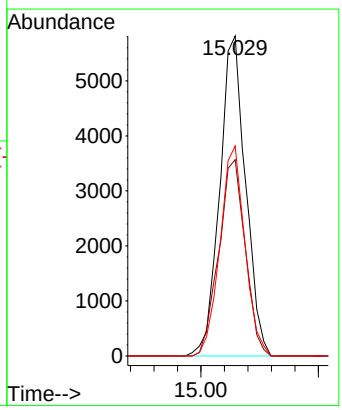
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

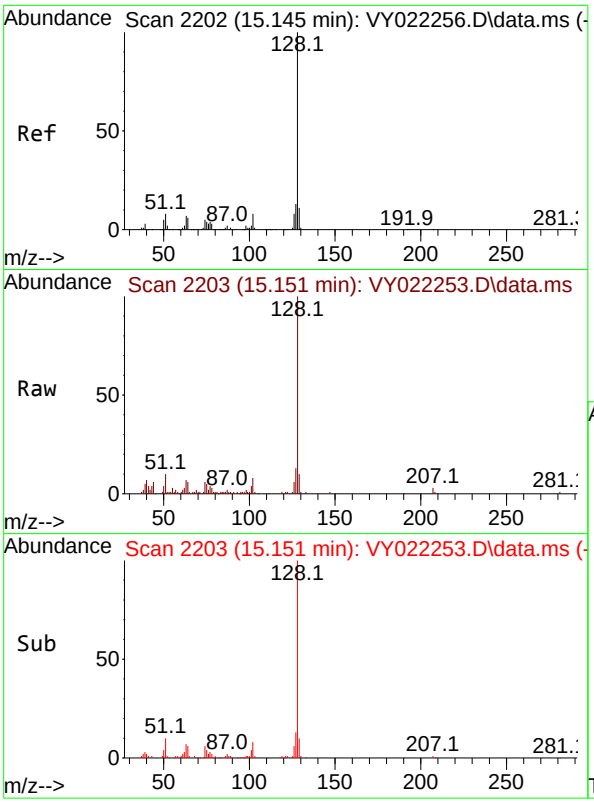


#94
Hexachlorobutadiene
Concen: 5.226 ug/l
RT: 15.029 min Scan# 2183
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion:225 Resp: 8887

Ion	Ratio	Lower	Upper
225	100		
223	62.6	31.5	94.5
227	63.3	32.1	96.3

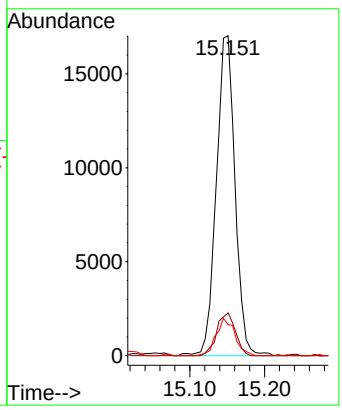




#95
Naphthalene
Concen: 5.124 ug/l
RT: 15.151 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion:128 Resp: 2965

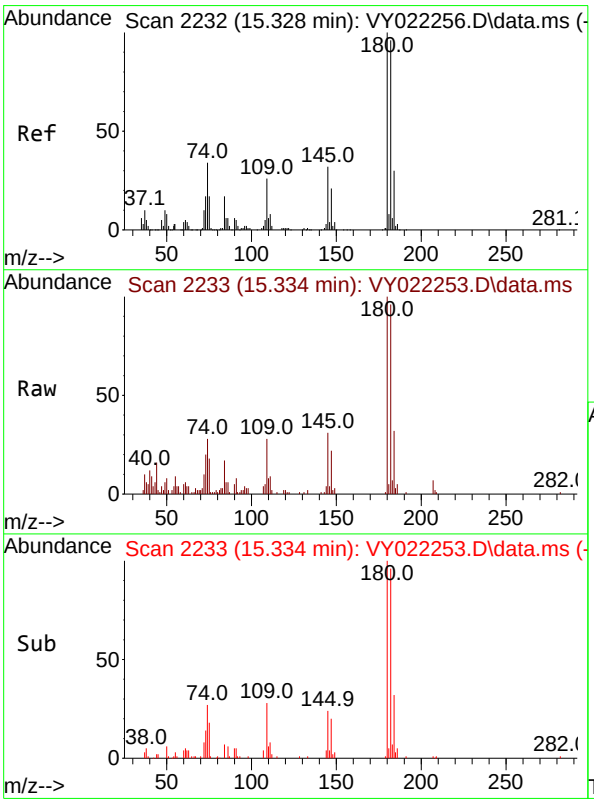
Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.2	15.2
129	11.7	8.8	13.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

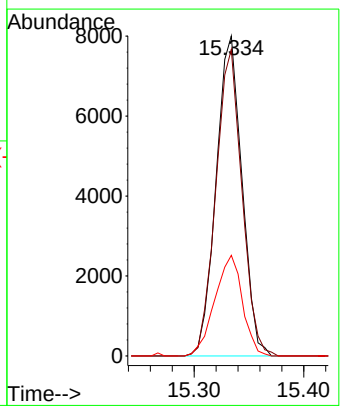
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025



#96
1,2,3-Trichlorobenzene
Concen: 5.063 ug/l
RT: 15.334 min Scan# 2233
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion:180 Resp: 13097

Ion	Ratio	Lower	Upper
180	100		
182	96.6	47.1	141.3
145	33.7	15.9	47.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022254.D
Acq On : 15 May 2025 10:16
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

Quant Time: May 16 01:21:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:19:39 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	7.707	168	265034	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	8.616	114	446109	50.000	ug/l		0.00
63) Chlorobenzene-d5	11.414	117	377211	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	171972	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	8.067	65	29608	10.222	ug/l		0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	20.440%#			
35) Dibromofluoromethane	7.634	113	26242	9.856	ug/l		0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	19.720%#			
50) Toluene-d8	10.109	98	107048	9.816	ug/l		0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	19.640%#			
62) 4-Bromofluorobenzene	12.408	95	34423	9.959	ug/l		0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	19.920%#			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.867	85	31097	11.245	ug/l		99
3) Chloromethane	2.068	50	65589	11.275	ug/l		98
4) Vinyl Chloride	2.202	62	69800	10.739	ug/l		95
5) Bromomethane	2.592	94	54773	10.352	ug/l		99
6) Chloroethane	2.732	64	43122	10.665	ug/l		99
7) Trichlorofluoromethane	3.056	101	68501	10.410	ug/l		99
8) Diethyl Ether	3.458	74	16945	10.730	ug/l		96
9) 1,1,2-Trichlorotrifluo...	3.812	101	30591	10.708	ug/l		99
10) Methyl Iodide	4.007	142	31088	9.402	ug/l		97
11) Tert butyl alcohol	4.878	59	12043	54.446	ug/l	#	100
12) 1,1-Dichloroethene	3.793	96	28831	10.170	ug/l		95
13) Acrolein	3.659	56	17927	55.439	ug/l		96
14) Allyl chloride	4.378	41	51275	10.315	ug/l		99
15) Acrylonitrile	5.061	53	33277	51.139	ug/l		100
16) Acetone	3.879	43	30229	55.657	ug/l		100
17) Carbon Disulfide	4.104	76	96591	10.448	ug/l		97
18) Methyl Acetate	4.385	43	16338	9.886	ug/l		94
19) Methyl tert-butyl Ether	5.116	73	80714	10.326	ug/l		96
20) Methylene Chloride	4.622	84	42991	12.250	ug/l		95
21) trans-1,2-Dichloroethene	5.116	96	32258	10.309	ug/l		98
22) Diisopropyl ether	6.018	45	106493	10.145	ug/l		94
23) Vinyl Acetate	5.964	43	324651	51.192	ug/l		100
24) 1,1-Dichloroethane	5.915	63	60198	10.265	ug/l		97
25) 2-Butanone	6.896	43	48022	52.859	ug/l		98
26) 2,2-Dichloropropane	6.890	77	54264	10.403	ug/l		99
27) cis-1,2-Dichloroethene	6.890	96	36403	10.081	ug/l		98
28) Bromochloromethane	7.244	49	25664	10.259	ug/l		98
29) Tetrahydrofuran	7.274	42	30684	52.498	ug/l		98
30) Chloroform	7.421	83	57172	10.163	ug/l		100
31) Cyclohexane	7.701	56	63155	10.778	ug/l		95
32) 1,1,1-Trichloroethane	7.622	97	52856	10.242	ug/l		99
36) 1,1-Dichloropropene	7.835	75	44817	10.219	ug/l		97
37) Ethyl Acetate	6.994	43	20624	9.774	ug/l		97
38) Carbon Tetrachloride	7.817	117	46772	10.303	ug/l		97
39) Methylcyclohexane	9.109	83	60489	10.266	ug/l		98
40) Benzene	8.079	78	130423	10.032	ug/l		100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022254.D
Acq On : 15 May 2025 10:16
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

Quant Time: May 16 01:21:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:19:39 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.250	41	16228m	10.510	ug/l		
42) 1,2-Dichloroethane	8.158	62	35565	10.115	ug/l		100
43) Isopropyl Acetate	8.201	43	47020	10.217	ug/l		98
44) Trichloroethene	8.865	130	32655	10.101	ug/l		99
45) 1,2-Dichloropropane	9.140	63	32172	10.264	ug/l		93
46) Dibromomethane	9.231	93	17134	10.135	ug/l		99
47) Bromodichloromethane	9.426	83	44045	10.042	ug/l		96
48) Methyl methacrylate	9.225	41	21202	9.851	ug/l		98
49) 1,4-Dioxane	9.231	88	3930	205.769	ug/l	#	75
51) 4-Methyl-2-Pentanone	9.999	43	110396	48.889	ug/l		100
52) Toluene	10.170	92	82453	10.015	ug/l		96
53) t-1,3-Dichloropropene	10.396	75	42158	9.849	ug/l		96
54) cis-1,3-Dichloropropene	9.859	75	48923	9.976	ug/l		96
55) 1,1,2-Trichloroethane	10.572	97	21720	10.033	ug/l		97
56) Ethyl methacrylate	10.438	69	32286	9.574	ug/l		98
57) 1,3-Dichloropropane	10.719	76	38908	10.115	ug/l		98
58) 2-Chloroethyl Vinyl ether	9.713	63	66700	44.066	ug/l		100
59) 2-Hexanone	10.761	43	74432	49.162	ug/l		99
60) Dibromochloromethane	10.914	129	28002	9.965	ug/l		99
61) 1,2-Dibromoethane	11.018	107	20378	10.099	ug/l		99
64) Tetrachloroethene	10.646	164	36274	10.404	ug/l		99
65) Chlorobenzene	11.444	112	83730	9.839	ug/l		97
66) 1,1,1,2-Tetrachloroethane	11.517	131	28441	9.721	ug/l		97
67) Ethyl Benzene	11.517	91	154155	9.672	ug/l		97
68) m/p-Xylenes	11.627	106	116113	19.334	ug/l		99
69) o-Xylene	11.956	106	55896	9.837	ug/l		96
70) Styrene	11.969	104	91569	9.553	ug/l		99
71) Bromoform	12.133	173	16151	10.228	ug/l	#	95
73) Isopropylbenzene	12.255	105	144186	10.120	ug/l		99
74) N-amyl acetate	12.072	43	40345	9.901	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.505	83	22243	10.152	ug/l		96
76) 1,2,3-Trichloropropane	12.560	75	16056m	5.297	ug/l		
77) Bromobenzene	12.536	156	30445	10.005	ug/l		99
78) n-propylbenzene	12.597	91	173575	10.101	ug/l		100
79) 2-Chlorotoluene	12.682	91	95815	10.146	ug/l		100
80) 1,3,5-Trimethylbenzene	12.737	105	116461	10.126	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.304	75	8934	10.388	ug/l		94
82) 4-Chlorotoluene	12.779	91	97309	10.018	ug/l		99
83) tert-Butylbenzene	12.999	119	102274	10.005	ug/l		99
84) 1,2,4-Trimethylbenzene	13.042	105	115175	10.088	ug/l		99
85) sec-Butylbenzene	13.176	105	153443	10.112	ug/l		100
86) p-Isopropyltoluene	13.291	119	124147	9.728	ug/l		100
87) 1,3-Dichlorobenzene	13.285	146	61011	9.822	ug/l		98
88) 1,4-Dichlorobenzene	13.365	146	60723	10.163	ug/l		97
89) n-Butylbenzene	13.621	91	120371	9.970	ug/l		99
90) Hexachloroethane	13.883	117	26089	10.127	ug/l		97
91) 1,2-Dichlorobenzene	13.663	146	52282	10.020	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	3588	10.155	ug/l		99
93) 1,2,4-Trichlorobenzene	14.925	180	29073	9.646	ug/l		99
94) Hexachlorobutadiene	15.023	225	16686	9.927	ug/l		98
95) Naphthalene	15.145	128	54307	9.495	ug/l		99
96) 1,2,3-Trichlorobenzene	15.328	180	24790	9.696	ug/l		98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022254.D
Acq On : 15 May 2025 10:16
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

Quant Time: May 16 01:21:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:19:39 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

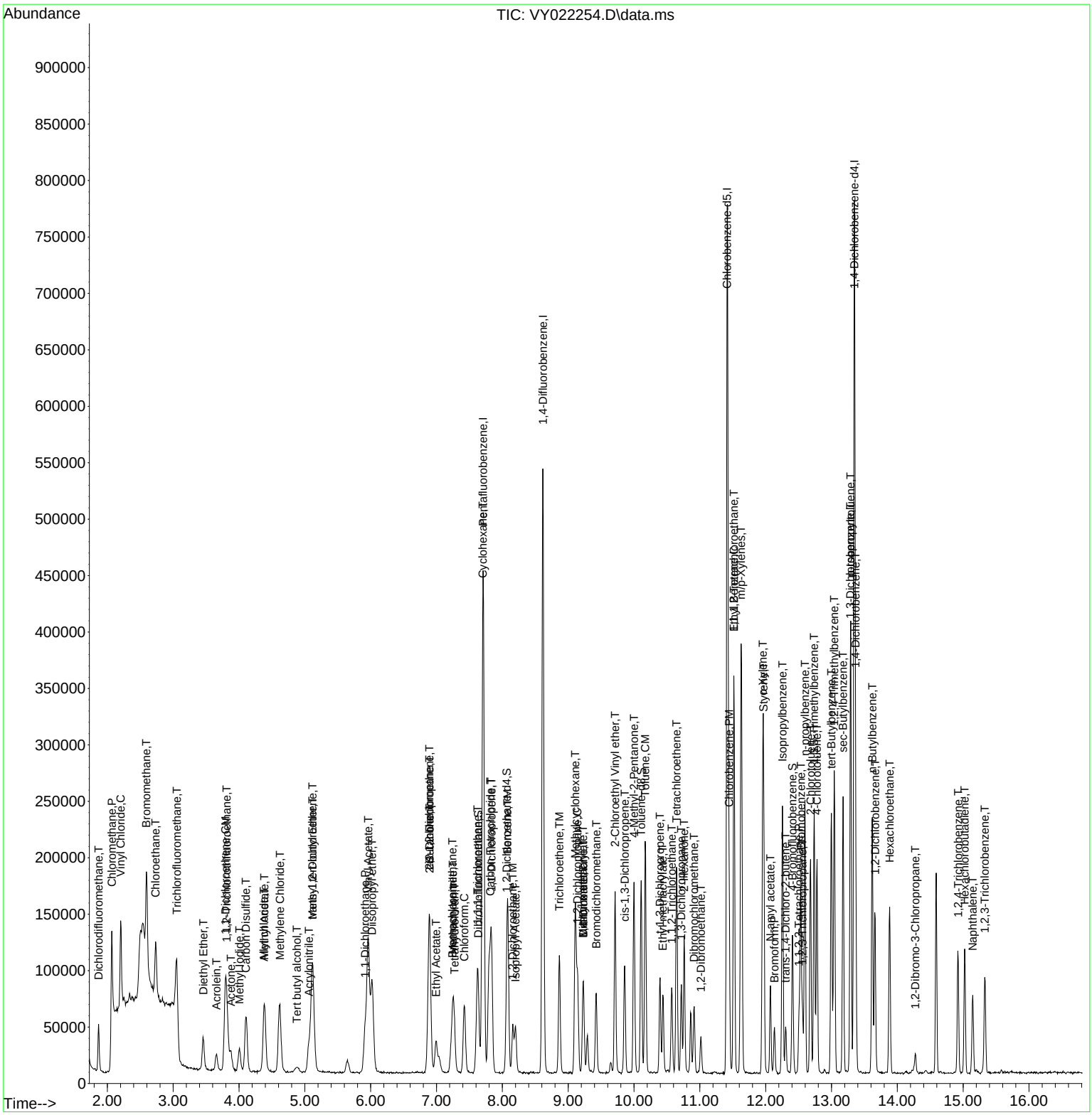
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022254.D
Acq On : 15 May 2025 10:16
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

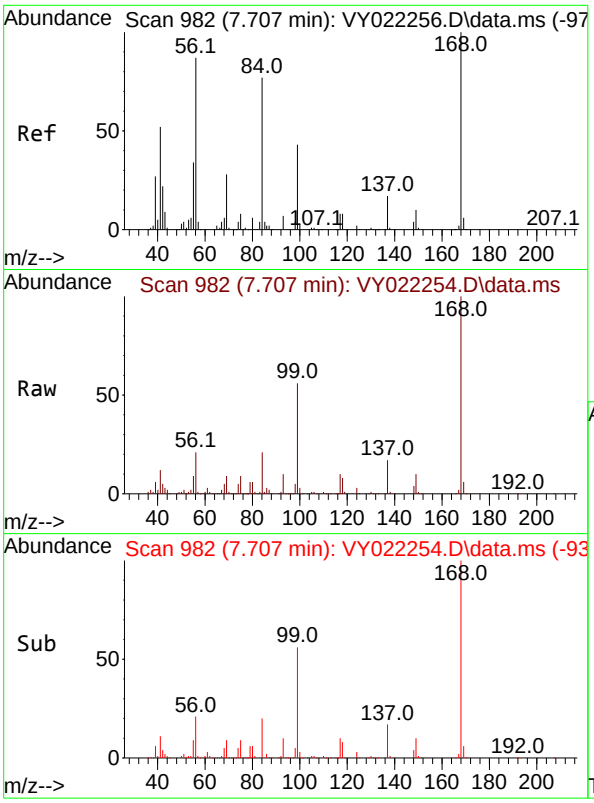
Quant Time: May 16 01:21:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:19:39 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

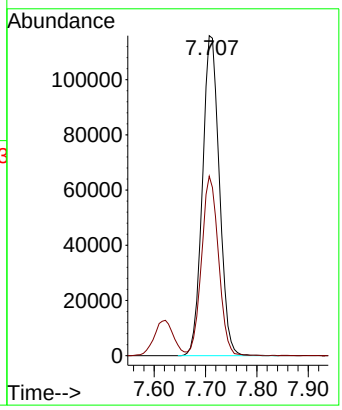




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion:168 Resp: 26503

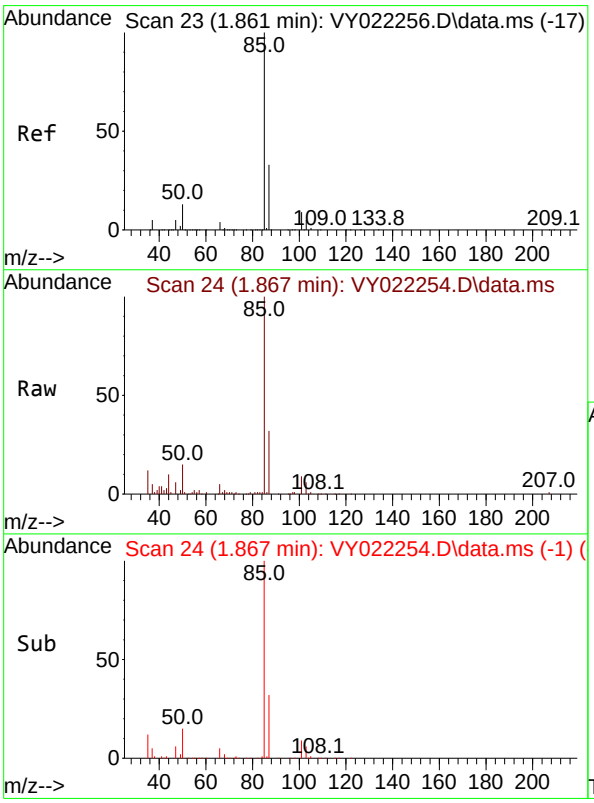
Ion	Ratio	Lower	Upper
168	100		
99	56.1	44.2	66.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

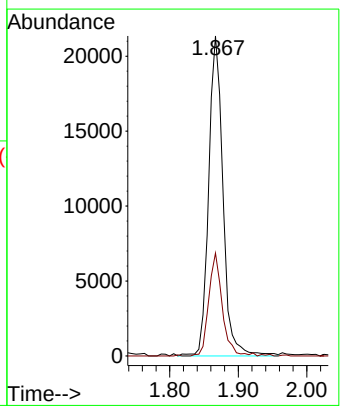
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

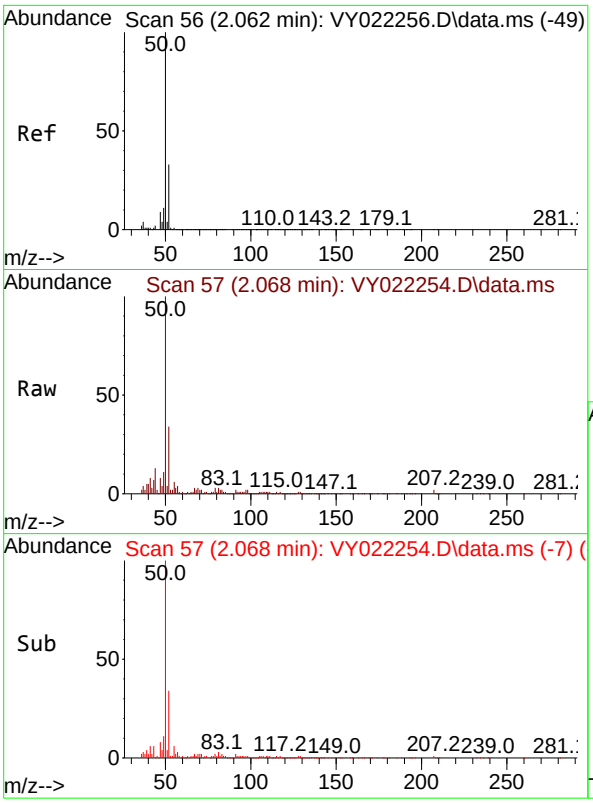


#2
Dichlorodifluoromethane
Concen: 11.245 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 85 Resp: 31097

Ion	Ratio	Lower	Upper
85	100		
87	32.2	16.5	49.5

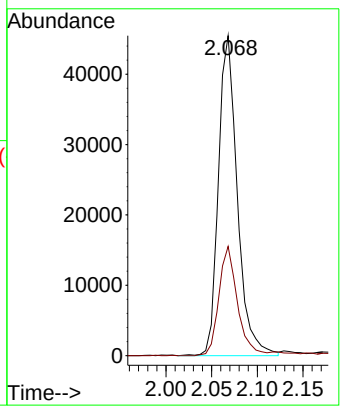




#3
Chloromethane
Concen: 11.275 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 50 Resp: 6558

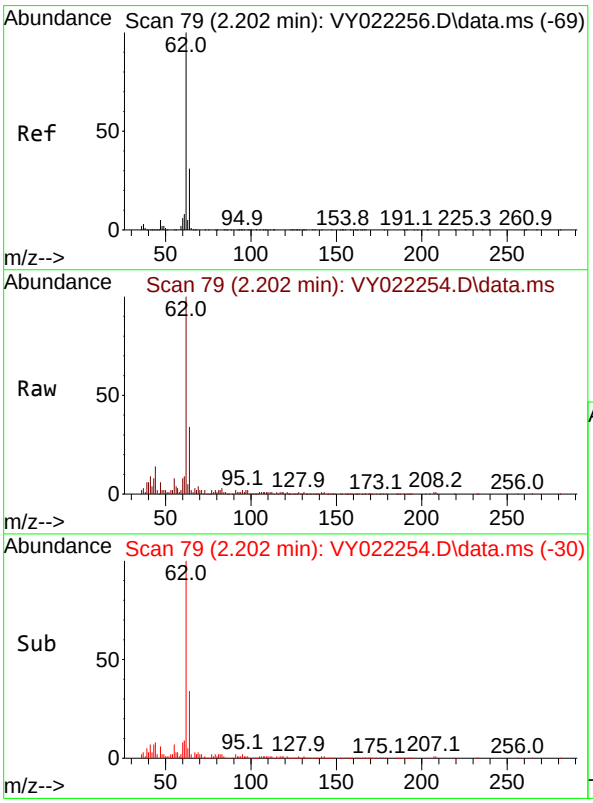
Ion	Ratio	Lower	Upper
50	100		
52	34.1	26.5	39.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

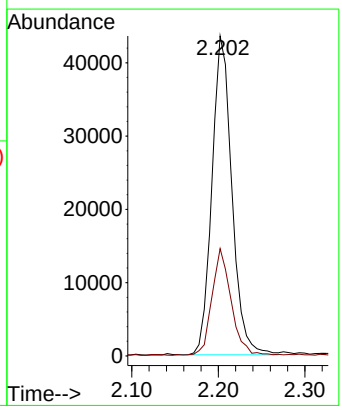
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

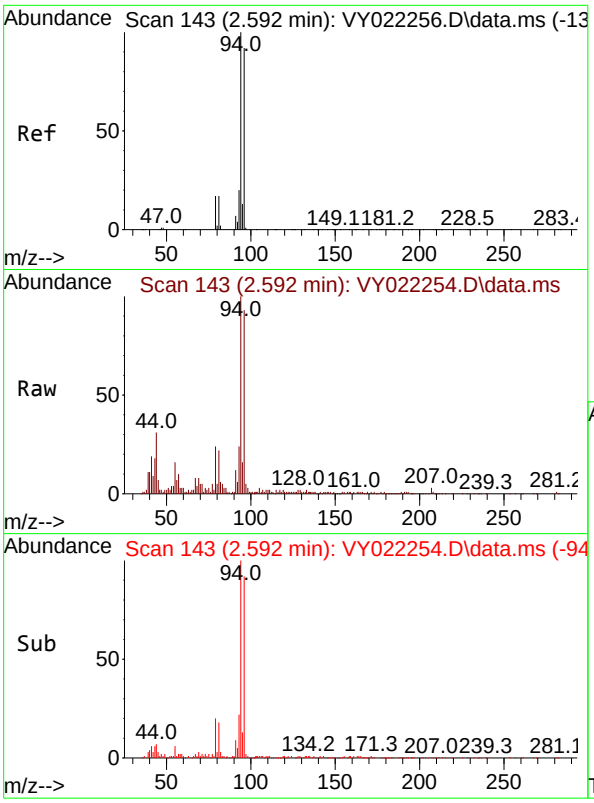


#4
Vinyl Chloride
Concen: 10.739 ug/l
RT: 2.202 min Scan# 79
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 62 Resp: 69800

Ion	Ratio	Lower	Upper
62	100		
64	33.2	24.5	36.7

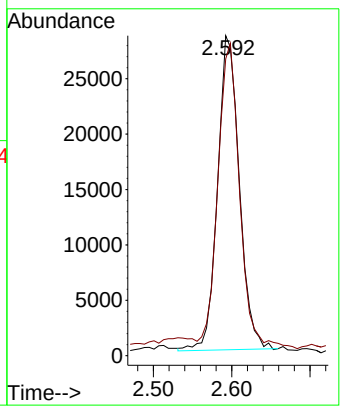




#5
Bromomethane
Concen: 10.352 ug/l
RT: 2.592 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 94 Resp: 5477

Ion	Ratio	Lower	Upper
94	100		
96	90.9	73.4	110.0



Instrument :
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ClientSampleId :
VSTDICC010

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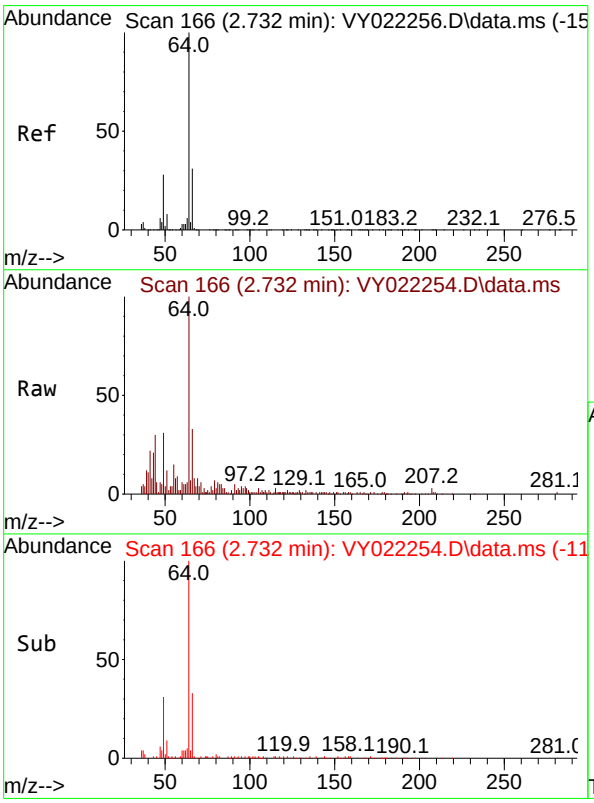
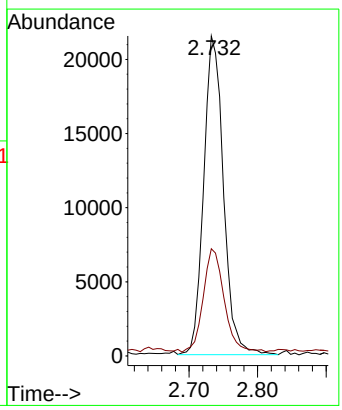
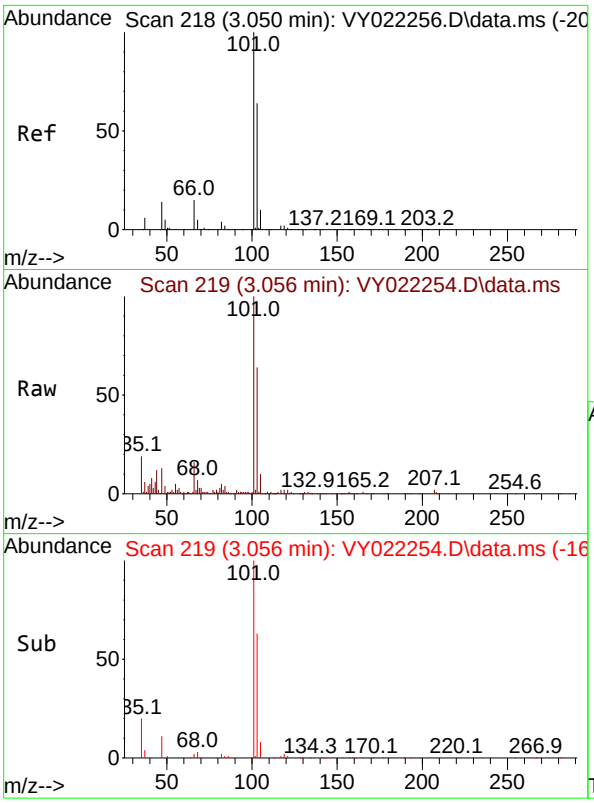


#6
Chloroethane
Concen: 10.665 ug/l
RT: 2.732 min Scan# 166
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 64 Resp: 43122

Ion	Ratio	Lower	Upper
64	100		
66	31.6	24.8	37.2

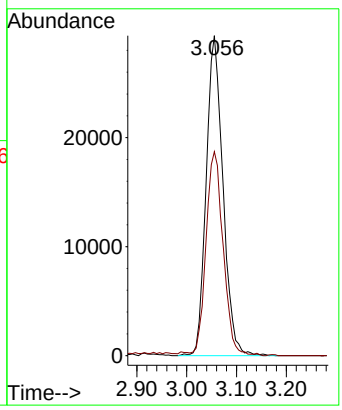




#7
Trichlorofluoromethane
Concen: 10.410 ug/l
RT: 3.056 min Scan# 21
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion:101 Resp: 6850

Ion	Ratio	Lower	Upper
101	100		
103	63.8	51.7	77.5



Instrument :
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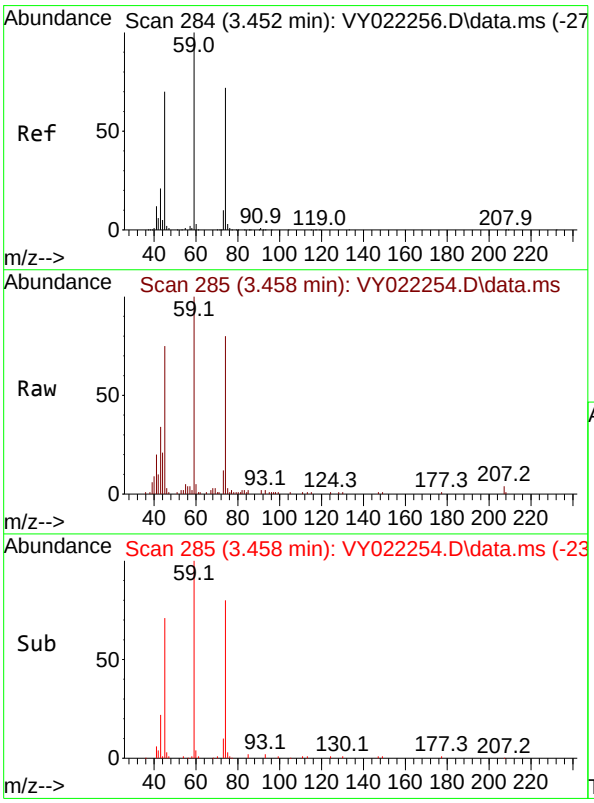
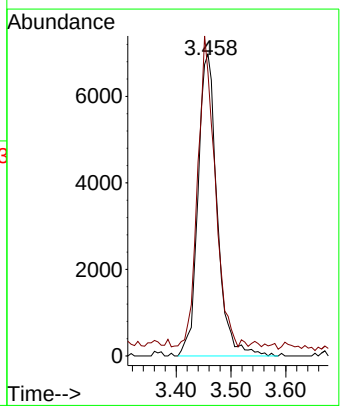
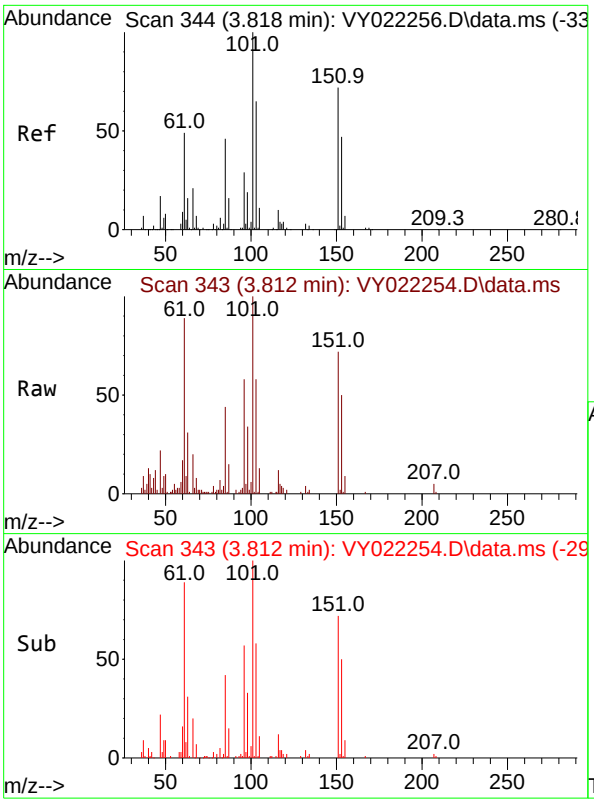


#8
Diethyl Ether
Concen: 10.730 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 74 Resp: 16945

Ion	Ratio	Lower	Upper
74	100		
45	93.2	48.6	145.8





#9
1,1,2-Trichlorotrifluoroethane
Concen: 10.708 ug/l
RT: 3.812 min Scan# 34
Delta R.T. -0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion:101 Resp: 3059

Ion	Ratio	Lower	Upper
101	100		
85	47.5	38.6	58.0
151	75.6	59.7	89.5

Instrument :
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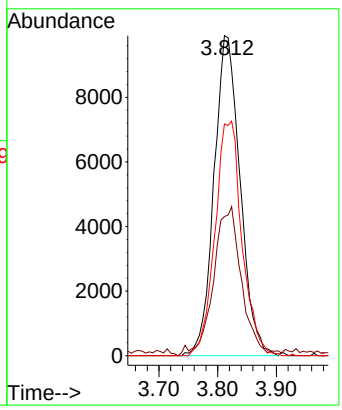
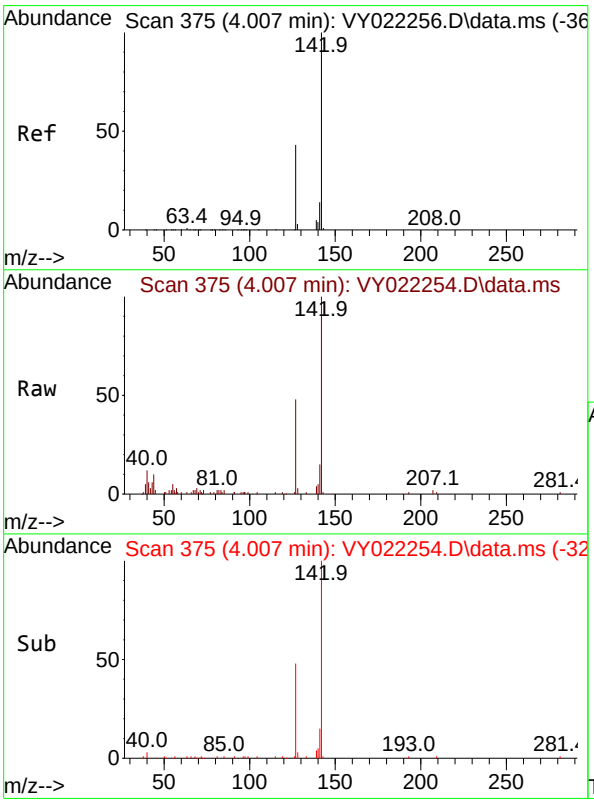
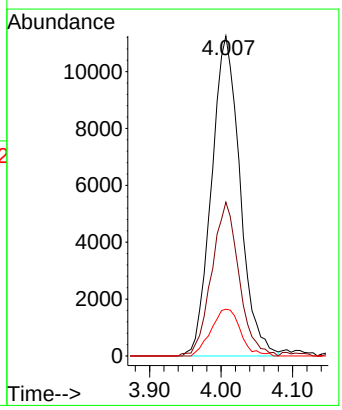


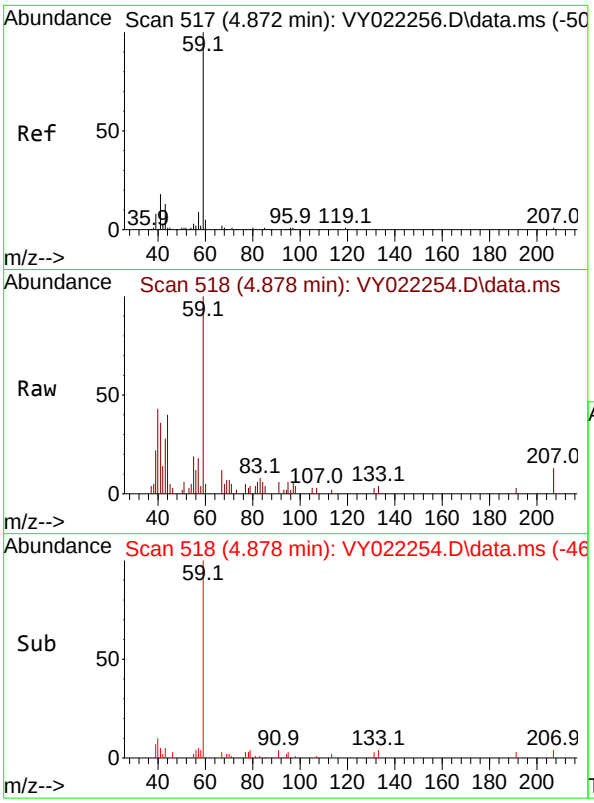


#10
Methyl Iodide
Concen: 9.402 ug/l
RT: 4.007 min Scan# 375
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion:142 Resp: 31088

Ion	Ratio	Lower	Upper
142	100		
127	46.2	35.7	53.5
141	15.1	11.1	16.7

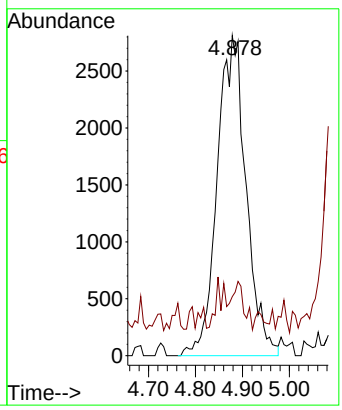




#11
Tert butyl alcohol
Concen: 54.446 ug/l
RT: 4.878 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 59 Resp: 1204

Ion	Ratio	Lower	Upper
59	100		
57	5.7	0.0	0.0



Instrument :
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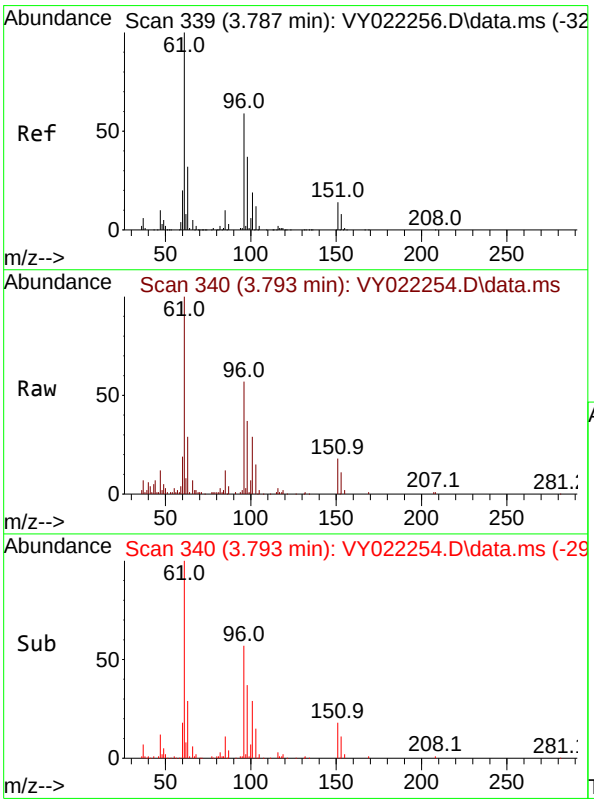
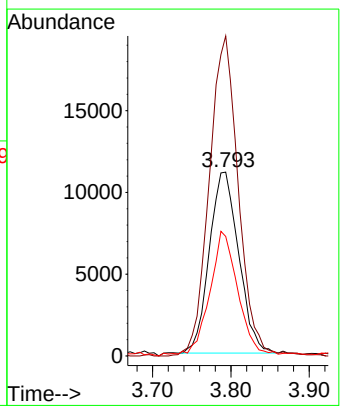
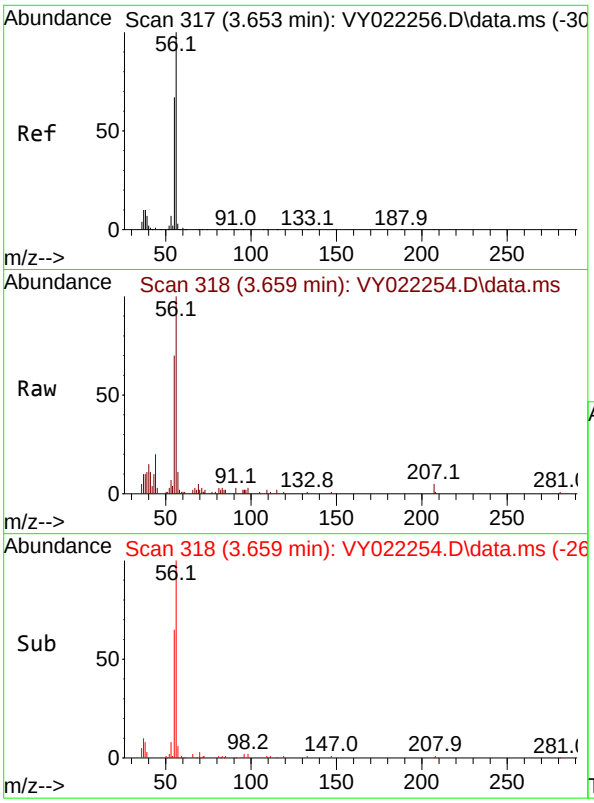


#12
1,1-Dichloroethene
Concen: 10.170 ug/l
RT: 3.793 min Scan# 340
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 96 Resp: 28831

Ion	Ratio	Lower	Upper
96	100		
61	176.2	134.9	202.3
98	65.1	49.9	74.9

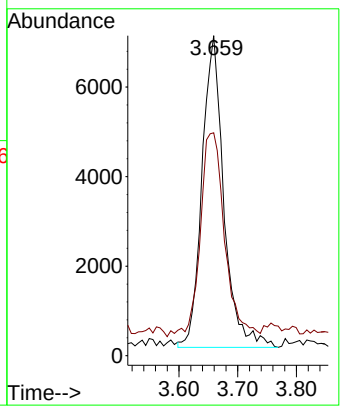




#13
Acrolein
Concen: 55.439 ug/l
RT: 3.659 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 56 Resp: 1792

Ion	Ratio	Lower	Upper
56	100		
55	73.0	55.6	83.4



Instrument :
MSVOA_Y
ClientSampleId :
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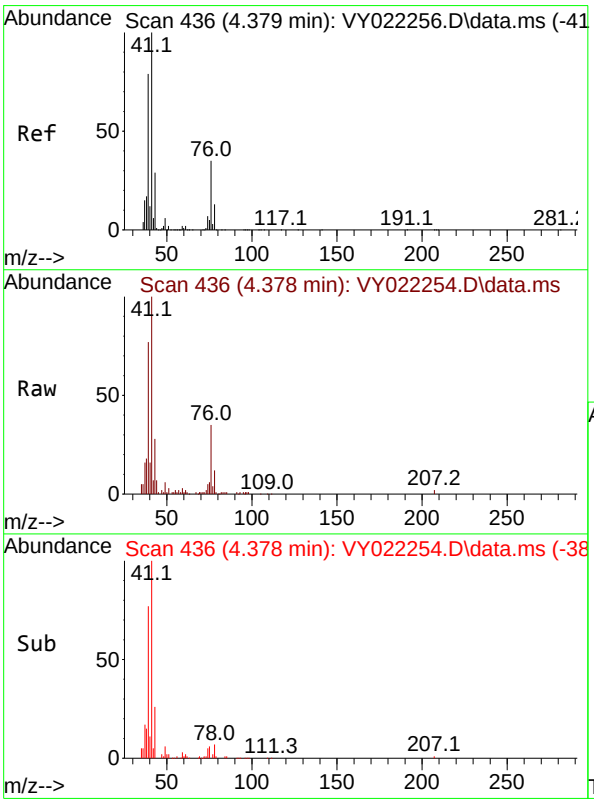
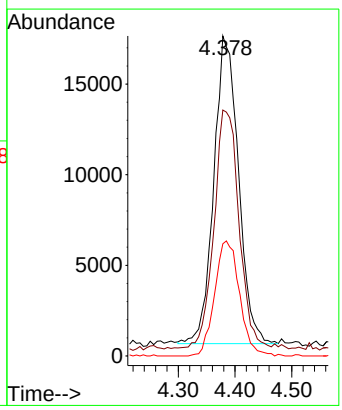
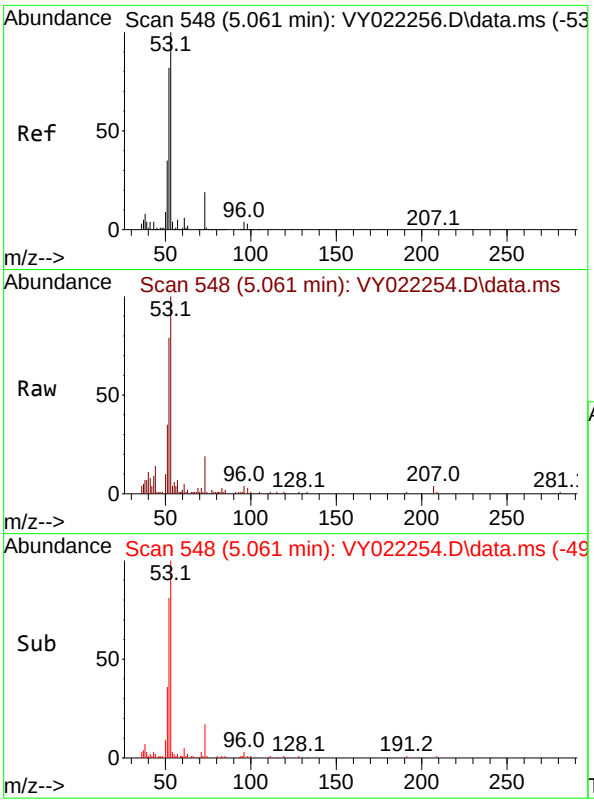


#14
Allyl chloride
Concen: 10.315 ug/l
RT: 4.378 min Scan# 436
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 41 Resp: 51275

Ion	Ratio	Lower	Upper
41	100		
39	79.2	63.4	95.0
76	37.8	29.5	44.3

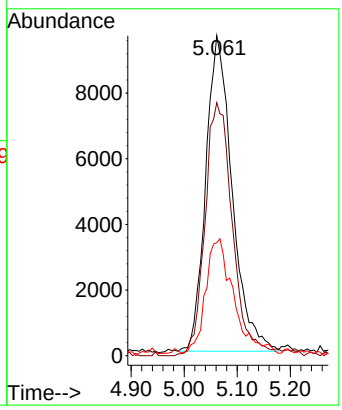




#15
Acrylonitrile
Concen: 51.139 ug/l
RT: 5.061 min Scan# 54
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 53 Resp: 3327

Ion	Ratio	Lower	Upper
53	100		
52	82.7	66.1	99.1
51	38.2	30.0	45.0



Instrument :
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ClientSampleId :
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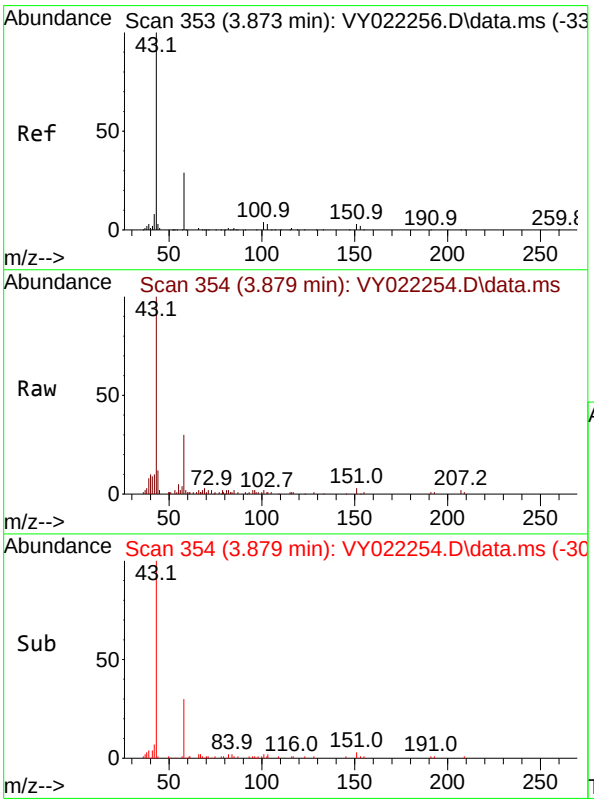
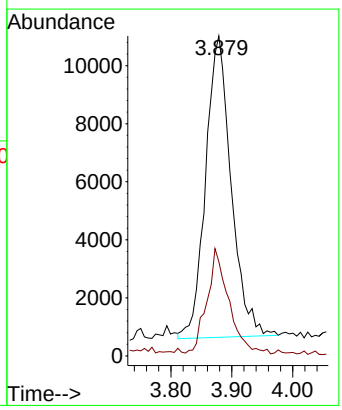
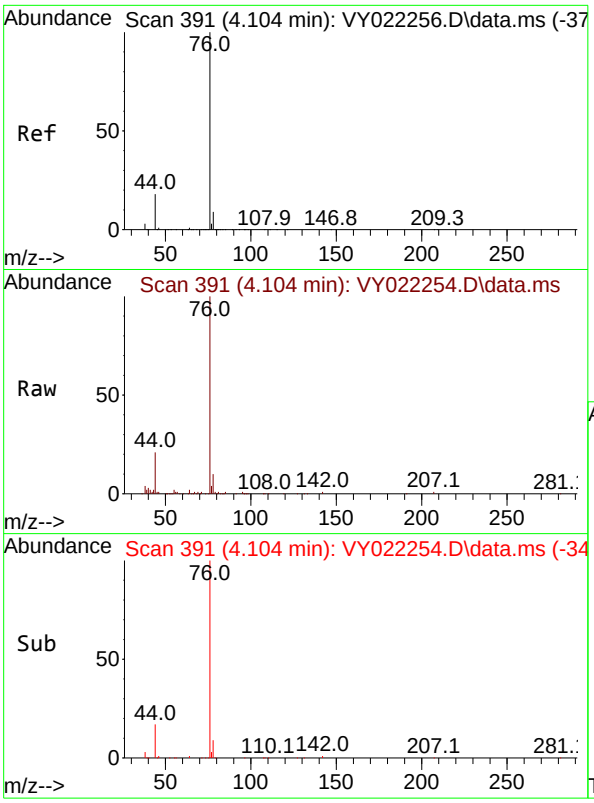


#16
Acetone
Concen: 55.657 ug/l
RT: 3.879 min Scan# 354
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 43 Resp: 30229

Ion	Ratio	Lower	Upper
43	100		
58	29.5	23.6	35.4





#17
Carbon Disulfide
Concen: 10.448 ug/l
RT: 4.104 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 76 Resp: 9659

Ion	Ratio	Lower	Upper
76	100		
78	9.9	7.2	10.8

Instrument :
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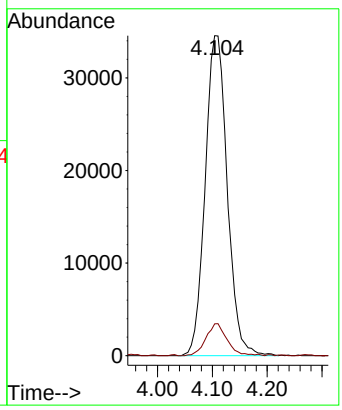
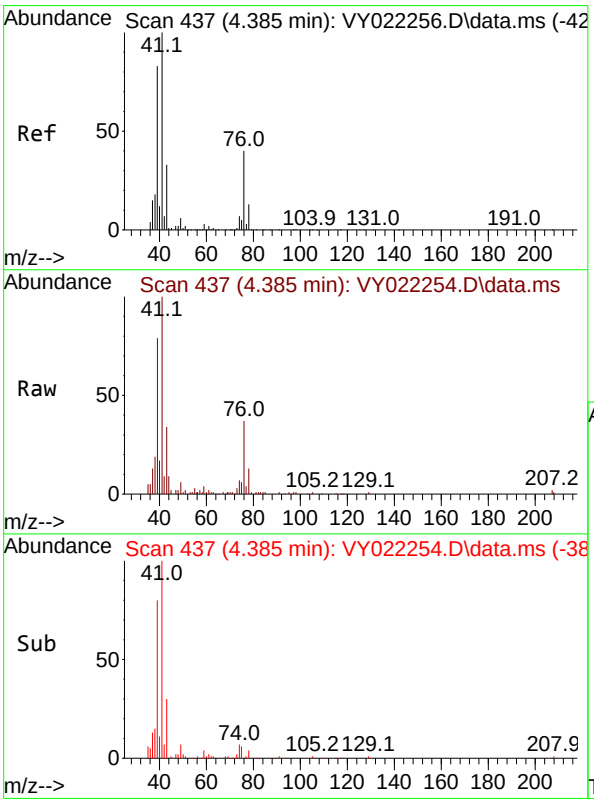
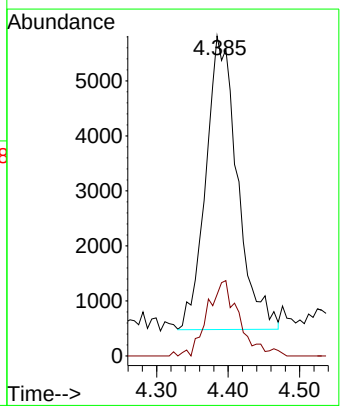


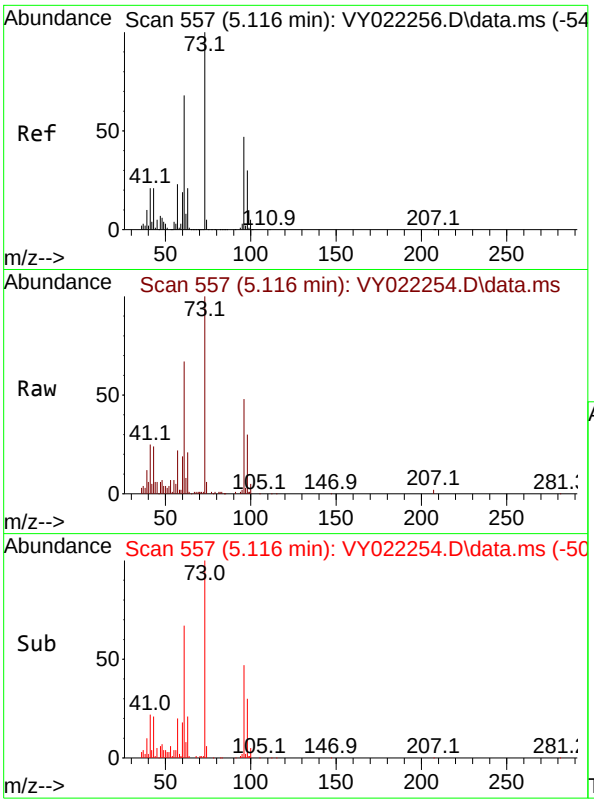


#18
Methyl Acetate
Concen: 9.886 ug/l
RT: 4.385 min Scan# 437
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 43 Resp: 16338

Ion	Ratio	Lower	Upper
43	100		
74	25.6	18.2	27.4





#19
Methyl tert-butyl Ether
Concen: 10.326 ug/l
RT: 5.116 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 73 Resp: 8071

Ion	Ratio	Lower	Upper
73	100		
57	21.3	18.6	28.0

Instrument :
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ClientSampleId :
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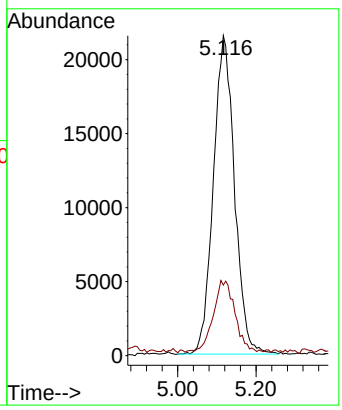
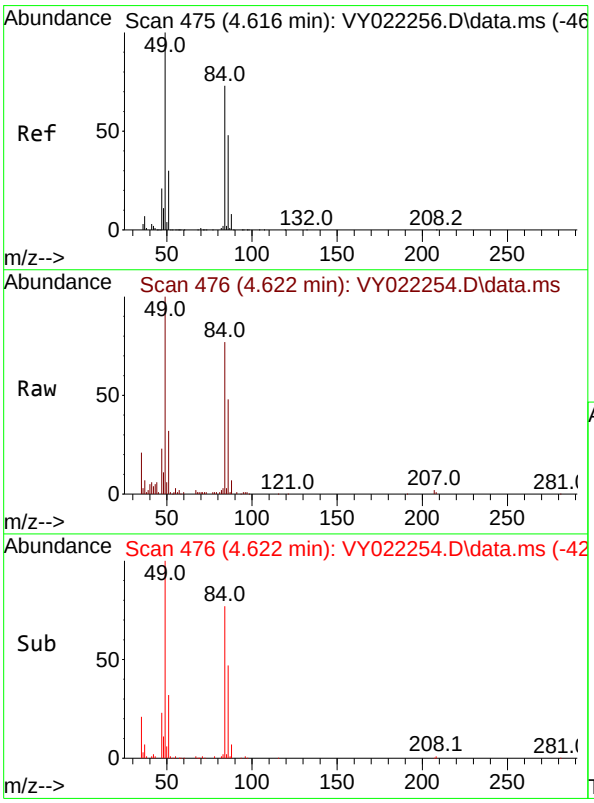
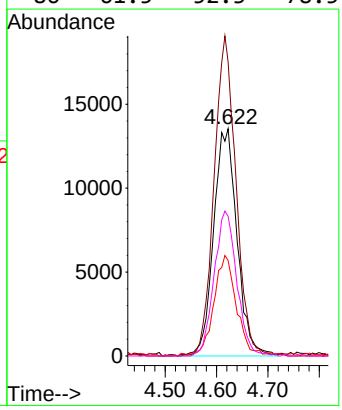


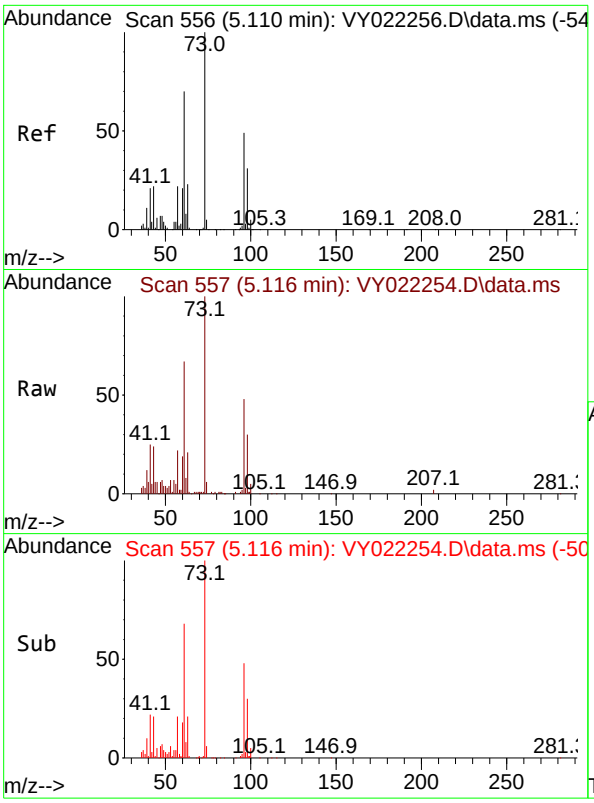


#20
Methylene Chloride
Concen: 12.250 ug/l
RT: 4.622 min Scan# 476
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 84 Resp: 42991

Ion	Ratio	Lower	Upper
84	100		
49	129.4	109.6	164.4
51	42.0	32.4	48.6
86	61.5	52.3	78.5

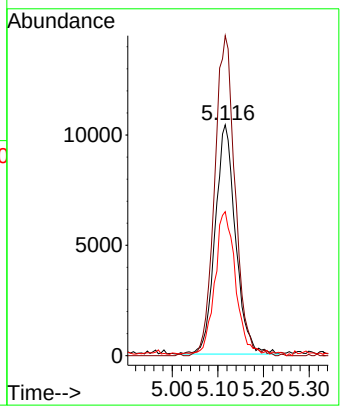




#21
trans-1,2-Dichloroethene
Concen: 10.309 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 96 Resp: 3225

Ion	Ratio	Lower	Upper
96	100		
61	139.6	113.4	170.0
98	62.0	50.9	76.3



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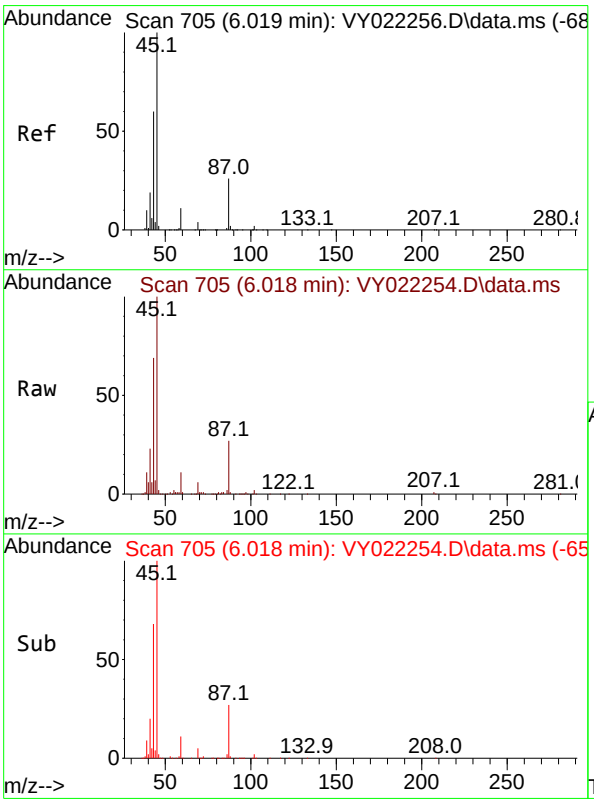
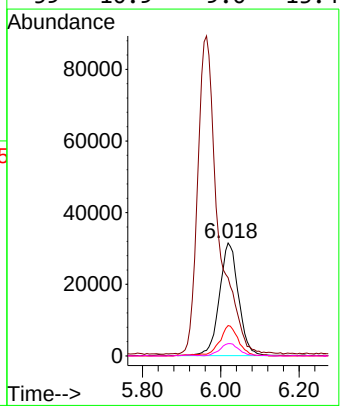
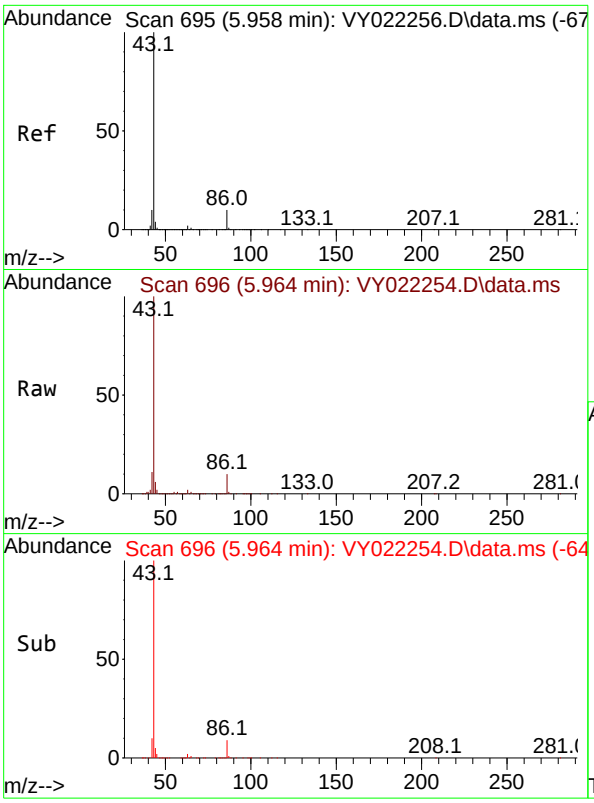


#22
Diisopropyl ether
Concen: 10.145 ug/l
RT: 6.018 min Scan# 705
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 45 Resp: 106493

Ion	Ratio	Lower	Upper
45	100		
43	67.7	48.2	72.2
87	26.8	21.4	32.0
59	10.9	9.0	13.4

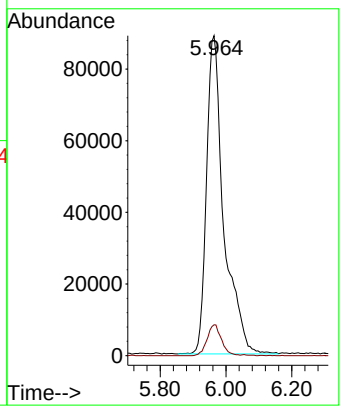




#23
Vinyl Acetate
Concen: 51.192 ug/l
RT: 5.964 min Scan# 6
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 43 Resp: 32465

Ion	Ratio	Lower	Upper
43	100		
86	9.7	7.8	11.8



Instrument :
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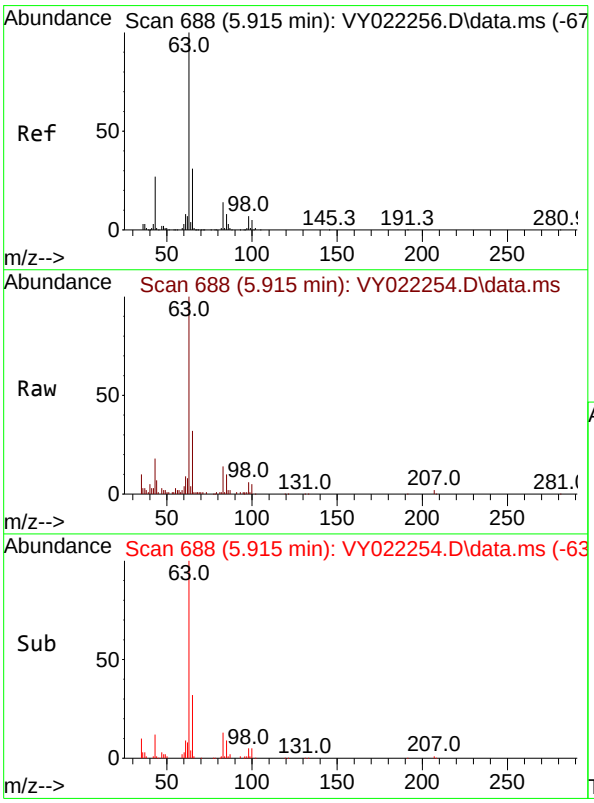
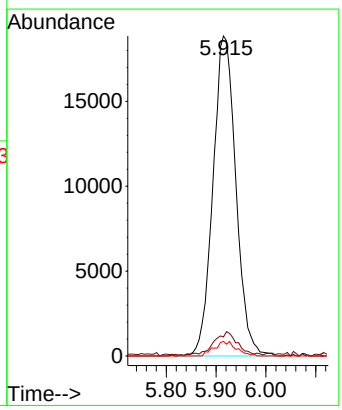
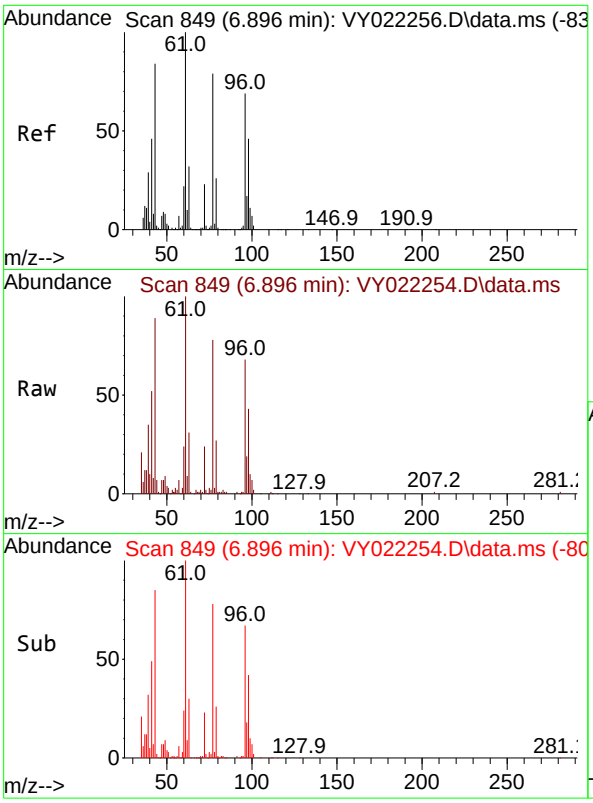


#24
1,1-Dichloroethane
Concen: 10.265 ug/l
RT: 5.915 min Scan# 688
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 63 Resp: 60198

Ion	Ratio	Lower	Upper
63	100		
98	5.6	3.5	10.5
100	4.6	2.4	7.2





#25
2-Butanone
Concen: 52.859 ug/l
RT: 6.896 min Scan# 84
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 43 Resp: 4802

Ion	Ratio	Lower	Upper
43	100		
72	26.7	22.1	33.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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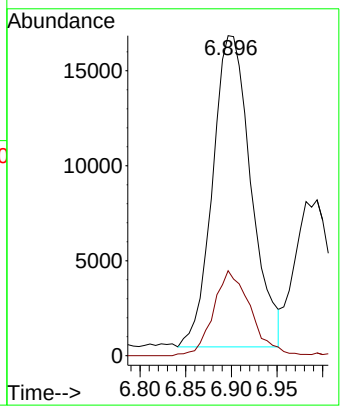
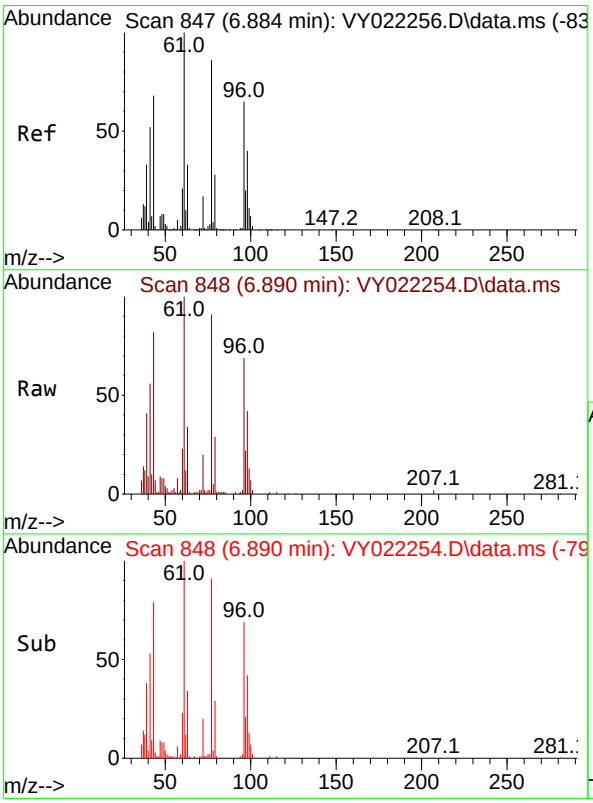
Supervised By :Semsettin Yesilyurt 05/16/2025

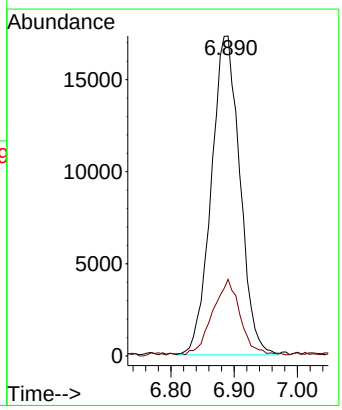


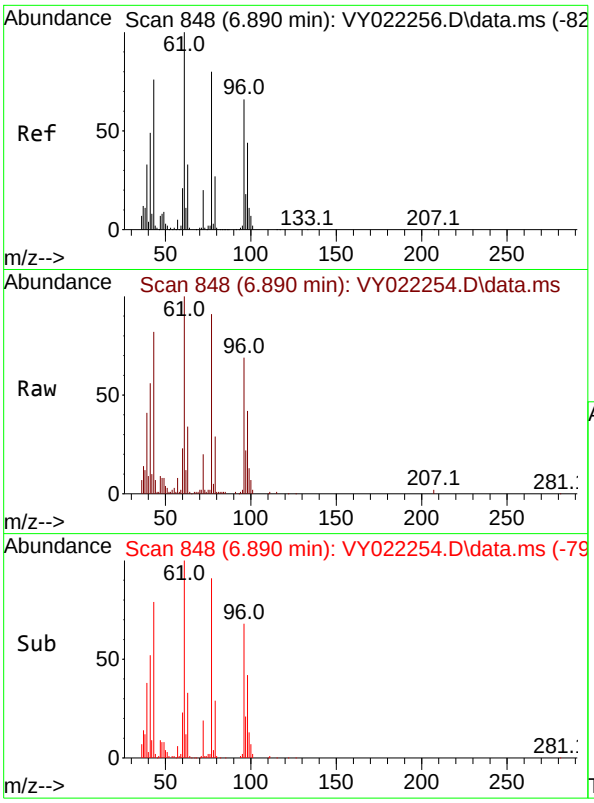


#26
2,2-Dichloropropane
Concen: 10.403 ug/l
RT: 6.890 min Scan# 848
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 77 Resp: 54264

Ion	Ratio	Lower	Upper
77	100		
97	22.9	11.2	33.5

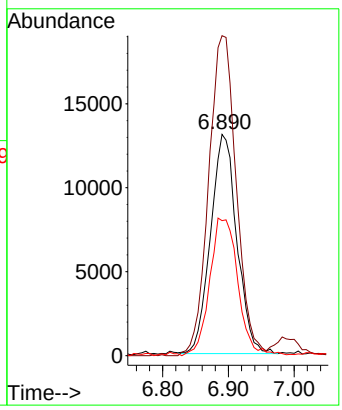




#27
cis-1,2-Dichloroethene
Concen: 10.081 ug/l
RT: 6.890 min Scan# 84
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 96 Resp: 3640

Ion	Ratio	Lower	Upper
96	100		
61	152.8	0.0	302.6
98	67.2	0.0	128.8



Instrument :
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ClientSampleId :
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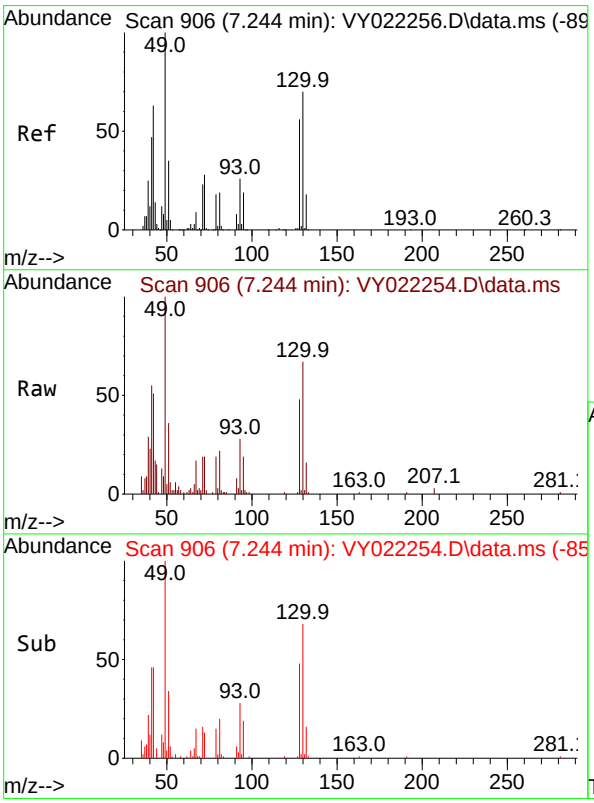
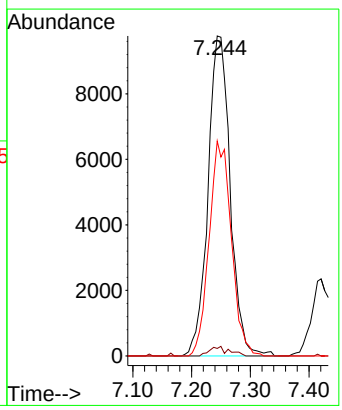
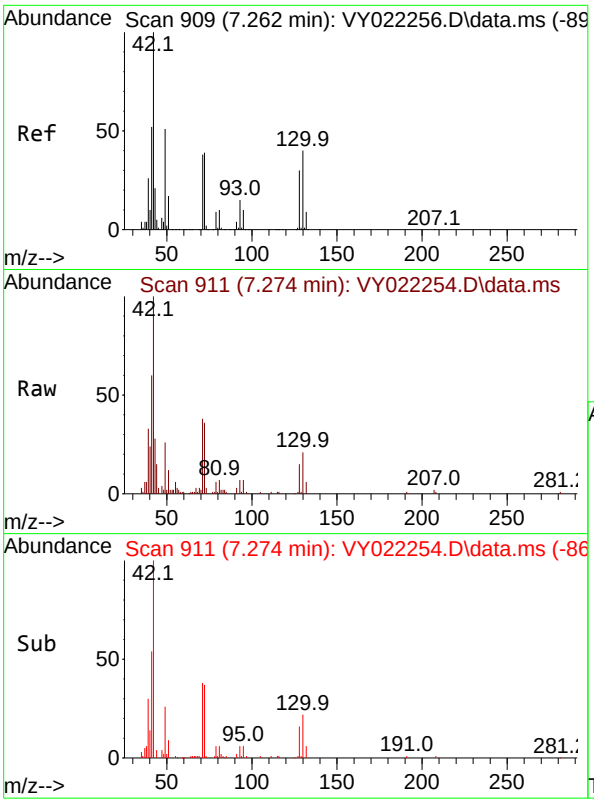


#28
Bromochloromethane
Concen: 10.259 ug/l
RT: 7.244 min Scan# 906
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 49 Resp: 25664

Ion	Ratio	Lower	Upper
49	100		
129	2.6	0.0	3.6
130	67.2	54.7	82.1

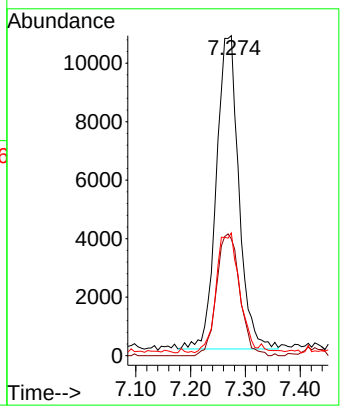




#29
Tetrahydrofuran
Concen: 52.498 ug/l
RT: 7.274 min Scan# 91
Delta R.T. 0.012 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 42 Resp: 3068

Ion	Ratio	Lower	Upper
42	100		
72	39.9	33.8	50.6
71	39.0	31.5	47.3



Instrument :
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ClientSampleId :
VSTDICC010

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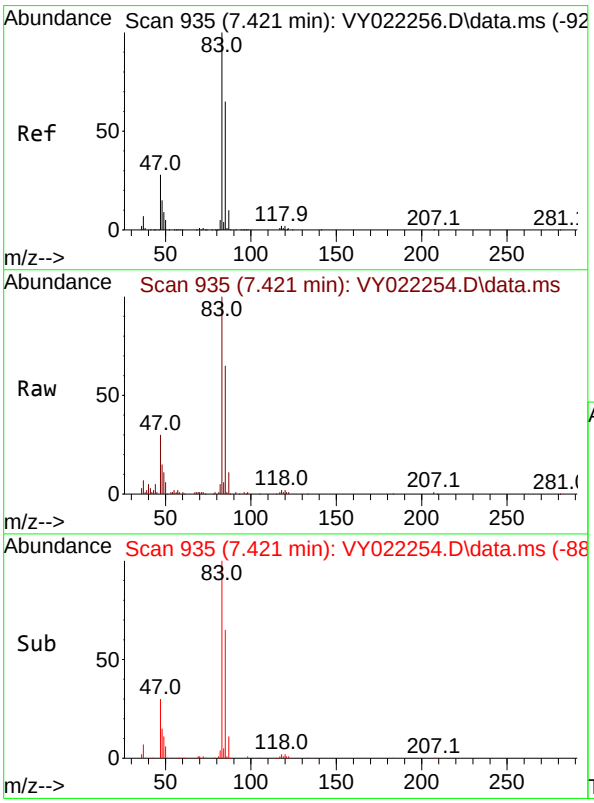
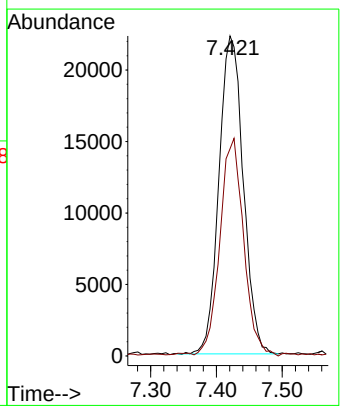
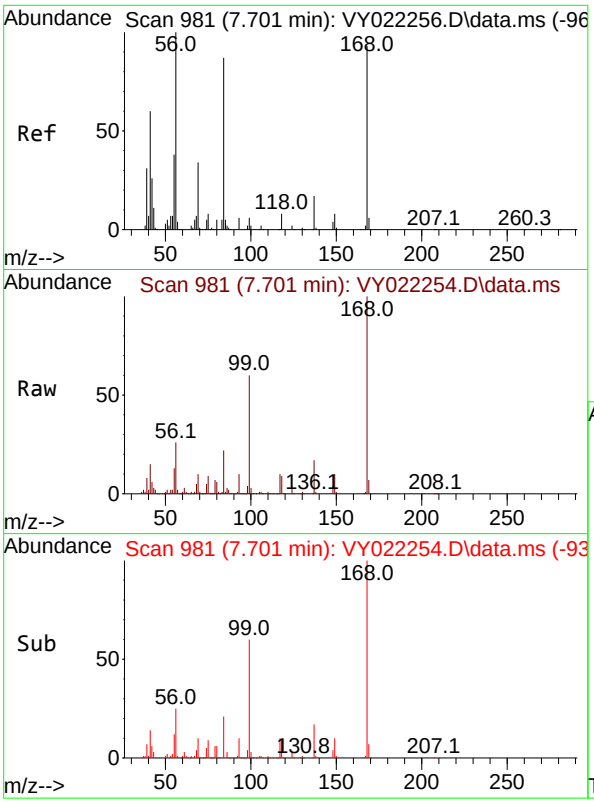


#30
Chloroform
Concen: 10.163 ug/l
RT: 7.421 min Scan# 935
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 83 Resp: 57172

Ion	Ratio	Lower	Upper
83	100		
85	65.2	51.8	77.8





#31
Cyclohexane
Concen: 10.778 ug/l
RT: 7.701 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 56 Resp: 6315

Ion	Ratio	Lower	Upper
56	100		
69	39.9	27.4	41.2
84	84.7	70.0	105.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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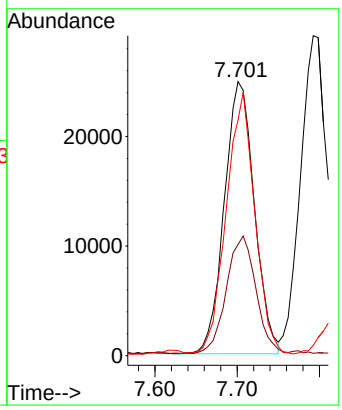
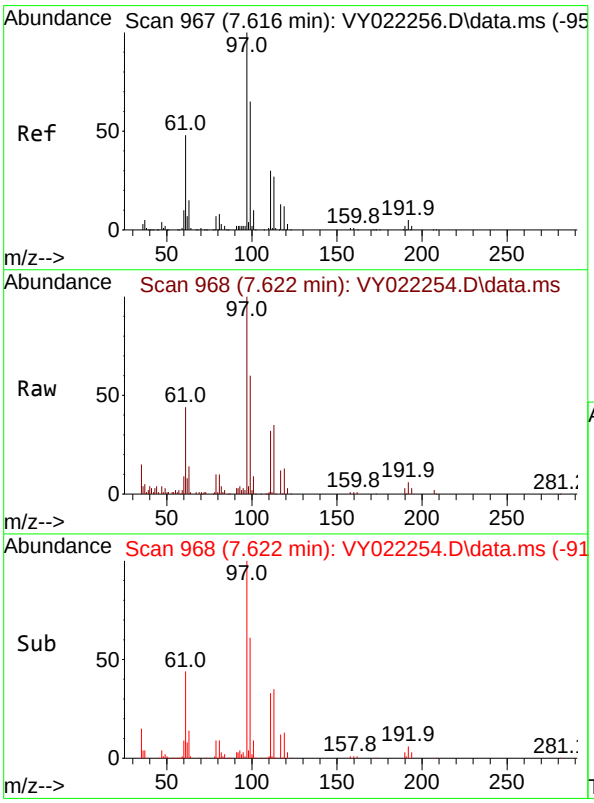
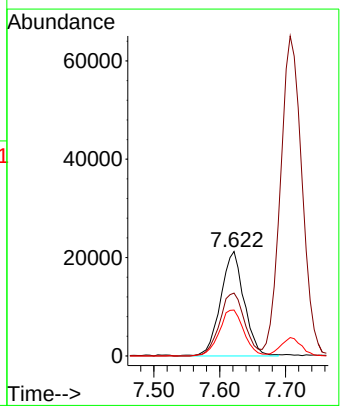


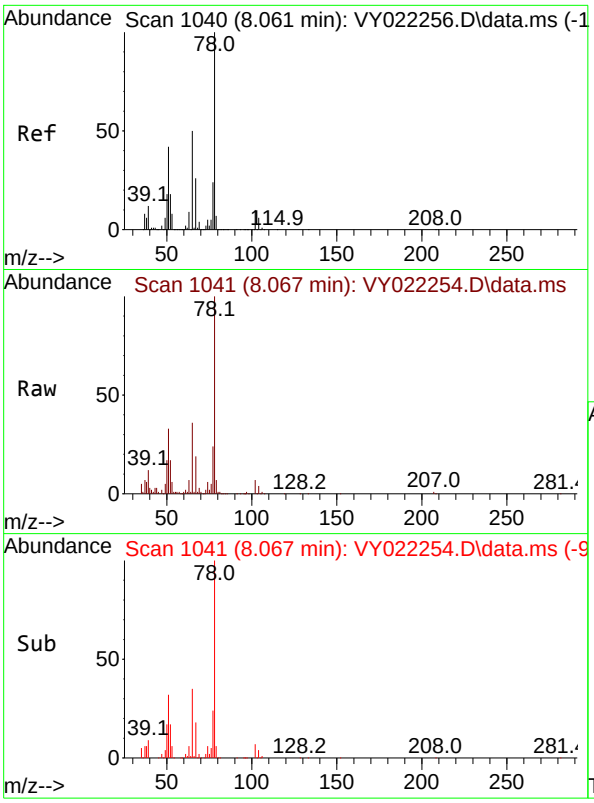


#32
1,1,1-Trichloroethane
Concen: 10.242 ug/l
RT: 7.622 min Scan# 968
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 97 Resp: 52856

Ion	Ratio	Lower	Upper
97	100		
99	64.5	51.4	77.0
61	46.0	38.1	57.1





#33
1,2-Dichloroethane-d4
Concen: 10.222 ug/l
RT: 8.067 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 65 Resp: 2960

Ion	Ratio	Lower	Upper
65	100		
67	52.9	0.0	104.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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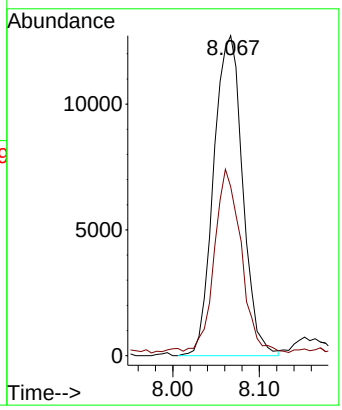
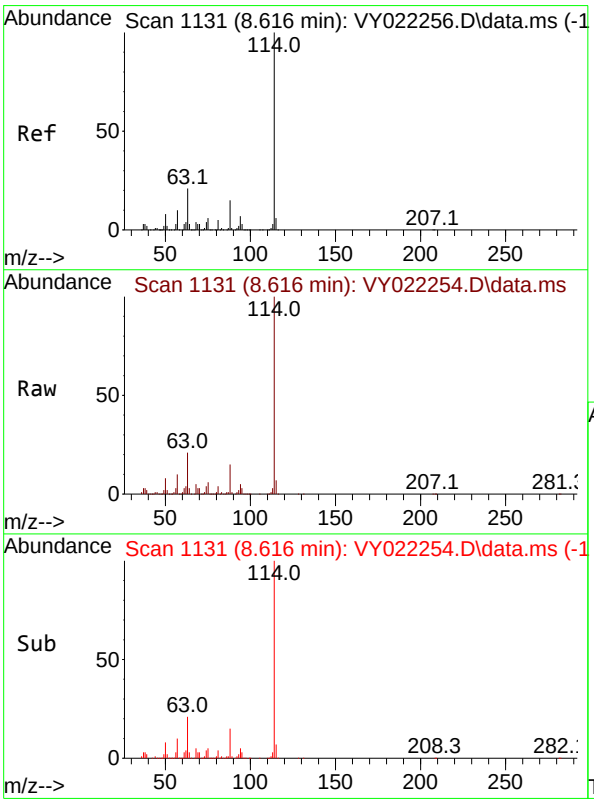
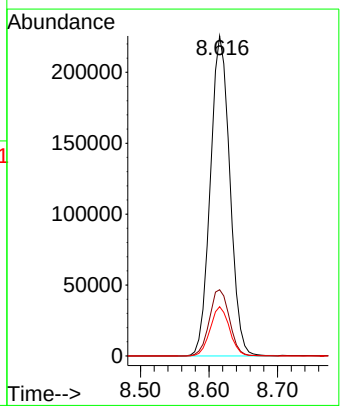


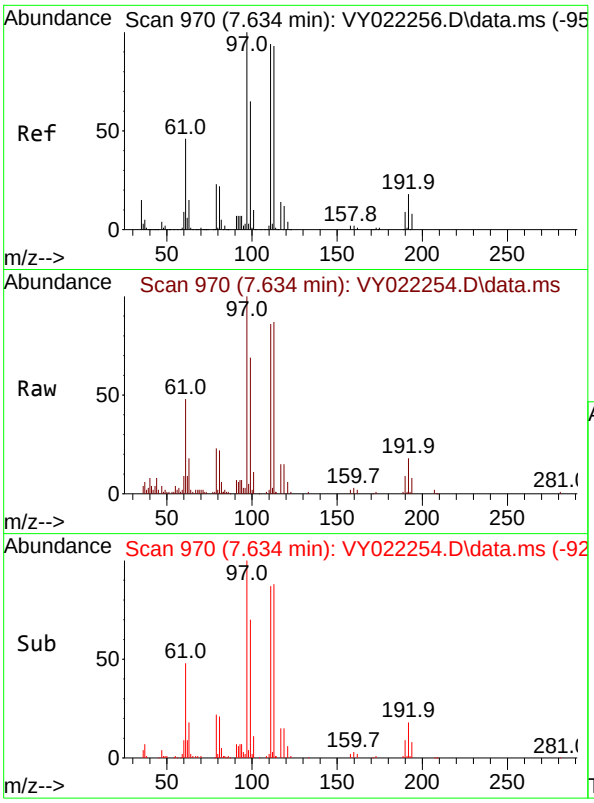


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion:114 Resp: 446109

Ion	Ratio	Lower	Upper
114	100		
63	20.7	0.0	41.0
88	15.4	0.0	29.4

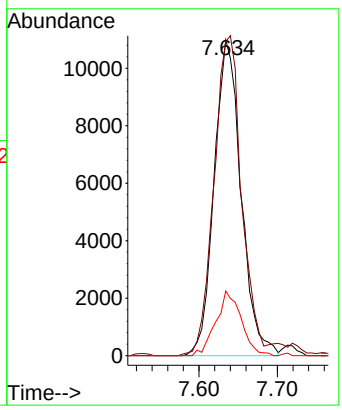




#35
Dibromofluoromethane
Concen: 9.856 ug/l
RT: 7.634 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion:113 Resp: 2624

Ion	Ratio	Lower	Upper
113	100		
111	103.6	82.6	123.8
192	19.3	15.2	22.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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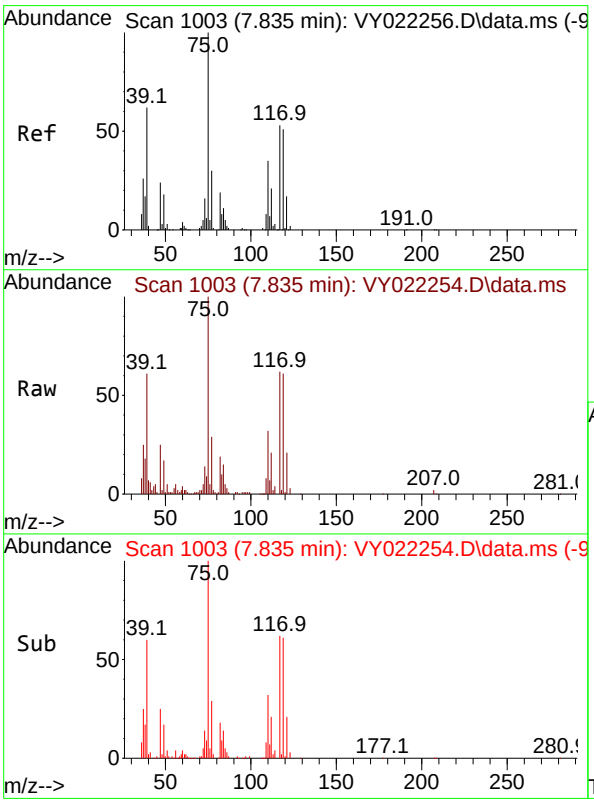
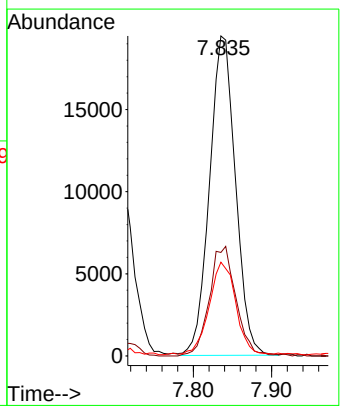
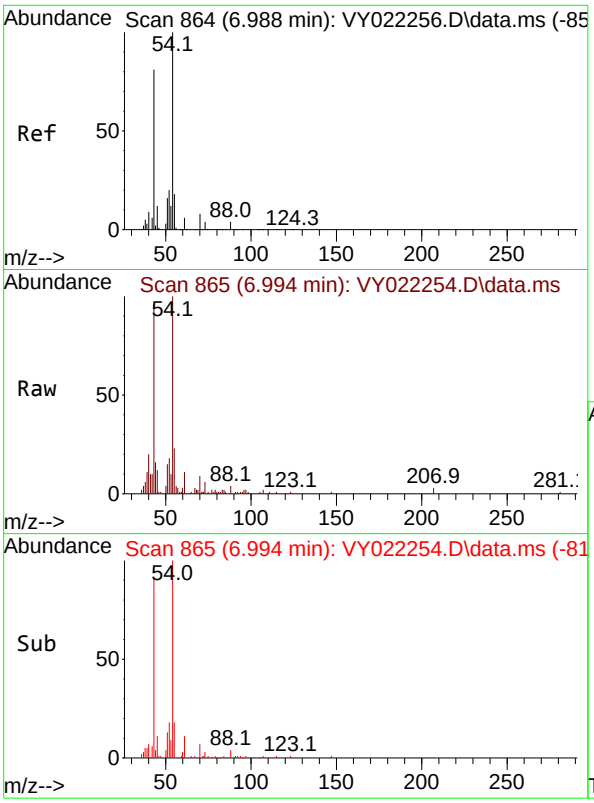


#36
1,1-Dichloropropene
Concen: 10.219 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 75 Resp: 44817

Ion	Ratio	Lower	Upper
75	100		
110	35.1	16.6	49.8
77	29.8	24.6	37.0

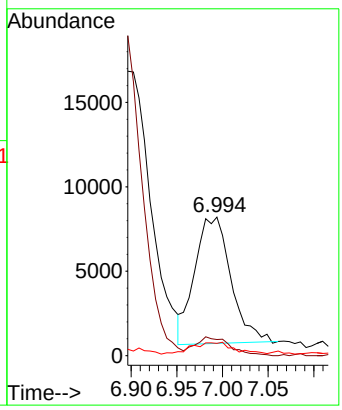




#37
Ethyl Acetate
Concen: 9.774 ug/l
RT: 6.994 min Scan# 8
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 43 Resp: 2062

Ion	Ratio	Lower	Upper
43	100		
61	14.2	10.2	15.2
70	10.6	7.6	11.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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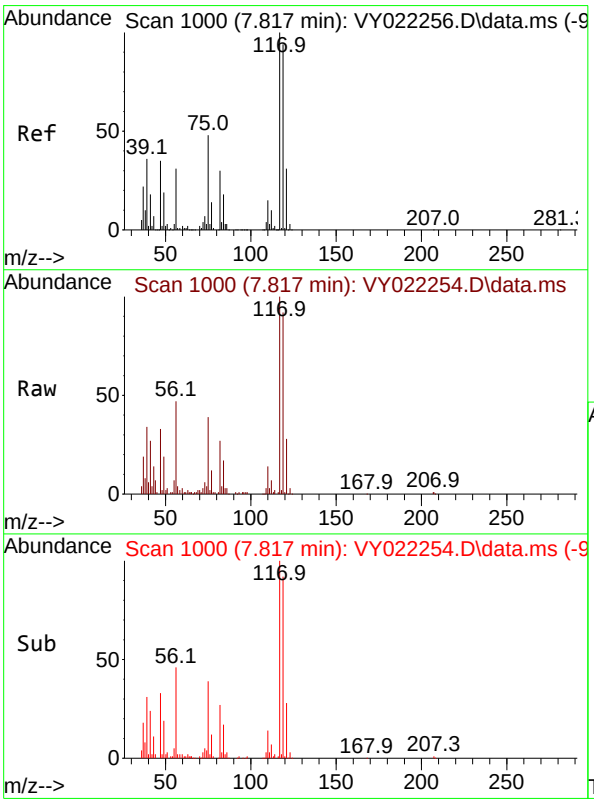
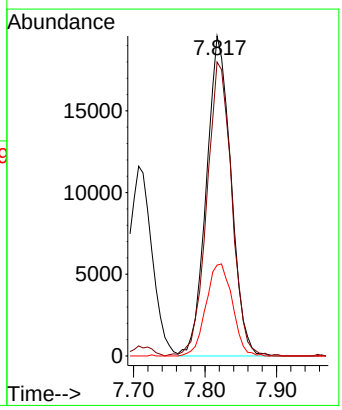
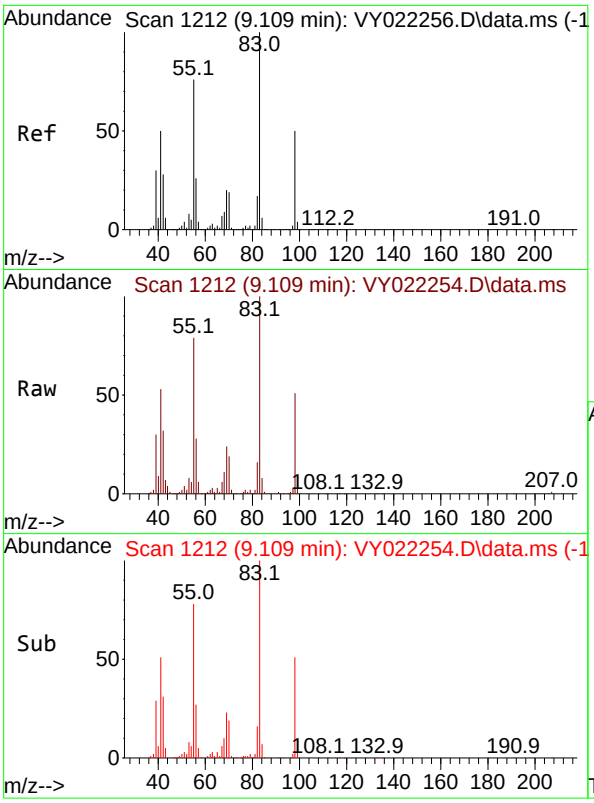


#38
Carbon Tetrachloride
Concen: 10.303 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion:117 Resp: 46772

Ion	Ratio	Lower	Upper
117	100		
119	91.4	75.3	112.9
121	28.4	24.7	37.1

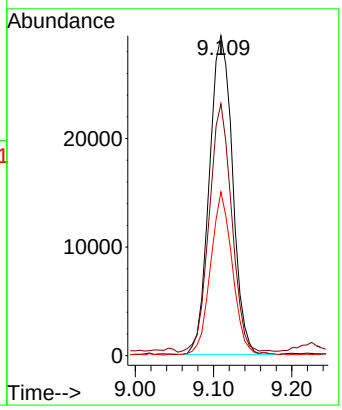




#39
Methylcyclohexane
Concen: 10.266 ug/l
RT: 9.109 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 83 Resp: 6048

Ion	Ratio	Lower	Upper
83	100		
55	77.9	60.6	90.8
98	51.1	40.0	60.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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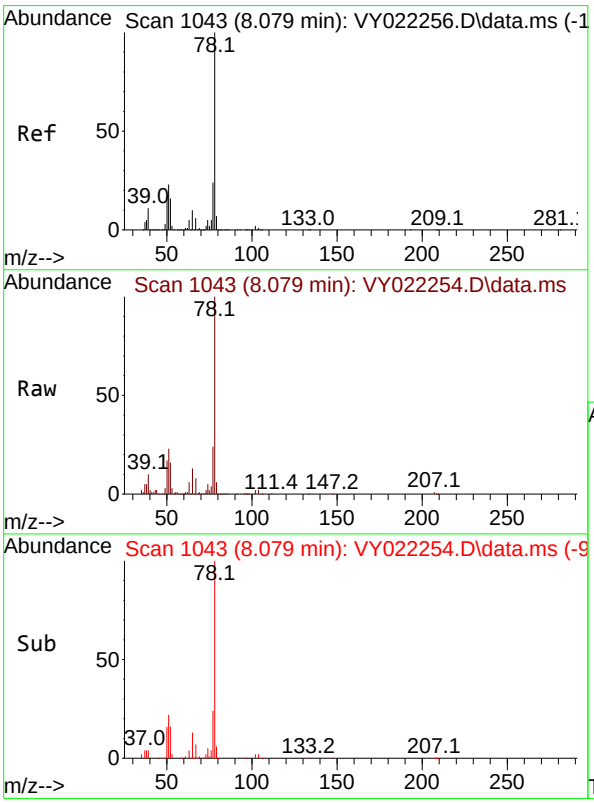
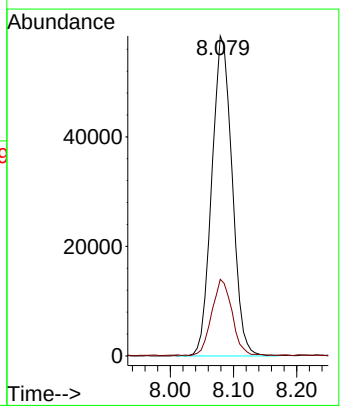
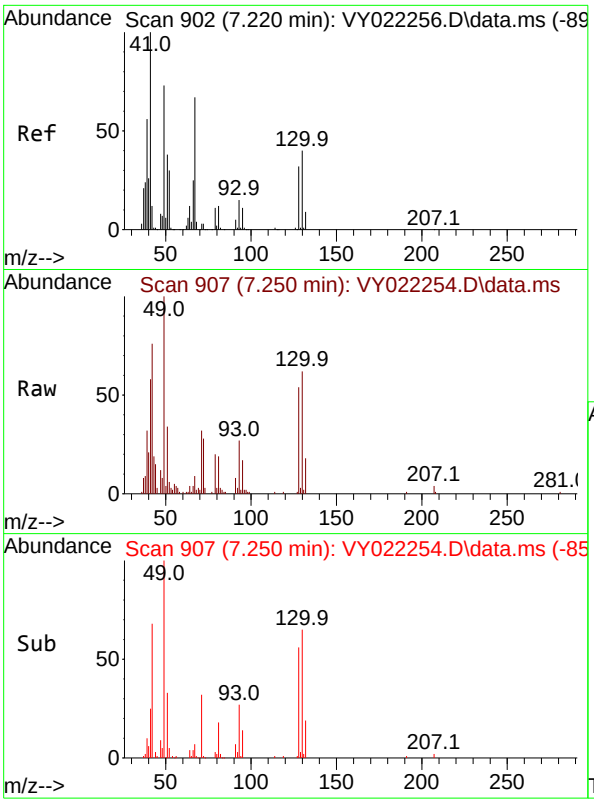


#40
Benzene
Concen: 10.032 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 78 Resp: 130423

Ion	Ratio	Lower	Upper
78	100		
77	23.7	18.9	28.3

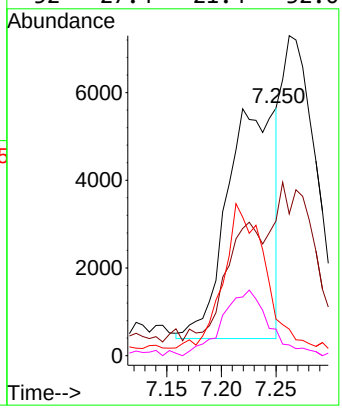




#41
Methacrylonitrile
Concen: 10.510 ug/l m
RT: 7.250 min Scan# 9(
Delta R.T. 0.030 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 41 Resp: 1622

Ion	Ratio	Lower	Upper
41	100		
39	38.5	39.1	58.7
67	54.4	47.1	70.7
52	27.4	21.4	32.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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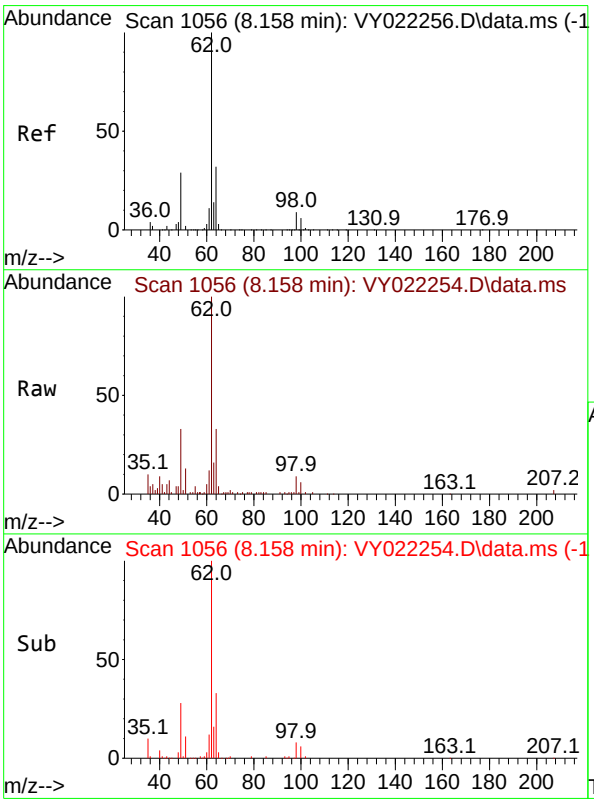
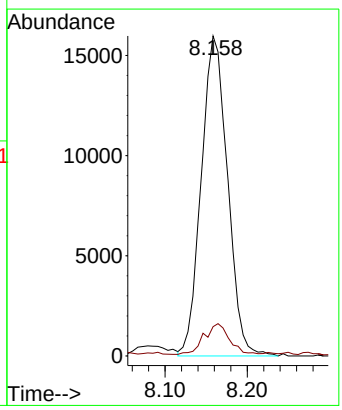
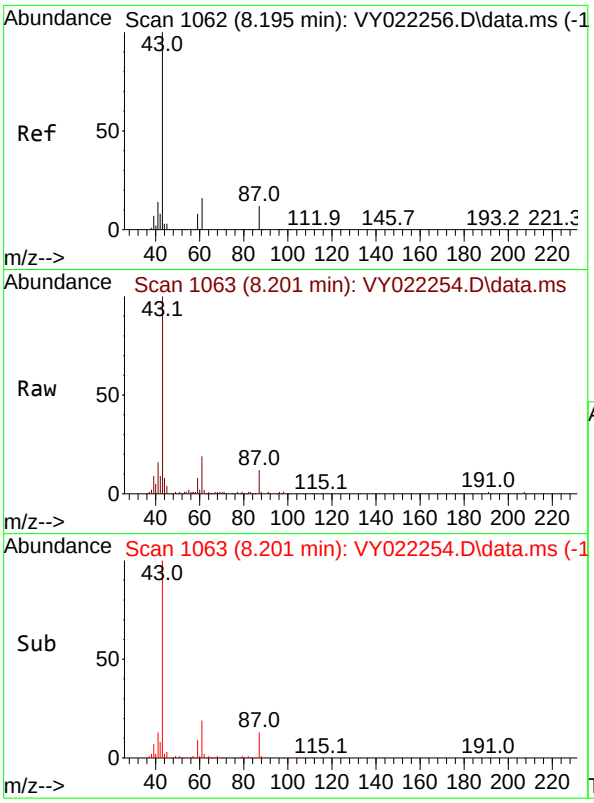


#42
1,2-Dichloroethane
Concen: 10.115 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 62 Resp: 35565

Ion	Ratio	Lower	Upper
62	100		
98	9.2	0.0	18.4

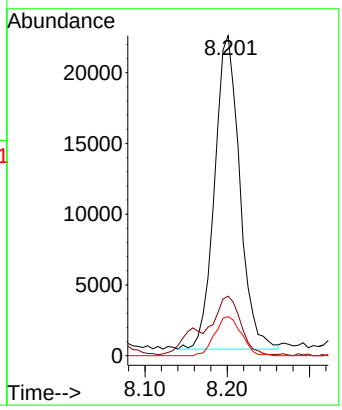




#43
Isopropyl Acetate
Concen: 10.217 ug/l
RT: 8.201 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 43 Resp: 4702

Ion	Ratio	Lower	Upper
43	100		
61	19.6	15.1	22.7
87	13.1	9.7	14.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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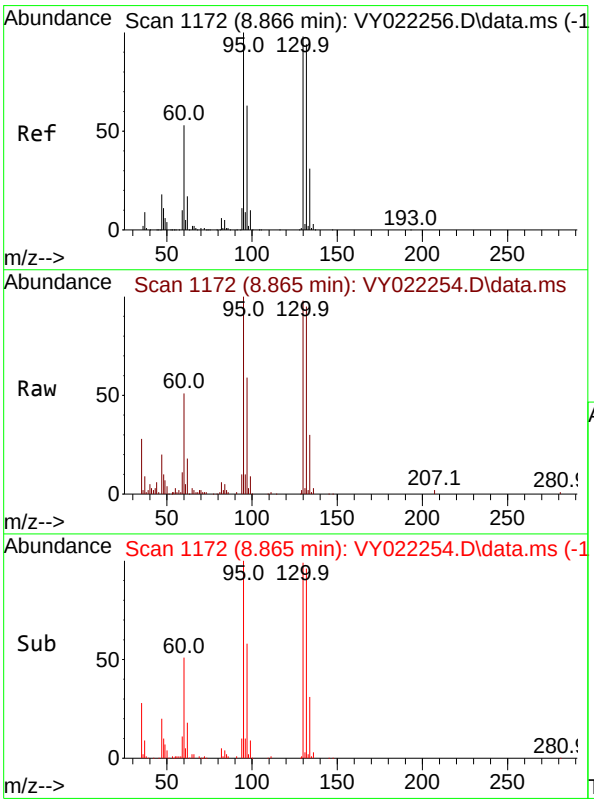
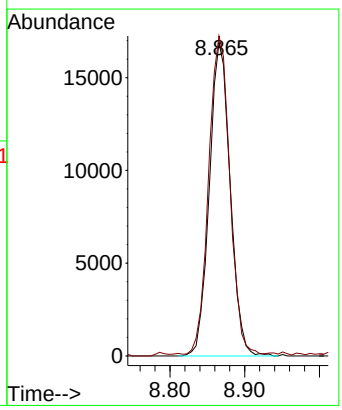
Supervised By :Semsettin Yesilyurt 05/16/2025

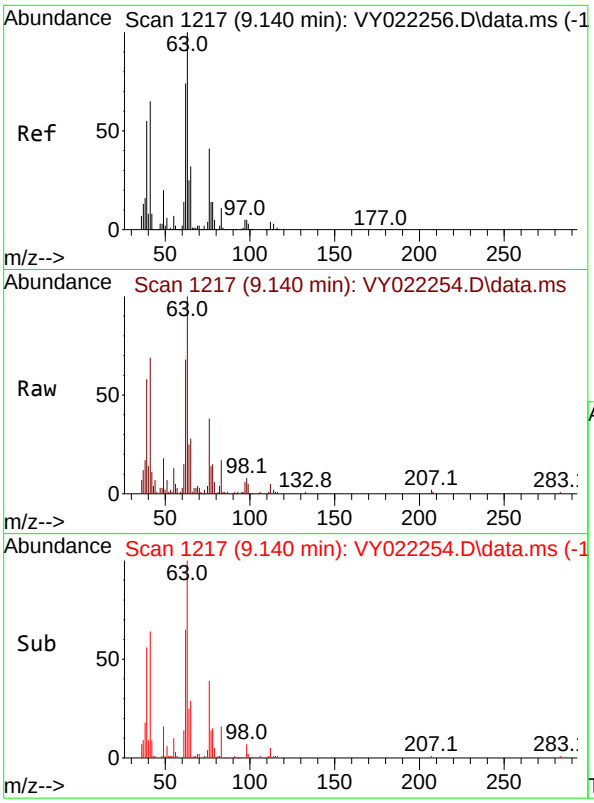


#44
Trichloroethene
Concen: 10.101 ug/l
RT: 8.865 min Scan# 1172
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion:130 Resp: 32655

Ion	Ratio	Lower	Upper
130	100		
95	101.4	0.0	204.8





#45
1,2-Dichloropropane
Concen: 10.264 ug/l
RT: 9.140 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 63 Resp: 3217

Ion	Ratio	Lower	Upper
63	100		
65	28.0	25.7	38.5

Instrument :
MSVOA_Y
ClientSampleId :
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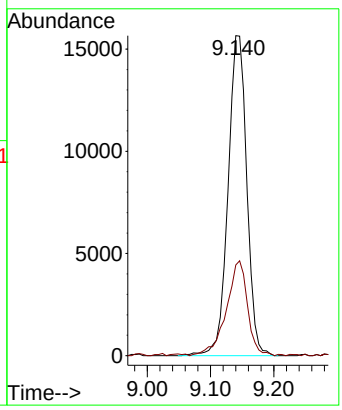
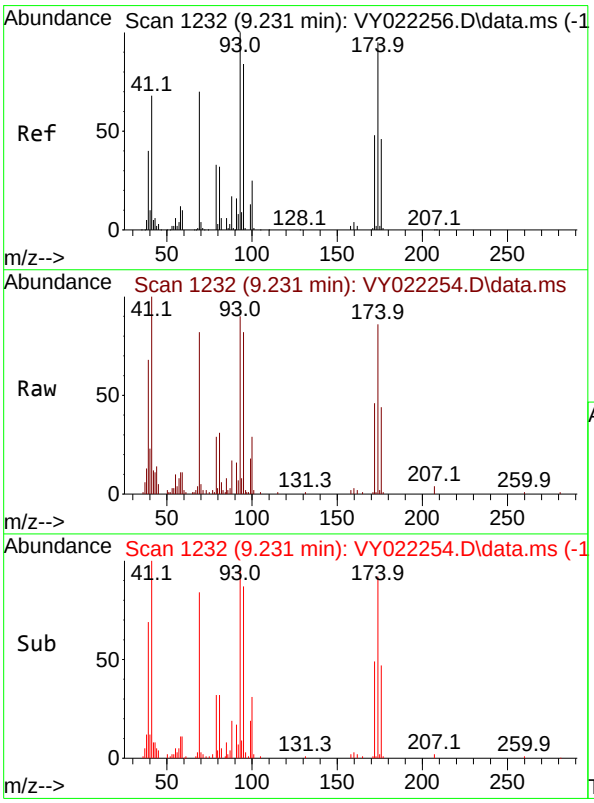
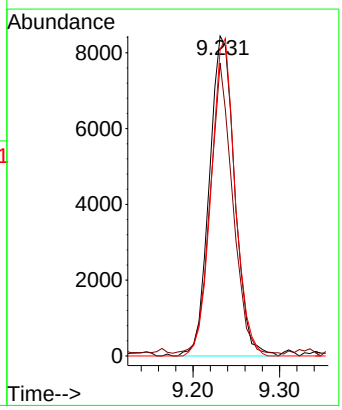


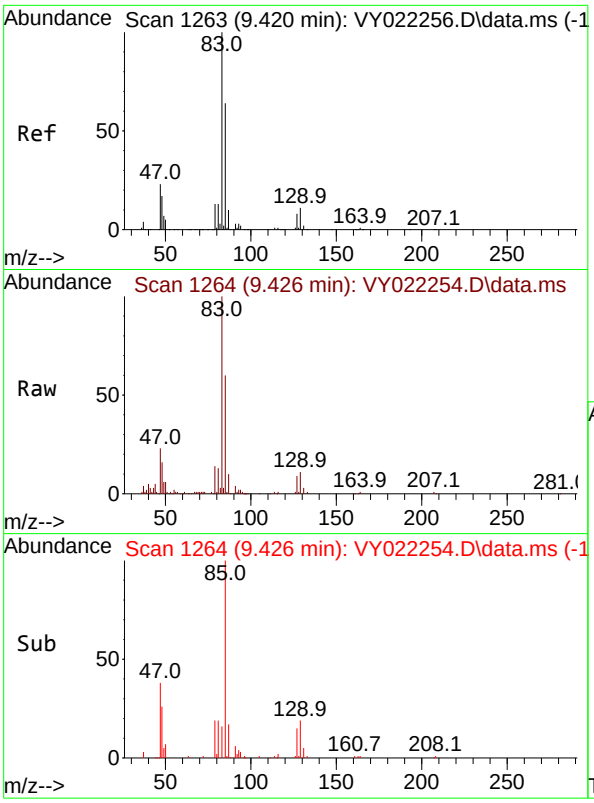


#46
Dibromomethane
Concen: 10.135 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 93 Resp: 17134

Ion	Ratio	Lower	Upper
93	100		
95	82.1	65.2	97.8
174	93.7	74.3	111.5

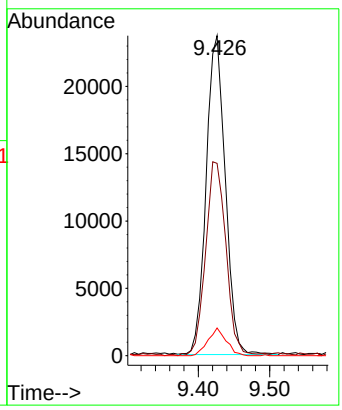




#47
Bromodichloromethane
Concen: 10.042 ug/l
RT: 9.426 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 83 Resp: 4404

Ion	Ratio	Lower	Upper
83	100		
85	60.3	51.1	76.7
127	8.7	6.6	10.0



Instrument :
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ClientSampleId :
VSTDICC010

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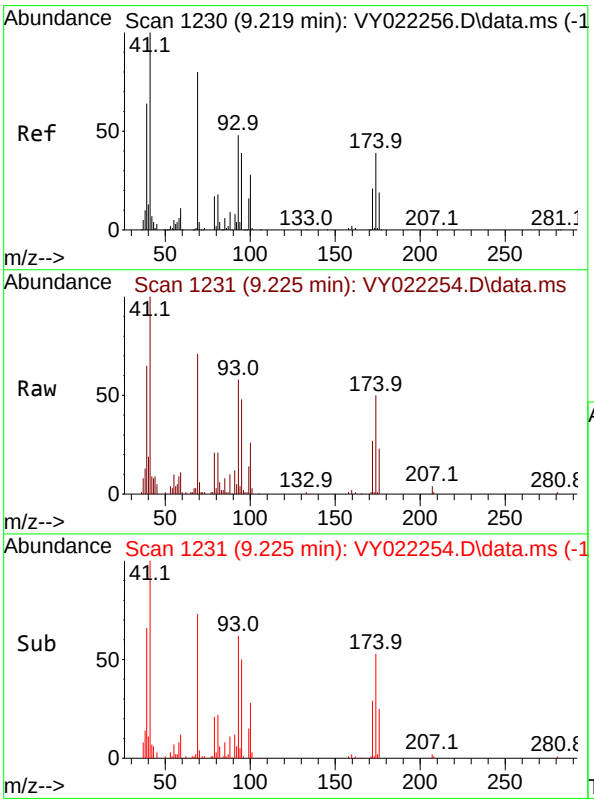
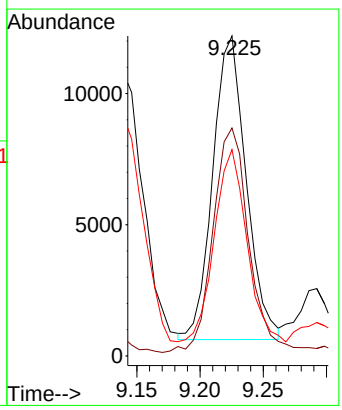
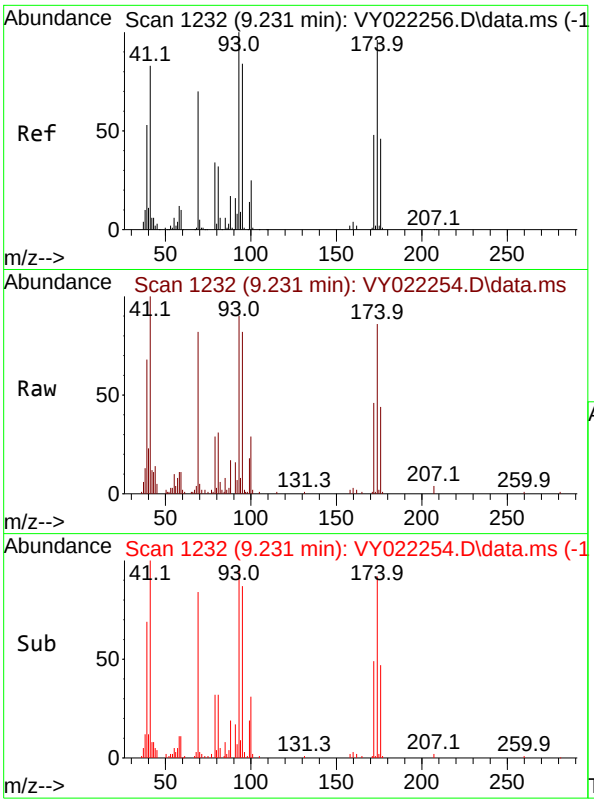


#48
Methyl methacrylate
Concen: 9.851 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 41 Resp: 21202

Ion	Ratio	Lower	Upper
41	100		
69	80.5	63.5	95.3
39	62.0	50.8	76.2





#49
1,4-Dioxane
Concen: 205.769 ug/l
RT: 9.231 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 88 Resp: 393

Ion	Ratio	Lower	Upper
88	100		
43	0.0	28.5	42.7#
58	84.5	61.4	92.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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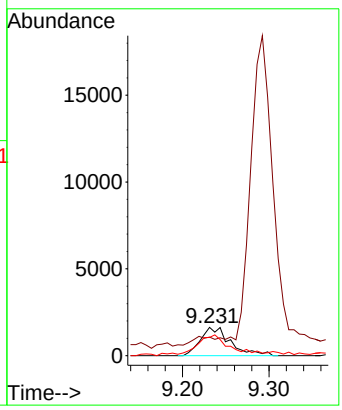
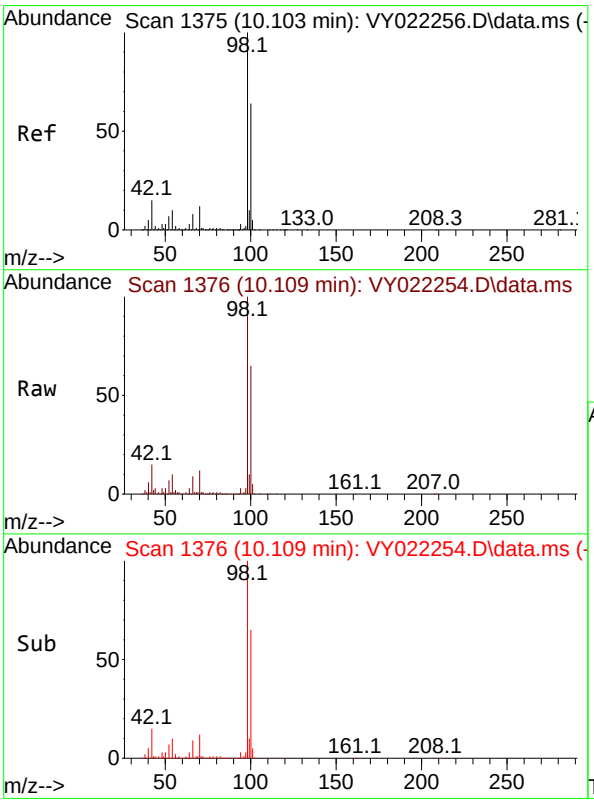
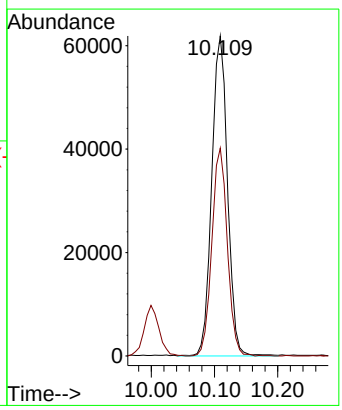


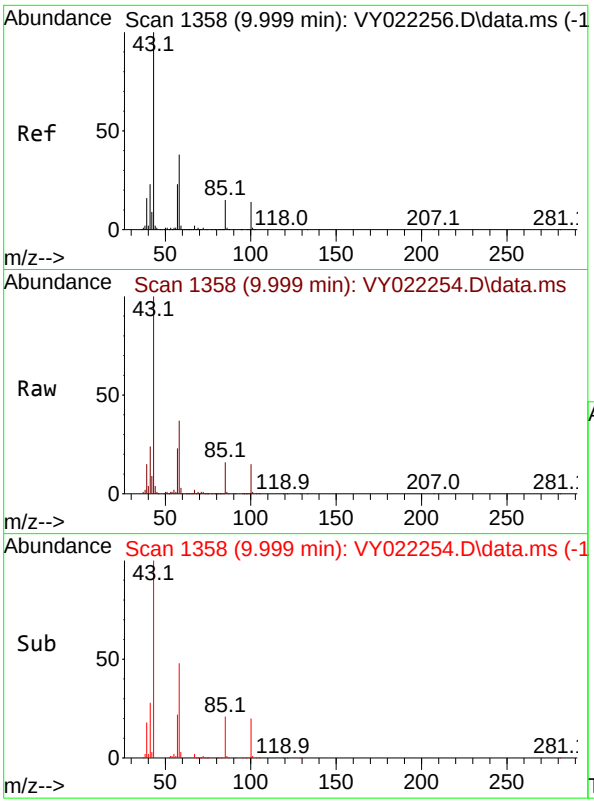


#50
Toluene-d8
Concen: 9.816 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 98 Resp: 107048

Ion	Ratio	Lower	Upper
98	100		
100	63.7	51.8	77.8

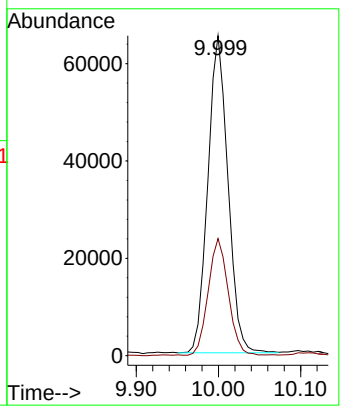




#51
4-Methyl-2-Pentanone
Concen: 48.889 ug/l
RT: 9.999 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 43 Resp: 11039

Ion	Ratio	Lower	Upper
43	100		
58	36.7	29.4	44.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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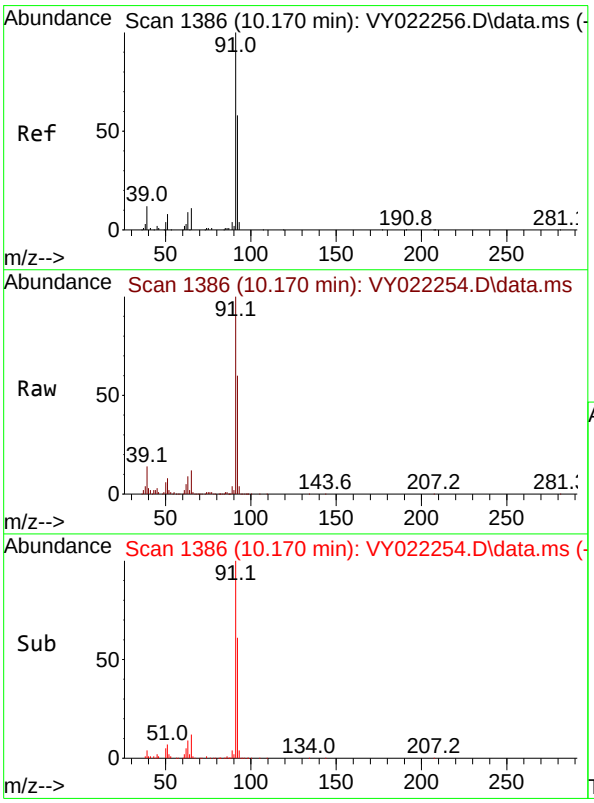
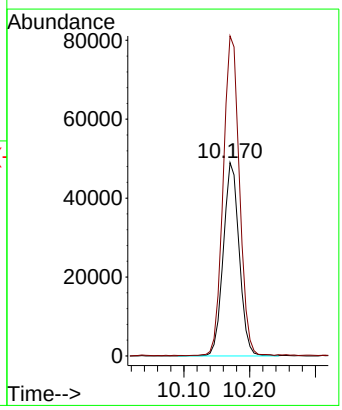
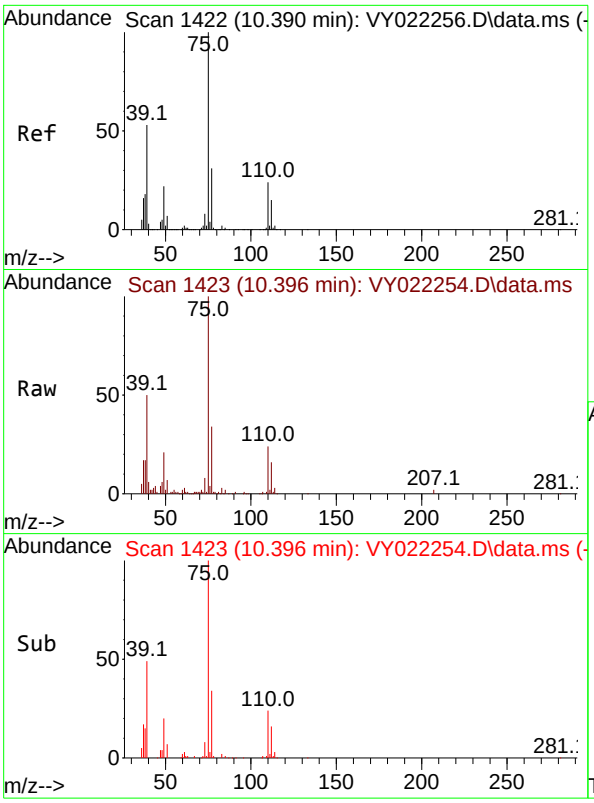


#52
Toluene
Concen: 10.015 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 92 Resp: 82453

Ion	Ratio	Lower	Upper
92	100		
91	168.8	139.1	208.7





#53
t-1,3-Dichloropropene
Concen: 9.849 ug/l
RT: 10.396 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 75 Resp: 4215

Ion	Ratio	Lower	Upper
75	100		
77	33.5	25.0	37.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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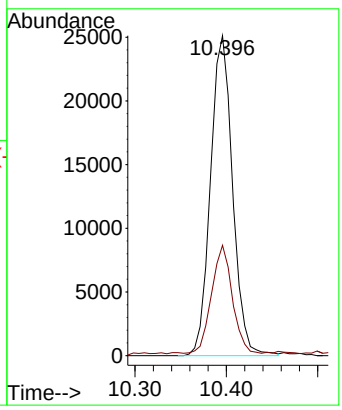
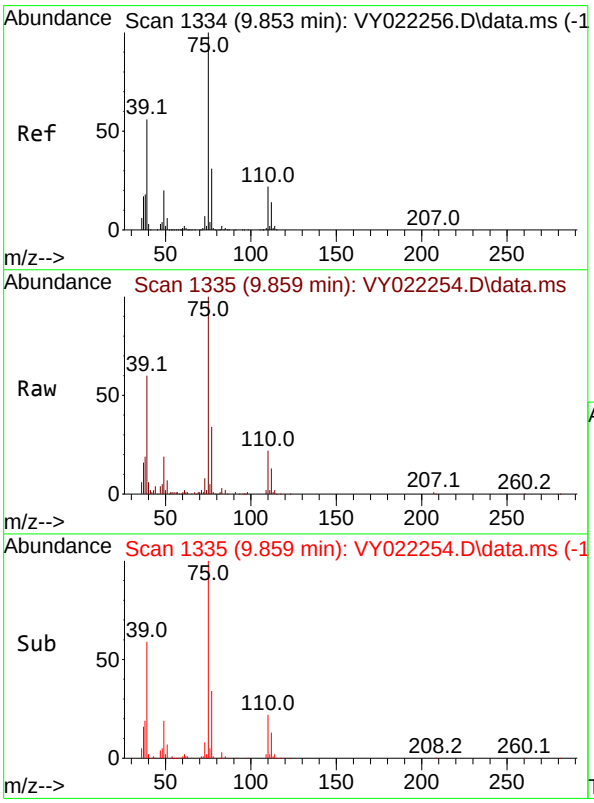
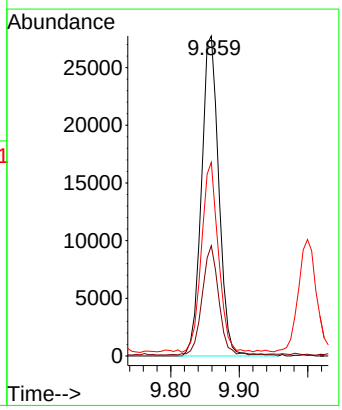


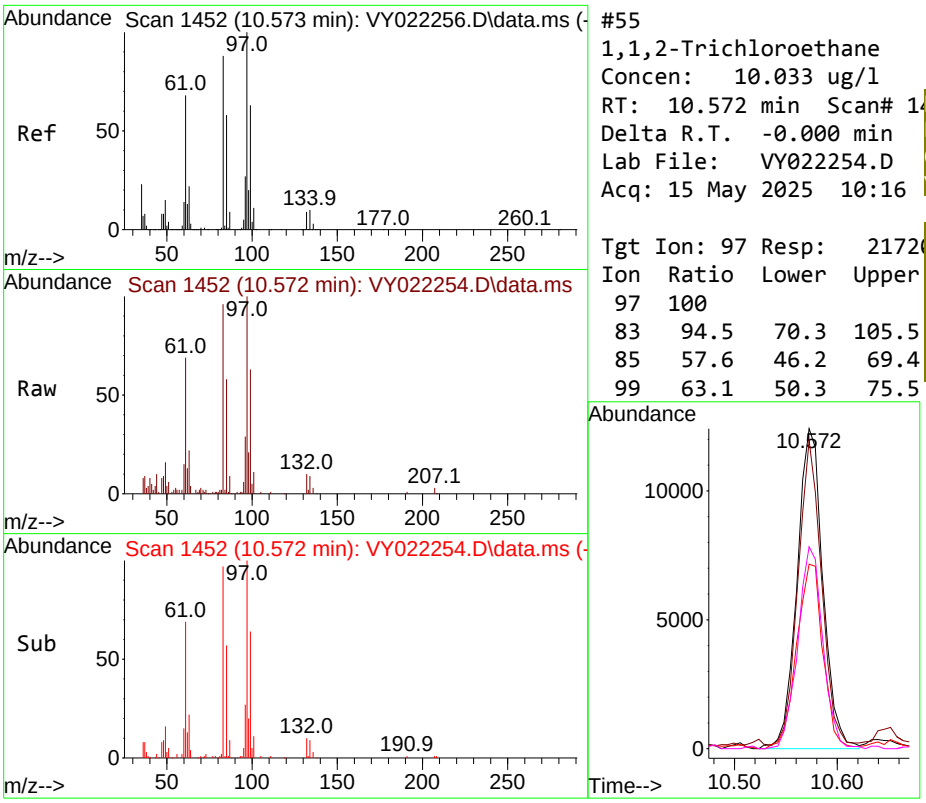


#54
cis-1,3-Dichloropropene
Concen: 9.976 ug/l
RT: 9.859 min Scan# 1335
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 75 Resp: 48923

Ion	Ratio	Lower	Upper
75	100		
77	34.1	25.1	37.7
39	58.7	44.5	66.7





#55
1,1,2-Trichloroethane
Concen: 10.033 ug/l
RT: 10.572 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 97 Resp: 2172

Ion	Ratio	Lower	Upper
97	100		
83	94.5	70.3	105.5
85	57.6	46.2	69.4
99	63.1	50.3	75.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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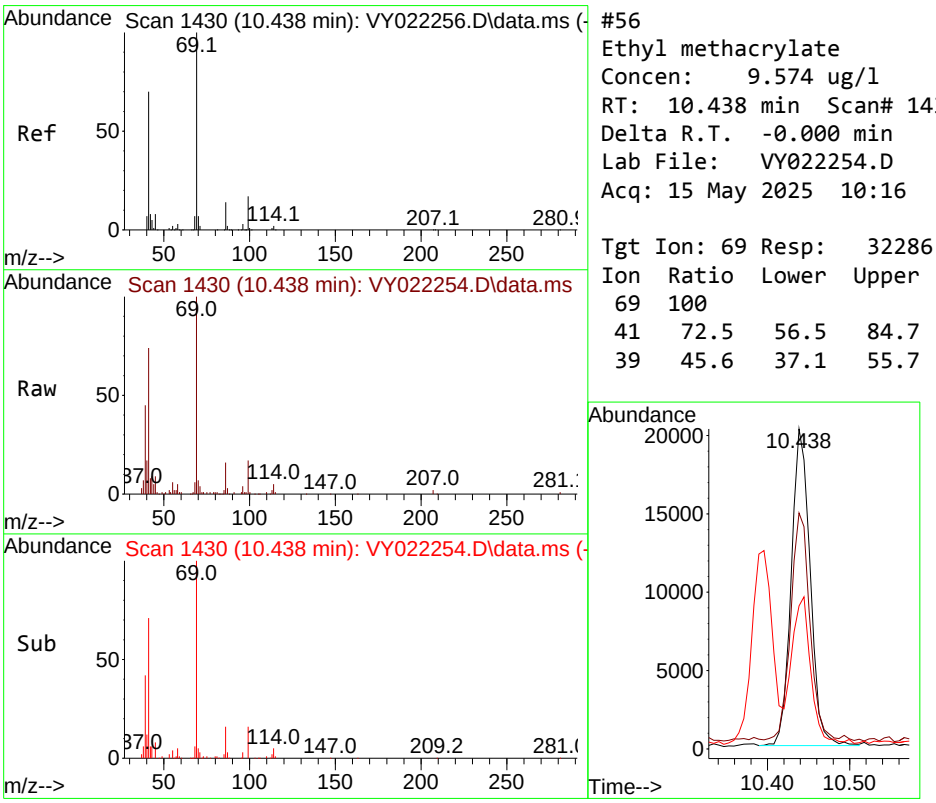
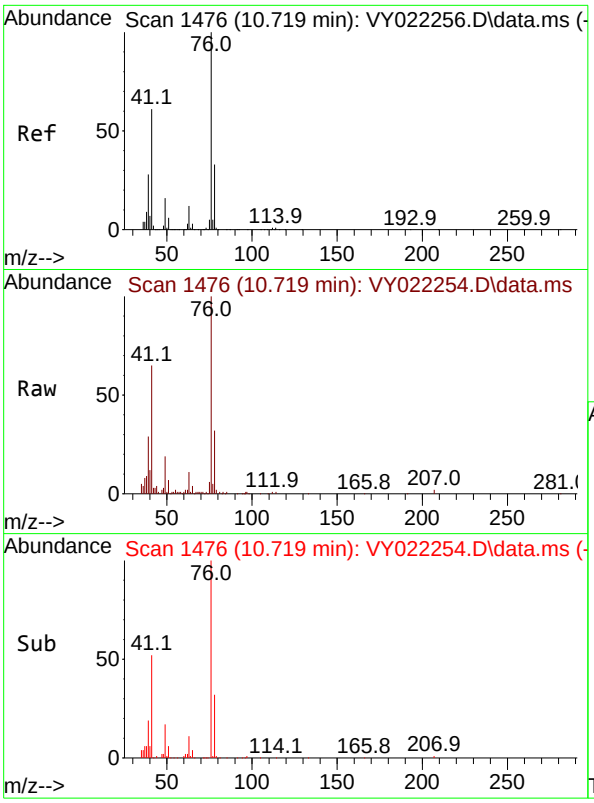


#56
Ethyl methacrylate
Concen: 9.574 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 69 Resp: 32286

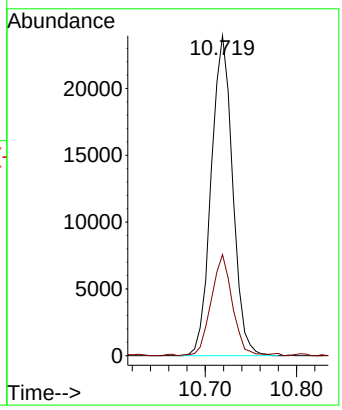
Ion	Ratio	Lower	Upper
69	100		
41	72.5	56.5	84.7
39	45.6	37.1	55.7



#57
1,3-Dichloropropane
Concen: 10.115 ug/l
RT: 10.719 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 76 Resp: 3890

Ion	Ratio	Lower	Upper
76	100		
78	31.3	25.8	38.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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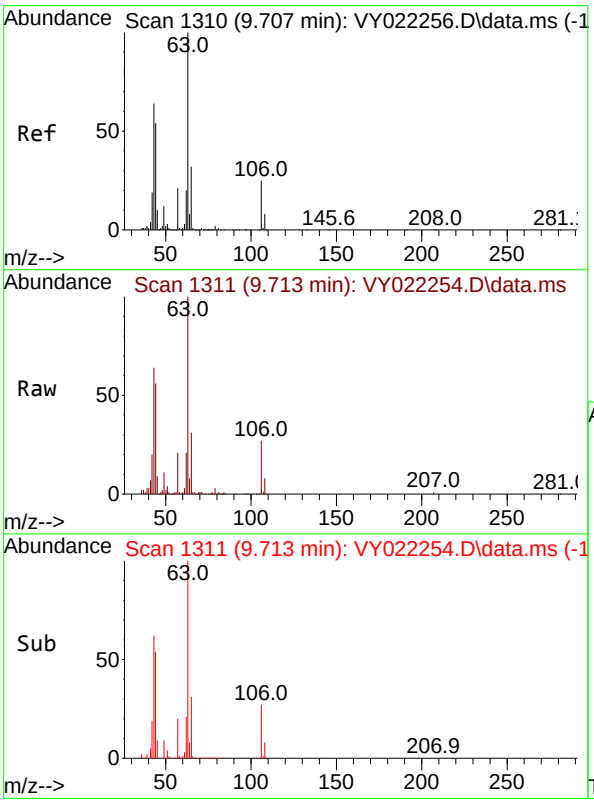
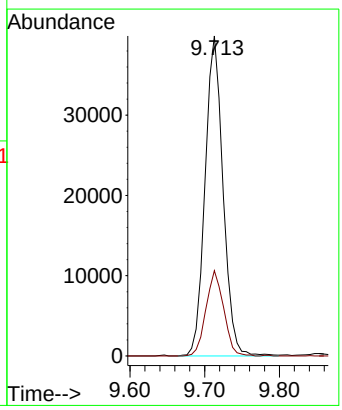
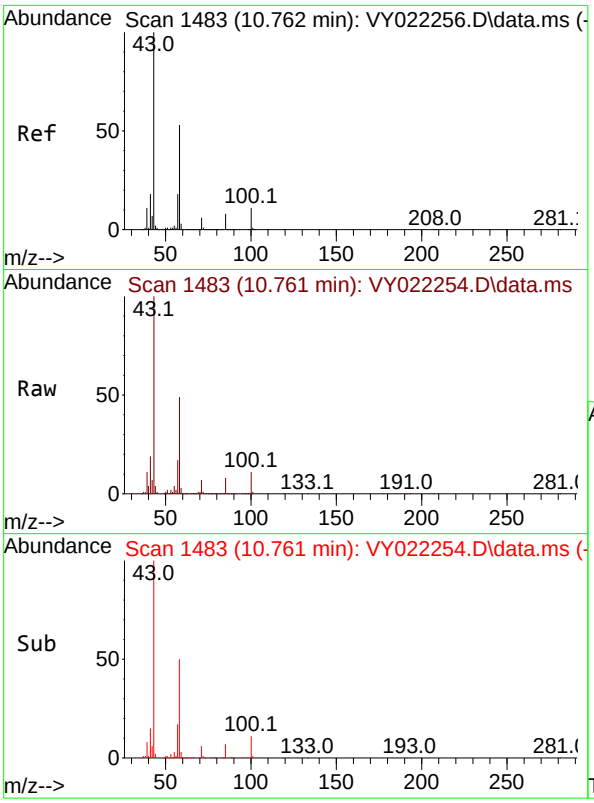


#58
2-Chloroethyl Vinyl ether
Concen: 44.066 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 63 Resp: 66700

Ion	Ratio	Lower	Upper
63	100		
106	26.3	21.0	31.4





#59
2-Hexanone
Concen: 49.162 ug/l
RT: 10.761 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 43 Resp: 7443

Ion	Ratio	Lower	Upper
43	100		
58	53.2	26.1	78.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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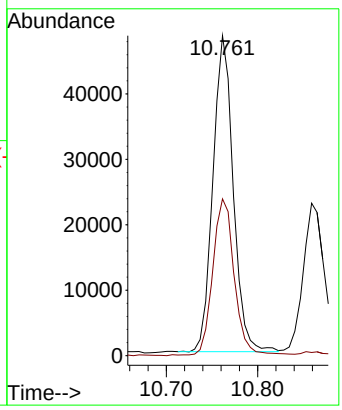
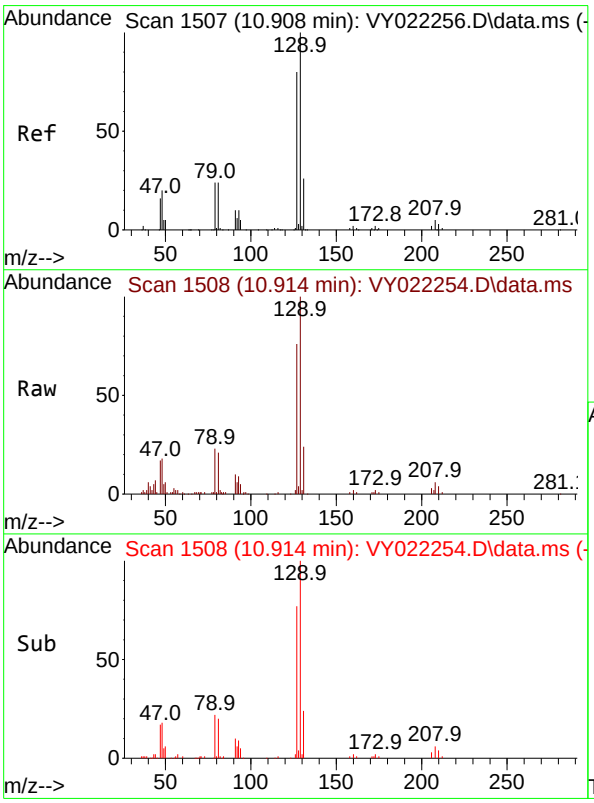
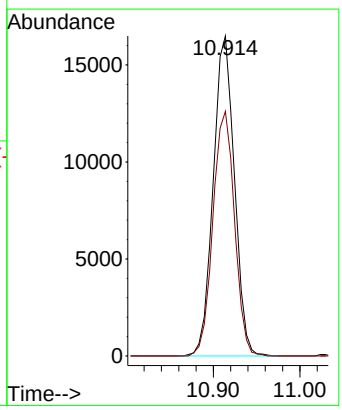


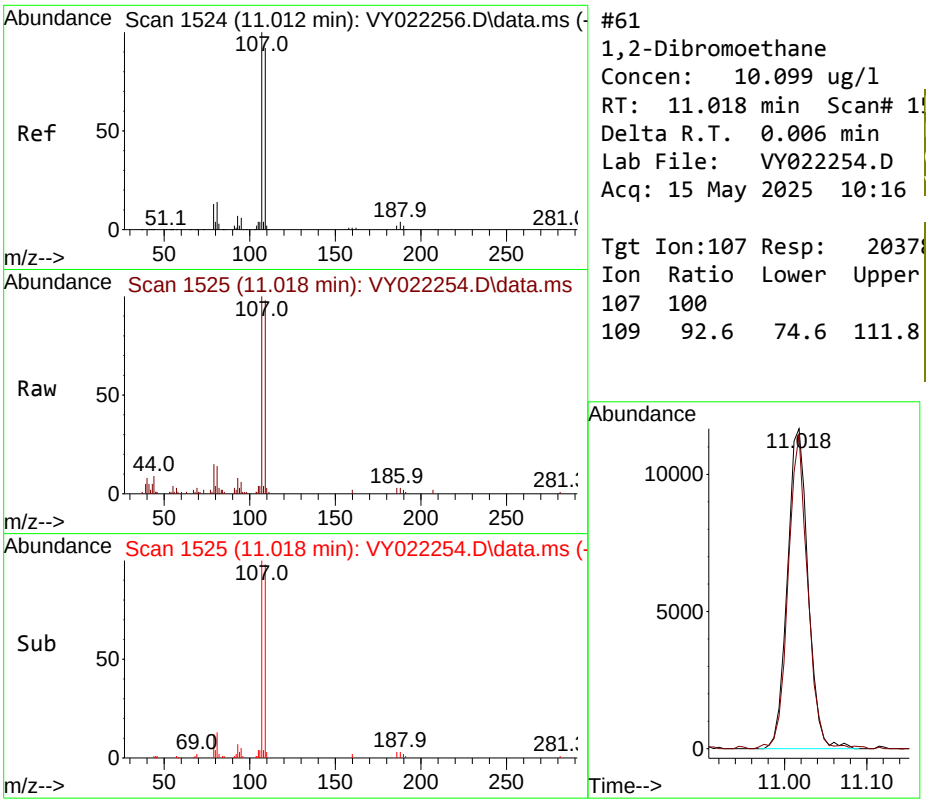


#60
Dibromochloromethane
Concen: 9.965 ug/l
RT: 10.914 min Scan# 1508
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion:129 Resp: 28002

Ion	Ratio	Lower	Upper
129	100		
127	77.8	38.6	115.7





#61
1,2-Dibromoethane
Concen: 10.099 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion:107 Resp: 2037

Ion	Ratio	Lower	Upper
107	100		
109	92.6	74.6	111.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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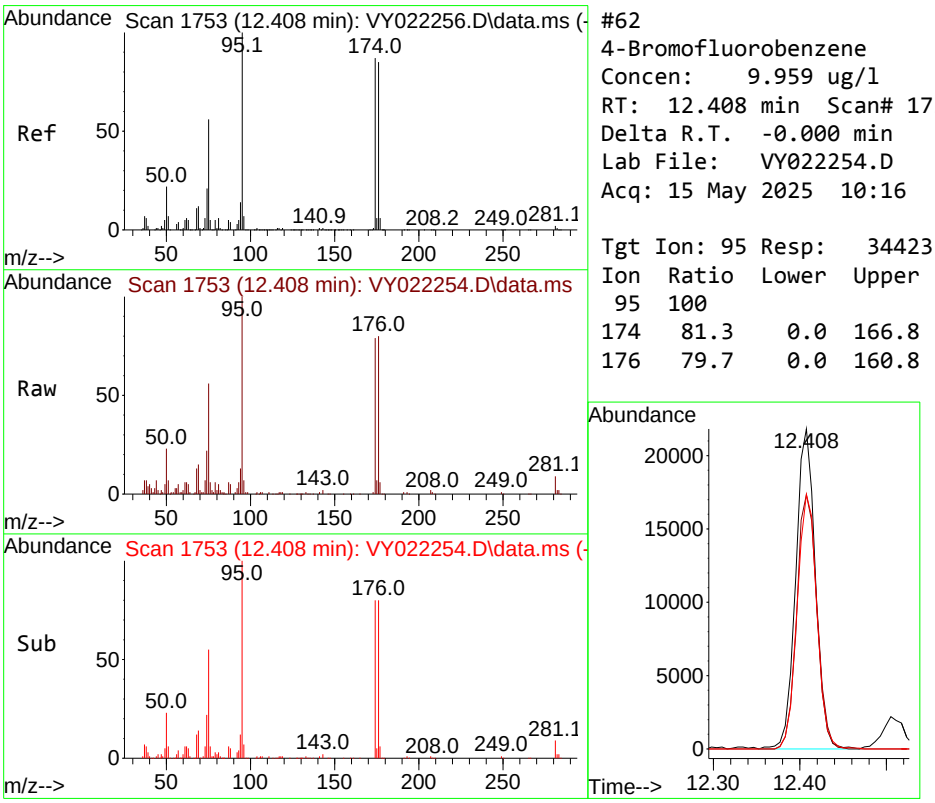
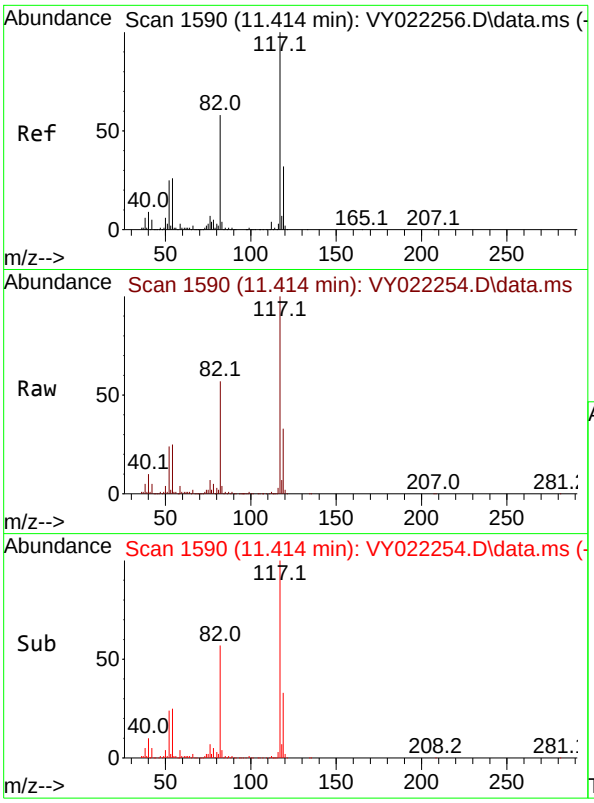


#62
4-Bromofluorobenzene
Concen: 9.959 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 95 Resp: 34423

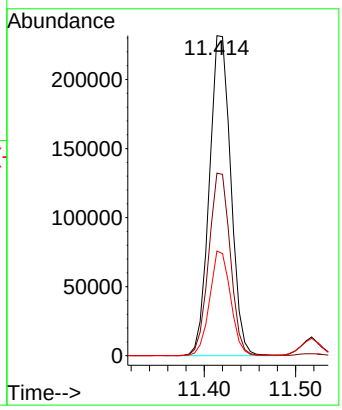
Ion	Ratio	Lower	Upper
95	100		
174	81.3	0.0	166.8
176	79.7	0.0	160.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion:117 Resp: 37721

Ion	Ratio	Lower	Upper
117	100		
82	57.0	46.6	70.0
119	32.7	25.8	38.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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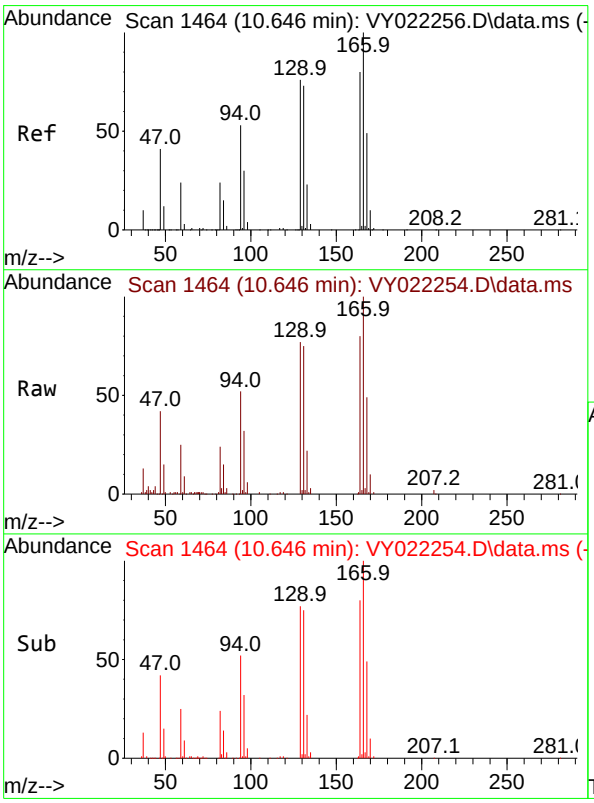
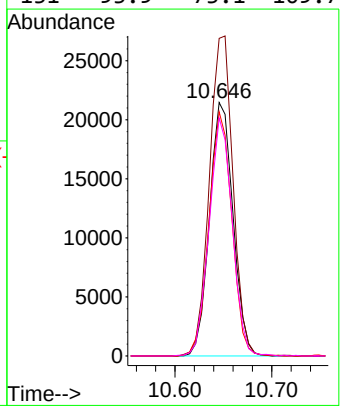
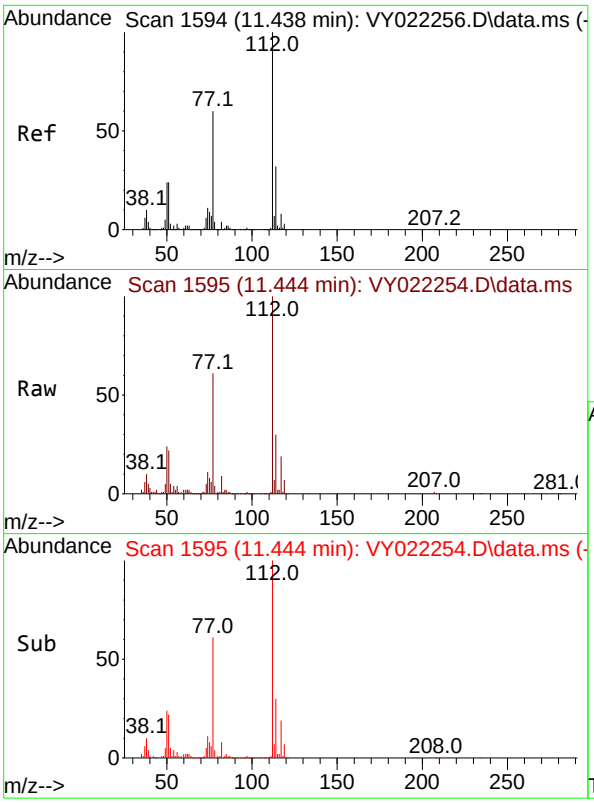


#64
Tetrachloroethene
Concen: 10.404 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion:164 Resp: 36274

Ion	Ratio	Lower	Upper
164	100		
166	125.3	100.4	150.6
129	96.3	76.4	114.6
131	93.9	73.1	109.7

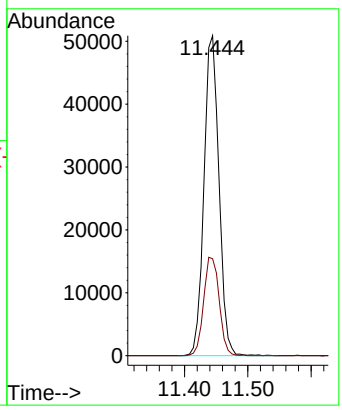




#65
Chlorobenzene
Concen: 9.839 ug/l
RT: 11.444 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion:112 Resp: 8373

Ion	Ratio	Lower	Upper
112	100		
114	30.3	25.8	38.6



Instrument :
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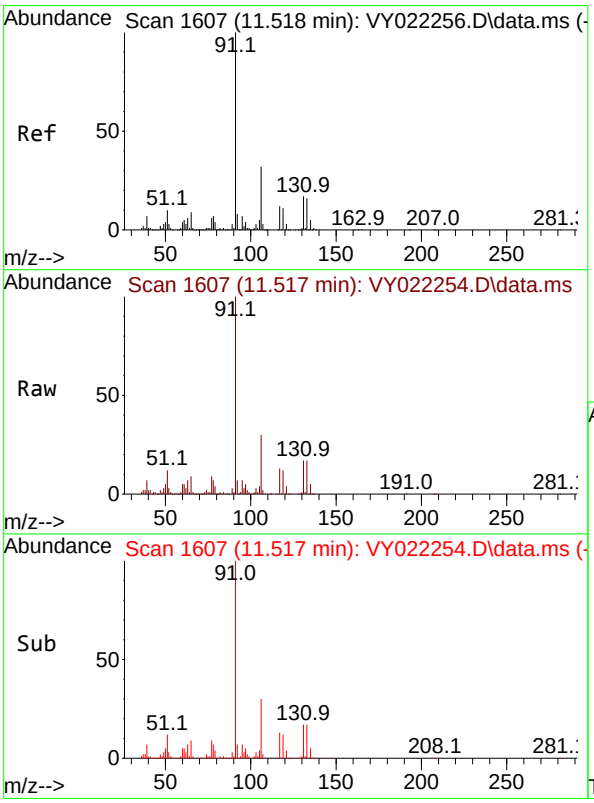
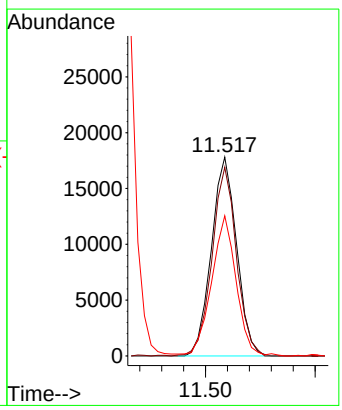
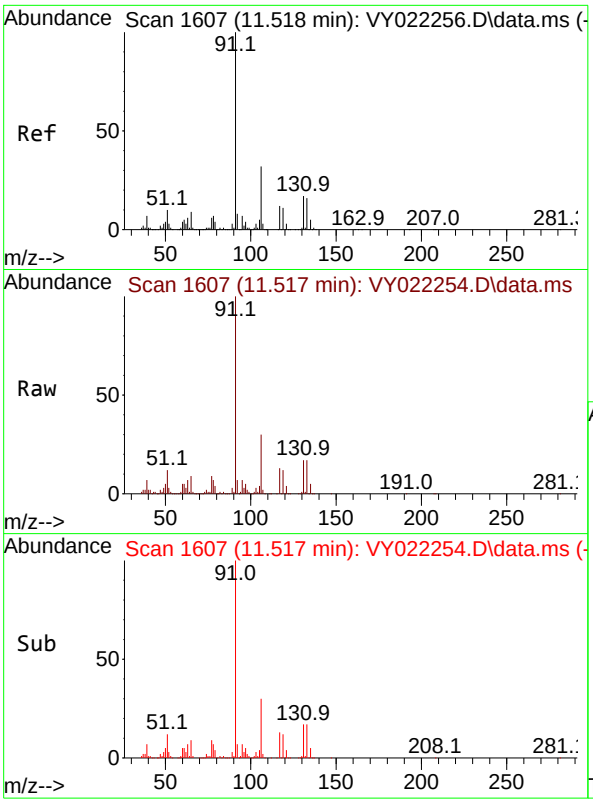


#66
1,1,1,2-Tetrachloroethane
Concen: 9.721 ug/l
RT: 11.517 min Scan# 1607
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion:131 Resp: 28441

Ion	Ratio	Lower	Upper
131	100		
133	92.3	47.3	141.9
119	69.0	33.1	99.2

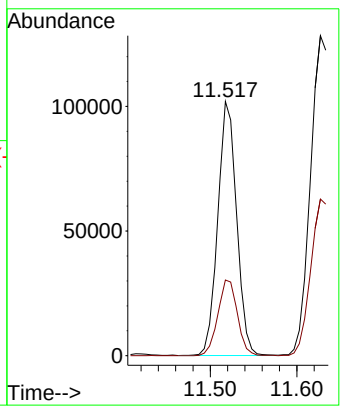




#67
Ethyl Benzene
Concen: 9.672 ug/l
RT: 11.517 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 91 Resp: 15415

Ion	Ratio	Lower	Upper
91	100		
106	29.8	25.4	38.0



Instrument :
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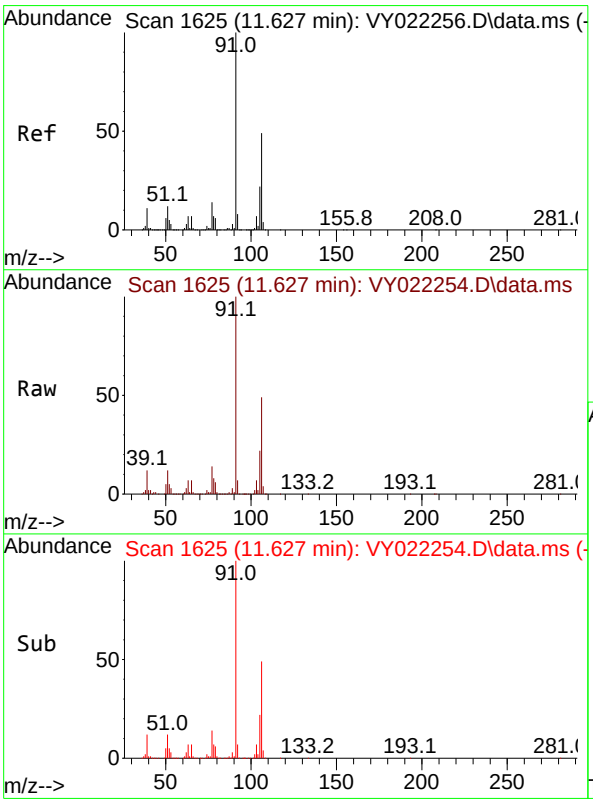
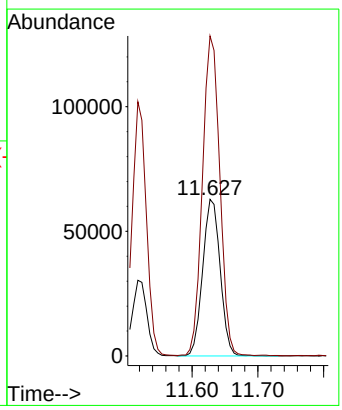
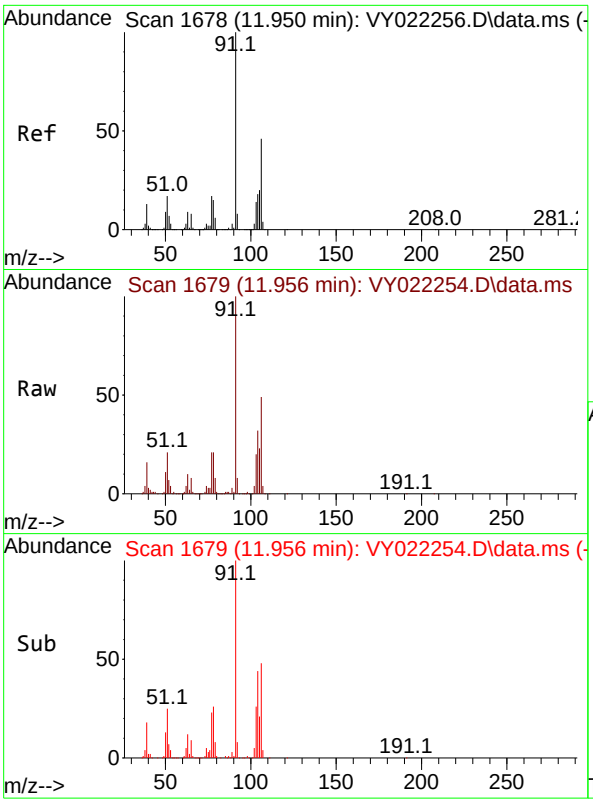


#68
m/p-Xylenes
Concen: 19.334 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion:106 Resp: 116113

Ion	Ratio	Lower	Upper
106	100		
91	202.4	163.0	244.4

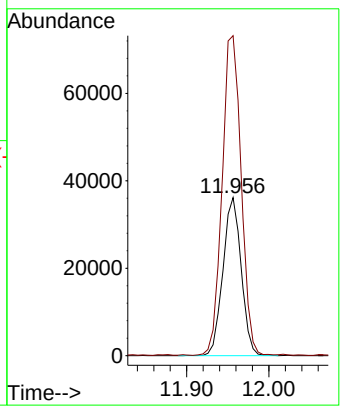




#69
o-Xylene
Concen: 9.837 ug/l
RT: 11.956 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion:106 Resp: 5589

Ion	Ratio	Lower	Upper
106	100		
91	210.6	108.3	324.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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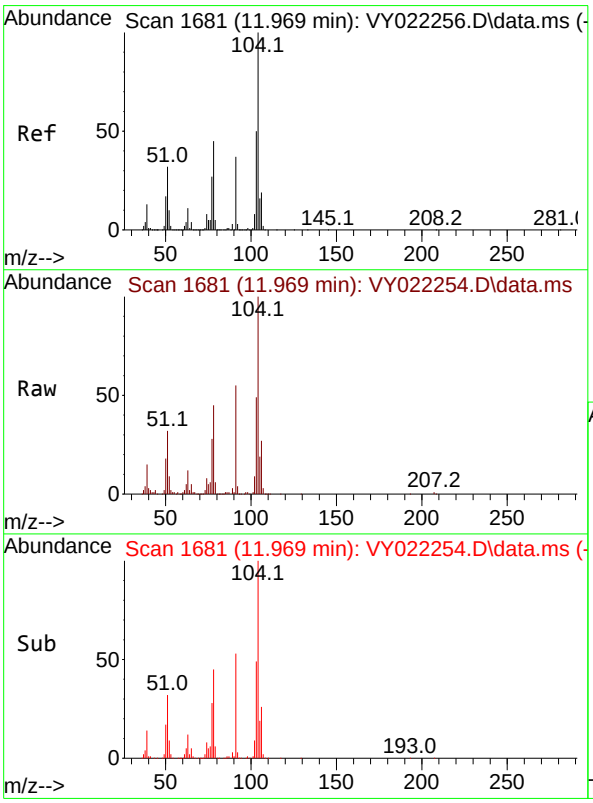
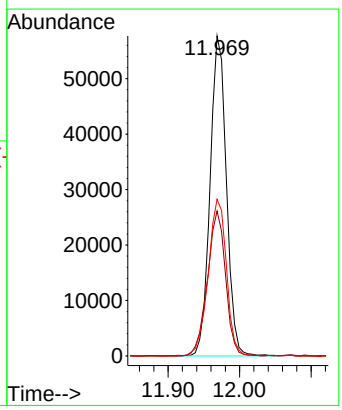
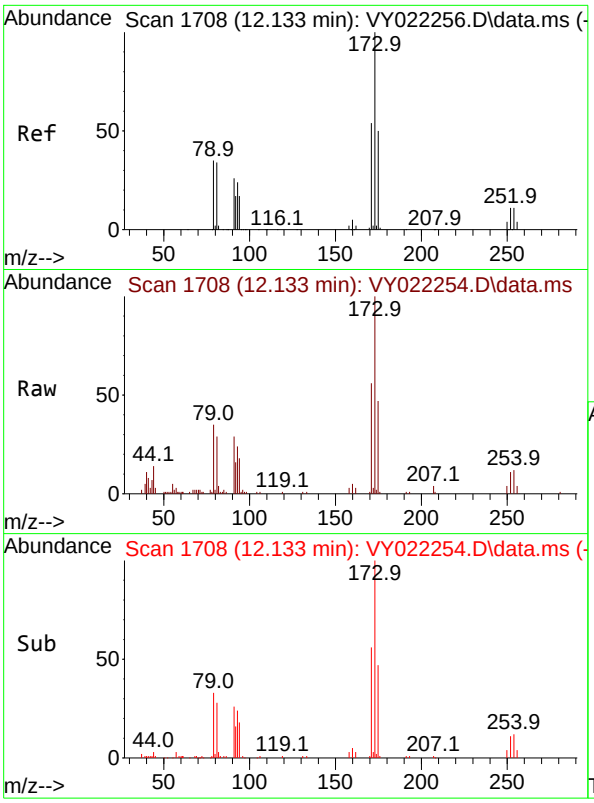


#70
Styrene
Concen: 9.553 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion:104 Resp: 91569

Ion	Ratio	Lower	Upper
104	100		
78	50.4	40.9	61.3
103	54.7	43.7	65.5

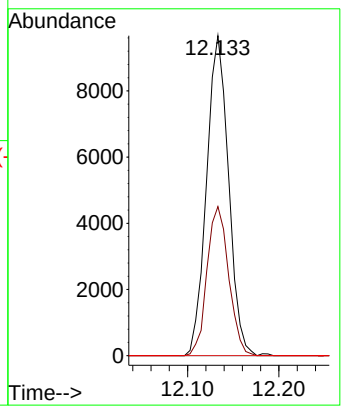




#71
Bromoform
Concen: 10.228 ug/l
RT: 12.133 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion:173 Resp: 1615

Ion	Ratio	Lower	Upper
173	100		
175	45.9	24.7	74.1
254	0.0	0.0	0.0



Instrument :
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ClientSampleId :
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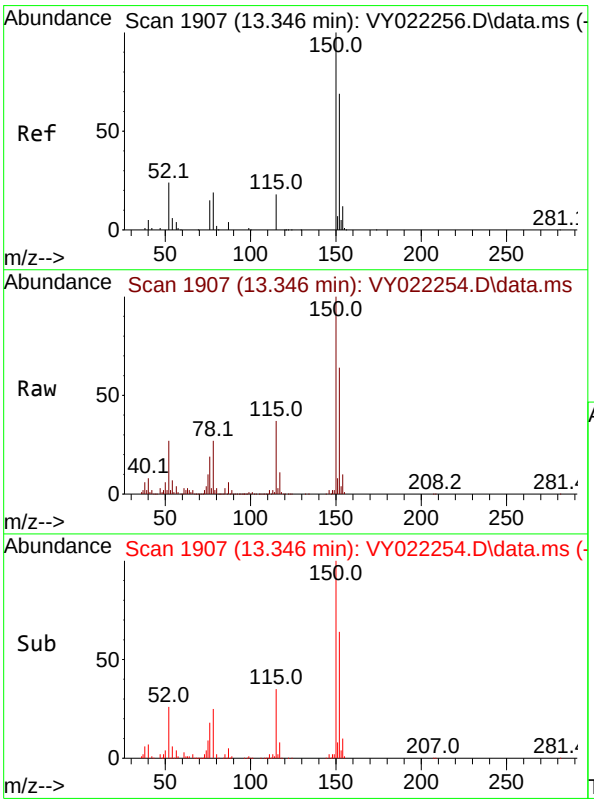
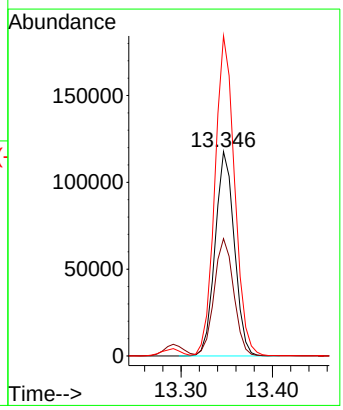
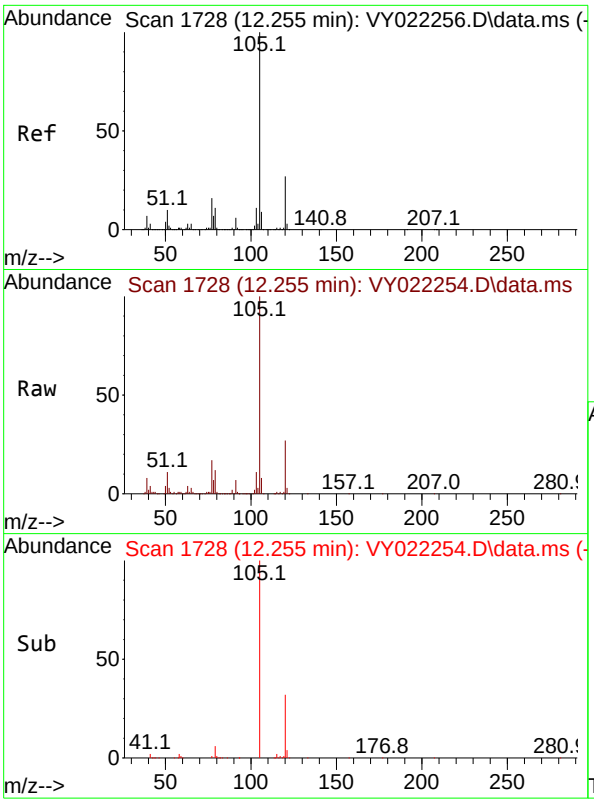


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion:152 Resp: 171972

Ion	Ratio	Lower	Upper
152	100		
115	58.4	29.4	88.2
150	161.2	0.0	353.8

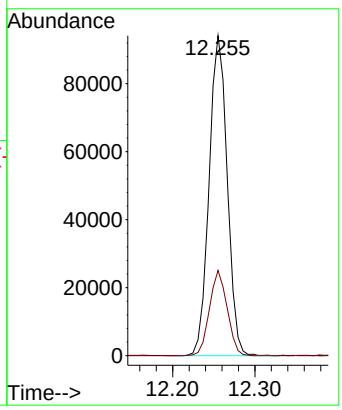




#73
Isopropylbenzene
Concen: 10.120 ug/l
RT: 12.255 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion:105 Resp: 14418

Ion	Ratio	Lower	Upper
105	100		
120	25.9	13.2	39.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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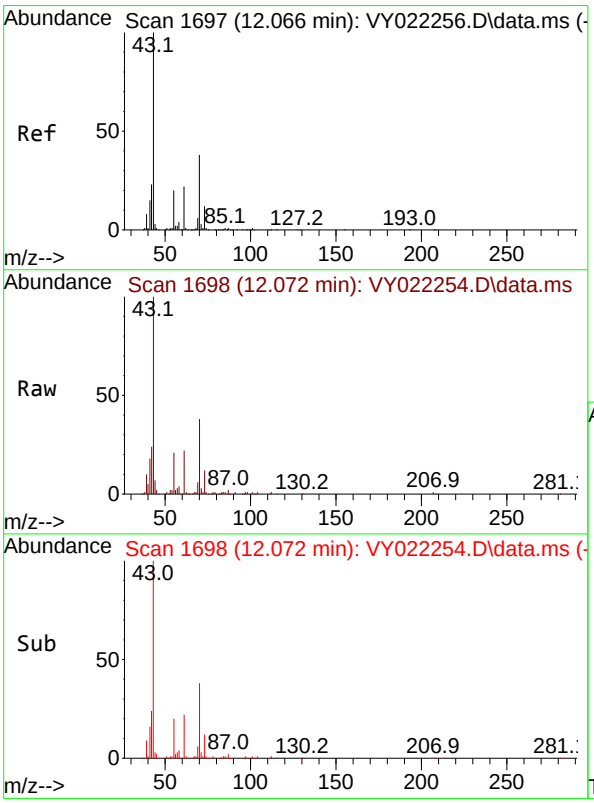
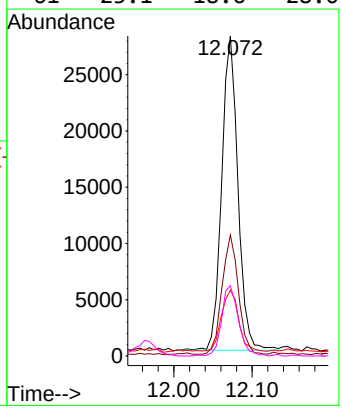
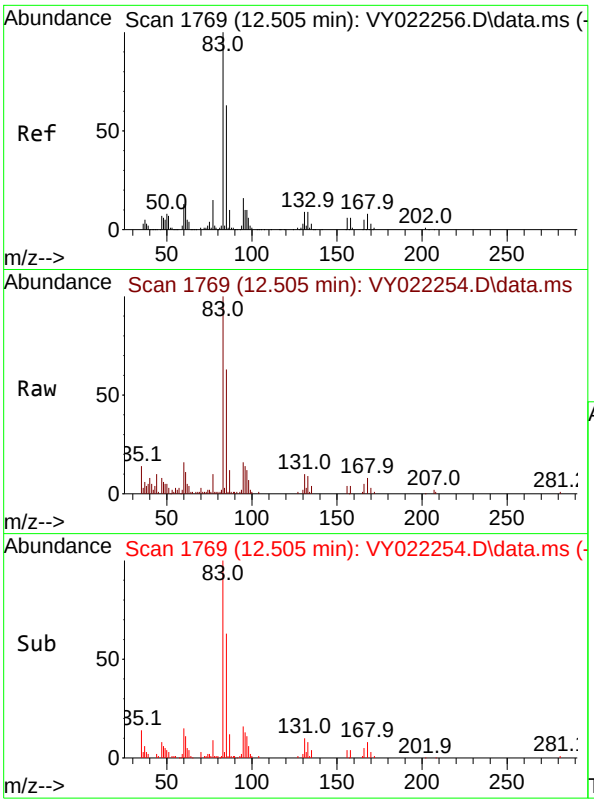


#74
N-amyl acetate
Concen: 9.901 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 43 Resp: 40345

Ion	Ratio	Lower	Upper
43	100		
70	38.2	31.4	47.0
55	20.5	17.0	25.6
61	23.1	18.6	28.0





#75
1,1,2,2-Tetrachloroethane
Concen: 10.152 ug/l
RT: 12.505 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 83 Resp: 2224

Ion	Ratio	Lower	Upper
83	100		
131	11.1	4.9	14.7
85	60.8	32.0	96.0

Instrument :
MSVOA_Y
ClientSampleId :
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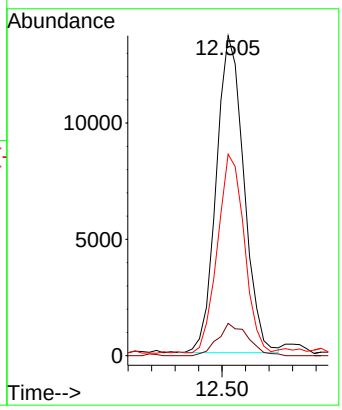
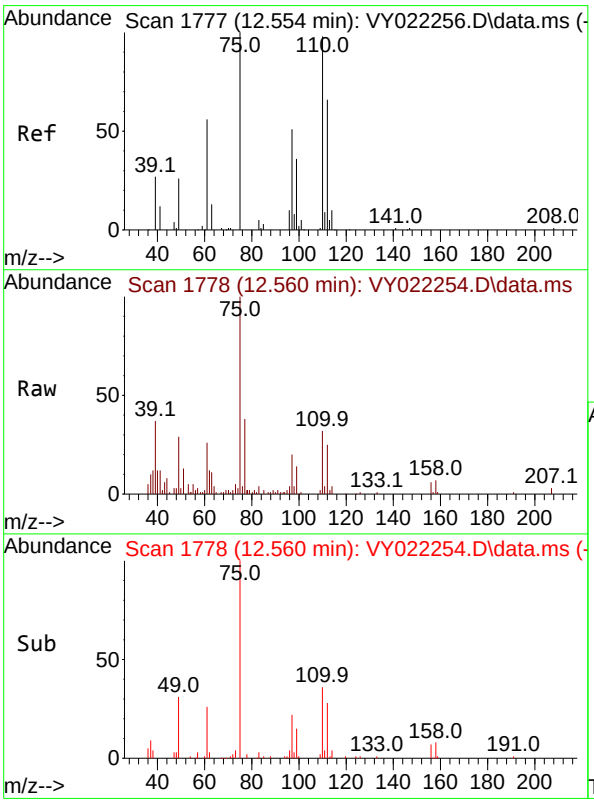
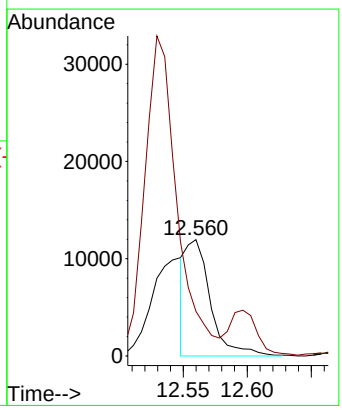


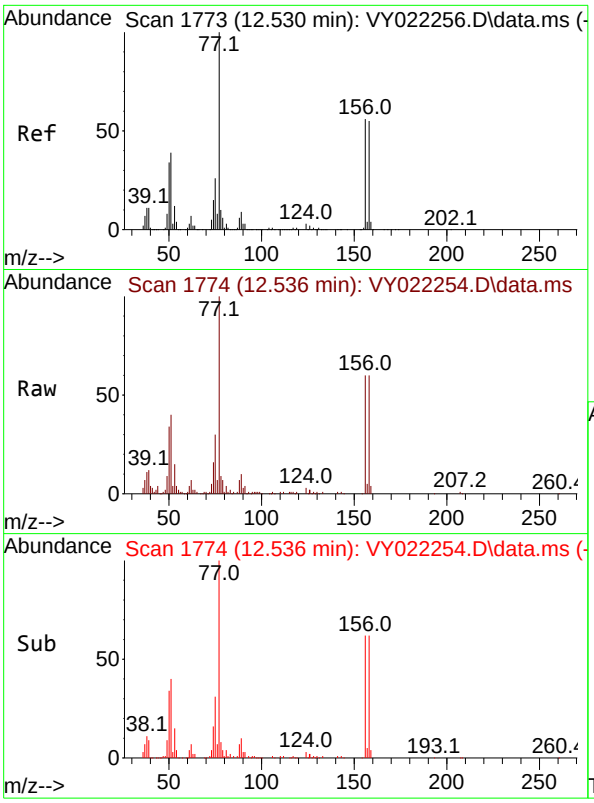


#76
1,2,3-Trichloropropane
Concen: 5.297 ug/l m
RT: 12.560 min Scan# 1778
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 75 Resp: 16056

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

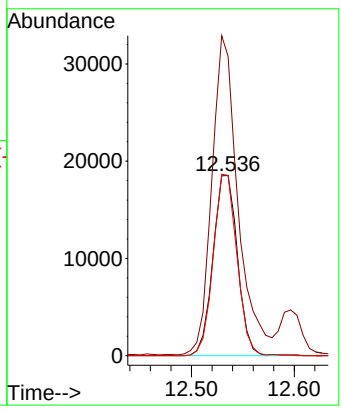




#77
Bromobenzene
Concen: 10.005 ug/l
RT: 12.536 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion:156 Resp: 3044

Ion	Ratio	Lower	Upper
156	100		
77	189.7	94.5	283.6
158	98.1	48.4	145.3



Instrument :
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ClientSampleId :
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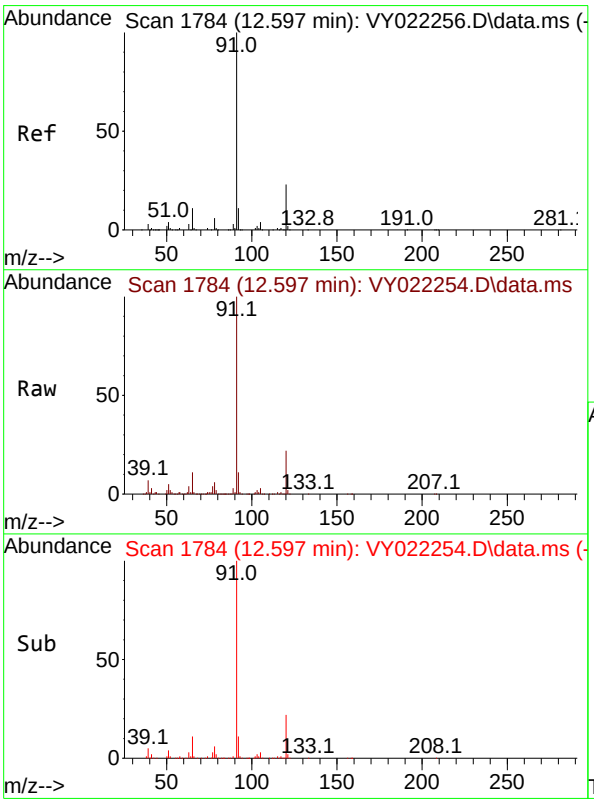
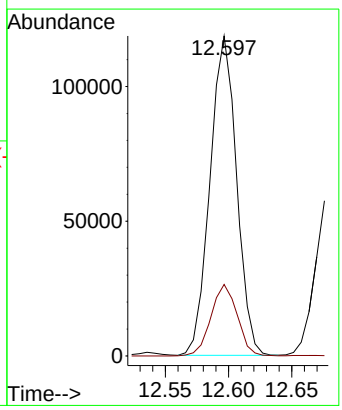
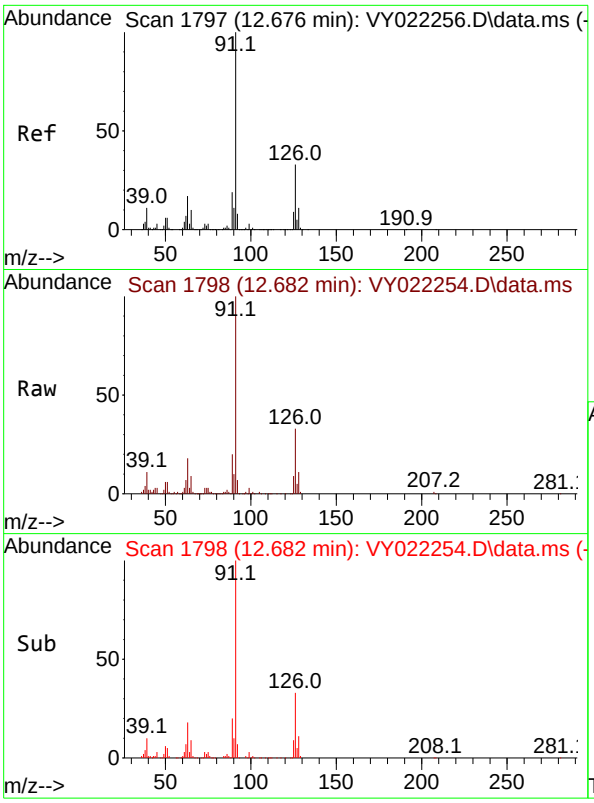


#78
n-propylbenzene
Concen: 10.101 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 91 Resp: 173575

Ion	Ratio	Lower	Upper
91	100		
120	22.1	11.1	33.3

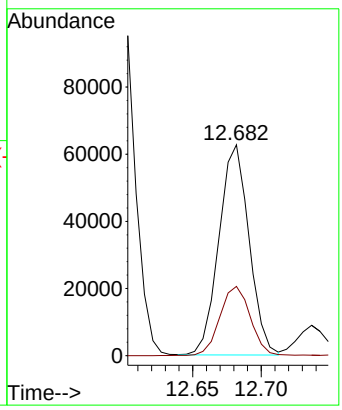




#79
2-Chlorotoluene
Concen: 10.146 ug/l
RT: 12.682 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 91 Resp: 9581

Ion	Ratio	Lower	Upper
91	100		
126	33.6	16.8	50.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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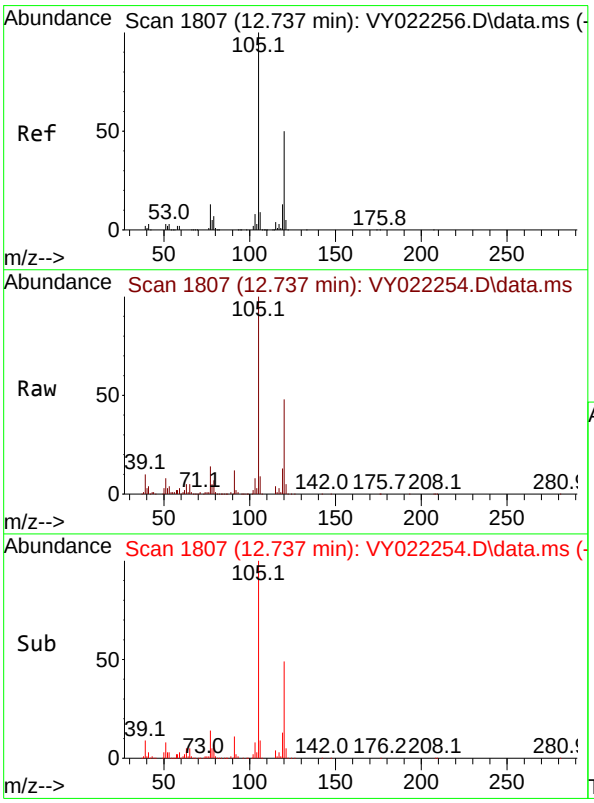
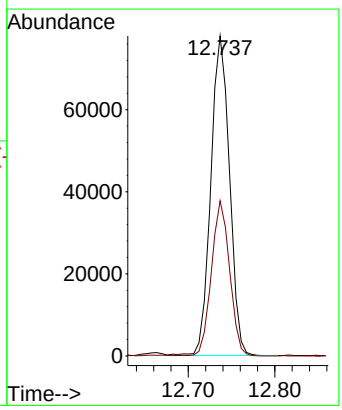
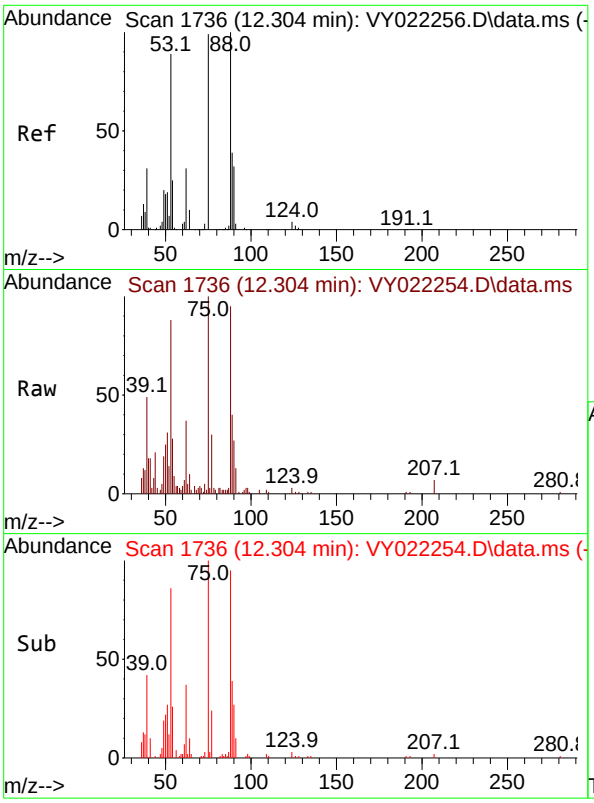


#80
1,3,5-Trimethylbenzene
Concen: 10.126 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion:105 Resp: 116461

Ion	Ratio	Lower	Upper
105	100		
120	47.4	24.2	72.6





#81
trans-1,4-Dichloro-2-butene
Concen: 10.388 ug/l
RT: 12.304 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

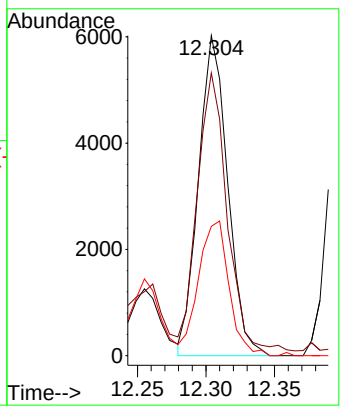
Tgt Ion: 75 Resp: 893

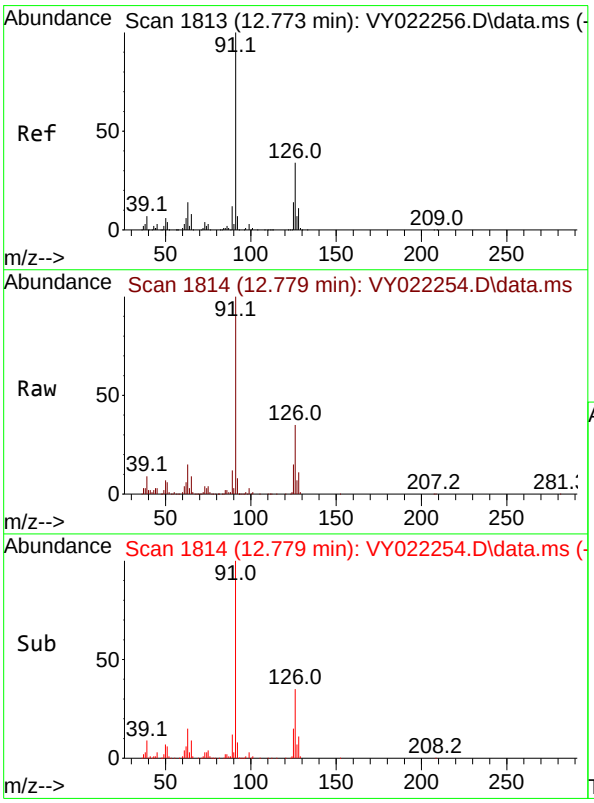
Ion	Ratio	Lower	Upper
75	100		
53	87.6	75.8	113.8
89	44.0	36.2	54.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

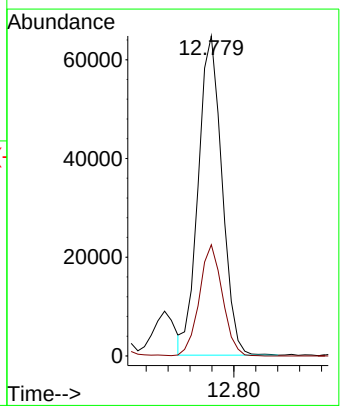


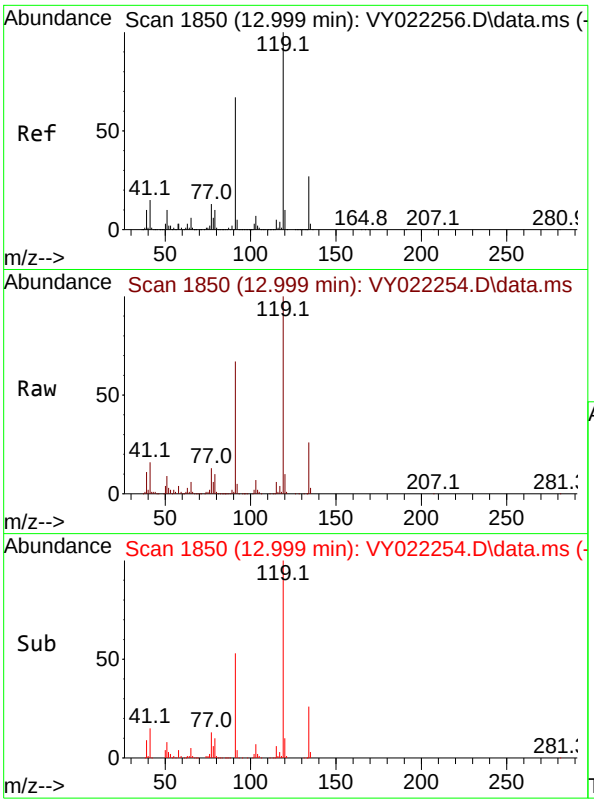


#82
4-Chlorotoluene
Concen: 10.018 ug/l
RT: 12.779 min Scan# 1814
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 91 Resp: 97309

Ion	Ratio	Lower	Upper
91	100		
126	33.9	16.8	50.4

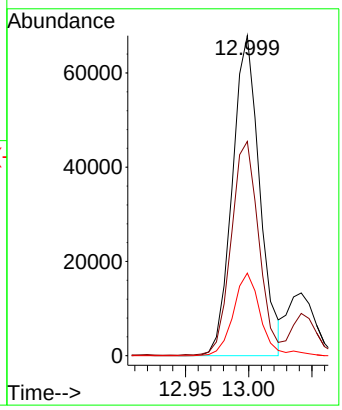




#83
tert-Butylbenzene
Concen: 10.005 ug/l
RT: 12.999 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion:119 Resp: 10227

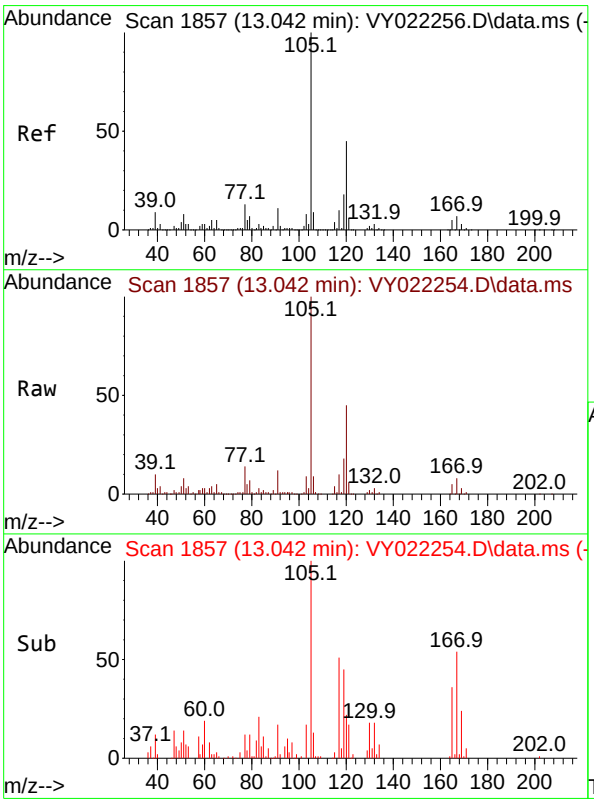
Ion	Ratio	Lower	Upper
119	100		
91	66.9	32.8	98.3
134	25.7	12.9	38.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

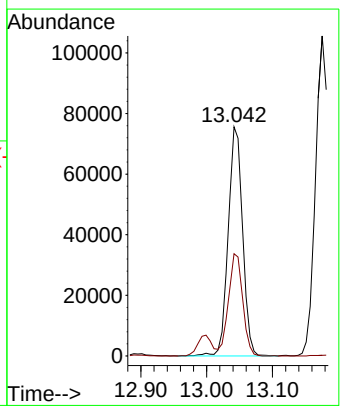
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

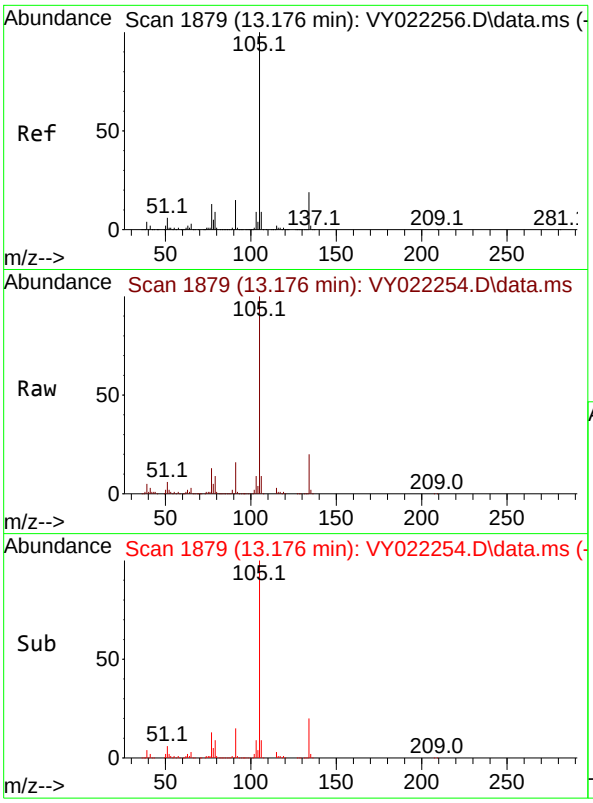


#84
1,2,4-Trimethylbenzene
Concen: 10.088 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion:105 Resp: 115175

Ion	Ratio	Lower	Upper
105	100		
120	44.0	22.3	66.9





#85
sec-Butylbenzene
Concen: 10.112 ug/l
RT: 13.176 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion:105 Resp: 15344

Ion	Ratio	Lower	Upper
105	100		
134	19.9	9.8	29.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

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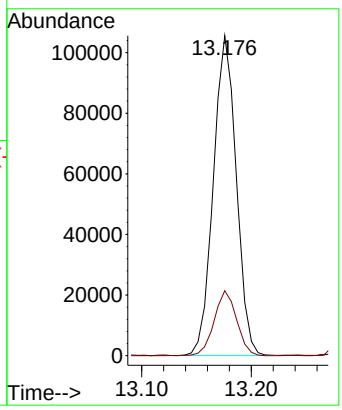
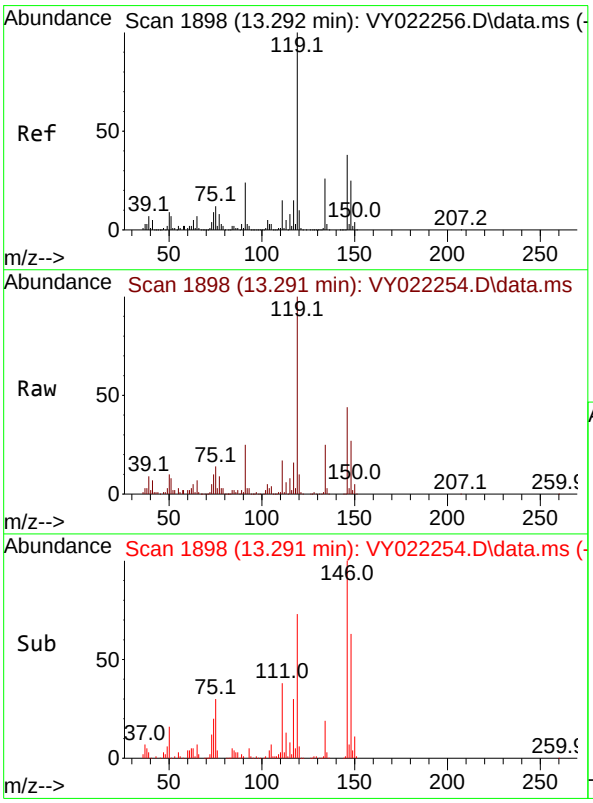
Supervised By :Semsettin Yesilyurt 05/16/2025

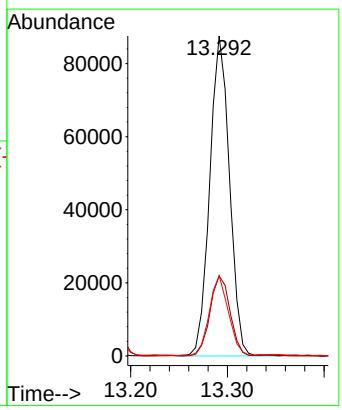


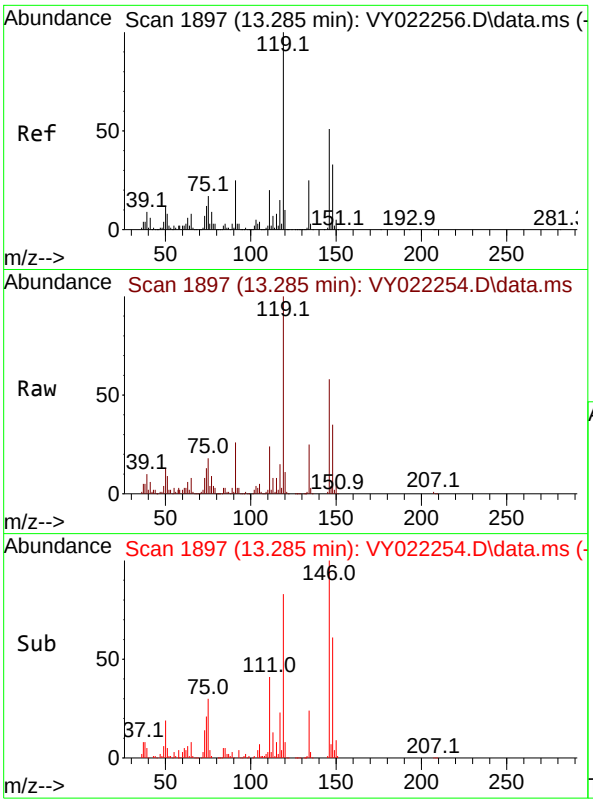


#86
p-Isopropyltoluene
Concen: 9.728 ug/l
RT: 13.291 min Scan# 1898
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion:119 Resp: 124147

Ion	Ratio	Lower	Upper
119	100		
134	25.4	12.9	38.6
91	24.1	12.1	36.3





#87
1,3-Dichlorobenzene
Concen: 9.822 ug/l
RT: 13.285 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

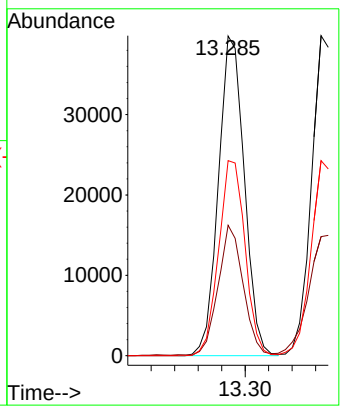
Tgt Ion:146 Resp: 6101

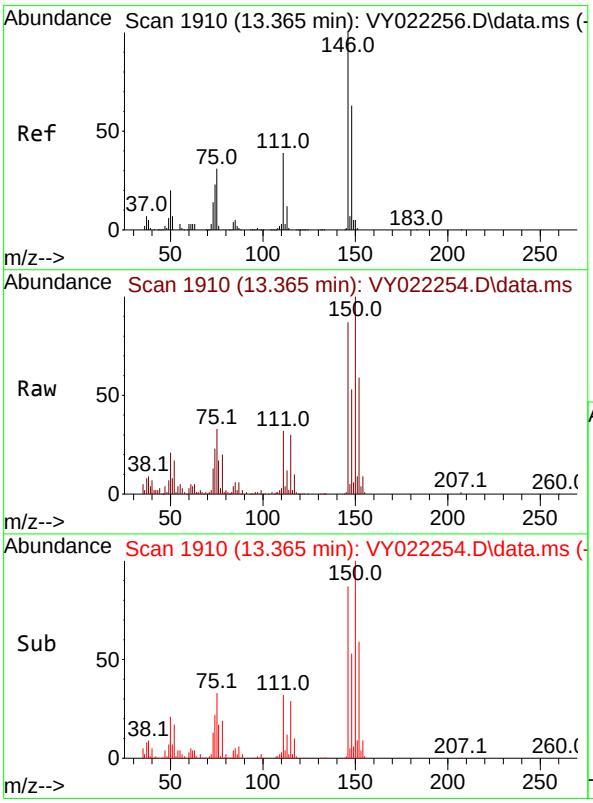
Ion	Ratio	Lower	Upper
146	100		
111	39.3	19.9	59.7
148	62.1	31.9	95.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

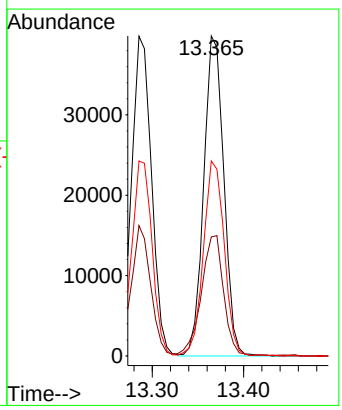


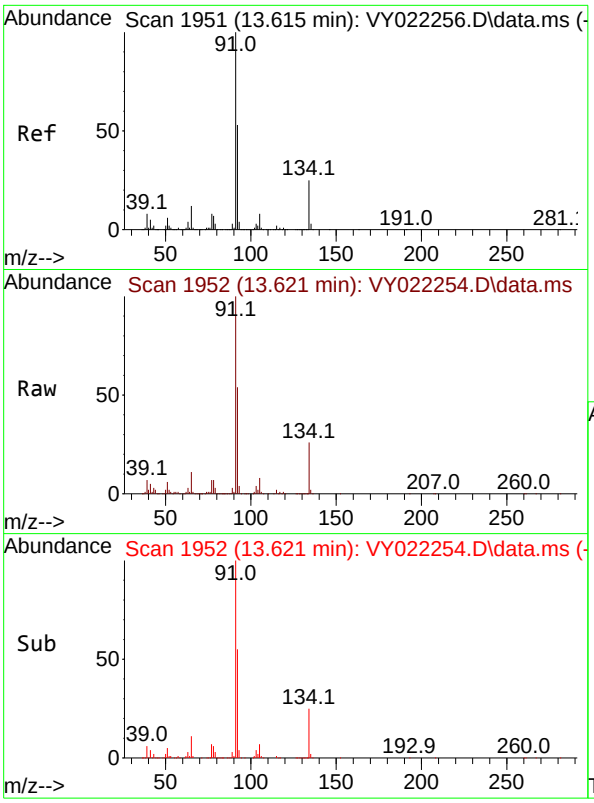


#88
1,4-Dichlorobenzene
Concen: 10.163 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion:146 Resp: 60723

Ion	Ratio	Lower	Upper
146	100		
111	42.0	20.0	59.9
148	62.5	32.1	96.5

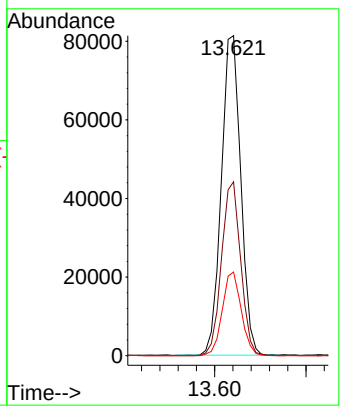




#89
n-Butylbenzene
Concen: 9.970 ug/l
RT: 13.621 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 91 Resp: 12037

Ion	Ratio	Lower	Upper
91	100		
92	53.6	26.3	78.9
134	25.5	12.4	37.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
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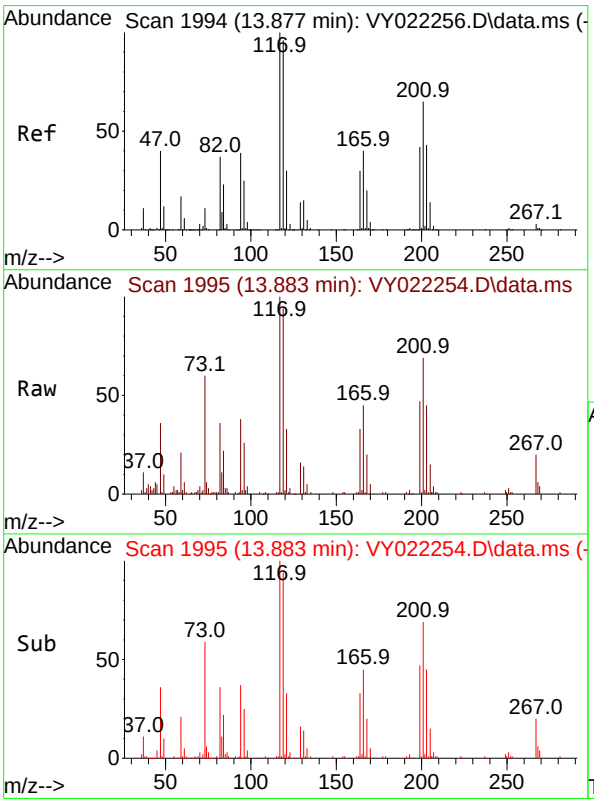
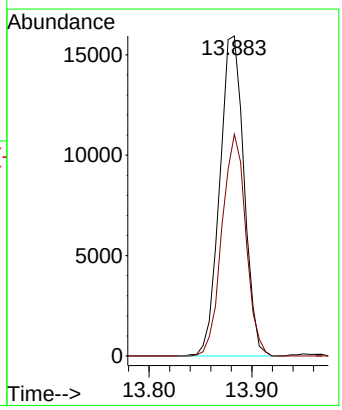
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

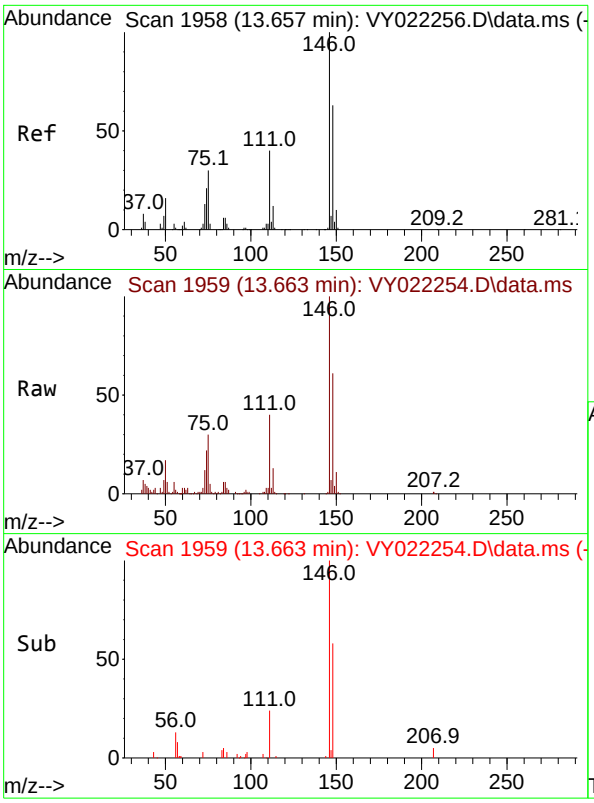


#90
Hexachloroethane
Concen: 10.127 ug/l
RT: 13.883 min Scan# 1995
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion:117 Resp: 26089

Ion	Ratio	Lower	Upper
117	100		
201	68.2	35.2	105.6

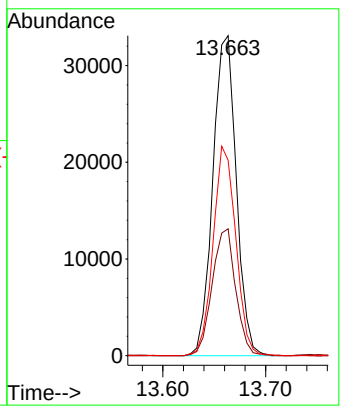




#91
1,2-Dichlorobenzene
Concen: 10.020 ug/l
RT: 13.663 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion:146 Resp: 5228

Ion	Ratio	Lower	Upper
146	100		
111	39.9	20.5	61.5
148	63.5	32.0	96.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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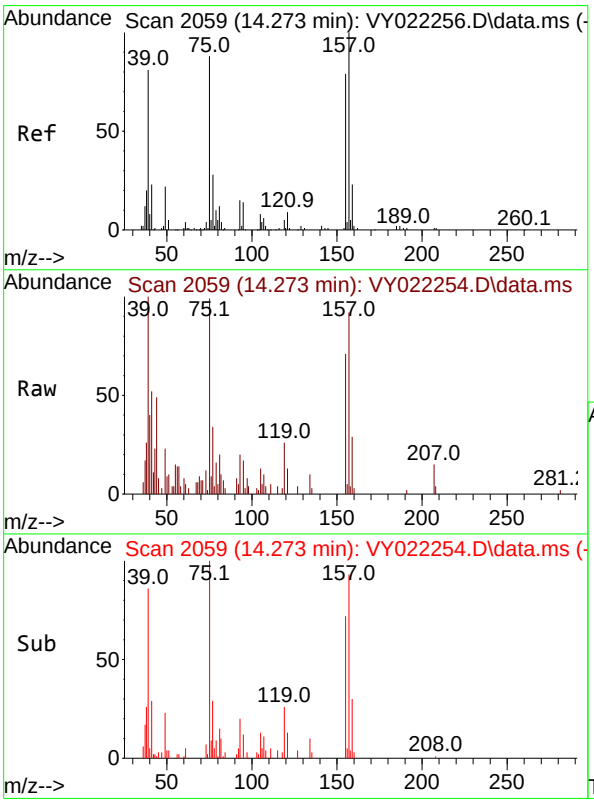
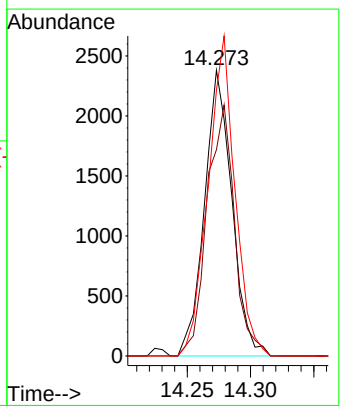
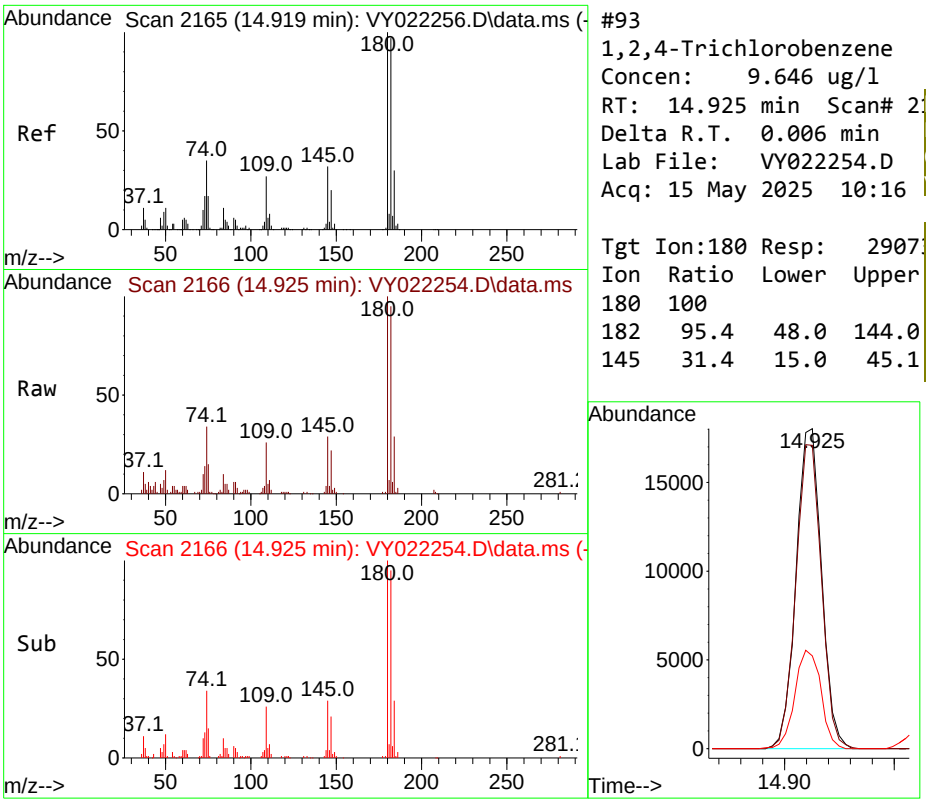


#92
1,2-Dibromo-3-Chloropropane
Concen: 10.155 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 75 Resp: 3588

Ion	Ratio	Lower	Upper
75	100		
155	88.0	43.4	130.1
157	109.8	54.6	163.9





#93
1,2,4-Trichlorobenzene
Concen: 9.646 ug/l
RT: 14.925 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion:180 Resp: 2907

Ion	Ratio	Lower	Upper
180	100		
182	95.4	48.0	144.0
145	31.4	15.0	45.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
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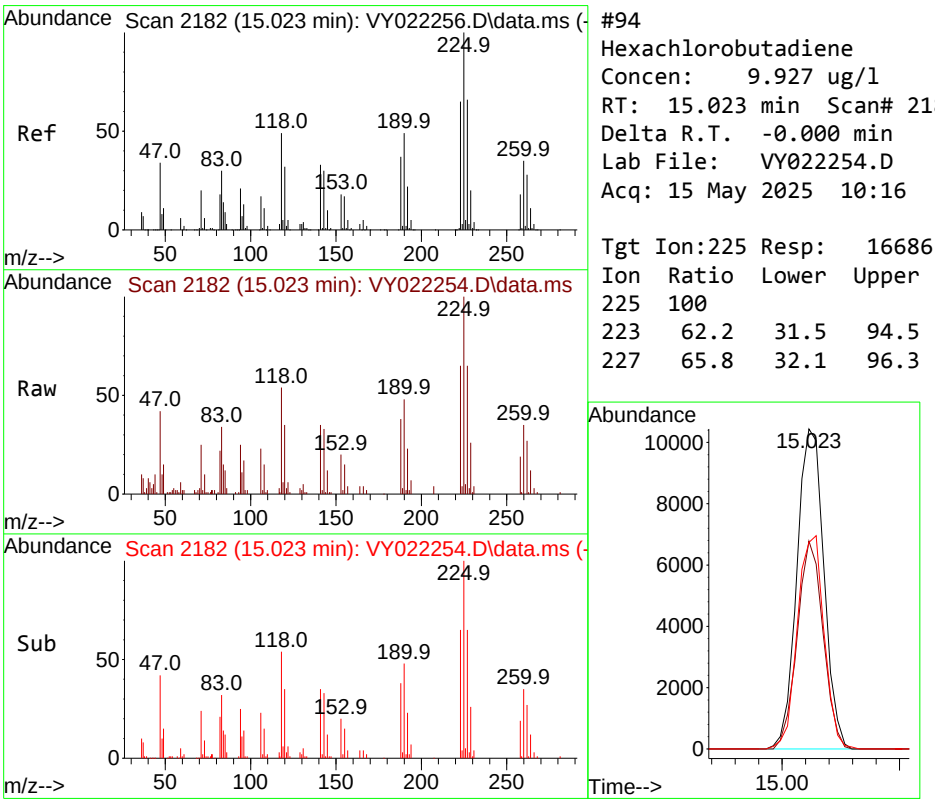
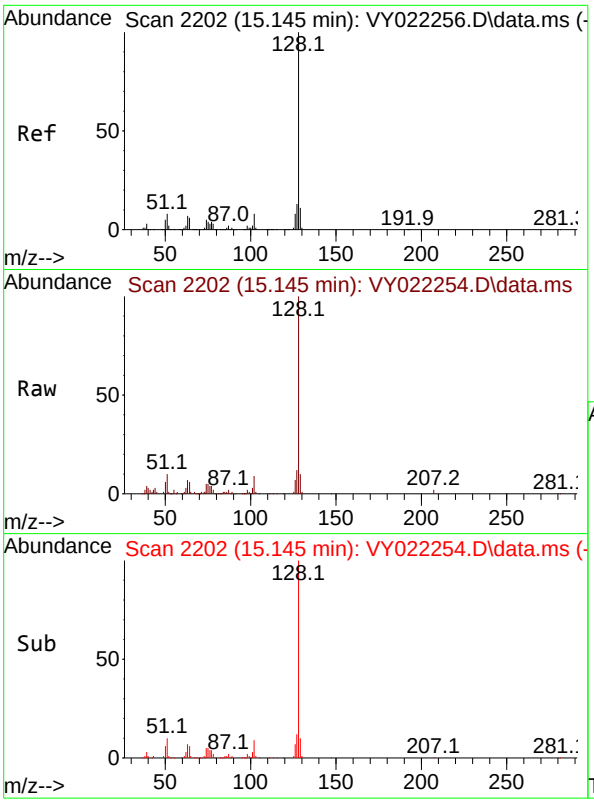


#94
Hexachlorobutadiene
Concen: 9.927 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion:225 Resp: 16686

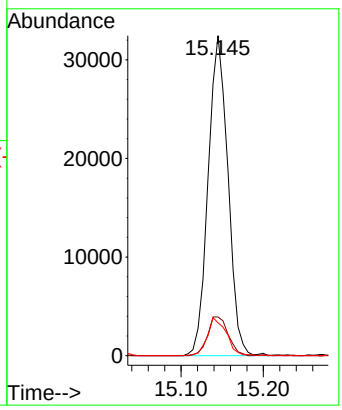
Ion	Ratio	Lower	Upper
225	100		
223	62.2	31.5	94.5
227	65.8	32.1	96.3



#95
Naphthalene
Concen: 9.495 ug/l
RT: 15.145 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion:128 Resp: 5430

Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.2	15.2
129	11.5	8.8	13.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

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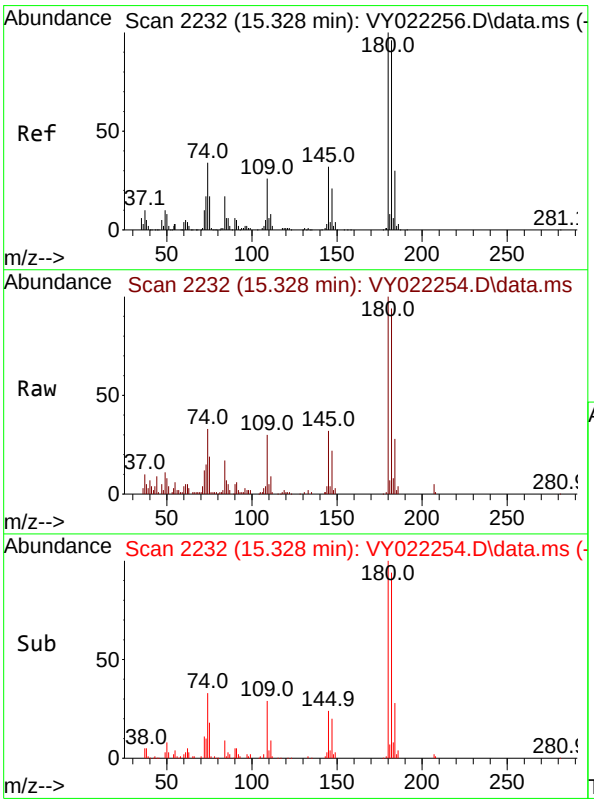
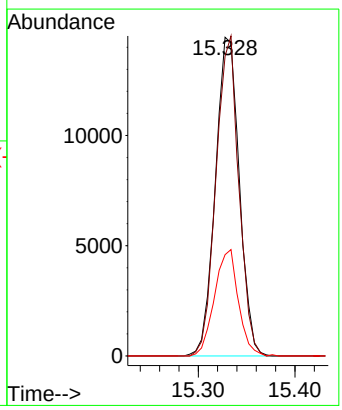


#96
1,2,3-Trichlorobenzene
Concen: 9.696 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion:180 Resp: 24790

Ion	Ratio	Lower	Upper
180	100		
182	95.5	47.1	141.3
145	33.4	15.9	47.6



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Data File : VY022255.D
Acq On : 15 May 2025 10:39
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

Quant Time: May 16 01:22:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:19:39 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	7.707	168	262008	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	8.616	114	439816	50.000	ug/l		0.00
63) Chlorobenzene-d5	11.414	117	370072	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	172509	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	8.061	65	55221	19.284	ug/l		0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	38.560%#			
35) Dibromofluoromethane	7.634	113	51670	19.683	ug/l		0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	39.360%#			
50) Toluene-d8	10.109	98	210206	19.552	ug/l		0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	39.100%#			
62) 4-Bromofluorobenzene	12.408	95	64706	18.988	ug/l		0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	37.980%			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.867	85	56737	20.753	ug/l		99
3) Chloromethane	2.068	50	120819	21.008	ug/l		97
4) Vinyl Chloride	2.202	62	132511	20.623	ug/l		96
5) Bromomethane	2.592	94	110855	21.194	ug/l		99
6) Chloroethane	2.732	64	83451	20.877	ug/l		99
7) Trichlorofluoromethane	3.050	101	132029	20.295	ug/l		97
8) Diethyl Ether	3.458	74	29651	18.993	ug/l		98
9) 1,1,2-Trichlorotrifluo...	3.812	101	57012	20.187	ug/l		98
10) Methyl Iodide	4.001	142	65018	19.891	ug/l		98
11) Tert butyl alcohol	4.872	59	19585	89.565	ug/l	#	100
12) 1,1-Dichloroethene	3.787	96	56630	20.206	ug/l		98
13) Acrolein	3.653	56	30106	94.178	ug/l		91
14) Allyl chloride	4.385	41	99483	20.244	ug/l		100
15) Acrylonitrile	5.061	53	60119	93.456	ug/l		100
16) Acetone	3.873	43	50198	93.491	ug/l		96
17) Carbon Disulfide	4.104	76	184860	20.228	ug/l		99
18) Methyl Acetate	4.391	43	29969	18.344	ug/l		96
19) Methyl tert-butyl Ether	5.116	73	145976	18.890	ug/l		100
20) Methylene Chloride	4.616	84	67687	19.510	ug/l		99
21) trans-1,2-Dichloroethene	5.116	96	63174	20.422	ug/l		97
22) Diisopropyl ether	6.019	45	202960	19.558	ug/l		99
23) Vinyl Acetate	5.958	43	594019	94.748	ug/l		99
24) 1,1-Dichloroethane	5.915	63	115217	19.873	ug/l		99
25) 2-Butanone	6.896	43	82768	92.157	ug/l		93
26) 2,2-Dichloropropane	6.890	77	101725	19.727	ug/l		99
27) cis-1,2-Dichloroethene	6.890	96	70008	19.611	ug/l		98
28) Bromochloromethane	7.244	49	48933	19.787	ug/l		100
29) Tetrahydrofuran	7.262	42	53229	92.122	ug/l		98
30) Chloroform	7.421	83	111815	20.107	ug/l		98
31) Cyclohexane	7.695	56	112876	19.486	ug/l		97
32) 1,1,1-Trichloroethane	7.616	97	100618	19.721	ug/l		100
36) 1,1-Dichloropropene	7.835	75	85789	19.841	ug/l		99
37) Ethyl Acetate	6.988	43	38482	18.497	ug/l		99
38) Carbon Tetrachloride	7.817	117	86871	19.410	ug/l		98
39) Methylcyclohexane	9.109	83	113511	19.540	ug/l		98
40) Benzene	8.079	78	252507	19.700	ug/l		98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022255.D
Acq On : 15 May 2025 10:39
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 16 01:22:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:19:39 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.213	41	26008m	17.085	ug/l		
42) 1,2-Dichloroethane	8.158	62	66525	19.192	ug/l		99
43) Isopropyl Acetate	8.201	43	84532	18.631	ug/l		97
44) Trichloroethene	8.866	130	63438	19.904	ug/l		96
45) 1,2-Dichloropropane	9.140	63	60438	19.557	ug/l		100
46) Dibromomethane	9.231	93	31752	19.050	ug/l		99
47) Bromodichloromethane	9.426	83	83823	19.385	ug/l		96
48) Methyl methacrylate	9.219	41	39387	18.563	ug/l		99
49) 1,4-Dioxane	9.237	88	7312	388.323	ug/l		93
51) 4-Methyl-2-Pentanone	9.999	43	202454	90.940	ug/l		99
52) Toluene	10.170	92	156498	19.281	ug/l		100
53) t-1,3-Dichloropropene	10.396	75	80413	19.056	ug/l		98
54) cis-1,3-Dichloropropene	9.853	75	94074	19.458	ug/l		99
55) 1,1,2-Trichloroethane	10.573	97	40872	19.149	ug/l		99
56) Ethyl methacrylate	10.438	69	62193	18.706	ug/l		97
57) 1,3-Dichloropropane	10.713	76	72715	19.175	ug/l		98
58) 2-Chloroethyl Vinyl ether	9.707	63	126240	84.595	ug/l		99
59) 2-Hexanone	10.762	43	132496	88.766	ug/l		100
60) Dibromochloromethane	10.914	129	52353	18.898	ug/l		98
61) 1,2-Dibromoethane	11.012	107	37735	18.969	ug/l		99
64) Tetrachloroethene	10.646	164	69548	20.332	ug/l		98
65) Chlorobenzene	11.438	112	163725	19.610	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.518	131	55078	19.189	ug/l		98
67) Ethyl Benzene	11.518	91	303375	19.402	ug/l		99
68) m/p-Xylenes	11.627	106	225990	38.355	ug/l		100
69) o-Xylene	11.956	106	106998	19.194	ug/l		100
70) Styrene	11.969	104	179114	19.048	ug/l		99
71) Bromoform	12.133	173	28788	18.582	ug/l	#	98
73) Isopropylbenzene	12.255	105	282895	19.795	ug/l		100
74) N-amyl acetate	12.072	43	76841	18.799	ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.505	83	40064	18.228	ug/l		97
76) 1,2,3-Trichloropropane	12.554	75	35574m	11.701	ug/l		
77) Bromobenzene	12.530	156	58515	19.170	ug/l		99
78) n-propylbenzene	12.597	91	338383	19.630	ug/l		99
79) 2-Chlorotoluene	12.682	91	185872	19.621	ug/l		99
80) 1,3,5-Trimethylbenzene	12.737	105	225966	19.587	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.304	75	16653	19.302	ug/l		97
82) 4-Chlorotoluene	12.779	91	189350	19.433	ug/l		100
83) tert-Butylbenzene	12.999	119	200101	19.515	ug/l		99
84) 1,2,4-Trimethylbenzene	13.042	105	221194	19.315	ug/l		98
85) sec-Butylbenzene	13.176	105	297975	19.576	ug/l		100
86) p-Isopropyltoluene	13.292	119	246569	19.261	ug/l		99
87) 1,3-Dichlorobenzene	13.285	146	118336	18.991	ug/l		99
88) 1,4-Dichlorobenzene	13.365	146	117705	19.638	ug/l		99
89) n-Butylbenzene	13.615	91	240857	19.887	ug/l		99
90) Hexachloroethane	13.877	117	50762	19.643	ug/l		98
91) 1,2-Dichlorobenzene	13.657	146	102077	19.502	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	6387	18.021	ug/l		98
93) 1,2,4-Trichlorobenzene	14.919	180	58490	19.346	ug/l		99
94) Hexachlorobutadiene	15.023	225	34228	20.301	ug/l		100
95) Naphthalene	15.145	128	105350	18.362	ug/l		100
96) 1,2,3-Trichlorobenzene	15.328	180	48444	18.888	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022255.D
Acq On : 15 May 2025 10:39
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

Quant Time: May 16 01:22:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:19:39 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022255.D
Acq On : 15 May 2025 10:39
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 16 01:22:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:19:39 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

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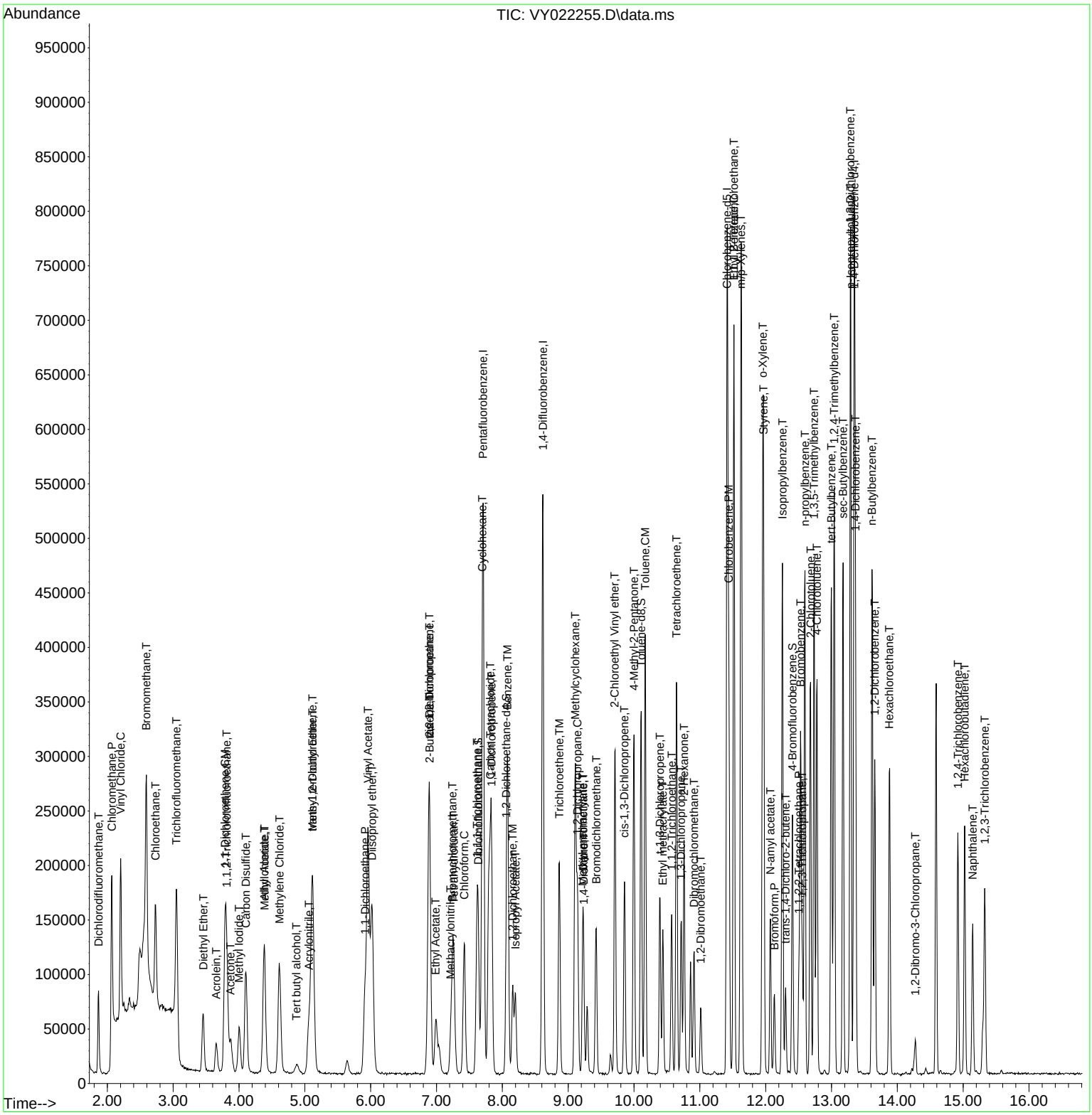

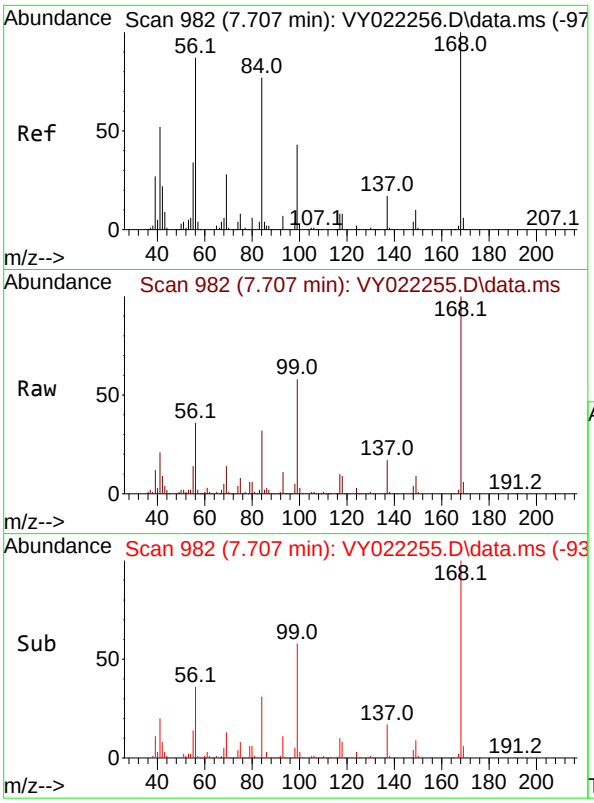

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion:168 Resp: 26200

Ion	Ratio	Lower	Upper
168	100		
99	58.3	44.2	66.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

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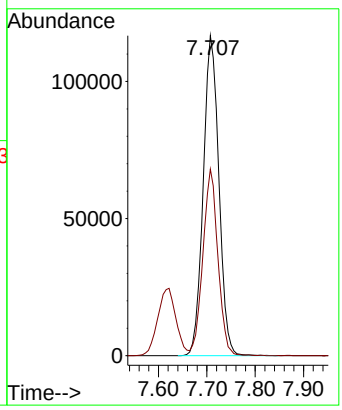
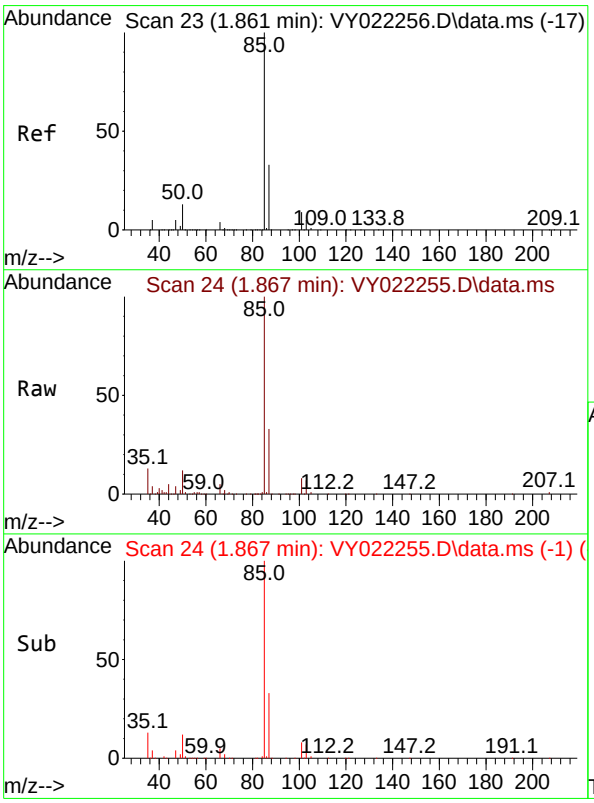
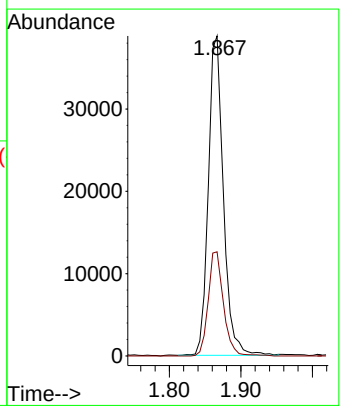


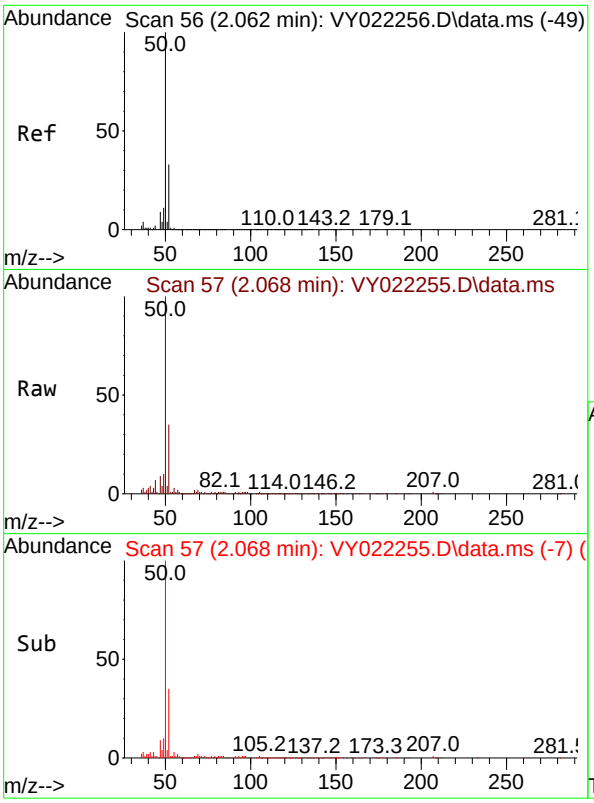


#2
Dichlorodifluoromethane
Concen: 20.753 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.006 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 85 Resp: 56737

Ion	Ratio	Lower	Upper
85	100		
87	32.6	16.5	49.5

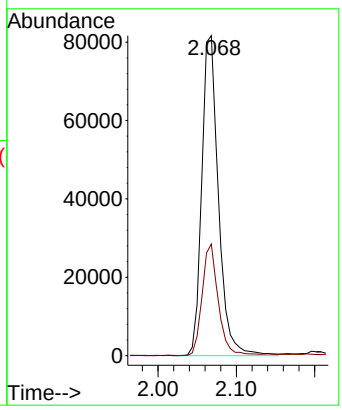




#3
Chloromethane
Concen: 21.008 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 50 Resp: 12081

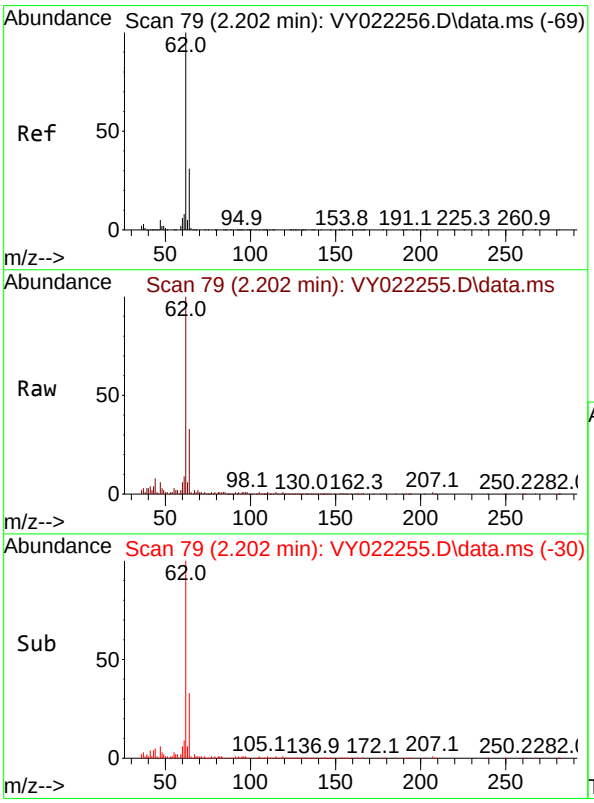
Ion	Ratio	Lower	Upper
50	100		
52	34.9	26.5	39.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

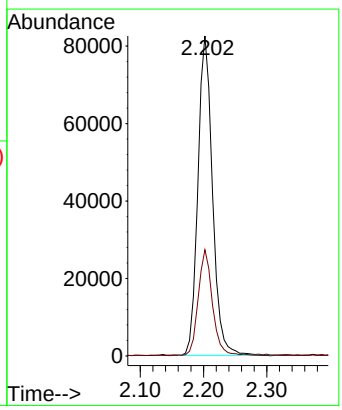
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

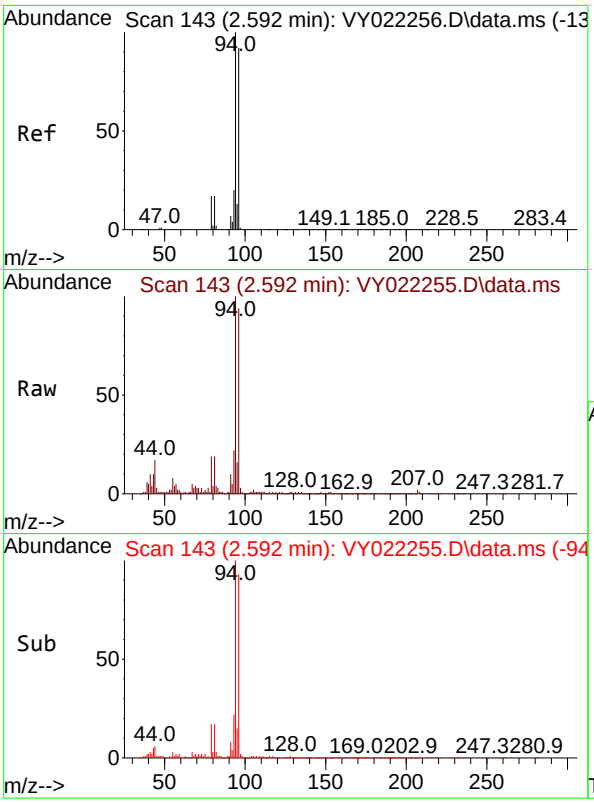


#4
Vinyl Chloride
Concen: 20.623 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 62 Resp: 132511

Ion	Ratio	Lower	Upper
62	100		
64	33.0	24.5	36.7





#5
Bromomethane
Concen: 21.194 ug/l
RT: 2.592 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

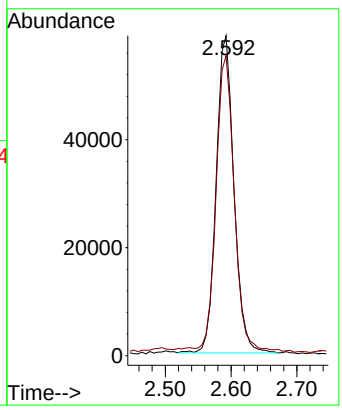
Tgt Ion: 94 Resp: 11085

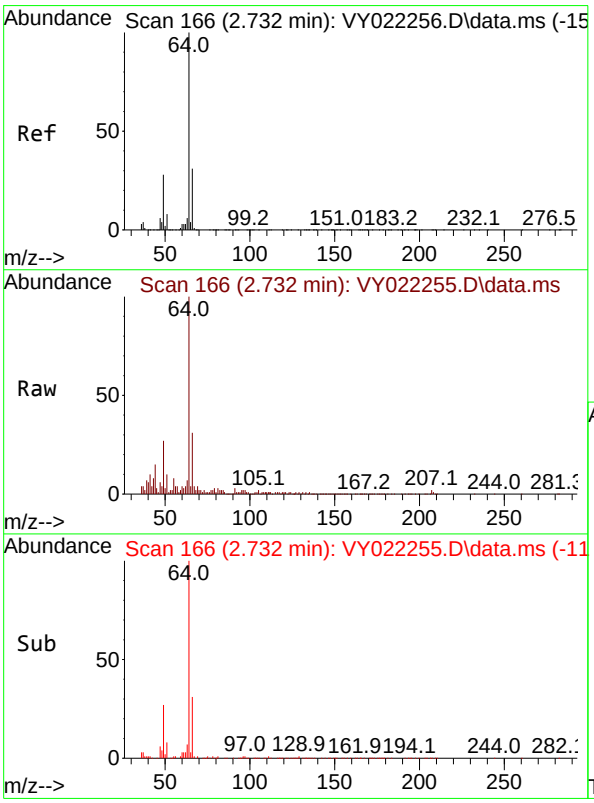
Ion	Ratio	Lower	Upper
94	100		
96	92.6	73.4	110.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

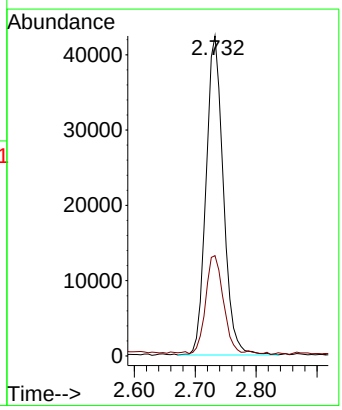


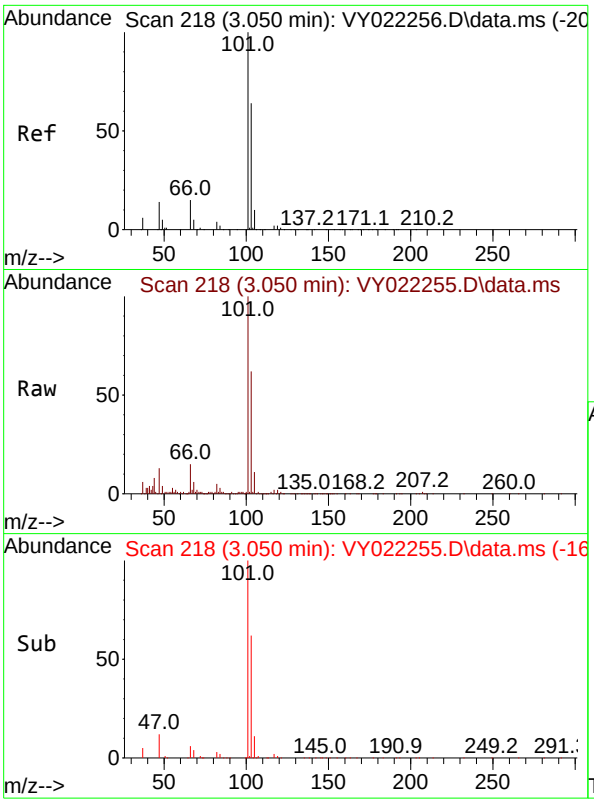


#6
Chloroethane
Concen: 20.877 ug/l
RT: 2.732 min Scan# 166
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 64 Resp: 83451

Ion	Ratio	Lower	Upper
64	100		
66	30.4	24.8	37.2

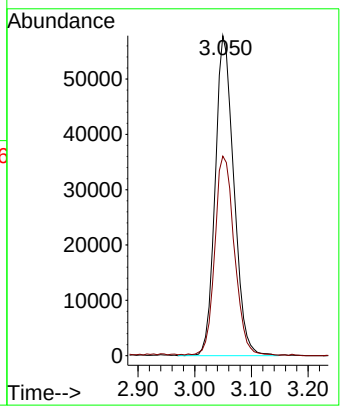




#7
Trichlorofluoromethane
Concen: 20.295 ug/l
RT: 3.050 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion:101 Resp: 13202

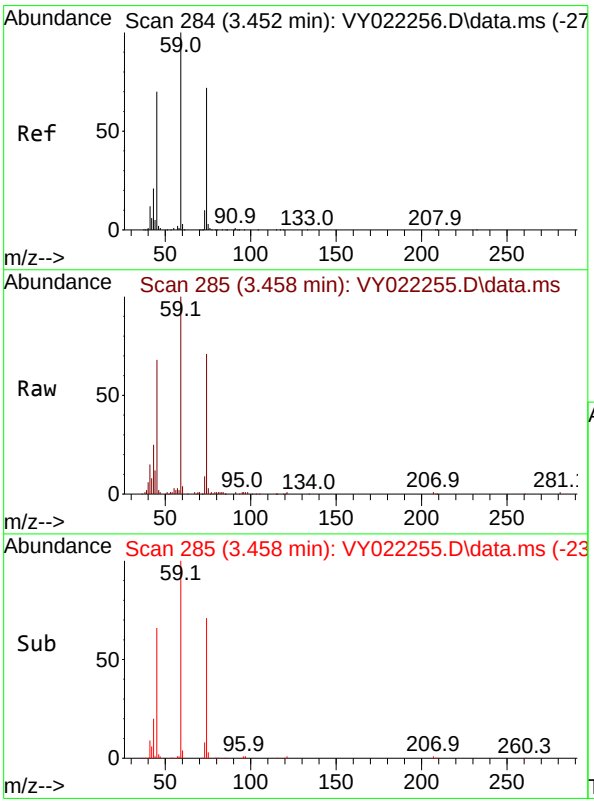
Ion	Ratio	Lower	Upper
101	100		
103	62.2	51.7	77.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

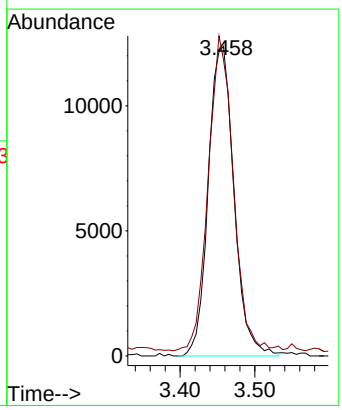
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

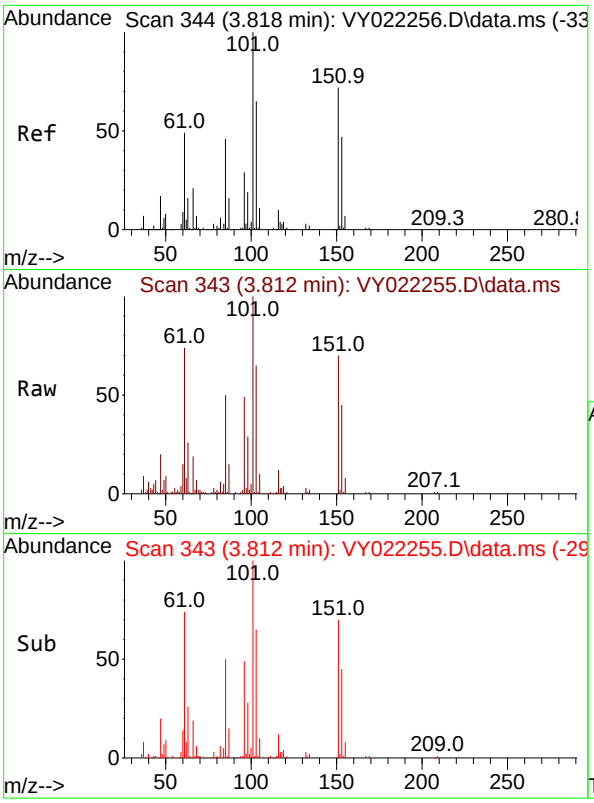


#8
Diethyl Ether
Concen: 18.993 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.006 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 74 Resp: 29651

Ion	Ratio	Lower	Upper
74	100		
45	99.0	48.6	145.8

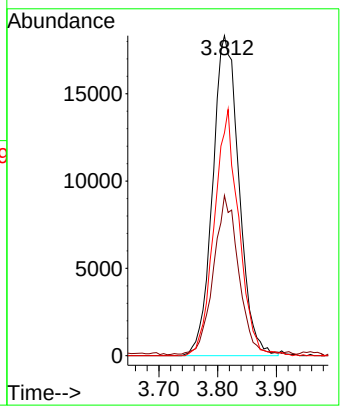




#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.187 ug/l
RT: 3.812 min Scan# 3
Delta R.T. -0.006 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion:101 Resp: 5701

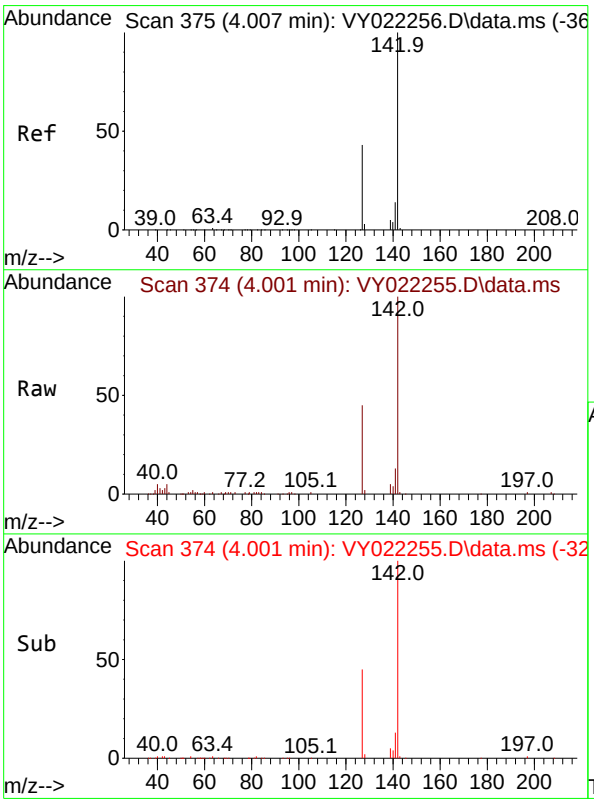
Ion	Ratio	Lower	Upper
101	100		
85	47.7	38.6	58.0
151	71.9	59.7	89.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

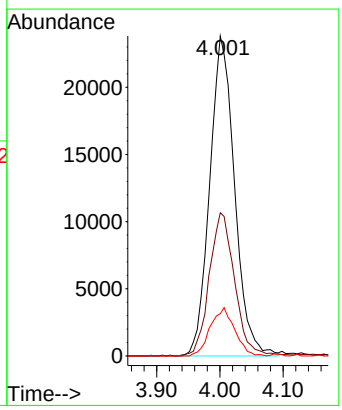
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

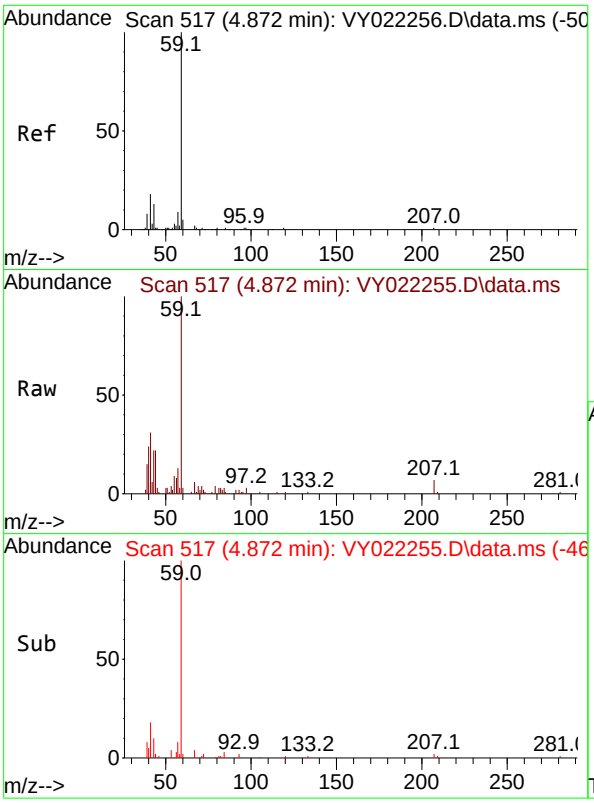


#10
Methyl Iodide
Concen: 19.891 ug/l
RT: 4.001 min Scan# 374
Delta R.T. -0.006 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion:142 Resp: 65018

Ion	Ratio	Lower	Upper
142	100		
127	45.5	35.7	53.5
141	14.8	11.1	16.7

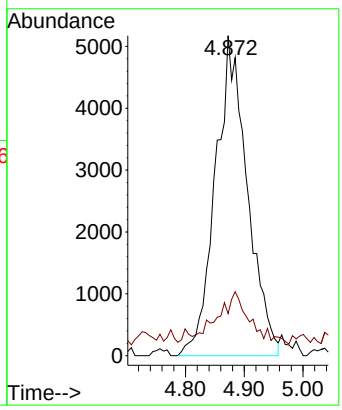




#11
Tert butyl alcohol
Concen: 89.565 ug/l
RT: 4.872 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 59 Resp: 1958

Ion	Ratio	Lower	Upper
59	100		
57	16.5	0.0	0.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 05/16/2025
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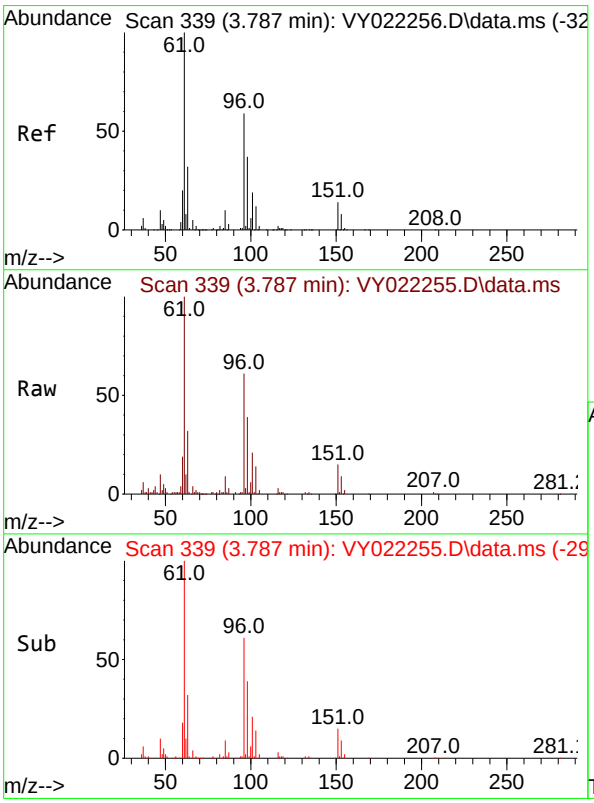
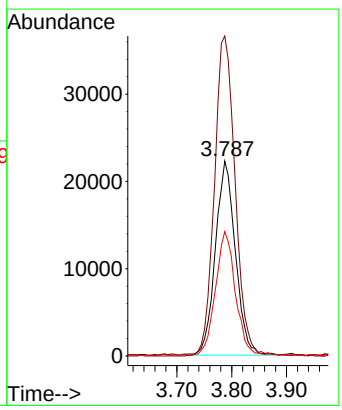
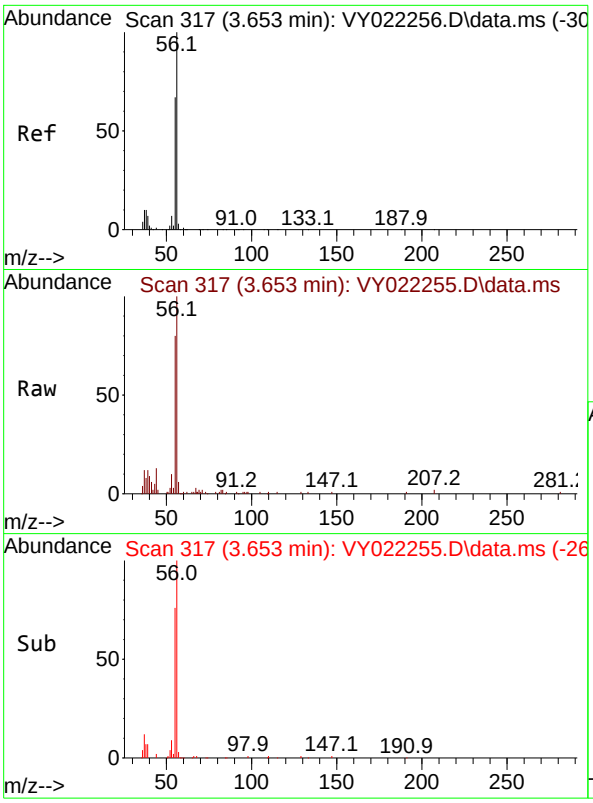


#12
1,1-Dichloroethene
Concen: 20.206 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 96 Resp: 56630

Ion	Ratio	Lower	Upper
96	100		
61	164.8	134.9	202.3
98	63.5	49.9	74.9

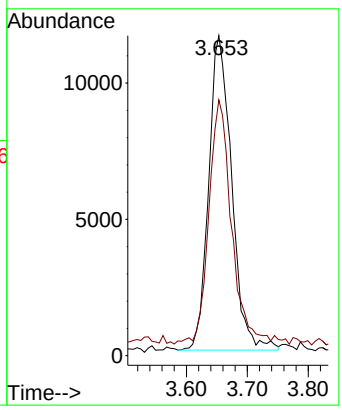




#13
Acrolein
Concen: 94.178 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 56 Resp: 3010

Ion	Ratio	Lower	Upper
56	100		
55	76.6	55.6	83.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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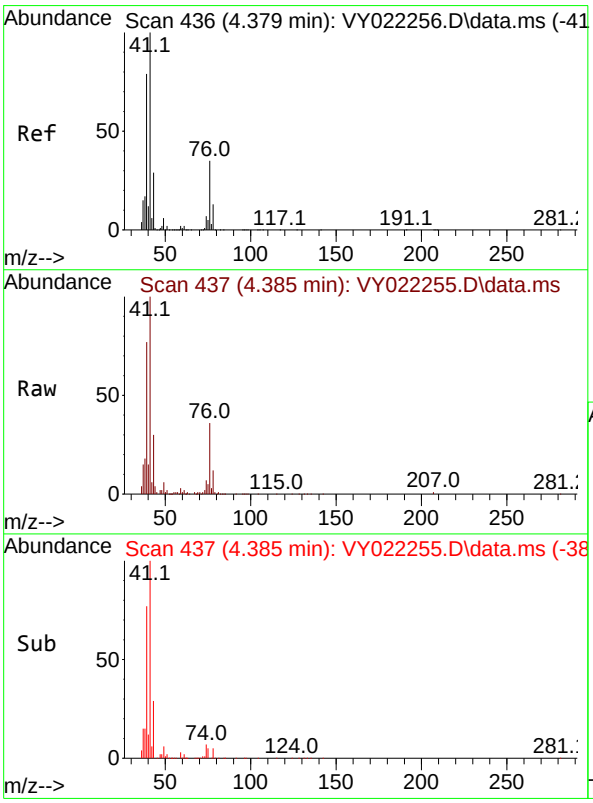
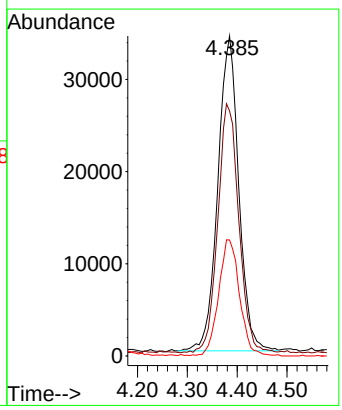
Supervised By :Semsettin Yesilyurt 05/16/2025

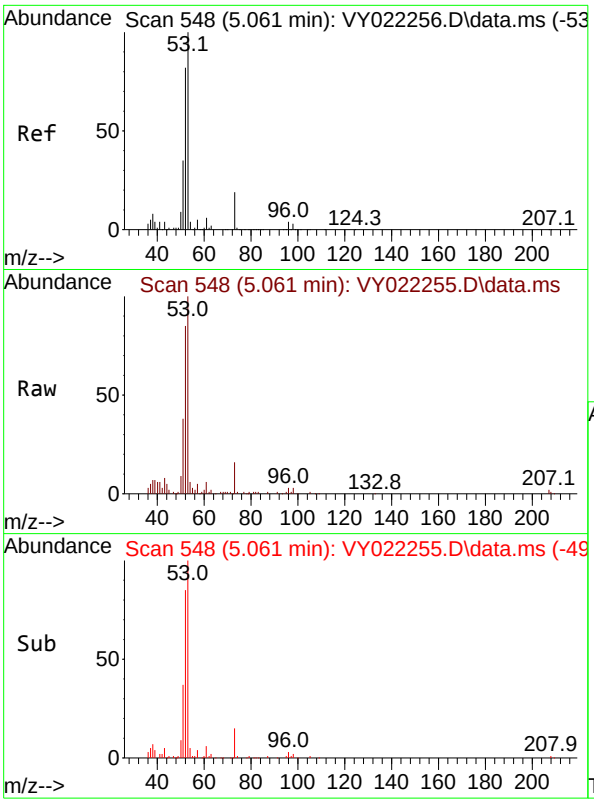


#14
Allyl chloride
Concen: 20.244 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 41 Resp: 99483

Ion	Ratio	Lower	Upper
41	100		
39	79.7	63.4	95.0
76	37.1	29.5	44.3





#15
Acrylonitrile
Concen: 93.456 ug/l
RT: 5.061 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 53 Resp: 6011

Ion	Ratio	Lower	Upper
53	100		
52	83.1	66.1	99.1
51	37.6	30.0	45.0

Instrument :
MSVOA_Y
ClientSampleId :
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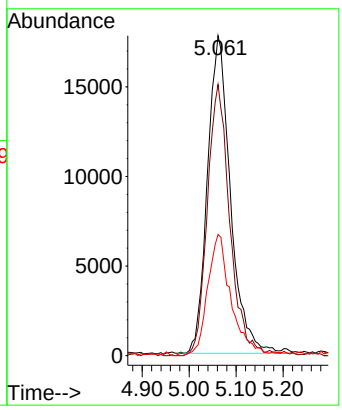
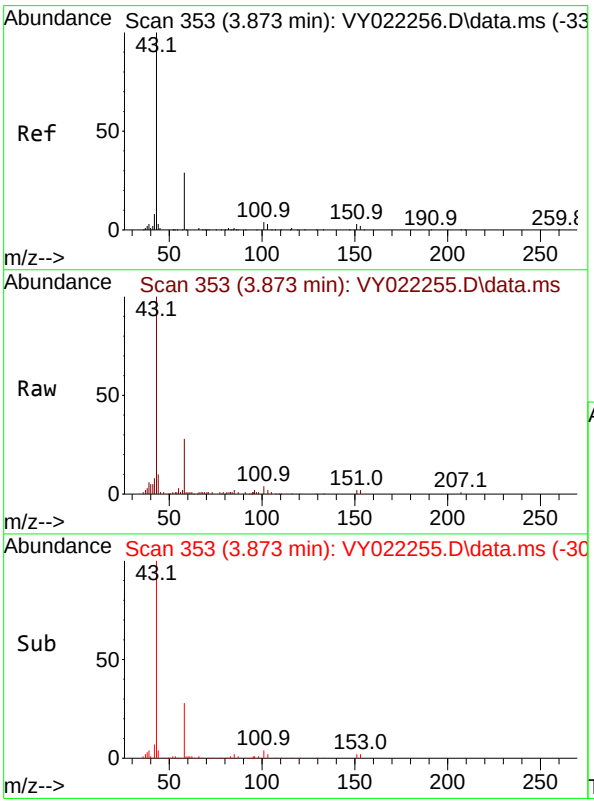
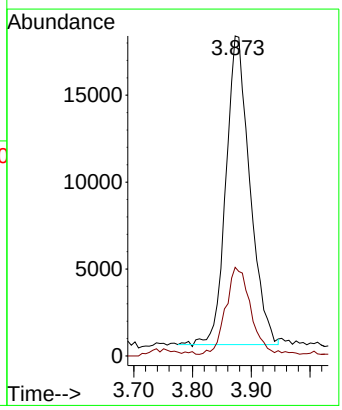


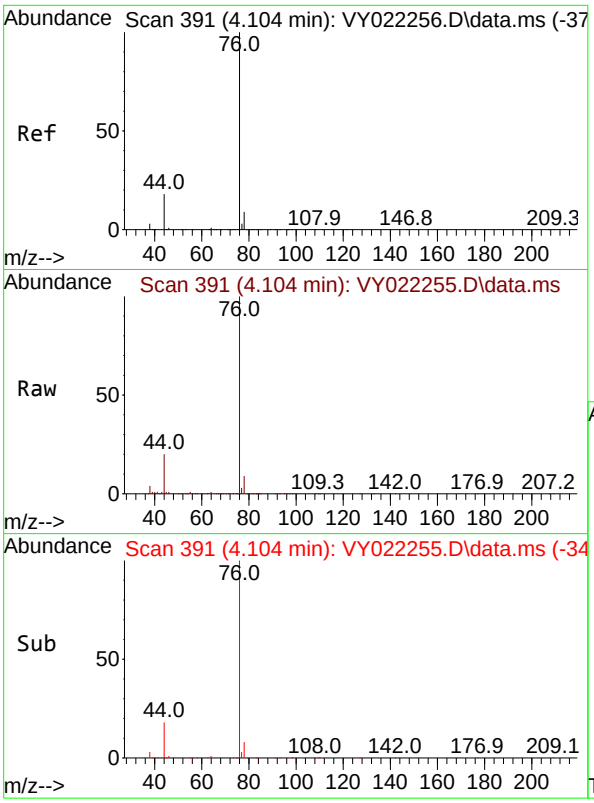


#16
Acetone
Concen: 93.491 ug/l
RT: 3.873 min Scan# 353
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 43 Resp: 50198

Ion	Ratio	Lower	Upper
43	100		
58	27.5	23.6	35.4

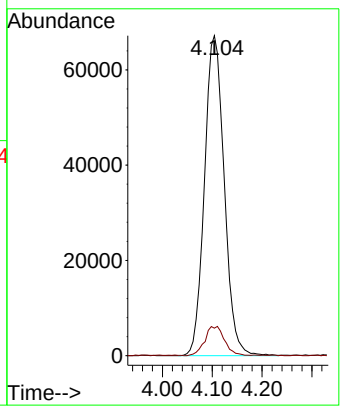




#17
Carbon Disulfide
Concen: 20.228 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 76 Resp: 18486

Ion	Ratio	Lower	Upper
76	100		
78	8.6	7.2	10.8



Instrument :
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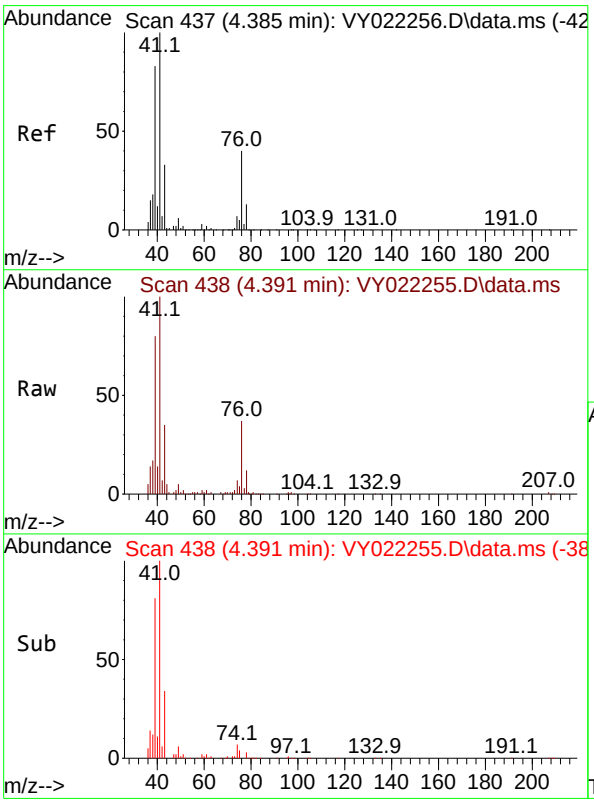
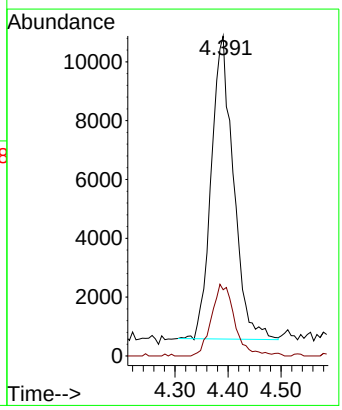
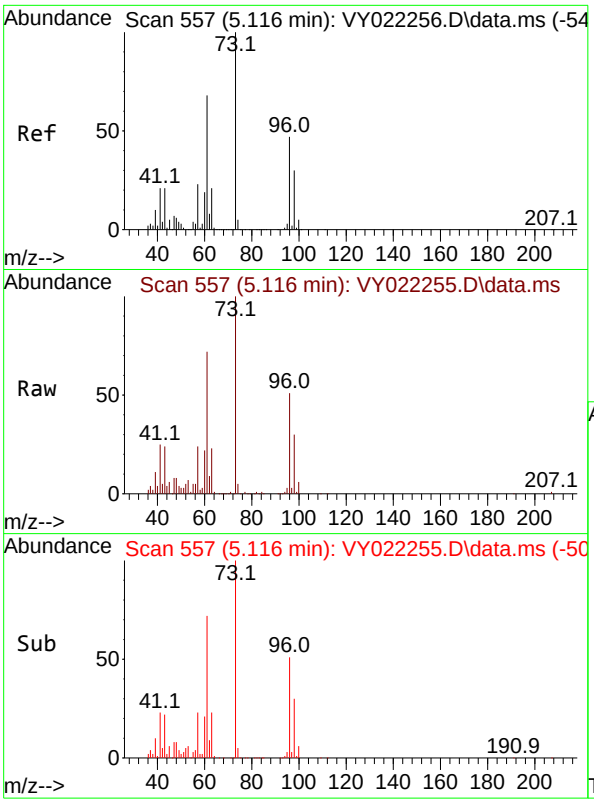


#18
Methyl Acetate
Concen: 18.344 ug/l
RT: 4.391 min Scan# 438
Delta R.T. 0.006 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 43 Resp: 29969

Ion	Ratio	Lower	Upper
43	100		
74	24.6	18.2	27.4

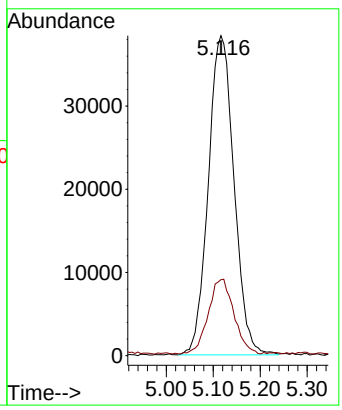




#19
Methyl tert-butyl Ether
Concen: 18.890 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 73 Resp: 14597

Ion	Ratio	Lower	Upper
73	100		
57	23.2	18.6	28.0



Instrument :
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ClientSampleId :
VSTDICC020

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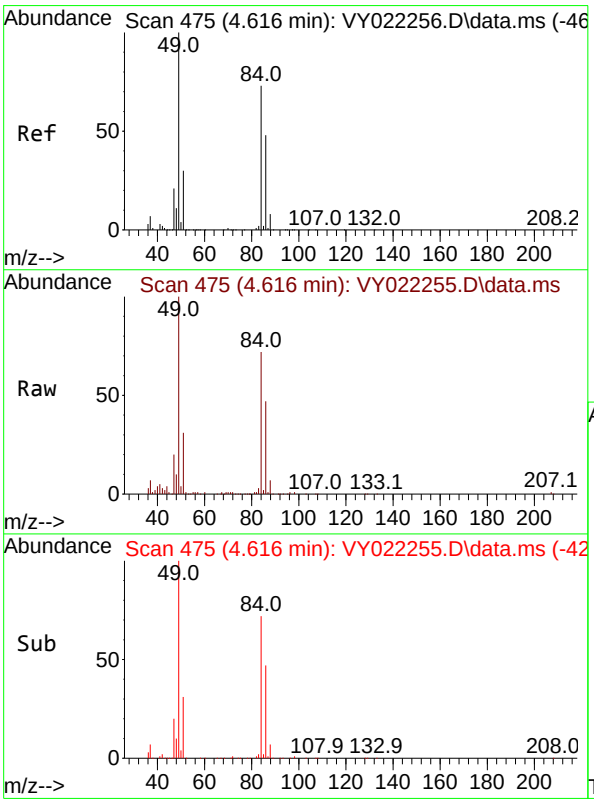
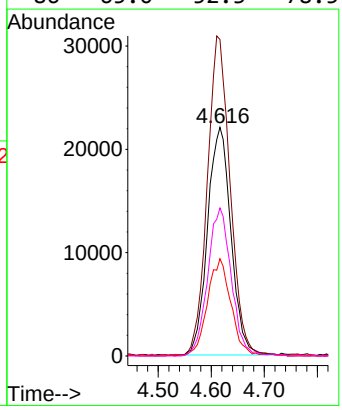
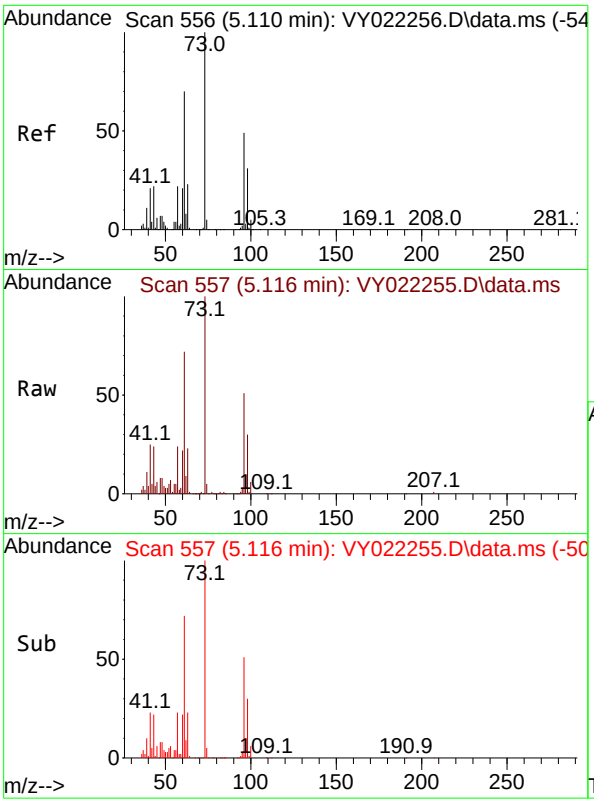


#20
Methylene Chloride
Concen: 19.510 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 84 Resp: 67687

Ion	Ratio	Lower	Upper
84	100		
49	138.7	109.6	164.4
51	42.3	32.4	48.6
86	65.0	52.3	78.5

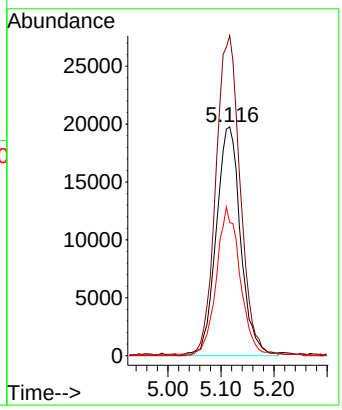




#21
trans-1,2-Dichloroethene
Concen: 20.422 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 96 Resp: 6317

Ion	Ratio	Lower	Upper
96	100		
61	139.8	113.4	170.0
98	57.5	50.9	76.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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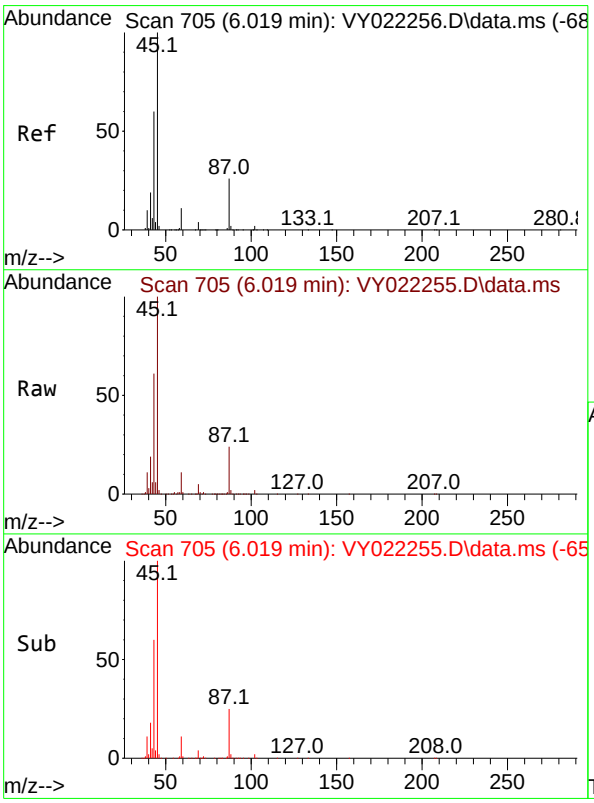
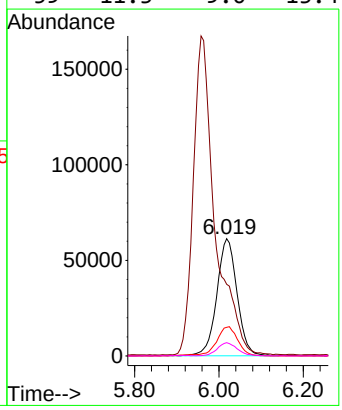
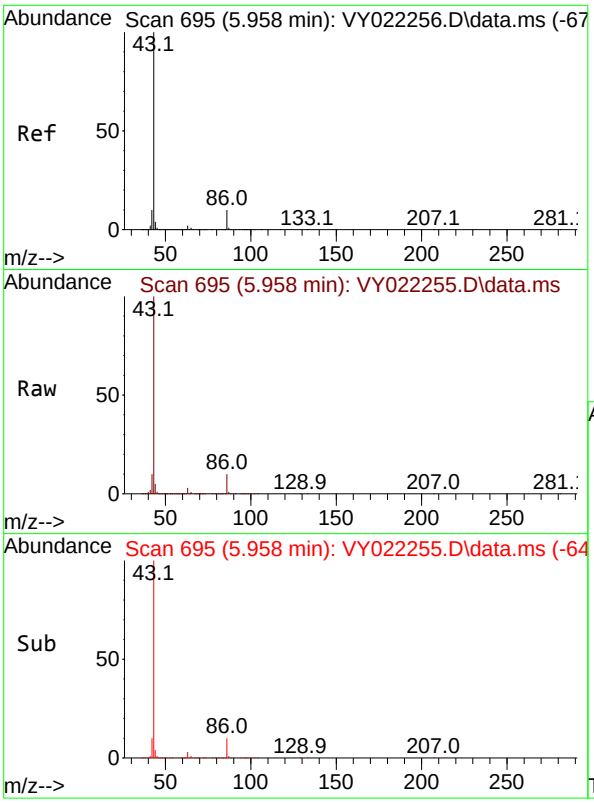


#22
Diisopropyl ether
Concen: 19.558 ug/l
RT: 6.019 min Scan# 705
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 45 Resp: 202960

Ion	Ratio	Lower	Upper
45	100		
43	59.9	48.2	72.2
87	24.5	21.4	32.0
59	11.3	9.0	13.4

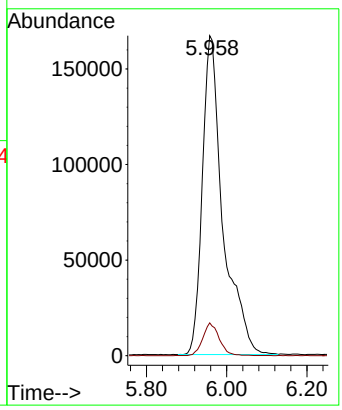




#23
Vinyl Acetate
Concen: 94.748 ug/l
RT: 5.958 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 43 Resp: 59401

Ion	Ratio	Lower	Upper
43	100		
86	10.3	7.8	11.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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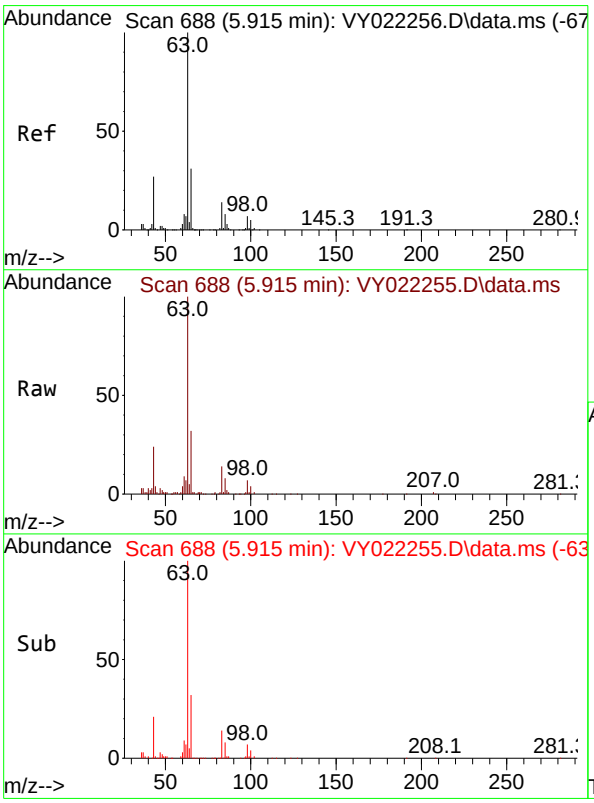
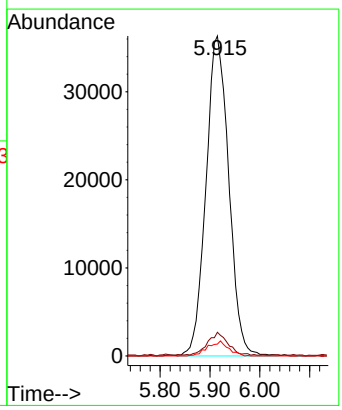
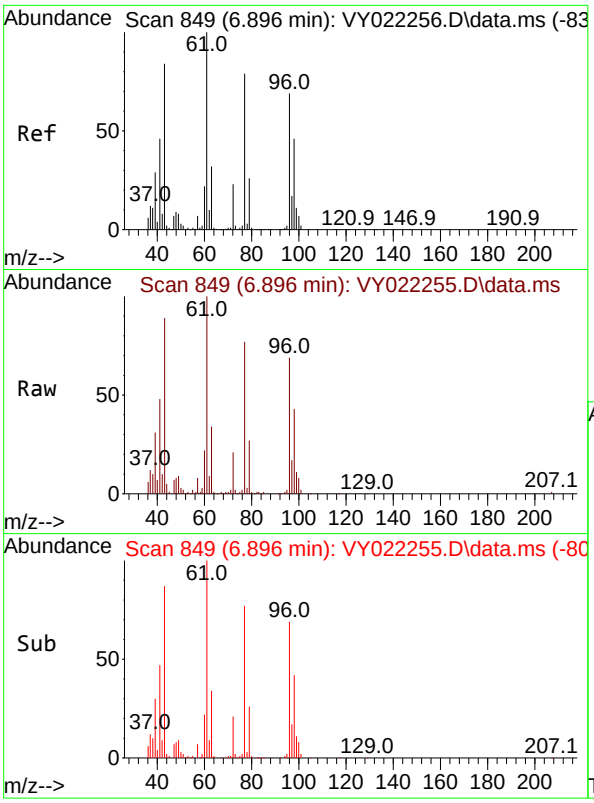


#24
1,1-Dichloroethane
Concen: 19.873 ug/l
RT: 5.915 min Scan# 688
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 63 Resp: 115217

Ion	Ratio	Lower	Upper
63	100		
98	7.0	3.5	10.5
100	3.7	2.4	7.2





#25
2-Butanone
Concen: 92.157 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 43 Resp: 8276

Ion	Ratio	Lower	Upper
43	100		
72	24.1	22.1	33.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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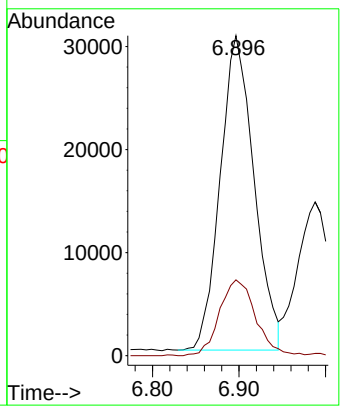
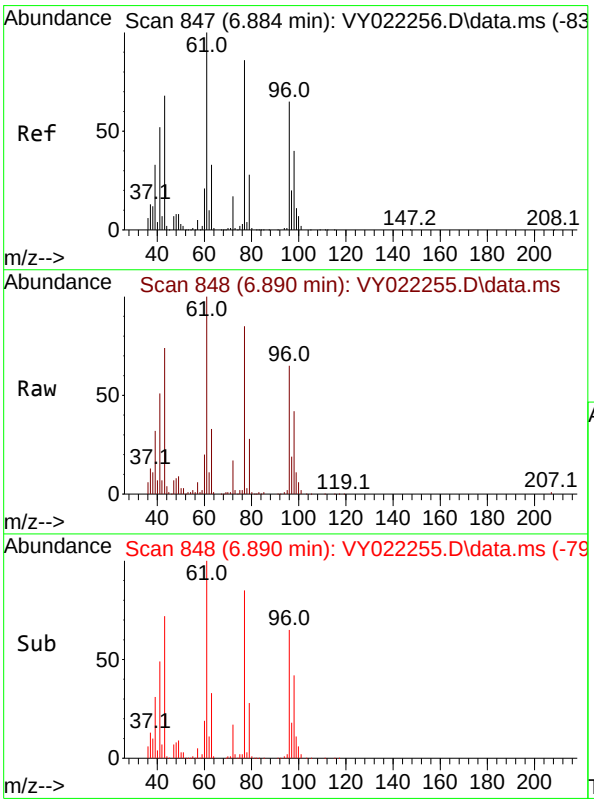
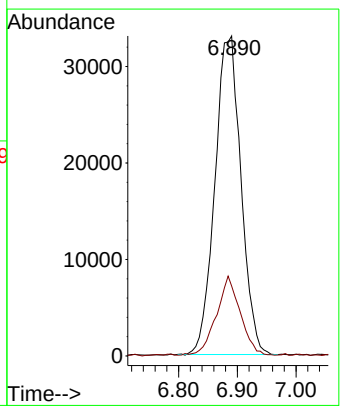


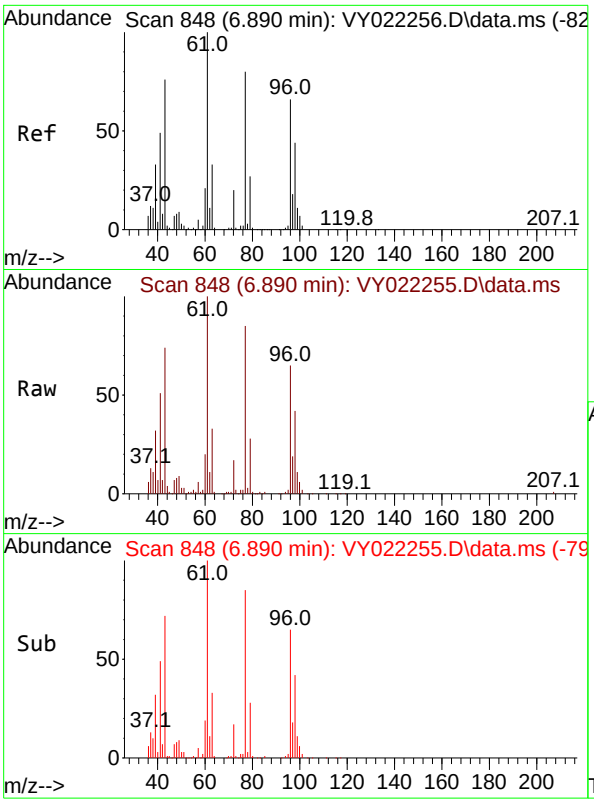


#26
2,2-Dichloropropane
Concen: 19.727 ug/l
RT: 6.890 min Scan# 848
Delta R.T. 0.006 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 77 Resp: 101725

Ion	Ratio	Lower	Upper
77	100		
97	22.6	11.2	33.5

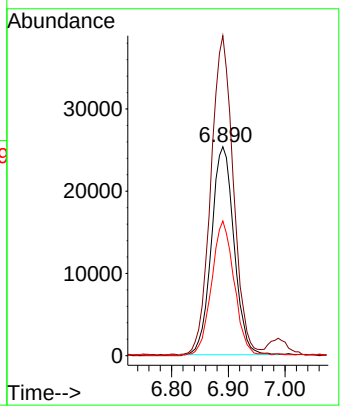




#27
cis-1,2-Dichloroethene
Concen: 19.611 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 96 Resp: 7000

Ion	Ratio	Lower	Upper
96	100		
61	153.9	0.0	302.6
98	64.1	0.0	128.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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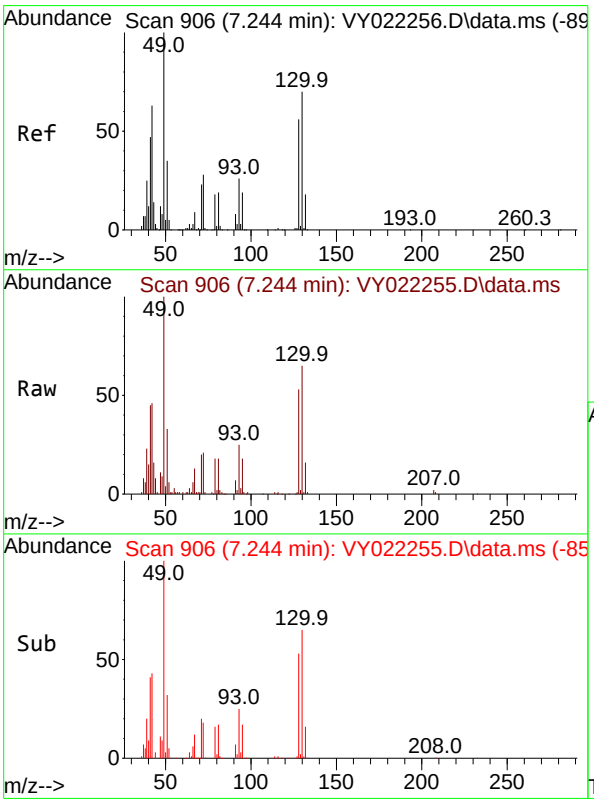
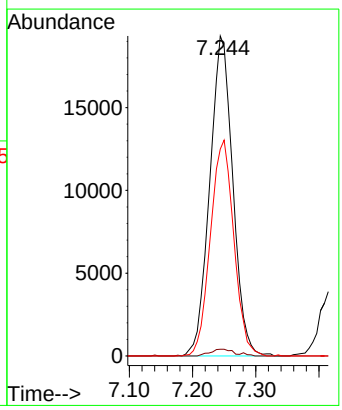
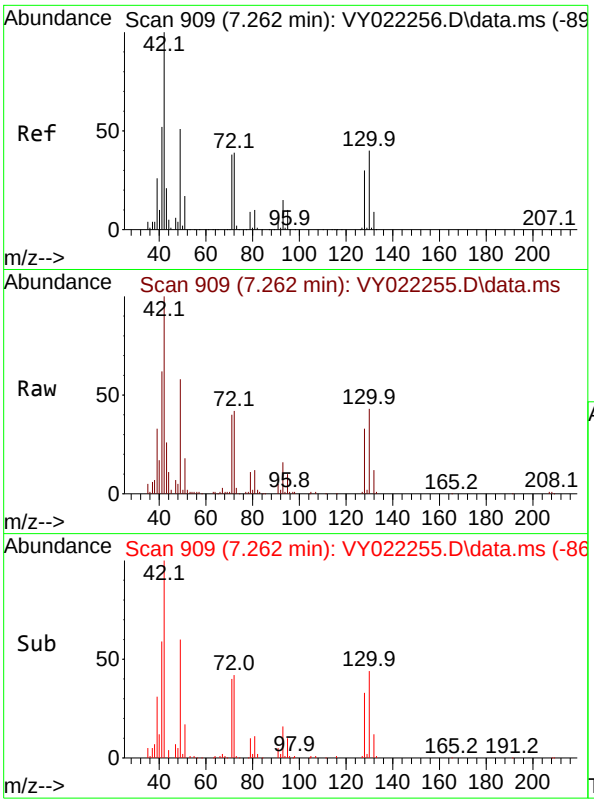


#28
Bromochloromethane
Concen: 19.787 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 49 Resp: 48933

Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	3.6
130	68.4	54.7	82.1

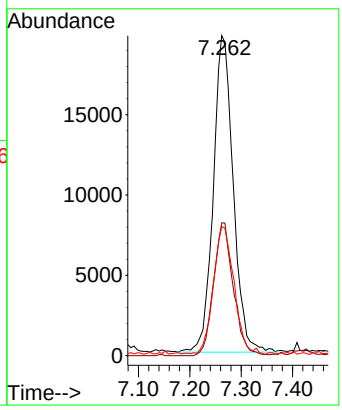




#29
Tetrahydrofuran
Concen: 92.122 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 42 Resp: 5322

Ion	Ratio	Lower	Upper
42	100		
72	41.6	33.8	50.6
71	41.5	31.5	47.3



Instrument :
MSVOA_Y
ClientSampleId :
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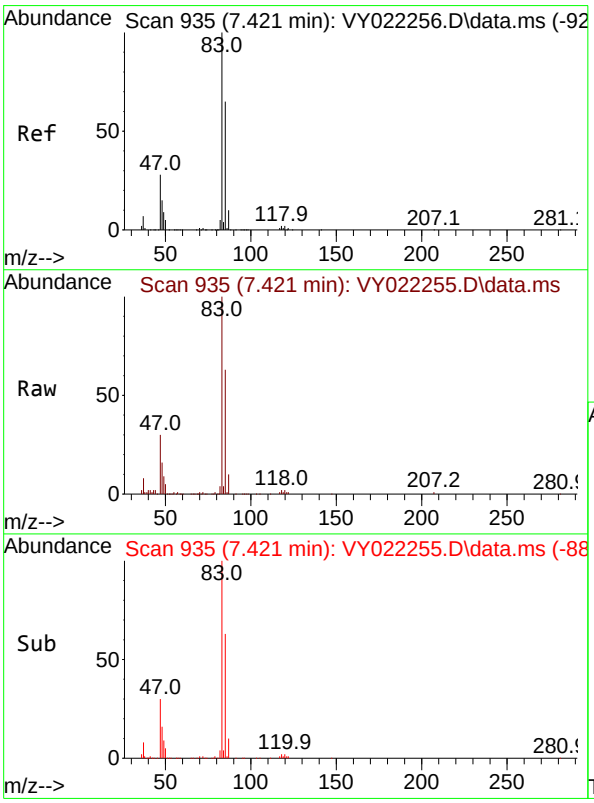
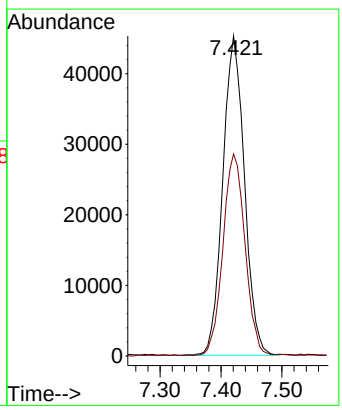
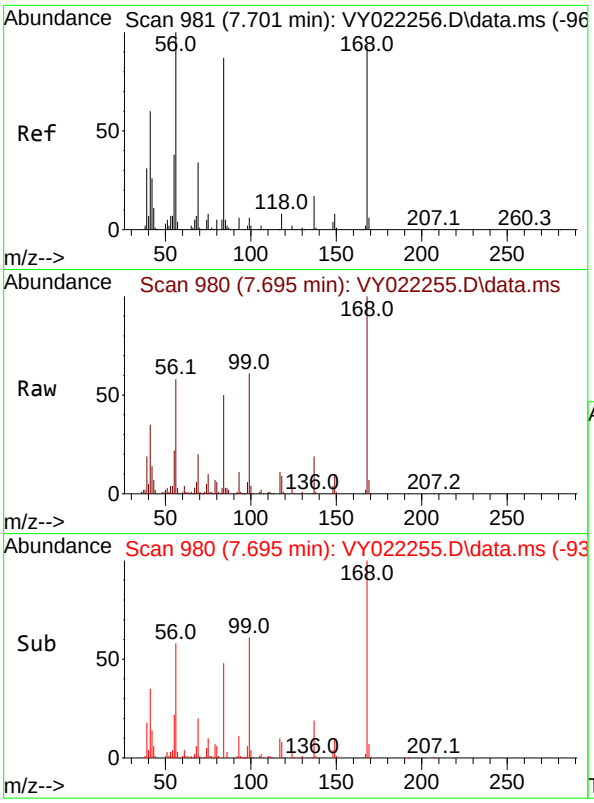


#30
Chloroform
Concen: 20.107 ug/l
RT: 7.421 min Scan# 935
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 83 Resp: 111815

Ion	Ratio	Lower	Upper
83	100		
85	63.1	51.8	77.8

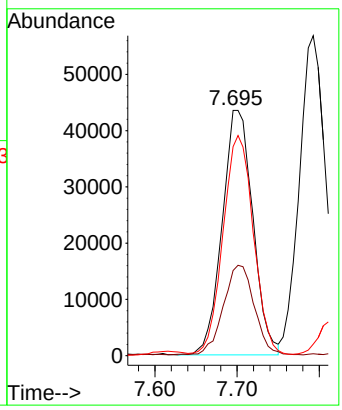




#31
Cyclohexane
Concen: 19.486 ug/l
RT: 7.695 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 56 Resp: 11287

Ion	Ratio	Lower	Upper
56	100		
69	34.2	27.4	41.2
84	84.0	70.0	105.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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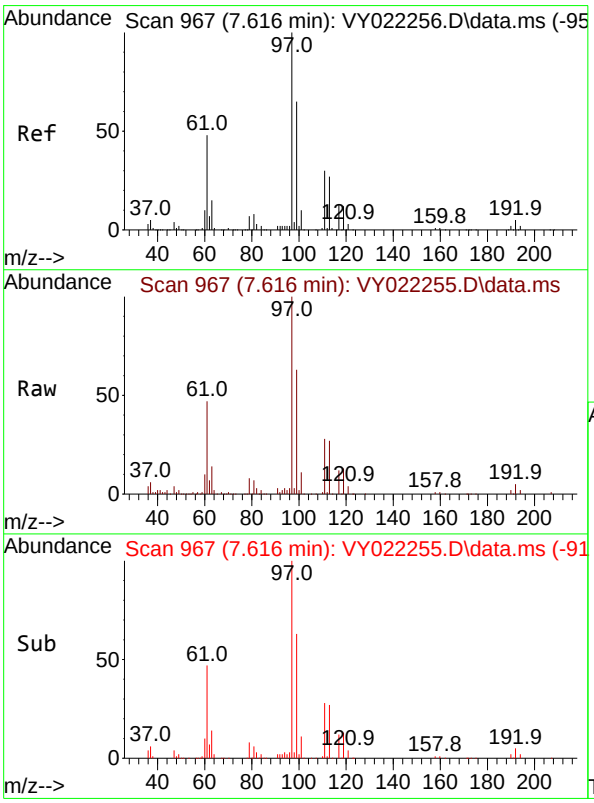
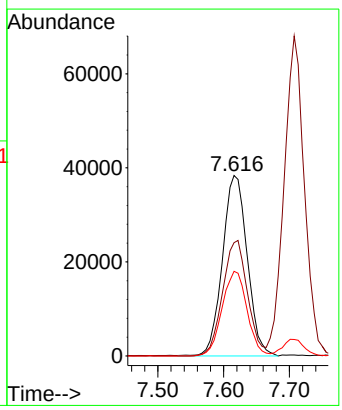
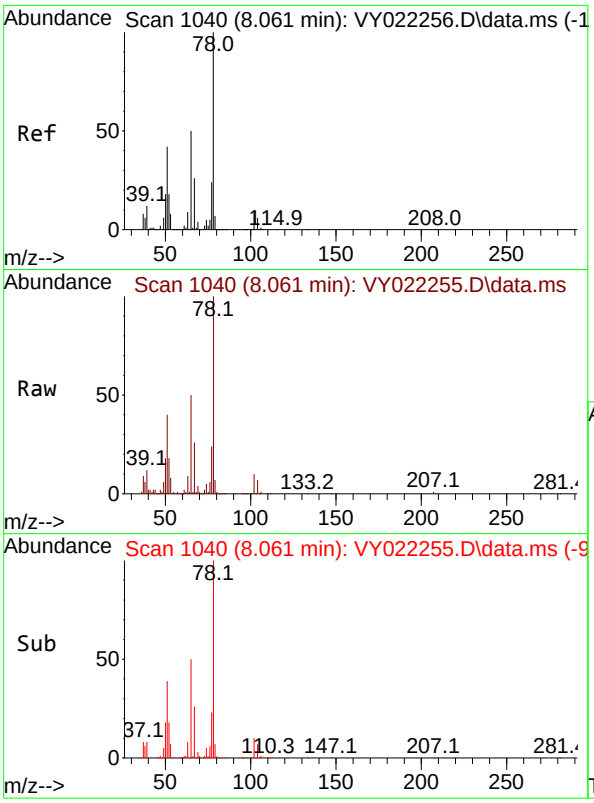


#32
1,1,1-Trichloroethane
Concen: 19.721 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 97 Resp: 100618

Ion	Ratio	Lower	Upper
97	100		
99	64.5	51.4	77.0
61	47.2	38.1	57.1

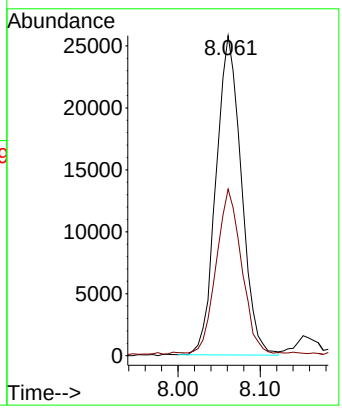




#33
1,2-Dichloroethane-d4
Concen: 19.284 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 65 Resp: 5522

Ion	Ratio	Lower	Upper
65	100		
67	50.9	0.0	104.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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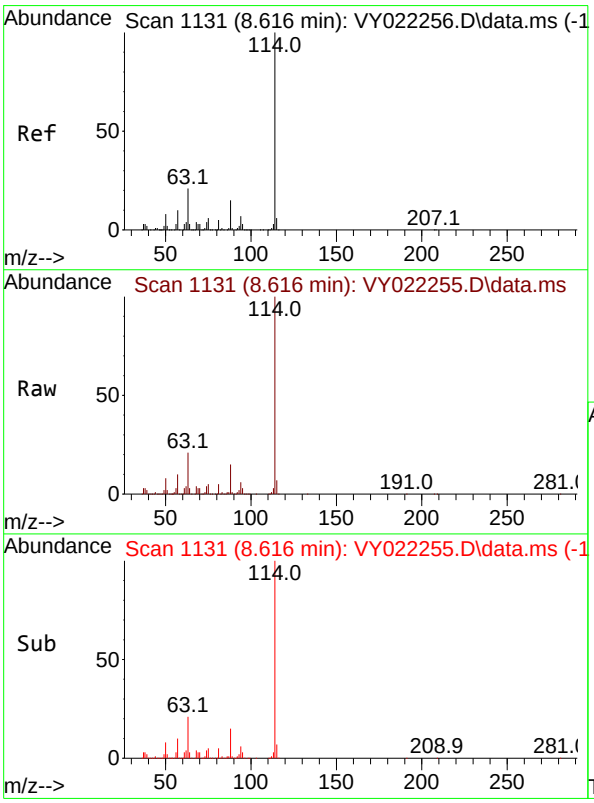
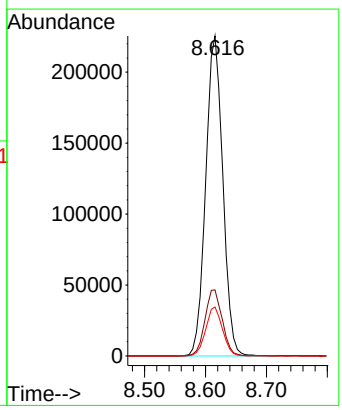
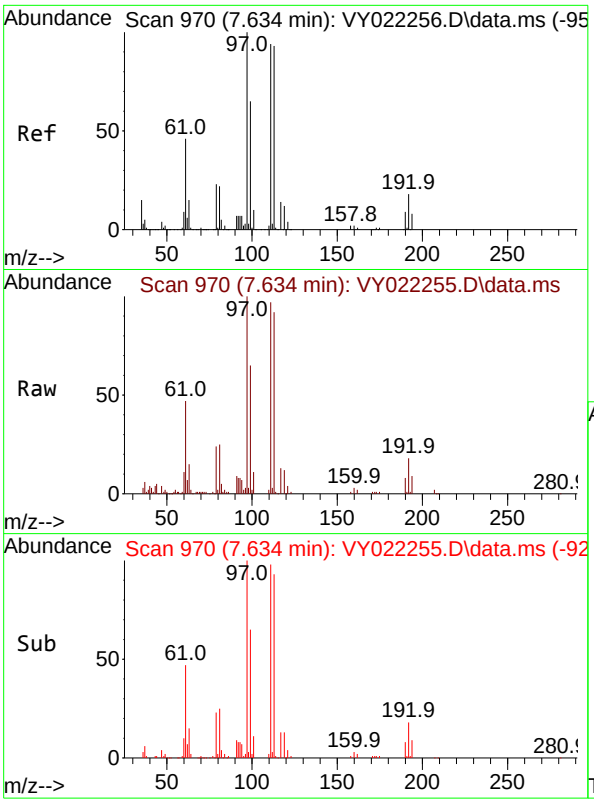


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion:114 Resp: 439816

Ion	Ratio	Lower	Upper
114	100		
63	20.6	0.0	41.0
88	15.3	0.0	29.4

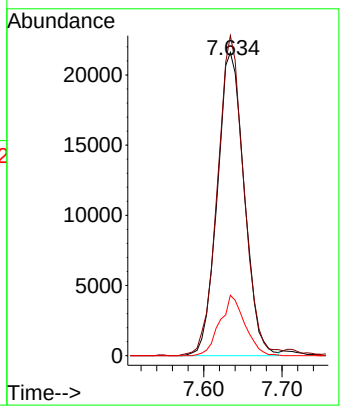




#35
Dibromofluoromethane
Concen: 19.683 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion:113 Resp: 5167

Ion	Ratio	Lower	Upper
113	100		
111	103.2	82.6	123.8
192	18.5	15.2	22.8



Instrument :
MSVOA_Y
ClientSampleId :
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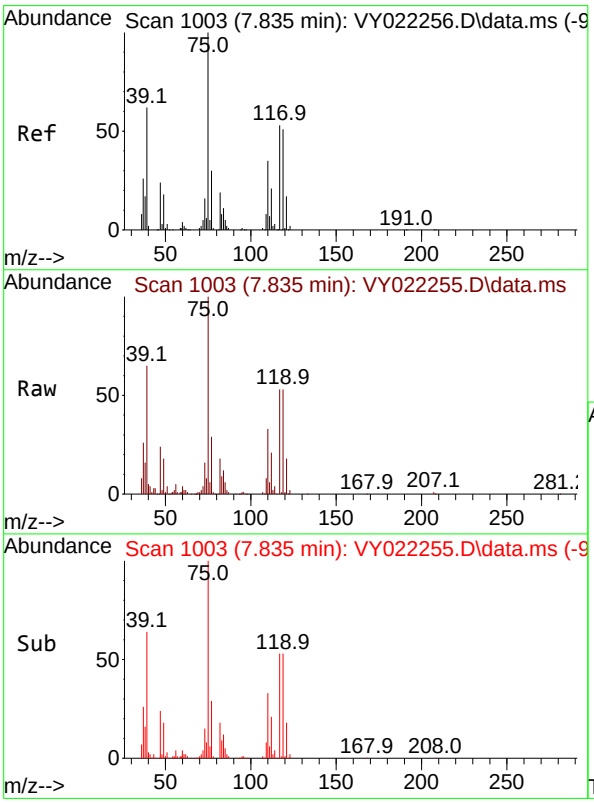
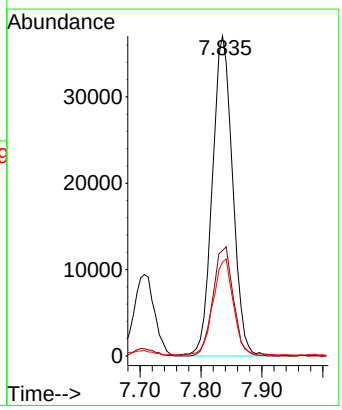
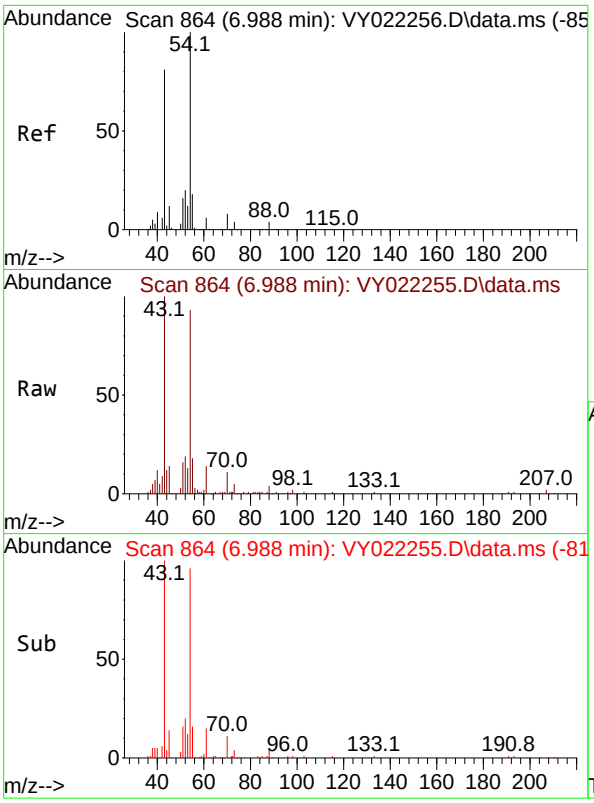


#36
1,1-Dichloropropene
Concen: 19.841 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 75 Resp: 85789

Ion	Ratio	Lower	Upper
75	100		
110	34.2	16.6	49.8
77	30.2	24.6	37.0





#37
Ethyl Acetate
Concen: 18.497 ug/l
RT: 6.988 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 43 Resp: 3848

Ion	Ratio	Lower	Upper
43	100		
61	12.6	10.2	15.2
70	9.8	7.6	11.4

Instrument :
MSVOA_Y
ClientSampleId :
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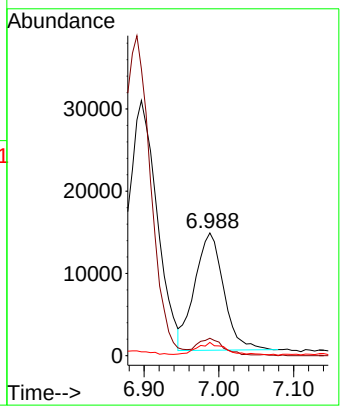
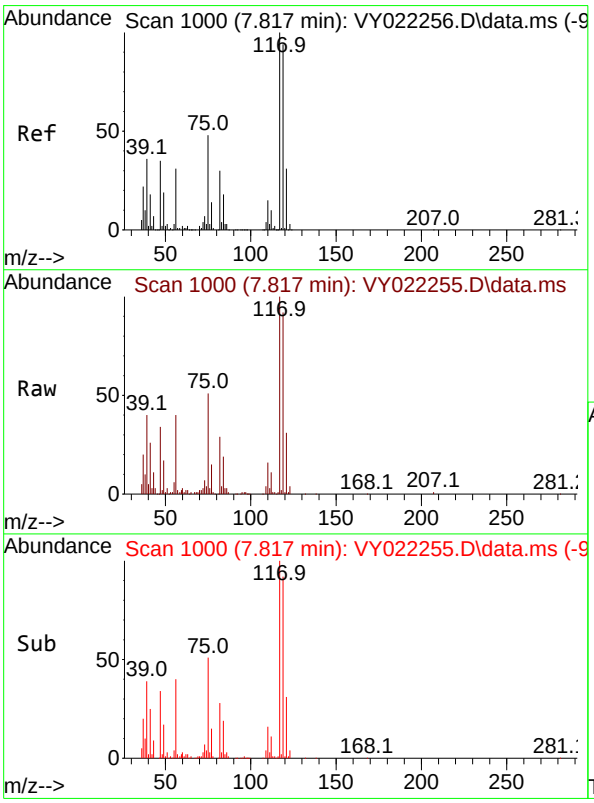
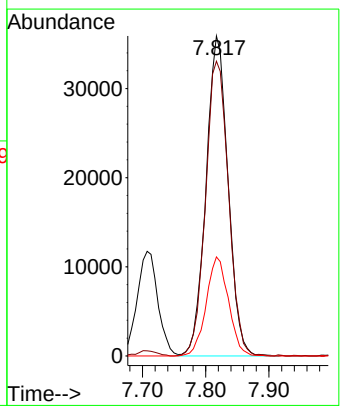


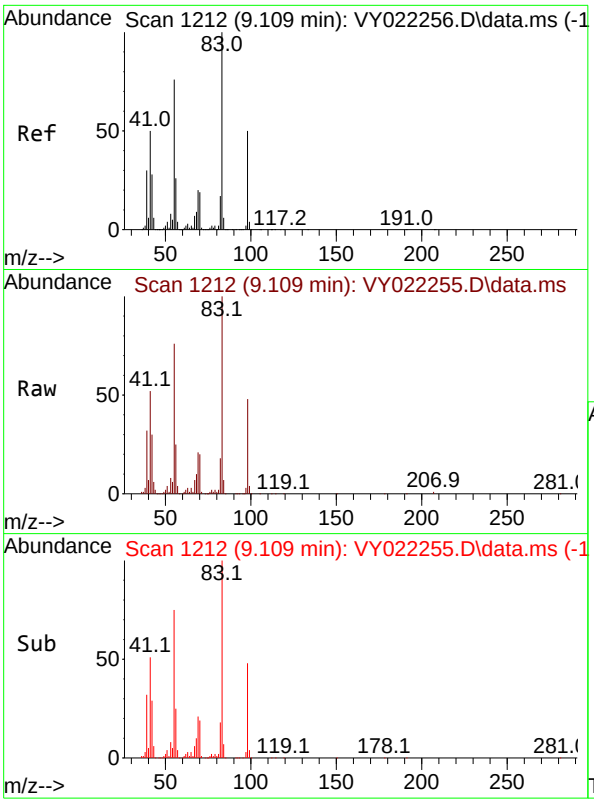


#38
Carbon Tetrachloride
Concen: 19.410 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion:117 Resp: 86871

Ion	Ratio	Lower	Upper
117	100		
119	91.9	75.3	112.9
121	31.0	24.7	37.1

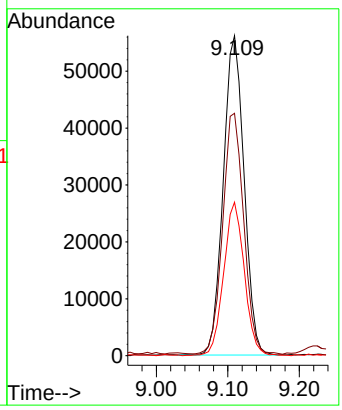




#39
Methylcyclohexane
Concen: 19.540 ug/l
RT: 9.109 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 83 Resp: 11351

Ion	Ratio	Lower	Upper
83	100		
55	75.2	60.6	90.8
98	47.9	40.0	60.0



Instrument :
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ClientSampleId :
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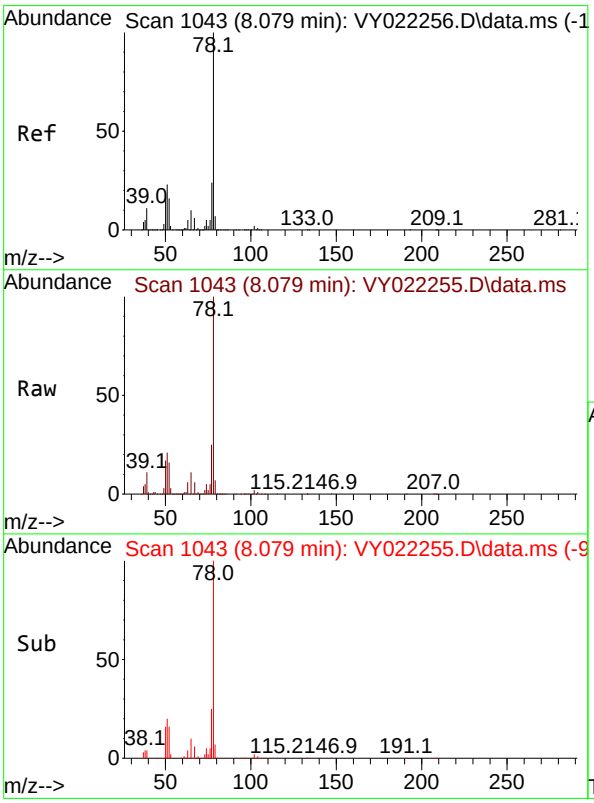
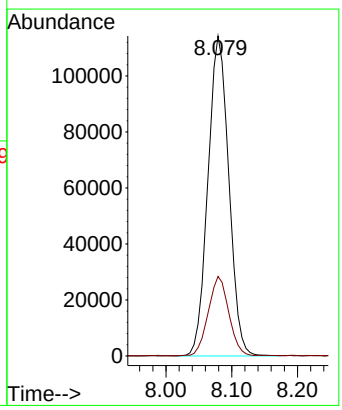
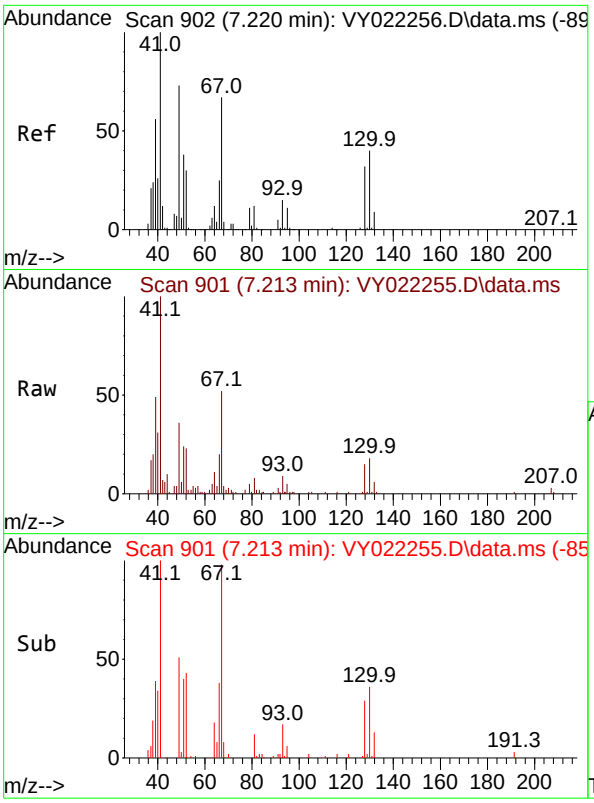


#40
Benzene
Concen: 19.700 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 78 Resp: 252507

Ion	Ratio	Lower	Upper
78	100		
77	24.8	18.9	28.3

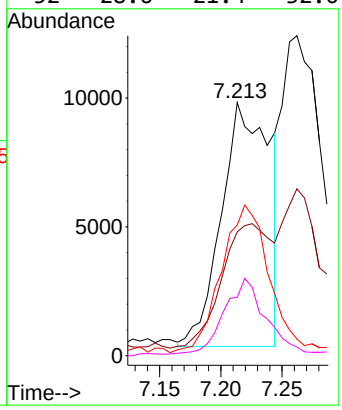




#41
Methacrylonitrile
Concen: 17.085 ug/l m
RT: 7.213 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 41 Resp: 2600

Ion	Ratio	Lower	Upper
41	100		
39	53.1	39.1	58.7
67	60.9	47.1	70.7
52	28.6	21.4	32.0



Instrument :
MSVOA_Y
ClientSampleId :
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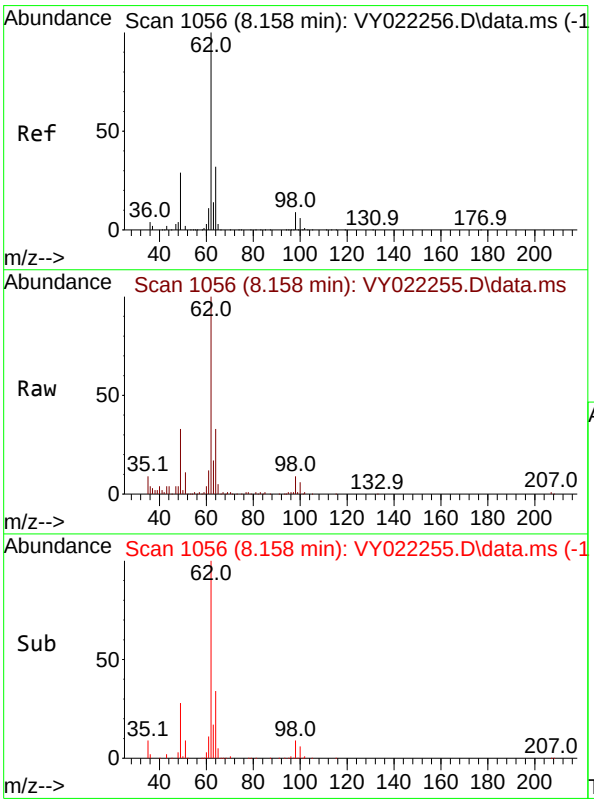
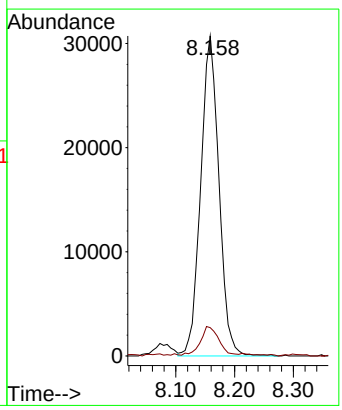
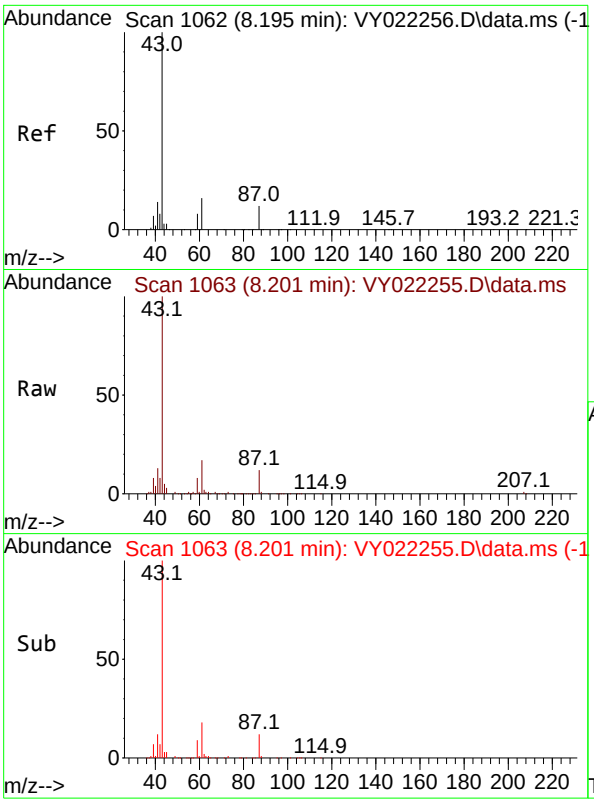


#42
1,2-Dichloroethane
Concen: 19.192 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 62 Resp: 66525

Ion	Ratio	Lower	Upper
62	100		
98	8.8	0.0	18.4

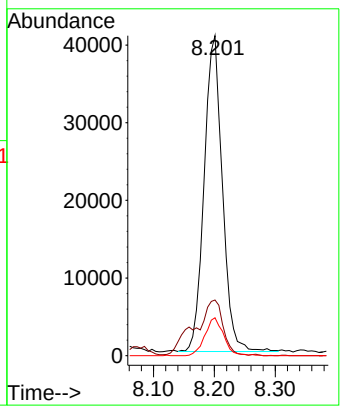




#43
Isopropyl Acetate
Concen: 18.631 ug/l
RT: 8.201 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 43 Resp: 8453

Ion	Ratio	Lower	Upper
43	100		
61	17.1	15.1	22.7
87	12.3	9.7	14.5



Instrument :
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ClientSampleId :
VSTDICC020

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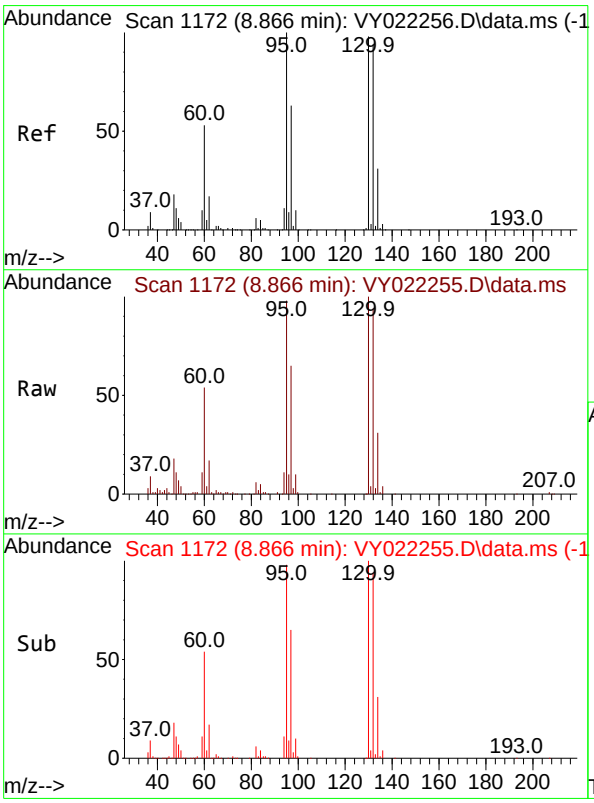
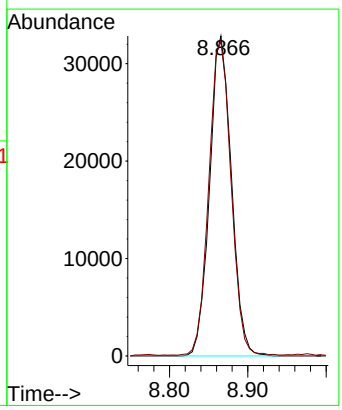
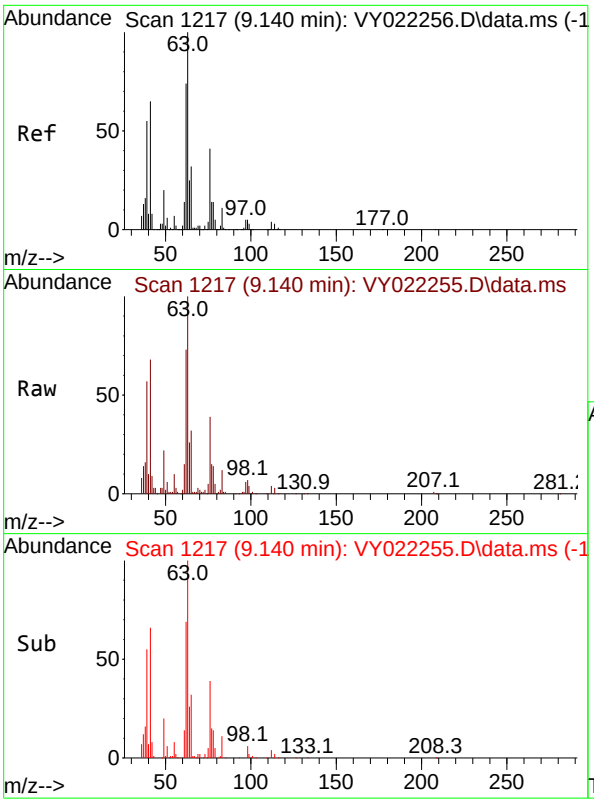


#44
Trichloroethene
Concen: 19.904 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion:130 Resp: 63438

Ion	Ratio	Lower	Upper
130	100		
95	98.0	0.0	204.8





#45
1,2-Dichloropropane
Concen: 19.557 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 63 Resp: 6043

Ion	Ratio	Lower	Upper
63	100		
65	32.1	25.7	38.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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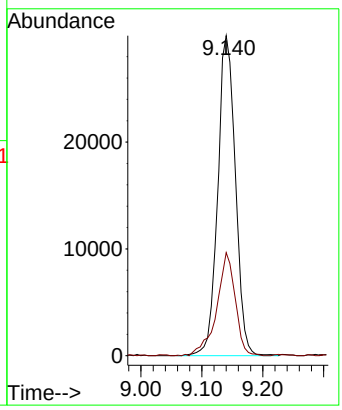
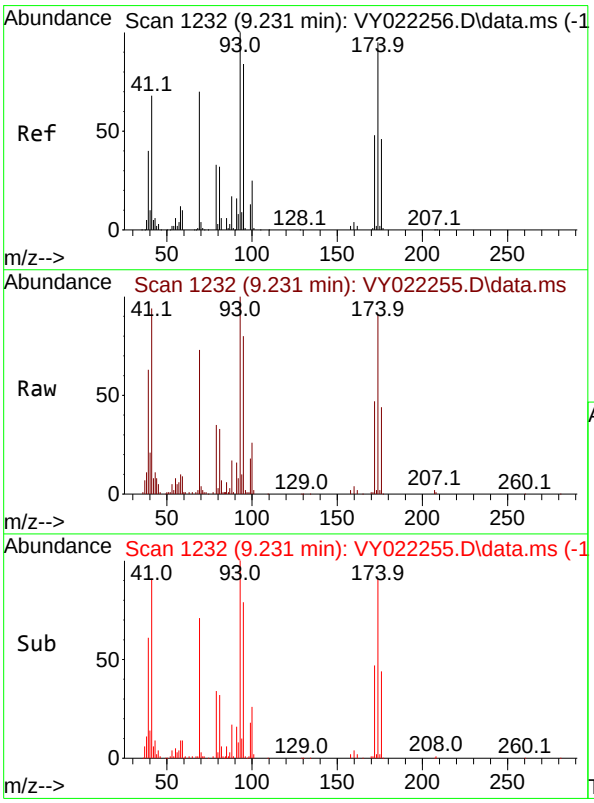
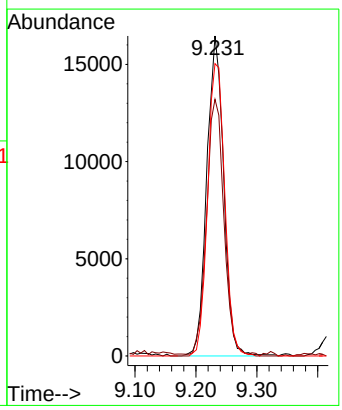


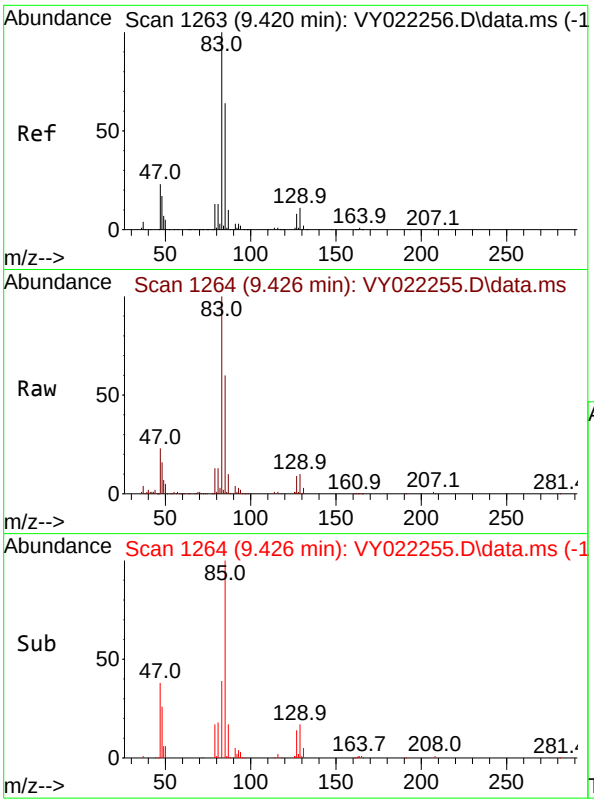


#46
Dibromomethane
Concen: 19.050 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 93 Resp: 31752

Ion	Ratio	Lower	Upper
93	100		
95	82.8	65.2	97.8
174	92.4	74.3	111.5

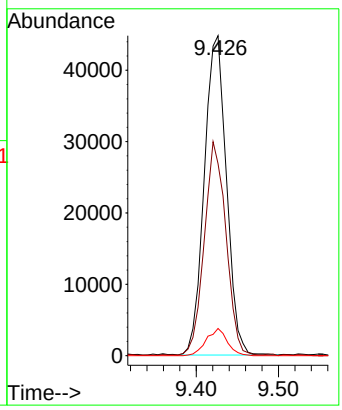




#47
Bromodichloromethane
Concen: 19.385 ug/l
RT: 9.426 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 83 Resp: 8382

Ion	Ratio	Lower	Upper
83	100		
85	60.2	51.1	76.7
127	8.5	6.6	10.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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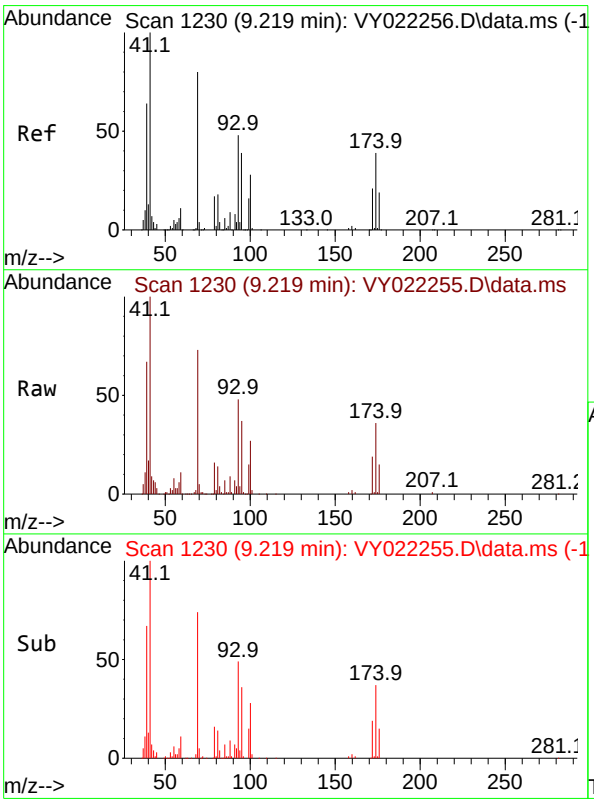
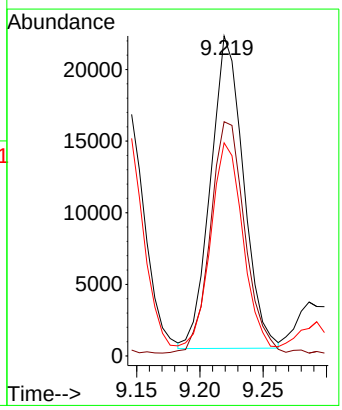
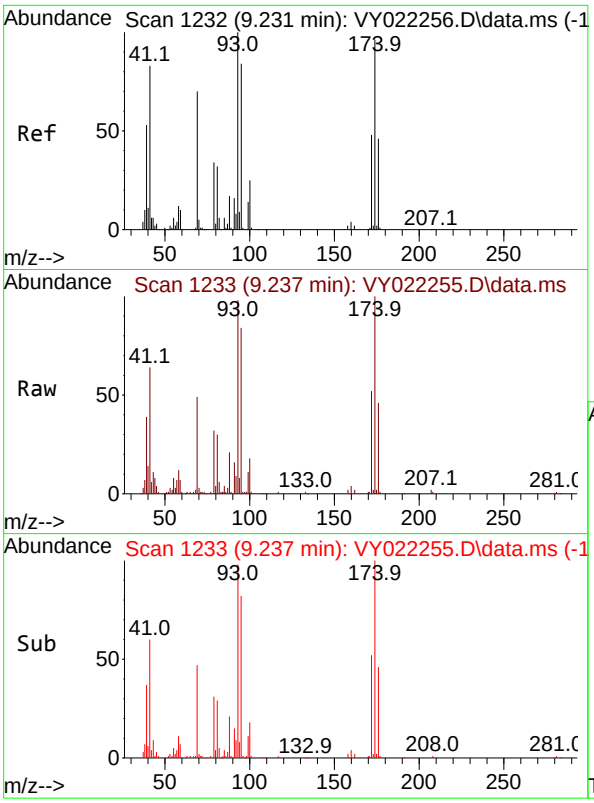


#48
Methyl methacrylate
Concen: 18.563 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 41 Resp: 39387

Ion	Ratio	Lower	Upper
41	100		
69	77.5	63.5	95.3
39	63.4	50.8	76.2

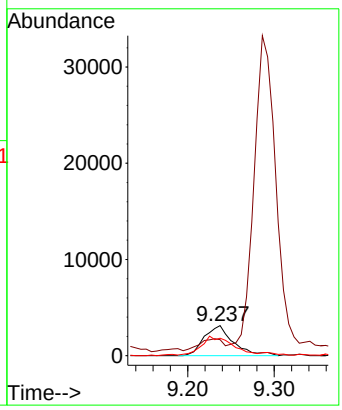




#49
1,4-Dioxane
Concen: 388.323 ug/l
RT: 9.237 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 88 Resp: 731

Ion	Ratio	Lower	Upper
88	100		
43	31.6	28.5	42.7
58	71.1	61.4	92.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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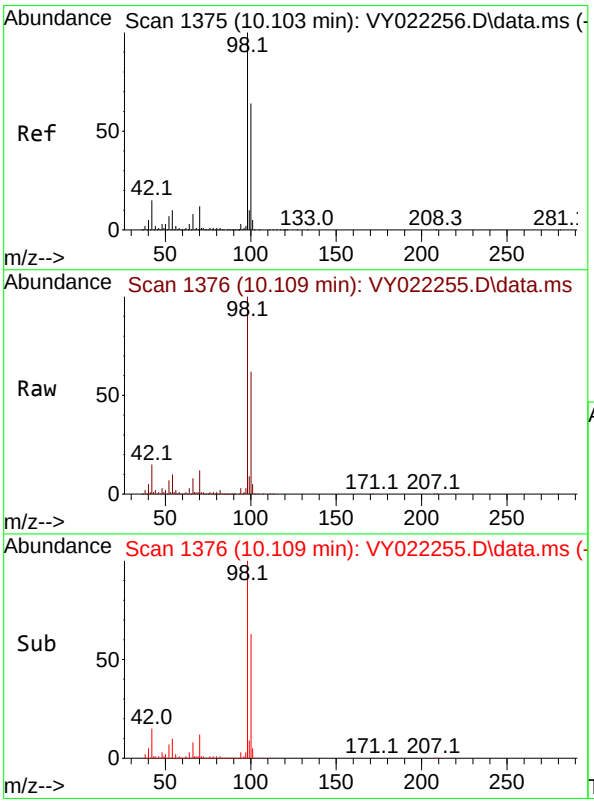
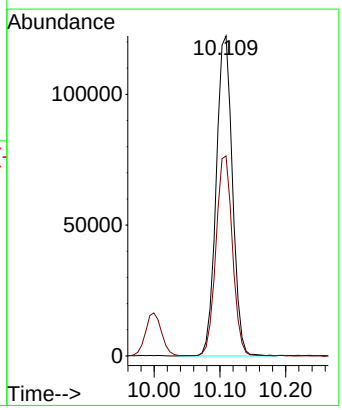
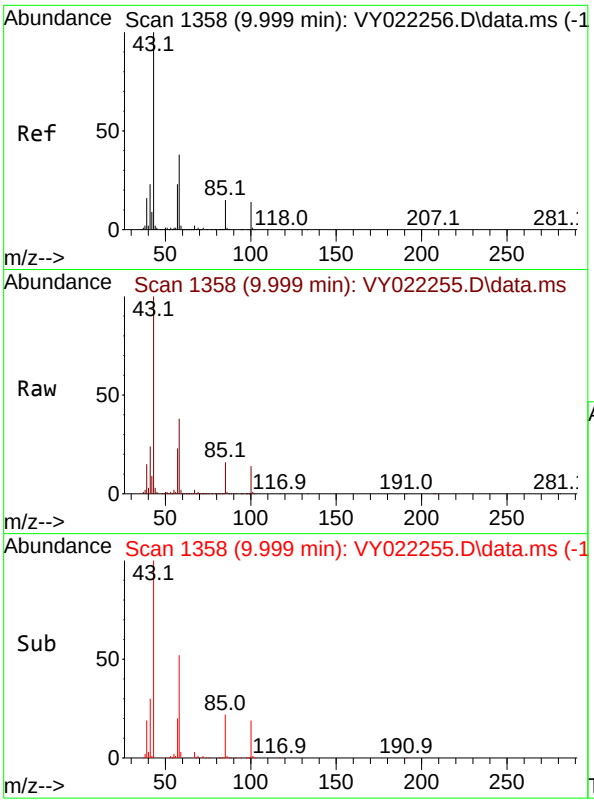


#50
Toluene-d8
Concen: 19.552 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 98 Resp: 210206

Ion	Ratio	Lower	Upper
98	100		
100	63.4	51.8	77.8

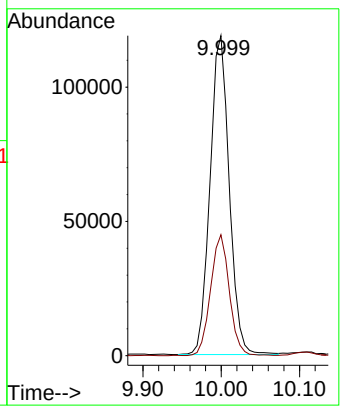




#51
4-Methyl-2-Pentanone
Concen: 90.940 ug/l
RT: 9.999 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 43 Resp: 20245

Ion	Ratio	Lower	Upper
43	100		
58	37.2	29.4	44.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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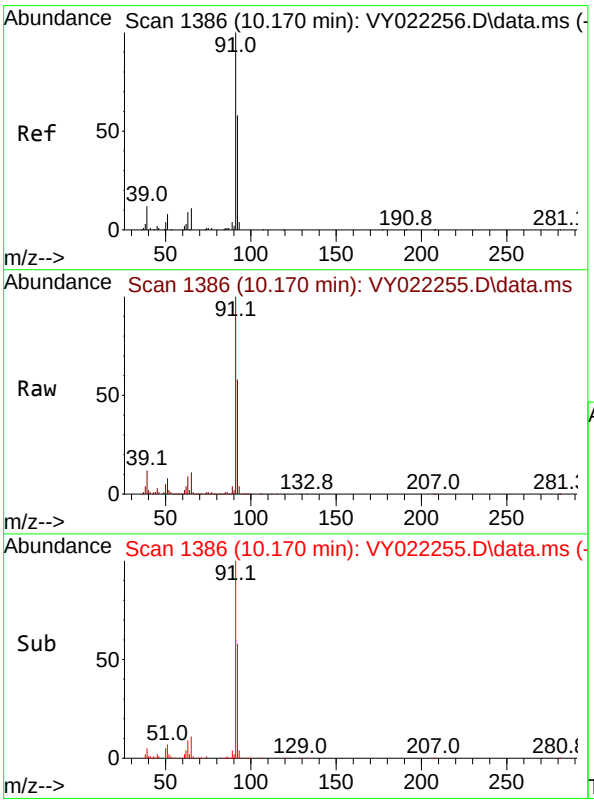
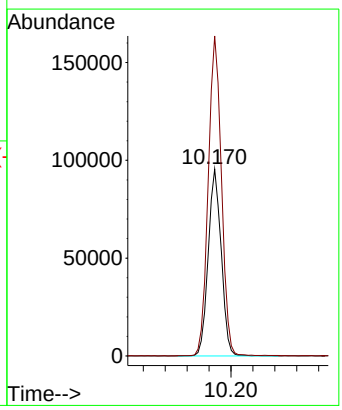
Supervised By :Semsettin Yesilyurt 05/16/2025

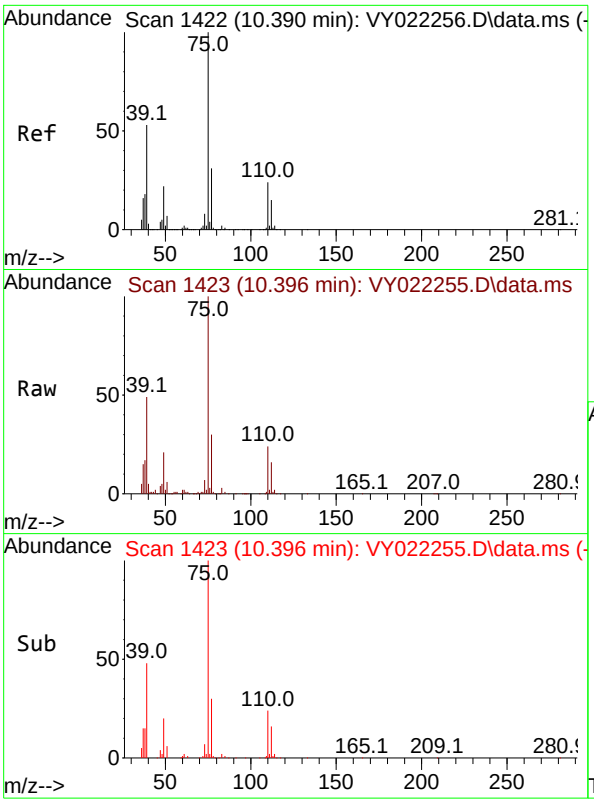


#52
Toluene
Concen: 19.281 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 92 Resp: 156498

Ion	Ratio	Lower	Upper
92	100		
91	173.5	139.1	208.7

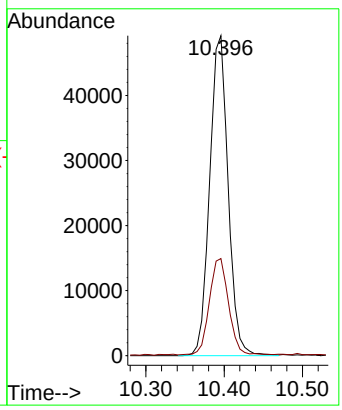




#53
t-1,3-Dichloropropene
Concen: 19.056 ug/l
RT: 10.396 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 75 Resp: 8041

Ion	Ratio	Lower	Upper
75	100		
77	30.1	25.0	37.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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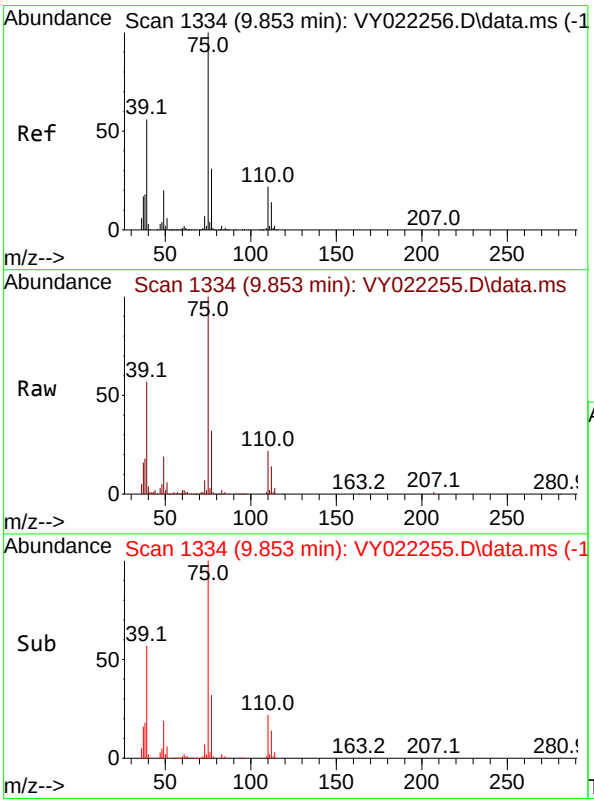
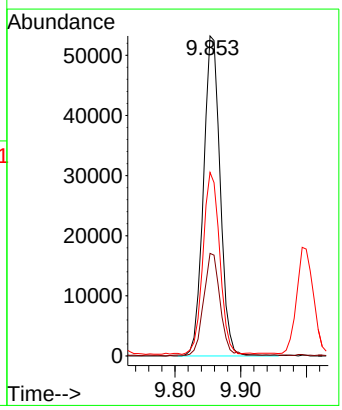
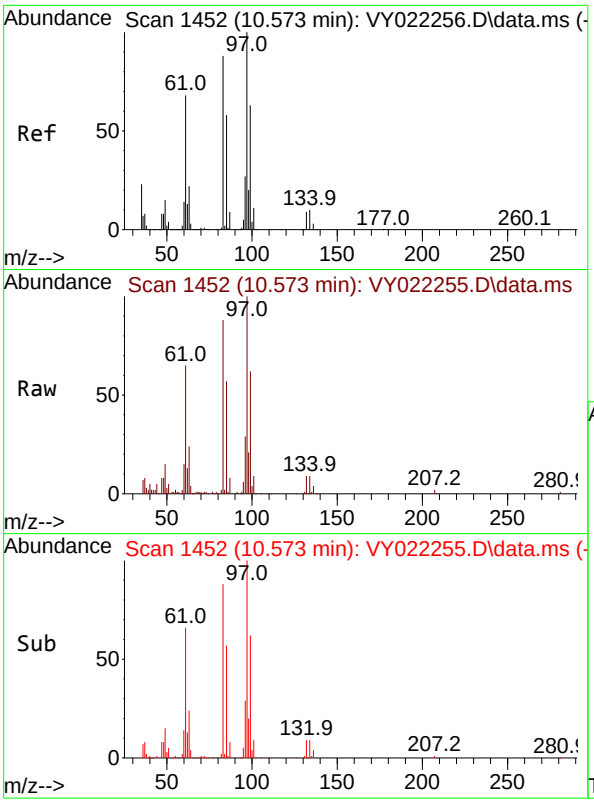


#54
cis-1,3-Dichloropropene
Concen: 19.458 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 75 Resp: 94074

Ion	Ratio	Lower	Upper
75	100		
77	31.8	25.1	37.7
39	56.6	44.5	66.7

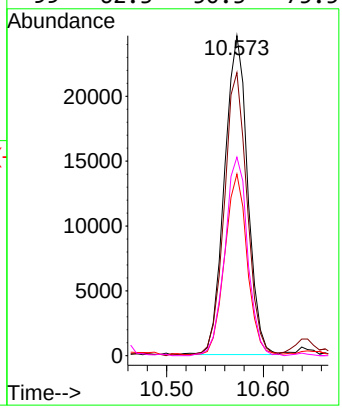




#55
1,1,2-Trichloroethane
Concen: 19.149 ug/l
RT: 10.573 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 97 Resp: 4087

Ion	Ratio	Lower	Upper
97	100		
83	88.4	70.3	105.5
85	56.5	46.2	69.4
99	62.3	50.3	75.5



Instrument :
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ClientSampleId :
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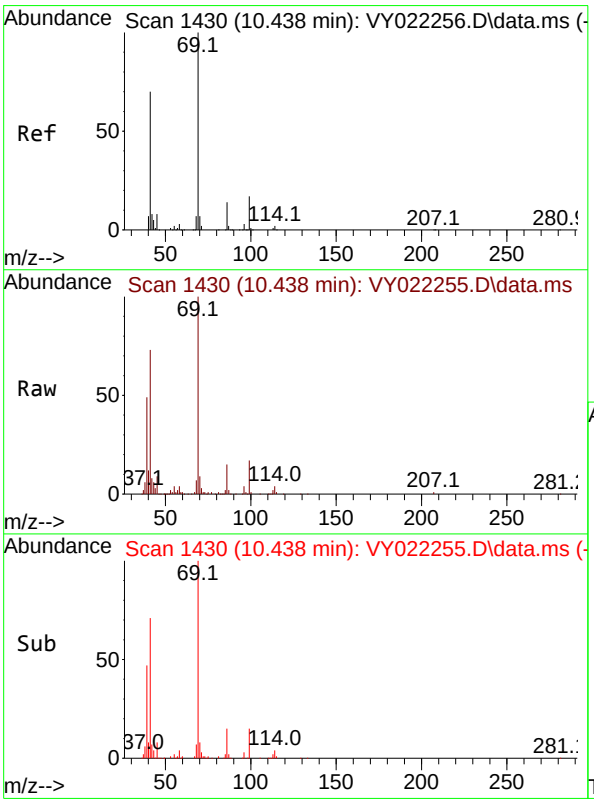
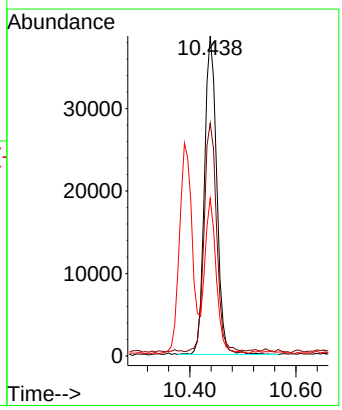
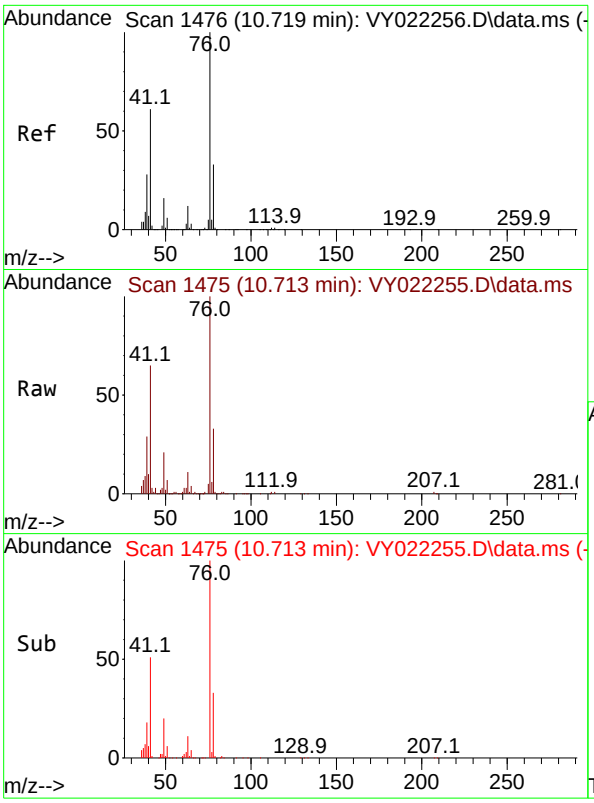


#56
Ethyl methacrylate
Concen: 18.706 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 69 Resp: 62193

Ion	Ratio	Lower	Upper
69	100		
41	73.0	56.5	84.7
39	44.2	37.1	55.7

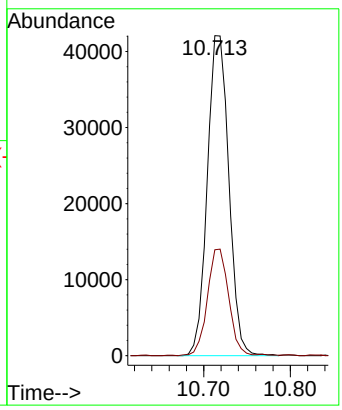




#57
1,3-Dichloropropane
Concen: 19.175 ug/l
RT: 10.713 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 76 Resp: 7271

Ion	Ratio	Lower	Upper
76	100		
78	33.1	25.8	38.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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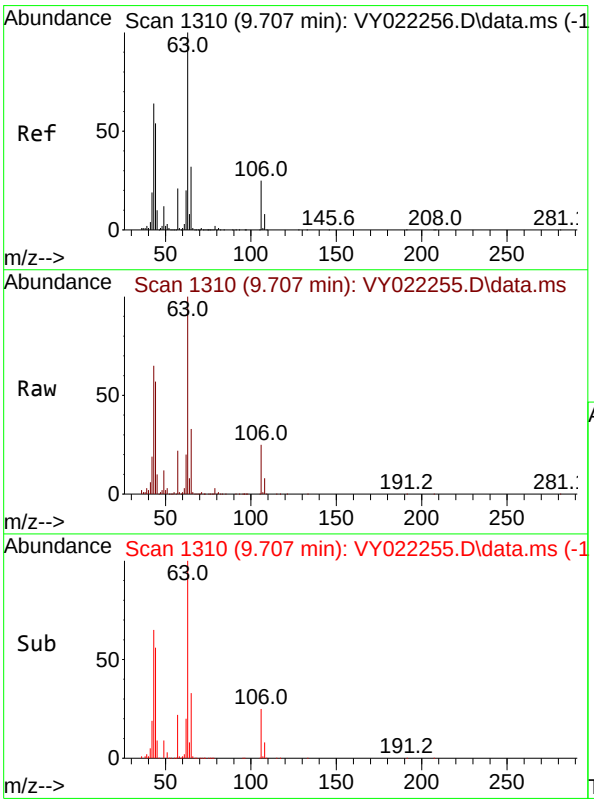
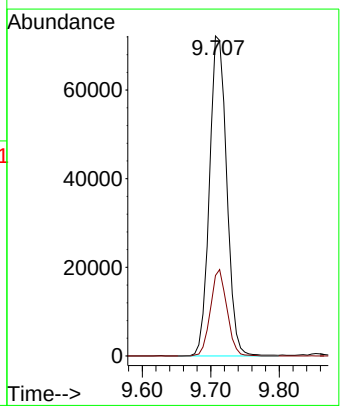
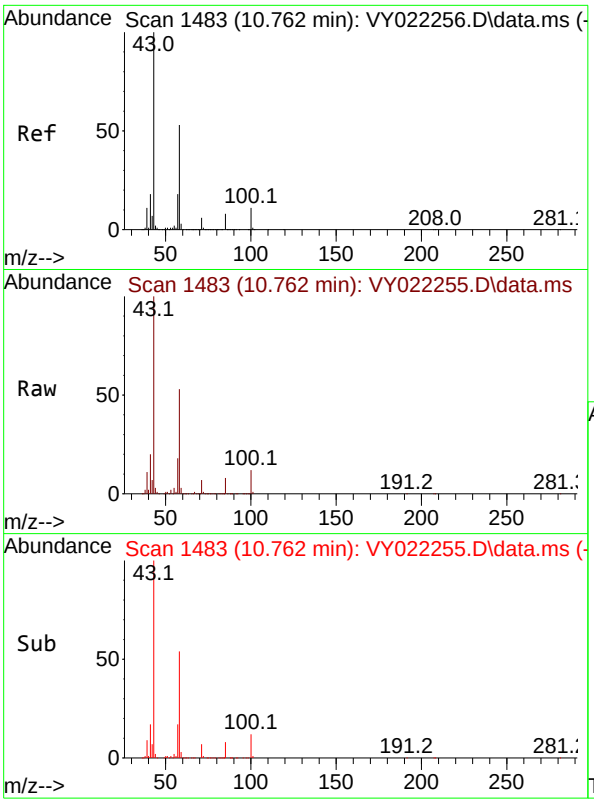


#58
2-Chloroethyl Vinyl ether
Concen: 84.595 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 63 Resp: 126240

Ion	Ratio	Lower	Upper
63	100		
106	25.7	21.0	31.4





#59
2-Hexanone
Concen: 88.766 ug/l
RT: 10.762 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 43 Resp: 13249

Ion	Ratio	Lower	Upper
43	100		
58	52.4	26.1	78.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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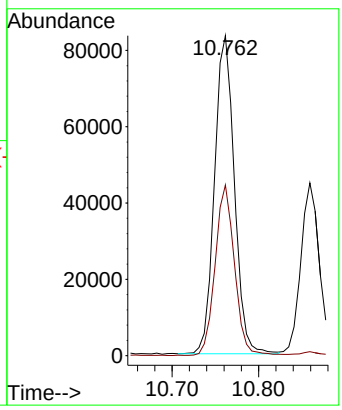
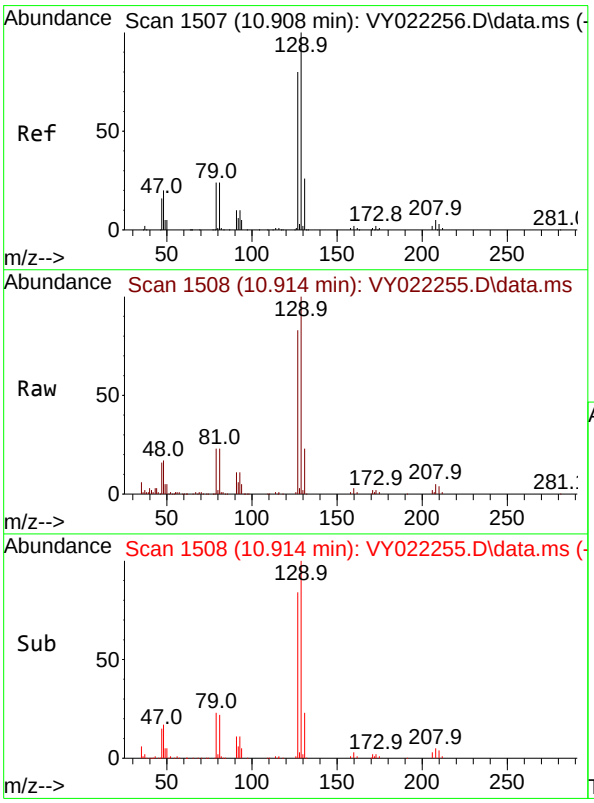
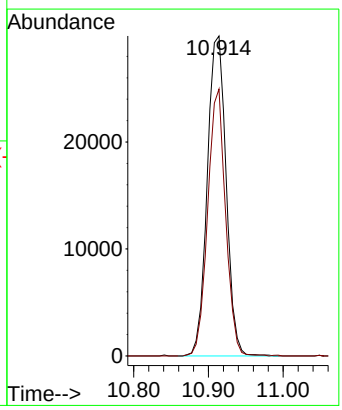


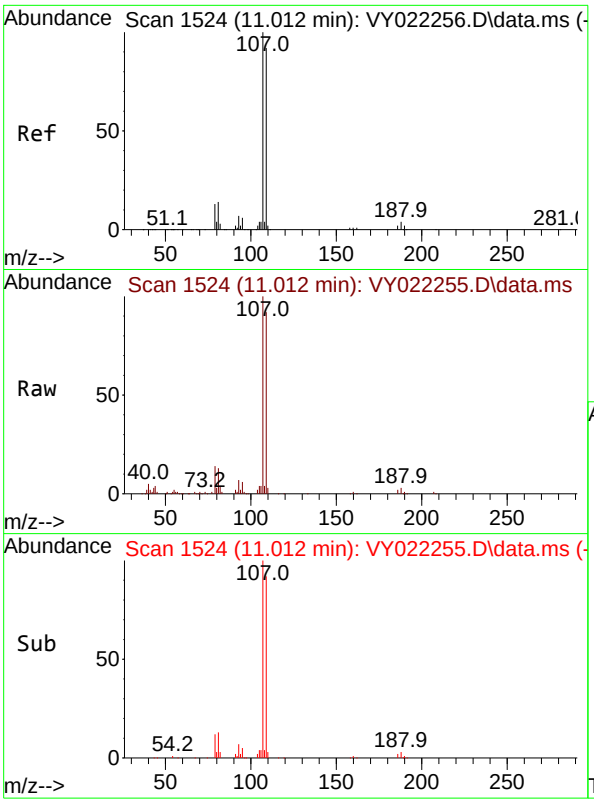


#60
Dibromochloromethane
Concen: 18.898 ug/l
RT: 10.914 min Scan# 1508
Delta R.T. 0.006 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion:129 Resp: 52353

Ion	Ratio	Lower	Upper
129	100		
127	79.1	38.6	115.7

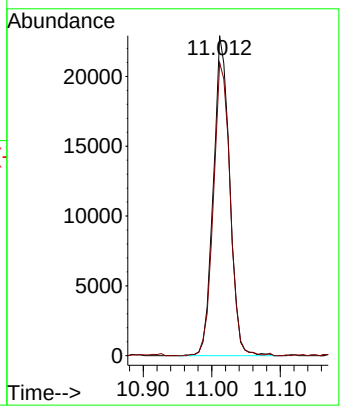




#61
1,2-Dibromoethane
Concen: 18.969 ug/l
RT: 11.012 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion:107 Resp: 3773

Ion	Ratio	Lower	Upper
107	100		
109	94.1	74.6	111.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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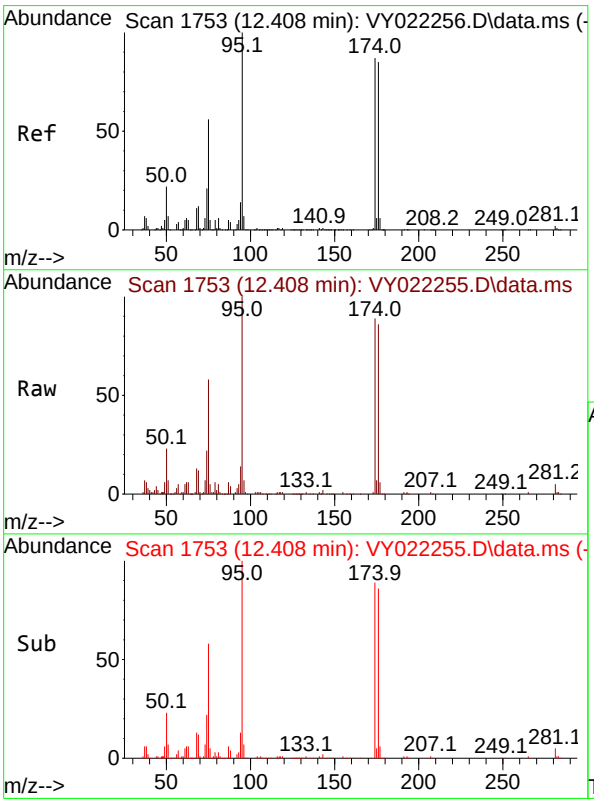
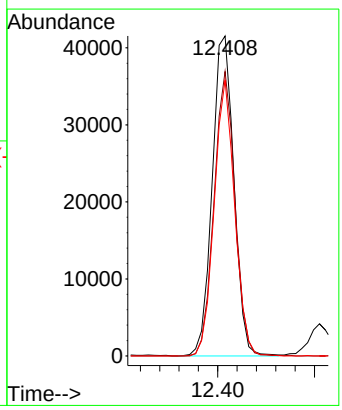
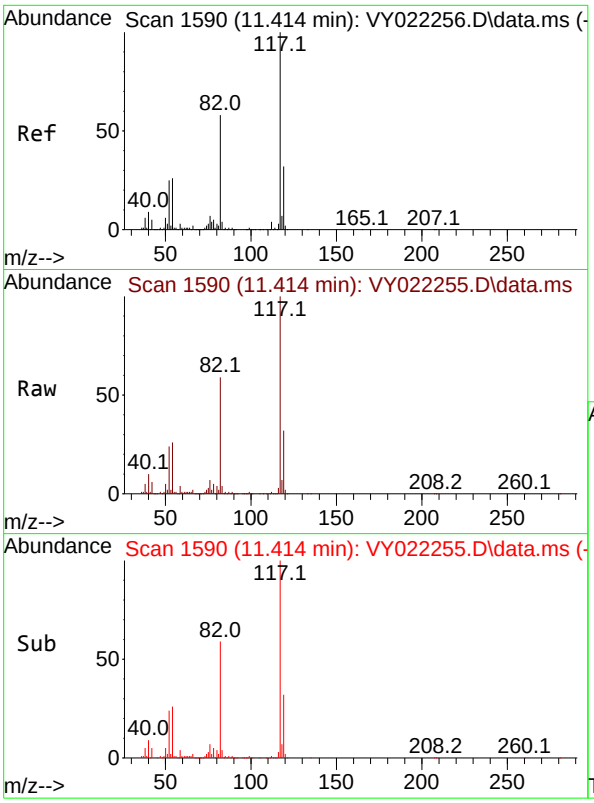


#62
4-Bromofluorobenzene
Concen: 18.988 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 95 Resp: 64706

Ion	Ratio	Lower	Upper
95	100		
174	85.7	0.0	166.8
176	81.3	0.0	160.8

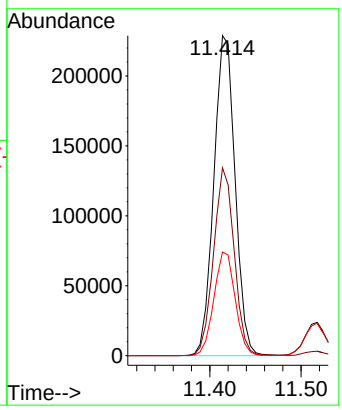




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion:117 Resp: 37007

Ion	Ratio	Lower	Upper
117	100		
82	58.7	46.6	70.0
119	32.4	25.8	38.6



Instrument :
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ClientSampleId :
VSTDICC020

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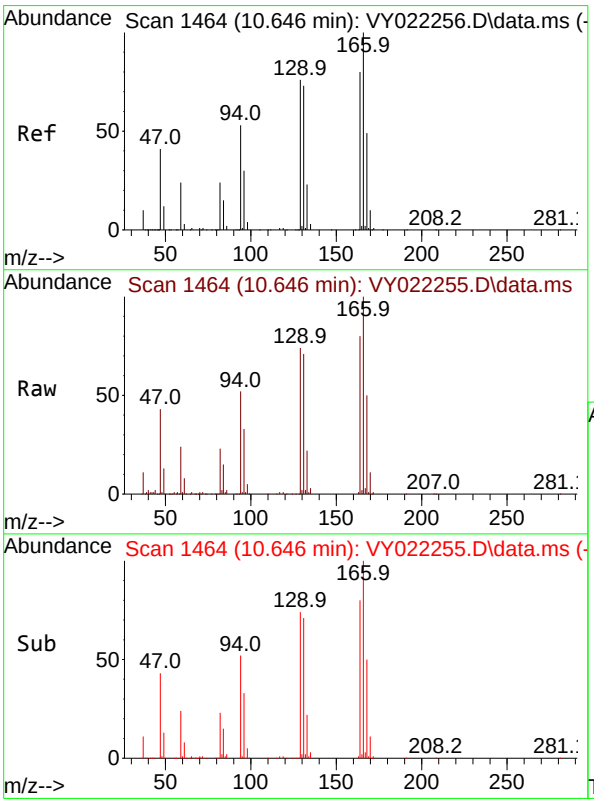
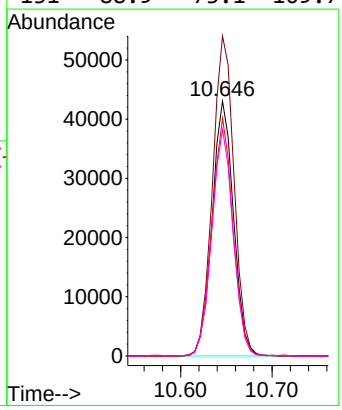
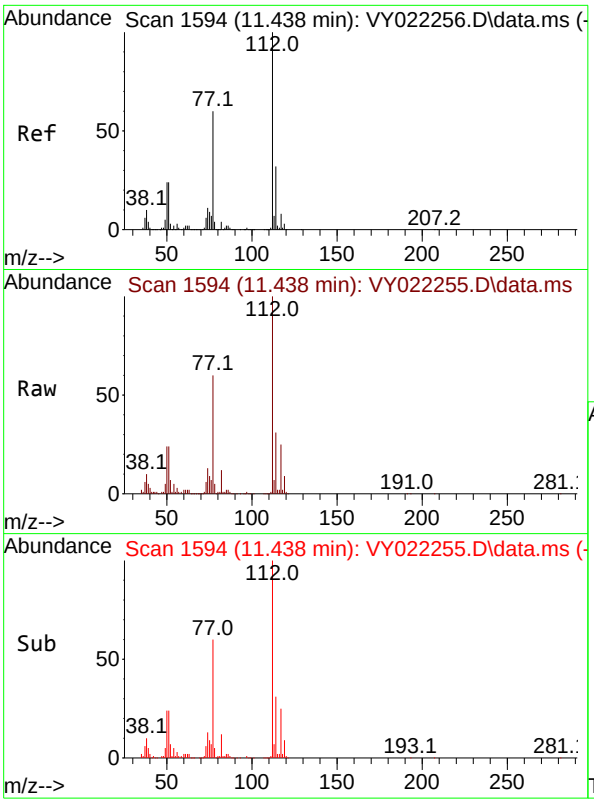


#64
Tetrachloroethene
Concen: 20.332 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion:164 Resp: 69548

Ion	Ratio	Lower	Upper
164	100		
166	125.6	100.4	150.6
129	93.2	76.4	114.6
131	88.9	73.1	109.7

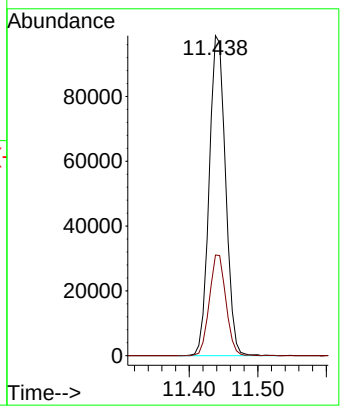




#65
Chlorobenzene
Concen: 19.610 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion:112 Resp: 16372

Ion	Ratio	Lower	Upper
112	100		
114	31.4	25.8	38.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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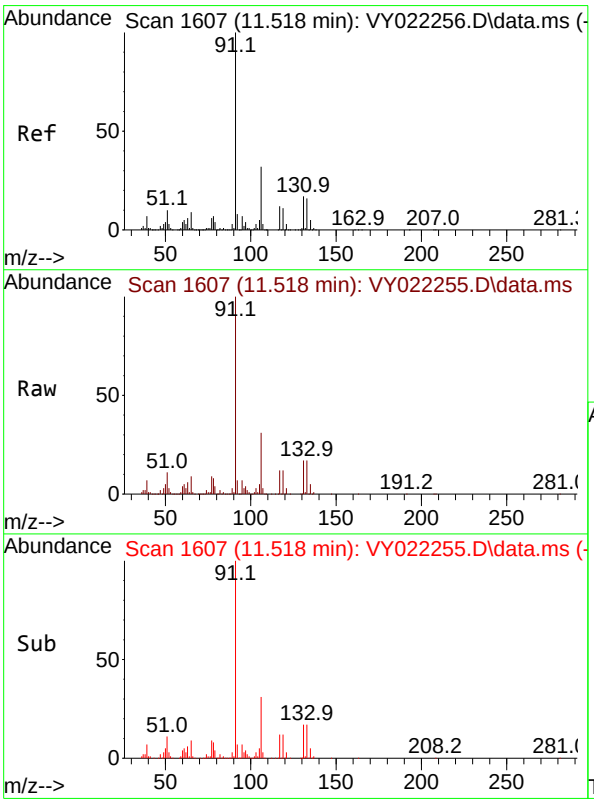
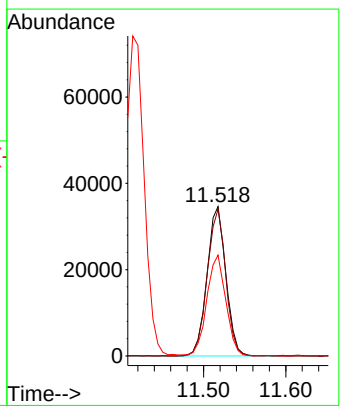
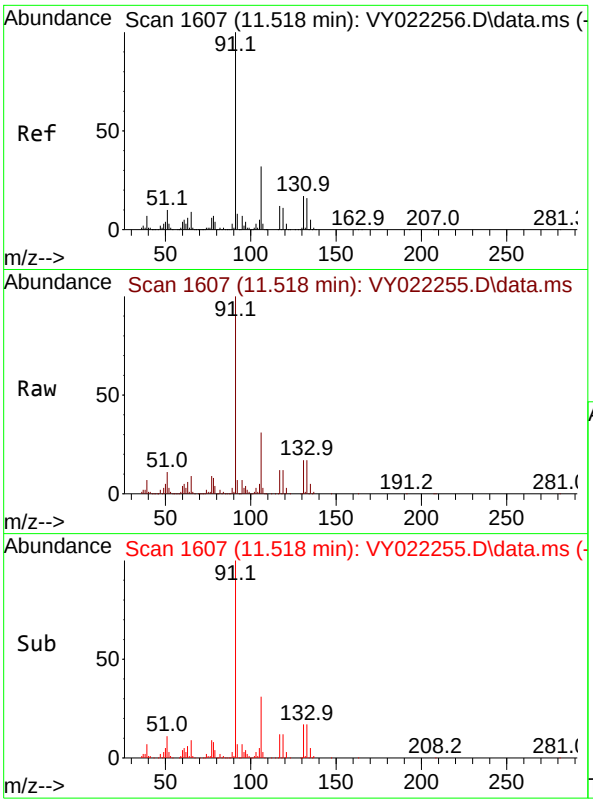


#66
1,1,1,2-Tetrachloroethane
Concen: 19.189 ug/l
RT: 11.518 min Scan# 1607
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion:131 Resp: 55078

Ion	Ratio	Lower	Upper
131	100		
133	96.5	47.3	141.9
119	68.4	33.1	99.2

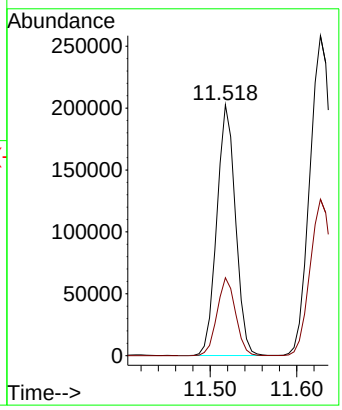




#67
Ethyl Benzene
Concen: 19.402 ug/l
RT: 11.518 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 91 Resp: 30337

Ion	Ratio	Lower	Upper
91	100		
106	31.1	25.4	38.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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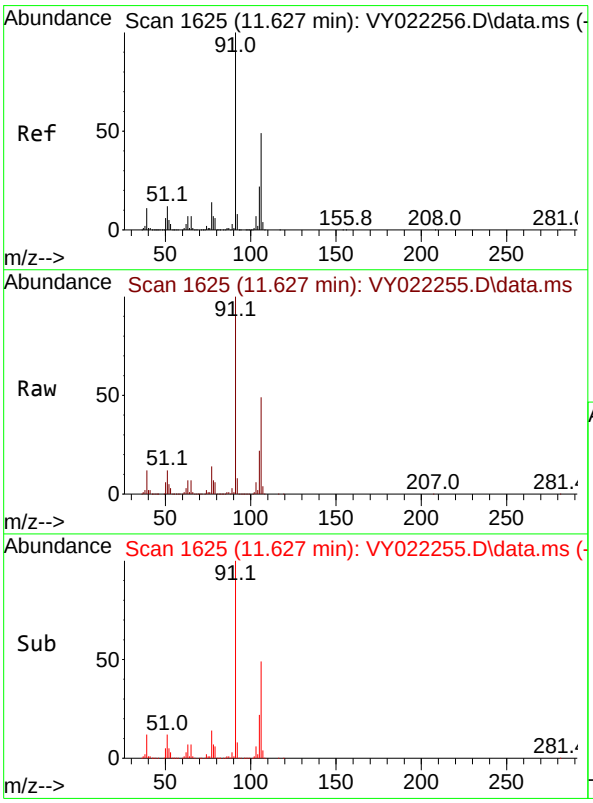
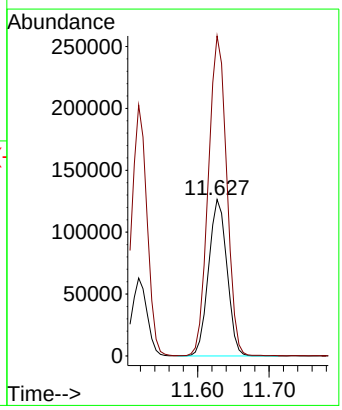
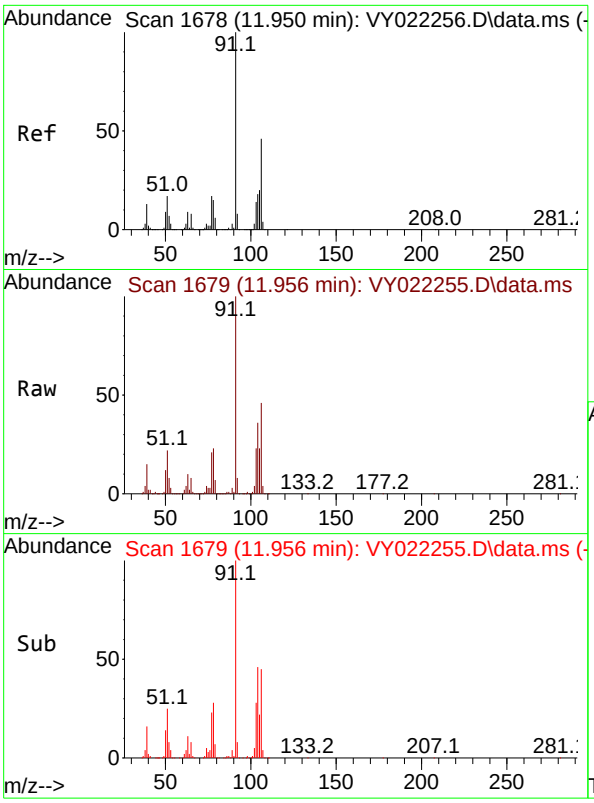


#68
m/p-Xylenes
Concen: 38.355 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion:106 Resp: 225990

Ion	Ratio	Lower	Upper
106	100		
91	204.2	163.0	244.4

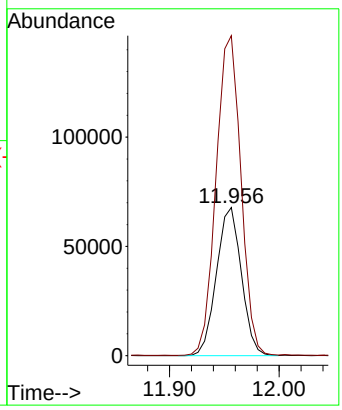




#69
o-Xylene
Concen: 19.194 ug/l
RT: 11.956 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion:106 Resp: 10699

Ion	Ratio	Lower	Upper
106	100		
91	215.7	108.3	324.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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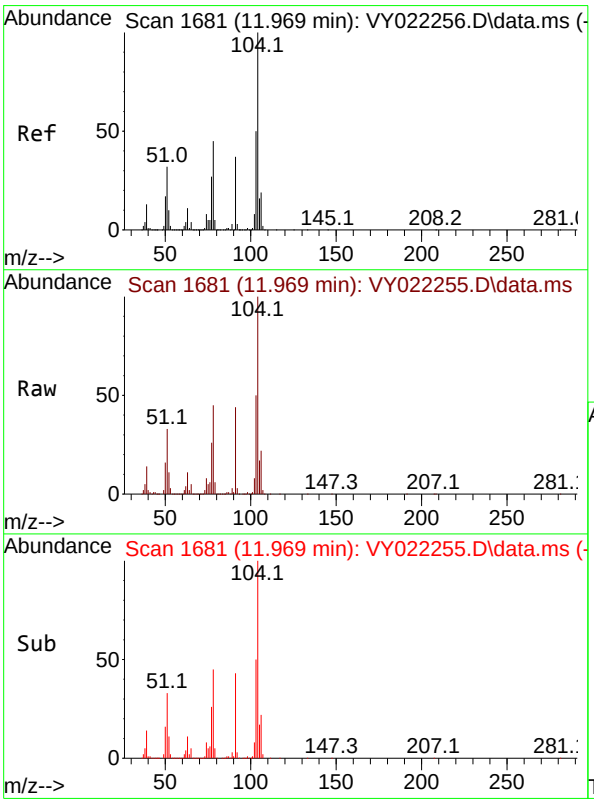
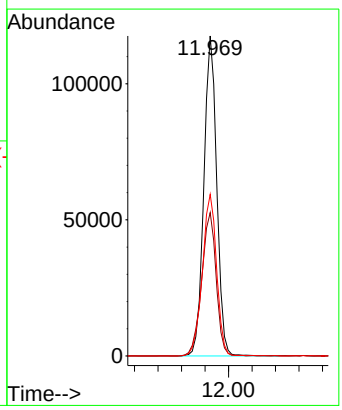
Supervised By :Semsettin Yesilyurt 05/16/2025

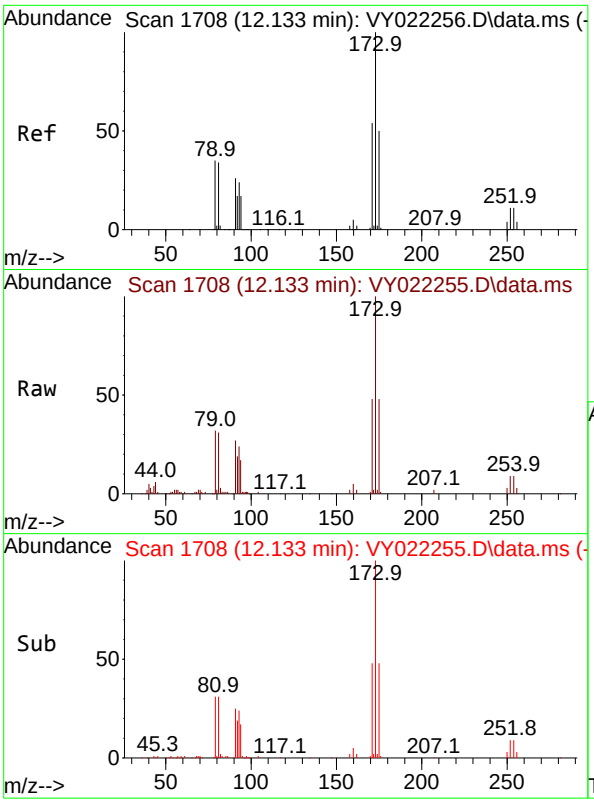


#70
Styrene
Concen: 19.048 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion:104 Resp: 179114

Ion	Ratio	Lower	Upper
104	100		
78	50.3	40.9	61.3
103	55.7	43.7	65.5

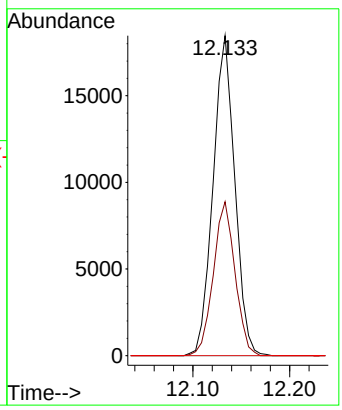




#71
Bromoform
Concen: 18.582 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion:173 Resp: 2878

Ion	Ratio	Lower	Upper
173	100		
175	48.0	24.7	74.1
254	0.0	0.0	0.0



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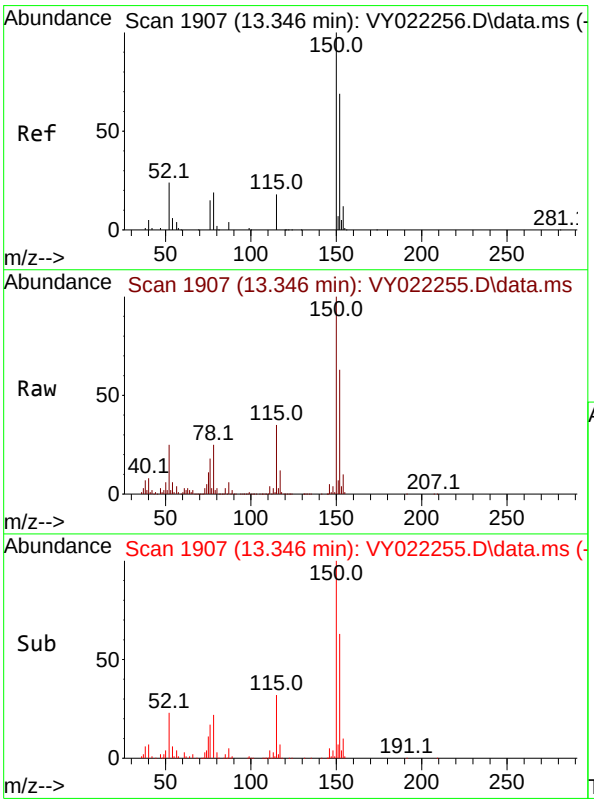
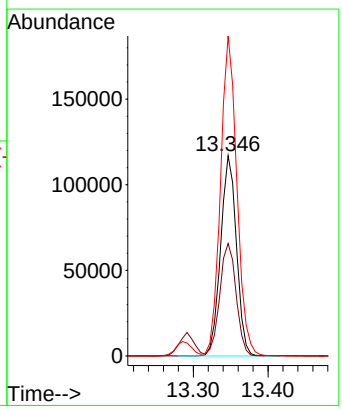
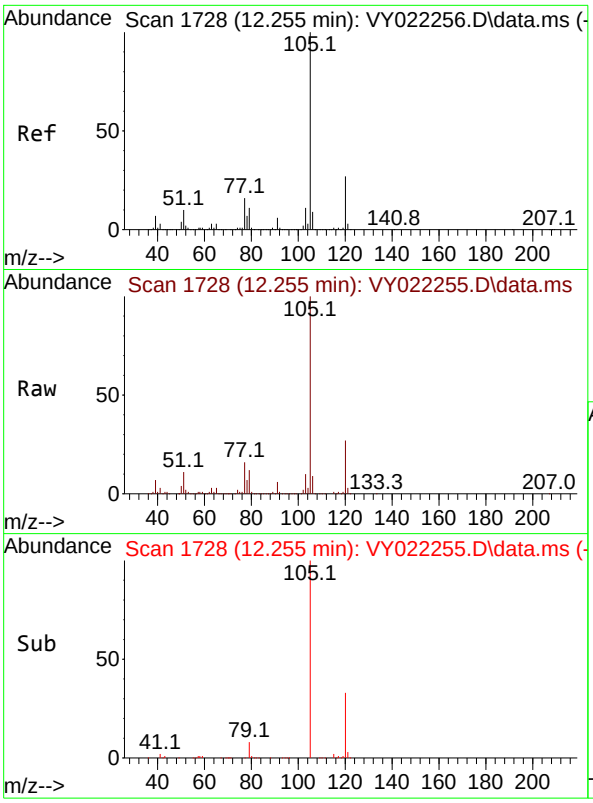


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion:152 Resp: 172509

Ion	Ratio	Lower	Upper
152	100		
115	57.6	29.4	88.2
150	165.2	0.0	353.8

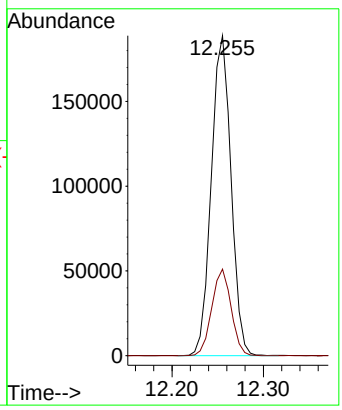




#73
Isopropylbenzene
Concen: 19.795 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion:105 Resp: 28289

Ion	Ratio	Lower	Upper
105	100		
120	26.5	13.2	39.6



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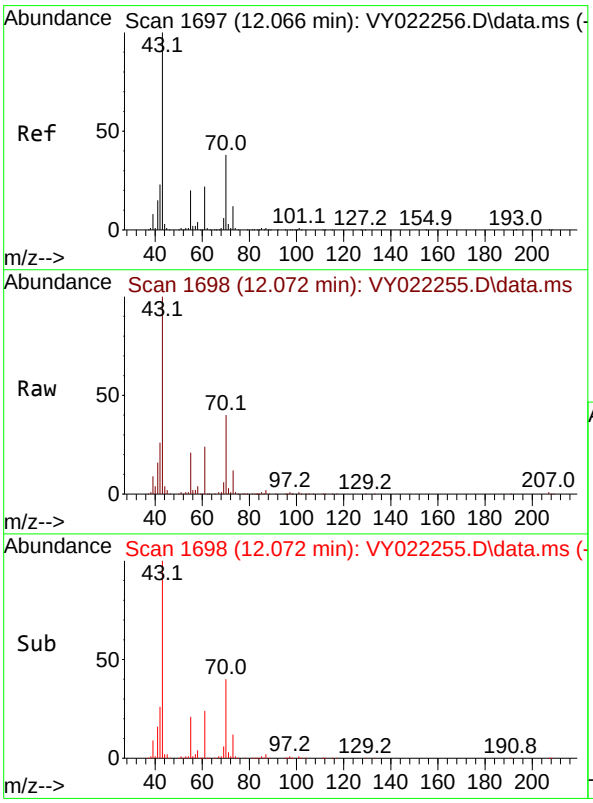
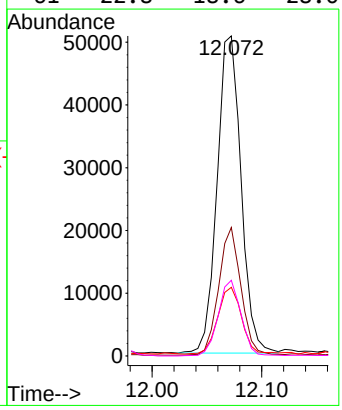
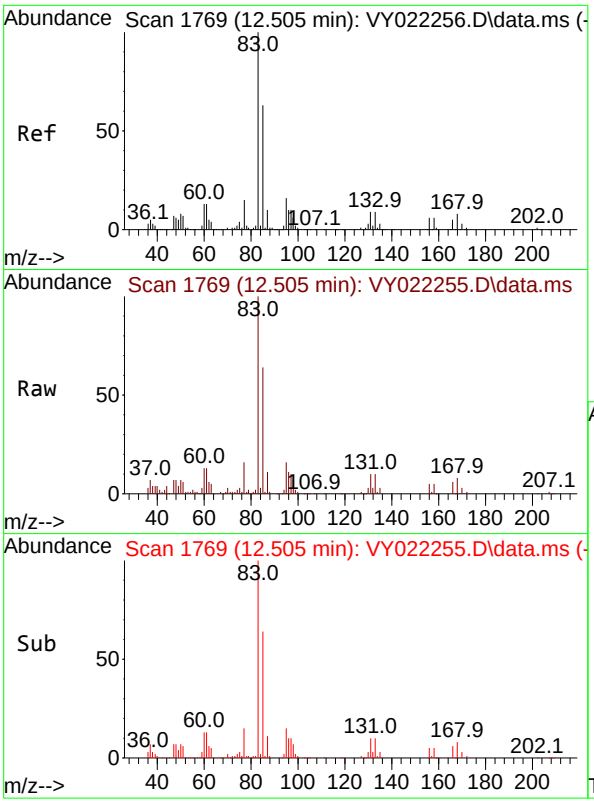


#74
N-amyl acetate
Concen: 18.799 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.006 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 43 Resp: 76841

Ion	Ratio	Lower	Upper
43	100		
70	37.3	31.4	47.0
55	21.3	17.0	25.6
61	22.8	18.6	28.0

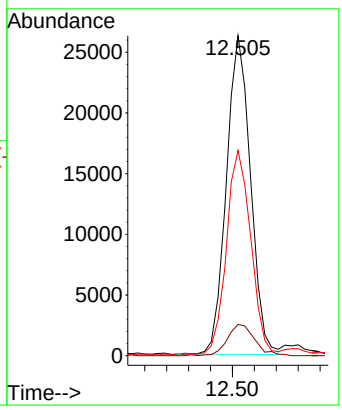




#75
1,1,2,2-Tetrachloroethane
Concen: 18.228 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 83 Resp: 4006

Ion	Ratio	Lower	Upper
83	100		
131	11.1	4.9	14.7
85	65.9	32.0	96.0



Instrument :
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ClientSampleId :
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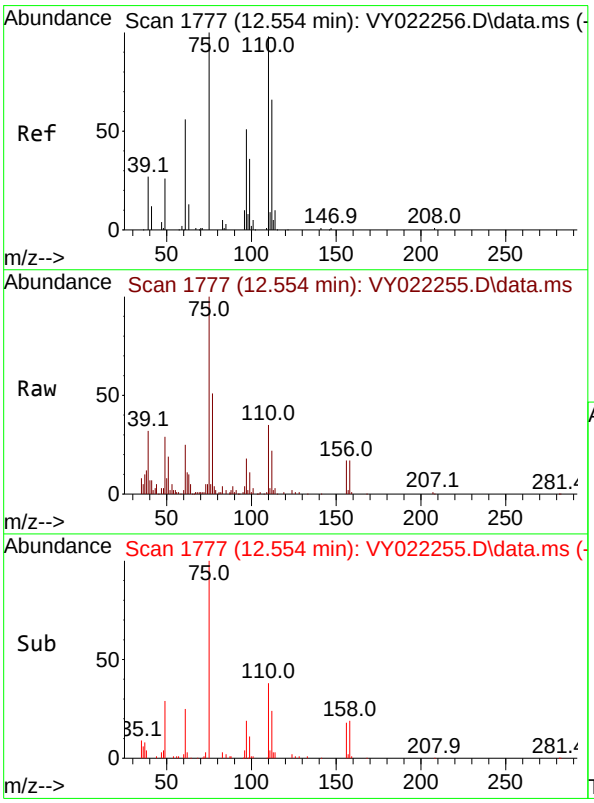
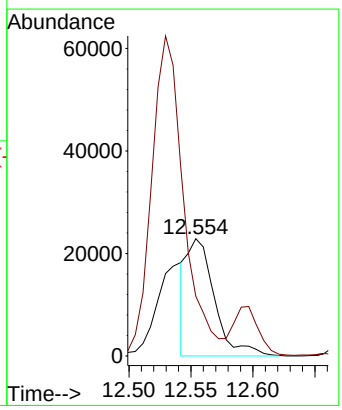
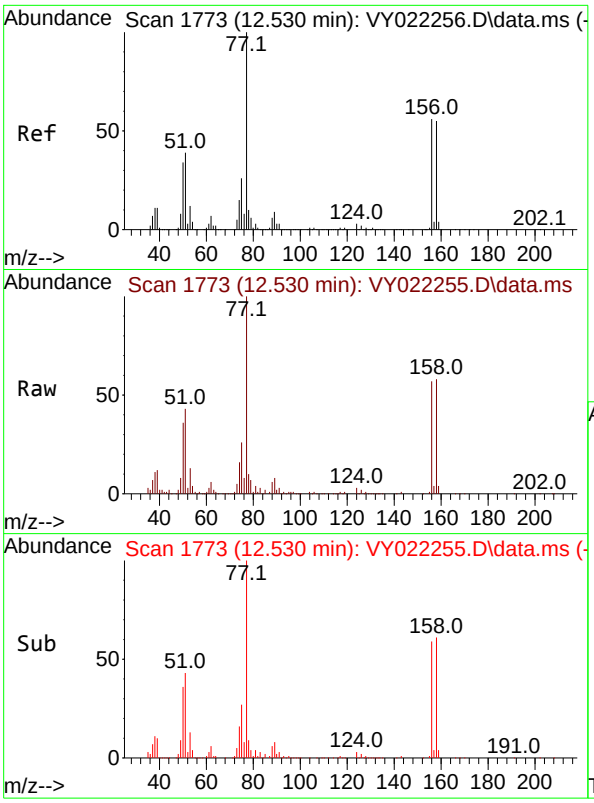


#76
1,2,3-Trichloropropane
Concen: 11.701 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 75 Resp: 35574

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

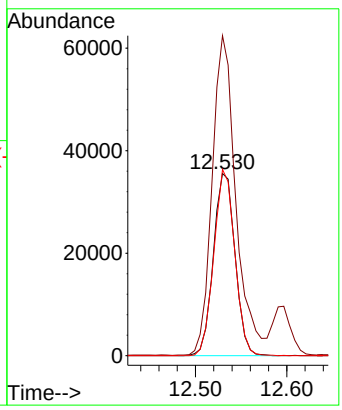




#77
Bromobenzene
Concen: 19.170 ug/l
RT: 12.530 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion:156 Resp: 5851

Ion	Ratio	Lower	Upper
156	100		
77	190.6	94.5	283.6
158	99.0	48.4	145.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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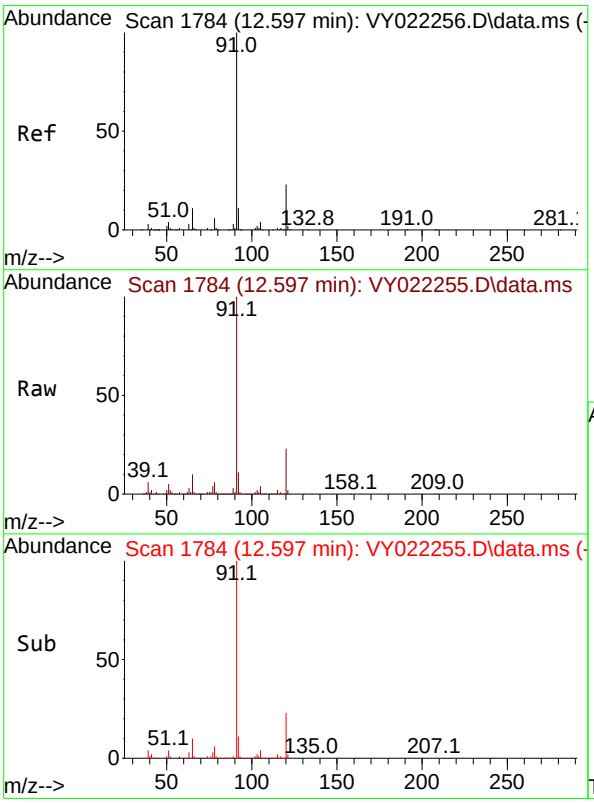
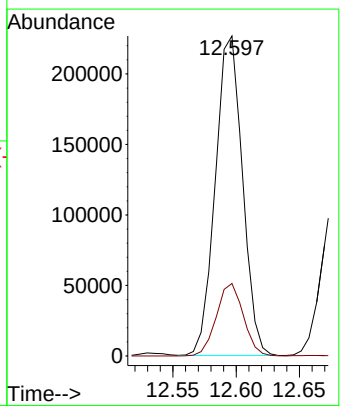
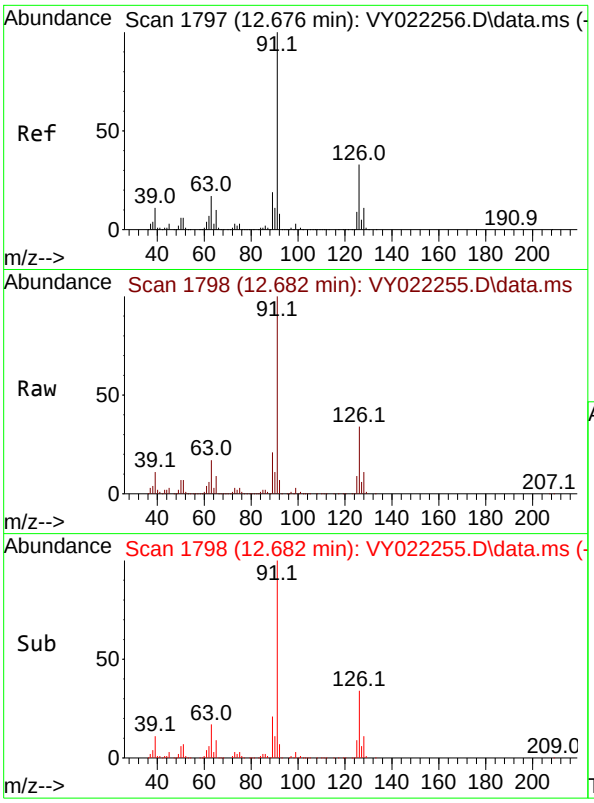


#78
n-propylbenzene
Concen: 19.630 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 91 Resp: 338383

Ion	Ratio	Lower	Upper
91	100		
120	22.5	11.1	33.3

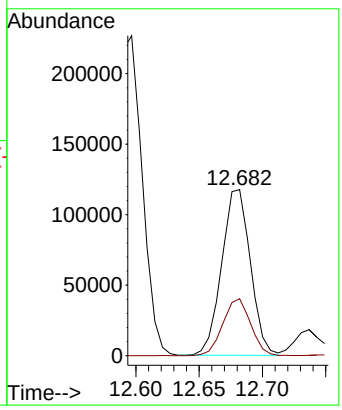




#79
2-Chlorotoluene
Concen: 19.621 ug/l
RT: 12.682 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 91 Resp: 18587

Ion	Ratio	Lower	Upper
91	100		
126	33.3	16.8	50.4



Instrument :
MSVOA_Y
ClientSampleId :
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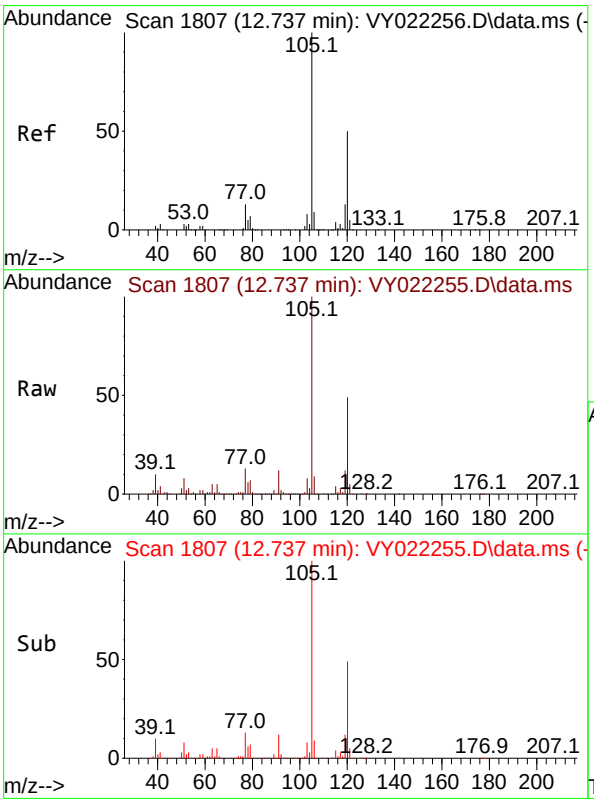
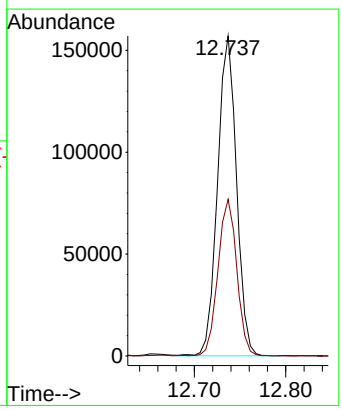
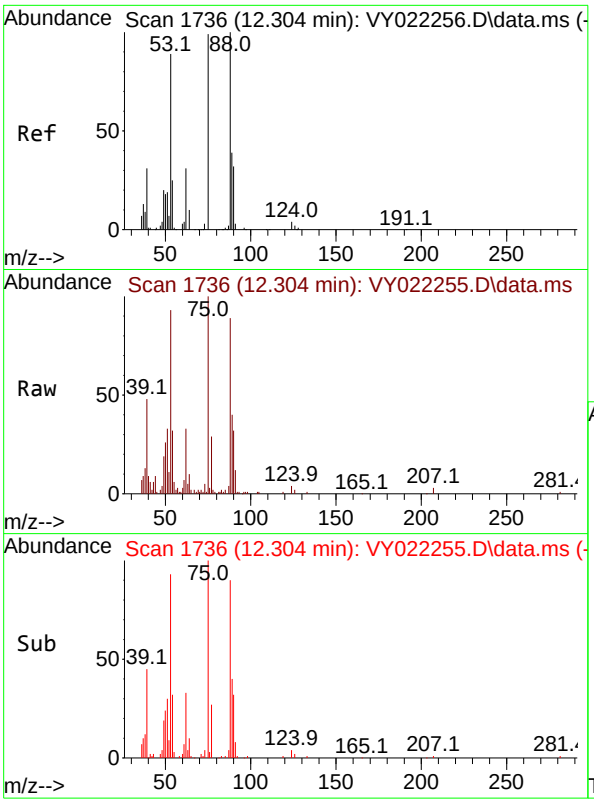


#80
1,3,5-Trimethylbenzene
Concen: 19.587 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion:105 Resp: 225966

Ion	Ratio	Lower	Upper
105	100		
120	48.9	24.2	72.6

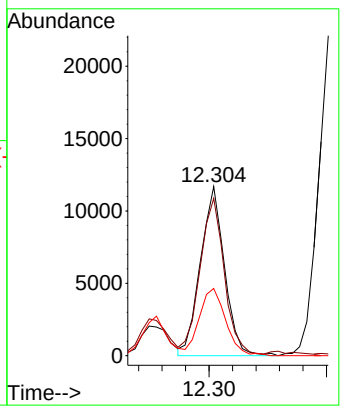




#81
trans-1,4-Dichloro-2-butene
Concen: 19.302 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 75 Resp: 1665

Ion	Ratio	Lower	Upper
75	100		
53	92.5	75.8	113.8
89	43.2	36.2	54.2



Instrument :
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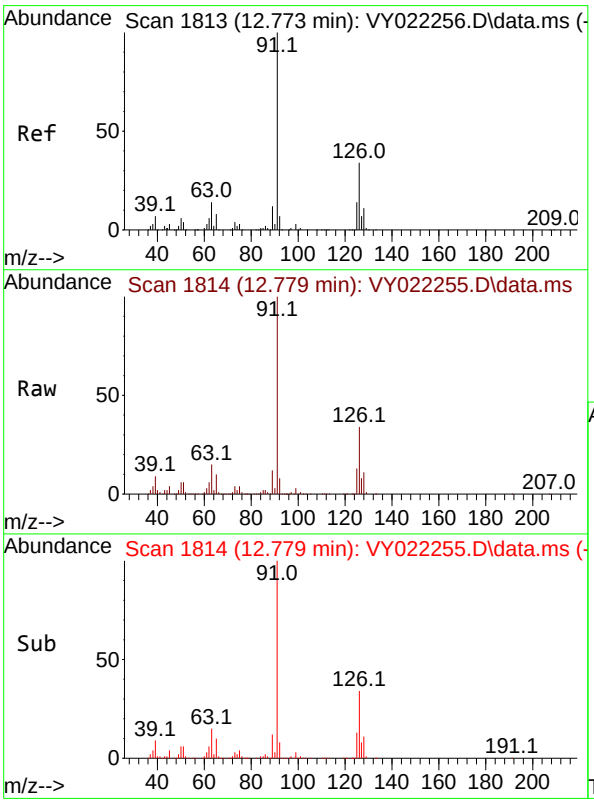
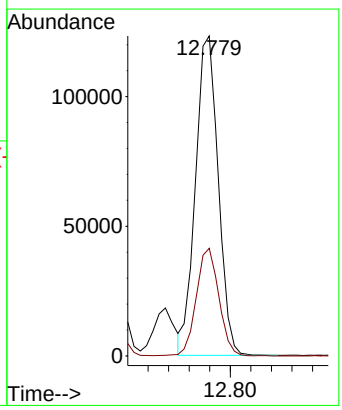
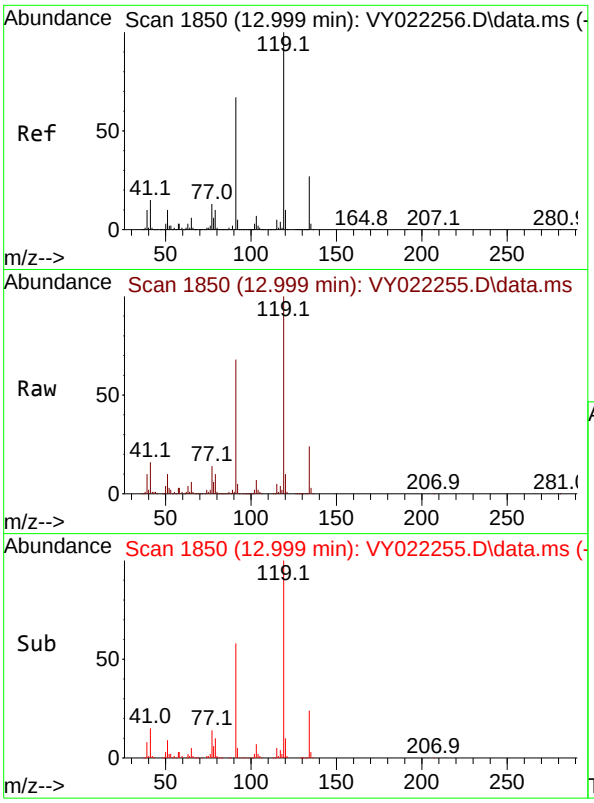


#82
4-Chlorotoluene
Concen: 19.433 ug/l
RT: 12.779 min Scan# 1814
Delta R.T. 0.006 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 91 Resp: 189350

Ion	Ratio	Lower	Upper
91	100		
126	33.6	16.8	50.4





#83
tert-Butylbenzene
Concen: 19.515 ug/l
RT: 12.999 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion:119 Resp: 20010

Ion	Ratio	Lower	Upper
119	100		
91	66.3	32.8	98.3
134	25.6	12.9	38.6

Instrument :
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ClientSampleId :
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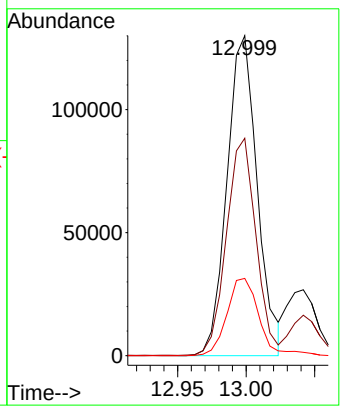
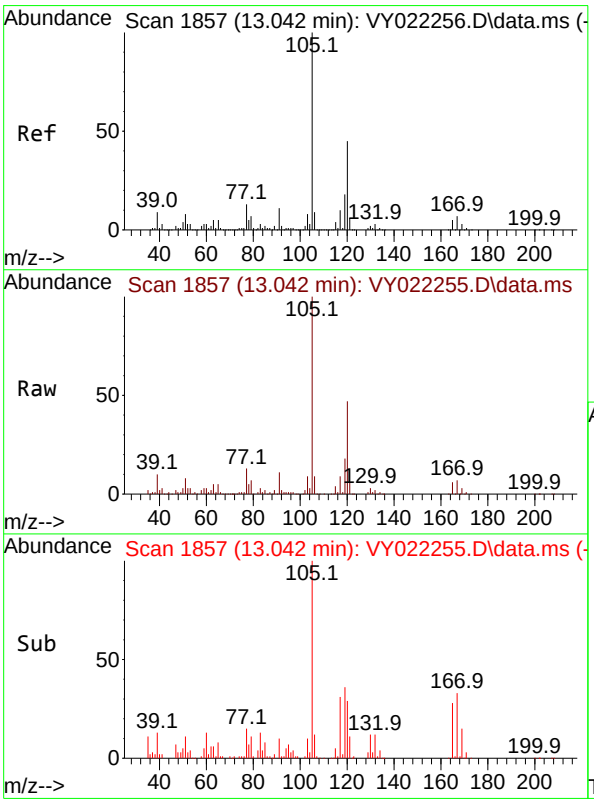
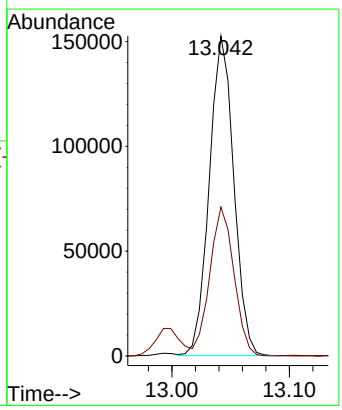


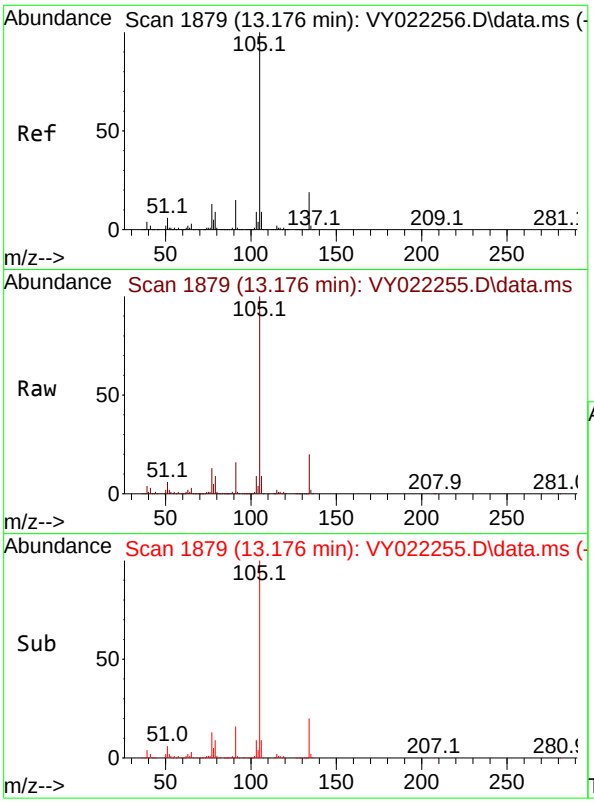


#84
1,2,4-Trimethylbenzene
Concen: 19.315 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion:105 Resp: 221194

Ion	Ratio	Lower	Upper
105	100		
120	45.9	22.3	66.9

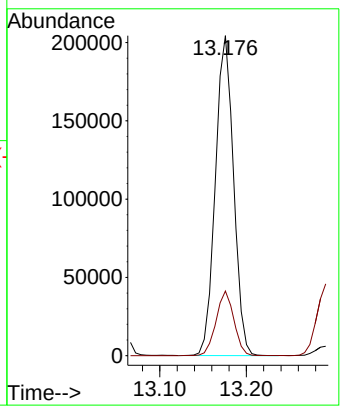




#85
sec-Butylbenzene
Concen: 19.576 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion:105 Resp: 29797

Ion	Ratio	Lower	Upper
105	100		
134	19.9	9.8	29.5



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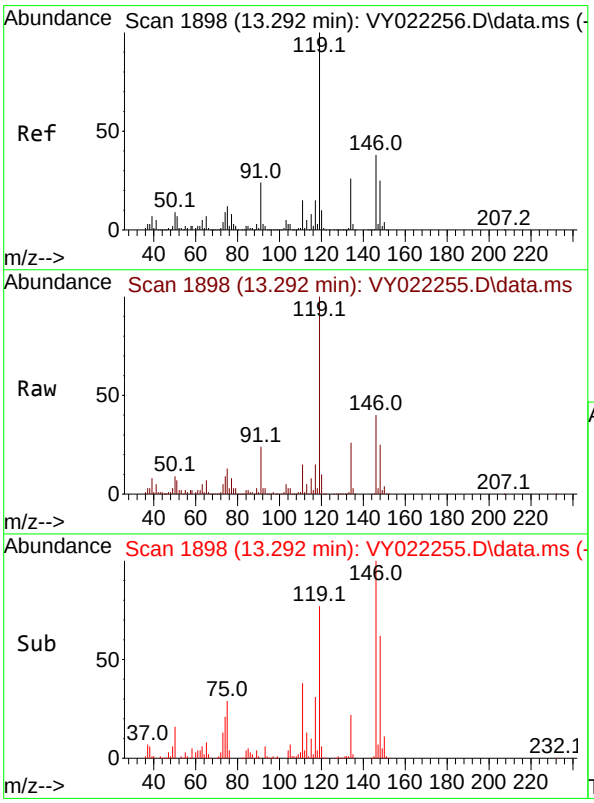
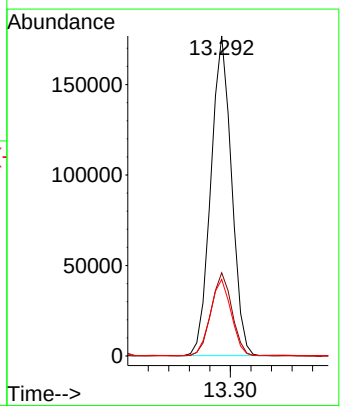
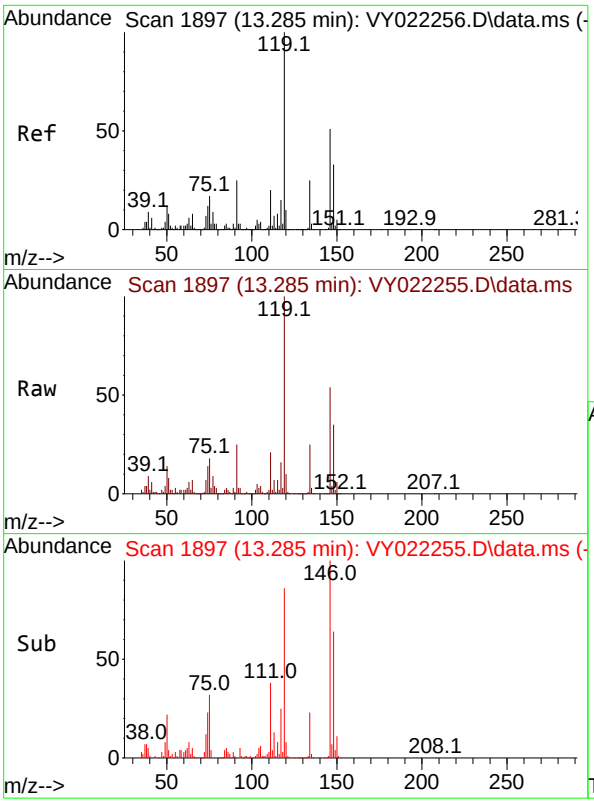


#86
p-Isopropyltoluene
Concen: 19.261 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion:119 Resp: 246569

Ion	Ratio	Lower	Upper
119	100		
134	26.3	12.9	38.6
91	24.2	12.1	36.3

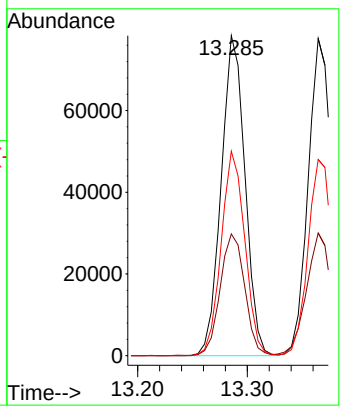




#87
1,3-Dichlorobenzene
Concen: 18.991 ug/l
RT: 13.285 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion:146 Resp: 11833

Ion	Ratio	Lower	Upper
146	100		
111	39.3	19.9	59.7
148	63.4	31.9	95.7



Instrument :
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ClientSampleId :
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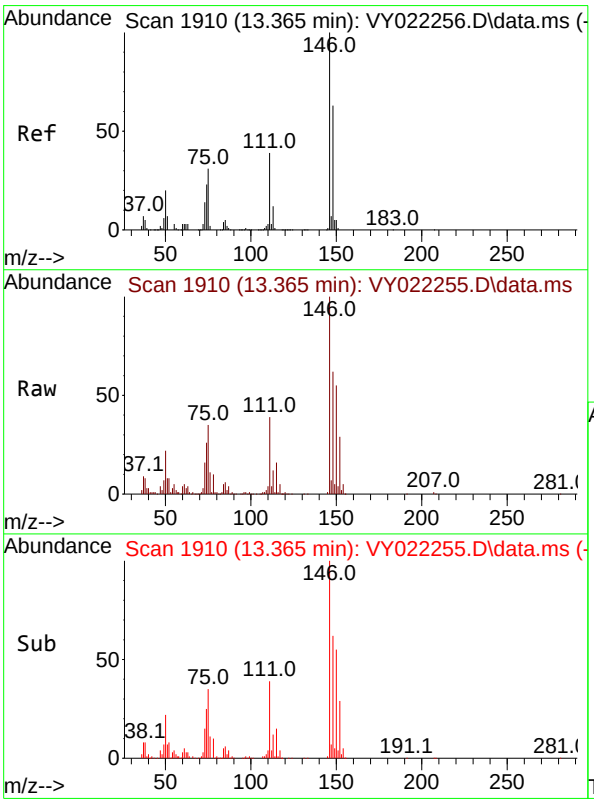
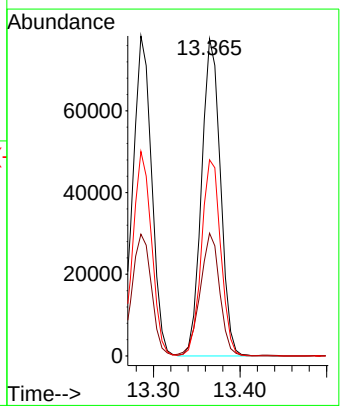
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

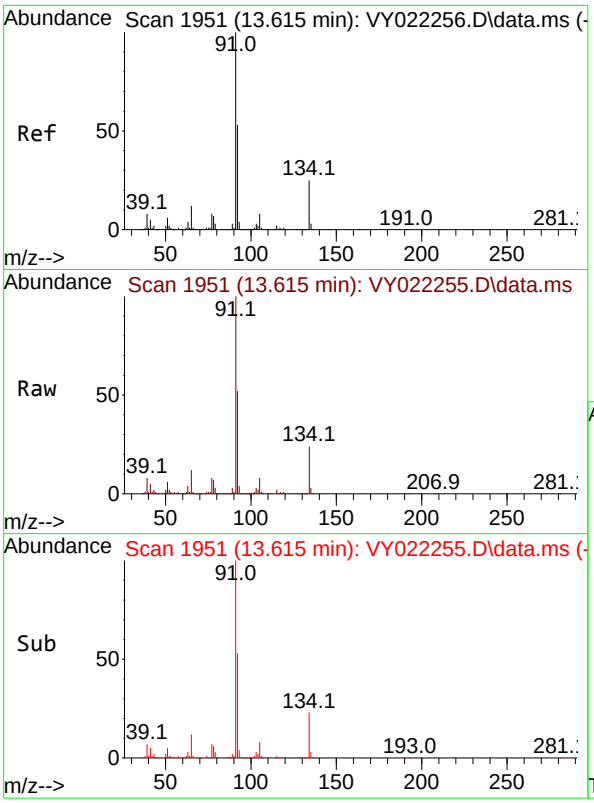


#88
1,4-Dichlorobenzene
Concen: 19.638 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion:146 Resp: 117705

Ion	Ratio	Lower	Upper
146	100		
111	39.8	20.0	59.9
148	63.3	32.1	96.5

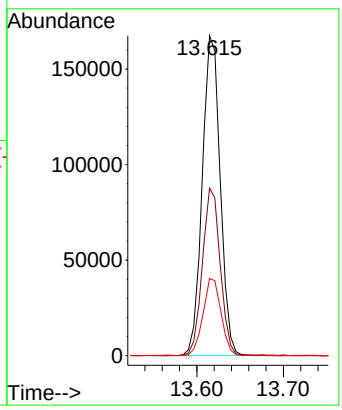




#89
n-Butylbenzene
Concen: 19.887 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 91 Resp: 24085

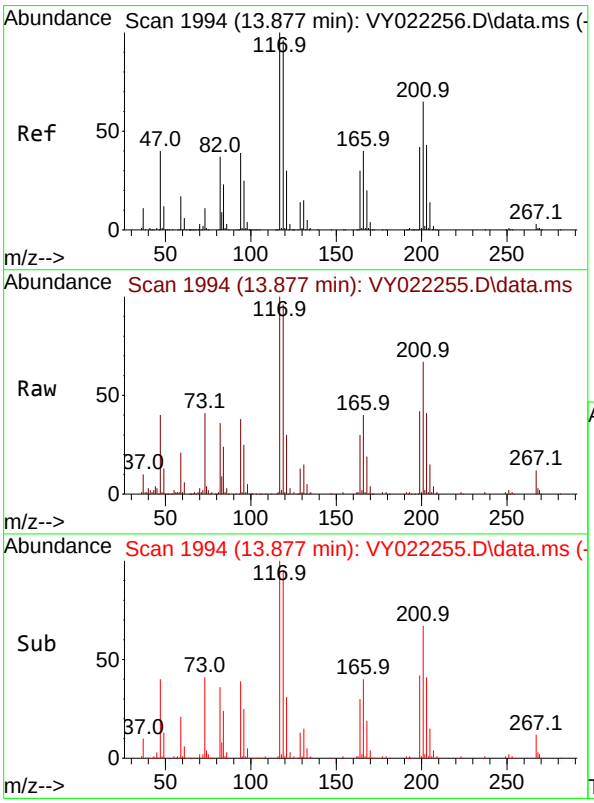
Ion	Ratio	Lower	Upper
91	100		
92	52.0	26.3	78.9
134	24.3	12.4	37.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

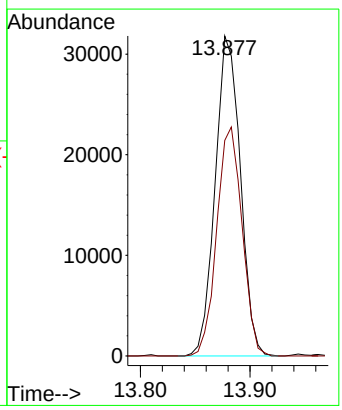
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

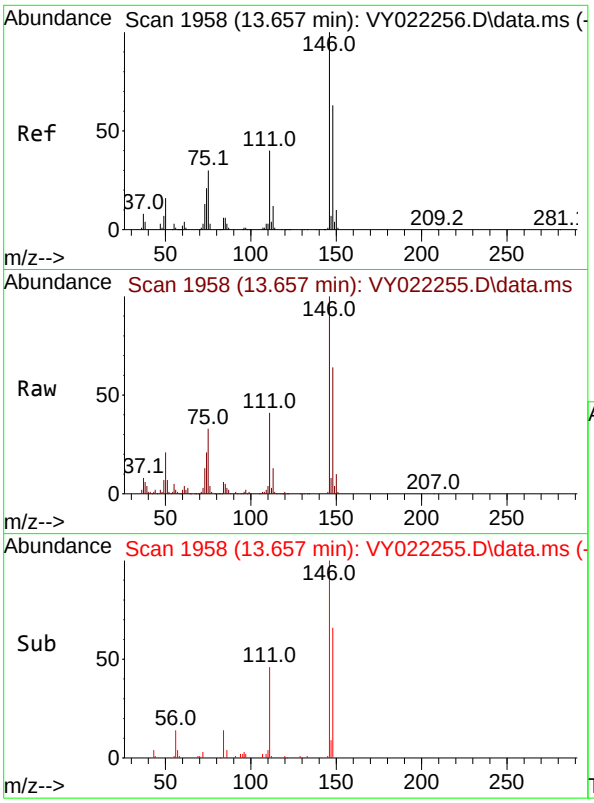


#90
Hexachloroethane
Concen: 19.643 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion:117 Resp: 50762

Ion	Ratio	Lower	Upper
117	100		
201	72.0	35.2	105.6

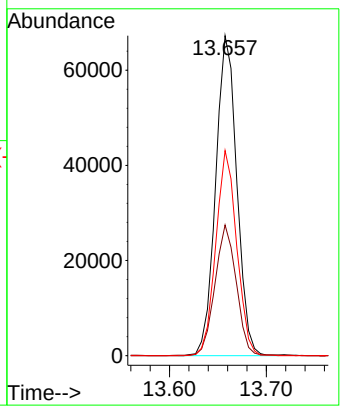




#91
1,2-Dichlorobenzene
Concen: 19.502 ug/l
RT: 13.657 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion:146 Resp: 10207

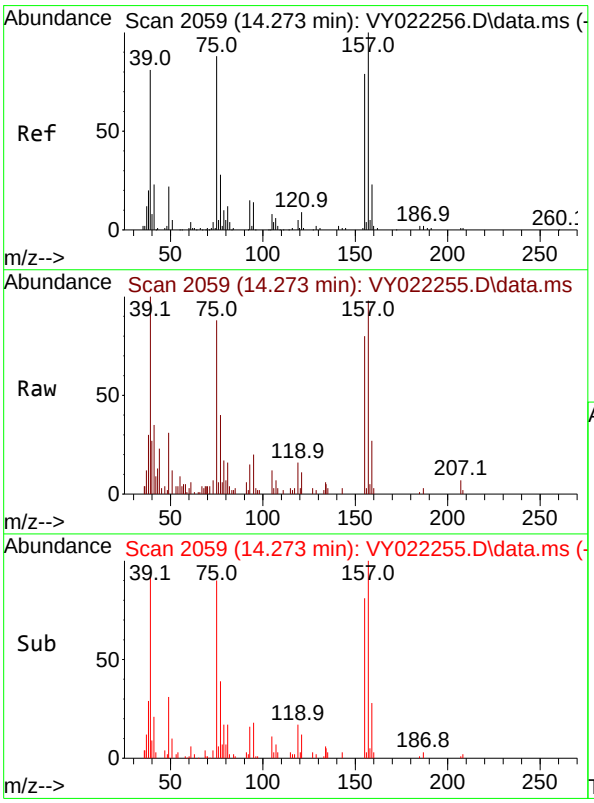
Ion	Ratio	Lower	Upper
146	100		
111	41.4	20.5	61.5
148	63.2	32.0	96.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

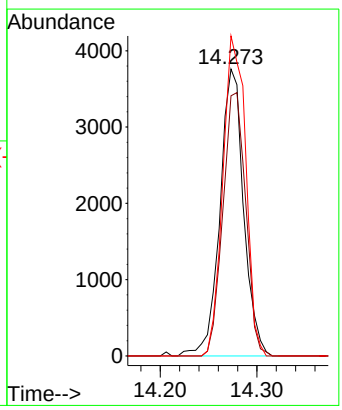
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

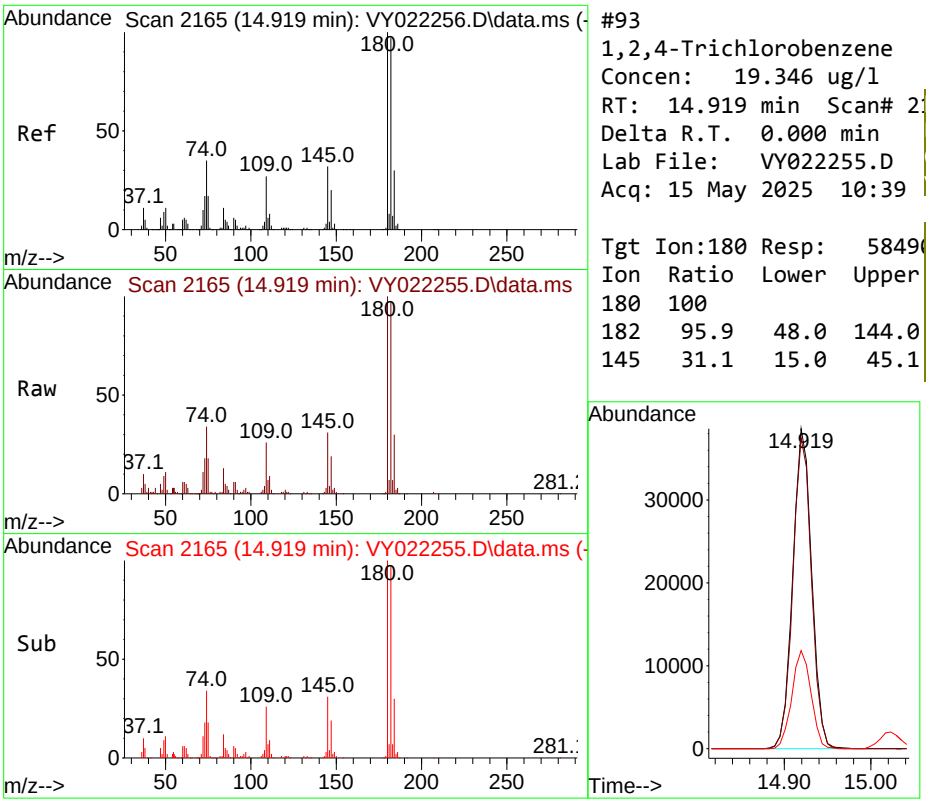


#92
1,2-Dibromo-3-Chloropropane
Concen: 18.021 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 75 Resp: 6387

Ion	Ratio	Lower	Upper
75	100		
155	88.5	43.4	130.1
157	107.4	54.6	163.9





#93
1,2,4-Trichlorobenzene
Concen: 19.346 ug/l
RT: 14.919 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

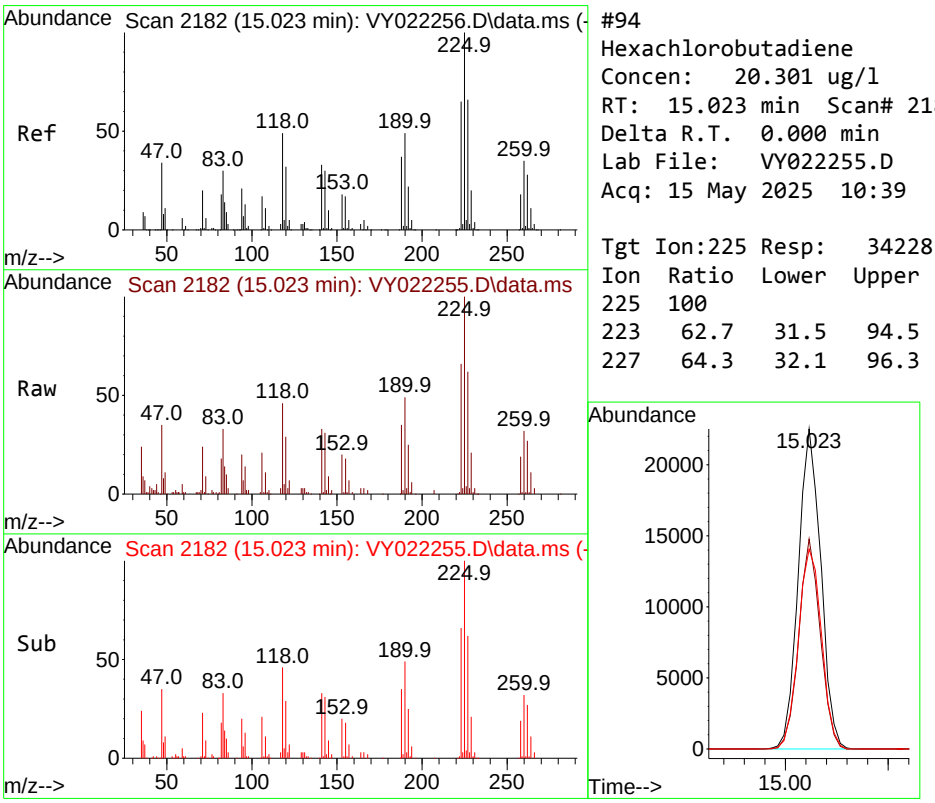
Tgt Ion:180 Resp: 5849

Ion	Ratio	Lower	Upper
180	100		
182	95.9	48.0	144.0
145	31.1	15.0	45.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

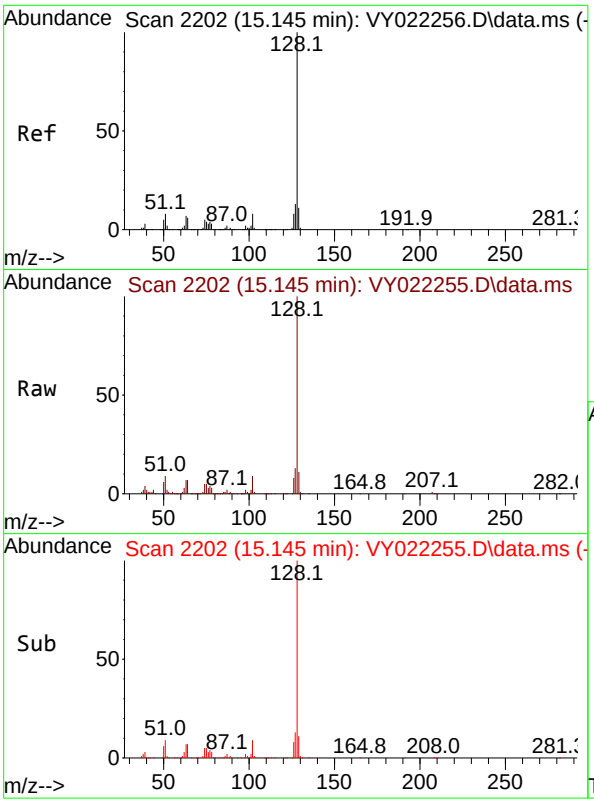
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025



#94
Hexachlorobutadiene
Concen: 20.301 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion:225 Resp: 34228

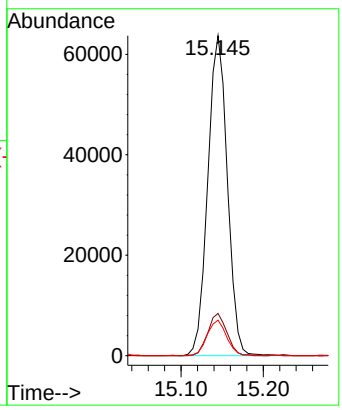
Ion	Ratio	Lower	Upper
225	100		
223	62.7	31.5	94.5
227	64.3	32.1	96.3



#95
Naphthalene
Concen: 18.362 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion:128 Resp: 10535

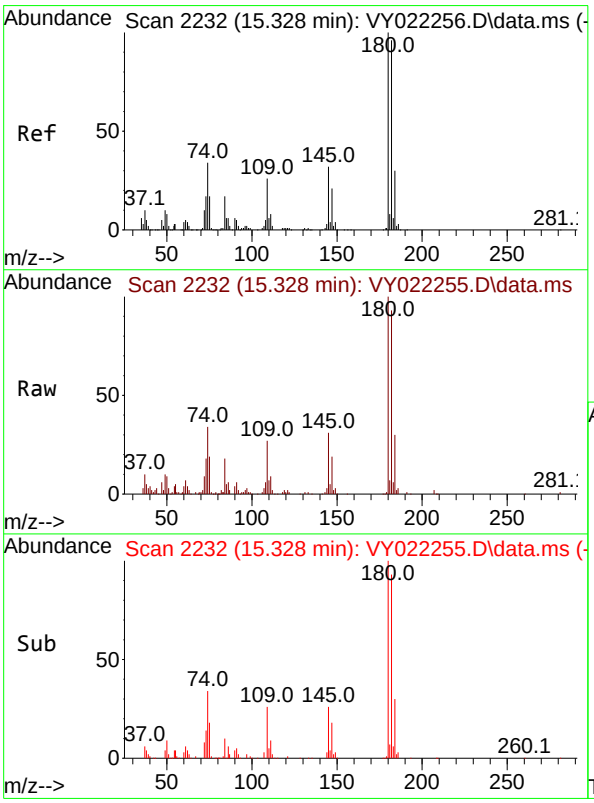
Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.2	15.2
129	11.0	8.8	13.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

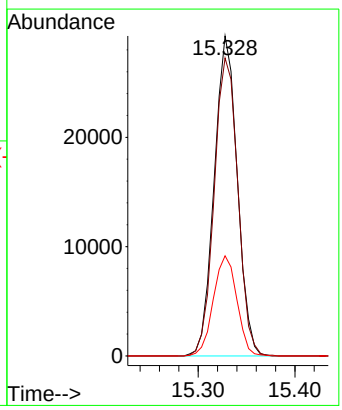
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025



#96
1,2,3-Trichlorobenzene
Concen: 18.888 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion:180 Resp: 48444

Ion	Ratio	Lower	Upper
180	100		
182	95.5	47.1	141.3
145	31.9	15.9	47.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022256.D
Acq On : 15 May 2025 11:02
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

Quant Time: May 16 01:23:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:19:39 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	267598	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	439323	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	377571	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	180358	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	144713	49.481	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 98.960%			
35) Dibromofluoromethane	7.634	113	132404	50.495	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 100.980%			
50) Toluene-d8	10.103	98	540296	50.311	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 100.620%			
62) 4-Bromofluorobenzene	12.408	95	169827	49.891	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 99.780%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.861	85	135726	48.608	ug/l	100
3) Chloromethane	2.062	50	278892	47.481	ug/l	100
4) Vinyl Chloride	2.202	62	323792	49.341	ug/l	100
5) Bromomethane	2.592	94	234736	43.941	ug/l	100
6) Chloroethane	2.732	64	202370	49.569	ug/l	100
7) Trichlorofluoromethane	3.050	101	324887	48.898	ug/l	100
8) Diethyl Ether	3.452	74	78670	49.338	ug/l	100
9) 1,1,2-Trichlorotrifluo...	3.818	101	144018	49.930	ug/l	100
10) Methyl Iodide	4.007	142	183918	55.091	ug/l	100
11) Tert butyl alcohol	4.872	59	51598	231.036	ug/l #	100
12) 1,1-Dichloroethene	3.787	96	144103	50.344	ug/l	100
13) Acrolein	3.653	56	75423	231.010	ug/l	100
14) Allyl chloride	4.379	41	256499	51.106	ug/l	100
15) Acrylonitrile	5.061	53	160496	244.283	ug/l	100
16) Acetone	3.873	43	124421	226.888	ug/l	100
17) Carbon Disulfide	4.104	76	468979	50.244	ug/l	100
18) Methyl Acetate	4.385	43	80820	48.436	ug/l	100
19) Methyl tert-butyl Ether	5.116	73	390412	49.466	ug/l	100
20) Methylene Chloride	4.616	84	159764	45.087	ug/l	100
21) trans-1,2-Dichloroethene	5.110	96	158544	50.181	ug/l	100
22) Diisopropyl ether	6.019	45	531560	50.152	ug/l	100
23) Vinyl Acetate	5.958	43	1570214	245.223	ug/l	100
24) 1,1-Dichloroethane	5.915	63	298823	50.465	ug/l	100
25) 2-Butanone	6.896	43	215828	235.291	ug/l	100
26) 2,2-Dichloropropane	6.884	77	264141	50.153	ug/l	100
27) cis-1,2-Dichloroethene	6.890	96	184842	50.698	ug/l	100
28) Bromochloromethane	7.244	49	126541	50.100	ug/l	100
29) Tetrahydrofuran	7.262	42	142772	241.931	ug/l	100
30) Chloroform	7.421	83	288708	50.831	ug/l	100
31) Cyclohexane	7.701	56	282375	47.728	ug/l	100
32) 1,1,1-Trichloroethane	7.616	97	259382	49.777	ug/l	100
36) 1,1-Dichloropropene	7.835	75	221943	51.388	ug/l	100
37) Ethyl Acetate	6.988	43	102924	49.529	ug/l	100
38) Carbon Tetrachloride	7.817	117	226903	50.754	ug/l	100
39) Methylcyclohexane	9.109	83	294336	50.726	ug/l	100
40) Benzene	8.079	78	658644	51.442	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022256.D
Acq On : 15 May 2025 11:02
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 16 01:23:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:19:39 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.220	41	69476m	45.691	ug/l		
42) 1,2-Dichloroethane	8.158	62	176425	50.954	ug/l		100
43) Isopropyl Acetate	8.195	43	225628	49.785	ug/l		100
44) Trichloroethene	8.866	130	162802	51.138	ug/l		100
45) 1,2-Dichloropropane	9.140	63	156870	50.819	ug/l		100
46) Dibromomethane	9.231	93	82994	49.849	ug/l		100
47) Bromodichloromethane	9.420	83	222159	51.435	ug/l		100
48) Methyl methacrylate	9.219	41	105390	49.726	ug/l		100
49) 1,4-Dioxane	9.231	88	18027	958.446	ug/l		100
51) 4-Methyl-2-Pentanone	9.999	43	556123	250.085	ug/l		100
52) Toluene	10.170	92	414584	51.134	ug/l		100
53) t-1,3-Dichloropropene	10.390	75	213993	50.768	ug/l		100
54) cis-1,3-Dichloropropene	9.853	75	246990	51.143	ug/l		100
55) 1,1,2-Trichloroethane	10.573	97	106676	50.036	ug/l		100
56) Ethyl methacrylate	10.438	69	167259	50.364	ug/l		100
57) 1,3-Dichloropropane	10.719	76	192275	50.759	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.707	63	403074	270.408	ug/l		100
59) 2-Hexanone	10.762	43	365111	244.881	ug/l		100
60) Dibromochloromethane	10.908	129	141896	51.278	ug/l		100
61) 1,2-Dibromoethane	11.012	107	99822	50.236	ug/l		100
64) Tetrachloroethene	10.646	164	178854	51.249	ug/l		100
65) Chlorobenzene	11.438	112	435874	51.169	ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.518	131	148798	50.811	ug/l		100
67) Ethyl Benzene	11.518	91	821168	51.473	ug/l		100
68) m/p-Xylenes	11.627	106	617646	102.746	ug/l		100
69) o-Xylene	11.950	106	289897	50.971	ug/l		100
70) Styrene	11.969	104	491792	51.260	ug/l		100
71) Bromoform	12.133	173	78794	49.849	ug/l	#	100
73) Isopropylbenzene	12.255	105	756905	50.657	ug/l		100
74) N-amyl acetate	12.066	43	209097	48.930	ug/l		100
75) 1,1,2,2-Tetrachloroethane	12.505	83	113234	49.277	ug/l		100
76) 1,2,3-Trichloropropane	12.554	75	90281m	28.402	ug/l		
77) Bromobenzene	12.530	156	161475	50.599	ug/l		100
78) n-propylbenzene	12.597	91	924664	51.306	ug/l		100
79) 2-Chlorotoluene	12.676	91	505684	51.058	ug/l		100
80) 1,3,5-Trimethylbenzene	12.737	105	615033	50.991	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.304	75	42692	47.331	ug/l		100
82) 4-Chlorotoluene	12.773	91	524270	51.464	ug/l		100
83) tert-Butylbenzene	12.999	119	546231	50.952	ug/l		100
84) 1,2,4-Trimethylbenzene	13.042	105	615550	51.410	ug/l		100
85) sec-Butylbenzene	13.176	105	824725	51.825	ug/l		100
86) p-Isopropyltoluene	13.292	119	688561	51.446	ug/l		100
87) 1,3-Dichlorobenzene	13.285	146	331536	50.890	ug/l		100
88) 1,4-Dichlorobenzene	13.365	146	315598	50.363	ug/l		100
89) n-Butylbenzene	13.615	91	661532	52.245	ug/l		100
90) Hexachloroethane	13.877	117	137225	50.791	ug/l		100
91) 1,2-Dichlorobenzene	13.657	146	276666	50.558	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.273	75	18039	48.682	ug/l		100
93) 1,2,4-Trichlorobenzene	14.919	180	162275	51.338	ug/l		100
94) Hexachlorobutadiene	15.023	225	90452	51.313	ug/l		100
95) Naphthalene	15.145	128	298075	49.692	ug/l		100
96) 1,2,3-Trichlorobenzene	15.328	180	135673	50.596	ug/l		100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022256.D
Acq On : 15 May 2025 11:02
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

Quant Time: May 16 01:23:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:19:39 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

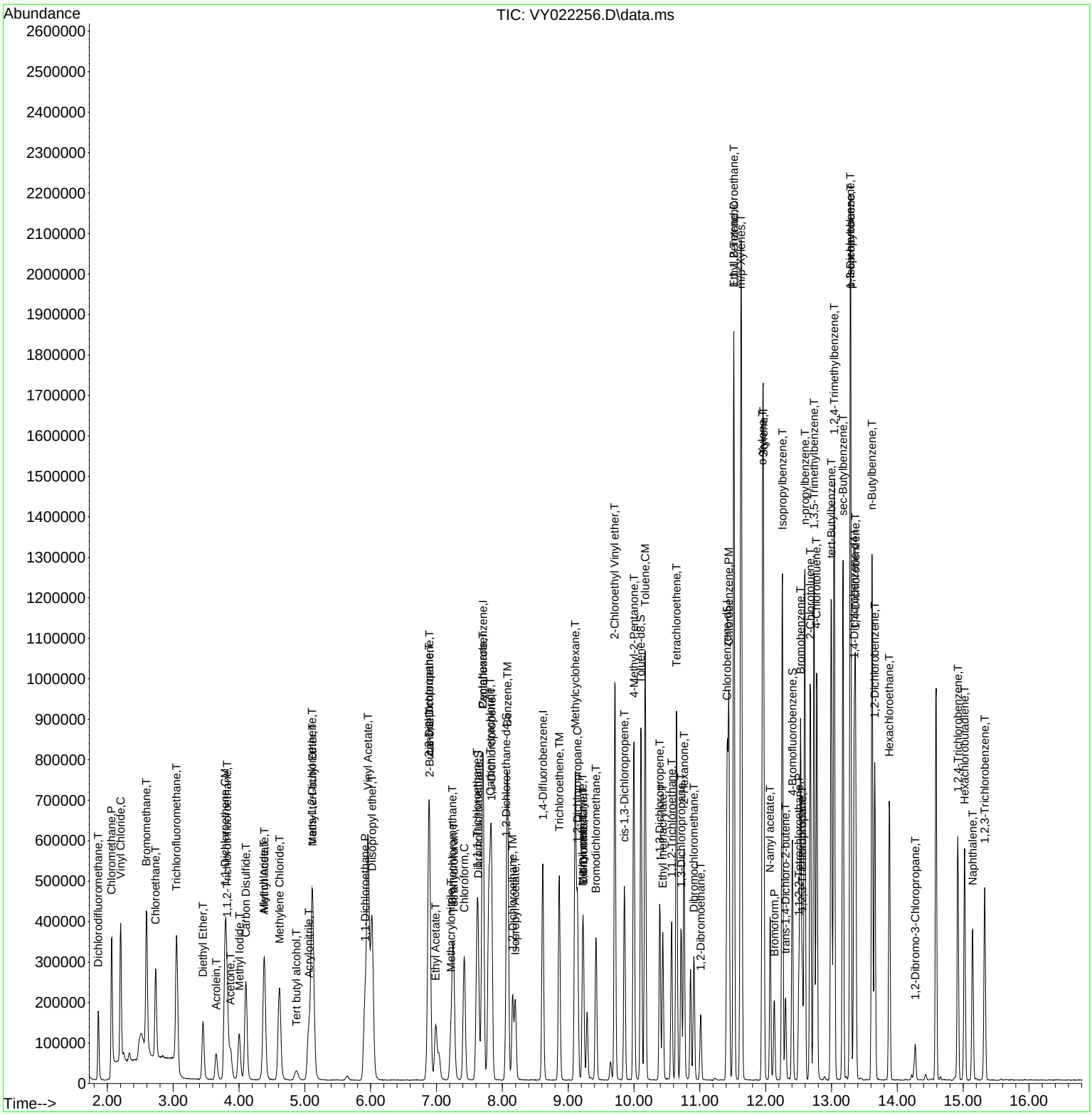
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022256.D
Acq On : 15 May 2025 11:02
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

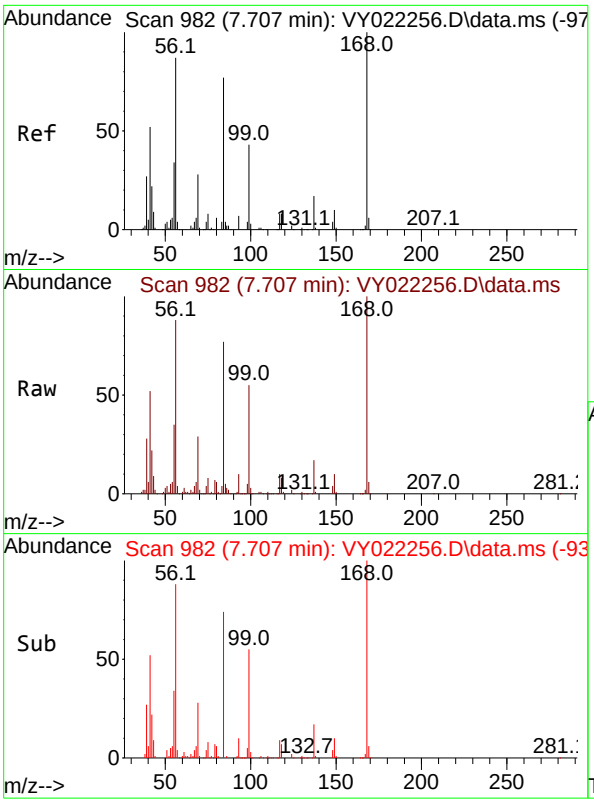
Quant Time: May 16 01:23:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:19:39 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

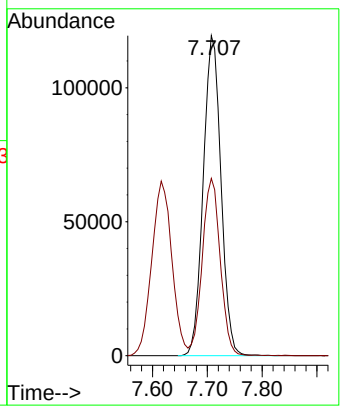




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion:168 Resp: 26759

Ion	Ratio	Lower	Upper
168	100		
99	55.3	44.2	66.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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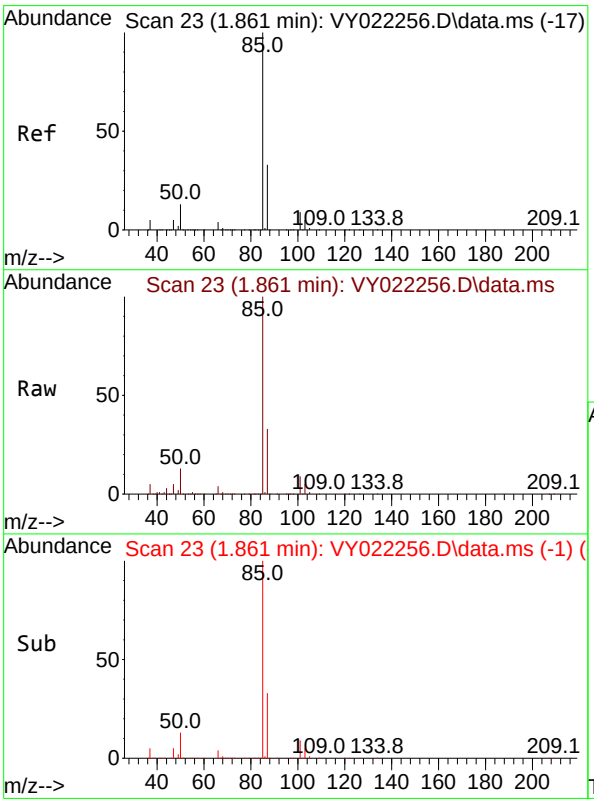
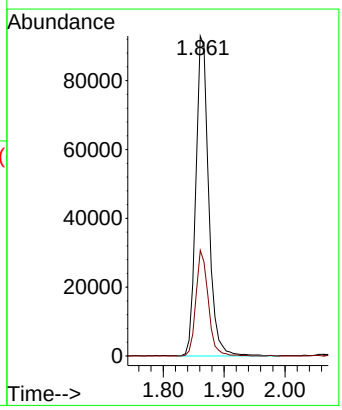
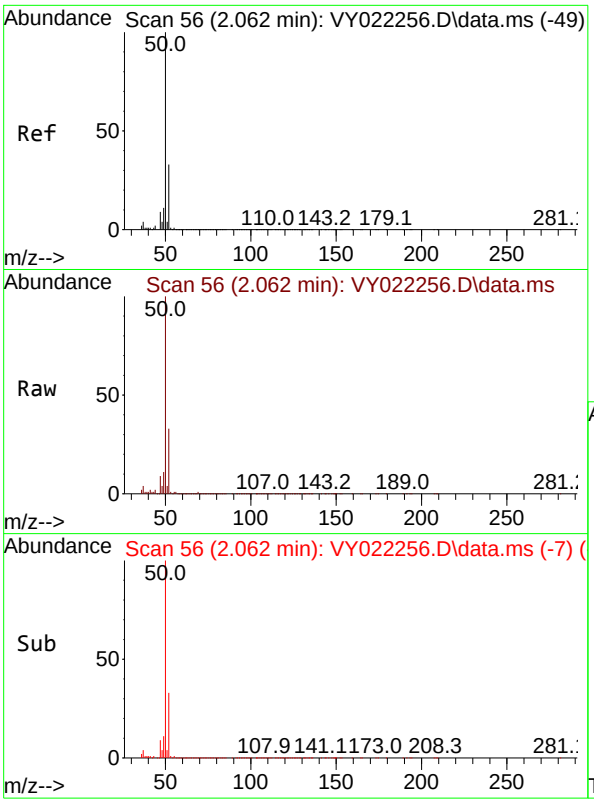


#2
Dichlorodifluoromethane
Concen: 48.608 ug/l
RT: 1.861 min Scan# 23
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 85 Resp: 135726

Ion	Ratio	Lower	Upper
85	100		
87	33.0	16.5	49.5

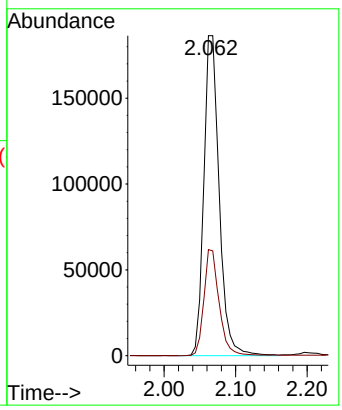




#3
Chloromethane
Concen: 47.481 ug/l
RT: 2.062 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 50 Resp: 27889

Ion	Ratio	Lower	Upper
50	100		
52	33.1	26.5	39.7



Instrument :
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ClientSampleId :
VSTDICCC050

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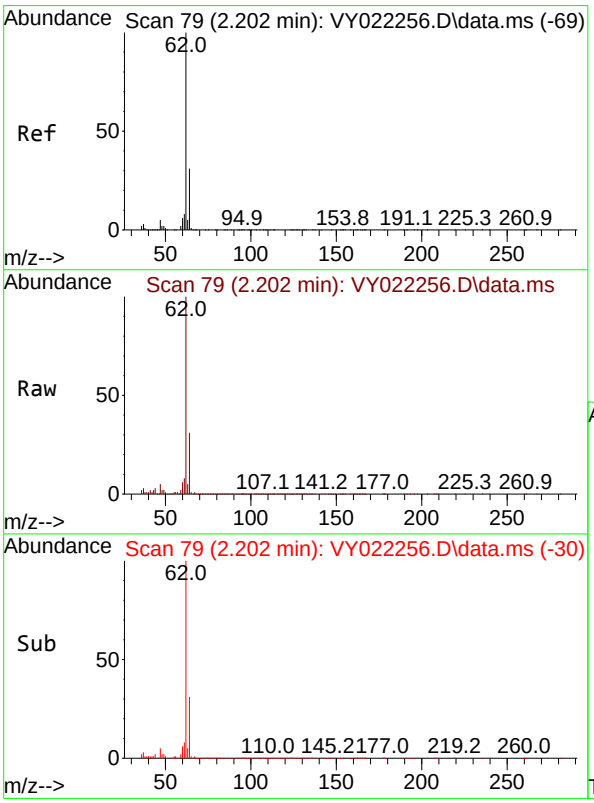
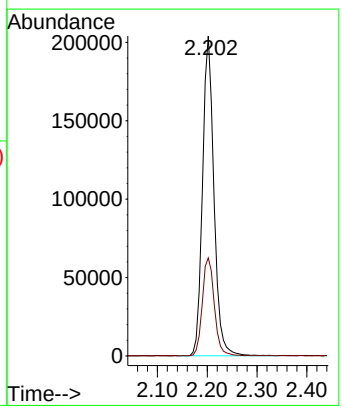
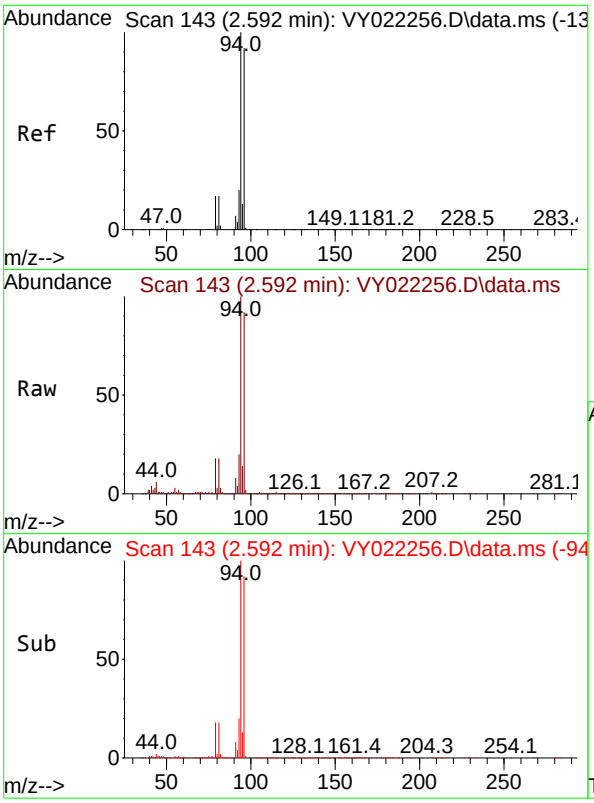


#4
Vinyl Chloride
Concen: 49.341 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 62 Resp: 323792

Ion	Ratio	Lower	Upper
62	100		
64	30.6	24.5	36.7





#5
Bromomethane
Concen: 43.941 ug/l
RT: 2.592 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 94 Resp: 23473

Ion	Ratio	Lower	Upper
94	100		
96	91.7	73.4	110.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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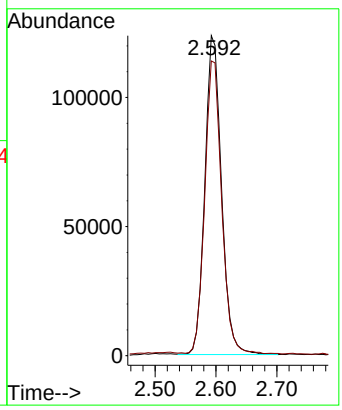
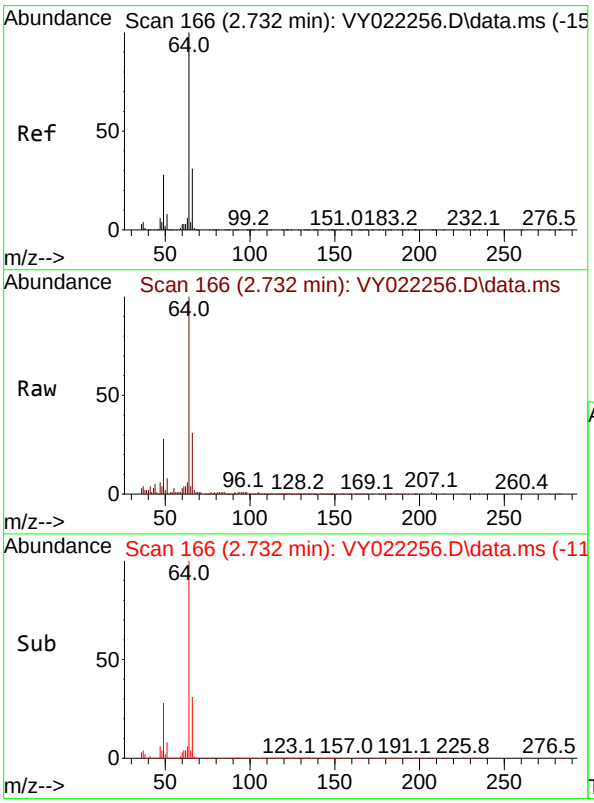
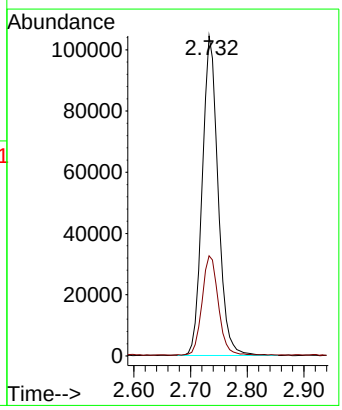


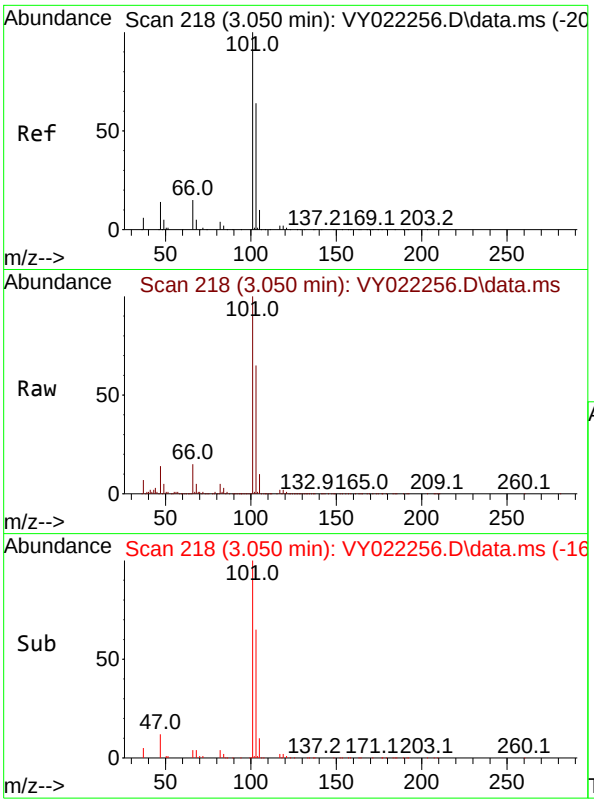


#6
Chloroethane
Concen: 49.569 ug/l
RT: 2.732 min Scan# 166
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 64 Resp: 202370

Ion	Ratio	Lower	Upper
64	100		
66	31.0	24.8	37.2

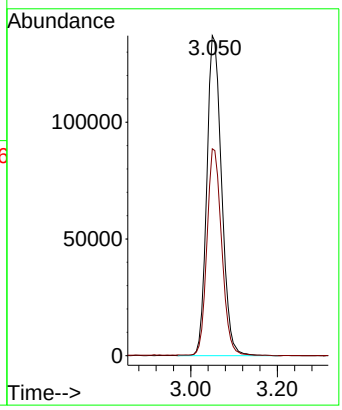




#7
Trichlorofluoromethane
Concen: 48.898 ug/l
RT: 3.050 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion:101 Resp: 32488

Ion	Ratio	Lower	Upper
101	100		
103	64.6	51.7	77.5



Instrument :
MSVOA_Y
ClientSampleId :
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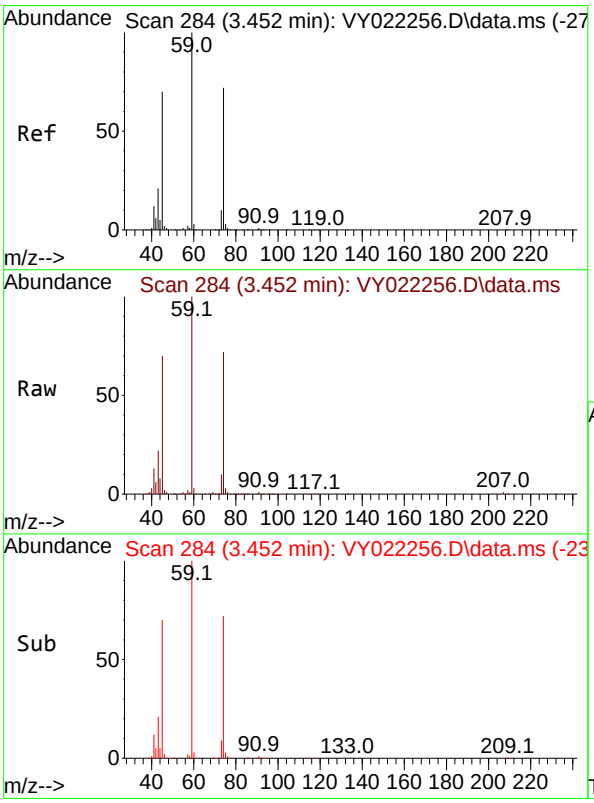
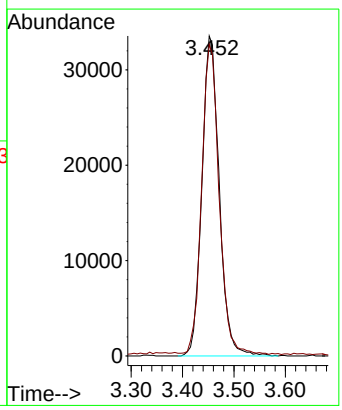
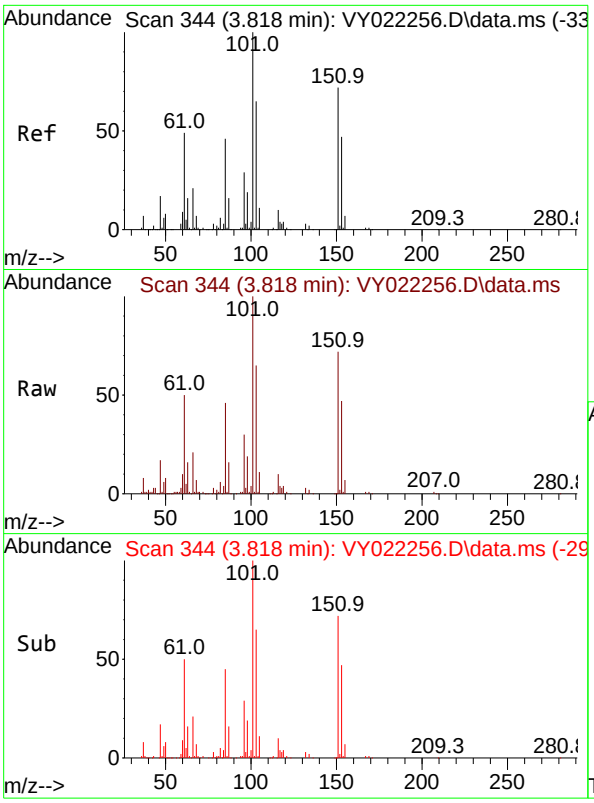


#8
Diethyl Ether
Concen: 49.338 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 74 Resp: 78670

Ion	Ratio	Lower	Upper
74	100		
45	97.2	48.6	145.8

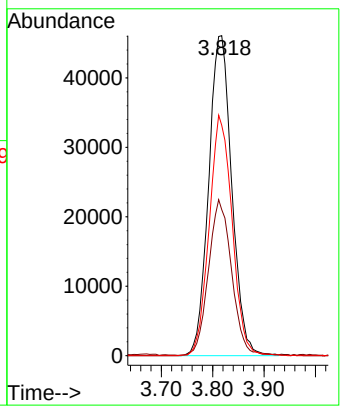




#9
1,1,2-Trichlorotrifluoroethane
Concen: 49.930 ug/l
RT: 3.818 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion:101 Resp: 14401

Ion	Ratio	Lower	Upper
101	100		
85	48.3	38.6	58.0
151	74.6	59.7	89.5



Instrument :
MSVOA_Y
ClientSampleId :
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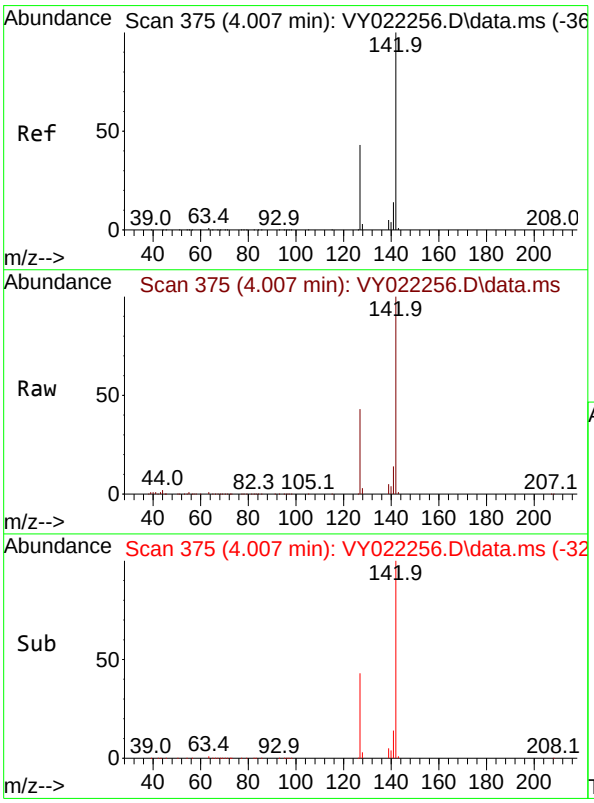
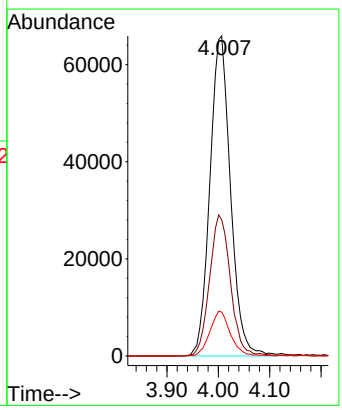
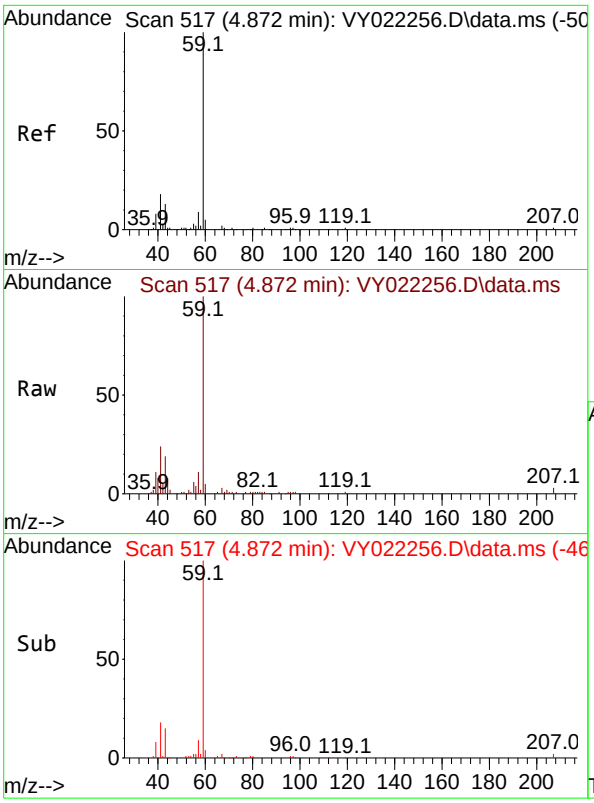


#10
Methyl Iodide
Concen: 55.091 ug/l
RT: 4.007 min Scan# 375
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion:142 Resp: 183918

Ion	Ratio	Lower	Upper
142	100		
127	44.6	35.7	53.5
141	13.9	11.1	16.7





#11
Tert butyl alcohol
Concen: 231.036 ug/l
RT: 4.872 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 59 Resp: 5159

Ion	Ratio	Lower	Upper
59	100		
57	0.0	0.0	0.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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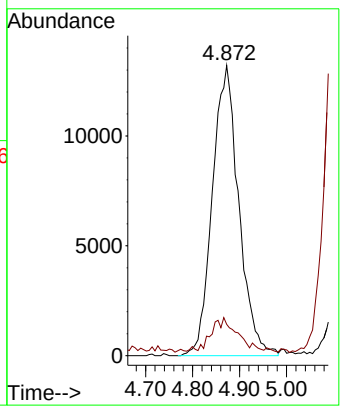
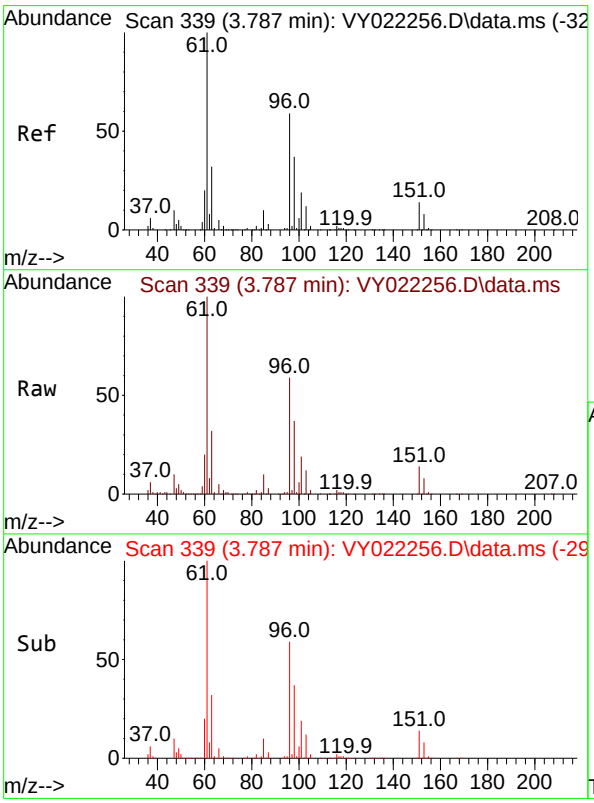
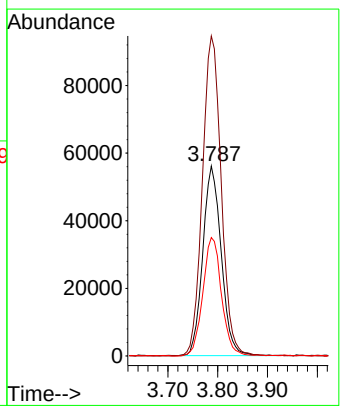


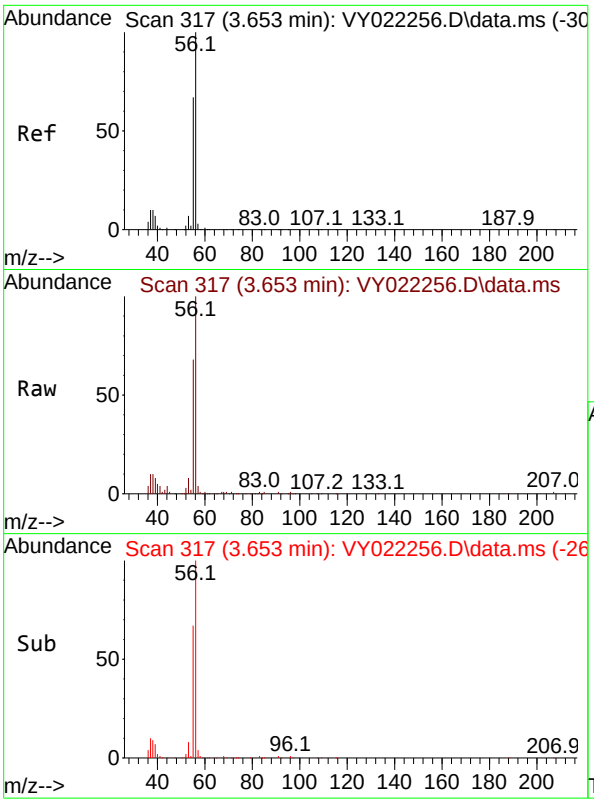


#12
1,1-Dichloroethene
Concen: 50.344 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 96 Resp: 144103

Ion	Ratio	Lower	Upper
96	100		
61	168.6	134.9	202.3
98	62.4	49.9	74.9





#13
Acrolein
Concen: 231.010 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 56 Resp: 7542

Ion	Ratio	Lower	Upper
56	100		
55	69.5	55.6	83.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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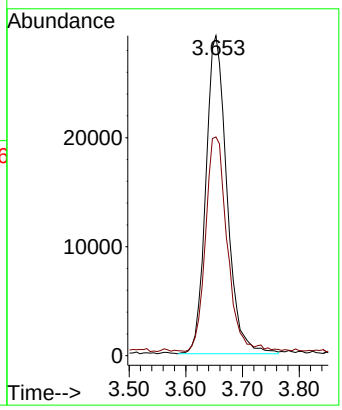
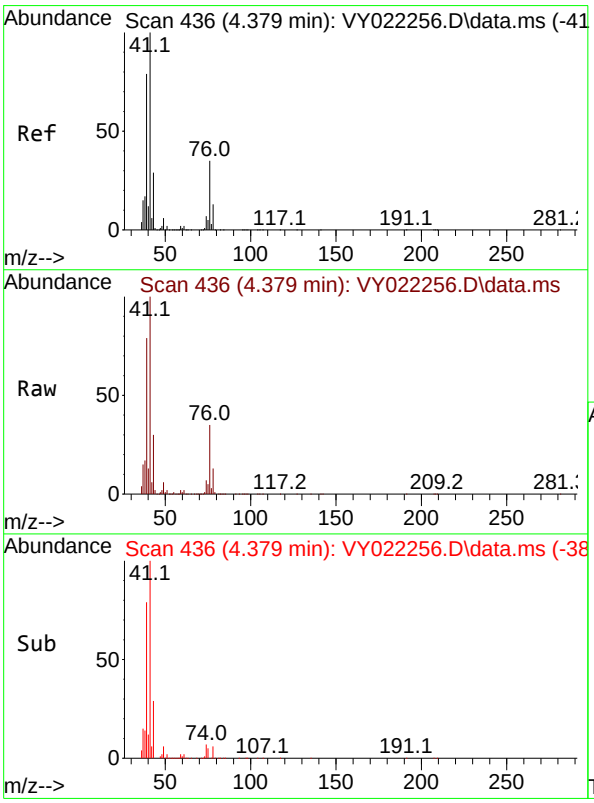
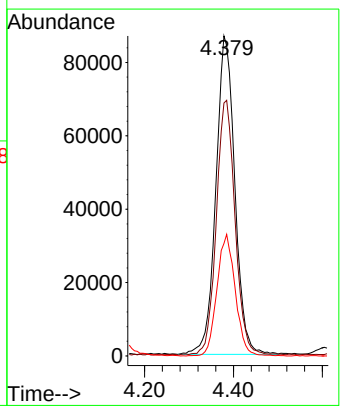


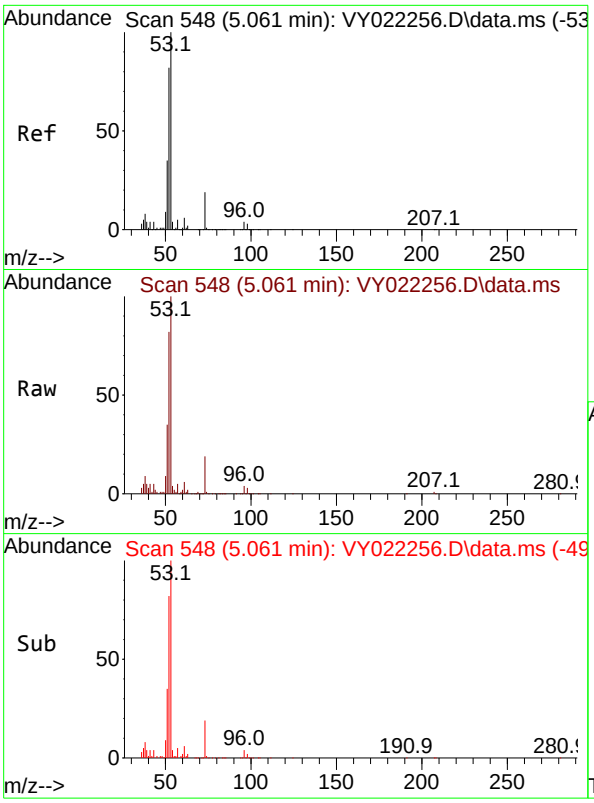


#14
Allyl chloride
Concen: 51.106 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 41 Resp: 256499

Ion	Ratio	Lower	Upper
41	100		
39	79.2	63.4	95.0
76	36.9	29.5	44.3

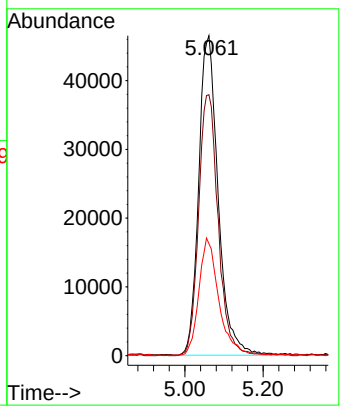




#15
Acrylonitrile
Concen: 244.283 ug/l
RT: 5.061 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 53 Resp: 16049

Ion	Ratio	Lower	Upper
53	100		
52	82.6	66.1	99.1
51	37.5	30.0	45.0



Instrument :
MSVOA_Y
ClientSampleId :
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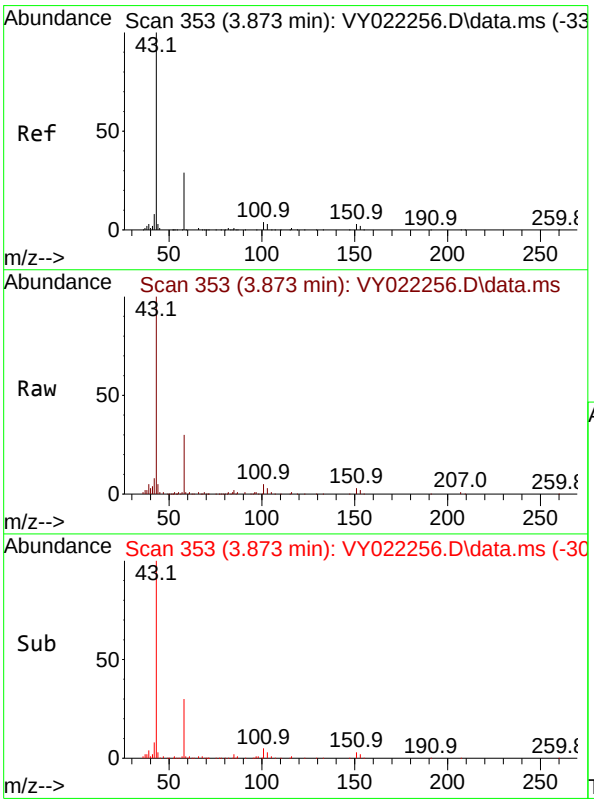
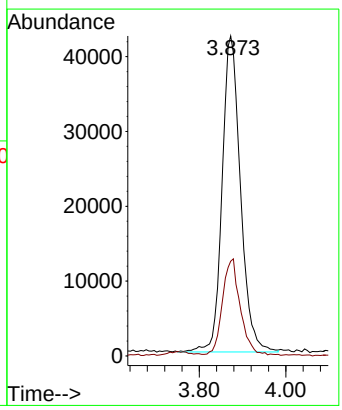
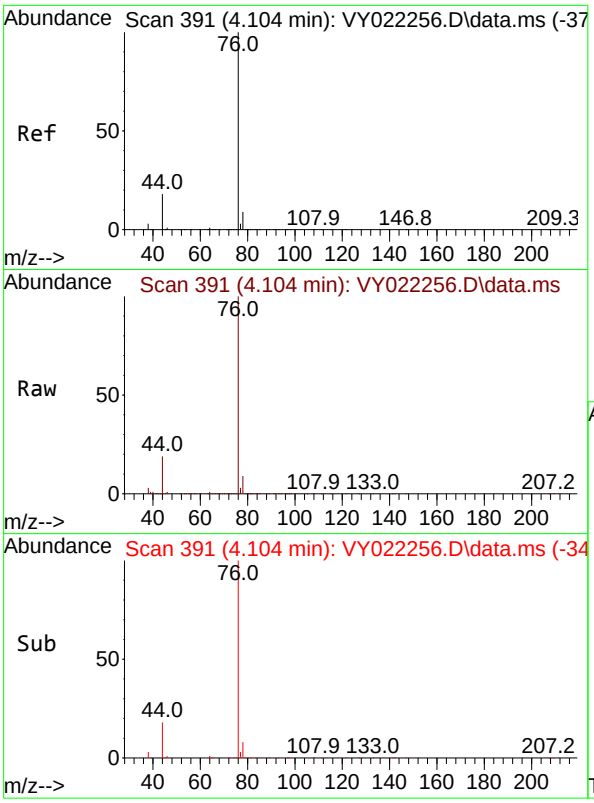


#16
Acetone
Concen: 226.888 ug/l
RT: 3.873 min Scan# 353
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 43 Resp: 124421

Ion	Ratio	Lower	Upper
43	100		
58	29.5	23.6	35.4

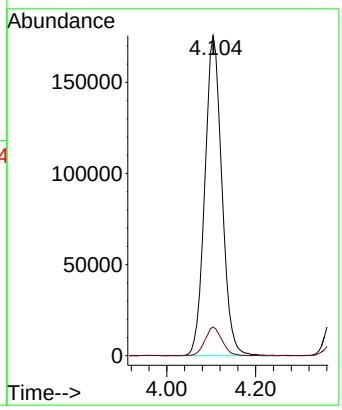




#17
Carbon Disulfide
Concen: 50.244 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 76 Resp: 46897

Ion	Ratio	Lower	Upper
76	100		
78	9.0	7.2	10.8



Instrument :
MSVOA_Y
ClientSampleId :
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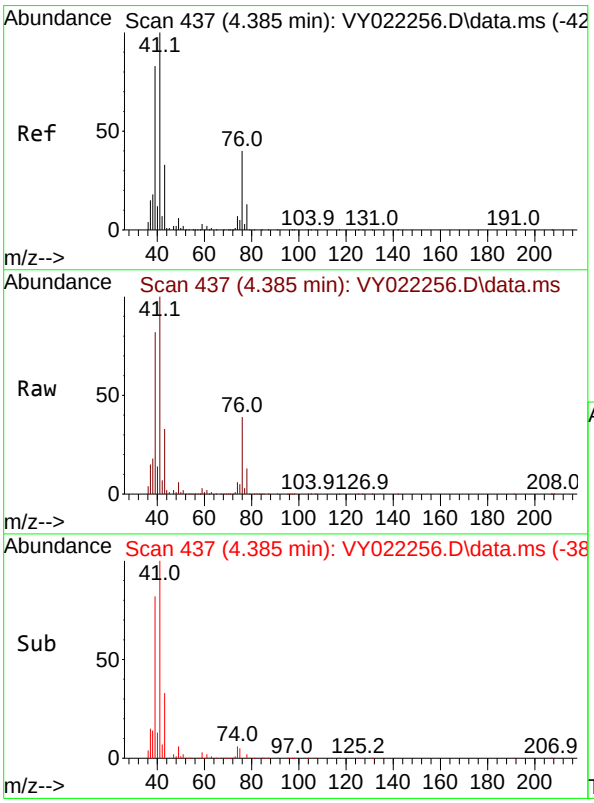
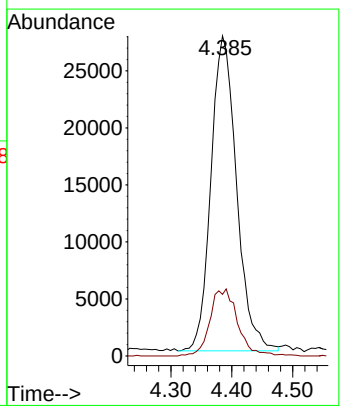
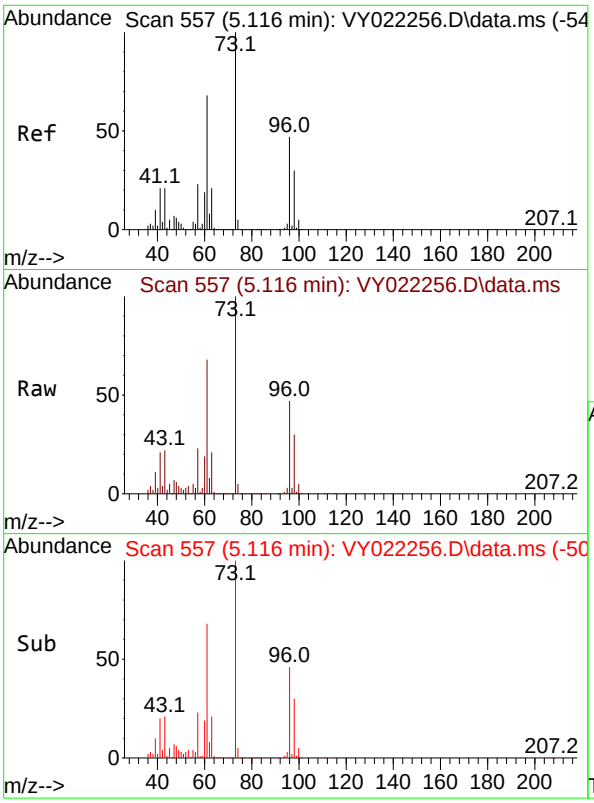


#18
Methyl Acetate
Concen: 48.436 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 43 Resp: 80820

Ion	Ratio	Lower	Upper
43	100		
74	22.8	18.2	27.4

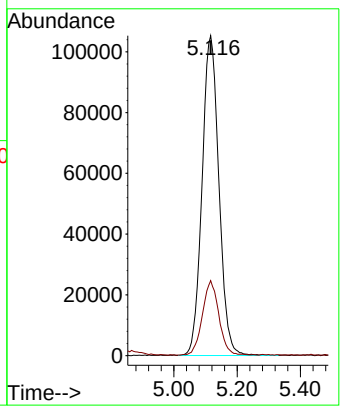




#19
Methyl tert-butyl Ether
Concen: 49.466 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 73 Resp: 39041

Ion	Ratio	Lower	Upper
73	100		
57	23.3	18.6	28.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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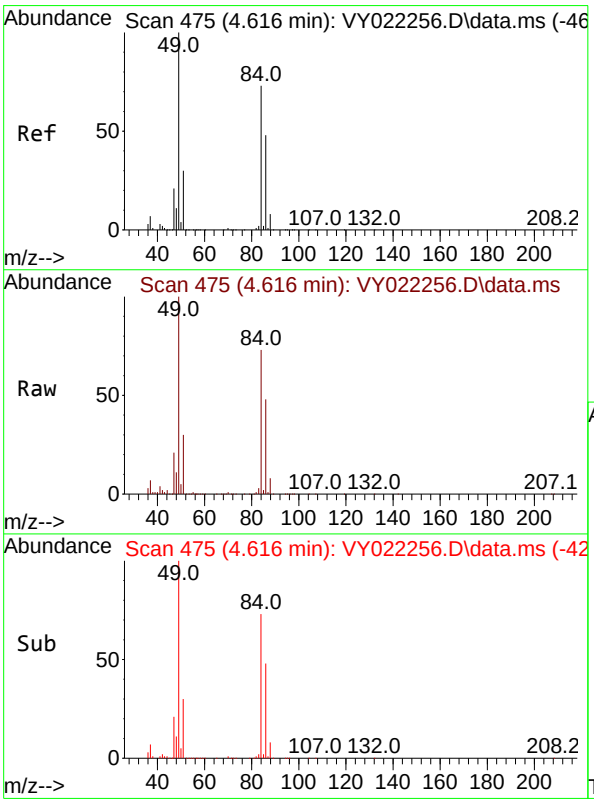
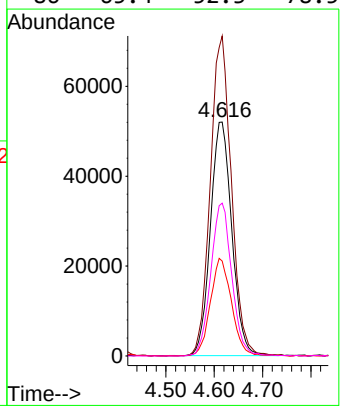
Supervised By :Semsettin Yesilyurt 05/16/2025

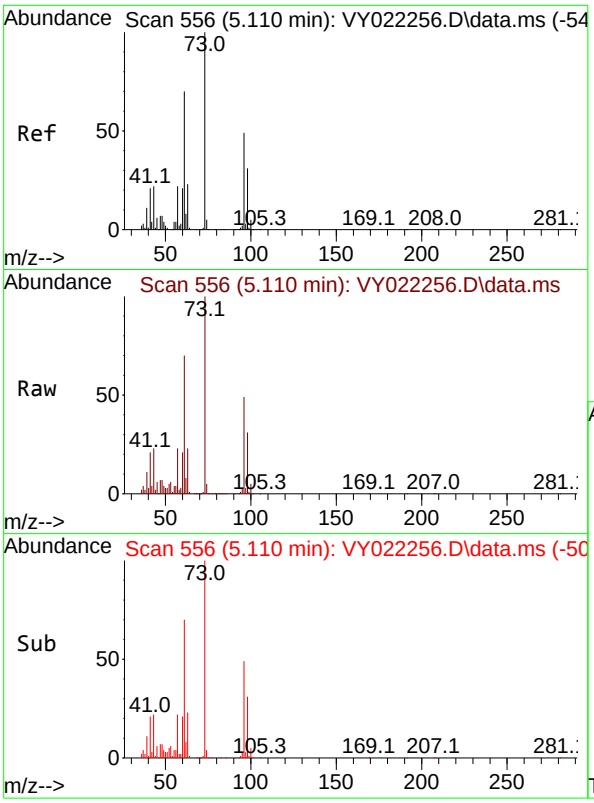


#20
Methylene Chloride
Concen: 45.087 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 84 Resp: 159764

Ion	Ratio	Lower	Upper
84	100		
49	137.0	109.6	164.4
51	40.5	32.4	48.6
86	65.4	52.3	78.5

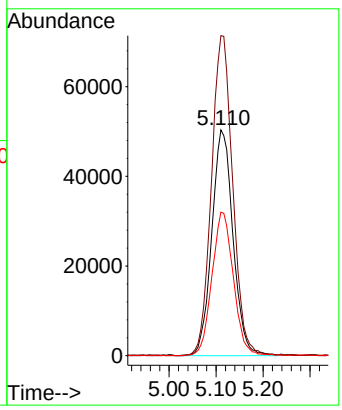




#21
trans-1,2-Dichloroethene
Concen: 50.181 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 96 Resp: 15854

Ion	Ratio	Lower	Upper
96	100		
61	141.7	113.4	170.0
98	63.6	50.9	76.3



Instrument :
MSVOA_Y
ClientSampleId :
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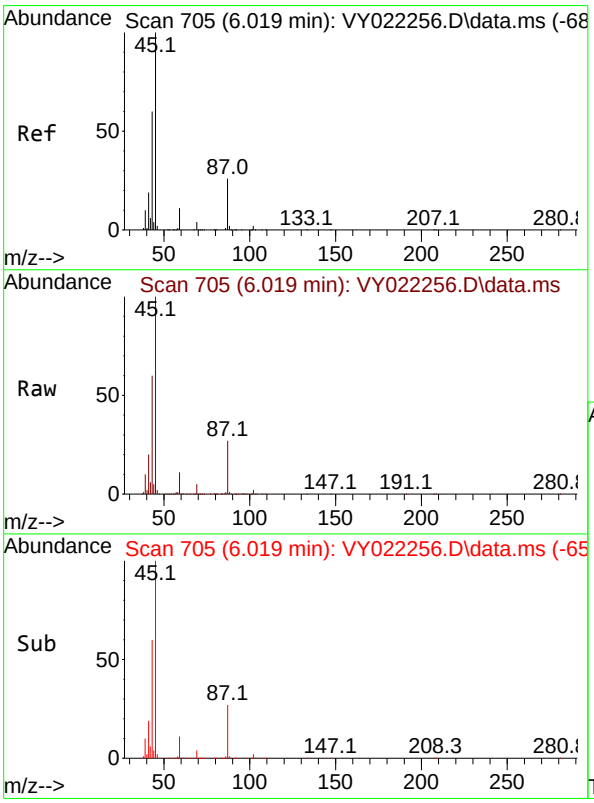
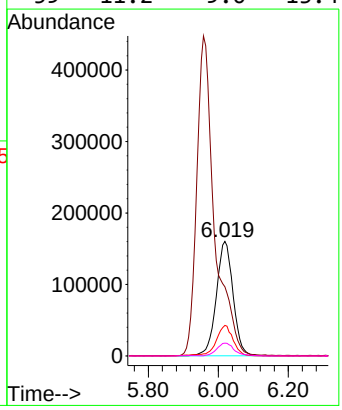
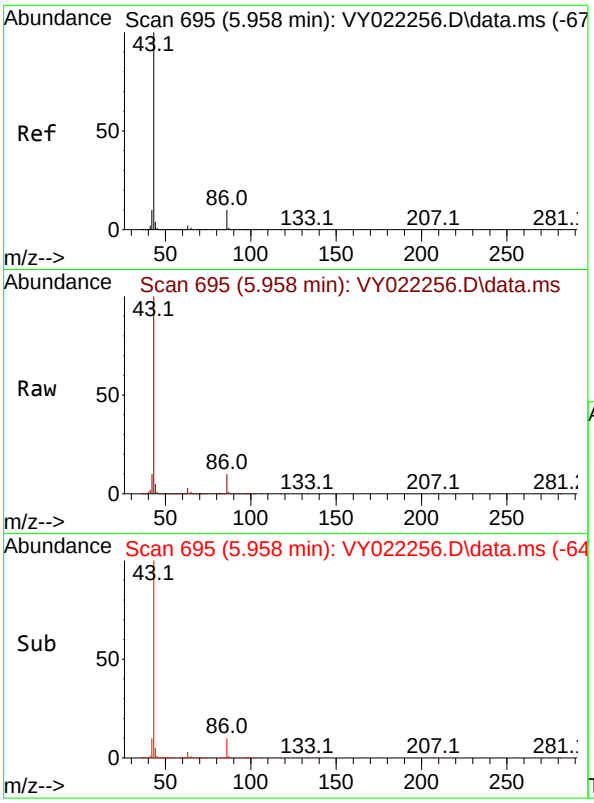


#22
Diisopropyl ether
Concen: 50.152 ug/l
RT: 6.019 min Scan# 705
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 45 Resp: 531560

Ion	Ratio	Lower	Upper
45	100		
43	60.2	48.2	72.2
87	26.7	21.4	32.0
59	11.2	9.0	13.4

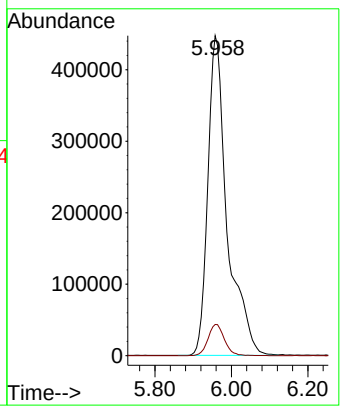




#23
Vinyl Acetate
Concen: 245.223 ug/l
RT: 5.958 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 43 Resp: 157021

Ion	Ratio	Lower	Upper
43	100		
86	9.8	7.8	11.8



Instrument :
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ClientSampleId :
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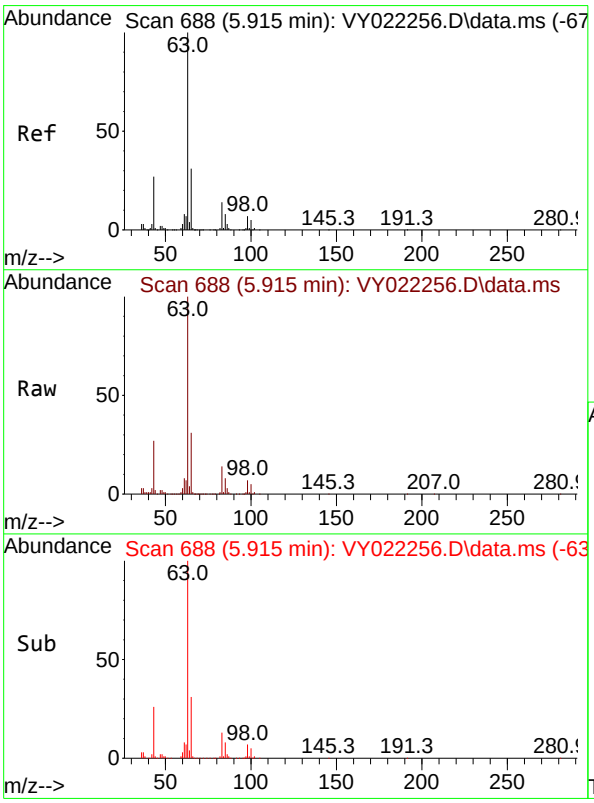
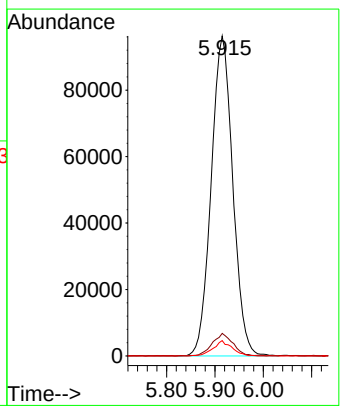
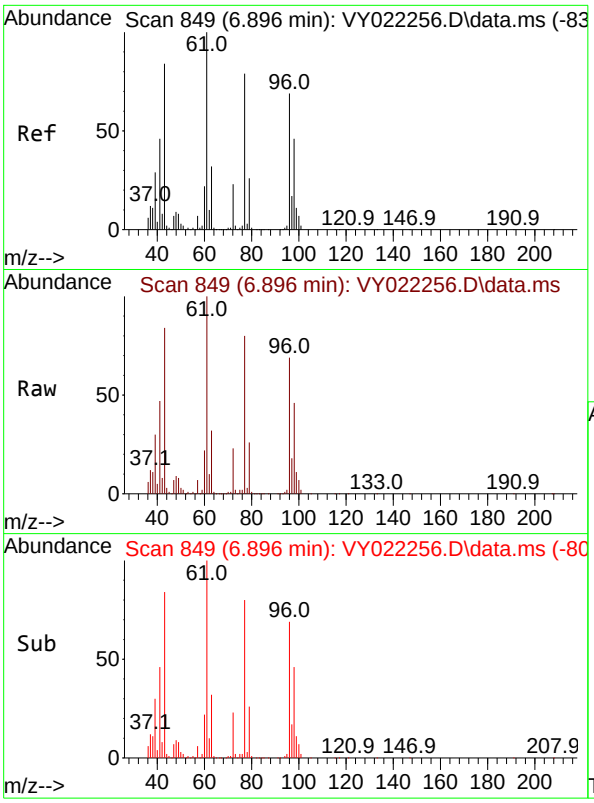


#24
1,1-Dichloroethane
Concen: 50.465 ug/l
RT: 5.915 min Scan# 688
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 63 Resp: 298823

Ion	Ratio	Lower	Upper
63	100		
98	7.0	3.5	10.5
100	4.8	2.4	7.2





#25
2-Butanone
Concen: 235.291 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 43 Resp: 21582

Ion	Ratio	Lower	Upper
43	100		
72	27.6	22.1	33.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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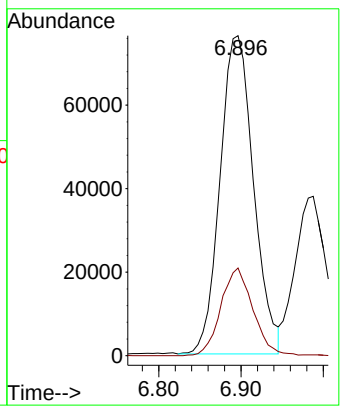
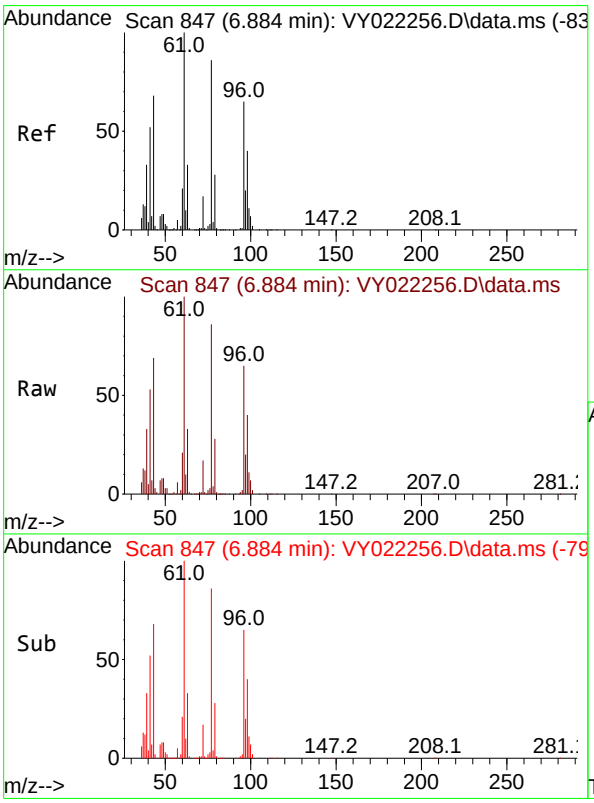
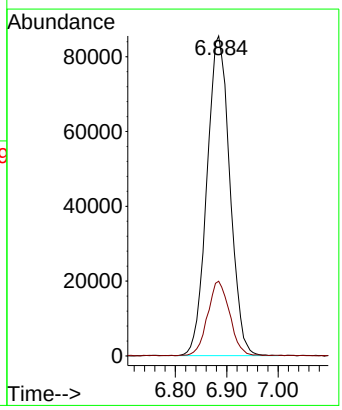


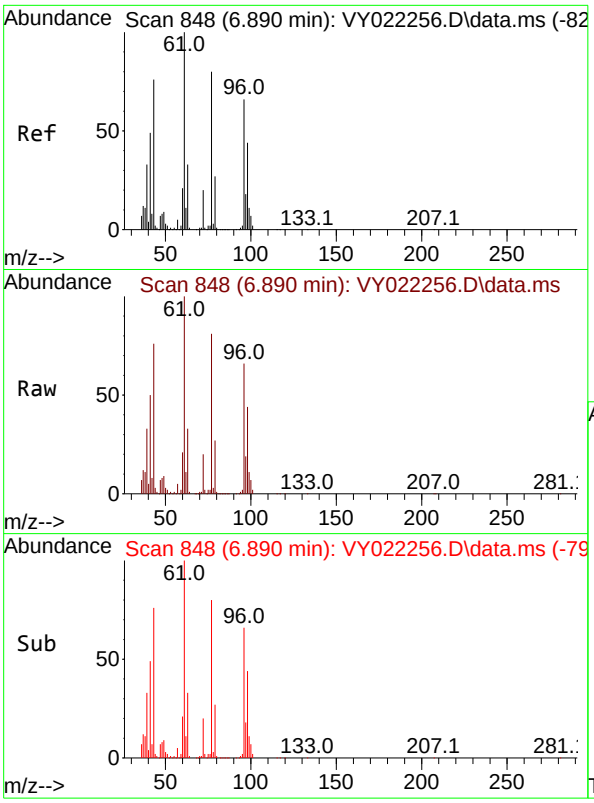


#26
2,2-Dichloropropane
Concen: 50.153 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 77 Resp: 264141

Ion	Ratio	Lower	Upper
77	100		
97	22.3	11.2	33.5

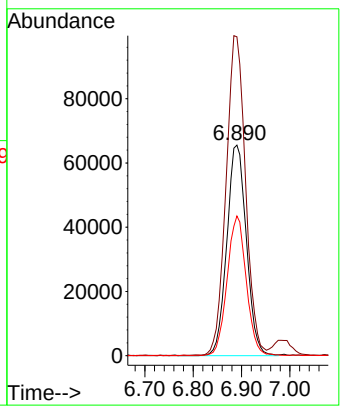




#27
cis-1,2-Dichloroethene
Concen: 50.698 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 96 Resp: 18484

Ion	Ratio	Lower	Upper
96	100		
61	151.3	0.0	302.6
98	64.4	0.0	128.8



Instrument :
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ClientSampleId :
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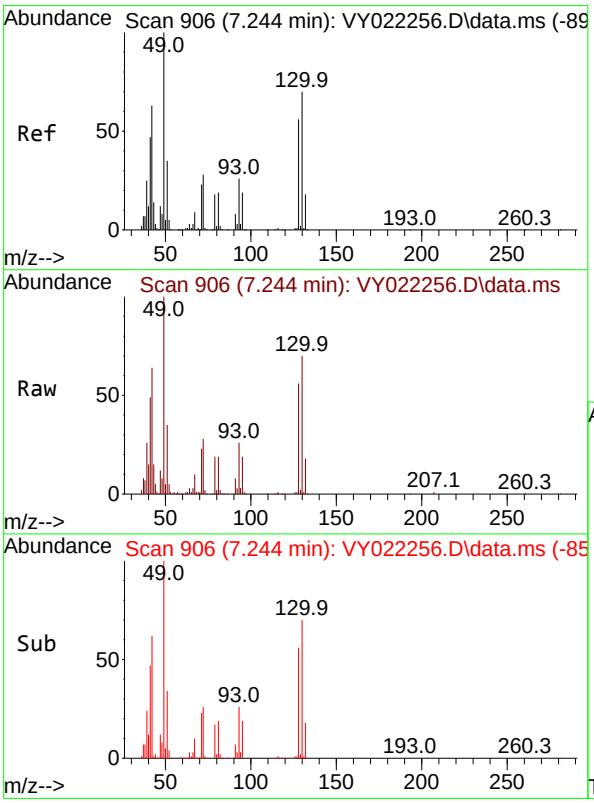
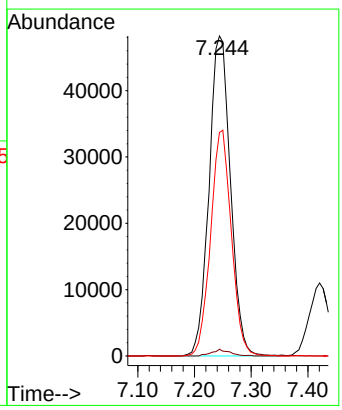
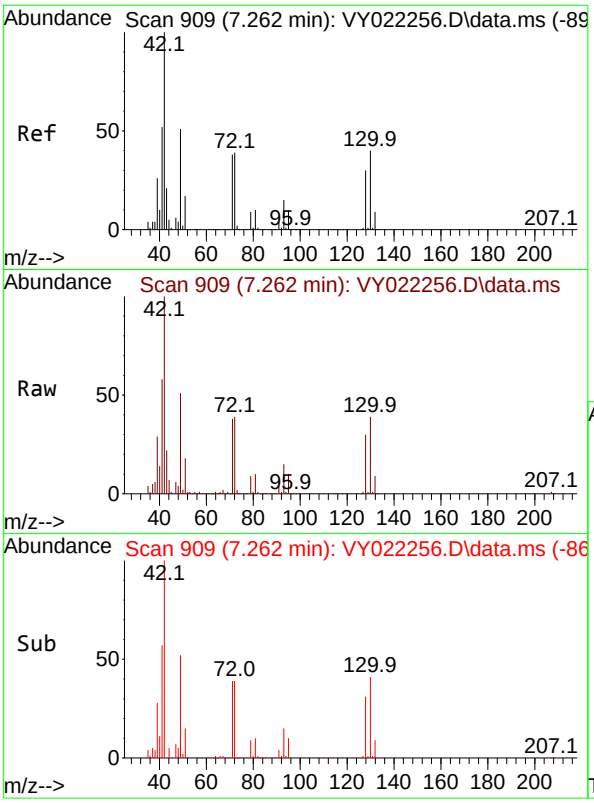


#28
Bromochloromethane
Concen: 50.100 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 49 Resp: 126541

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	3.6
130	68.4	54.7	82.1

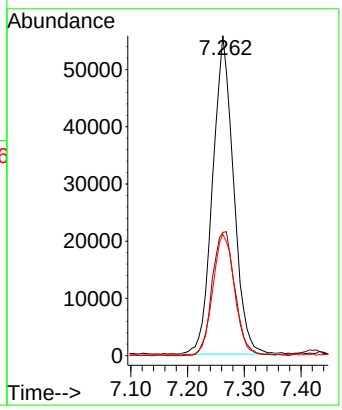




#29
Tetrahydrofuran
Concen: 241.931 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 42 Resp: 14277

Ion	Ratio	Lower	Upper
42	100		
72	42.2	33.8	50.6
71	39.4	31.5	47.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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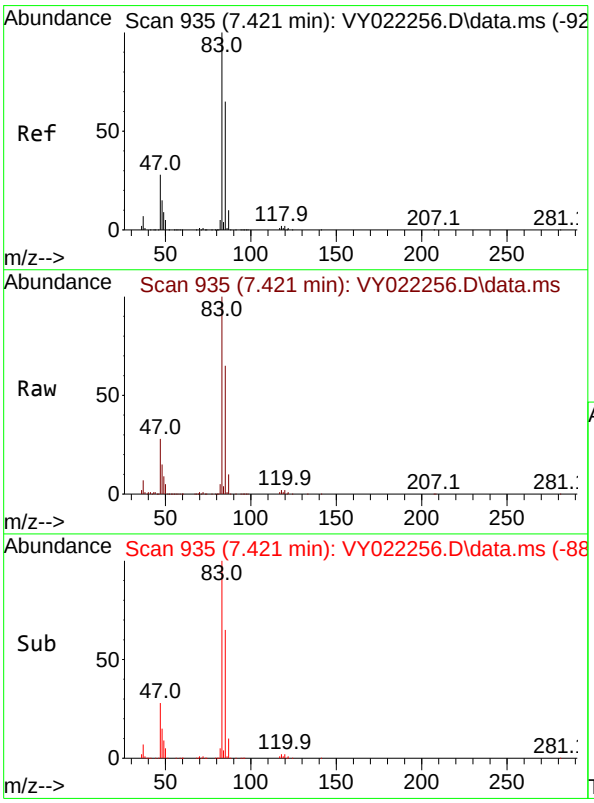
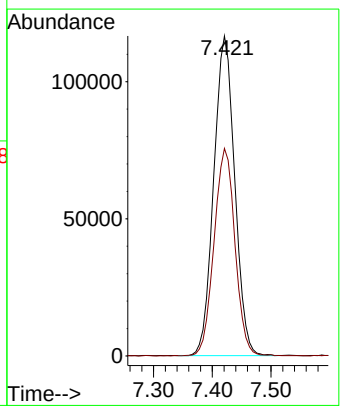
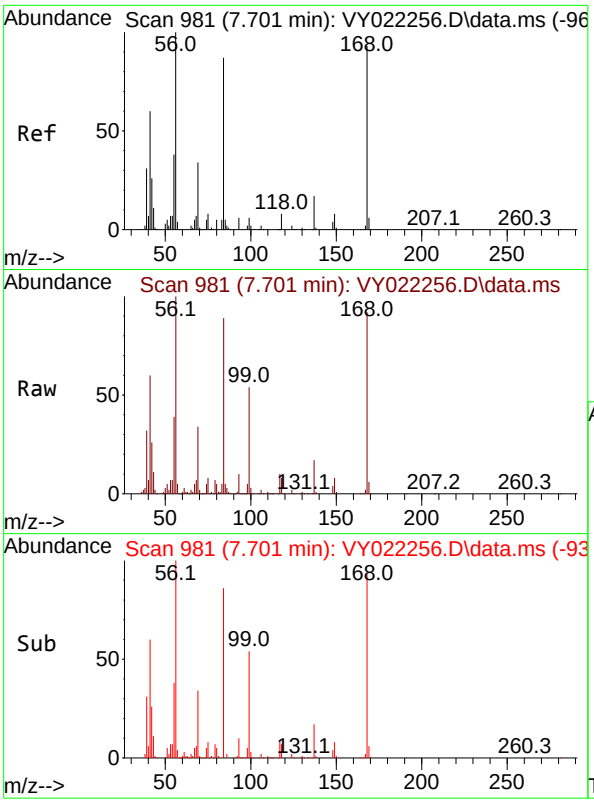


#30
Chloroform
Concen: 50.831 ug/l
RT: 7.421 min Scan# 935
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 83 Resp: 288708

Ion	Ratio	Lower	Upper
83	100		
85	64.8	51.8	77.8

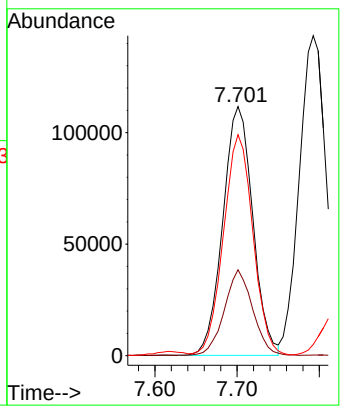




#31
Cyclohexane
Concen: 47.728 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 56 Resp: 28237

Ion	Ratio	Lower	Upper
56	100		
69	34.3	27.4	41.2
84	87.5	70.0	105.0



Instrument :
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ClientSampleId :
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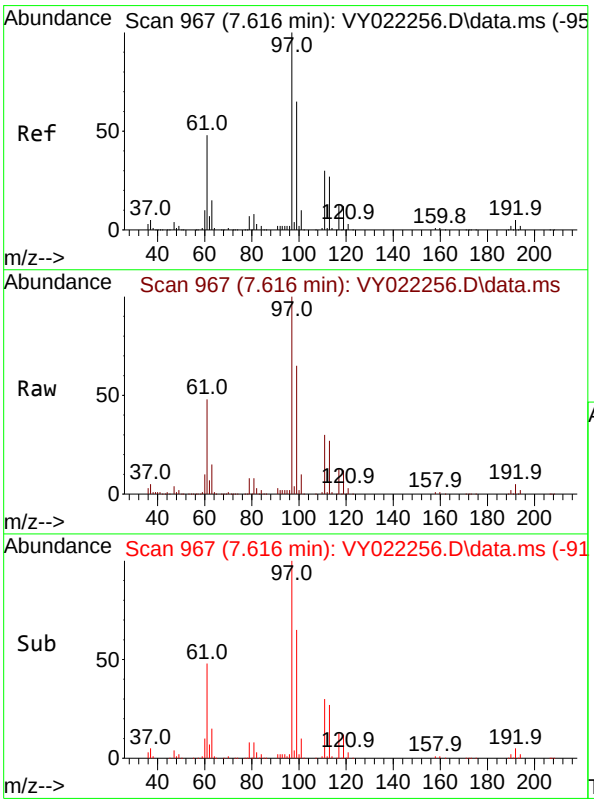
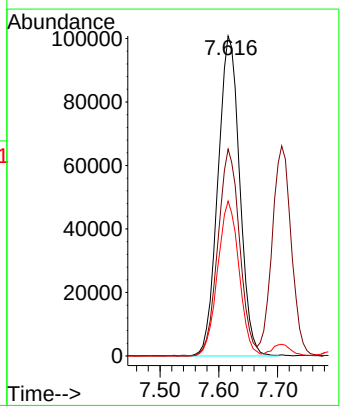
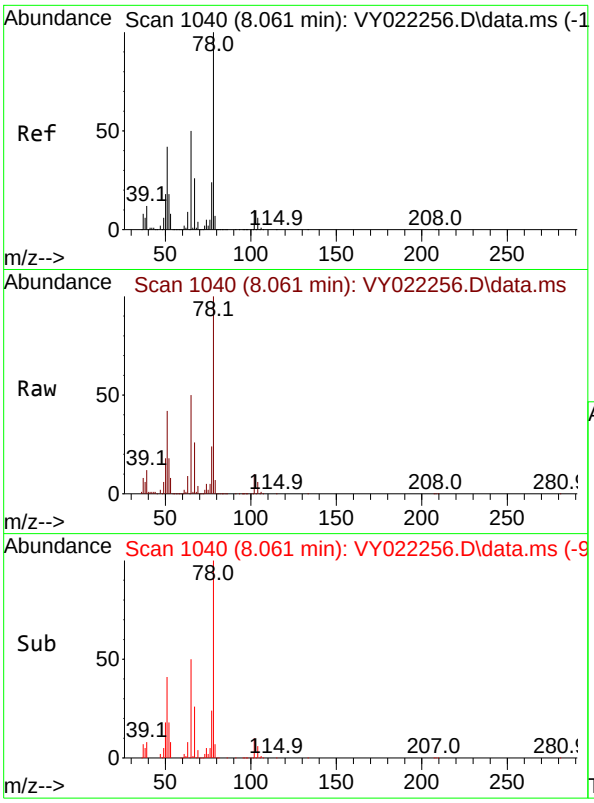


#32
1,1,1-Trichloroethane
Concen: 49.777 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 97 Resp: 259382

Ion	Ratio	Lower	Upper
97	100		
99	64.2	51.4	77.0
61	47.6	38.1	57.1

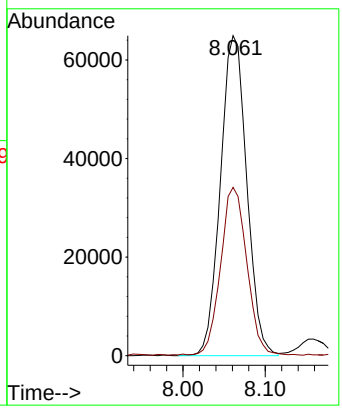




#33
1,2-Dichloroethane-d4
Concen: 49.481 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 65 Resp: 14471

Ion	Ratio	Lower	Upper
65	100		
67	52.3	0.0	104.6



Instrument :
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ClientSampleId :
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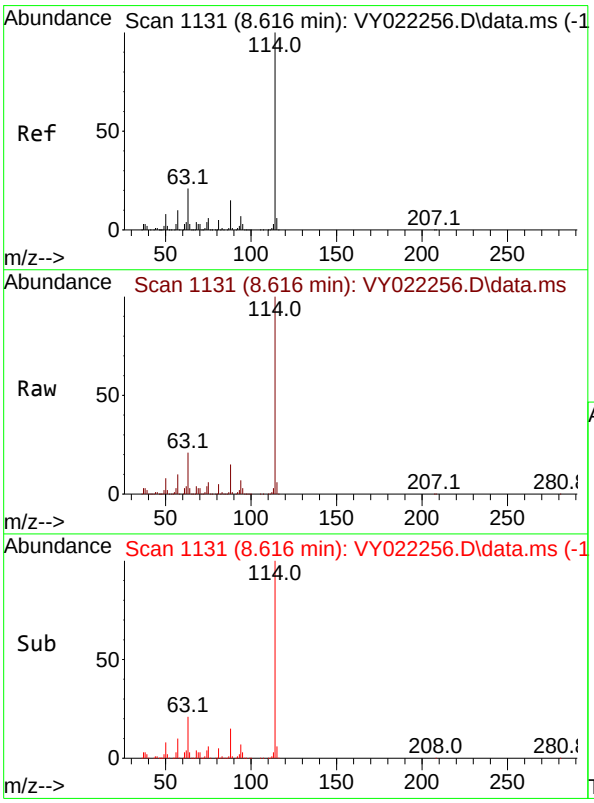
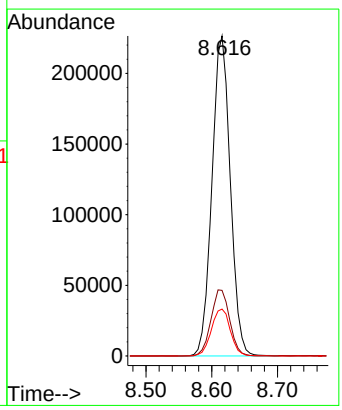
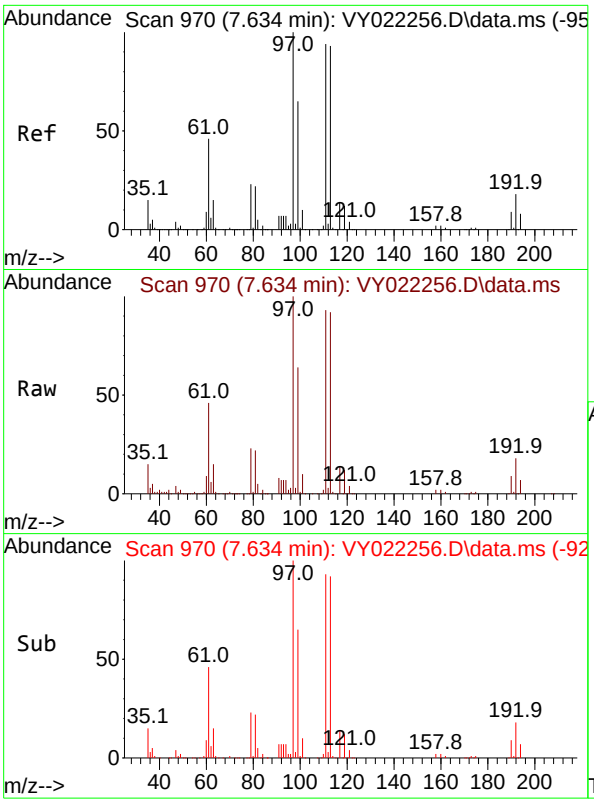


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion:114 Resp: 439323

Ion	Ratio	Lower	Upper
114	100		
63	20.5	0.0	41.0
88	14.7	0.0	29.4

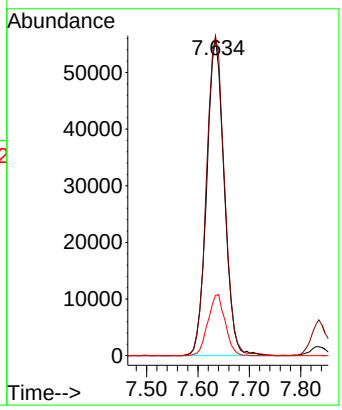




#35
Dibromofluoromethane
Concen: 50.495 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion:113 Resp: 13240

Ion	Ratio	Lower	Upper
113	100		
111	103.2	82.6	123.8
192	19.0	15.2	22.8



Instrument :
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ClientSampleId :
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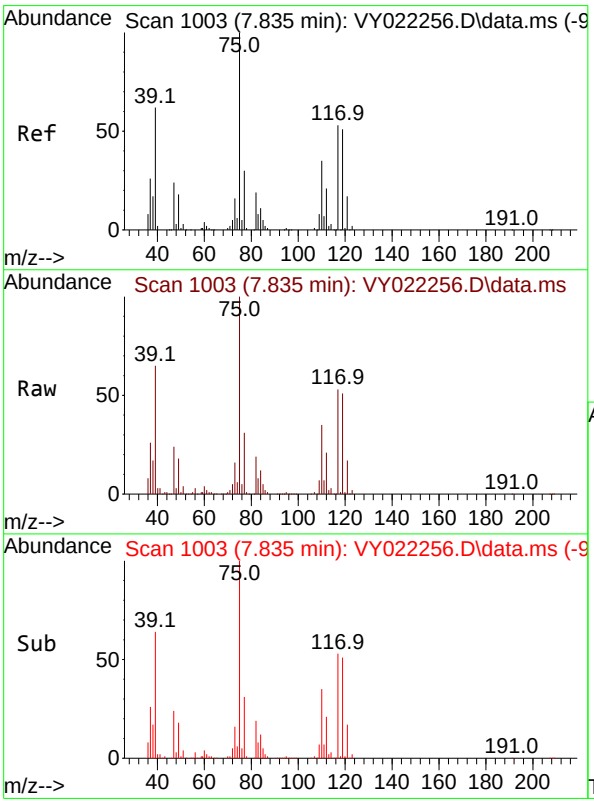
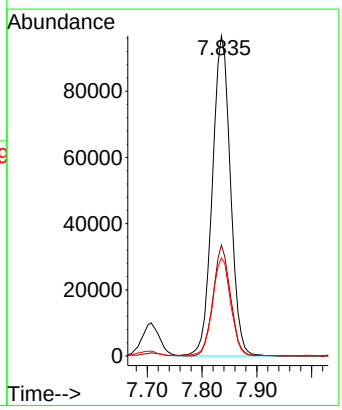
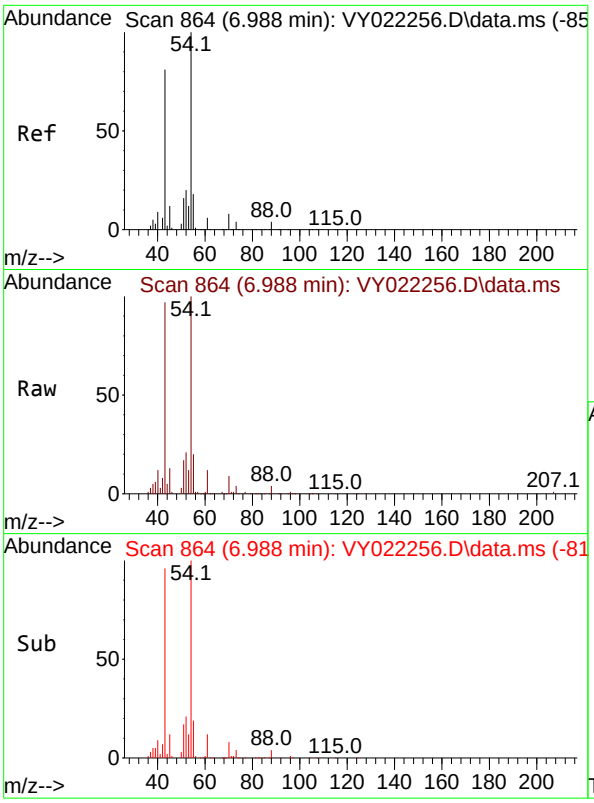


#36
1,1-Dichloropropene
Concen: 51.388 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 75 Resp: 221943

Ion	Ratio	Lower	Upper
75	100		
110	33.2	16.6	49.8
77	30.8	24.6	37.0

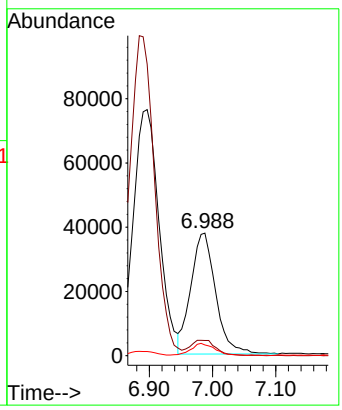




#37
Ethyl Acetate
Concen: 49.529 ug/l
RT: 6.988 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 43 Resp: 10292

Ion	Ratio	Lower	Upper
43	100		
61	12.7	10.2	15.2
70	9.5	7.6	11.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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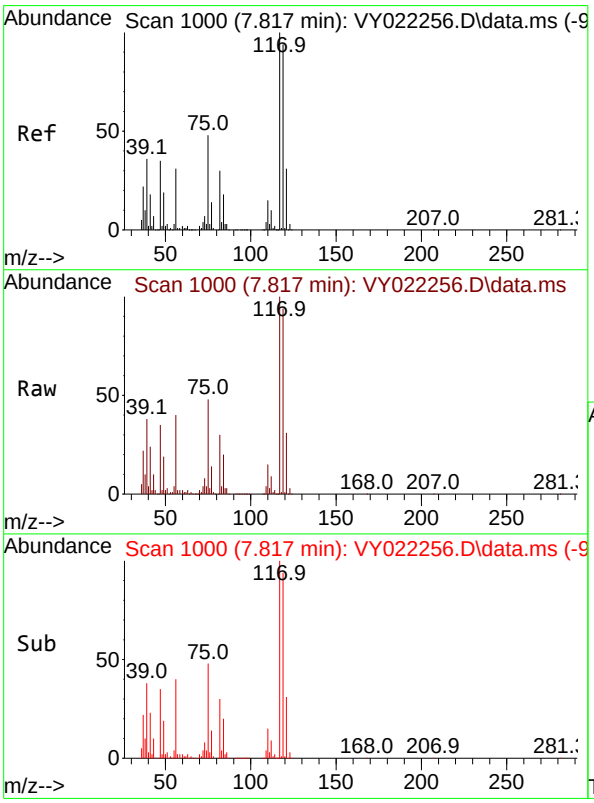
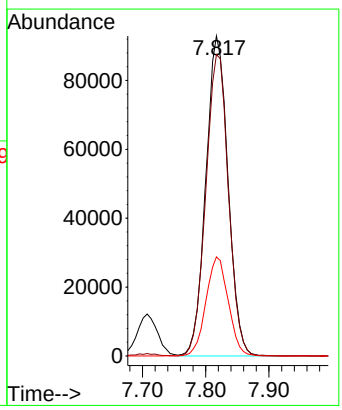
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

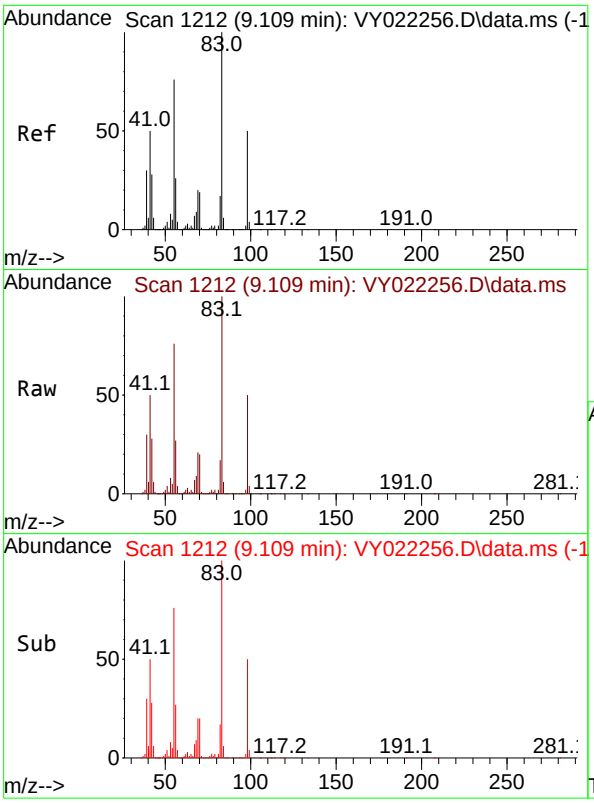


#38
Carbon Tetrachloride
Concen: 50.754 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion:117 Resp: 226903

Ion	Ratio	Lower	Upper
117	100		
119	94.1	75.3	112.9
121	30.9	24.7	37.1

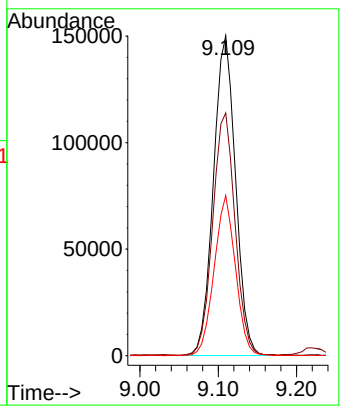




#39
Methylcyclohexane
Concen: 50.726 ug/l
RT: 9.109 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 83 Resp: 29433

Ion	Ratio	Lower	Upper
83	100		
55	75.7	60.6	90.8
98	50.0	40.0	60.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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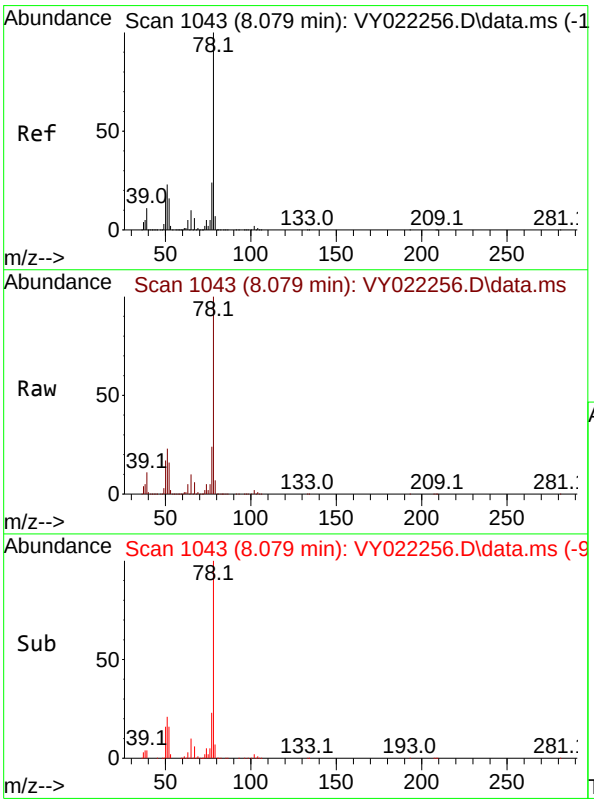
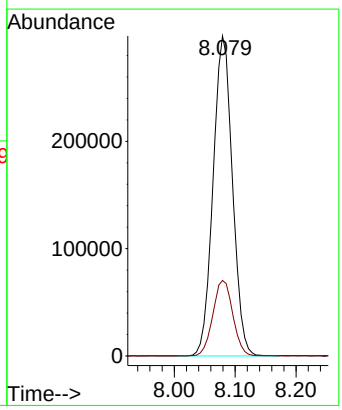
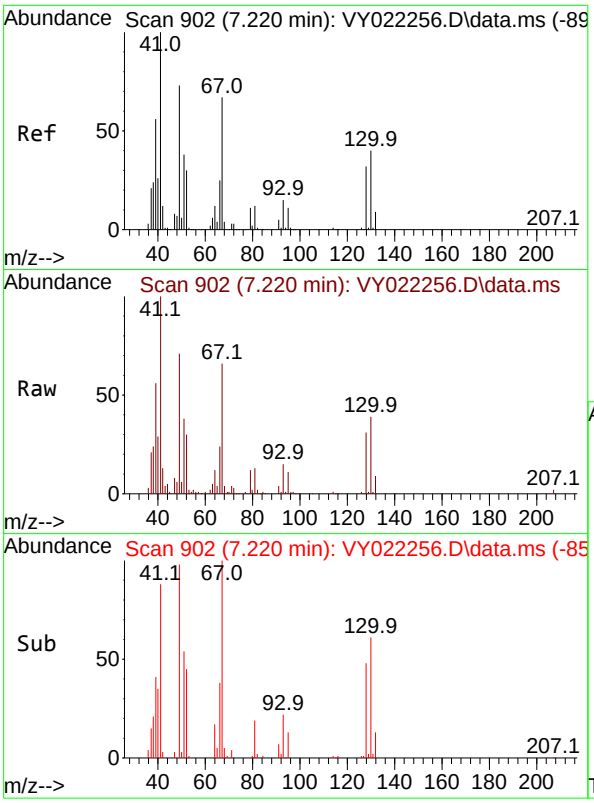


#40
Benzene
Concen: 51.442 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 78 Resp: 658644

Ion	Ratio	Lower	Upper
78	100		
77	23.6	18.9	28.3

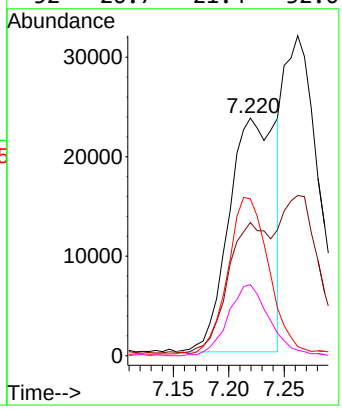




#41
Methacrylonitrile
Concen: 45.691 ug/l m
RT: 7.220 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 41 Resp: 6947

Ion	Ratio	Lower	Upper
41	100		
39	48.8	39.1	58.7
67	58.7	47.1	70.7
52	26.7	21.4	32.0



Instrument :
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ClientSampleId :
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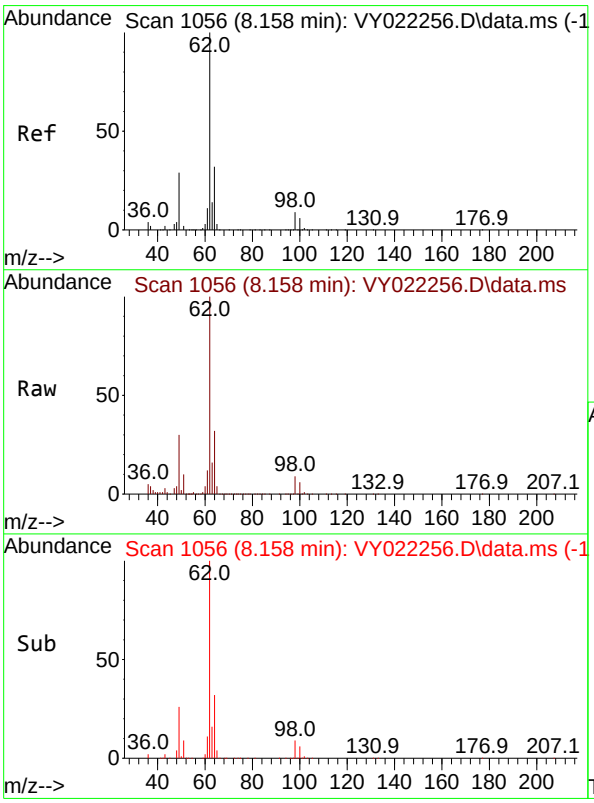
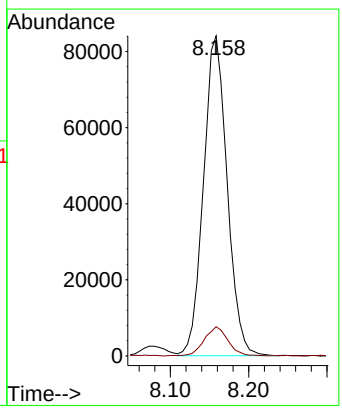
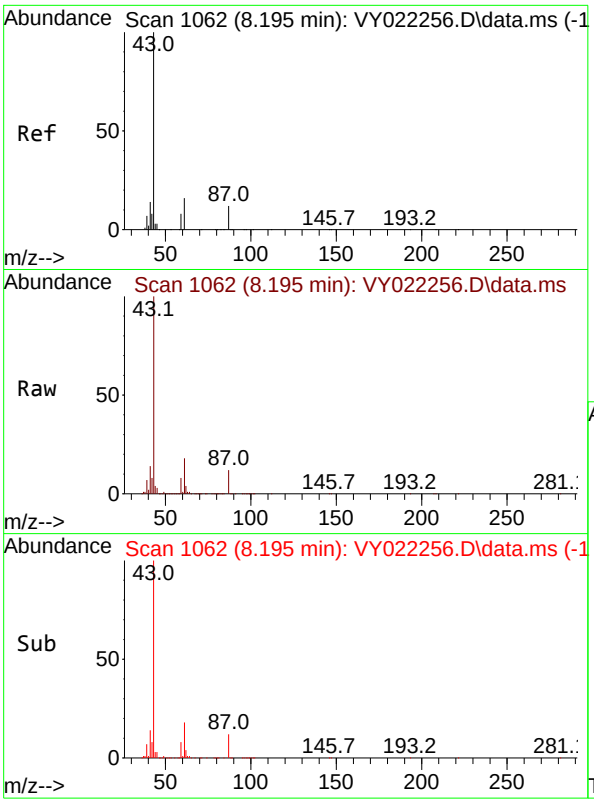


#42
1,2-Dichloroethane
Concen: 50.954 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 62 Resp: 176425

Ion	Ratio	Lower	Upper
62	100		
98	9.2	0.0	18.4





#43
Isopropyl Acetate
Concen: 49.785 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 43 Resp: 22562

Ion	Ratio	Lower	Upper
43	100		
61	18.9	15.1	22.7
87	12.1	9.7	14.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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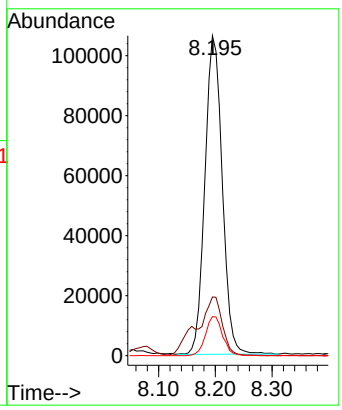
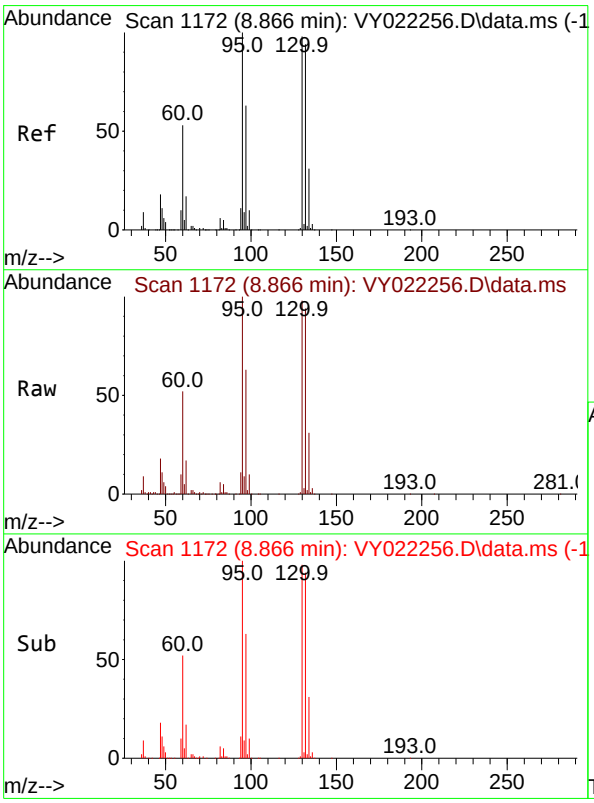
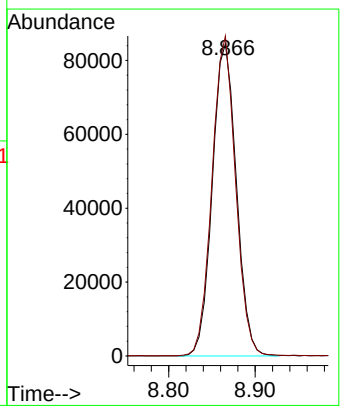


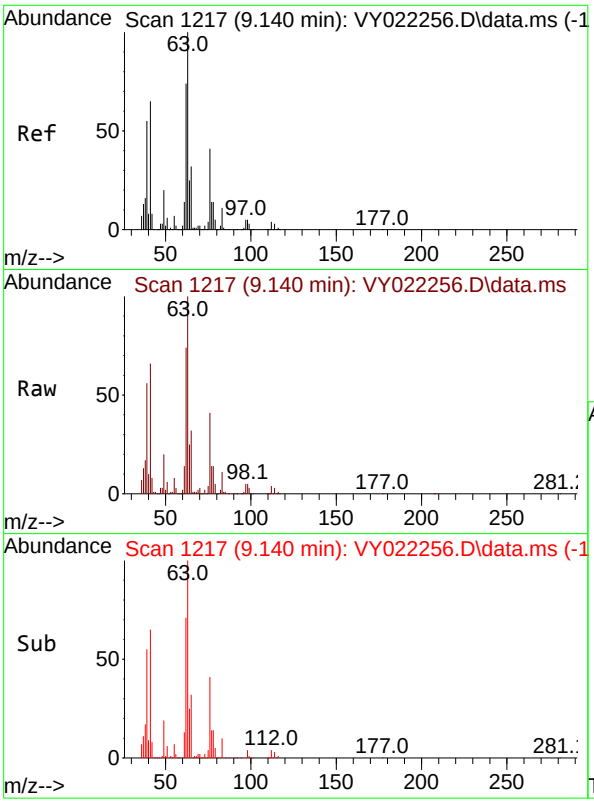


#44
Trichloroethene
Concen: 51.138 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion:130 Resp: 162802

Ion	Ratio	Lower	Upper
130	100		
95	102.4	0.0	204.8

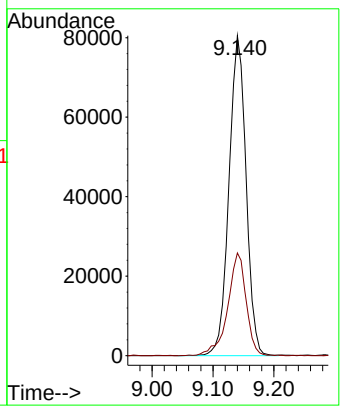




#45
1,2-Dichloropropane
Concen: 50.819 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 63 Resp: 15687

Ion	Ratio	Lower	Upper
63	100		
65	32.1	25.7	38.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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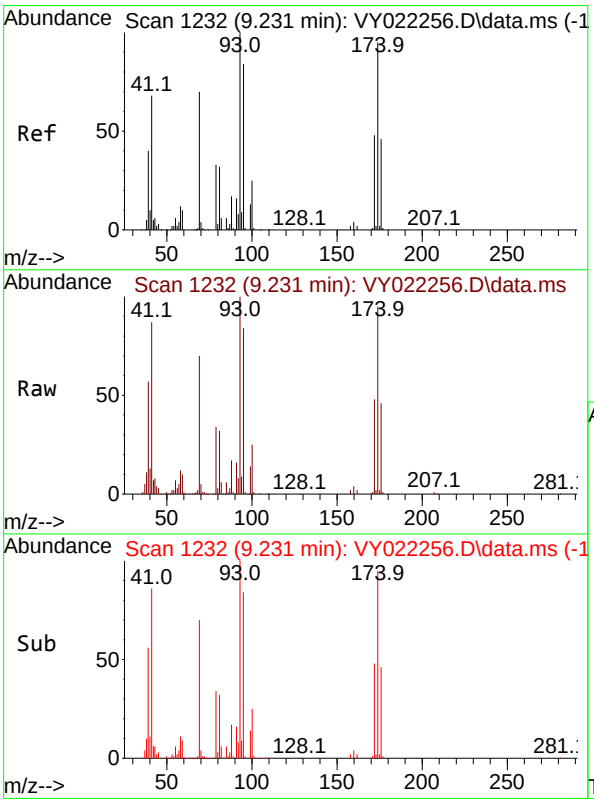
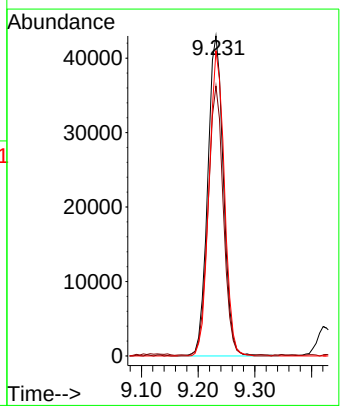
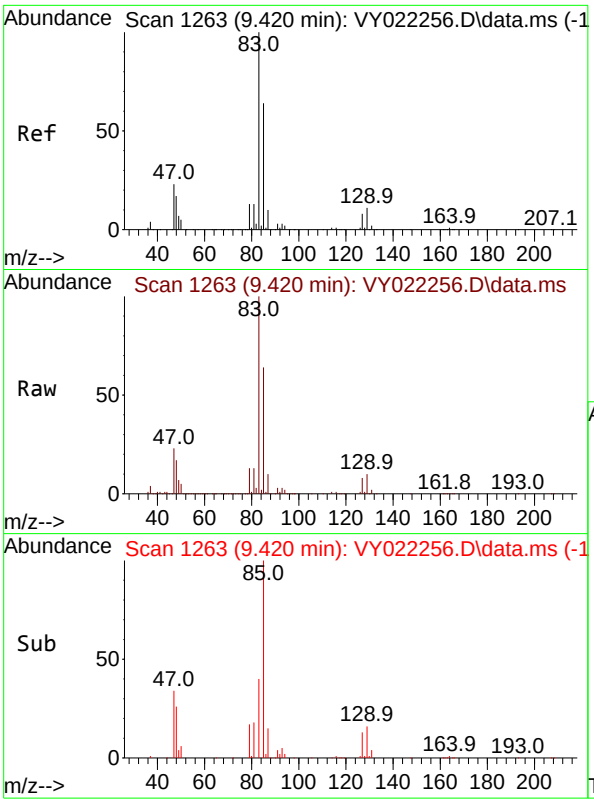


#46
Dibromomethane
Concen: 49.849 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 93 Resp: 82994

Ion	Ratio	Lower	Upper
93	100		
95	81.5	65.2	97.8
174	92.9	74.3	111.5

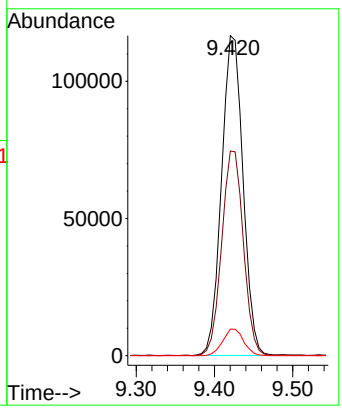




#47
Bromodichloromethane
Concen: 51.435 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 83 Resp: 22215

Ion	Ratio	Lower	Upper
83	100		
85	63.9	51.1	76.7
127	8.3	6.6	10.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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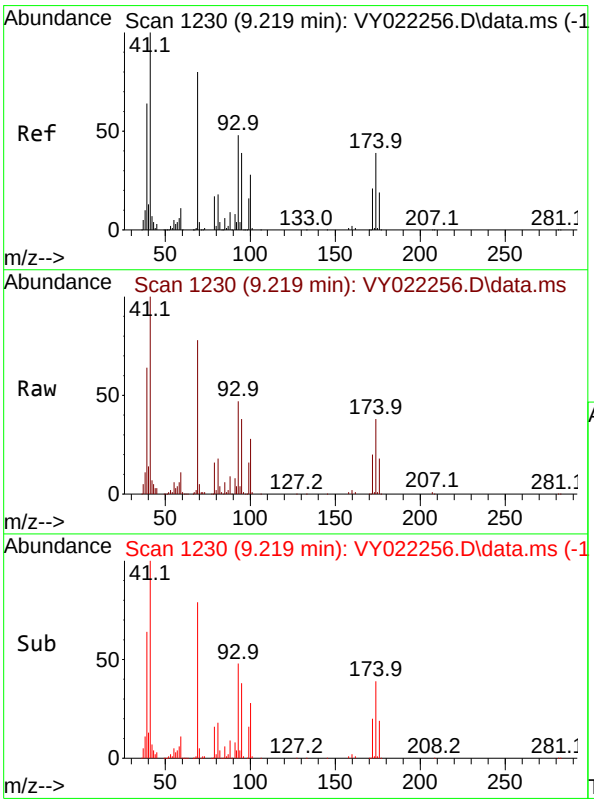
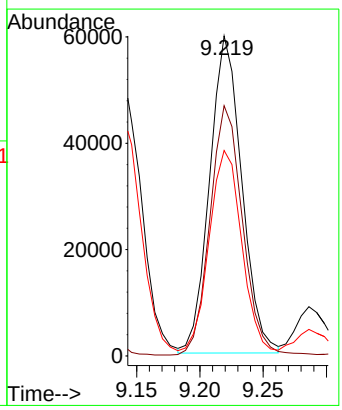
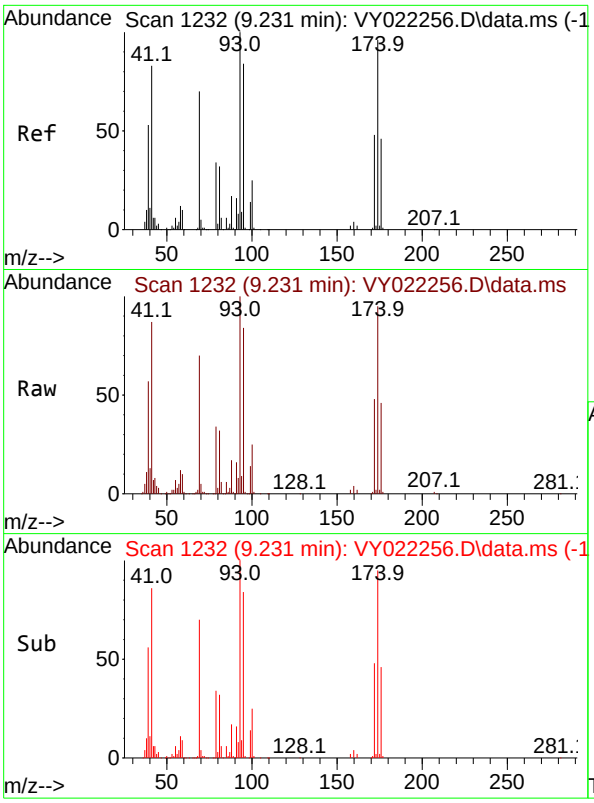


#48
Methyl methacrylate
Concen: 49.726 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 41 Resp: 105390

Ion	Ratio	Lower	Upper
41	100		
69	79.4	63.5	95.3
39	63.5	50.8	76.2

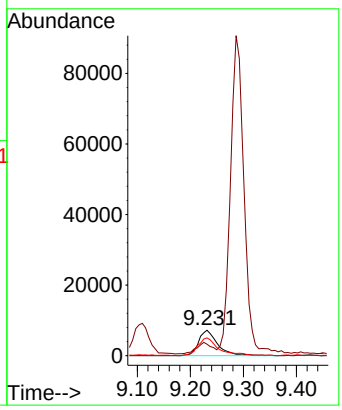




#49
1,4-Dioxane
Concen: 958.446 ug/l
RT: 9.231 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 88 Resp: 1802

Ion	Ratio	Lower	Upper
88	100		
43	35.6	28.5	42.7
58	76.8	61.4	92.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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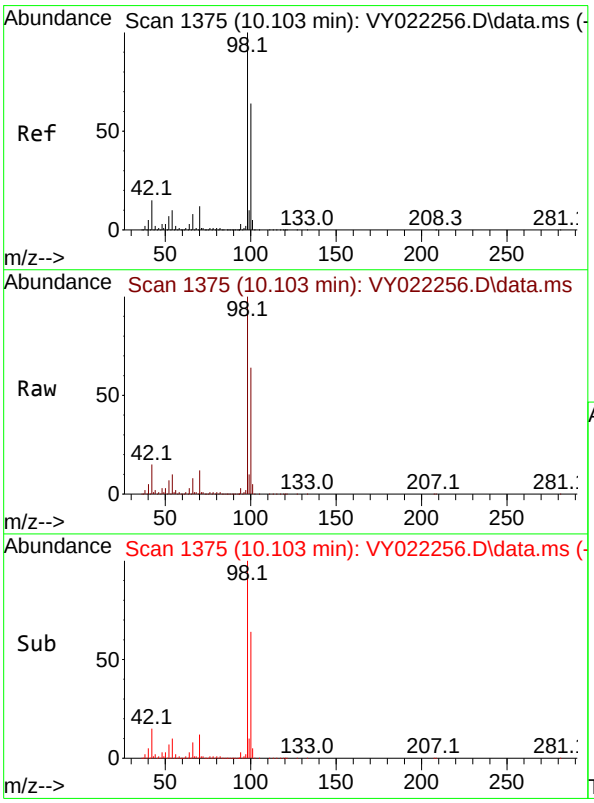
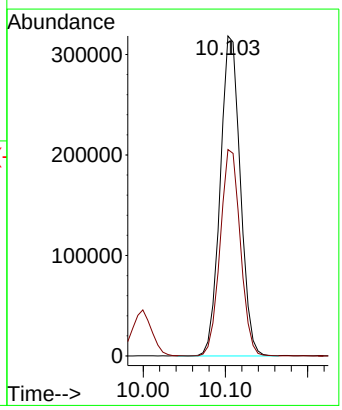
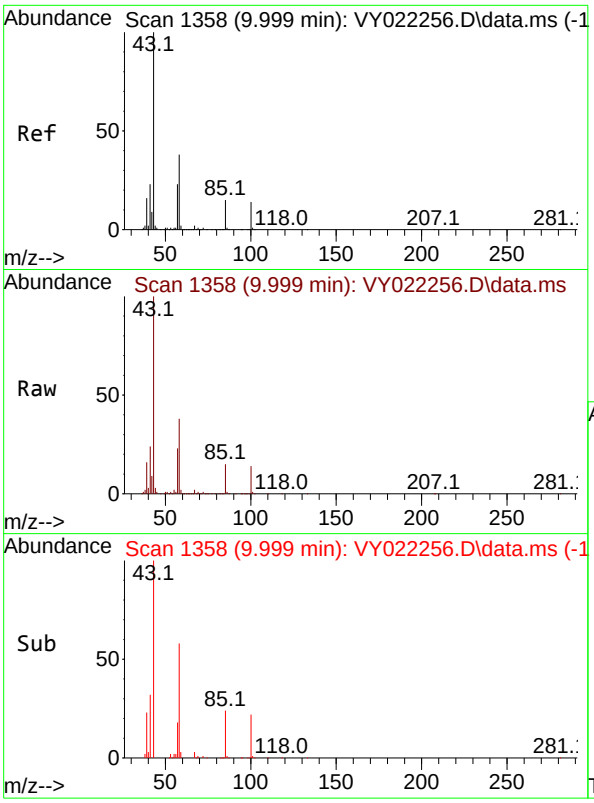


#50
Toluene-d8
Concen: 50.311 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 98 Resp: 540296

Ion	Ratio	Lower	Upper
98	100		
100	64.8	51.8	77.8

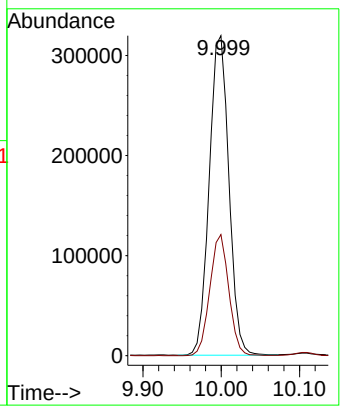




#51
4-Methyl-2-Pentanone
Concen: 250.085 ug/l
RT: 9.999 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 43 Resp: 5561

Ion	Ratio	Lower	Upper
43	100		
58	36.8	29.4	44.2



Instrument :
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ClientSampleId :
VSTDICCC050

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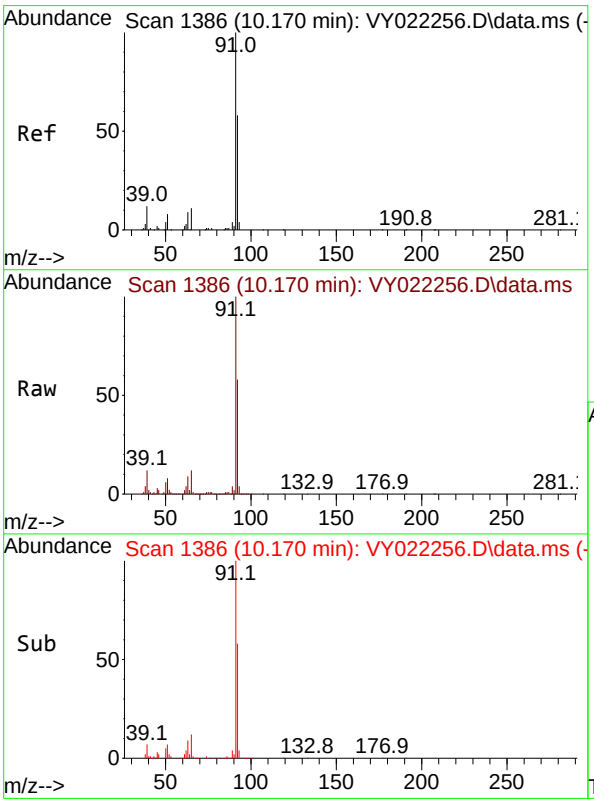
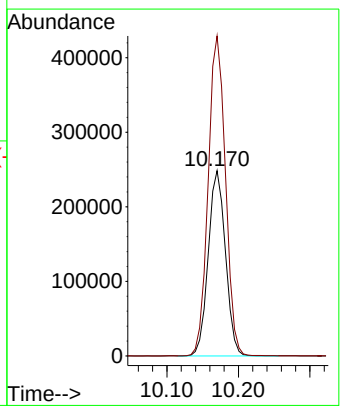
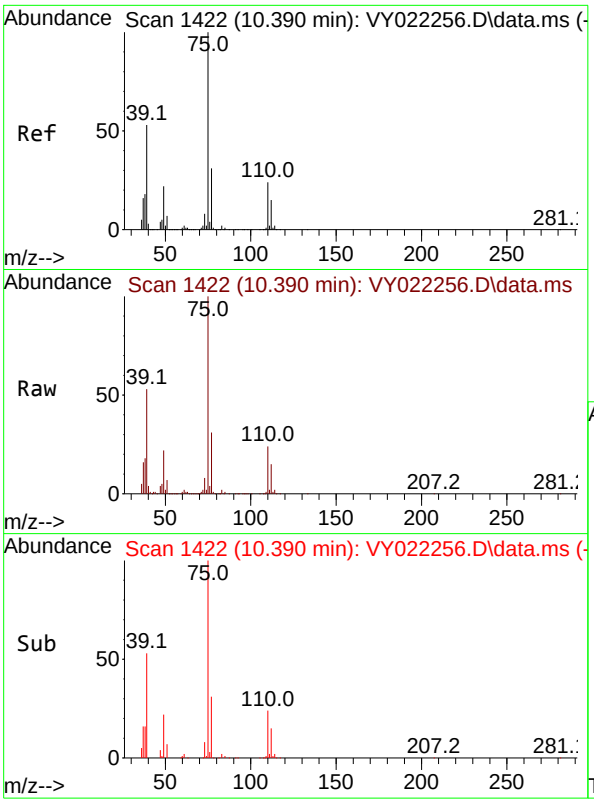


#52
Toluene
Concen: 51.134 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 92 Resp: 414584

Ion	Ratio	Lower	Upper
92	100		
91	173.9	139.1	208.7

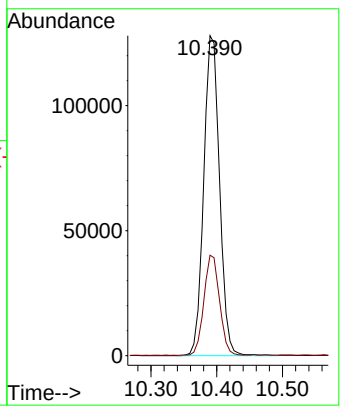




#53
t-1,3-Dichloropropene
Concen: 50.768 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 75 Resp: 21399

Ion	Ratio	Lower	Upper
75	100		
77	31.3	25.0	37.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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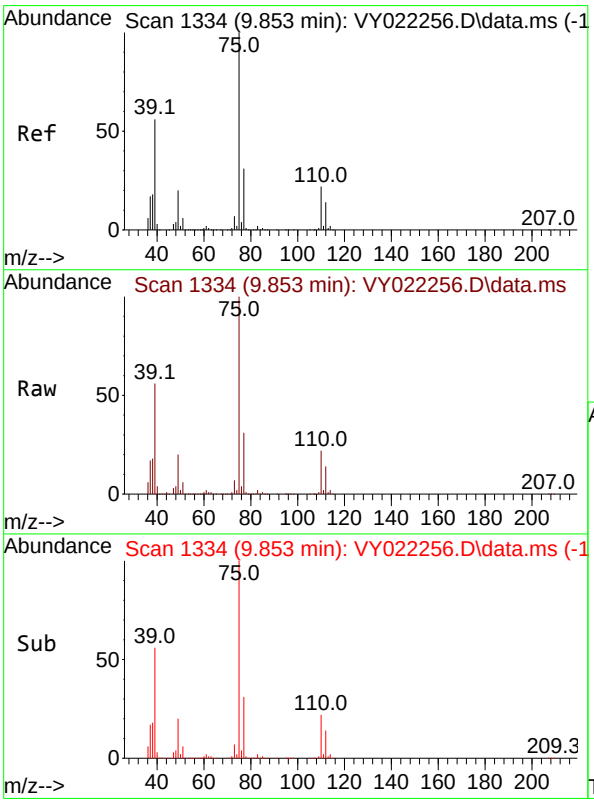
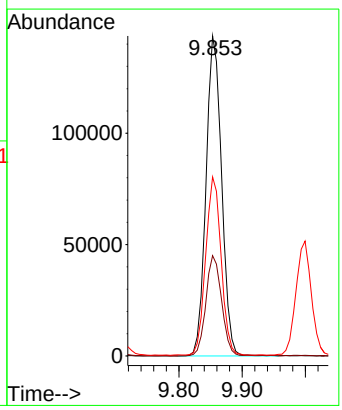
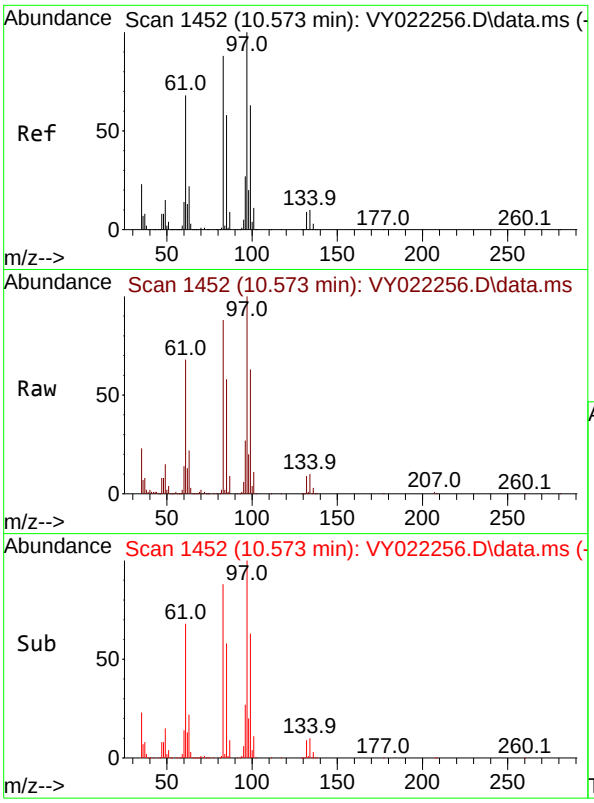


#54
cis-1,3-Dichloropropene
Concen: 51.143 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 75 Resp: 246990

Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.1	37.7
39	55.6	44.5	66.7

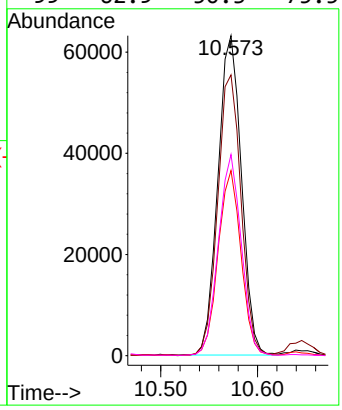




#55
1,1,2-Trichloroethane
Concen: 50.036 ug/l
RT: 10.573 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 97 Resp: 10667

Ion	Ratio	Lower	Upper
97	100		
83	87.9	70.3	105.5
85	57.8	46.2	69.4
99	62.9	50.3	75.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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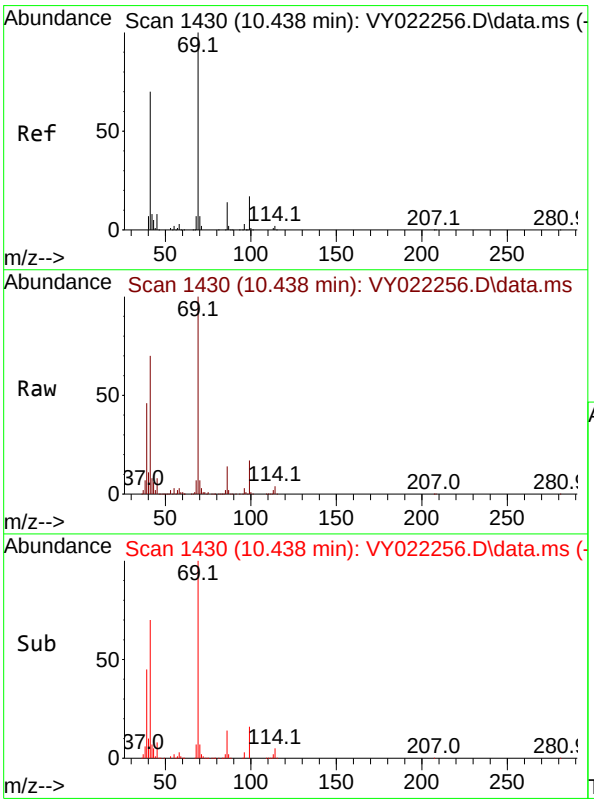
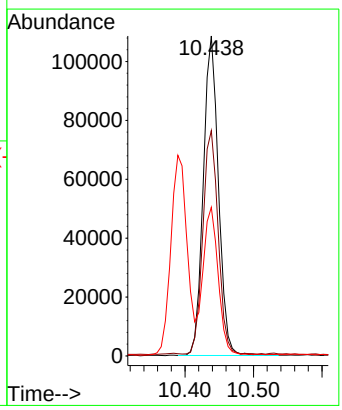
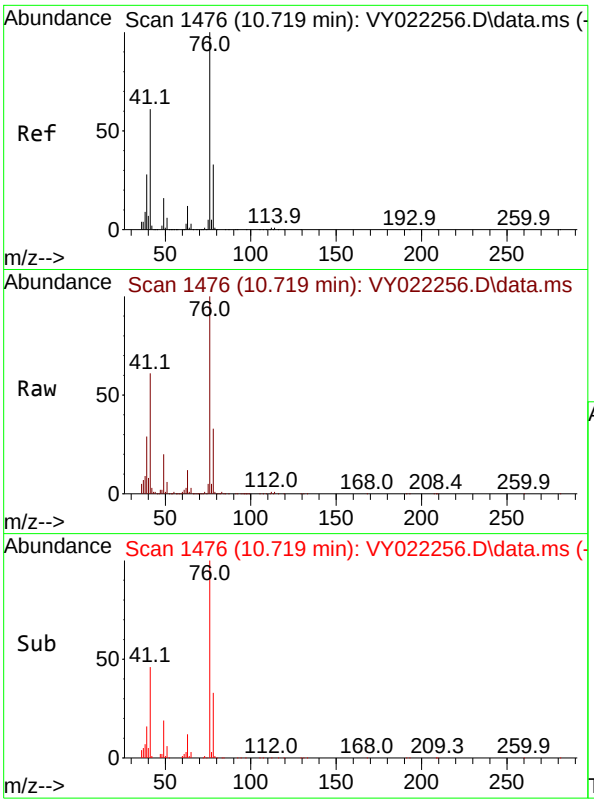


#56
Ethyl methacrylate
Concen: 50.364 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 69 Resp: 167259

Ion	Ratio	Lower	Upper
69	100		
41	70.6	56.5	84.7
39	46.4	37.1	55.7

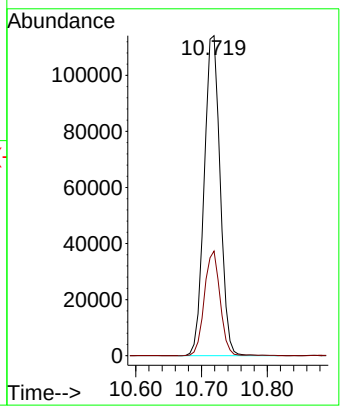




#57
1,3-Dichloropropane
Concen: 50.759 ug/l
RT: 10.719 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 76 Resp: 19227

Ion	Ratio	Lower	Upper
76	100		
78	32.3	25.8	38.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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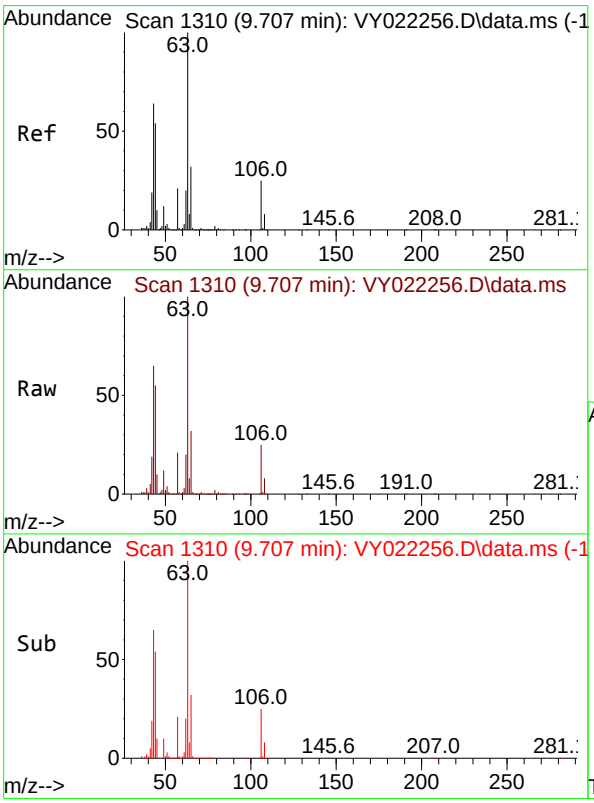
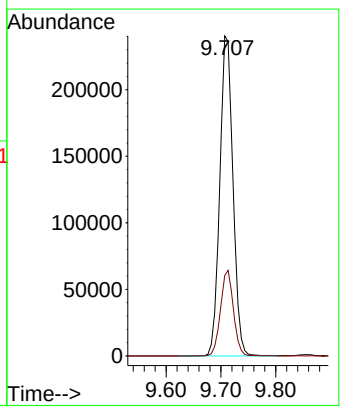
Supervised By :Semsettin Yesilyurt 05/16/2025

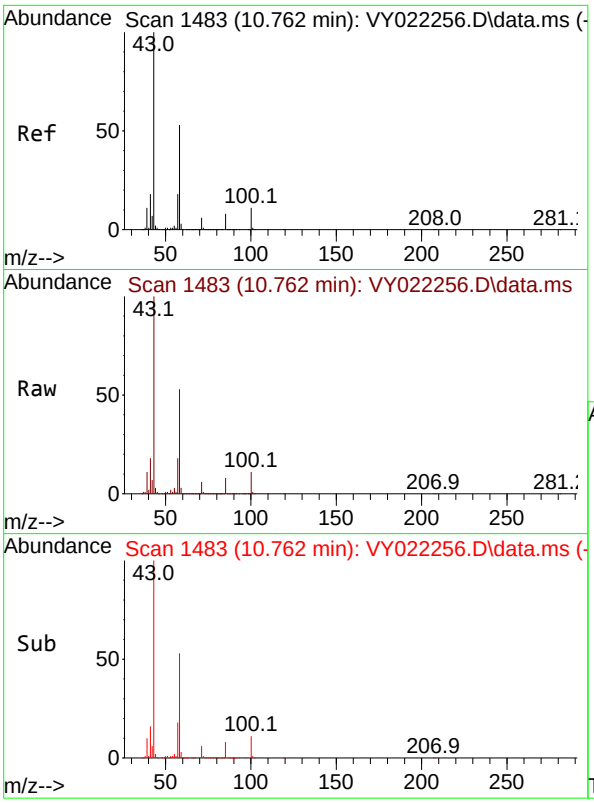


#58
2-Chloroethyl Vinyl ether
Concen: 270.408 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 63 Resp: 403074

Ion	Ratio	Lower	Upper
63	100		
106	26.2	21.0	31.4





#59
2-Hexanone
Concen: 244.881 ug/l
RT: 10.762 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 43 Resp: 36511

Ion	Ratio	Lower	Upper
43	100		
58	52.2	26.1	78.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
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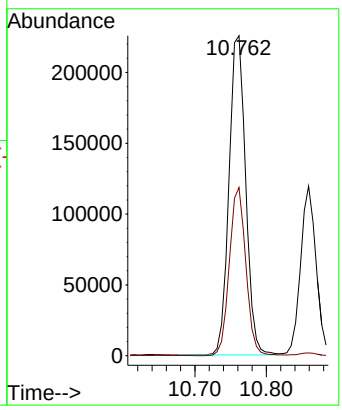
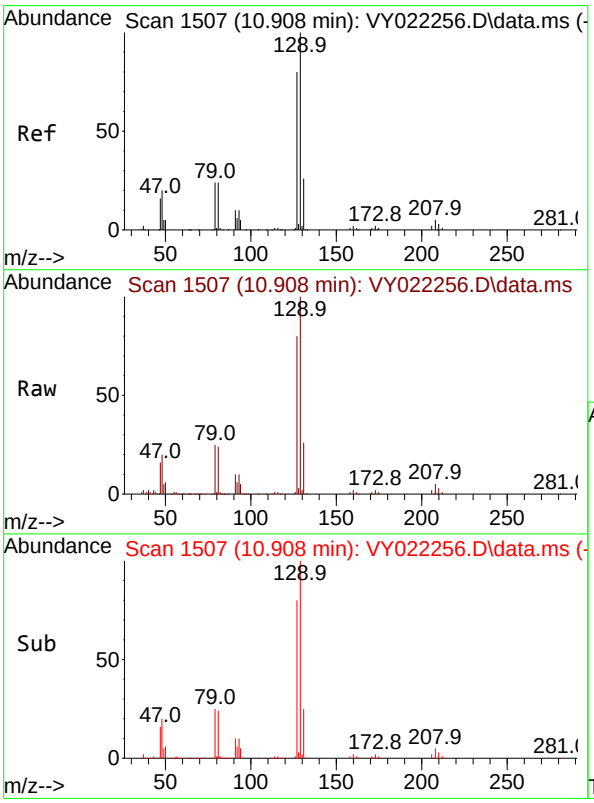
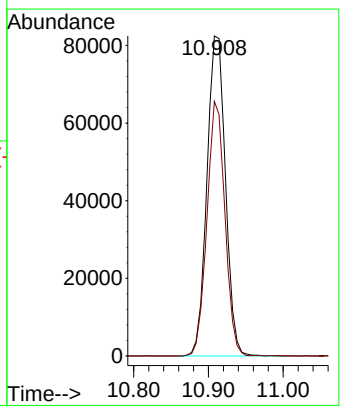


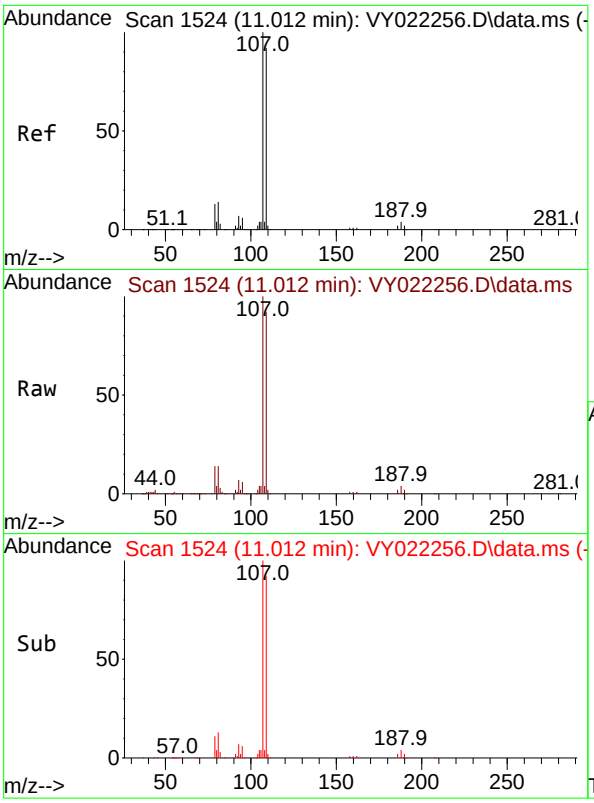


#60
Dibromochloromethane
Concen: 51.278 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion:129 Resp: 141896

Ion	Ratio	Lower	Upper
129	100		
127	77.1	38.6	115.7

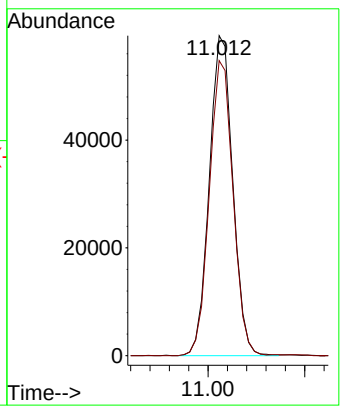




#61
1,2-Dibromoethane
Concen: 50.236 ug/l
RT: 11.012 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion:107 Resp: 9982

Ion	Ratio	Lower	Upper
107	100		
109	93.2	74.6	111.8



Instrument :
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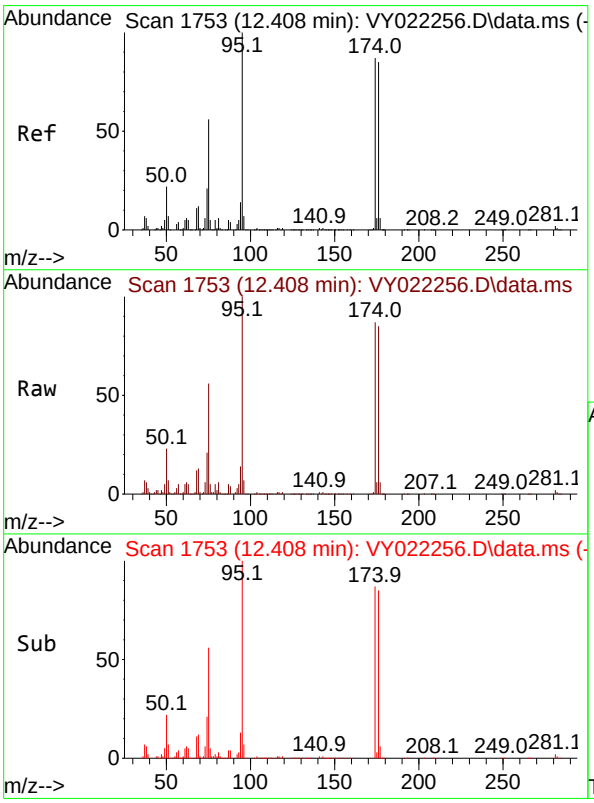
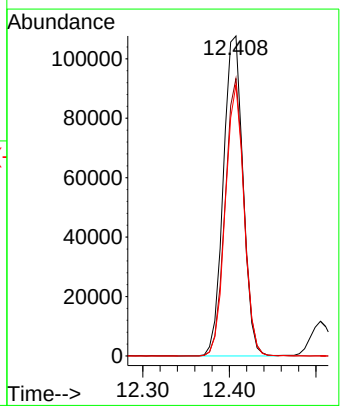
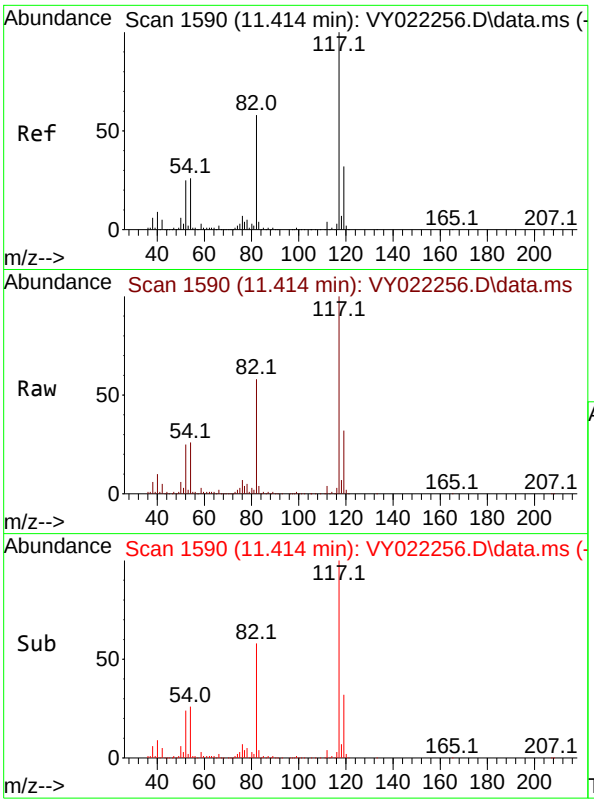


#62
4-Bromofluorobenzene
Concen: 49.891 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 95 Resp: 169827

Ion	Ratio	Lower	Upper
95	100		
174	83.4	0.0	166.8
176	80.4	0.0	160.8

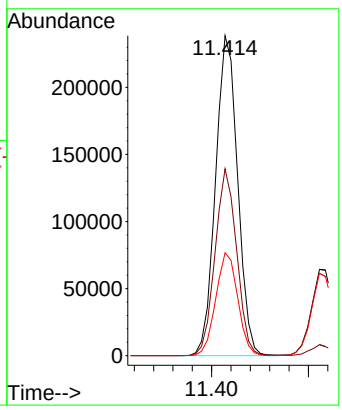




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion:117 Resp: 37757

Ion	Ratio	Lower	Upper
117	100		
82	58.3	46.6	70.0
119	32.2	25.8	38.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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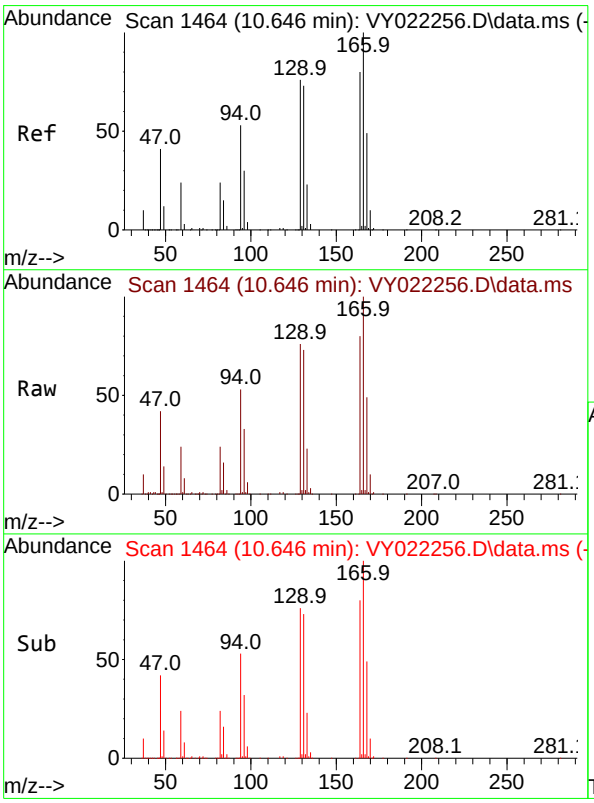
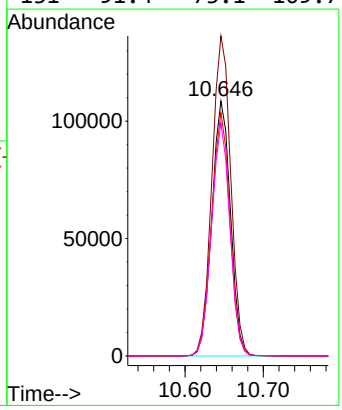
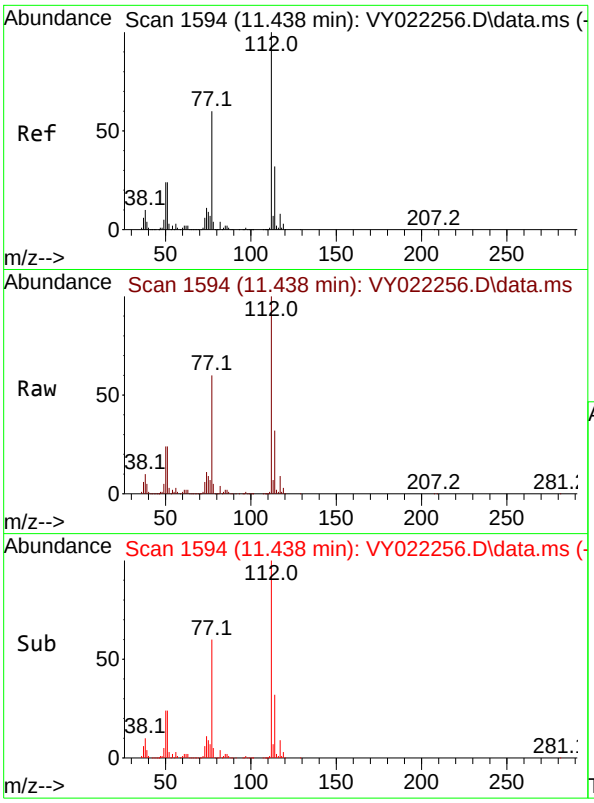


#64
Tetrachloroethene
Concen: 51.249 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion:164 Resp: 178854

Ion	Ratio	Lower	Upper
164	100		
166	125.5	100.4	150.6
129	95.5	76.4	114.6
131	91.4	73.1	109.7

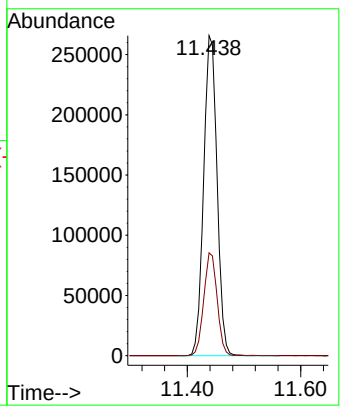




#65
Chlorobenzene
Concen: 51.169 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion:112 Resp: 43587

Ion	Ratio	Lower	Upper
112	100		
114	32.2	25.8	38.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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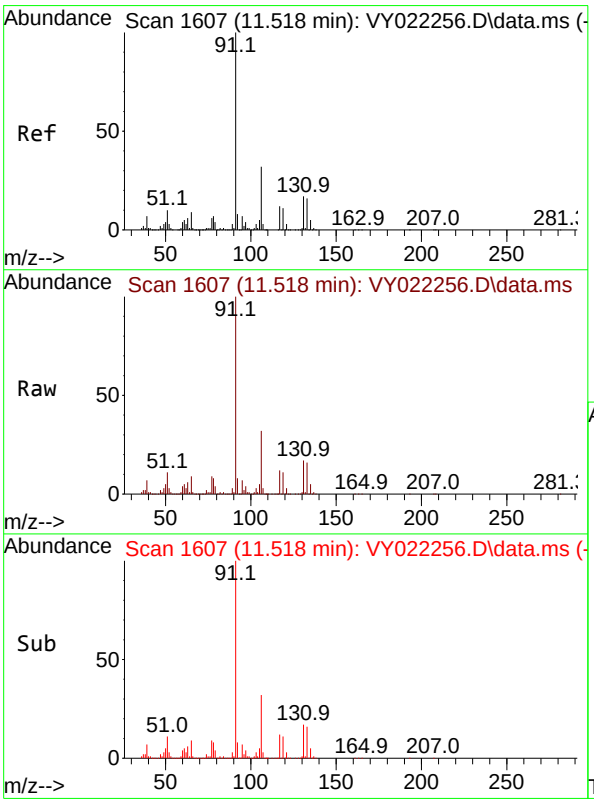
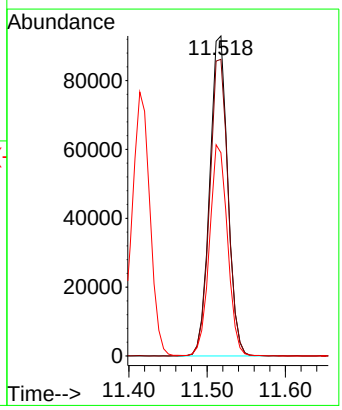
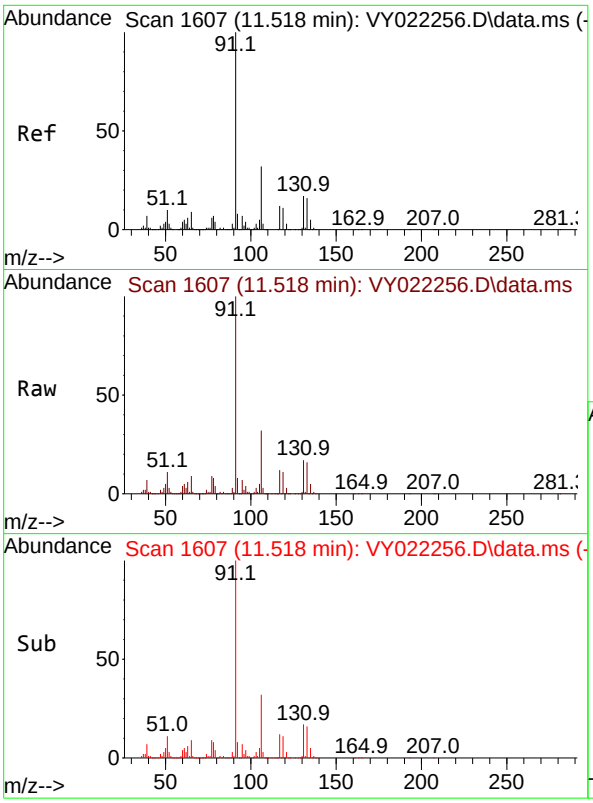


#66
1,1,1,2-Tetrachloroethane
Concen: 50.811 ug/l
RT: 11.518 min Scan# 1607
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion:131 Resp: 148798

Ion	Ratio	Lower	Upper
131	100		
133	94.6	47.3	141.9
119	66.1	33.1	99.2

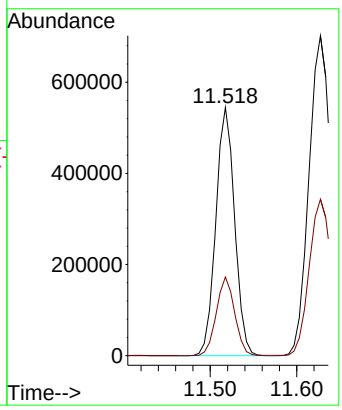




#67
Ethyl Benzene
Concen: 51.473 ug/l
RT: 11.518 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 91 Resp: 82116

Ion	Ratio	Lower	Upper
91	100		
106	31.7	25.4	38.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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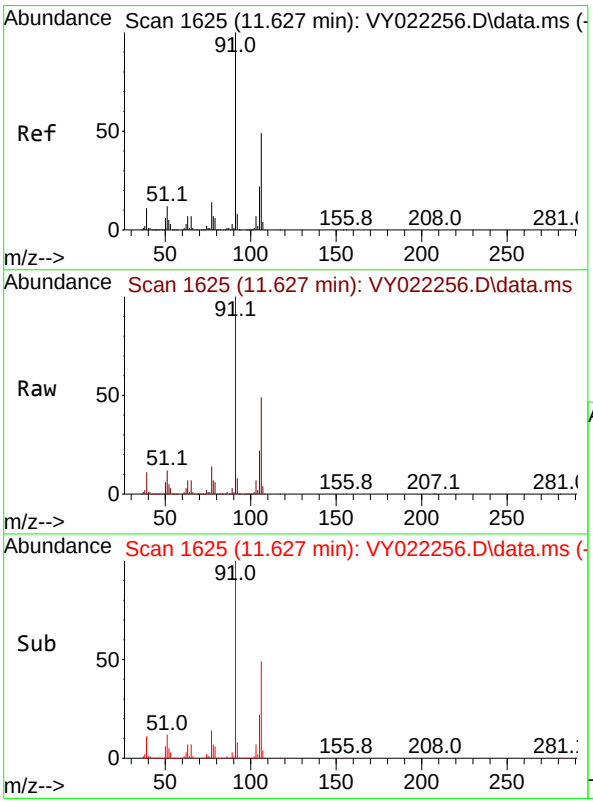
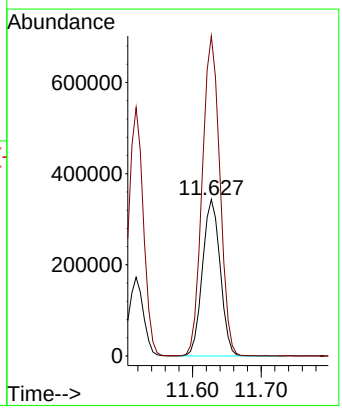
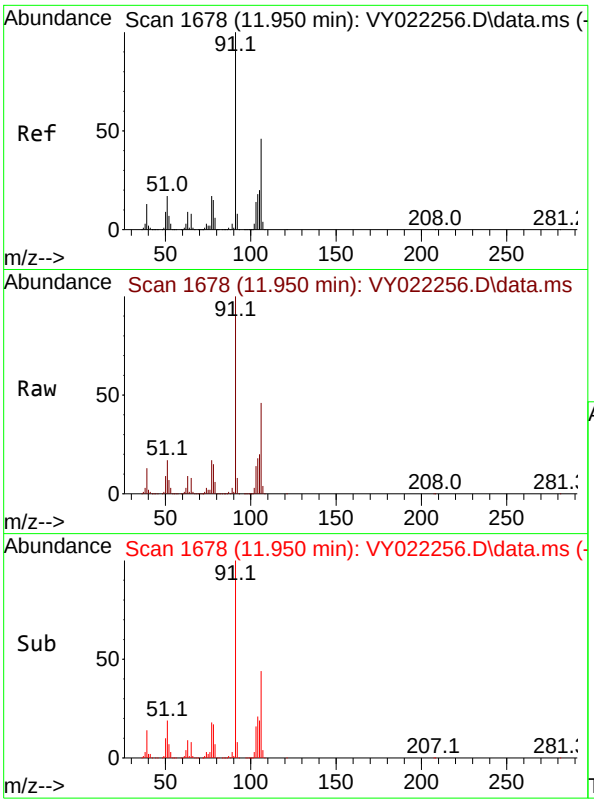


#68
m/p-Xylenes
Concen: 102.746 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion:106 Resp: 617646

Ion	Ratio	Lower	Upper
106	100		
91	203.7	163.0	244.4





#69
o-Xylene
Concen: 50.971 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion:106 Resp: 28989

Ion	Ratio	Lower	Upper
106	100		
91	216.5	108.3	324.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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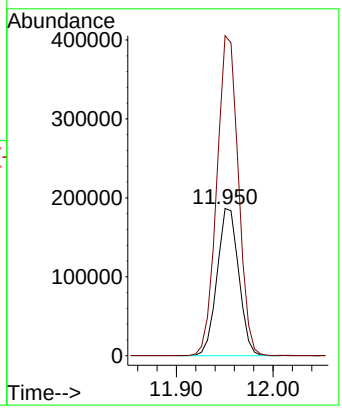
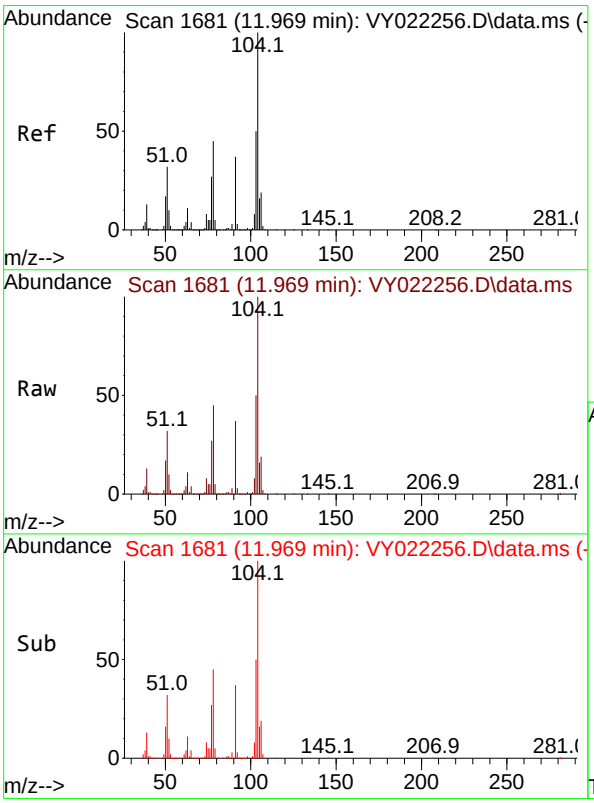
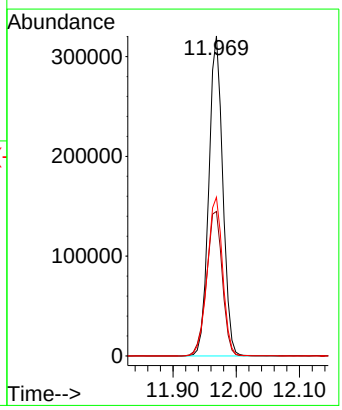


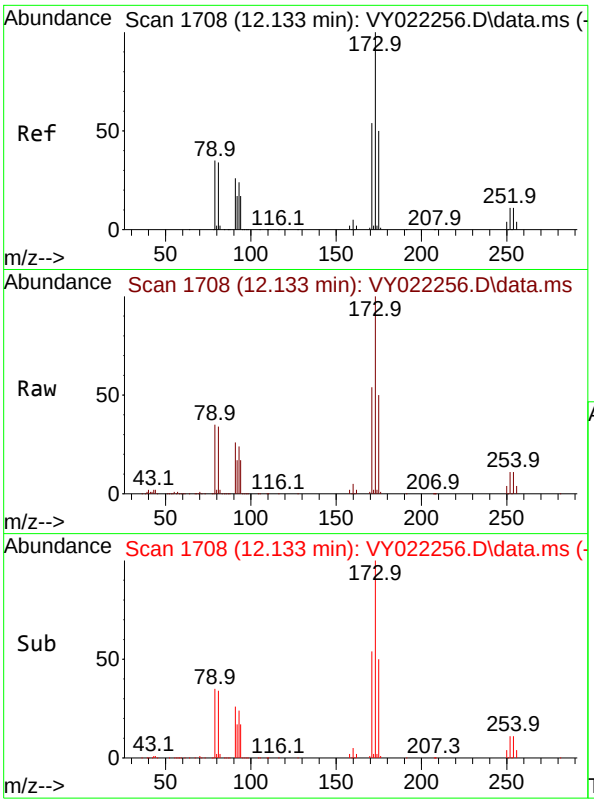


#70
Styrene
Concen: 51.260 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion:104 Resp: 491792

Ion	Ratio	Lower	Upper
104	100		
78	51.1	40.9	61.3
103	54.6	43.7	65.5

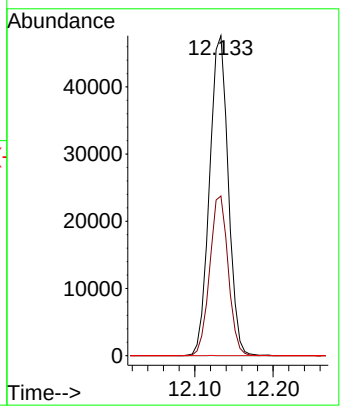




#71
Bromoform
Concen: 49.849 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion:173 Resp: 7879

Ion	Ratio	Lower	Upper
173	100		
175	49.4	24.7	74.1
254	0.0	0.0	0.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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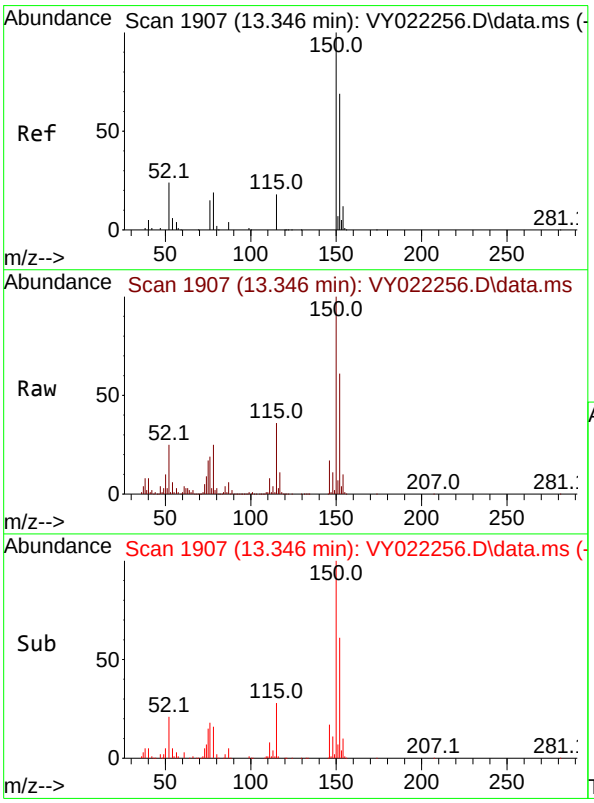
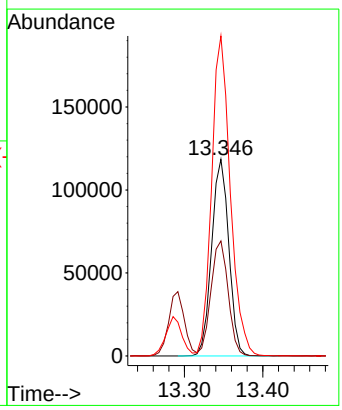
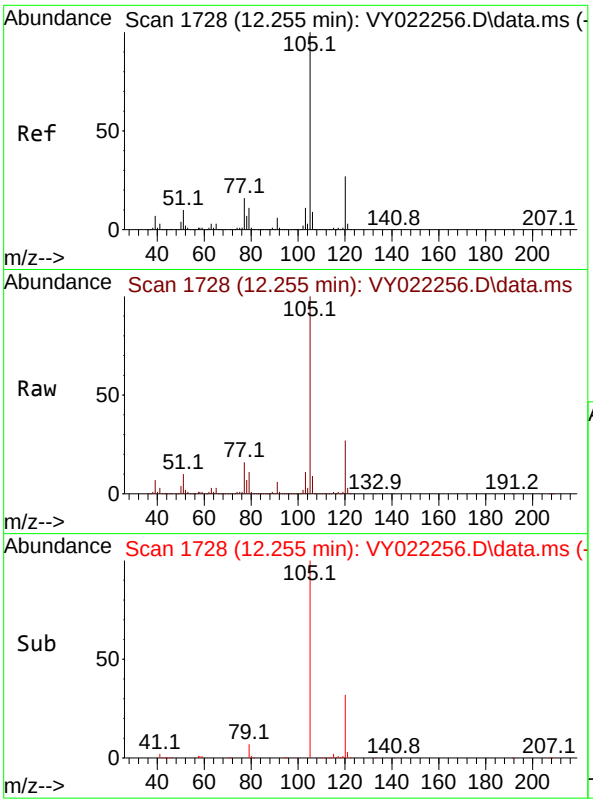


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion:152 Resp: 180358

Ion	Ratio	Lower	Upper
152	100		
115	58.8	29.4	88.2
150	176.9	0.0	353.8

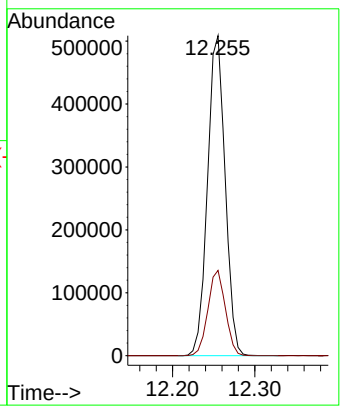




#73
Isopropylbenzene
Concen: 50.657 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion:105 Resp: 75690

Ion	Ratio	Lower	Upper
105	100		
120	26.4	13.2	39.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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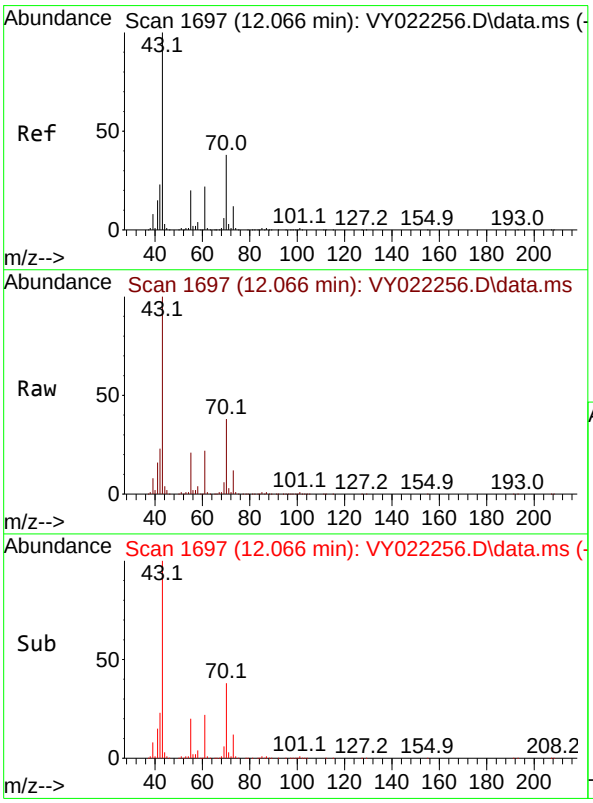
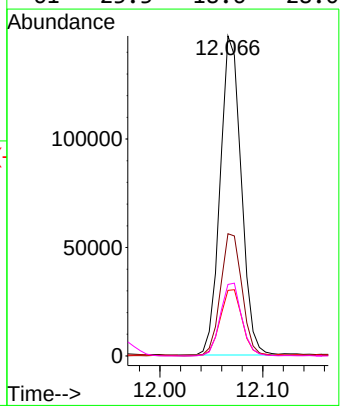
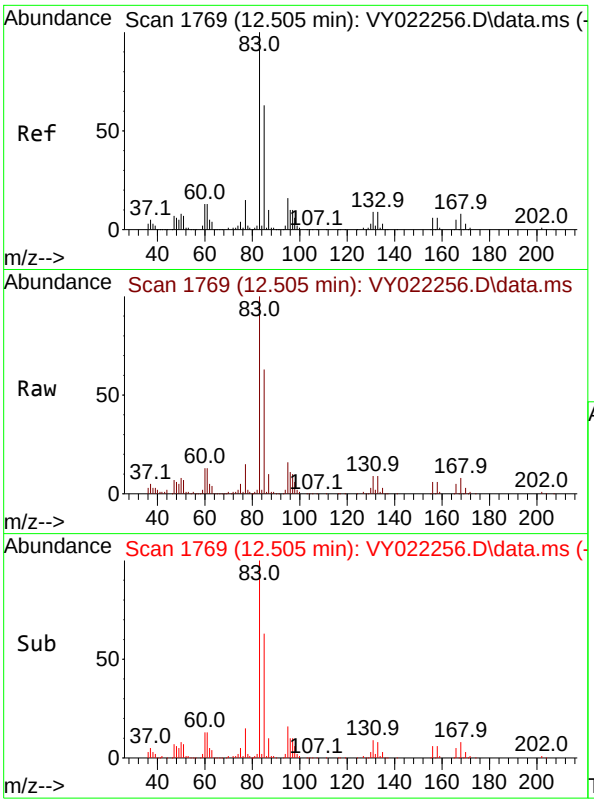


#74
N-amyl acetate
Concen: 48.930 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 43 Resp: 209097

Ion	Ratio	Lower	Upper
43	100		
70	39.2	31.4	47.0
55	21.3	17.0	25.6
61	23.3	18.6	28.0

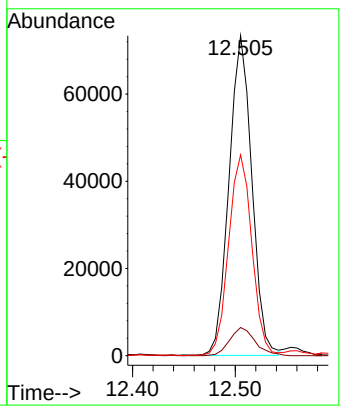




#75
1,1,2,2-Tetrachloroethane
Concen: 49.277 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 83 Resp: 11323

Ion	Ratio	Lower	Upper
83	100		
131	9.8	4.9	14.7
85	64.0	32.0	96.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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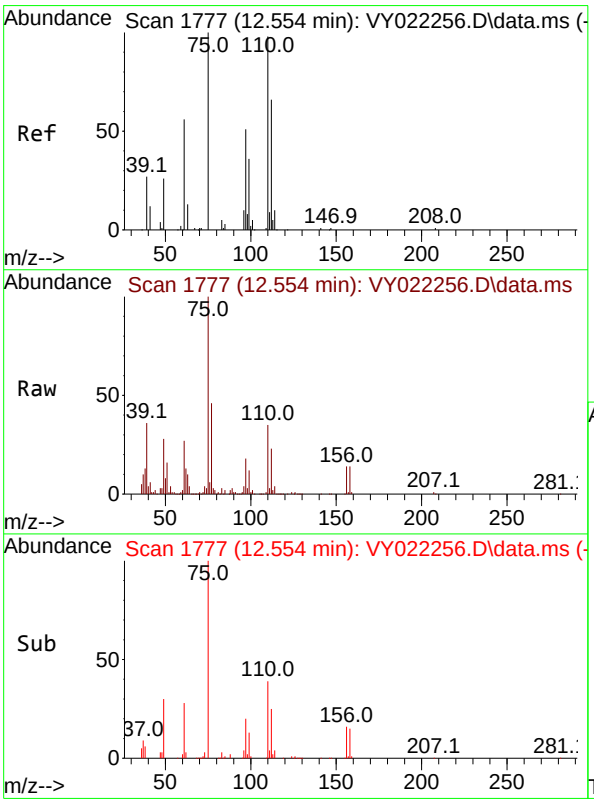
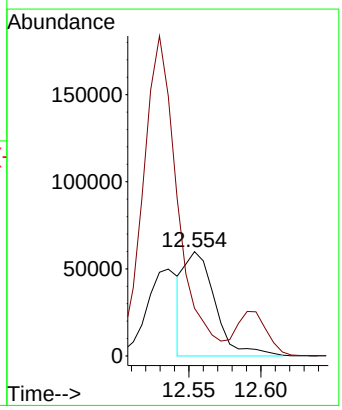
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

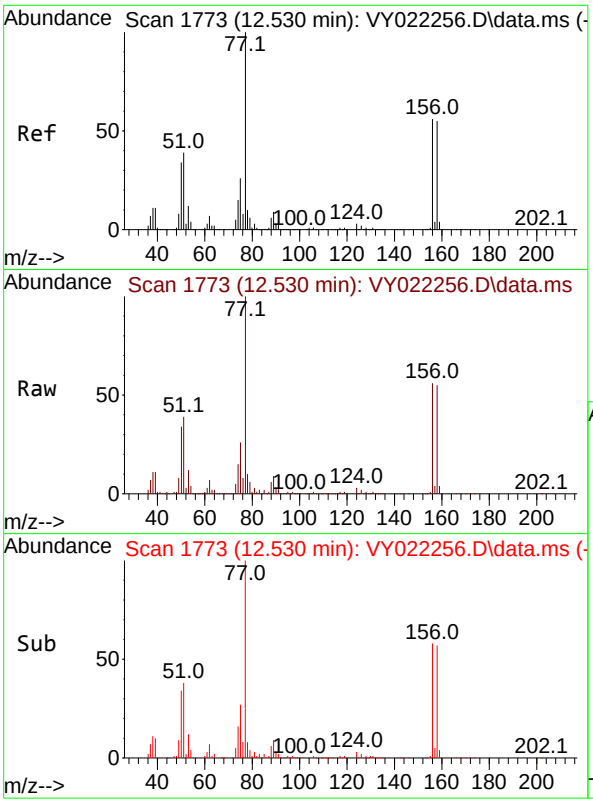


#76
1,2,3-Trichloropropane
Concen: 28.402 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 75 Resp: 90281

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

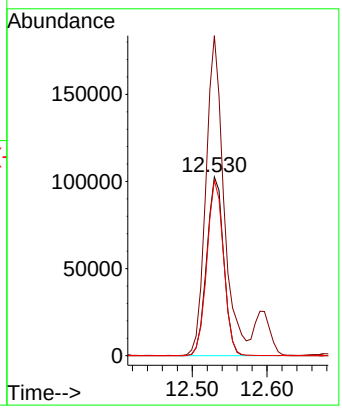




#77
Bromobenzene
Concen: 50.599 ug/l
RT: 12.530 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion:156 Resp: 16147

Ion	Ratio	Lower	Upper
156	100		
77	189.1	94.5	283.6
158	96.9	48.4	145.3



Instrument :
MSVOA_Y
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VSTDICCC050

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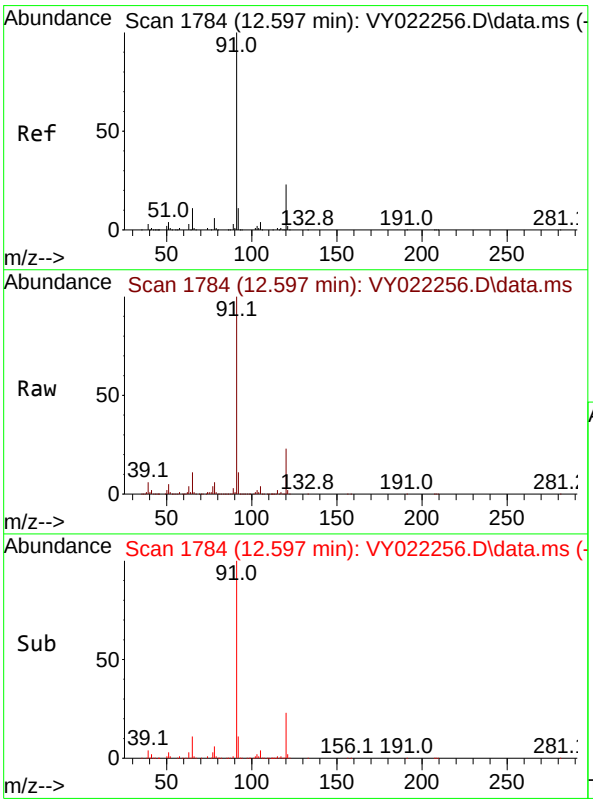
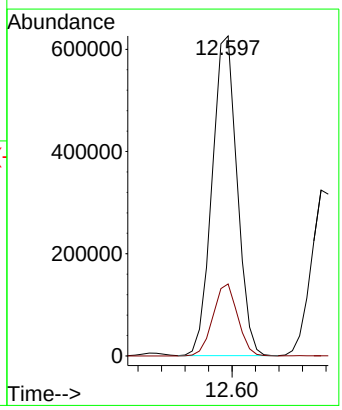
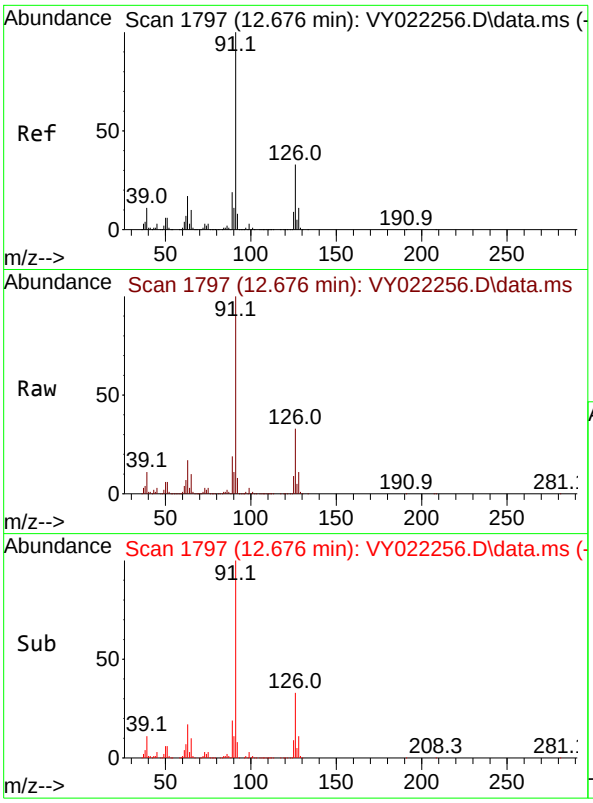


#78
n-propylbenzene
Concen: 51.306 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 91 Resp: 924664

Ion	Ratio	Lower	Upper
91	100		
120	22.2	11.1	33.3

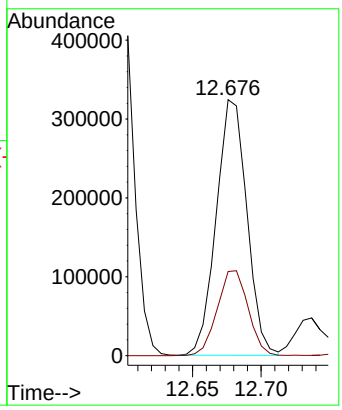




#79
2-Chlorotoluene
Concen: 51.058 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 91 Resp: 50568

Ion	Ratio	Lower	Upper
91	100		
126	33.6	16.8	50.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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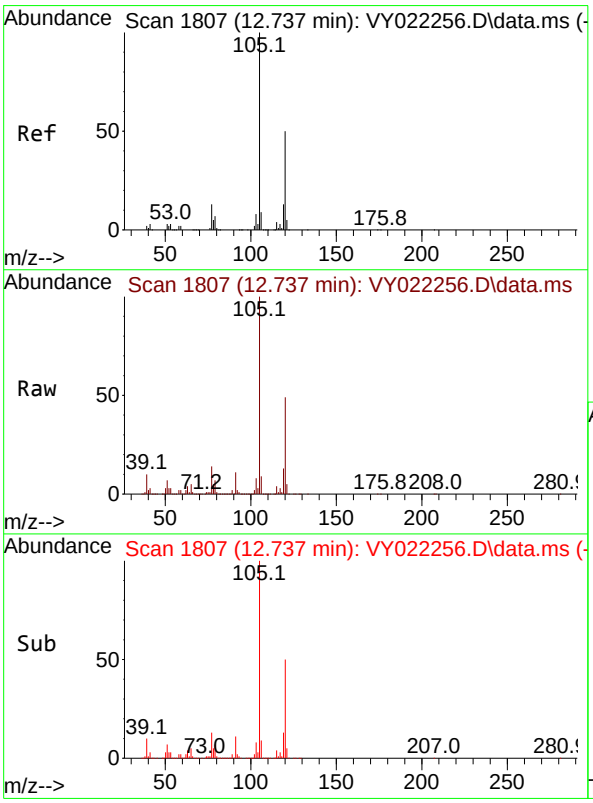
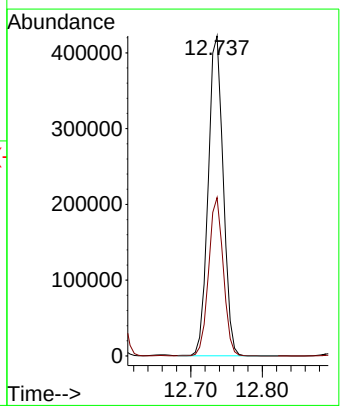
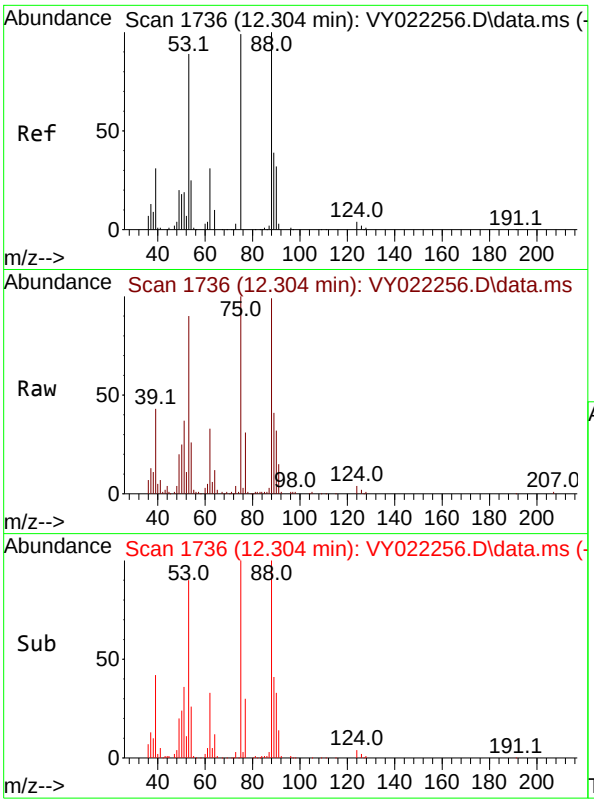


#80
1,3,5-Trimethylbenzene
Concen: 50.991 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion:105 Resp: 615033

Ion	Ratio	Lower	Upper
105	100		
120	48.4	24.2	72.6

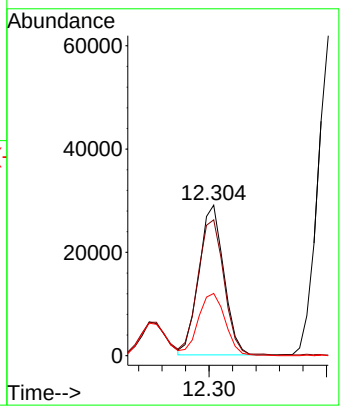




#81
trans-1,4-Dichloro-2-butene
Concen: 47.331 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 75 Resp: 4269

Ion	Ratio	Lower	Upper
75	100		
53	94.8	75.8	113.8
89	45.2	36.2	54.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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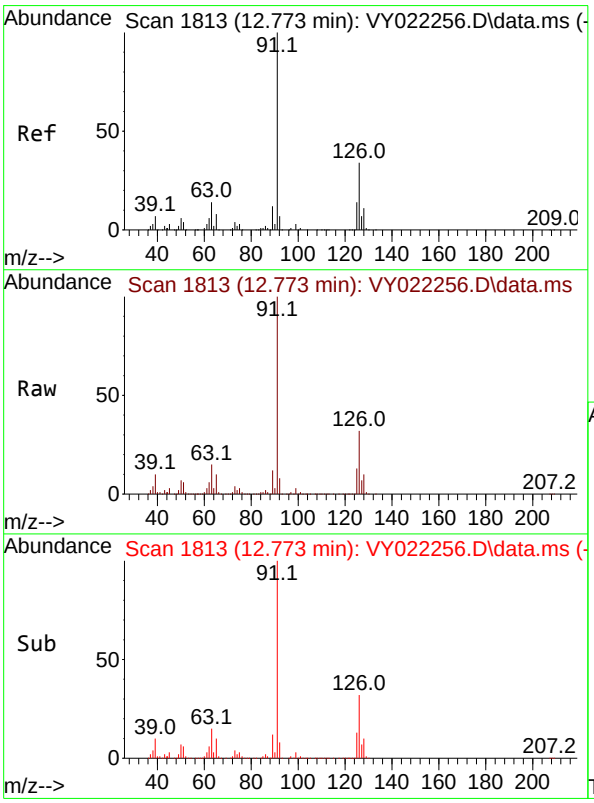
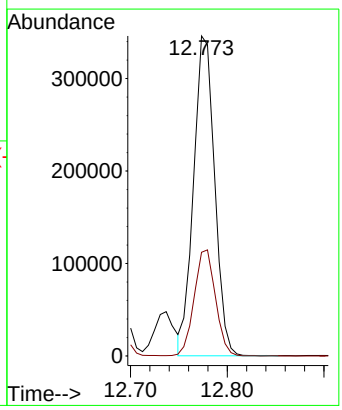
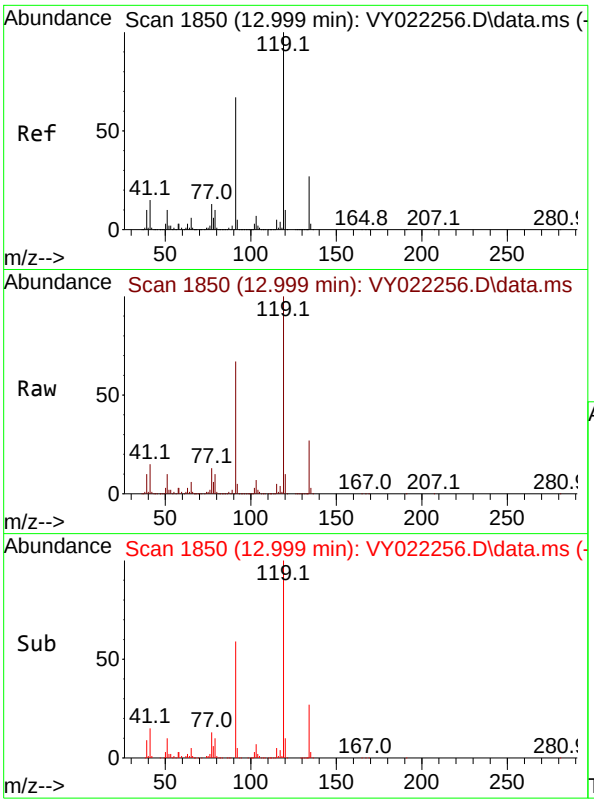


#82
4-Chlorotoluene
Concen: 51.464 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 91 Resp: 524270

Ion	Ratio	Lower	Upper
91	100		
126	33.6	16.8	50.4

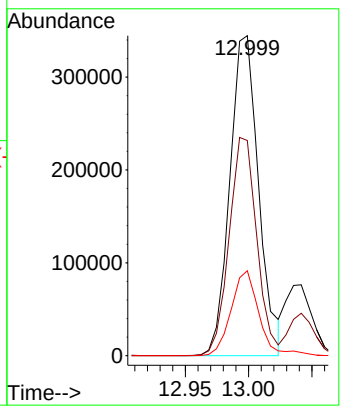




#83
tert-Butylbenzene
Concen: 50.952 ug/l
RT: 12.999 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion:119 Resp: 54623

Ion	Ratio	Lower	Upper
119	100		
91	65.5	32.8	98.3
134	25.7	12.9	38.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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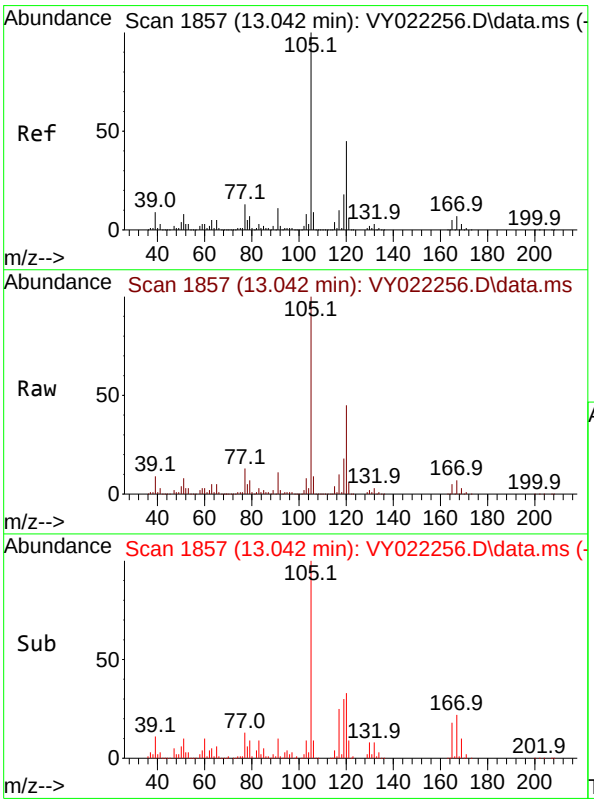
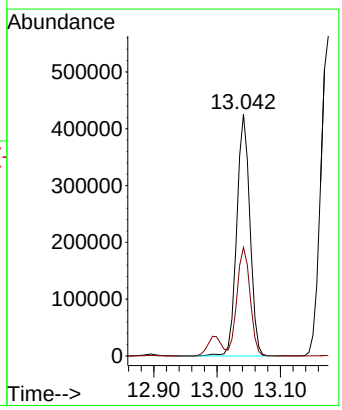
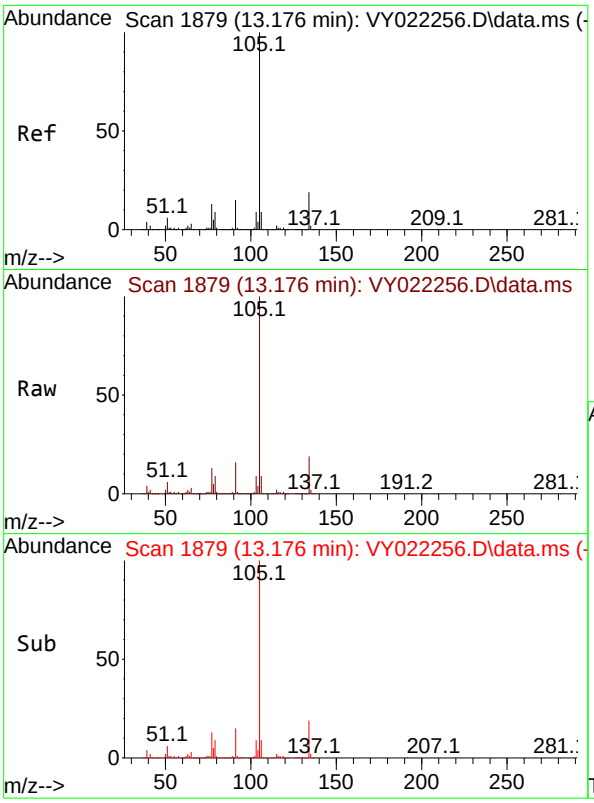


#84
1,2,4-Trimethylbenzene
Concen: 51.410 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion:105 Resp: 615550

Ion	Ratio	Lower	Upper
105	100		
120	44.6	22.3	66.9

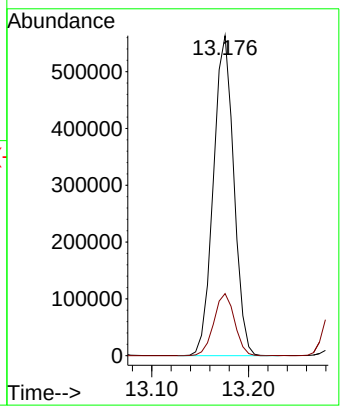




#85
sec-Butylbenzene
Concen: 51.825 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion:105 Resp: 82472

Ion	Ratio	Lower	Upper
105	100		
134	19.7	9.8	29.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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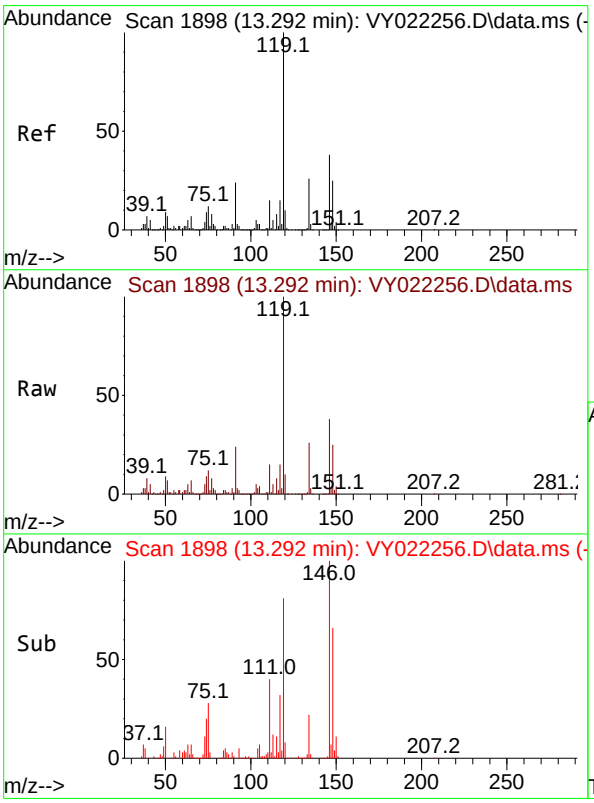
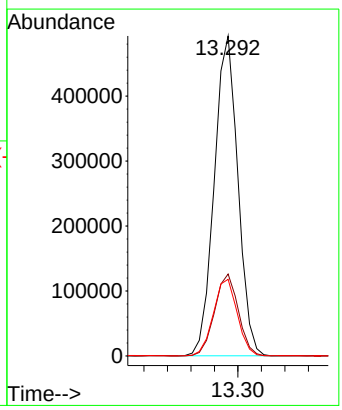
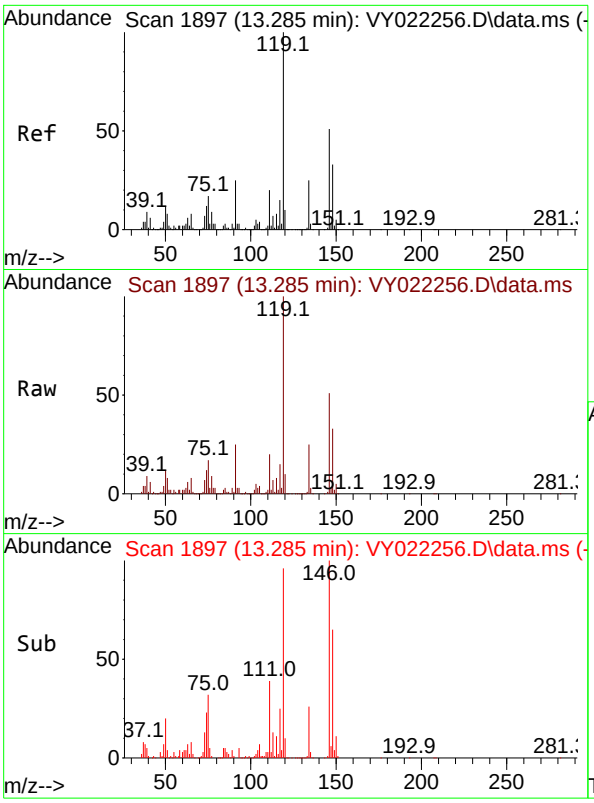


#86
p-Isopropyltoluene
Concen: 51.446 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion:119 Resp: 688561

Ion	Ratio	Lower	Upper
119	100		
134	25.7	12.9	38.6
91	24.2	12.1	36.3

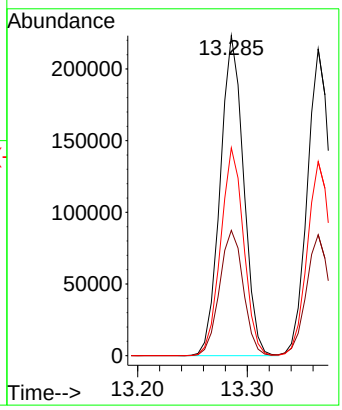




#87
1,3-Dichlorobenzene
Concen: 50.890 ug/l
RT: 13.285 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion:146 Resp: 33153

Ion	Ratio	Lower	Upper
146	100		
111	39.8	19.9	59.7
148	63.8	31.9	95.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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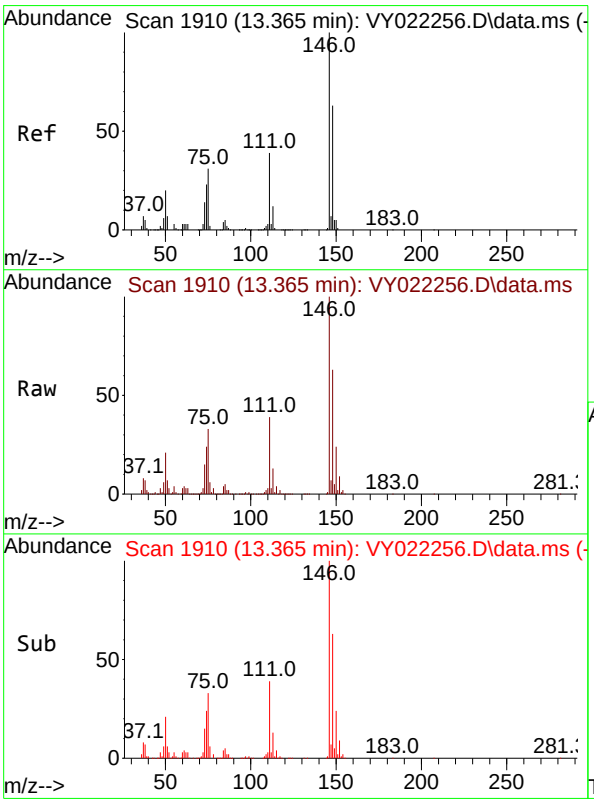
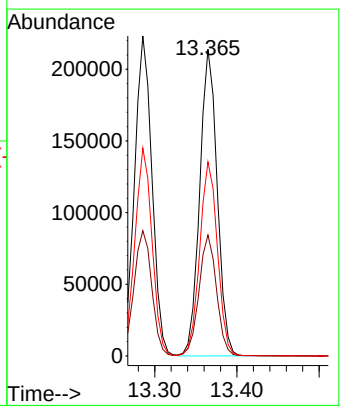
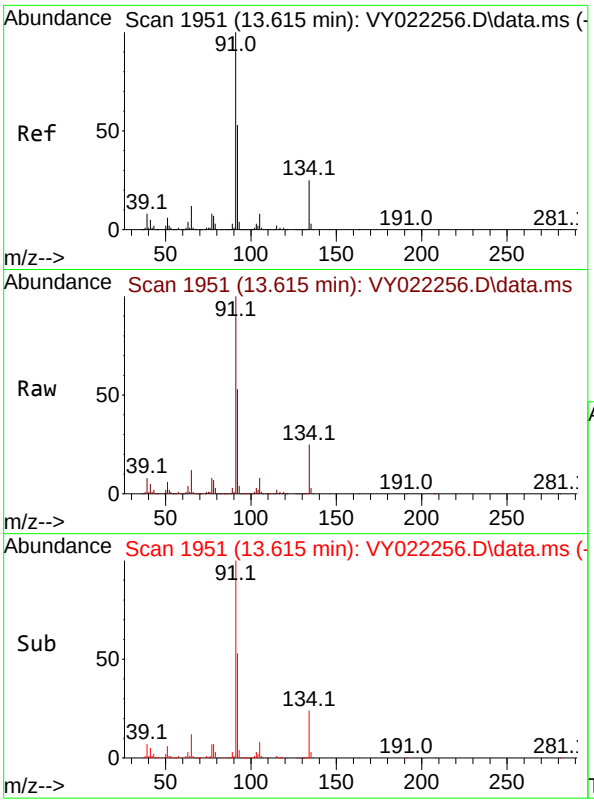


#88
1,4-Dichlorobenzene
Concen: 50.363 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion:146 Resp: 315598

Ion	Ratio	Lower	Upper
146	100		
111	39.9	20.0	59.9
148	64.3	32.1	96.5

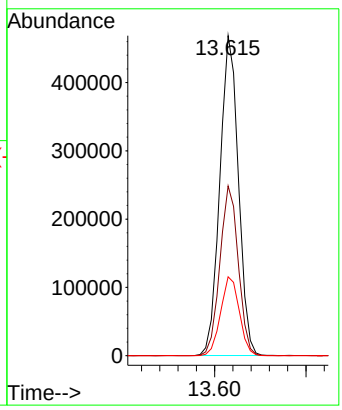




#89
n-Butylbenzene
Concen: 52.245 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 91 Resp: 66153

Ion	Ratio	Lower	Upper
91	100		
92	52.6	26.3	78.9
134	24.9	12.4	37.4



Instrument :
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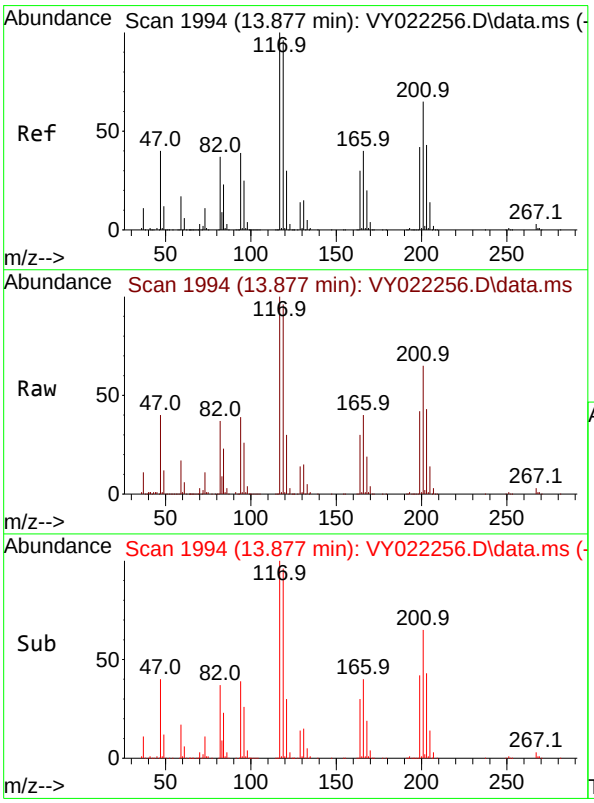
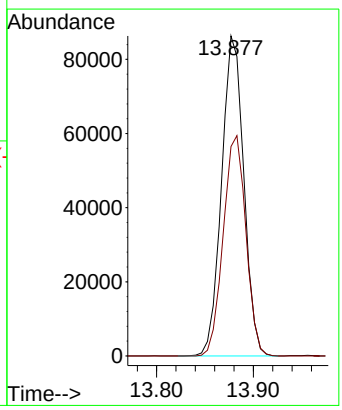
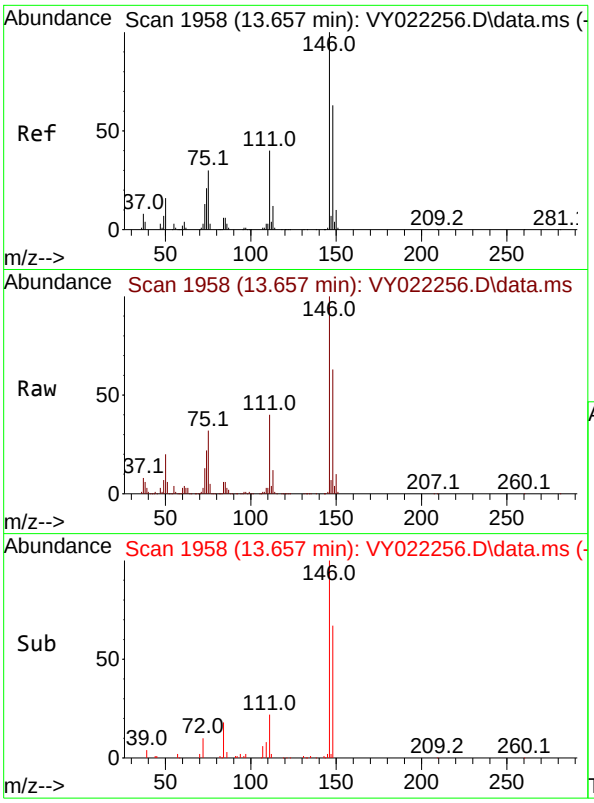


#90
Hexachloroethane
Concen: 50.791 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion:117 Resp: 137225

Ion	Ratio	Lower	Upper
117	100		
201	70.4	35.2	105.6

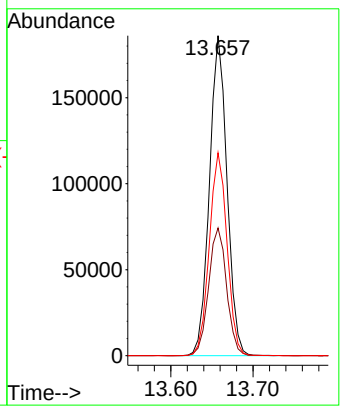




#91
1,2-Dichlorobenzene
Concen: 50.558 ug/l
RT: 13.657 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion:146 Resp: 27666

Ion	Ratio	Lower	Upper
146	100		
111	41.0	20.5	61.5
148	64.0	32.0	96.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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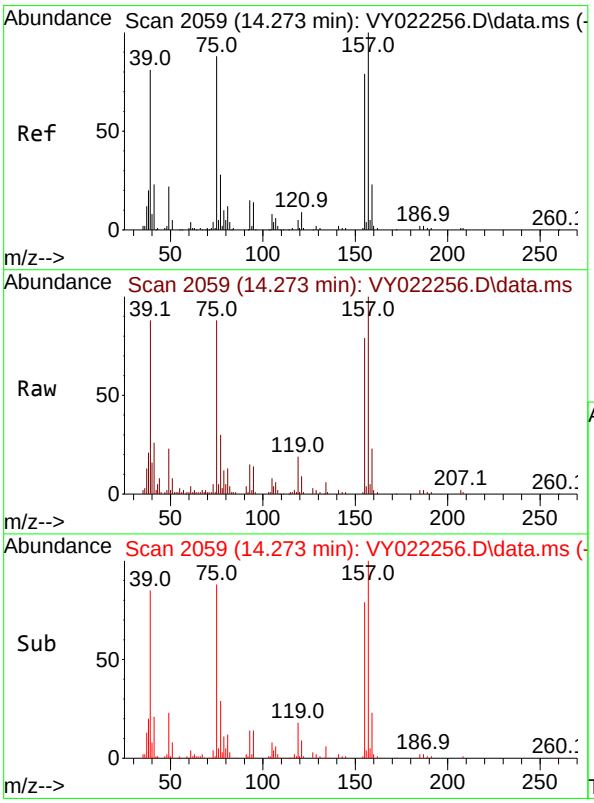
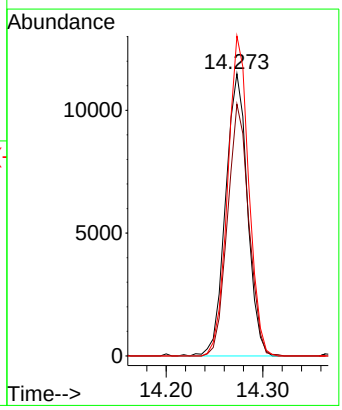
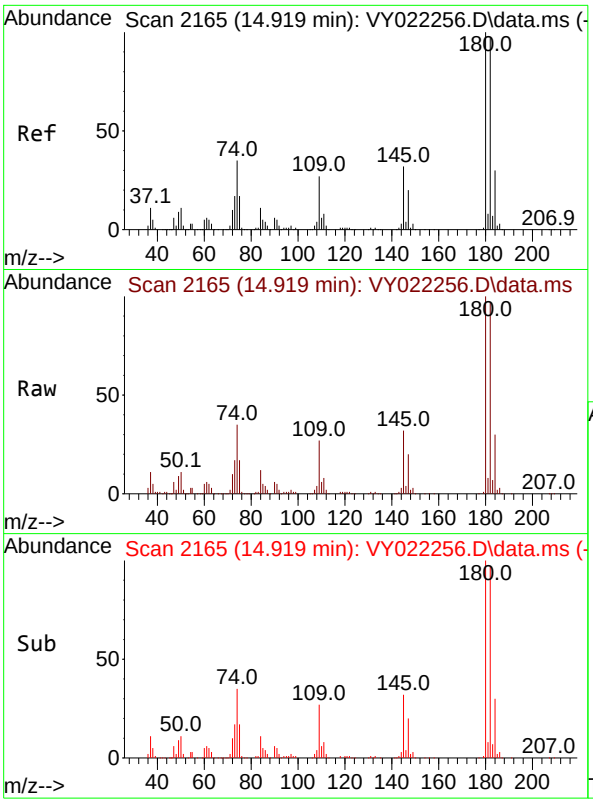


#92
1,2-Dibromo-3-Chloropropane
Concen: 48.682 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 75 Resp: 18039

Ion	Ratio	Lower	Upper
75	100		
155	86.7	43.4	130.1
157	109.3	54.6	163.9





#93
1,2,4-Trichlorobenzene
Concen: 51.338 ug/l
RT: 14.919 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion:180 Resp: 16227

Ion	Ratio	Lower	Upper
180	100		
182	96.0	48.0	144.0
145	30.1	15.0	45.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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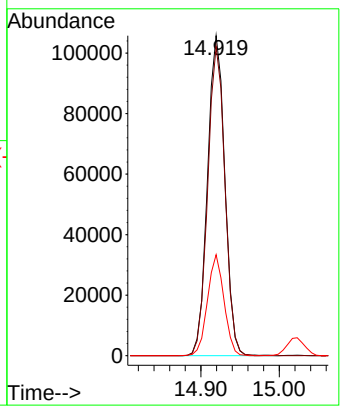
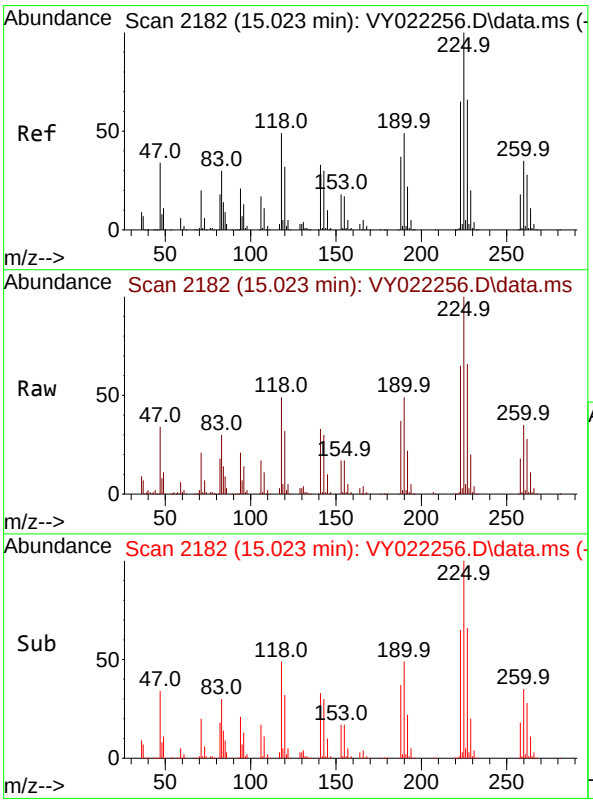
Supervised By :Semsettin Yesilyurt 05/16/2025

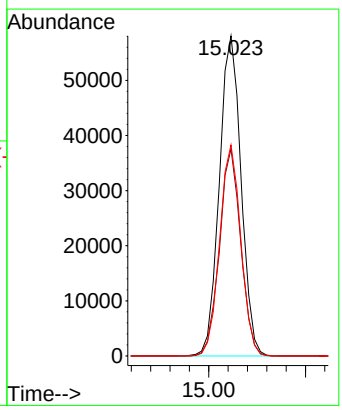


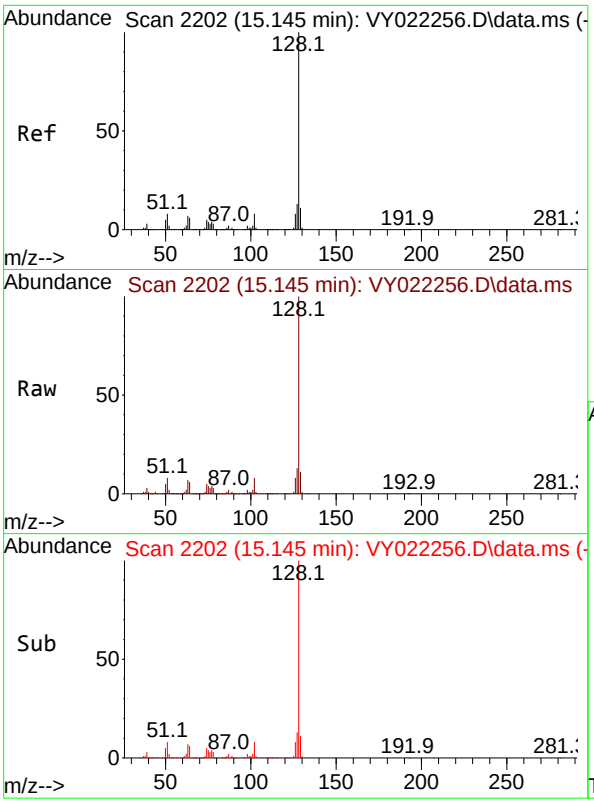


#94
Hexachlorobutadiene
Concen: 51.313 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion:225 Resp: 90452

Ion	Ratio	Lower	Upper
225	100		
223	63.0	31.5	94.5
227	64.2	32.1	96.3

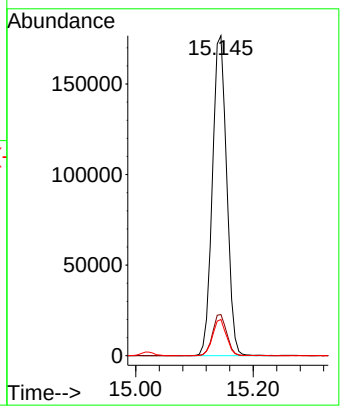




#95
Naphthalene
Concen: 49.692 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion:128 Resp: 29807

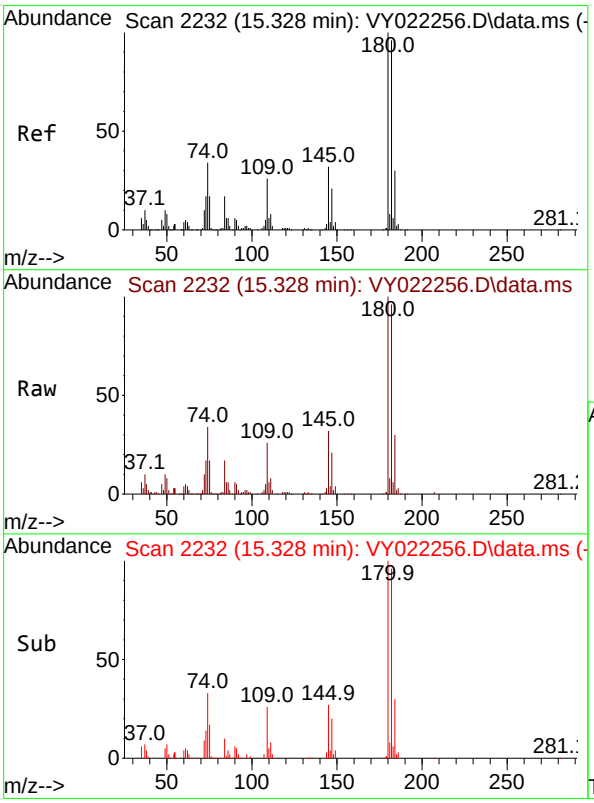
Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.2	15.2
129	11.0	8.8	13.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

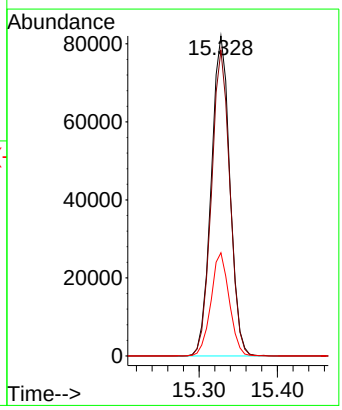
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025



#96
1,2,3-Trichlorobenzene
Concen: 50.596 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion:180 Resp: 135673

Ion	Ratio	Lower	Upper
180	100		
182	94.2	47.1	141.3
145	31.7	15.9	47.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022257.D
Acq On : 15 May 2025 11:24
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

Quant Time: May 16 01:24:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:19:39 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	7.707	168	268393	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	8.616	114	443341	50.000	ug/l		0.00
63) Chlorobenzene-d5	11.414	117	385348	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	189780	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	8.061	65	292533	99.729	ug/l		0.00
Spiked Amount 50.000	Range 50 - 163			Recovery = 199.460%#			
35) Dibromofluoromethane	7.634	113	262995	99.389	ug/l		0.00
Spiked Amount 50.000	Range 54 - 147			Recovery = 198.780%#			
50) Toluene-d8	10.103	98	1076035	99.289	ug/l		0.00
Spiked Amount 50.000	Range 58 - 134			Recovery = 198.580%#			
62) 4-Bromofluorobenzene	12.408	95	343397	99.968	ug/l		0.00
Spiked Amount 50.000	Range 30 - 143			Recovery = 199.940%#			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.861	85	252438	90.138	ug/l		99
3) Chloromethane	2.062	50	561441	95.302	ug/l		100
4) Vinyl Chloride	2.202	62	639001	97.085	ug/l		96
5) Bromomethane	2.586	94	512452	95.642	ug/l		98
6) Chloroethane	2.732	64	393556	96.113	ug/l		99
7) Trichlorofluoromethane	3.049	101	650265	97.581	ug/l		100
8) Diethyl Ether	3.452	74	158375	99.031	ug/l		99
9) 1,1,2-Trichlorotrifluo...	3.812	101	272288	94.120	ug/l		99
10) Methyl Iodide	4.000	142	349345	104.334	ug/l		100
11) Tert butyl alcohol	4.872	59	112593	502.655	ug/l	#	100
12) 1,1-Dichloroethene	3.787	96	277897	96.798	ug/l		97
13) Acrolein	3.653	56	156649	478.373	ug/l		99
14) Allyl chloride	4.378	41	500514	99.429	ug/l		100
15) Acrylonitrile	5.055	53	340325	516.458	ug/l		99
16) Acetone	3.872	43	252327	458.767	ug/l		99
17) Carbon Disulfide	4.104	76	901081	96.251	ug/l		99
18) Methyl Acetate	4.385	43	185837	111.043	ug/l		100
19) Methyl tert-butyl Ether	5.116	73	807404	101.997	ug/l		98
20) Methylene Chloride	4.610	84	305912	86.076	ug/l		98
21) trans-1,2-Dichloroethene	5.116	96	311460	98.288	ug/l		97
22) Diisopropyl ether	6.018	45	1075035	101.128	ug/l		99
23) Vinyl Acetate	5.957	43	3259000	507.456	ug/l		100
24) 1,1-Dichloroethane	5.915	63	586479	98.750	ug/l		99
25) 2-Butanone	6.890	43	467301	507.932	ug/l		97
26) 2,2-Dichloropropane	6.884	77	515990	97.682	ug/l		100
27) cis-1,2-Dichloroethene	6.890	96	368826	100.861	ug/l		100
28) Bromochloromethane	7.244	49	251676	99.349	ug/l		100
29) Tetrahydrofuran	7.262	42	312286	527.609	ug/l		100
30) Chloroform	7.421	83	565823	99.326	ug/l		98
31) Cyclohexane	7.701	56	535839	90.301	ug/l		99
32) 1,1,1-Trichloroethane	7.616	97	506927	96.995	ug/l		100
36) 1,1-Dichloropropene	7.835	75	429153	98.465	ug/l		99
37) Ethyl Acetate	6.982	43	213152	101.642	ug/l		99
38) Carbon Tetrachloride	7.817	117	451589	100.097	ug/l		98
39) Methylcyclohexane	9.109	83	566259	96.704	ug/l		98
40) Benzene	8.079	78	1313733	101.677	ug/l		100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022257.D
Acq On : 15 May 2025 11:24
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

Quant Time: May 16 01:24:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:19:39 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.219	41	131157m	85.474	ug/l		
42) 1,2-Dichloroethane	8.158	62	356974	102.165	ug/l		100
43) Isopropyl Acetate	8.195	43	473430	103.517	ug/l		99
44) Trichloroethene	8.865	130	315543	98.218	ug/l		97
45) 1,2-Dichloropropane	9.140	63	314179	100.858	ug/l		98
46) Dibromomethane	9.231	93	170712	101.606	ug/l		99
47) Bromodichloromethane	9.420	83	446829	102.514	ug/l		99
48) Methyl methacrylate	9.219	41	229512	107.308	ug/l		100
49) 1,4-Dioxane	9.231	88	37780	1990.455	ug/l		98
51) 4-Methyl-2-Pentanone	9.999	43	1218685	543.068	ug/l		100
52) Toluene	10.170	92	839400	102.593	ug/l		99
53) t-1,3-Dichloropropene	10.390	75	441672	103.832	ug/l		100
54) cis-1,3-Dichloropropene	9.853	75	498023	102.190	ug/l		99
55) 1,1,2-Trichloroethane	10.572	97	219460	102.005	ug/l		99
56) Ethyl methacrylate	10.438	69	353013	105.335	ug/l		98
57) 1,3-Dichloropropane	10.719	76	391514	102.420	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.713	63	872907	580.295	ug/l		99
59) 2-Hexanone	10.761	43	809288	537.872	ug/l		100
60) Dibromochloromethane	10.908	129	292143	104.616	ug/l		99
61) 1,2-Dibromoethane	11.011	107	207266	103.362	ug/l		99
64) Tetrachloroethene	10.646	164	343677	96.489	ug/l		99
65) Chlorobenzene	11.438	112	881086	101.346	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.517	131	307866	103.007	ug/l		99
67) Ethyl Benzene	11.517	91	1674355	102.836	ug/l		99
68) m/p-Xylenes	11.627	106	1271299	207.213	ug/l		100
69) o-Xylene	11.956	106	602390	103.777	ug/l		99
70) Styrene	11.969	104	1028498	105.038	ug/l		100
71) Bromoform	12.133	173	168679	104.561	ug/l	#	99
73) Isopropylbenzene	12.255	105	1528857	97.241	ug/l		99
74) N-amyl acetate	12.066	43	468707	104.235	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.505	83	244830	101.255	ug/l		100
76) 1,2,3-Trichloropropane	12.554	75	197600m	59.078	ug/l		
77) Bromobenzene	12.529	156	337329	100.456	ug/l		99
78) n-propylbenzene	12.597	91	1846449	97.365	ug/l		100
79) 2-Chlorotoluene	12.676	91	1026401	98.488	ug/l		99
80) 1,3,5-Trimethylbenzene	12.737	105	1233838	97.216	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.304	75	93252	98.251	ug/l		98
82) 4-Chlorotoluene	12.779	91	1061772	99.052	ug/l		99
83) tert-Butylbenzene	12.999	119	1092617	96.859	ug/l		99
84) 1,2,4-Trimethylbenzene	13.042	105	1263612	100.297	ug/l		100
85) sec-Butylbenzene	13.176	105	1634720	97.623	ug/l		100
86) p-Isopropyltoluene	13.291	119	1424684	101.161	ug/l		99
87) 1,3-Dichlorobenzene	13.285	146	697868	101.803	ug/l		99
88) 1,4-Dichlorobenzene	13.365	146	654104	99.199	ug/l		99
89) n-Butylbenzene	13.615	91	1310061	98.327	ug/l		99
90) Hexachloroethane	13.877	117	275652	96.961	ug/l		100
91) 1,2-Dichlorobenzene	13.657	146	576915	100.192	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	41275	105.859	ug/l		95
93) 1,2,4-Trichlorobenzene	14.919	180	342939	103.107	ug/l		100
94) Hexachlorobutadiene	15.023	225	180060	97.075	ug/l		100
95) Naphthalene	15.145	128	674950	106.935	ug/l		100
96) 1,2,3-Trichlorobenzene	15.328	180	294823	104.488	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022257.D
Acq On : 15 May 2025 11:24
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

Quant Time: May 16 01:24:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:19:39 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

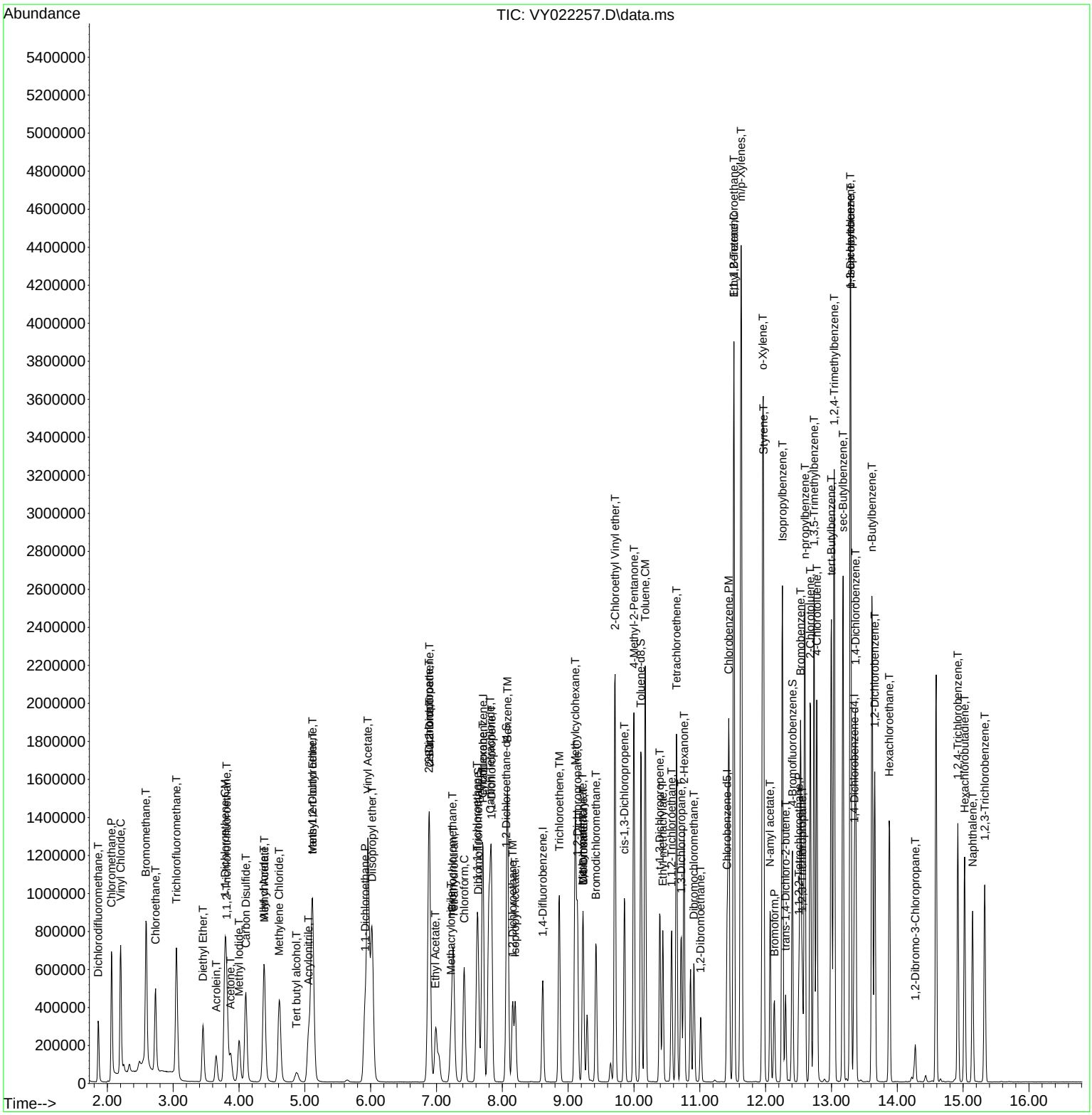
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022257.D
Acq On : 15 May 2025 11:24
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

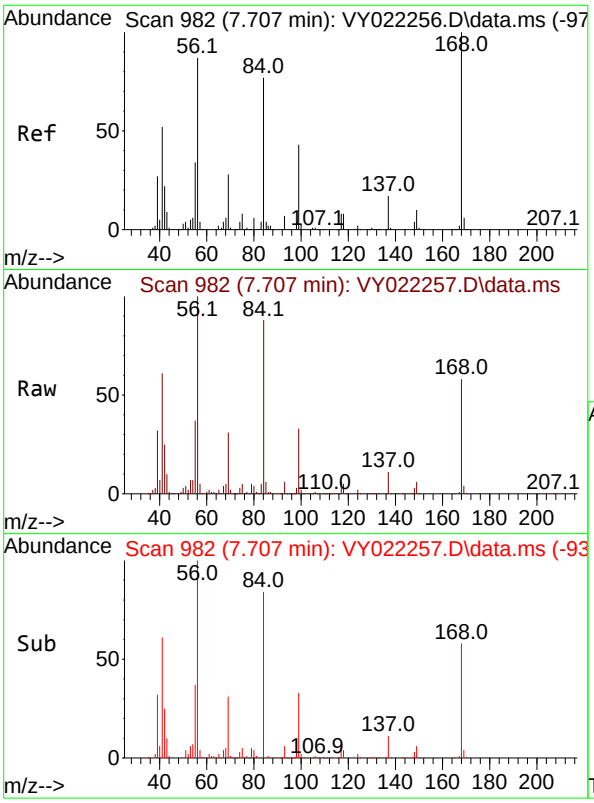
Quant Time: May 16 01:24:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:19:39 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

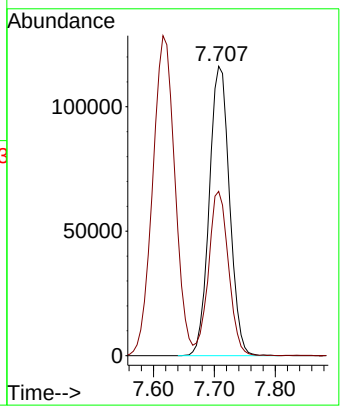




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion:168 Resp: 26839

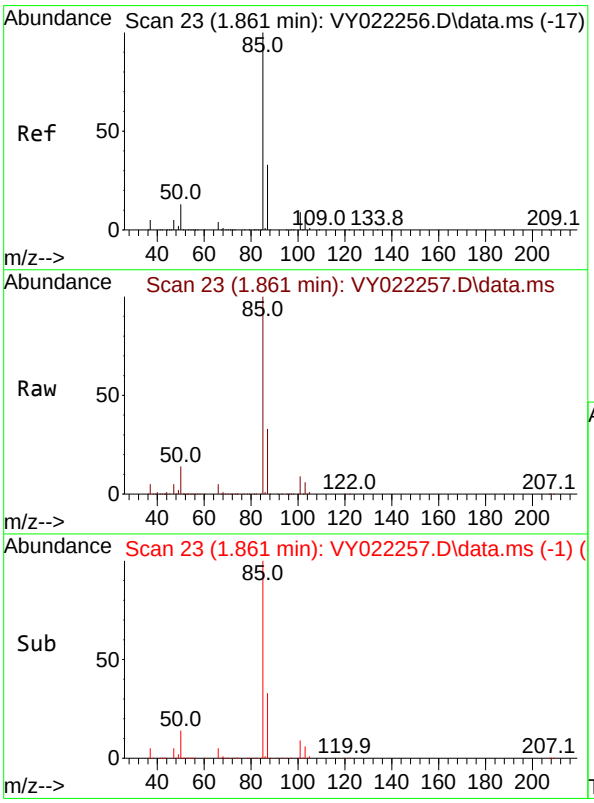
Ion	Ratio	Lower	Upper
168	100		
99	56.7	44.2	66.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

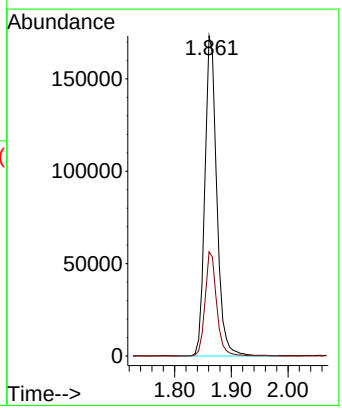
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

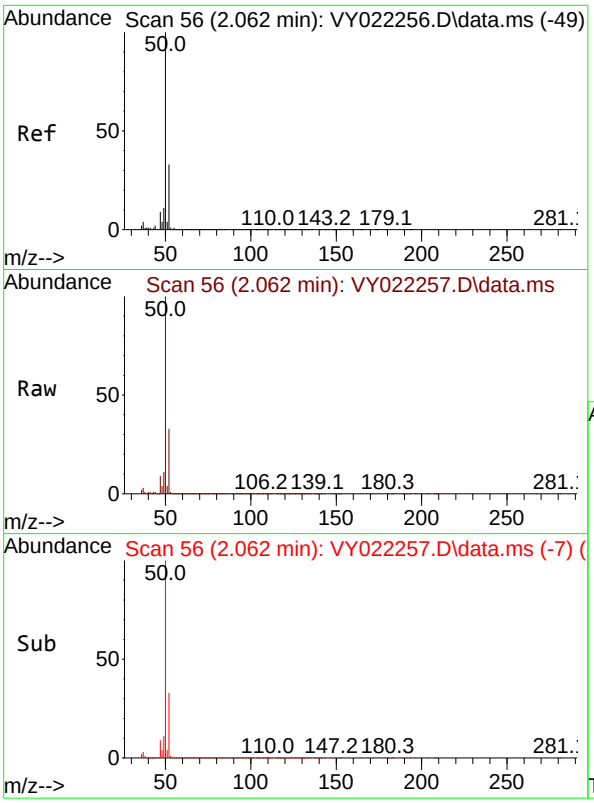


#2
Dichlorodifluoromethane
Concen: 90.138 ug/l
RT: 1.861 min Scan# 23
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 85 Resp: 252438

Ion	Ratio	Lower	Upper
85	100		
87	32.6	16.5	49.5

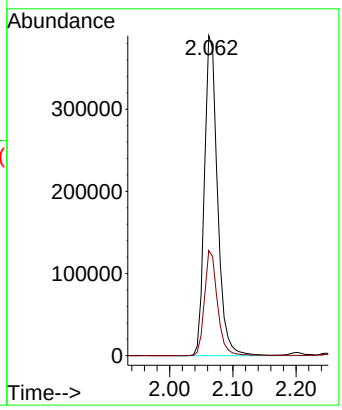




#3
Chloromethane
Concen: 95.302 ug/l
RT: 2.062 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 50 Resp: 56144

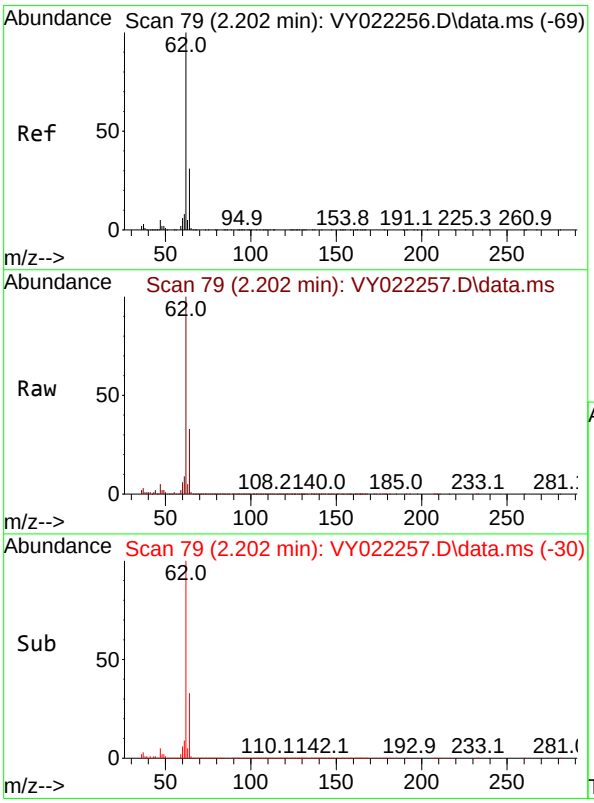
Ion	Ratio	Lower	Upper
50	100		
52	32.9	26.5	39.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

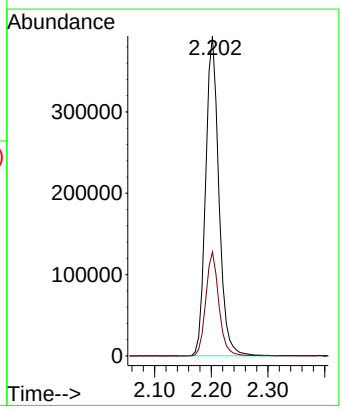
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

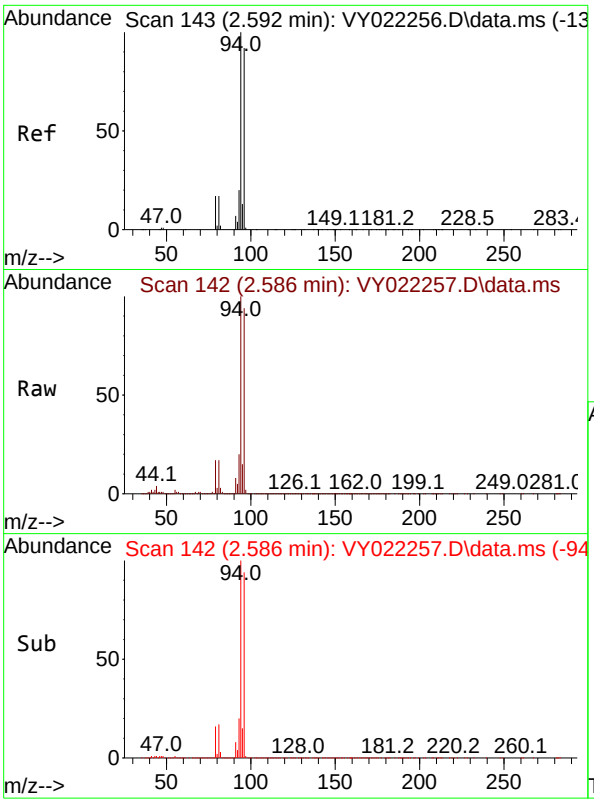


#4
Vinyl Chloride
Concen: 97.085 ug/l
RT: 2.202 min Scan# 79
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 62 Resp: 639001

Ion	Ratio	Lower	Upper
62	100		
64	32.5	24.5	36.7

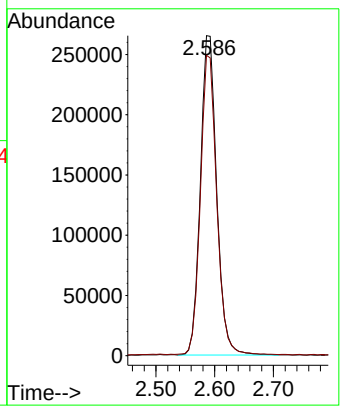




#5
Bromomethane
Concen: 95.642 ug/l
RT: 2.586 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 94 Resp: 51245

Ion	Ratio	Lower	Upper
94	100		
96	93.7	73.4	110.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

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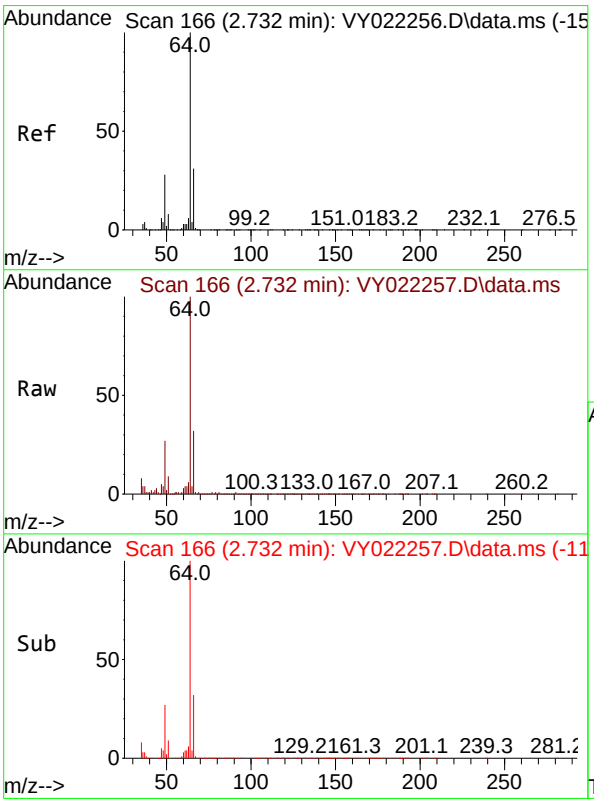
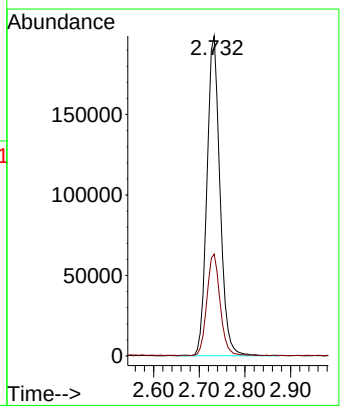
Supervised By :Semsettin Yesilyurt 05/16/2025

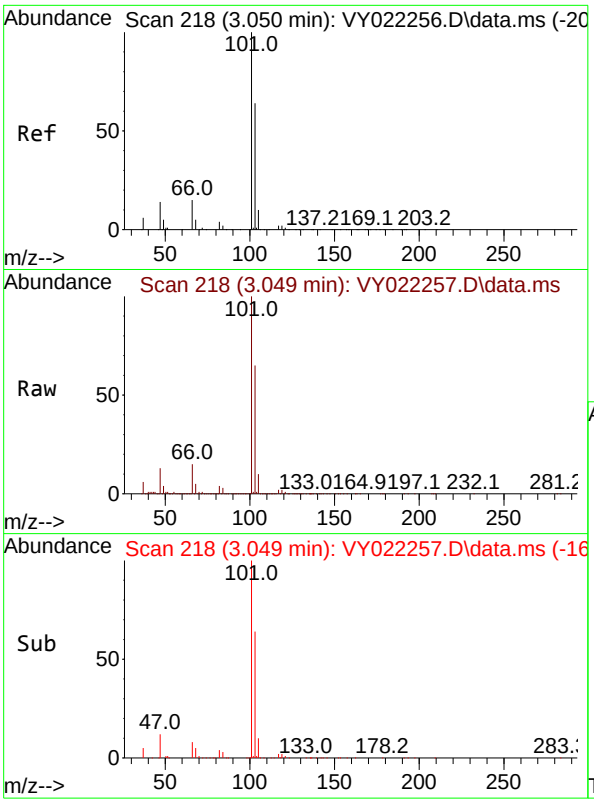


#6
Chloroethane
Concen: 96.113 ug/l
RT: 2.732 min Scan# 166
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 64 Resp: 393556

Ion	Ratio	Lower	Upper
64	100		
66	31.7	24.8	37.2

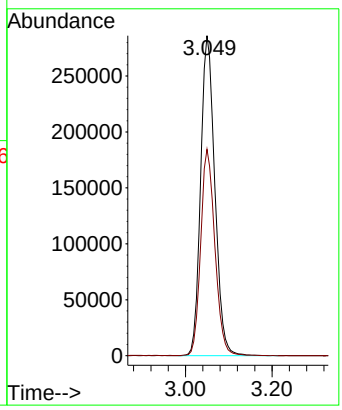




#7
Trichlorofluoromethane
Concen: 97.581 ug/l
RT: 3.049 min Scan# 21
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion:101 Resp: 65026

Ion	Ratio	Lower	Upper
101	100		
103	64.5	51.7	77.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
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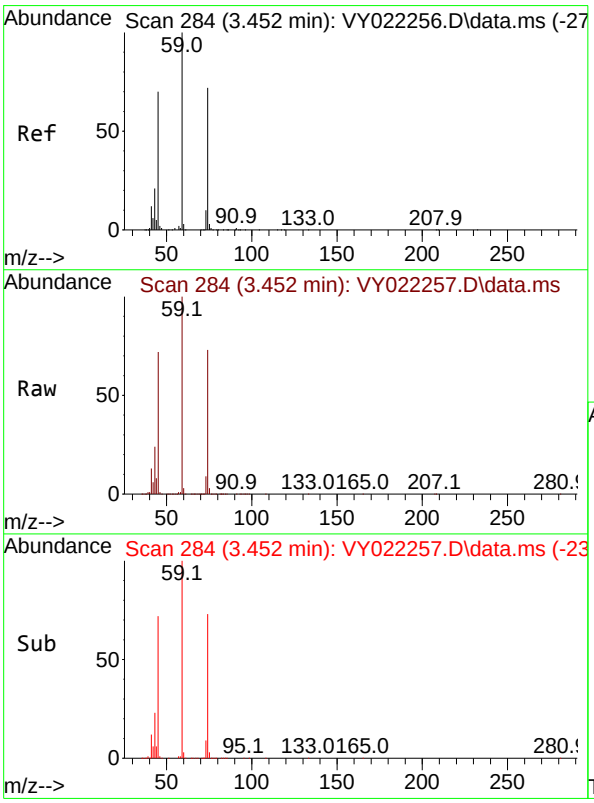
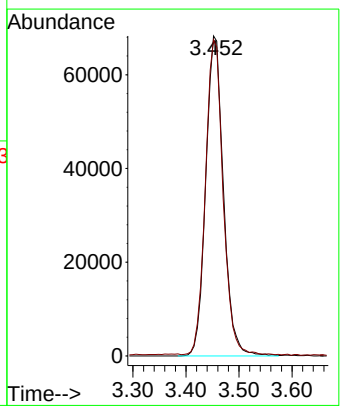
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

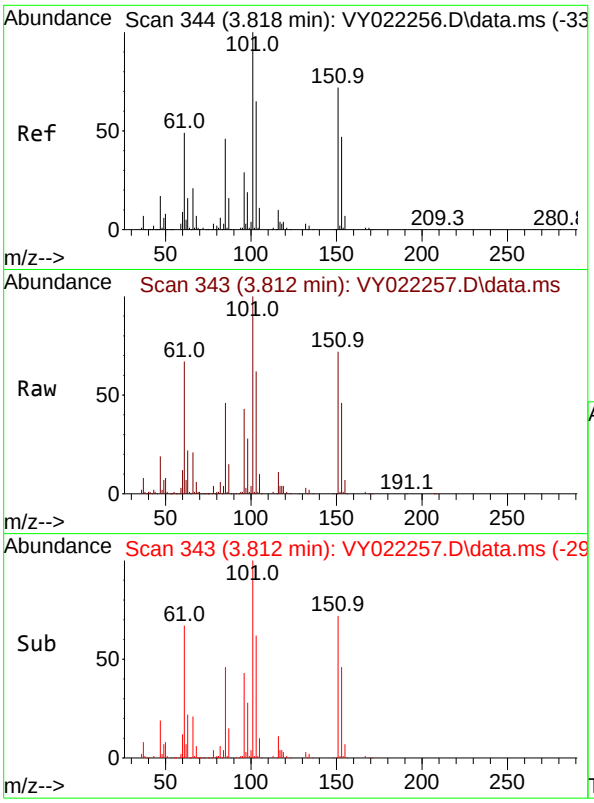


#8
Diethyl Ether
Concen: 99.031 ug/l
RT: 3.452 min Scan# 284
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 74 Resp: 158375

Ion	Ratio	Lower	Upper
74	100		
45	97.9	48.6	145.8

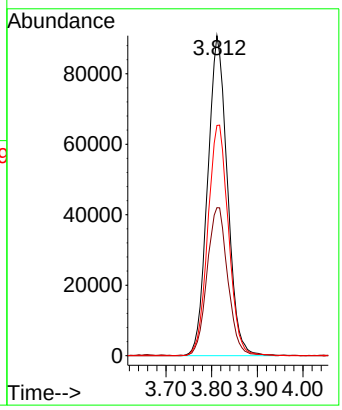




#9
1,1,2-Trichlorotrifluoroethane
Concen: 94.120 ug/l
RT: 3.812 min Scan# 3
Delta R.T. -0.006 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion:101 Resp: 27228

Ion	Ratio	Lower	Upper
101	100		
85	48.8	38.6	58.0
151	75.3	59.7	89.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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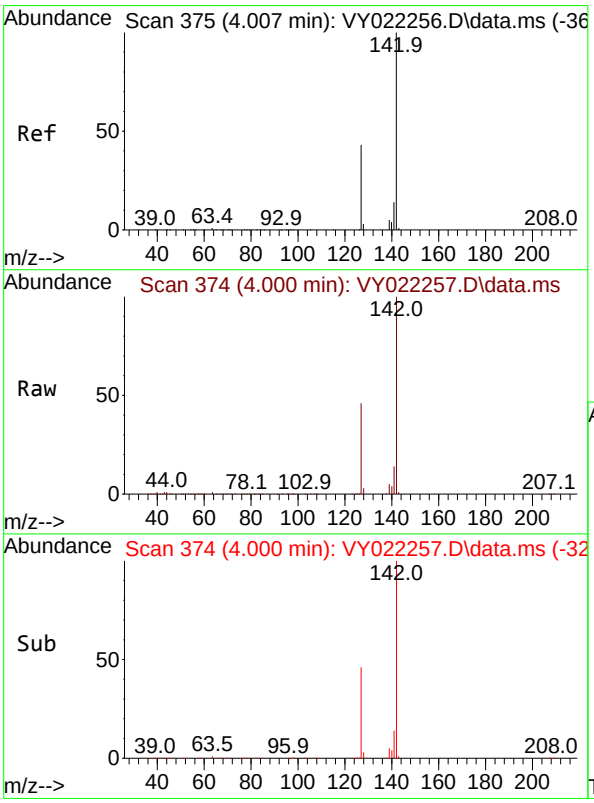
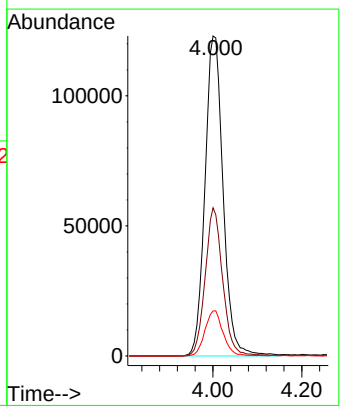
Supervised By :Semsettin Yesilyurt 05/16/2025

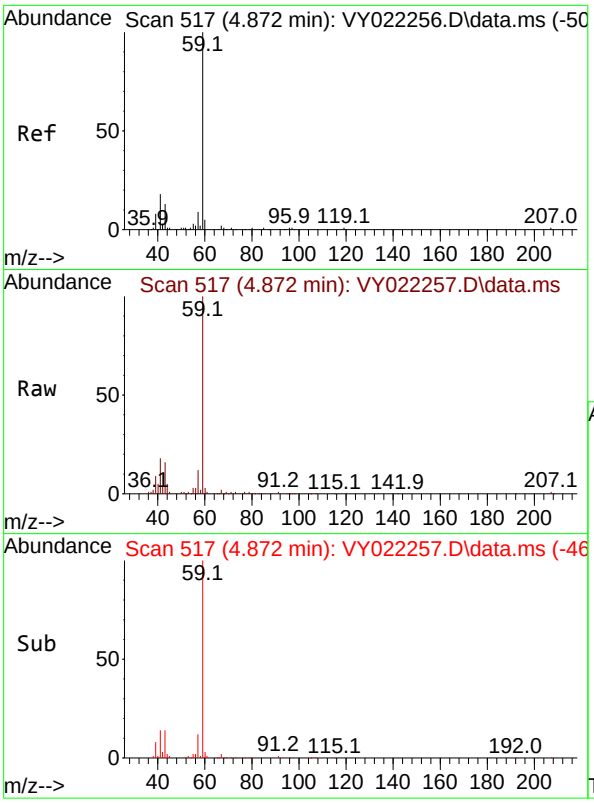


#10
Methyl Iodide
Concen: 104.334 ug/l
RT: 4.000 min Scan# 374
Delta R.T. -0.006 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion:142 Resp: 349345

Ion	Ratio	Lower	Upper
142	100		
127	44.8	35.7	53.5
141	14.1	11.1	16.7

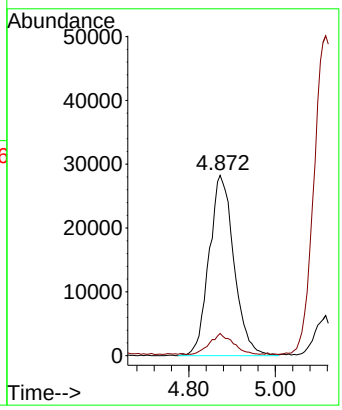




#11
Tert butyl alcohol
Concen: 502.655 ug/l
RT: 4.872 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 59 Resp: 11259

Ion	Ratio	Lower	Upper
59	100		
57	10.6	0.0	0.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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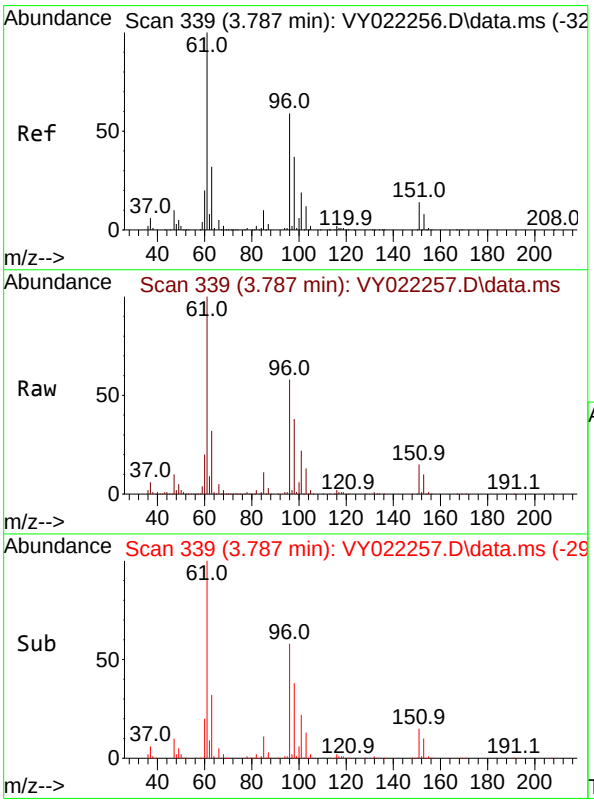
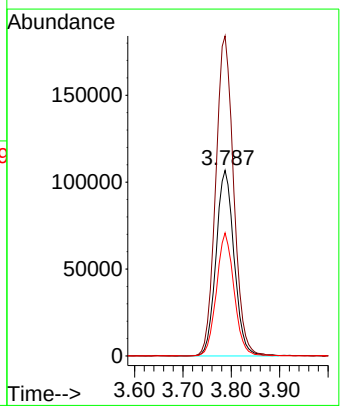
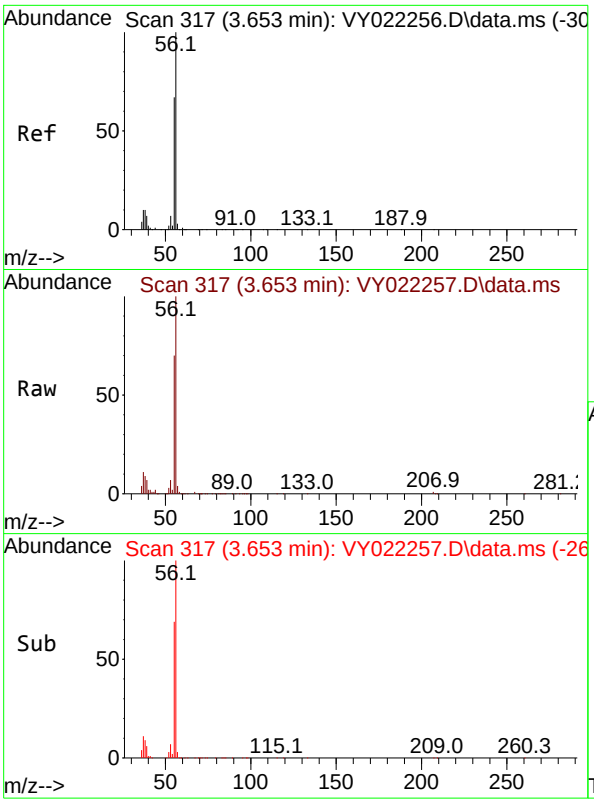


#12
1,1-Dichloroethene
Concen: 96.798 ug/l
RT: 3.787 min Scan# 339
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 96 Resp: 277897

Ion	Ratio	Lower	Upper
96	100		
61	172.4	134.9	202.3
98	66.2	49.9	74.9

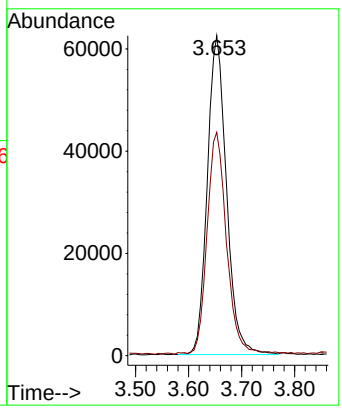




#13
Acrolein
Concen: 478.373 ug/l
RT: 3.653 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 56 Resp: 15664

Ion	Ratio	Lower	Upper
56	100		
55	70.4	55.6	83.4



Instrument :
MSVOA_Y
ClientSampleId :
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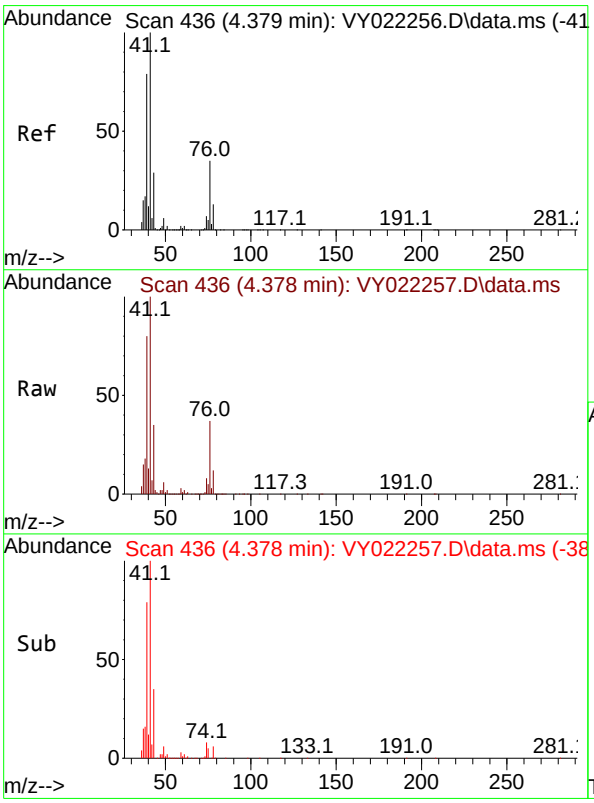
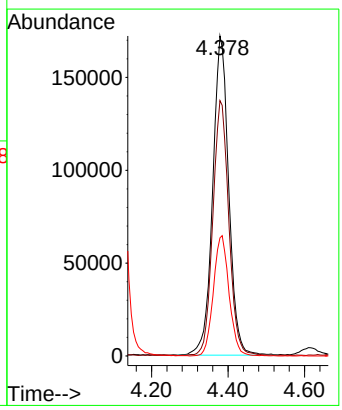
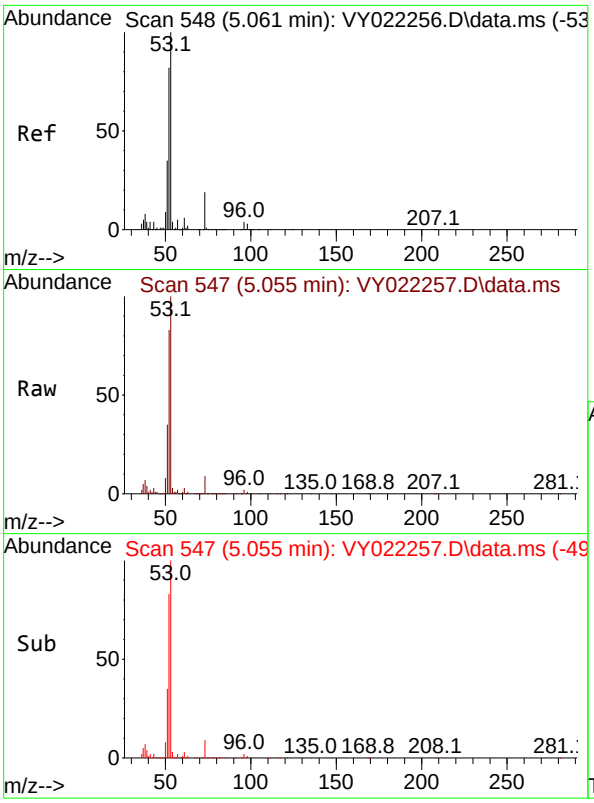


#14
Allyl chloride
Concen: 99.429 ug/l
RT: 4.378 min Scan# 436
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 41 Resp: 500514

Ion	Ratio	Lower	Upper
41	100		
39	79.4	63.4	95.0
76	36.9	29.5	44.3

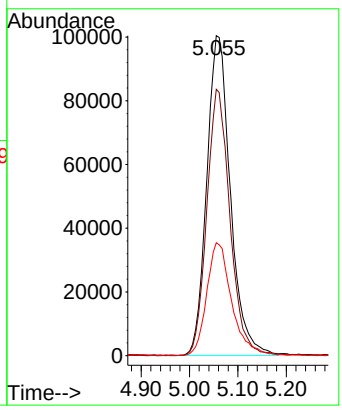




#15
Acrylonitrile
Concen: 516.458 ug/l
RT: 5.055 min Scan# 54
Delta R.T. -0.006 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 53 Resp: 34032

Ion	Ratio	Lower	Upper
53	100		
52	81.9	66.1	99.1
51	37.4	30.0	45.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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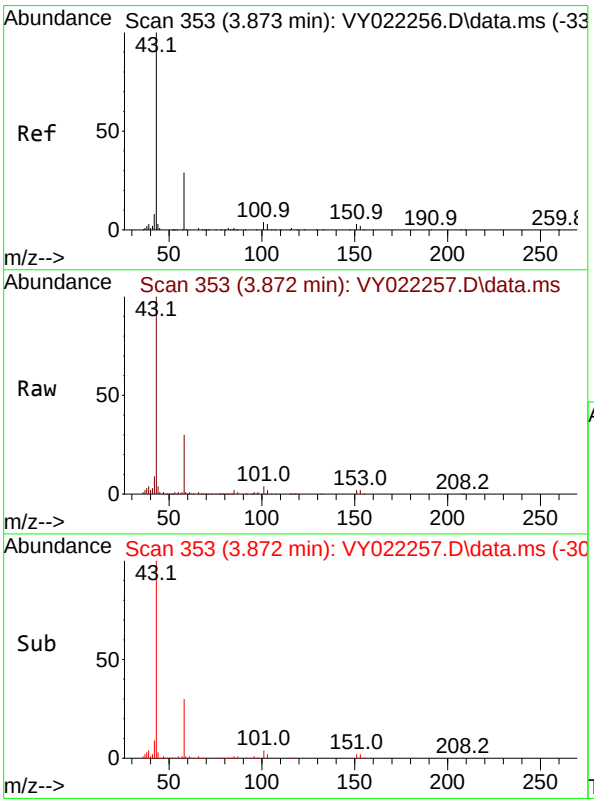
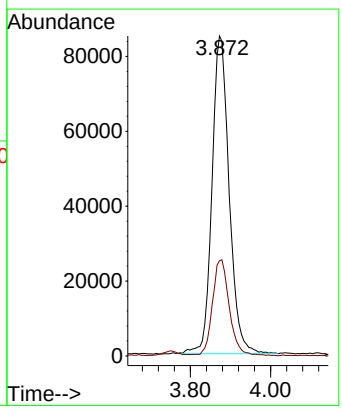
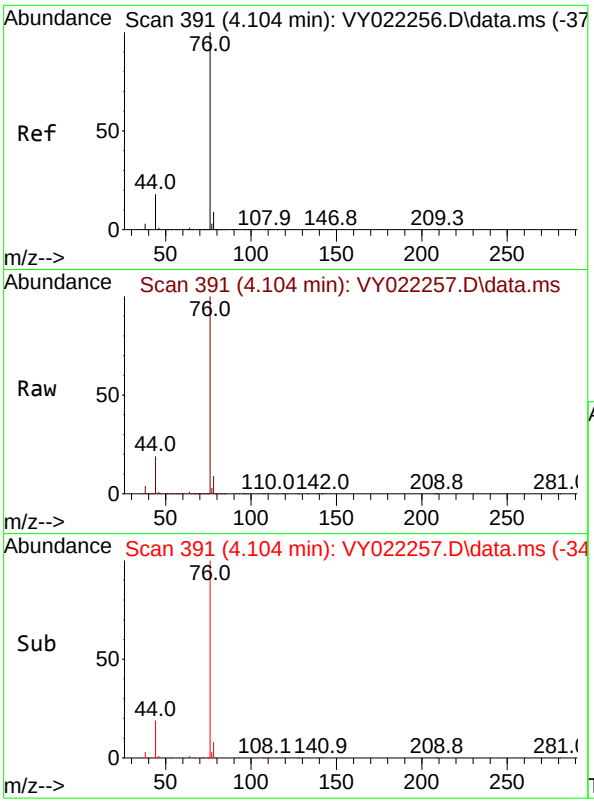


#16
Acetone
Concen: 458.767 ug/l
RT: 3.872 min Scan# 353
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 43 Resp: 252327

Ion	Ratio	Lower	Upper
43	100		
58	29.9	23.6	35.4

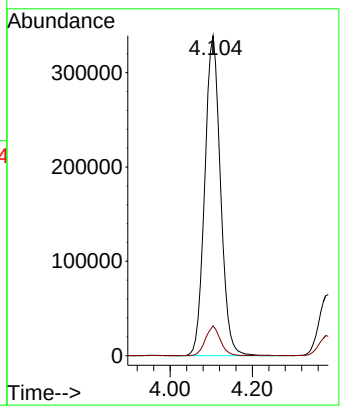




#17
Carbon Disulfide
Concen: 96.251 ug/l
RT: 4.104 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 76 Resp: 90108

Ion	Ratio	Lower	Upper
76	100		
78	9.3	7.2	10.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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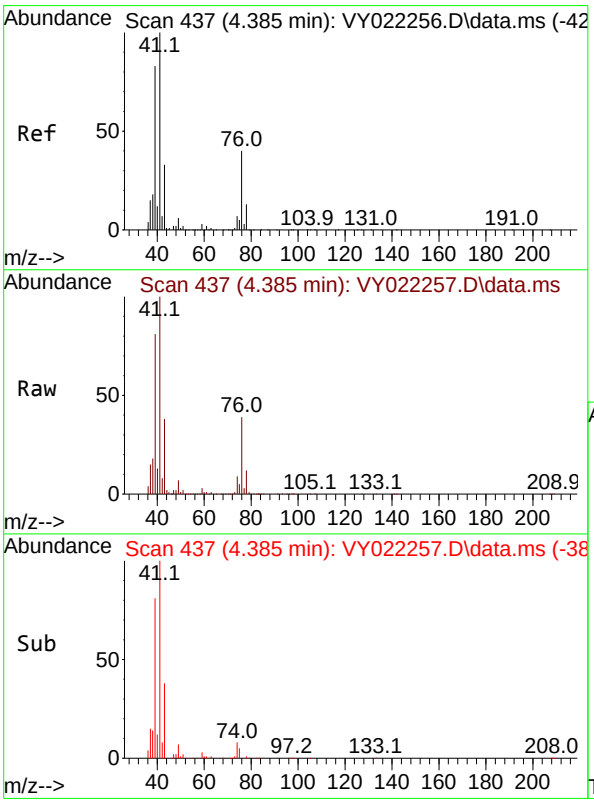
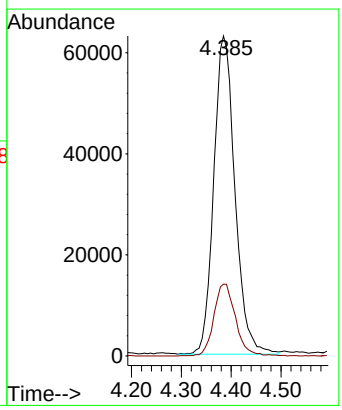
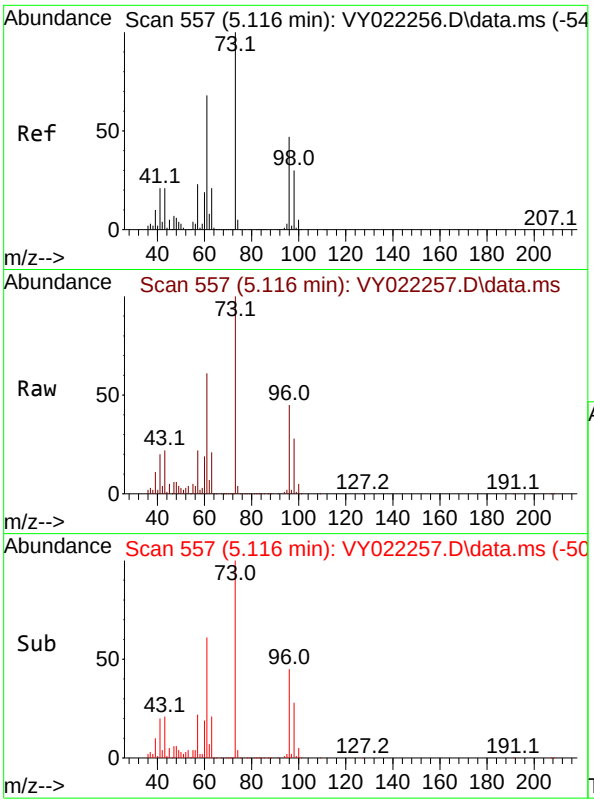


#18
Methyl Acetate
Concen: 111.043 ug/l
RT: 4.385 min Scan# 437
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 43 Resp: 185837

Ion	Ratio	Lower	Upper
43	100		
74	22.9	18.2	27.4

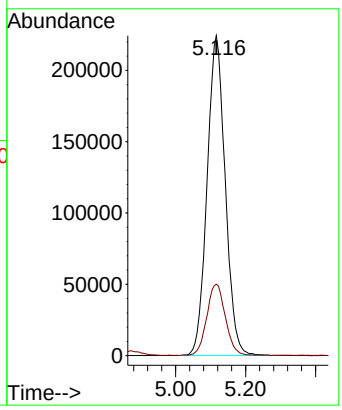




#19
Methyl tert-butyl Ether
Concen: 101.997 ug/l
RT: 5.116 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 73 Resp: 80740

Ion	Ratio	Lower	Upper
73	100		
57	22.3	18.6	28.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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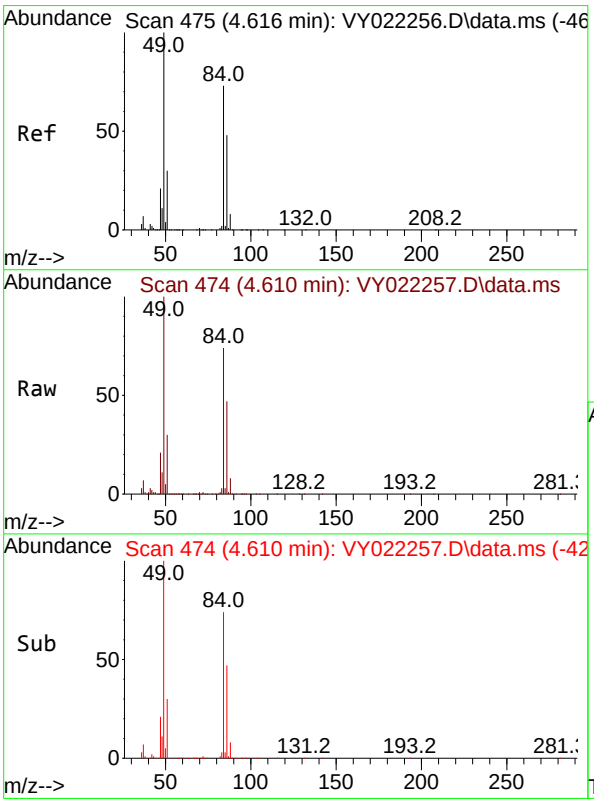
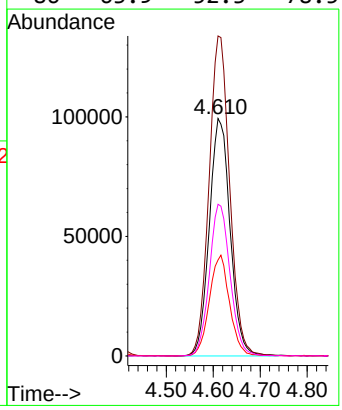
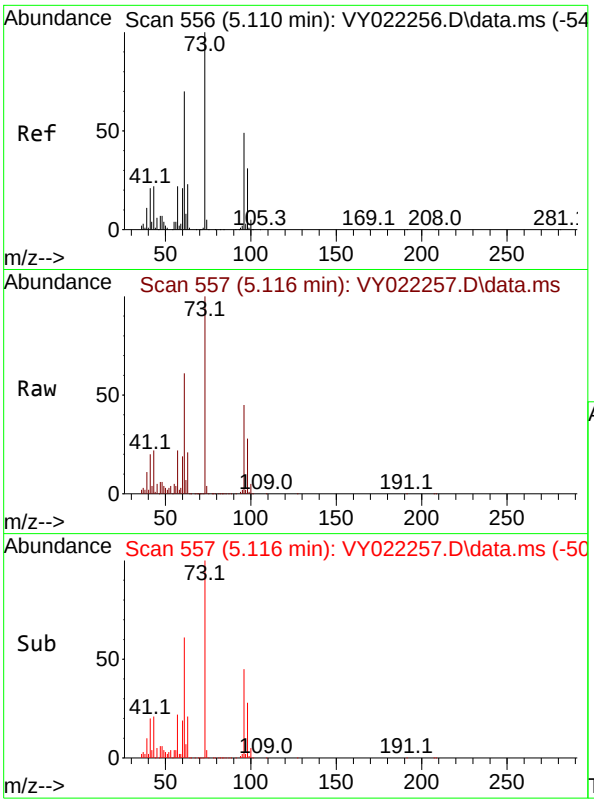


#20
Methylene Chloride
Concen: 86.076 ug/l
RT: 4.610 min Scan# 474
Delta R.T. -0.006 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 84 Resp: 305912

Ion	Ratio	Lower	Upper
84	100		
49	134.8	109.6	164.4
51	40.3	32.4	48.6
86	63.9	52.3	78.5

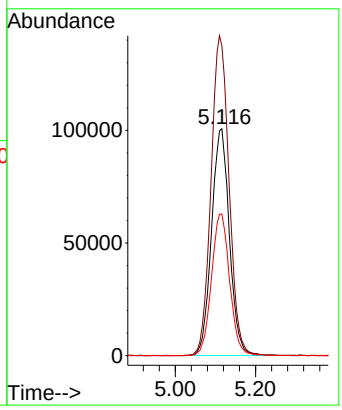




#21
trans-1,2-Dichloroethene
Concen: 98.288 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 96 Resp: 31146

Ion	Ratio	Lower	Upper
96	100		
61	136.7	113.4	170.0
98	62.4	50.9	76.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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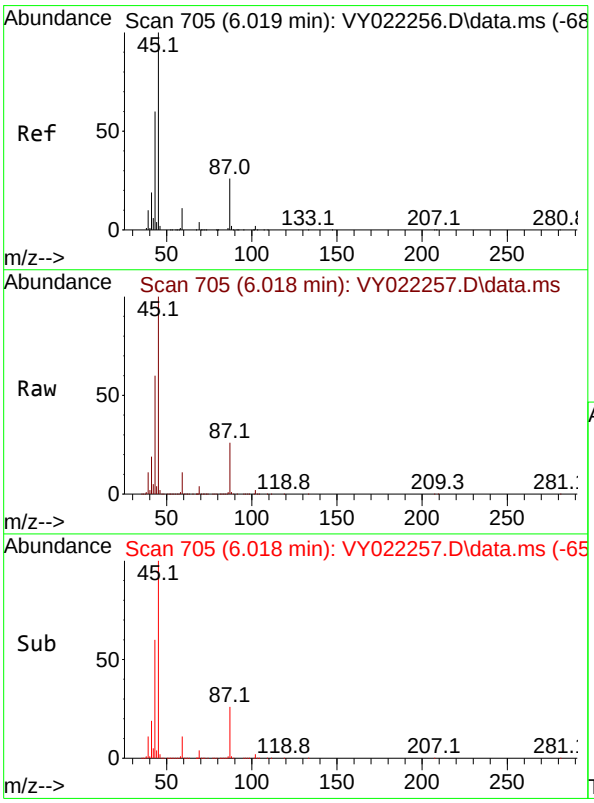
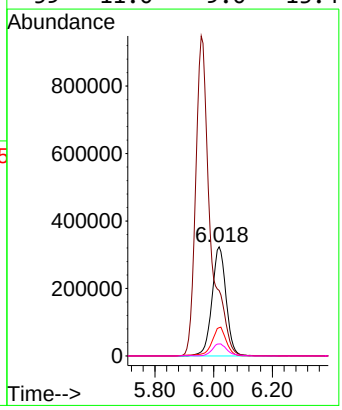
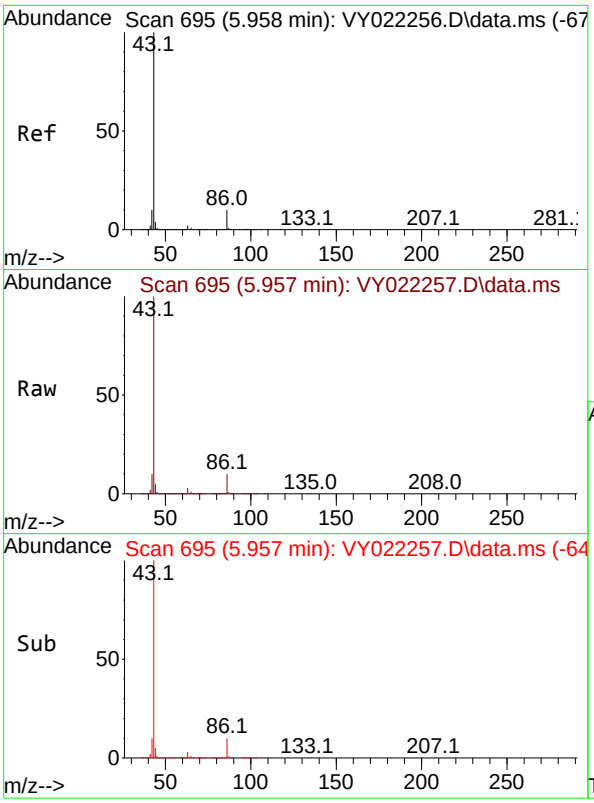


#22
Diisopropyl ether
Concen: 101.128 ug/l
RT: 6.018 min Scan# 705
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 45 Resp: 1075035

Ion	Ratio	Lower	Upper
45	100		
43	59.8	48.2	72.2
87	25.9	21.4	32.0
59	11.0	9.0	13.4

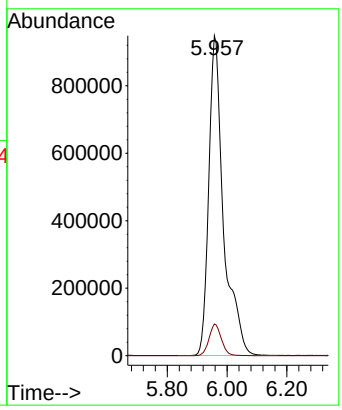




#23
Vinyl Acetate
Concen: 507.456 ug/l
RT: 5.957 min Scan# 6
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 43 Resp: 325900

Ion	Ratio	Lower	Upper
43	100		
86	9.9	7.8	11.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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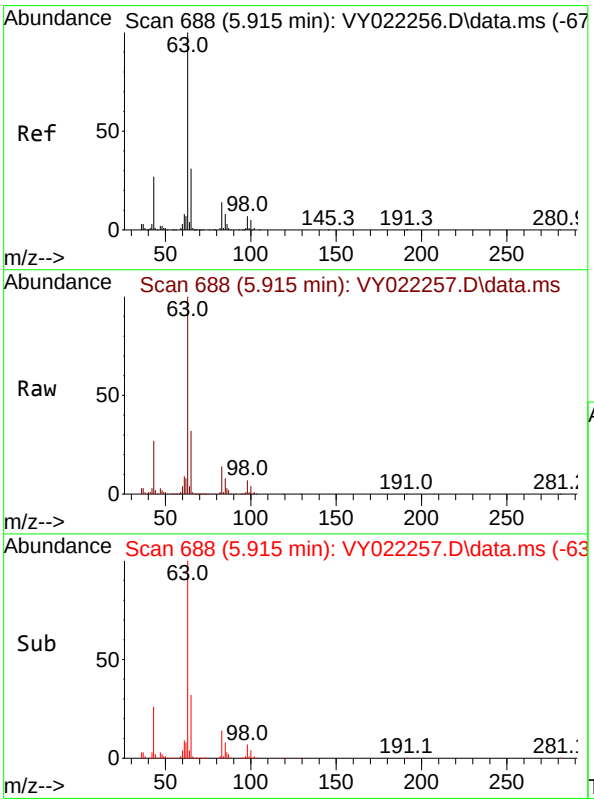
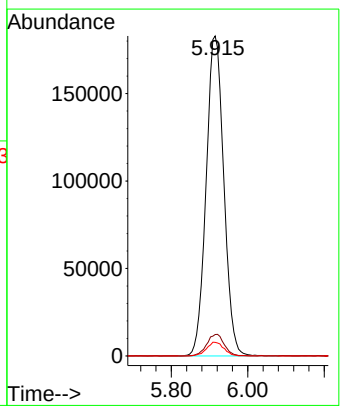
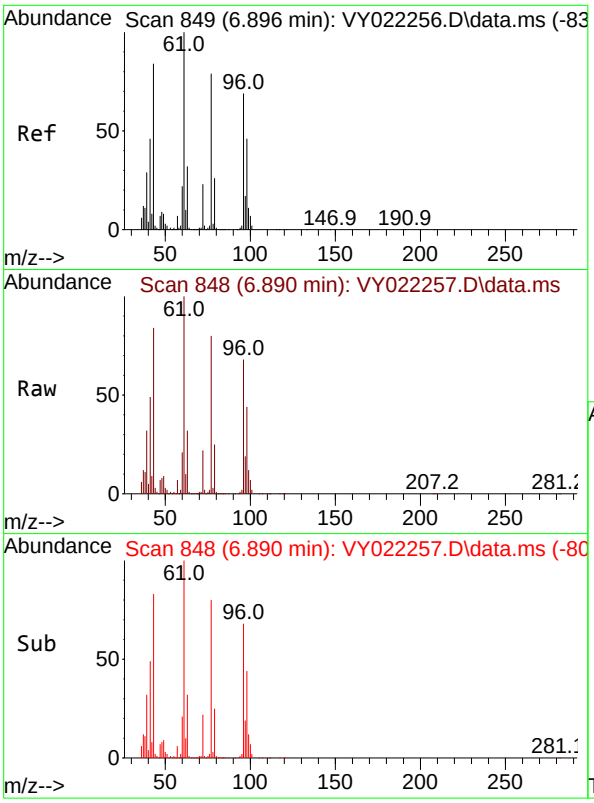


#24
1,1-Dichloroethane
Concen: 98.750 ug/l
RT: 5.915 min Scan# 688
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 63 Resp: 586479

Ion	Ratio	Lower	Upper
63	100		
98	6.7	3.5	10.5
100	4.2	2.4	7.2





#25
2-Butanone
Concen: 507.932 ug/l
RT: 6.890 min Scan# 84
Delta R.T. -0.006 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 43 Resp: 46730

Ion	Ratio	Lower	Upper
43	100		
72	25.8	22.1	33.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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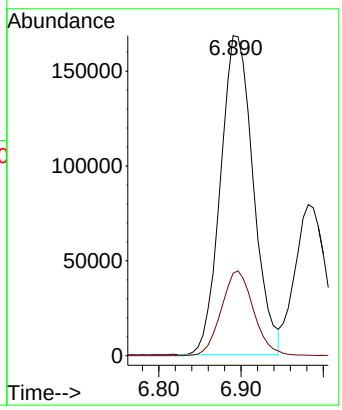
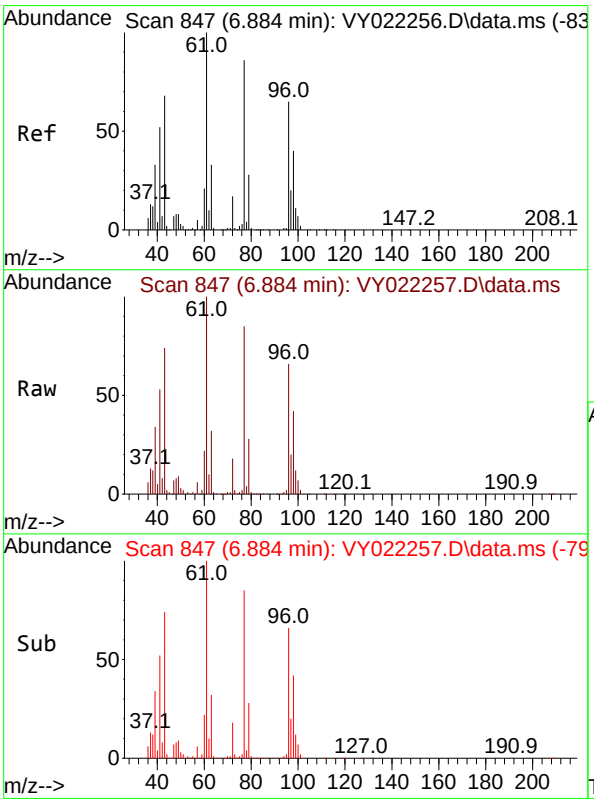
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

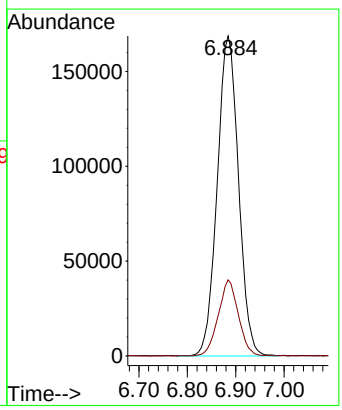


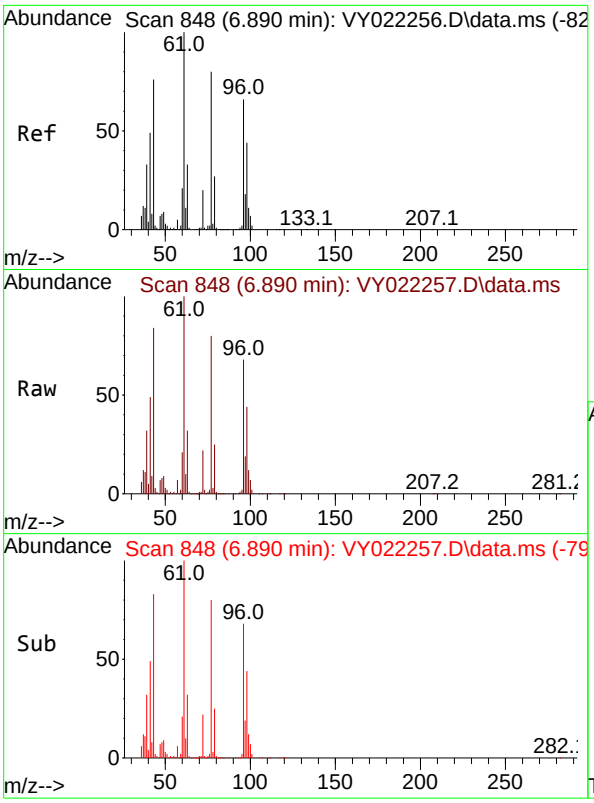


#26
2,2-Dichloropropane
Concen: 97.682 ug/l
RT: 6.884 min Scan# 847
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 77 Resp: 515990

Ion	Ratio	Lower	Upper
77	100		
97	22.5	11.2	33.5





#27
cis-1,2-Dichloroethene
Concen: 100.861 ug/l
RT: 6.890 min Scan# 84
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 96 Resp: 36882

Ion	Ratio	Lower	Upper
96	100		
61	152.0	0.0	302.6
98	64.6	0.0	128.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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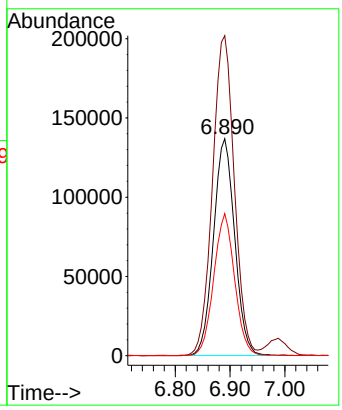
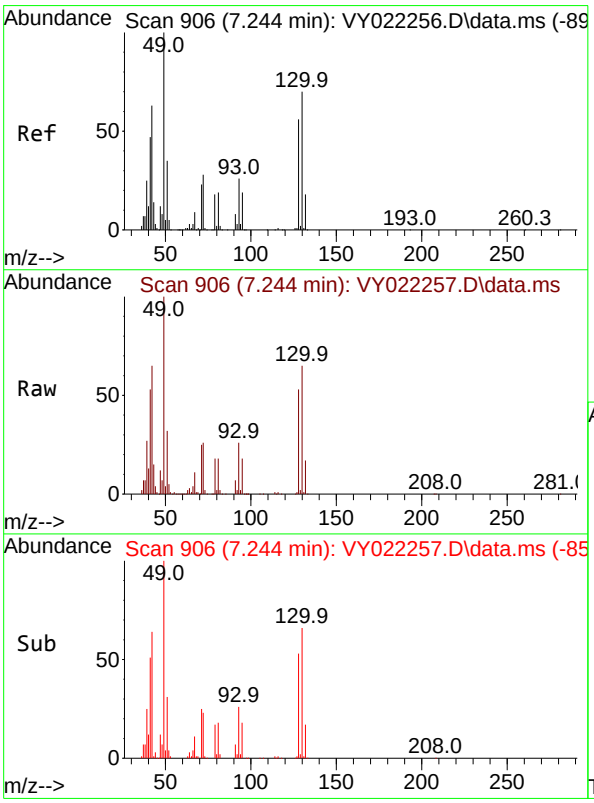
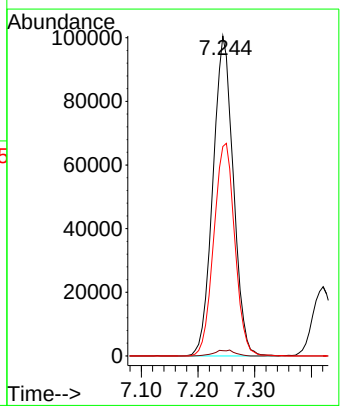


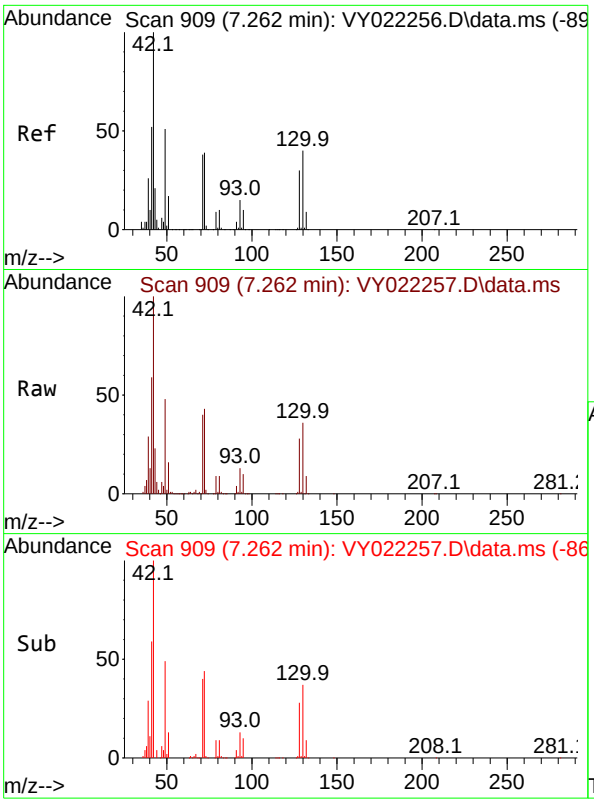


#28
Bromochloromethane
Concen: 99.349 ug/l
RT: 7.244 min Scan# 906
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 49 Resp: 251676

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	3.6
130	68.4	54.7	82.1

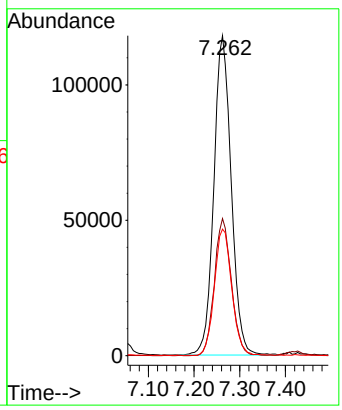




#29
Tetrahydrofuran
Concen: 527.609 ug/l
RT: 7.262 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 42 Resp: 31228

Ion	Ratio	Lower	Upper
42	100		
72	42.0	33.8	50.6
71	39.4	31.5	47.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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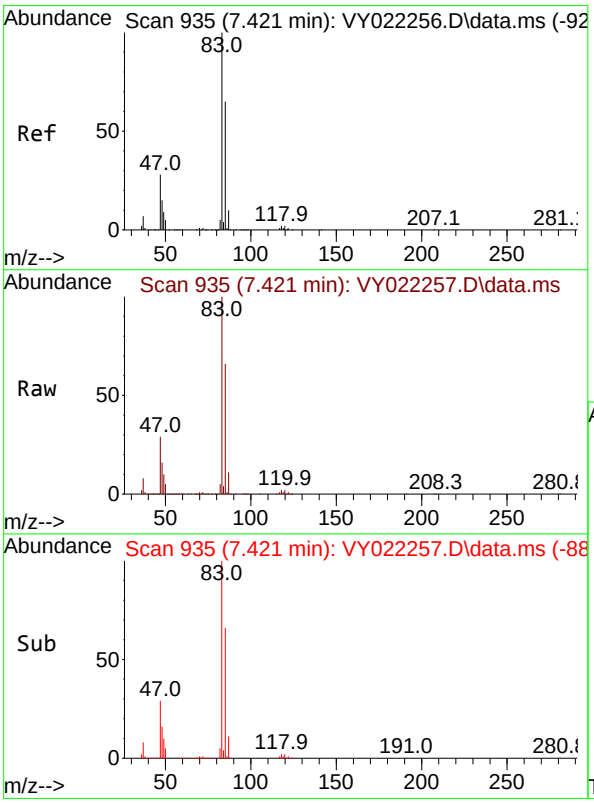
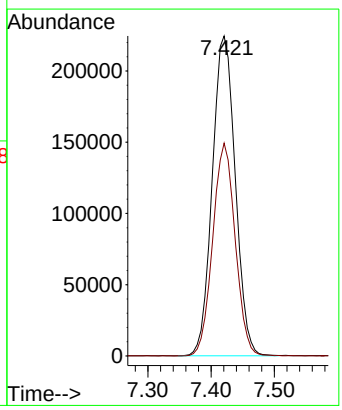
Supervised By :Semsettin Yesilyurt 05/16/2025

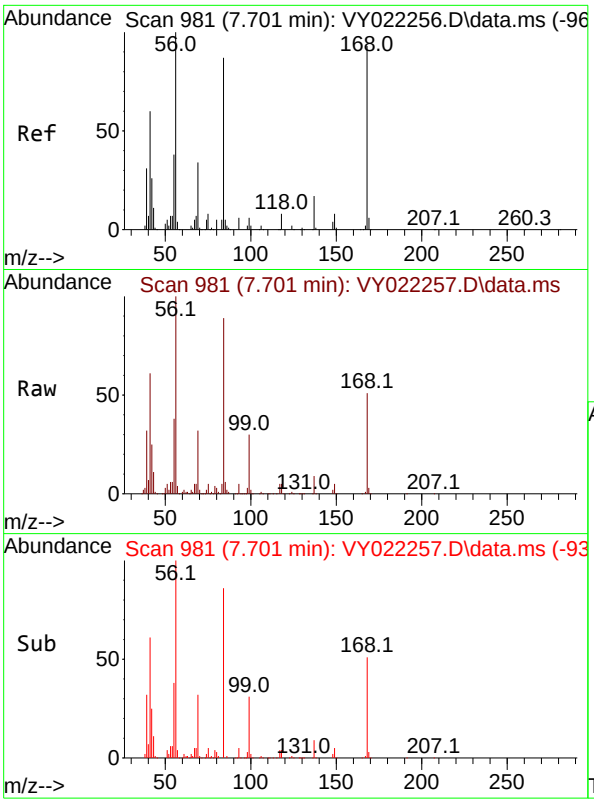


#30
Chloroform
Concen: 99.326 ug/l
RT: 7.421 min Scan# 935
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 83 Resp: 565823

Ion	Ratio	Lower	Upper
83	100		
85	66.5	51.8	77.8

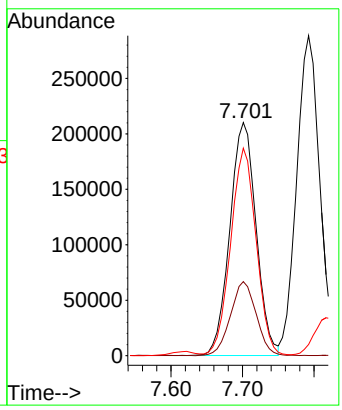




#31
Cyclohexane
Concen: 90.301 ug/l
RT: 7.701 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 56 Resp: 53583

Ion	Ratio	Lower	Upper
56	100		
69	31.8	27.4	41.2
84	87.6	70.0	105.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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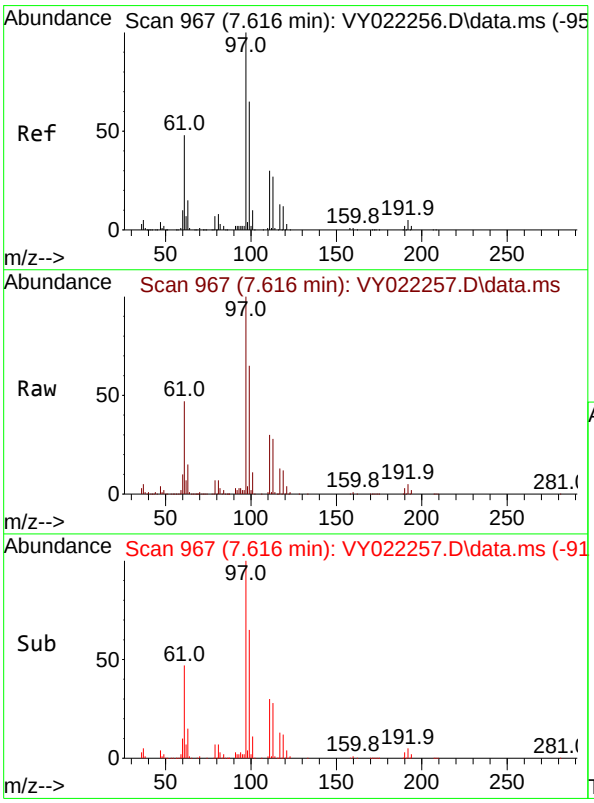
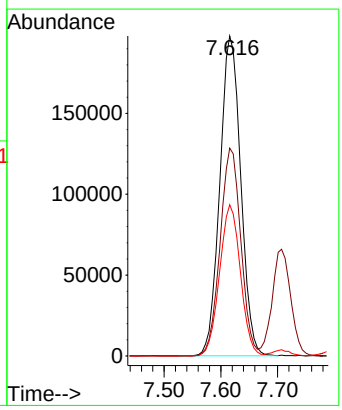
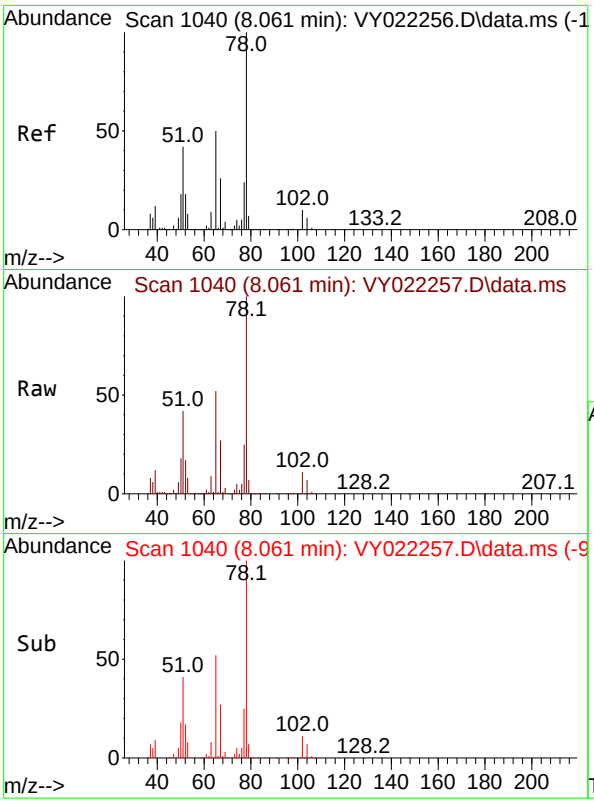


#32
1,1,1-Trichloroethane
Concen: 96.995 ug/l
RT: 7.616 min Scan# 967
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 97 Resp: 506927

Ion	Ratio	Lower	Upper
97	100		
99	64.4	51.4	77.0
61	47.1	38.1	57.1

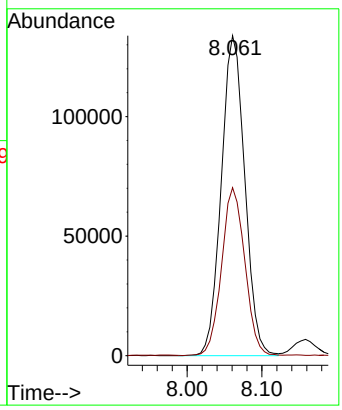




#33
1,2-Dichloroethane-d4
Concen: 99.729 ug/l
RT: 8.061 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 65 Resp: 29253

Ion	Ratio	Lower	Upper
65	100		
67	51.8	0.0	104.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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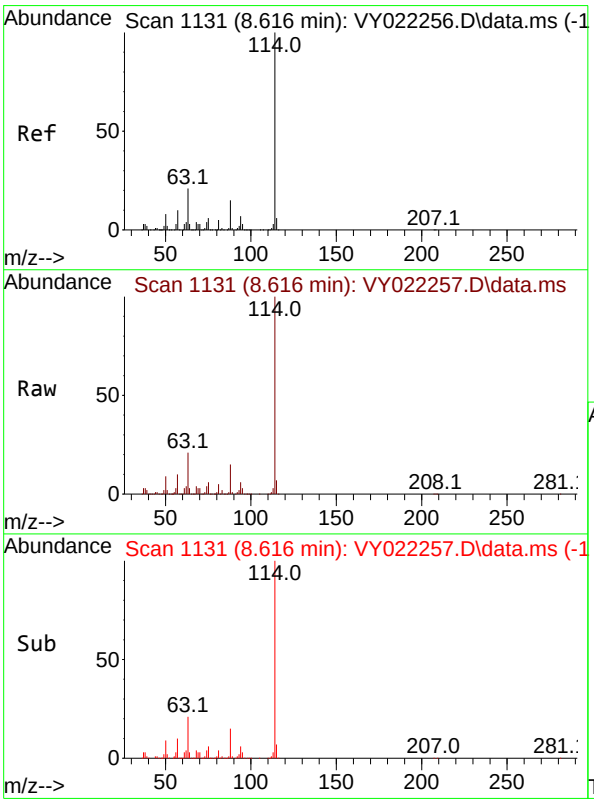
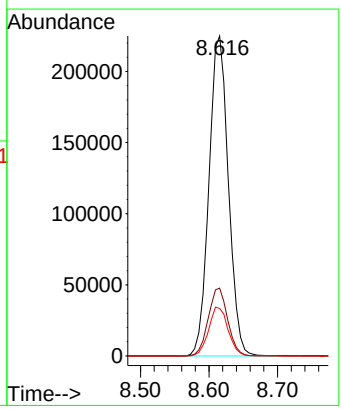
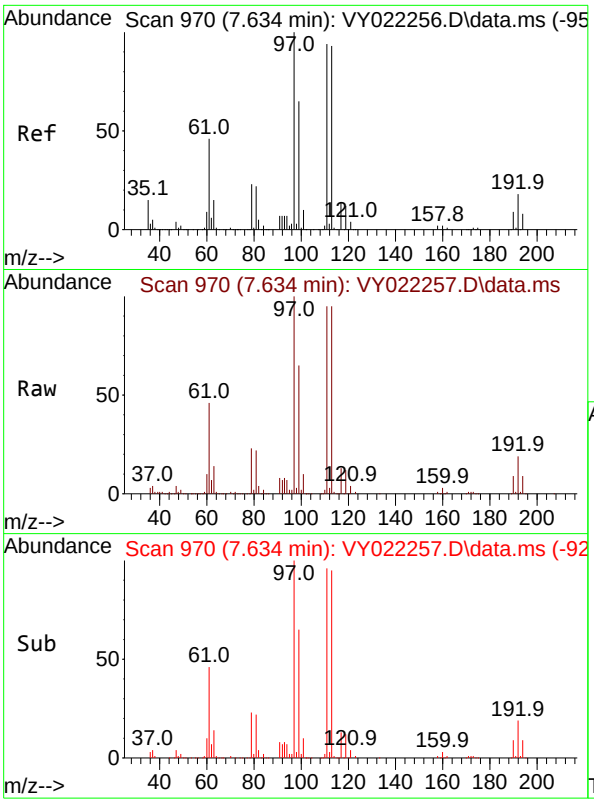


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion:114 Resp: 443341

Ion	Ratio	Lower	Upper
114	100		
63	21.2	0.0	41.0
88	14.9	0.0	29.4

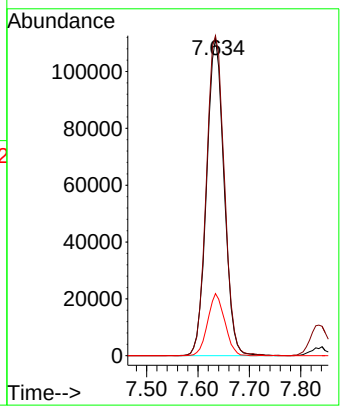




#35
Dibromofluoromethane
Concen: 99.389 ug/l
RT: 7.634 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion:113 Resp: 26299

Ion	Ratio	Lower	Upper
113	100		
111	103.9	82.6	123.8
192	19.2	15.2	22.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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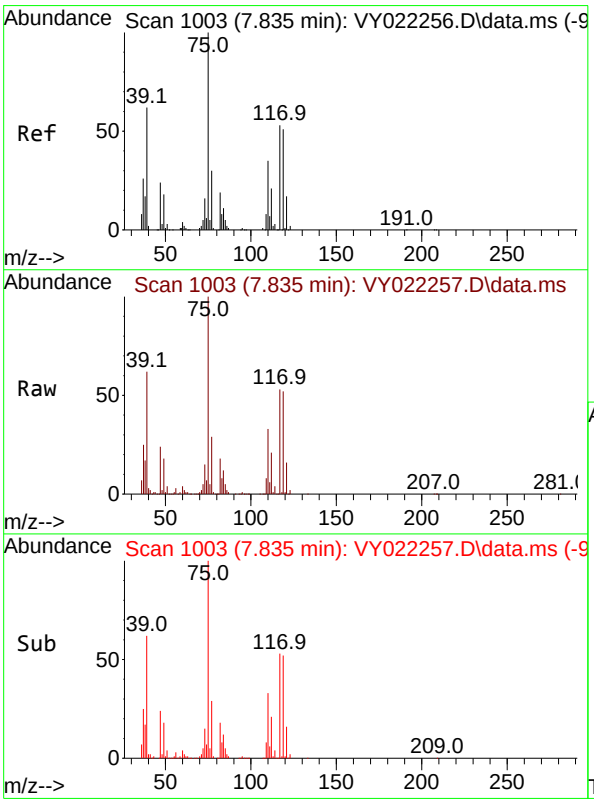
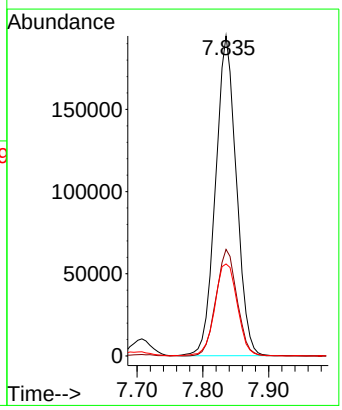
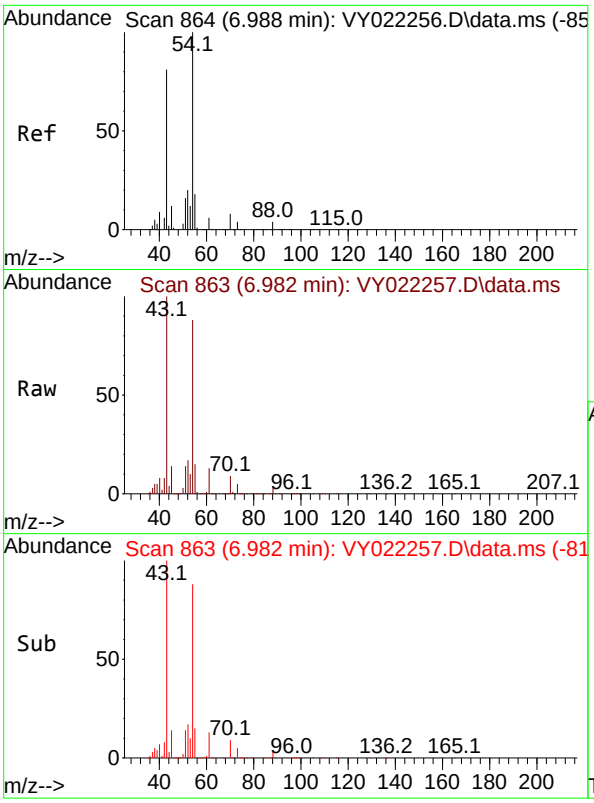


#36
1,1-Dichloropropene
Concen: 98.465 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 75 Resp: 429153

Ion	Ratio	Lower	Upper
75	100		
110	33.5	16.6	49.8
77	31.2	24.6	37.0

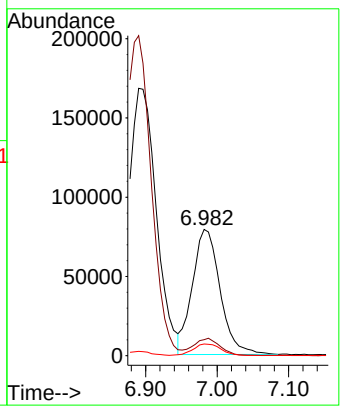




#37
Ethyl Acetate
Concen: 101.642 ug/l
RT: 6.982 min Scan# 8
Delta R.T. -0.006 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 43 Resp: 21315

Ion	Ratio	Lower	Upper
43	100		
61	13.0	10.2	15.2
70	9.1	7.6	11.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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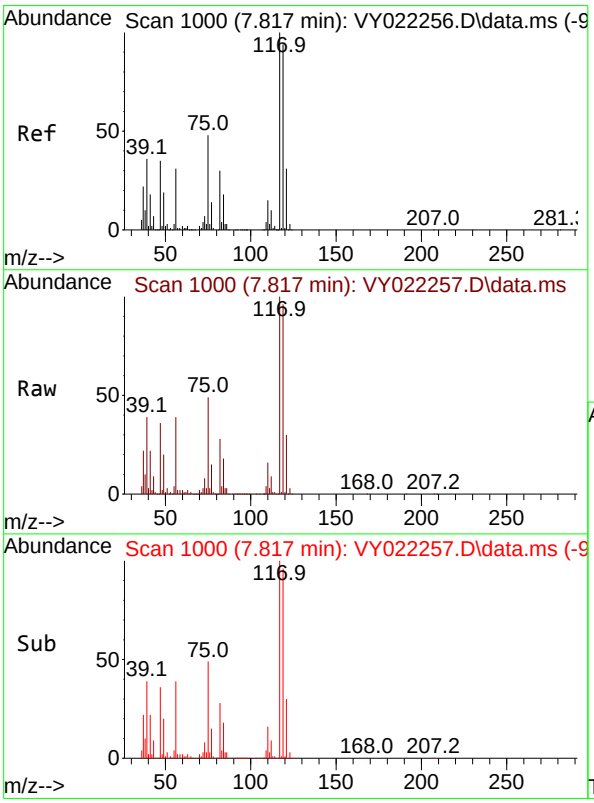
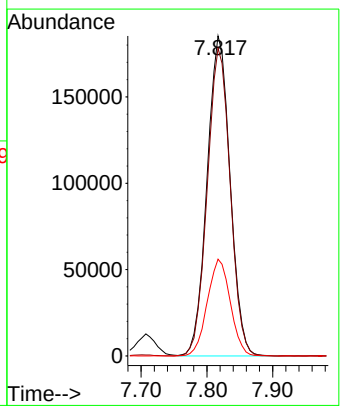
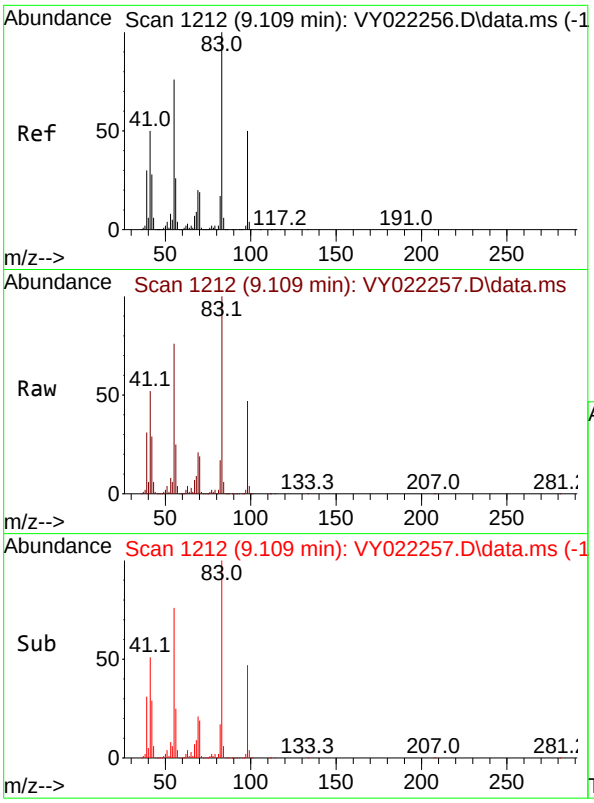


#38
Carbon Tetrachloride
Concen: 100.097 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion:117 Resp: 451589

Ion	Ratio	Lower	Upper
117	100		
119	96.2	75.3	112.9
121	30.3	24.7	37.1

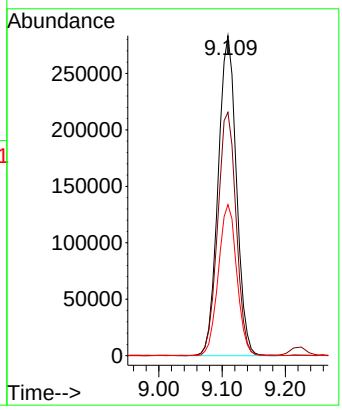




#39
Methylcyclohexane
Concen: 96.704 ug/l
RT: 9.109 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 83 Resp: 56625

Ion	Ratio	Lower	Upper
83	100		
55	75.9	60.6	90.8
98	47.2	40.0	60.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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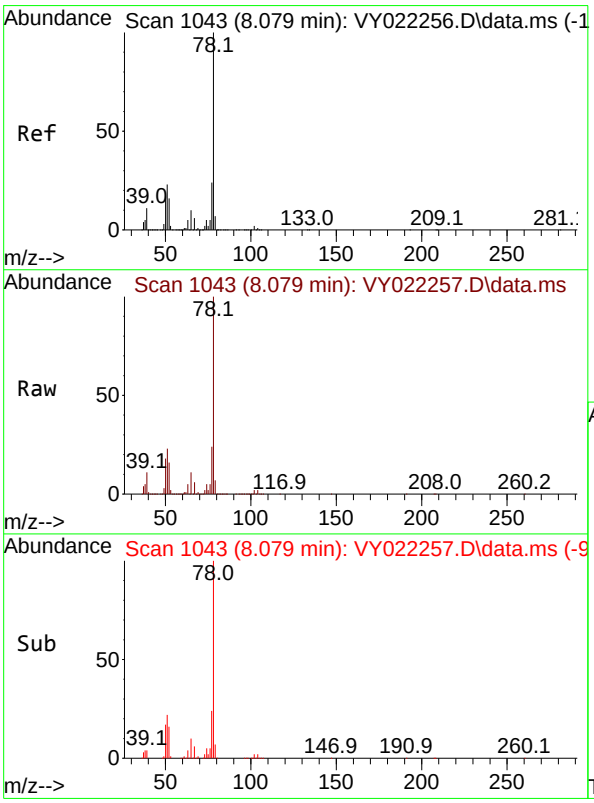
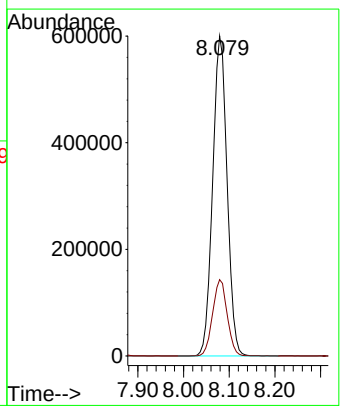
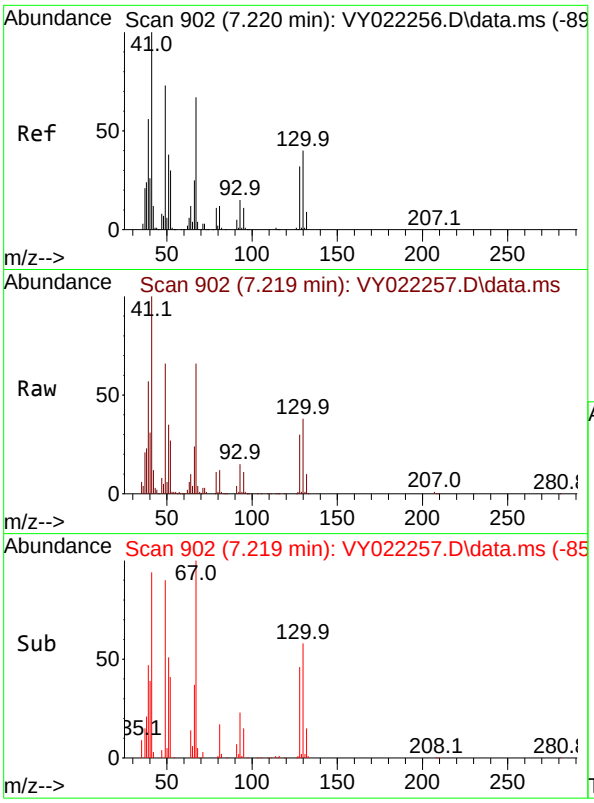


#40
Benzene
Concen: 101.677 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 78 Resp: 1313733

Ion	Ratio	Lower	Upper
78	100		
77	23.8	18.9	28.3

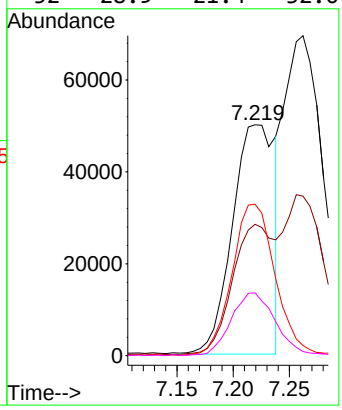




#41
Methacrylonitrile
Concen: 85.474 ug/l m
RT: 7.219 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 41 Resp: 13115

Ion	Ratio	Lower	Upper
41	100		
39	55.7	39.1	58.7
67	67.2	47.1	70.7
52	28.9	21.4	32.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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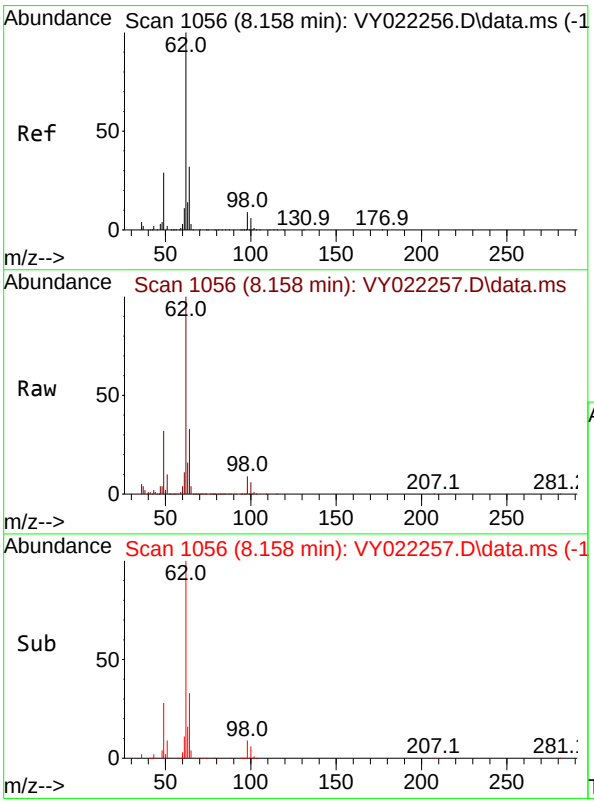
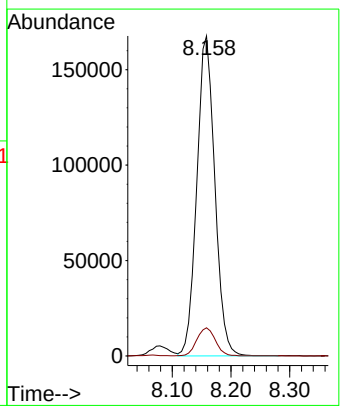
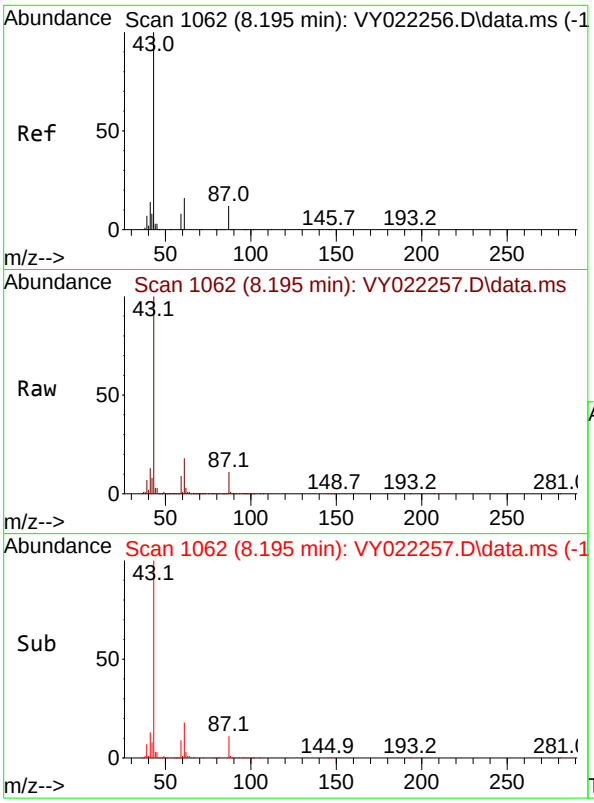


#42
1,2-Dichloroethane
Concen: 102.165 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 62 Resp: 356974

Ion	Ratio	Lower	Upper
62	100		
98	9.1	0.0	18.4





#43
Isopropyl Acetate
Concen: 103.517 ug/l
RT: 8.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 43 Resp: 47343

Ion	Ratio	Lower	Upper
43	100		
61	18.5	15.1	22.7
87	12.0	9.7	14.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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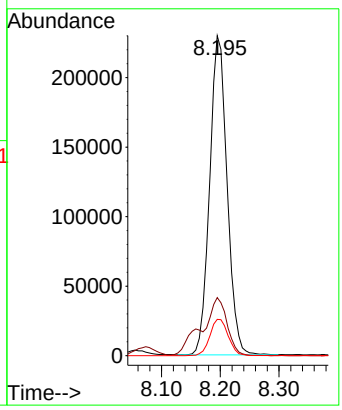
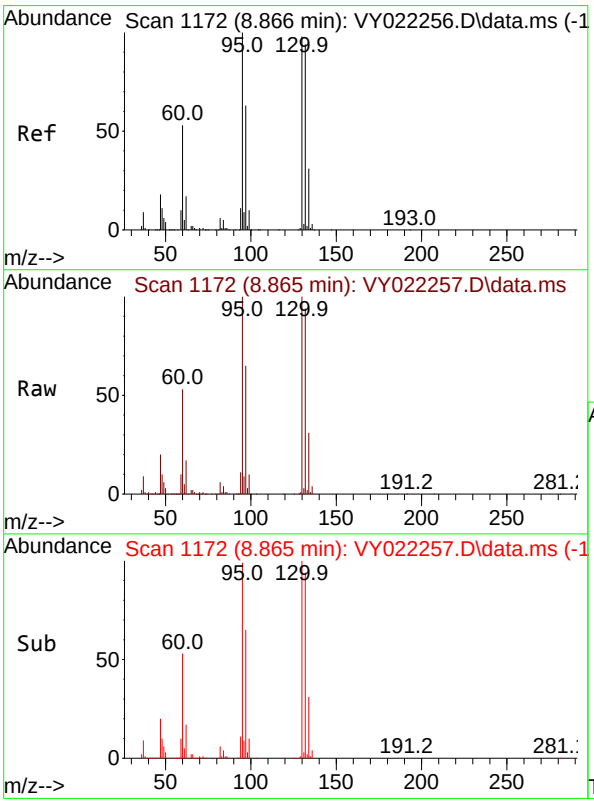
Supervised By :Semsettin Yesilyurt 05/16/2025

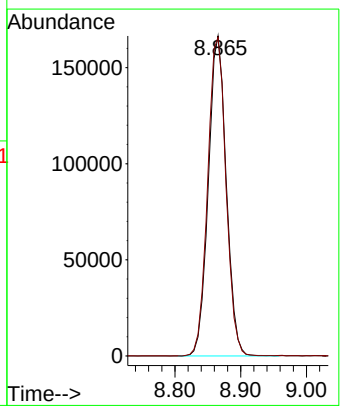


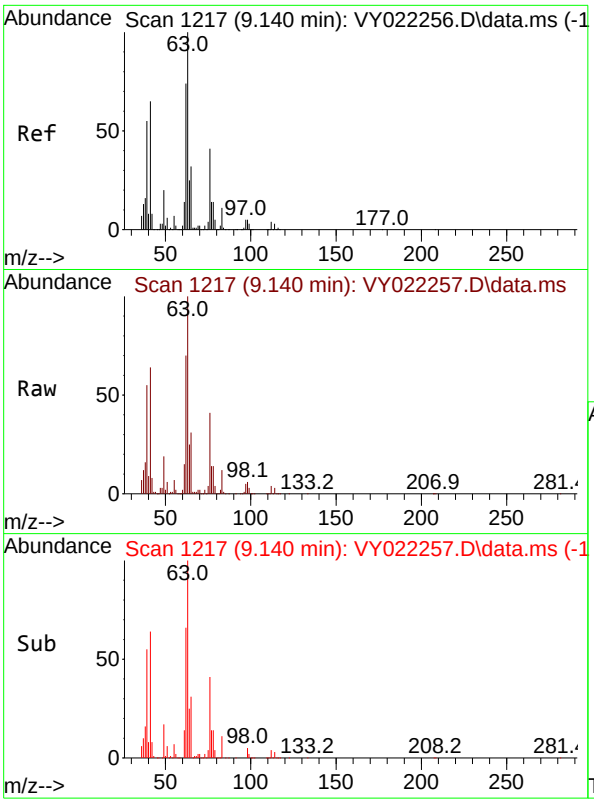


#44
Trichloroethene
Concen: 98.218 ug/l
RT: 8.865 min Scan# 1172
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion:130 Resp: 315543

Ion	Ratio	Lower	Upper
130	100		
95	99.5	0.0	204.8





#45
1,2-Dichloropropane
Concen: 100.858 ug/l
RT: 9.140 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 63 Resp: 31417

Ion	Ratio	Lower	Upper
63	100		
65	30.8	25.7	38.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
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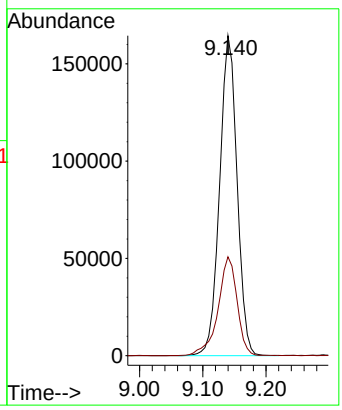
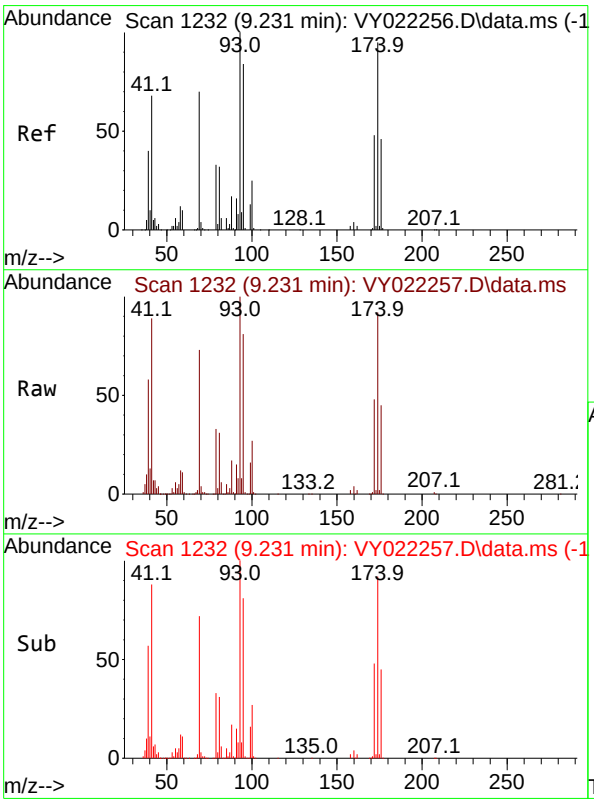
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

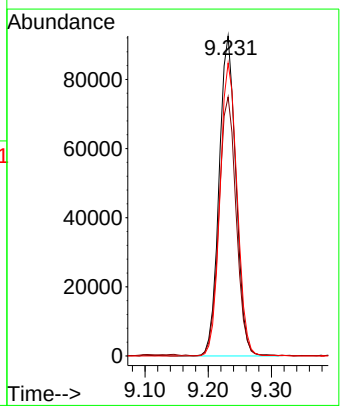


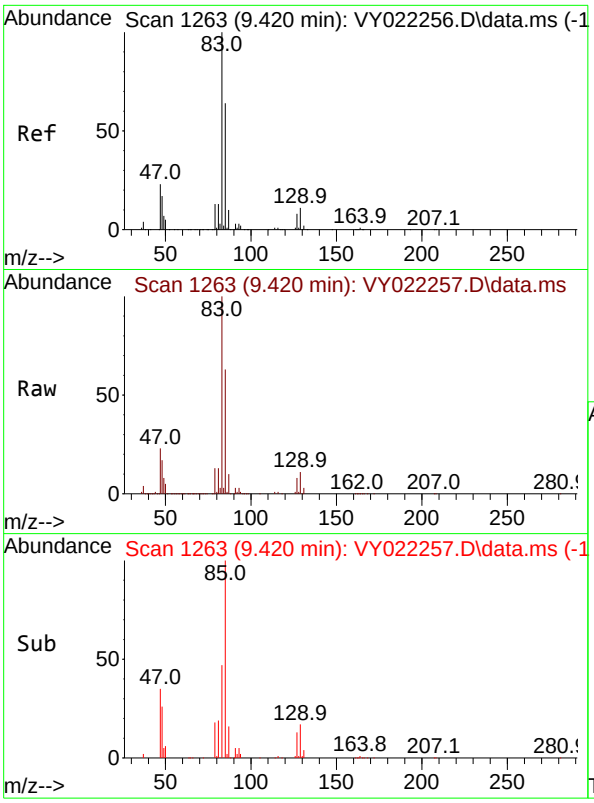


#46
Dibromomethane
Concen: 101.606 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 93 Resp: 170712

Ion	Ratio	Lower	Upper
93	100		
95	82.7	65.2	97.8
174	92.9	74.3	111.5

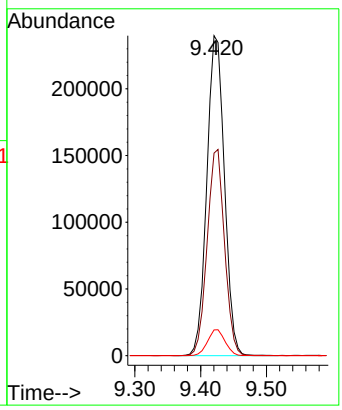




#47
Bromodichloromethane
Concen: 102.514 ug/l
RT: 9.420 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 83 Resp: 44682

Ion	Ratio	Lower	Upper
83	100		
85	63.2	51.1	76.7
127	8.0	6.6	10.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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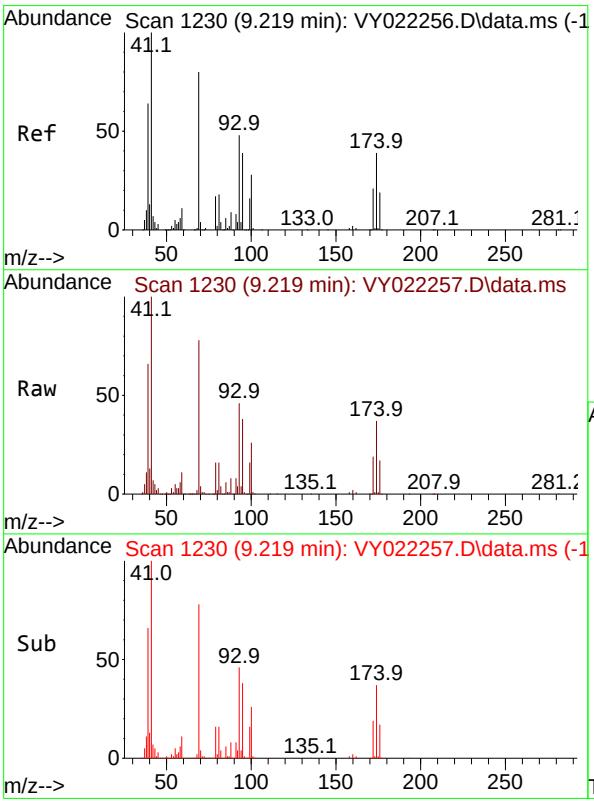
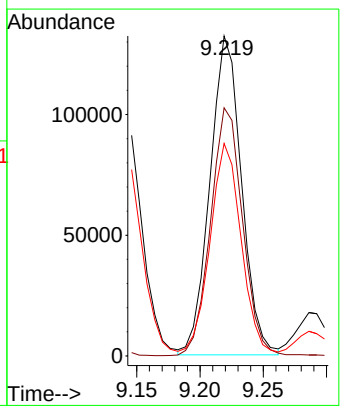
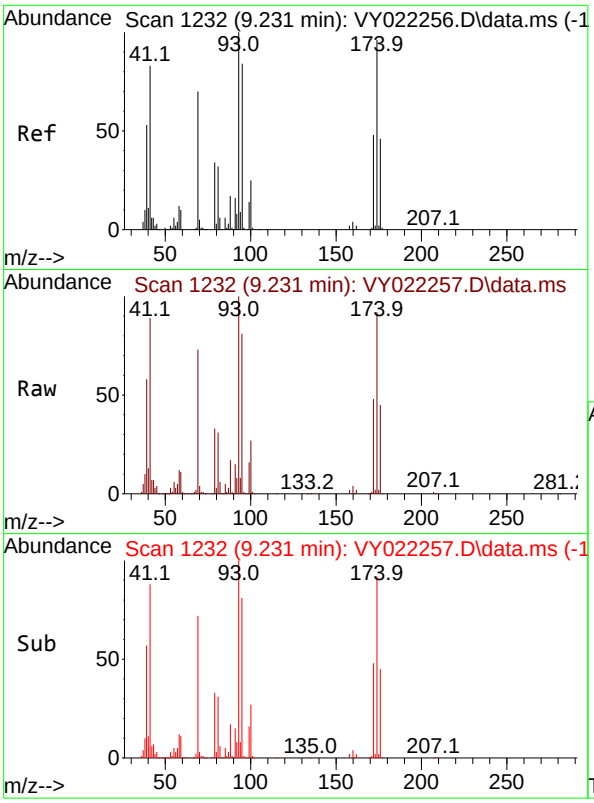


#48
Methyl methacrylate
Concen: 107.308 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 41 Resp: 229512

Ion	Ratio	Lower	Upper
41	100		
69	78.7	63.5	95.3
39	63.5	50.8	76.2

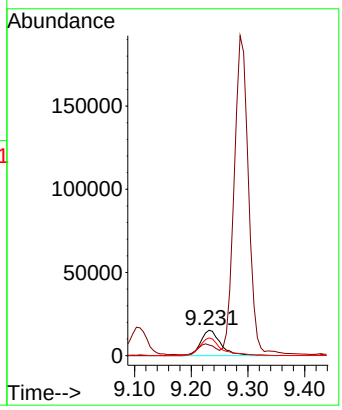




#49
1,4-Dioxane
Concen: 1990.455 ug/l
RT: 9.231 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 88 Resp: 3778

Ion	Ratio	Lower	Upper
88	100		
43	36.0	28.5	42.7
58	75.0	61.4	92.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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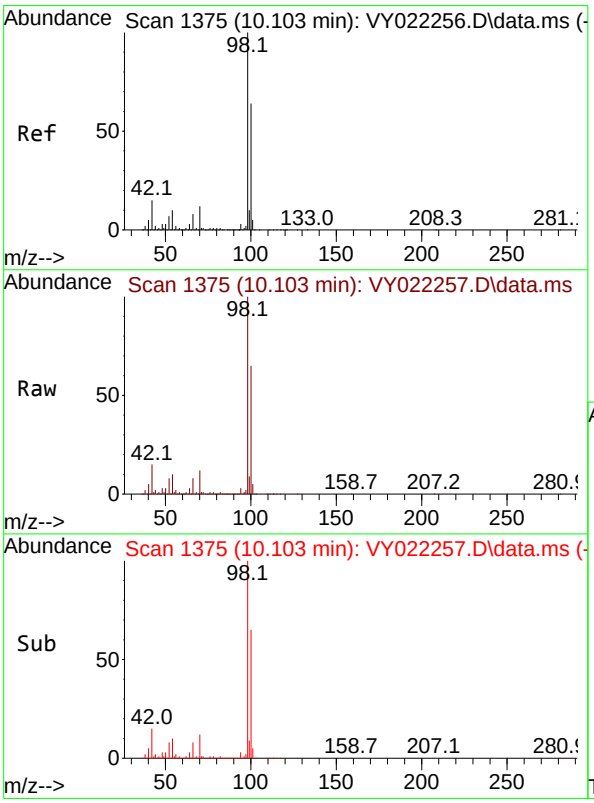
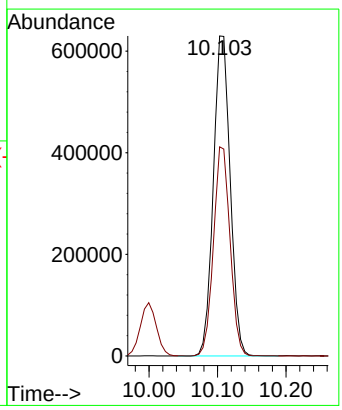
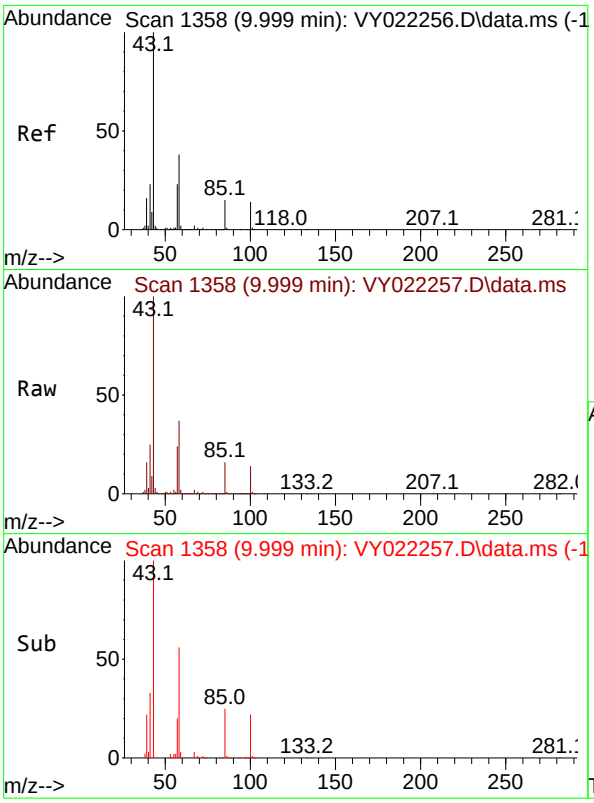


#50
Toluene-d8
Concen: 99.289 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 98 Resp: 1076035

Ion	Ratio	Lower	Upper
98	100		
100	64.2	51.8	77.8

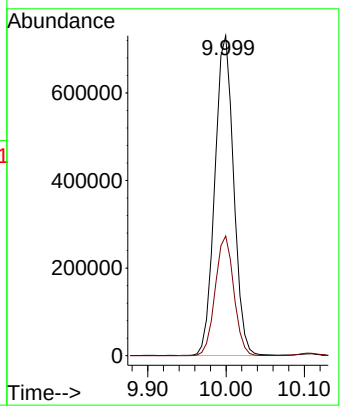




#51
4-Methyl-2-Pentanone
Concen: 543.068 ug/l
RT: 9.999 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 43 Resp: 121868

Ion	Ratio	Lower	Upper
43	100		
58	37.1	29.4	44.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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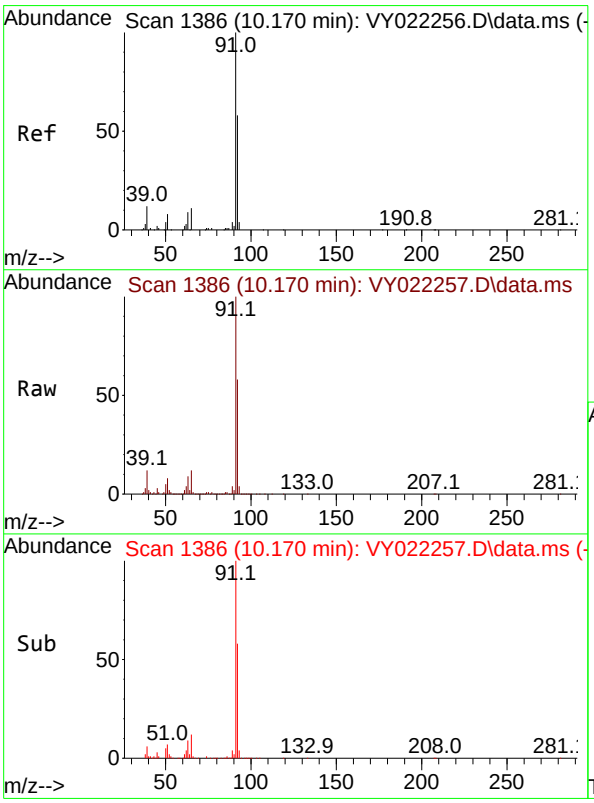
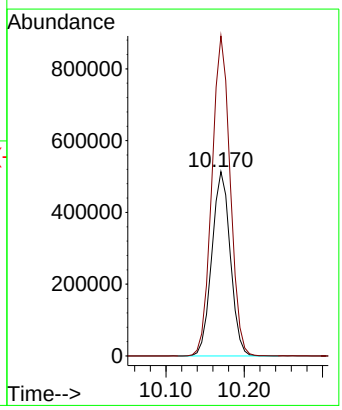
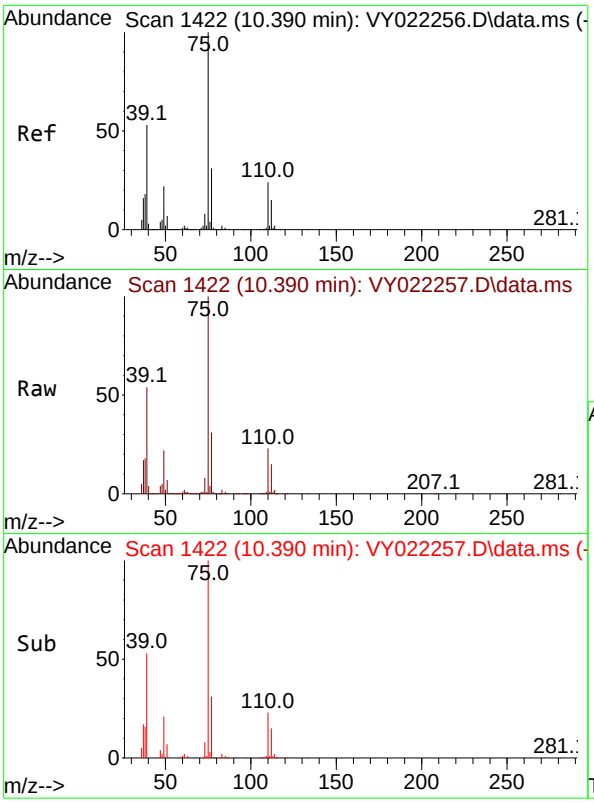


#52
Toluene
Concen: 102.593 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 92 Resp: 839400

Ion	Ratio	Lower	Upper
92	100		
91	172.5	139.1	208.7

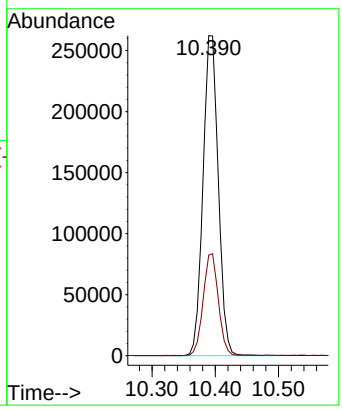




#53
t-1,3-Dichloropropene
Concen: 103.832 ug/l
RT: 10.390 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 75 Resp: 44167

Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.0	37.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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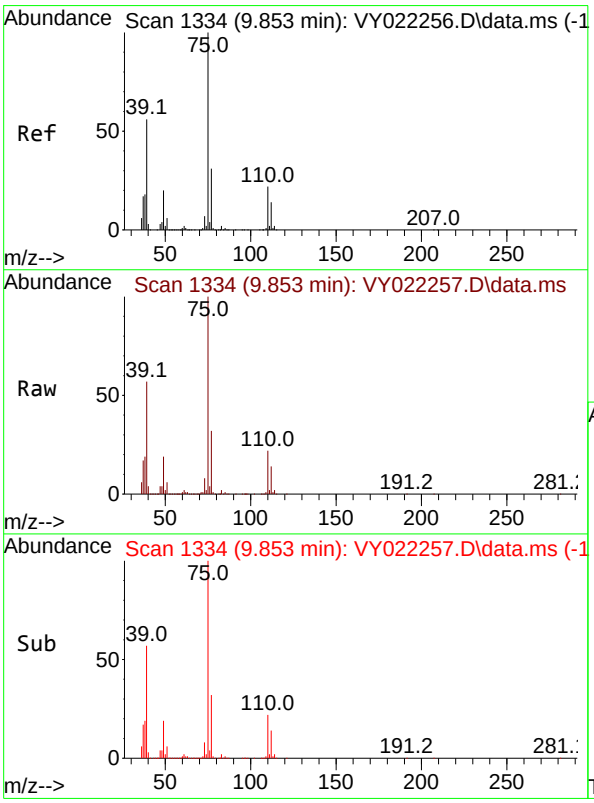
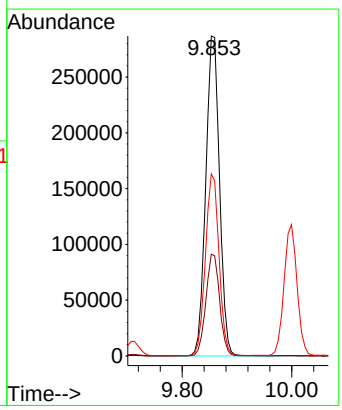
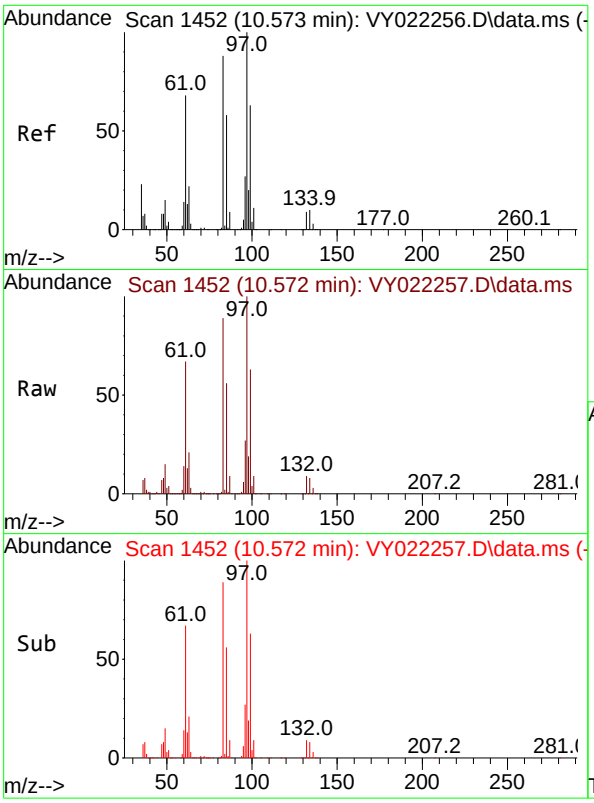


#54
cis-1,3-Dichloropropene
Concen: 102.190 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 75 Resp: 498023

Ion	Ratio	Lower	Upper
75	100		
77	31.8	25.1	37.7
39	56.8	44.5	66.7

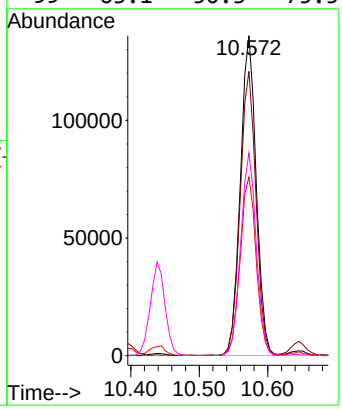




#55
1,1,2-Trichloroethane
Concen: 102.005 ug/l
RT: 10.572 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 97 Resp: 21946

Ion	Ratio	Lower	Upper
97	100		
83	88.8	70.3	105.5
85	55.8	46.2	69.4
99	63.1	50.3	75.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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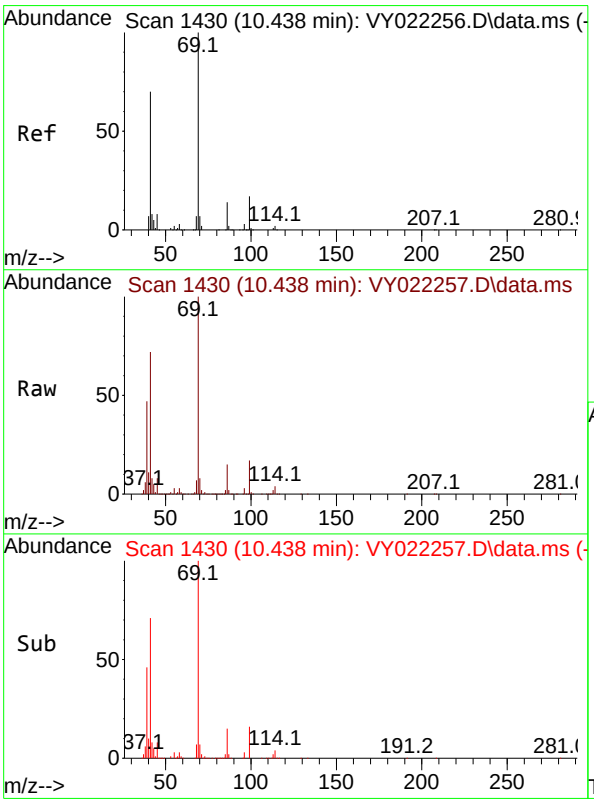
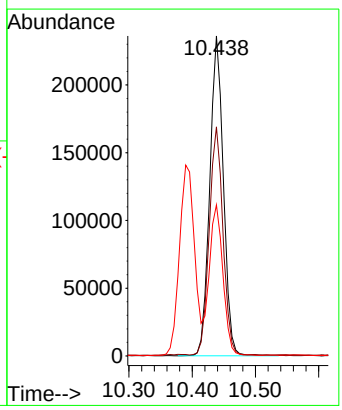
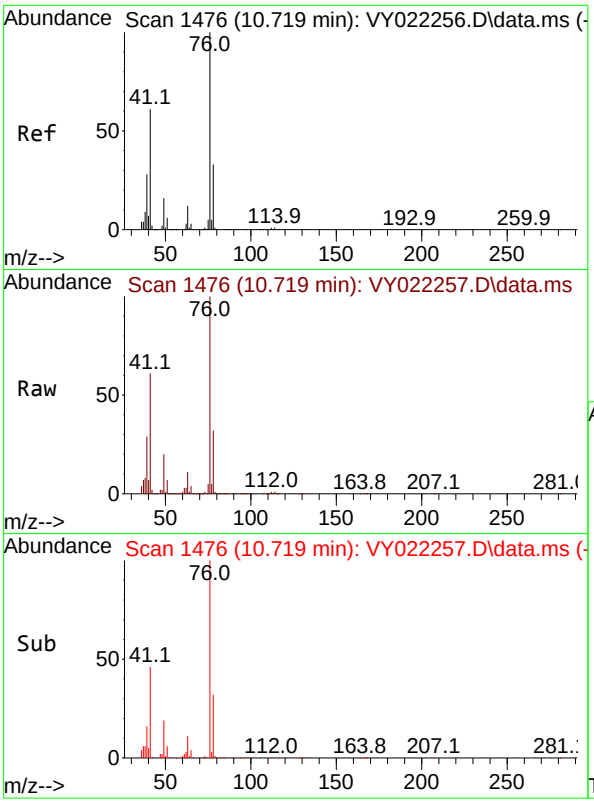


#56
Ethyl methacrylate
Concen: 105.335 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 69 Resp: 353013

Ion	Ratio	Lower	Upper
69	100		
41	71.7	56.5	84.7
39	47.7	37.1	55.7





#57
1,3-Dichloropropane
Concen: 102.420 ug/l
RT: 10.719 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 76 Resp: 39151

Ion	Ratio	Lower	Upper
76	100		
78	32.7	25.8	38.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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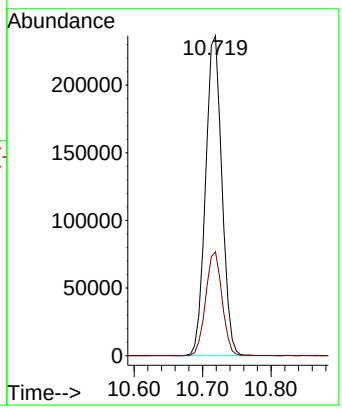
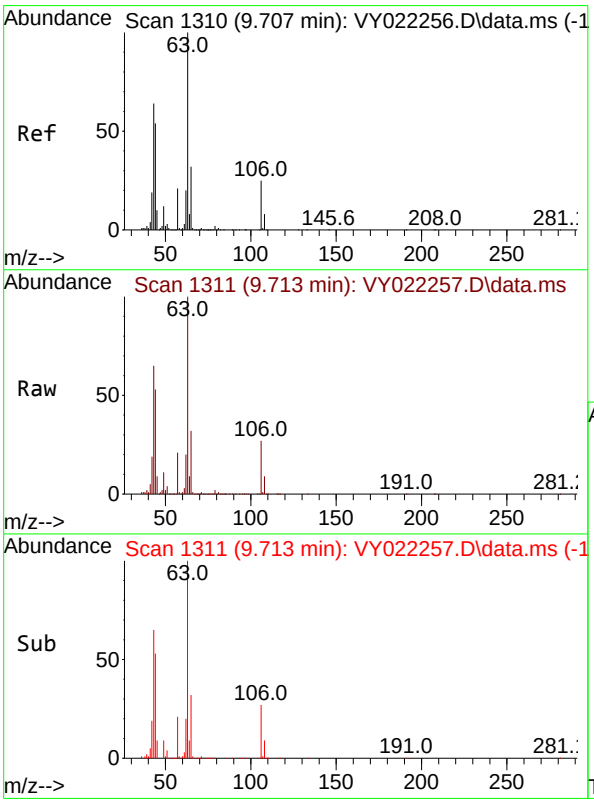
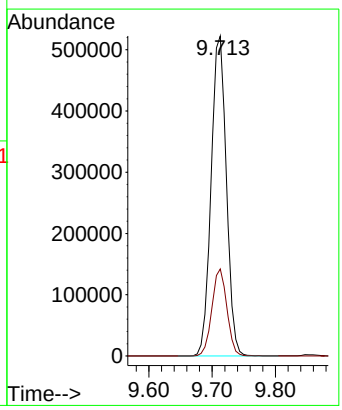


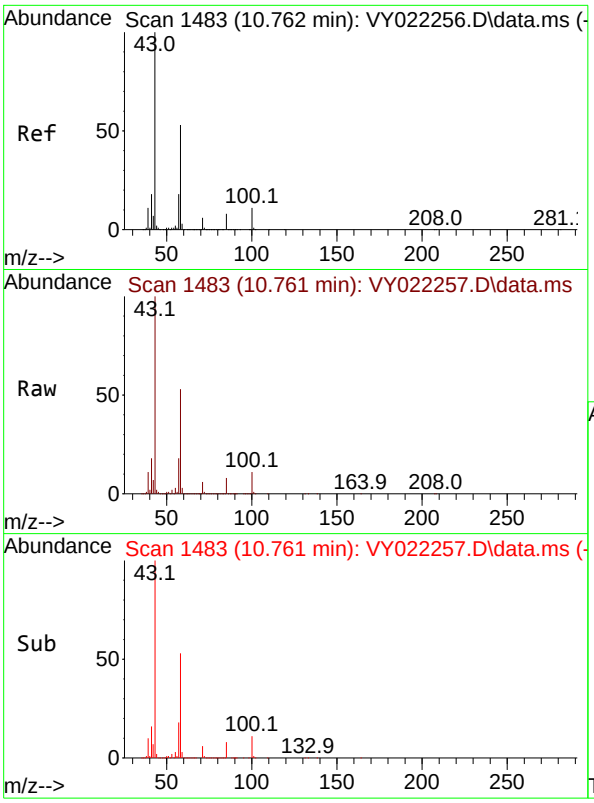


#58
2-Chloroethyl Vinyl ether
Concen: 580.295 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. 0.006 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 63 Resp: 872907

Ion	Ratio	Lower	Upper
63	100		
106	26.7	21.0	31.4





#59
2-Hexanone
Concen: 537.872 ug/l
RT: 10.761 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 43 Resp: 80928

Ion	Ratio	Lower	Upper
43	100		
58	52.2	26.1	78.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
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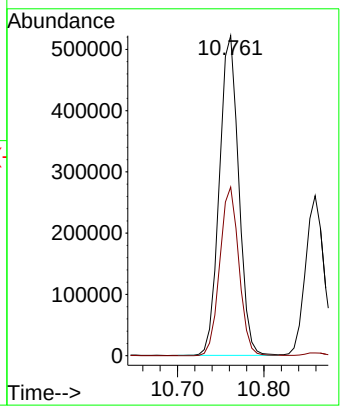
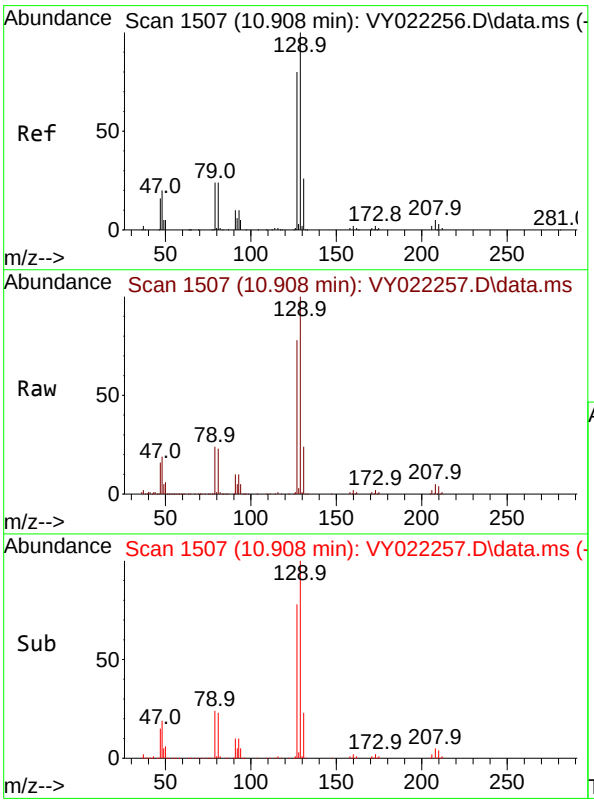
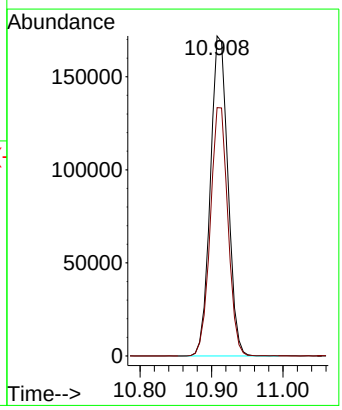


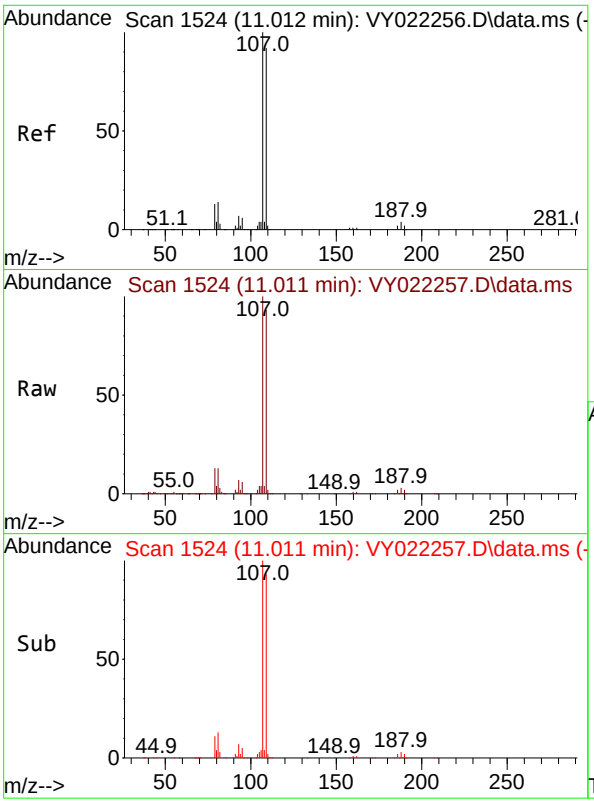


#60
Dibromochloromethane
Concen: 104.616 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion:129 Resp: 292143

Ion	Ratio	Lower	Upper
129	100		
127	77.9	38.6	115.7

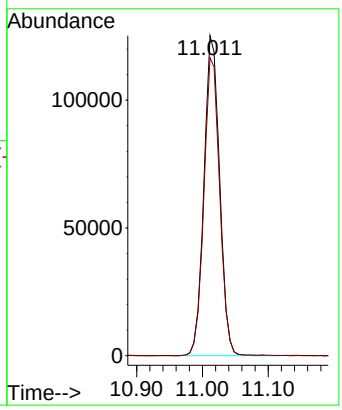




#61
1,2-Dibromoethane
Concen: 103.362 ug/l
RT: 11.011 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion:107 Resp: 20726

Ion	Ratio	Lower	Upper
107	100		
109	94.0	74.6	111.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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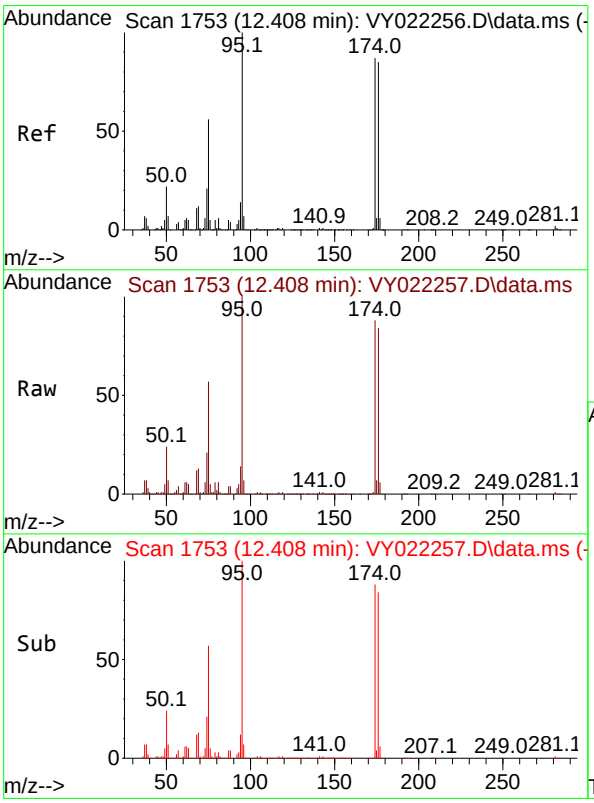
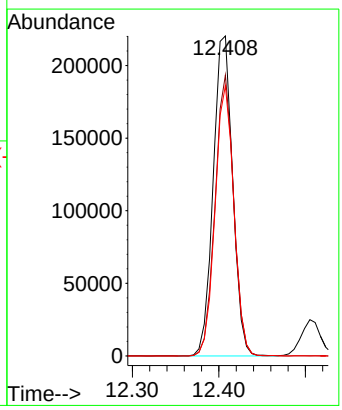
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

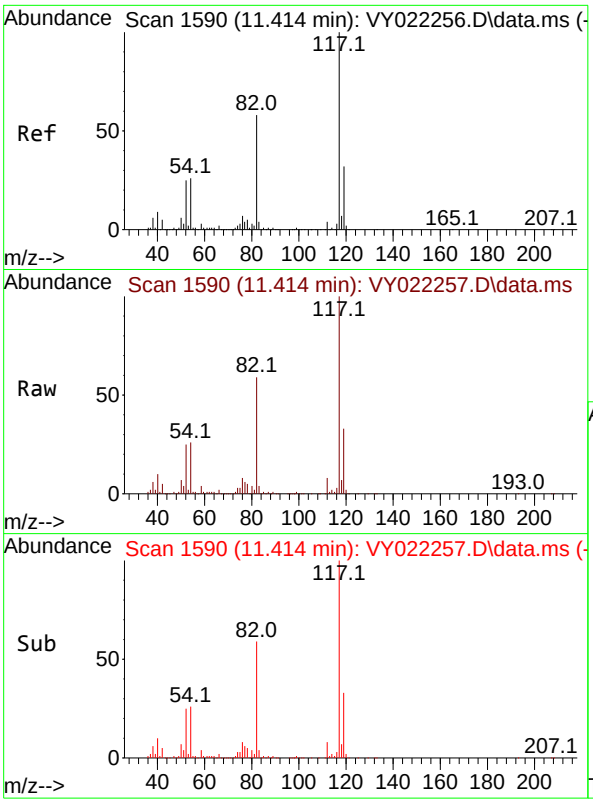


#62
4-Bromofluorobenzene
Concen: 99.968 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 95 Resp: 343397

Ion	Ratio	Lower	Upper
95	100		
174	84.2	0.0	166.8
176	81.7	0.0	160.8

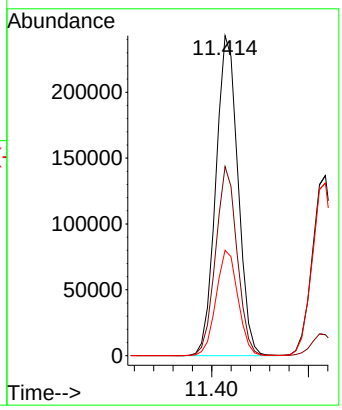




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion:117 Resp: 38534

Ion	Ratio	Lower	Upper
117	100		
82	59.1	46.6	70.0
119	33.0	25.8	38.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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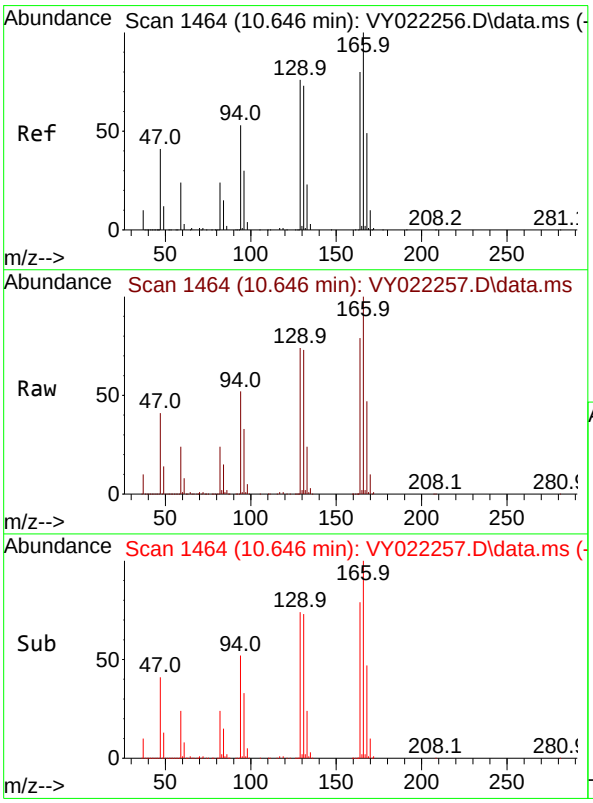
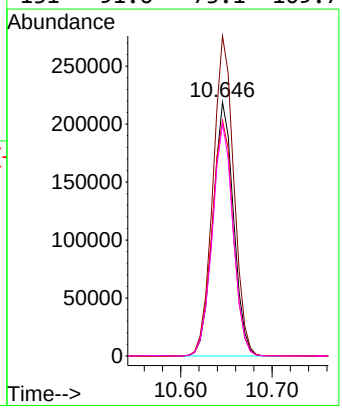
Supervised By :Semsettin Yesilyurt 05/16/2025

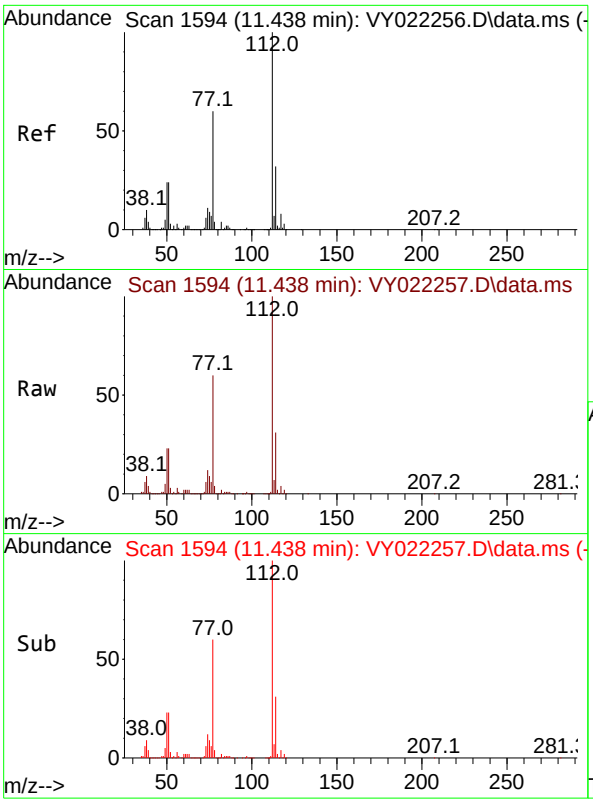


#64
Tetrachloroethene
Concen: 96.489 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion:164 Resp: 343677

Ion	Ratio	Lower	Upper
164	100		
166	126.1	100.4	150.6
129	92.9	76.4	114.6
131	91.6	73.1	109.7

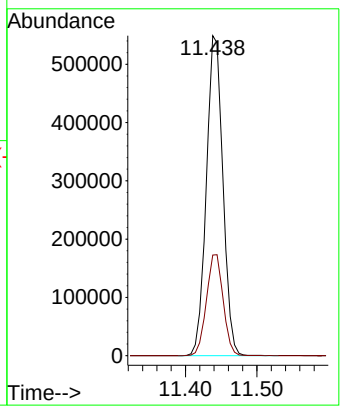




#65
Chlorobenzene
Concen: 101.346 ug/l
RT: 11.438 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion:112 Resp: 88108

Ion	Ratio	Lower	Upper
112	100		
114	31.4	25.8	38.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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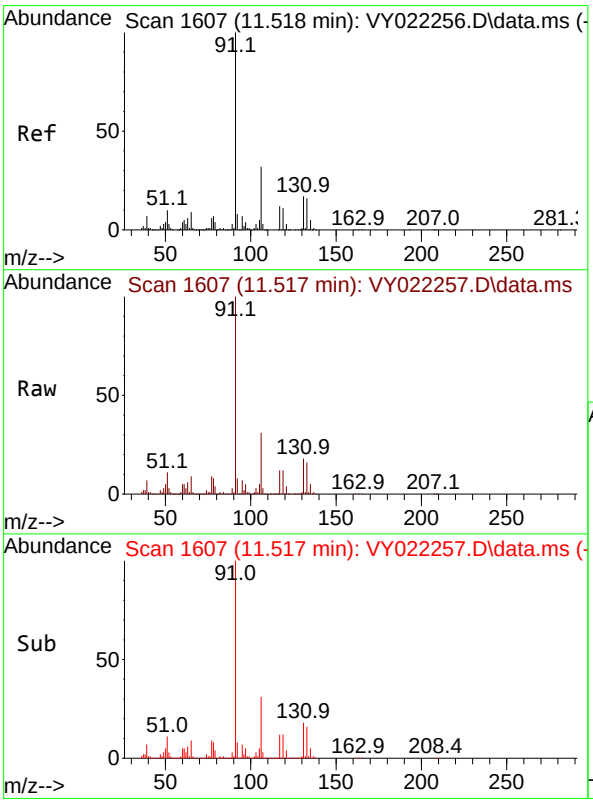
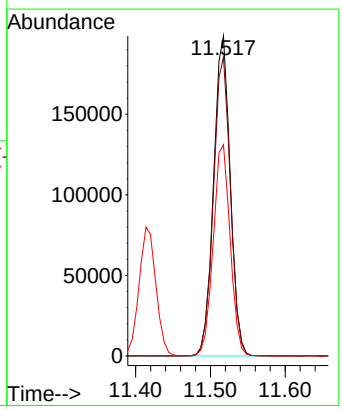
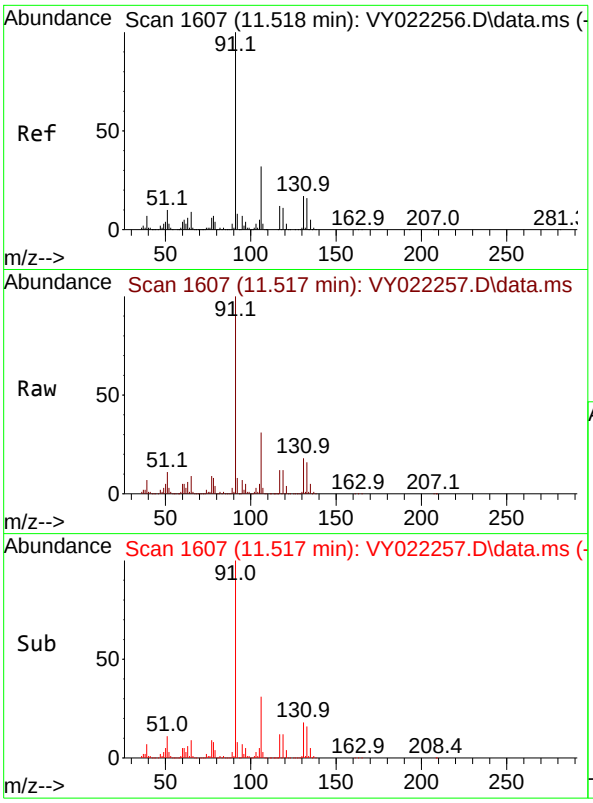


#66
1,1,1,2-Tetrachloroethane
Concen: 103.007 ug/l
RT: 11.517 min Scan# 1607
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion:131 Resp: 307866

Ion	Ratio	Lower	Upper
131	100		
133	95.1	47.3	141.9
119	67.2	33.1	99.2

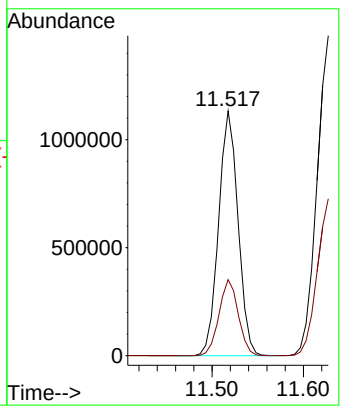




#67
Ethyl Benzene
Concen: 102.836 ug/l
RT: 11.517 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 91 Resp: 167435

Ion	Ratio	Lower	Upper
91	100		
106	31.1	25.4	38.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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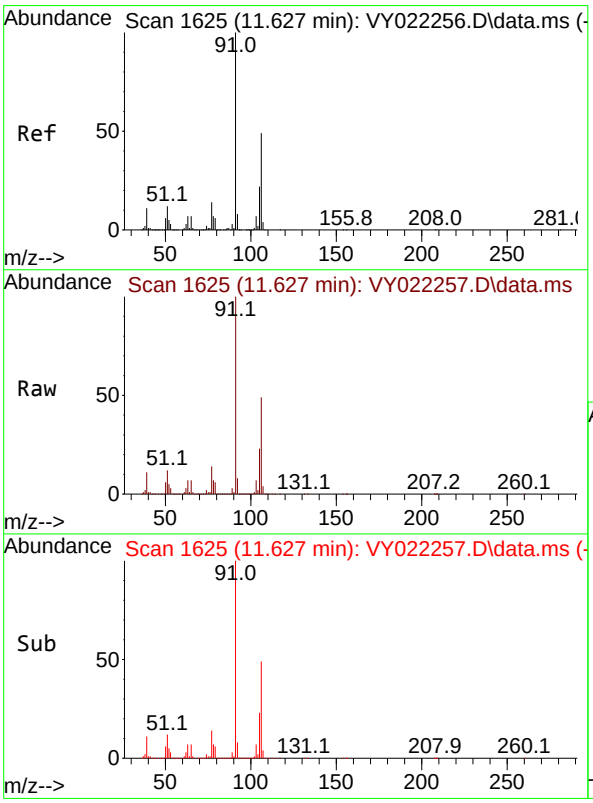
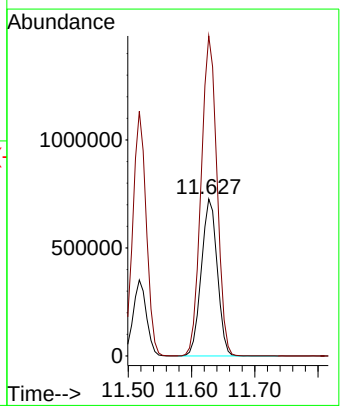
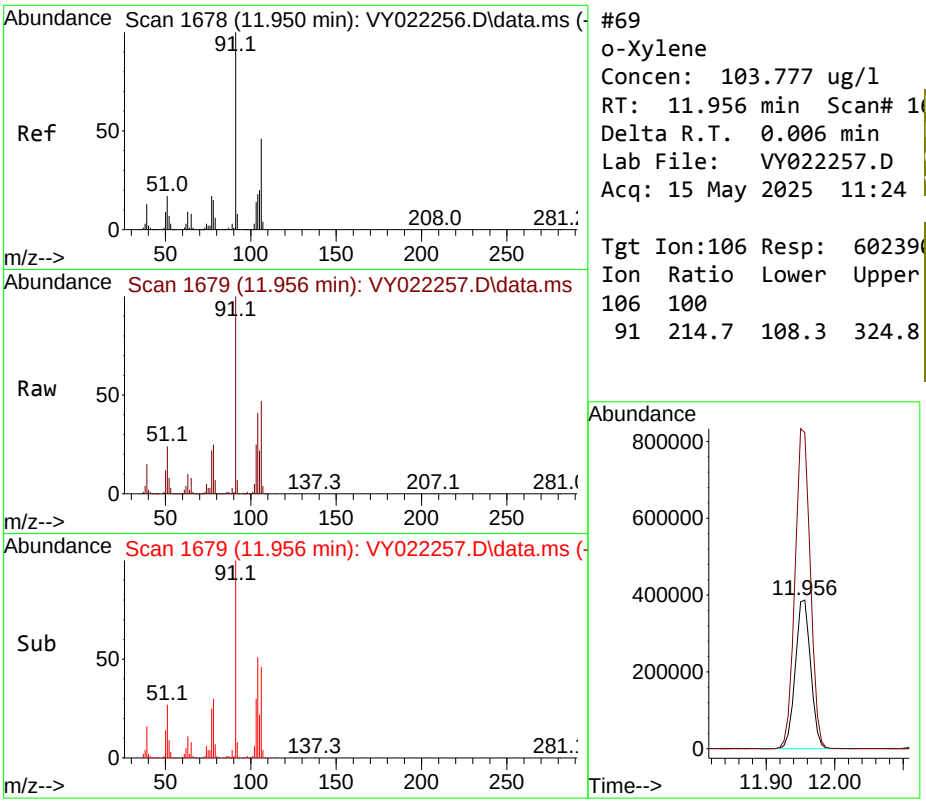


#68
m/p-Xylenes
Concen: 207.213 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion:106 Resp: 1271299

Ion	Ratio	Lower	Upper
106	100		
91	203.2	163.0	244.4





#69
o-Xylene
Concen: 103.777 ug/l
RT: 11.956 min Scan# 1(
Delta R.T. 0.006 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion:106 Resp: 60239(

Ion	Ratio	Lower	Upper
106	100		
91	214.7	108.3	324.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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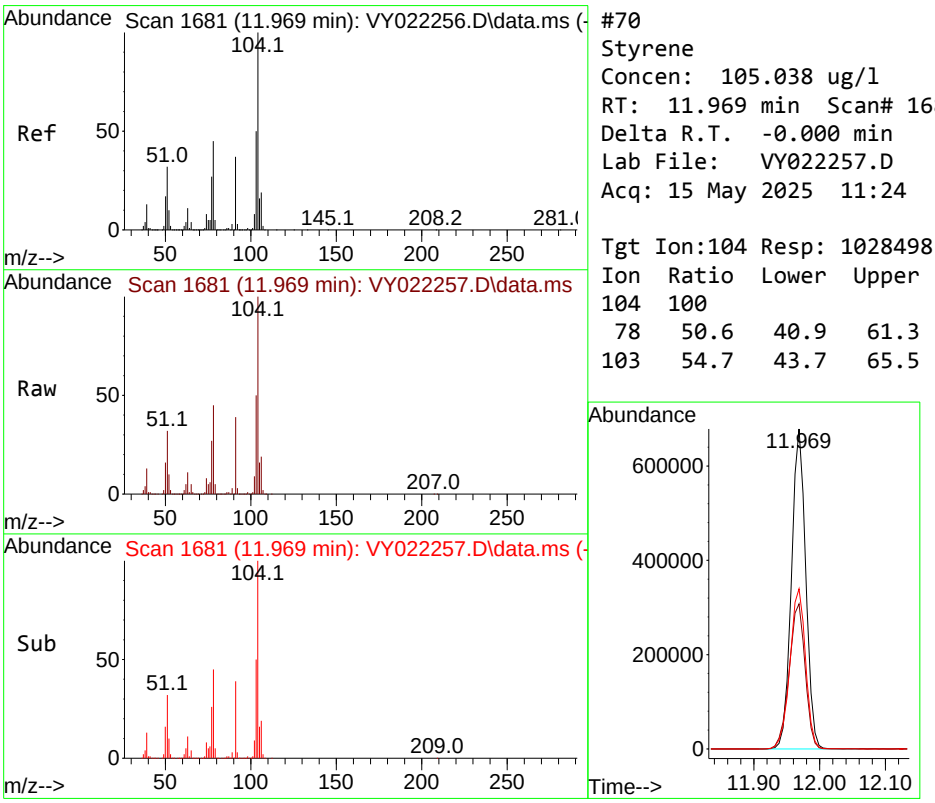
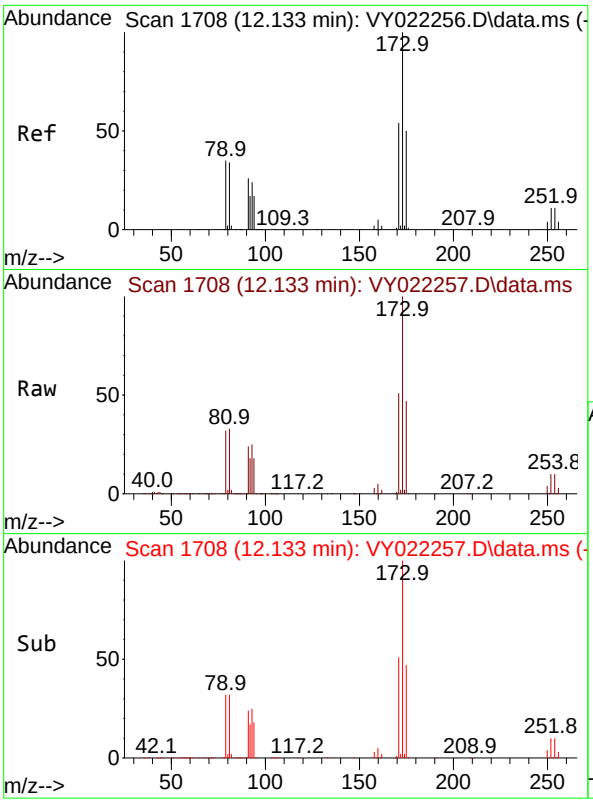


#70
Styrene
Concen: 105.038 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion:104 Resp: 1028498

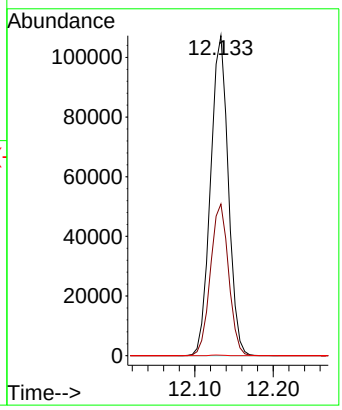
Ion	Ratio	Lower	Upper
104	100		
78	50.6	40.9	61.3
103	54.7	43.7	65.5



#71
Bromoform
Concen: 104.561 ug/l
RT: 12.133 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion:173 Resp: 16867

Ion	Ratio	Lower	Upper
173	100		
175	48.6	24.7	74.1
254	0.1	0.0	0.0#



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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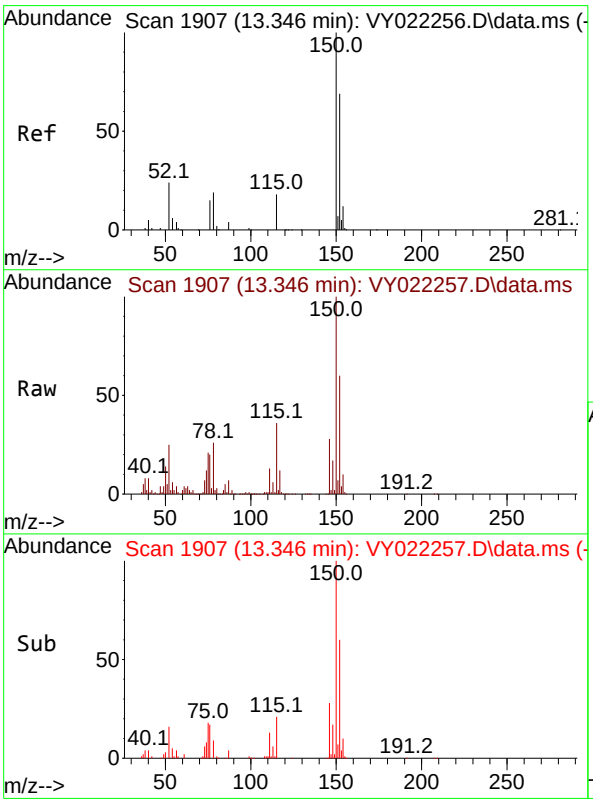
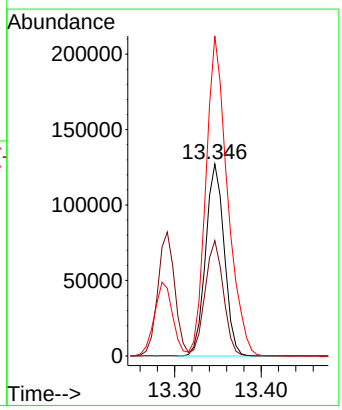
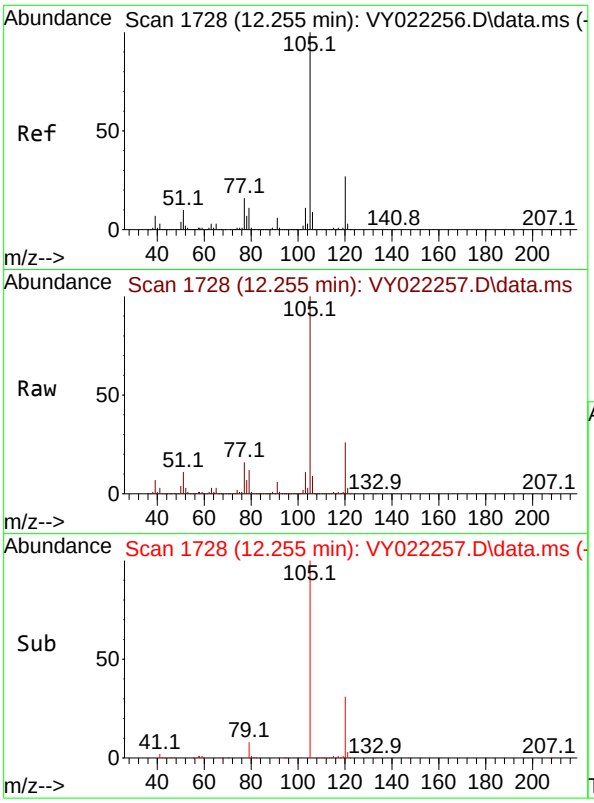


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion:152 Resp: 189780

Ion	Ratio	Lower	Upper
152	100		
115	59.1	29.4	88.2
150	193.1	0.0	353.8

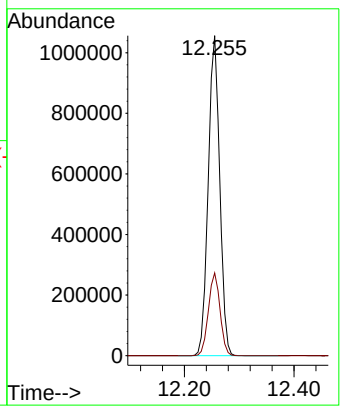




#73
Isopropylbenzene
Concen: 97.241 ug/l
RT: 12.255 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion:105 Resp: 152885

Ion	Ratio	Lower	Upper
105	100		
120	26.1	13.2	39.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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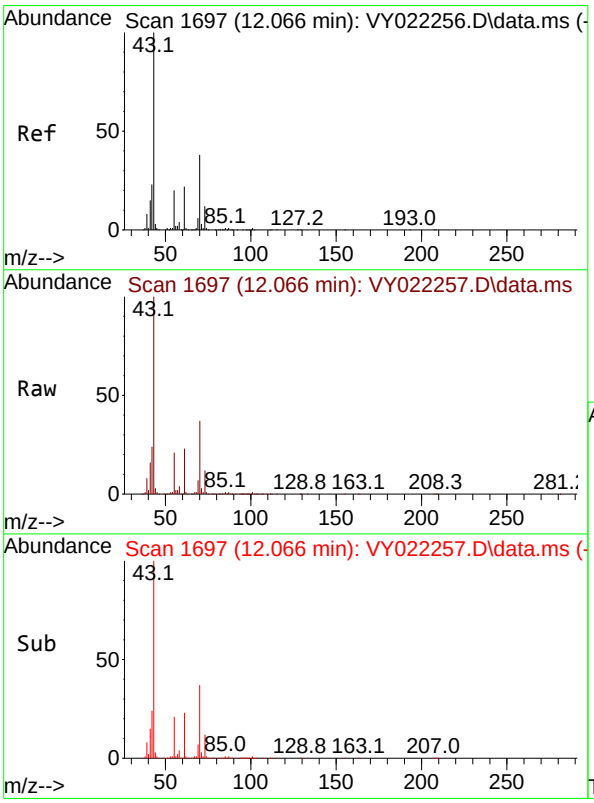
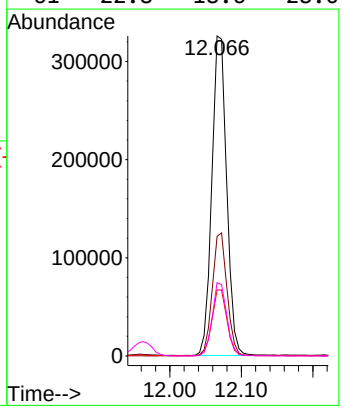
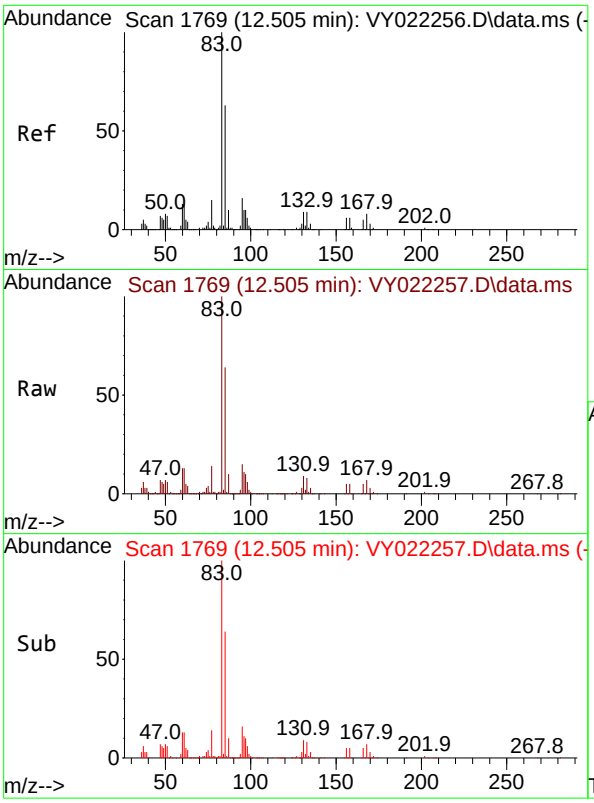


#74
N-amyl acetate
Concen: 104.235 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 43 Resp: 468707

Ion	Ratio	Lower	Upper
43	100		
70	38.2	31.4	47.0
55	20.8	17.0	25.6
61	22.8	18.6	28.0

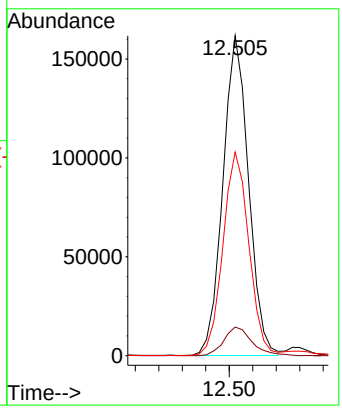




#75
1,1,2,2-Tetrachloroethane
Concen: 101.255 ug/l
RT: 12.505 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 83 Resp: 24483

Ion	Ratio	Lower	Upper
83	100		
131	9.9	4.9	14.7
85	64.4	32.0	96.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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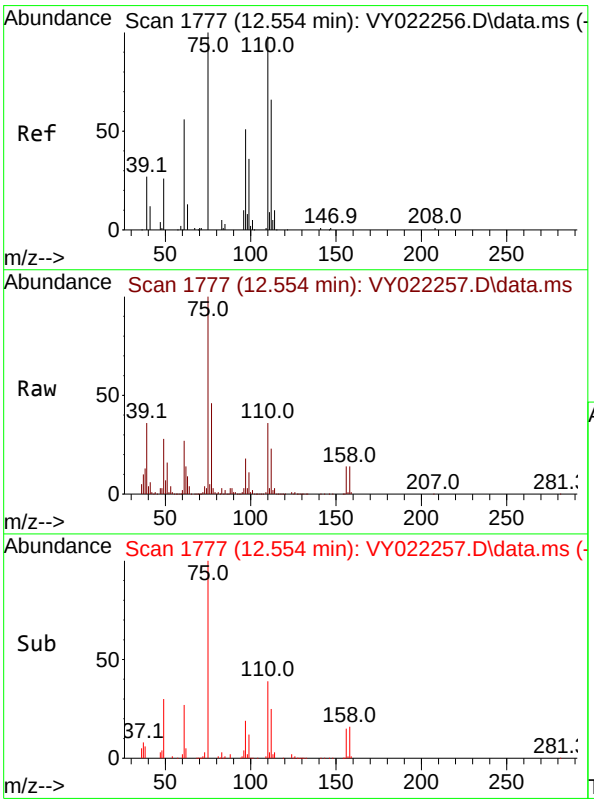
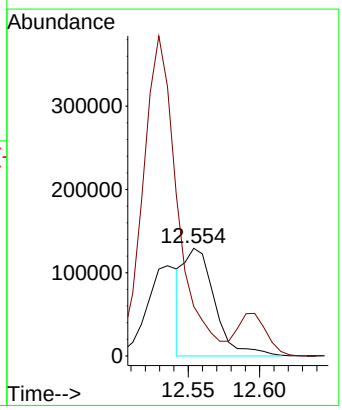
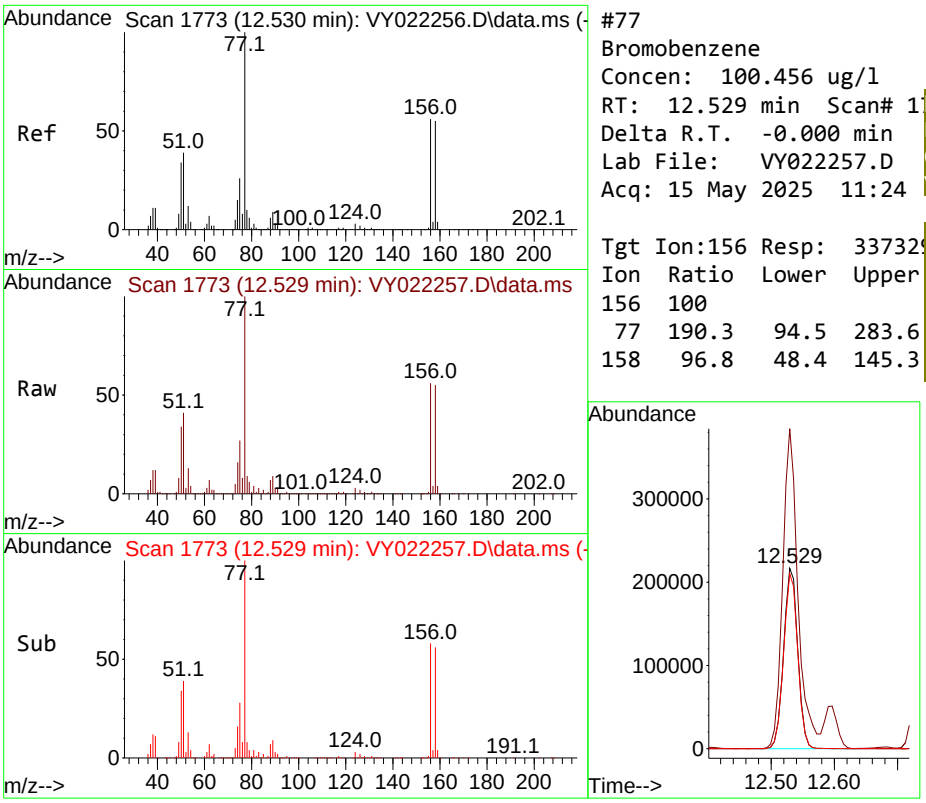


#76
1,2,3-Trichloropropane
Concen: 59.078 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 75 Resp: 197600

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0





#77
Bromobenzene
Concen: 100.456 ug/l
RT: 12.529 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion:156 Resp: 33732

Ion	Ratio	Lower	Upper
156	100		
77	190.3	94.5	283.6
158	96.8	48.4	145.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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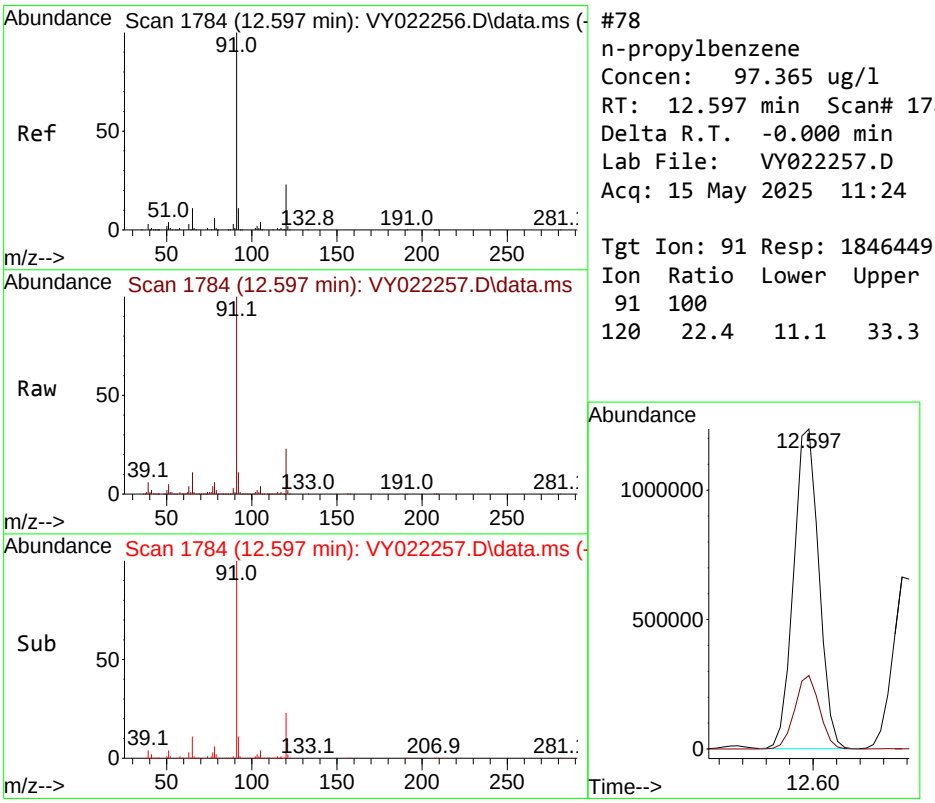
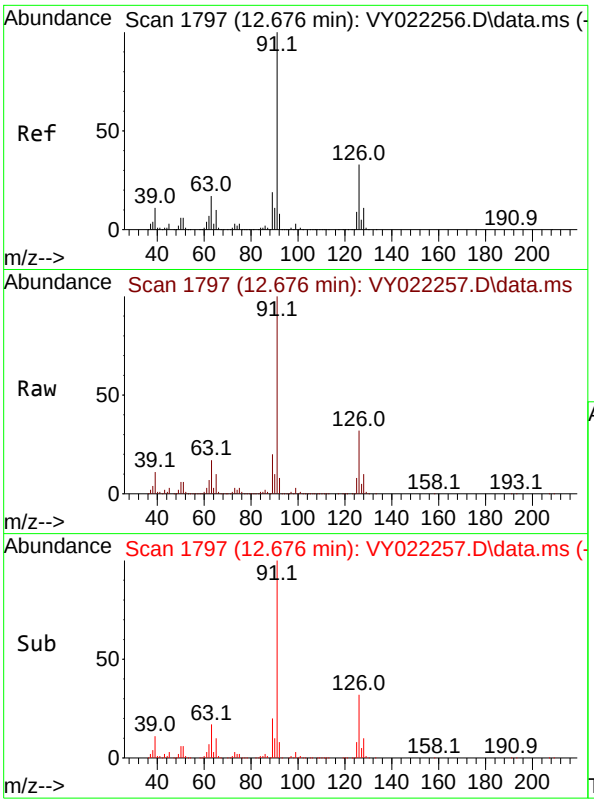


#78
n-propylbenzene
Concen: 97.365 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 91 Resp: 1846449

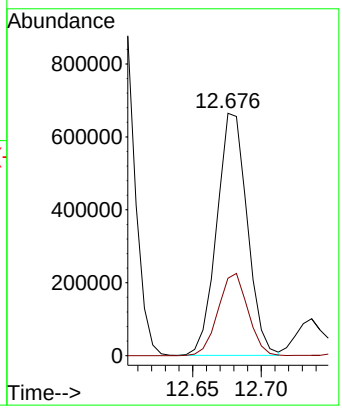
Ion	Ratio	Lower	Upper
91	100		
120	22.4	11.1	33.3



#79
2-Chlorotoluene
Concen: 98.488 ug/l
RT: 12.676 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 91 Resp: 102640

Ion	Ratio	Lower	Upper
91	100		
126	33.3	16.8	50.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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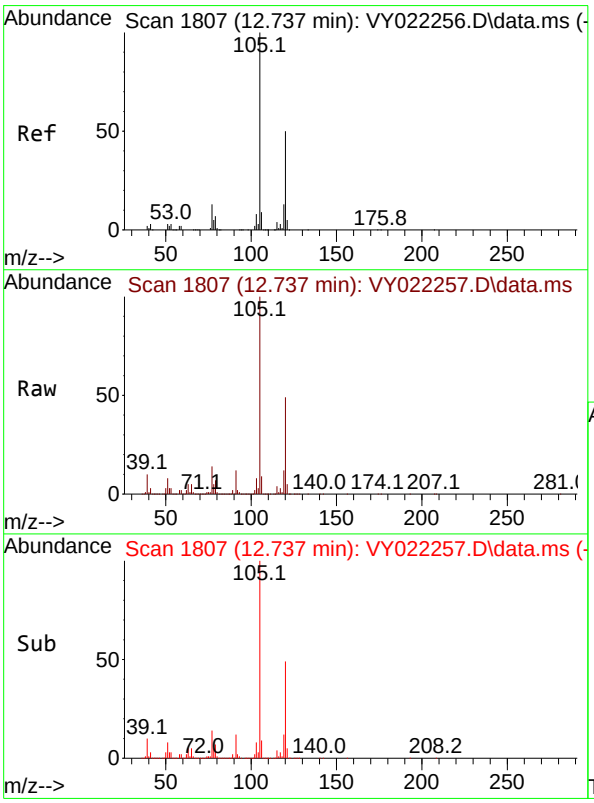
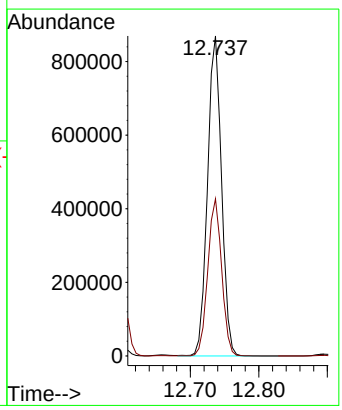
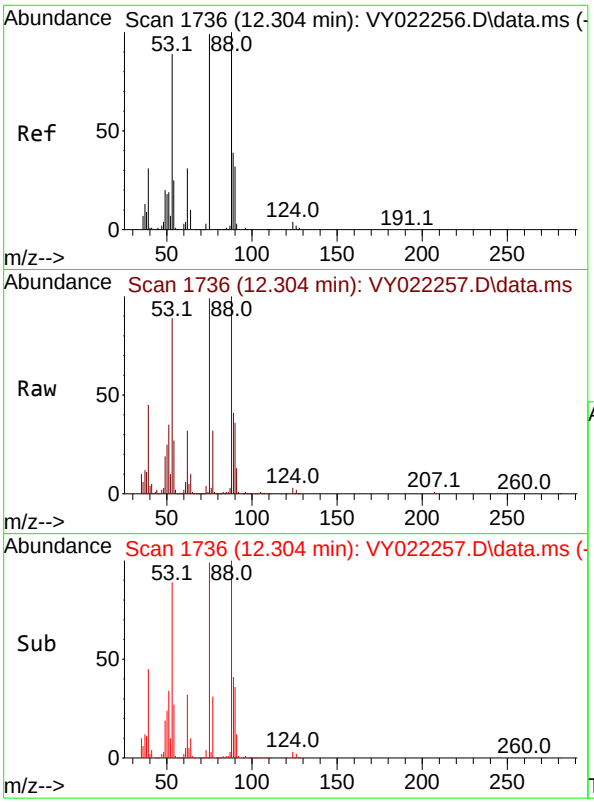


#80
1,3,5-Trimethylbenzene
Concen: 97.216 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion:105 Resp: 1233838

Ion	Ratio	Lower	Upper
105	100		
120	48.8	24.2	72.6

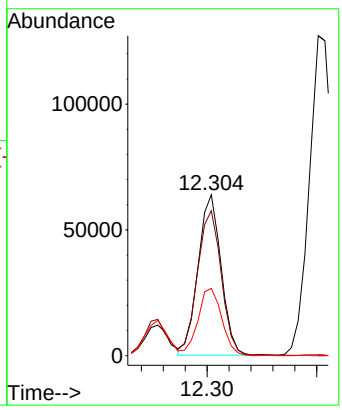




#81
trans-1,4-Dichloro-2-butene
Concen: 98.251 ug/l
RT: 12.304 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 75 Resp: 9325

Ion	Ratio	Lower	Upper
75	100		
53	92.8	75.8	113.8
89	43.5	36.2	54.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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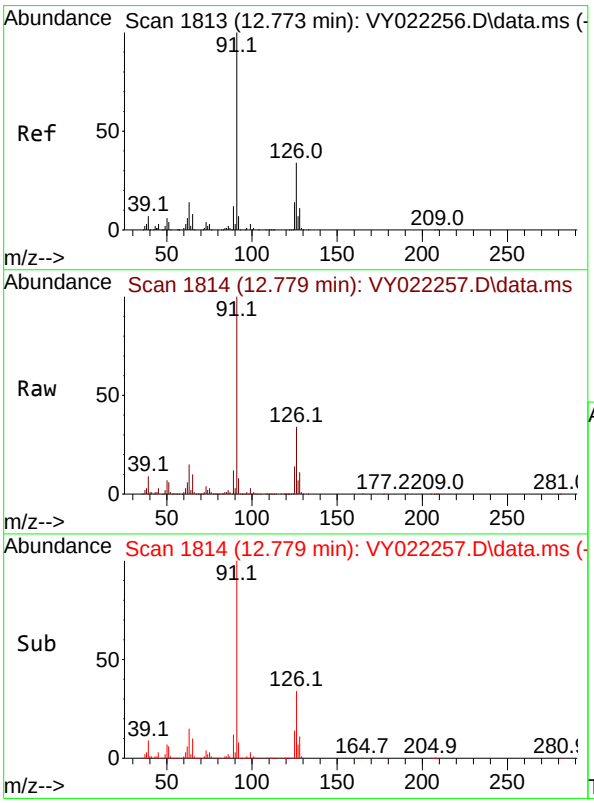
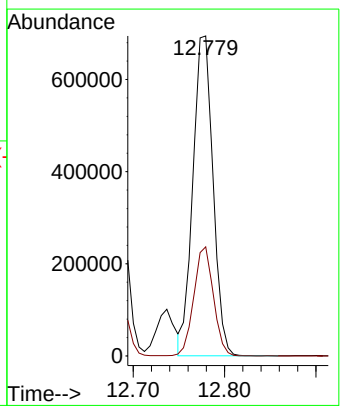
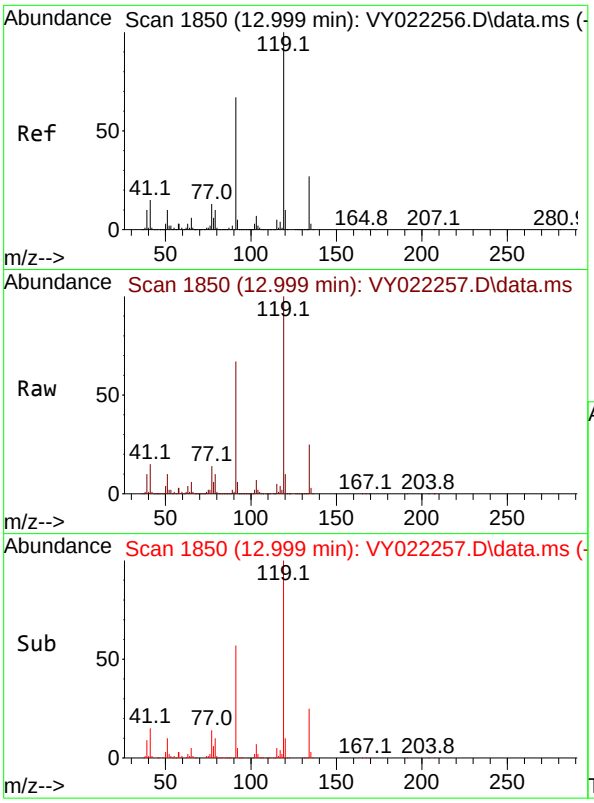


#82
4-Chlorotoluene
Concen: 99.052 ug/l
RT: 12.779 min Scan# 1814
Delta R.T. 0.006 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 91 Resp: 1061772

Ion	Ratio	Lower	Upper
91	100		
126	33.3	16.8	50.4

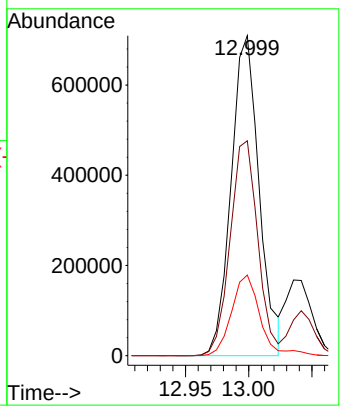




#83
tert-Butylbenzene
Concen: 96.859 ug/l
RT: 12.999 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion:119 Resp: 109261

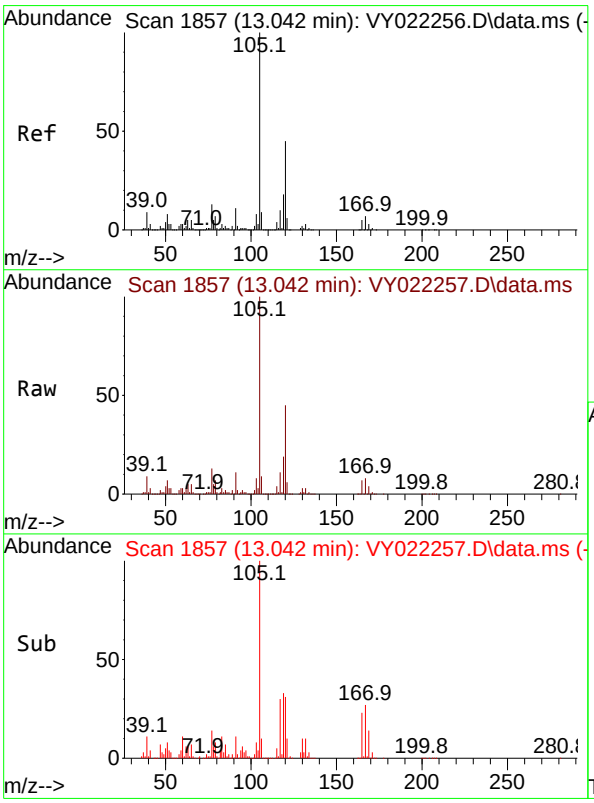
Ion	Ratio	Lower	Upper
119	100		
91	66.3	32.8	98.3
134	25.8	12.9	38.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

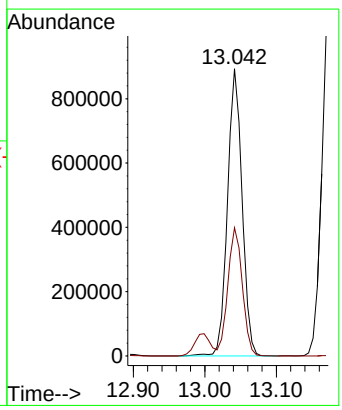
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

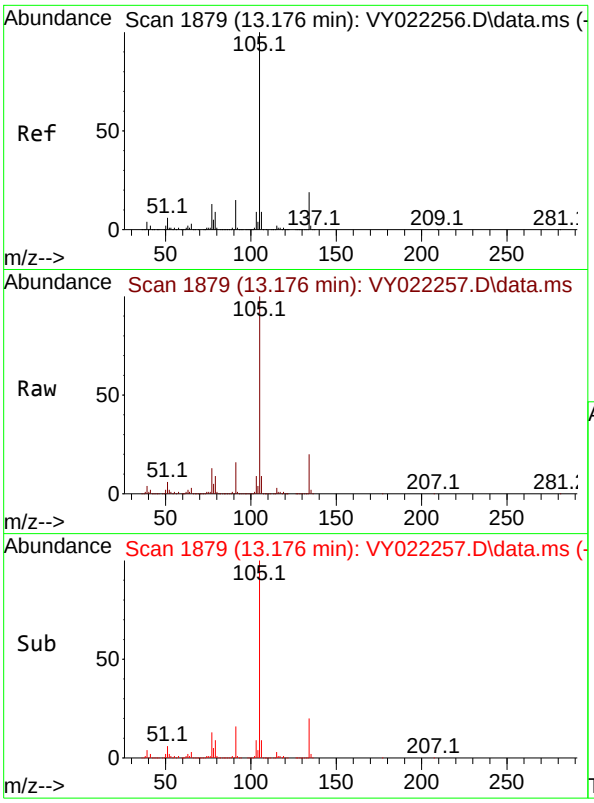


#84
1,2,4-Trimethylbenzene
Concen: 100.297 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion:105 Resp: 1263612

Ion	Ratio	Lower	Upper
105	100		
120	44.3	22.3	66.9





#85
sec-Butylbenzene
Concen: 97.623 ug/l
RT: 13.176 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

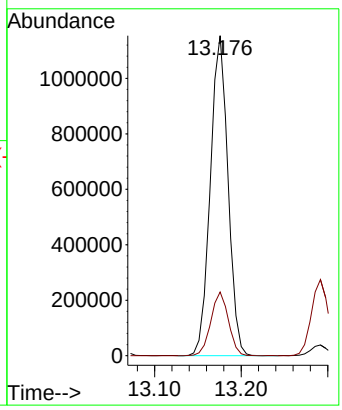
Tgt Ion:105 Resp: 163472

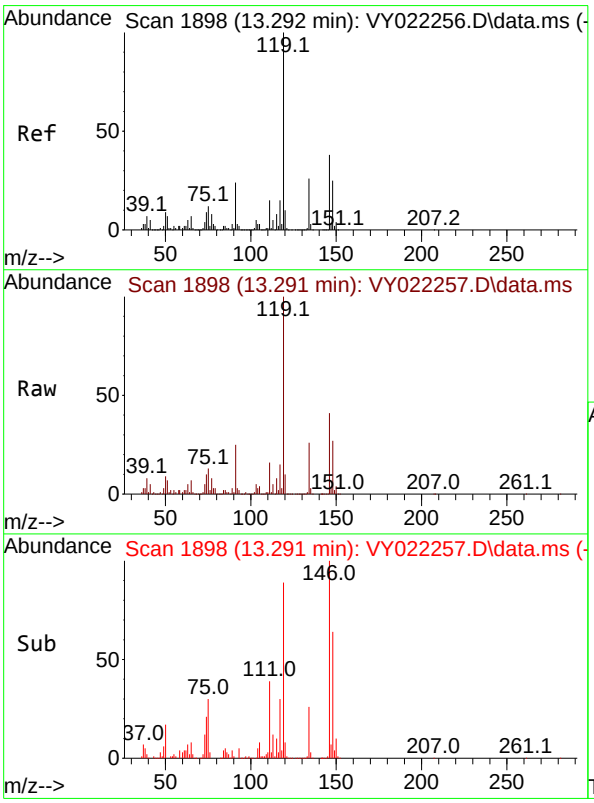
Ion	Ratio	Lower	Upper
105	100		
134	19.8	9.8	29.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

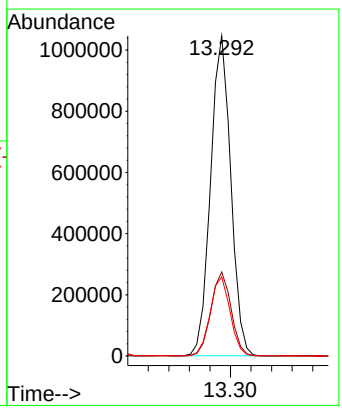


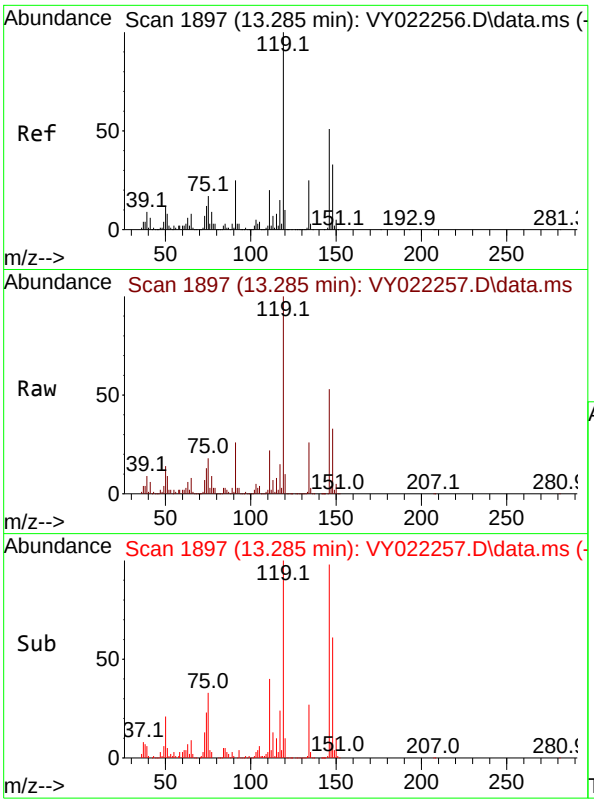


#86
p-Isopropyltoluene
Concen: 101.161 ug/l
RT: 13.291 min Scan# 1898
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion:119 Resp: 1424684

Ion	Ratio	Lower	Upper
119	100		
134	26.2	12.9	38.6
91	24.4	12.1	36.3

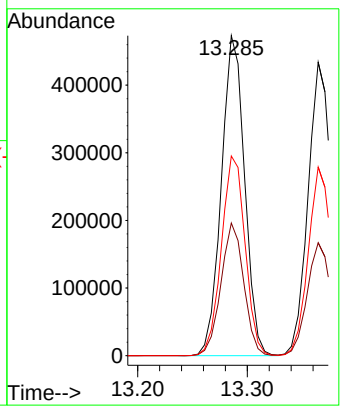




#87
1,3-Dichlorobenzene
Concen: 101.803 ug/l
RT: 13.285 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion:146 Resp: 69786

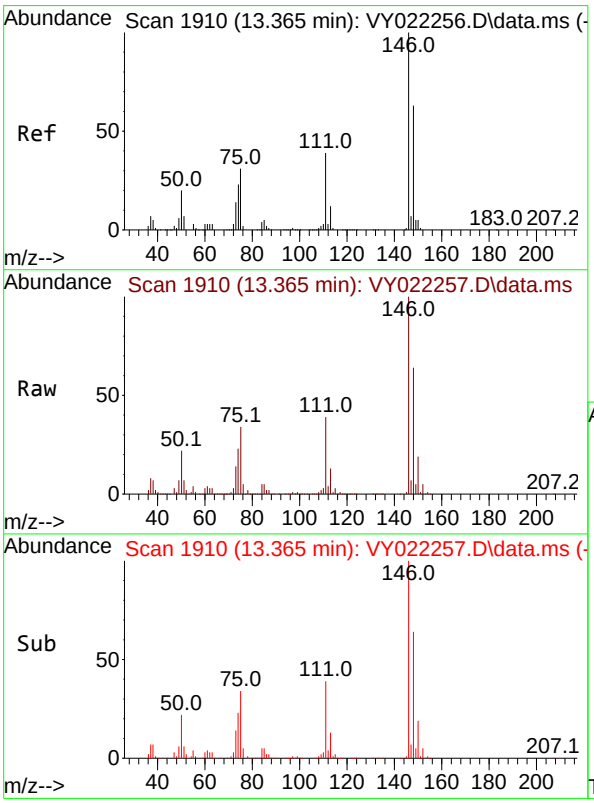
Ion	Ratio	Lower	Upper
146	100		
111	40.7	19.9	59.7
148	63.6	31.9	95.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

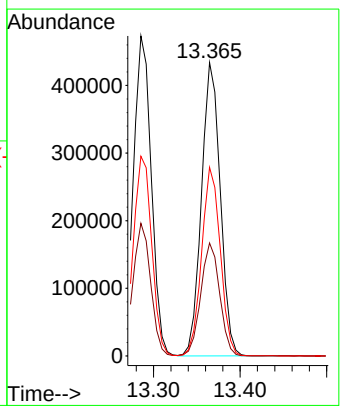
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

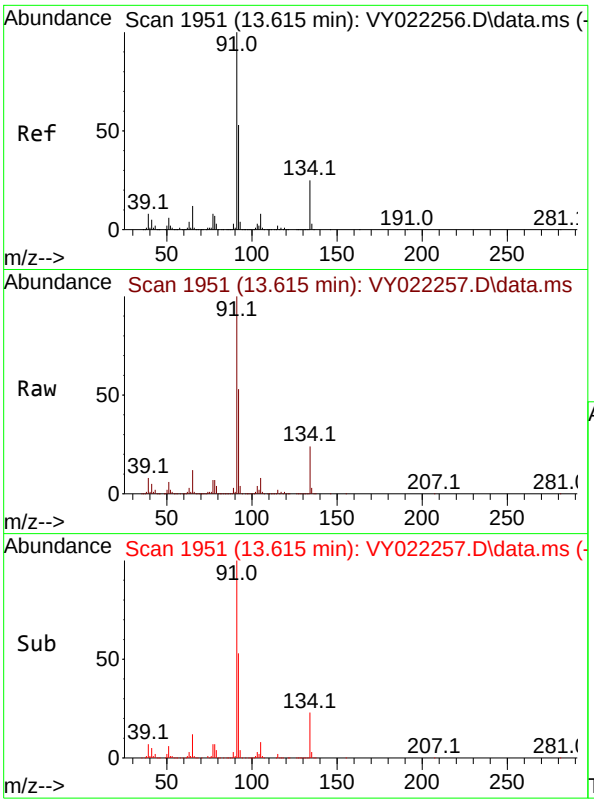


#88
1,4-Dichlorobenzene
Concen: 99.199 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion:146 Resp: 654104

Ion	Ratio	Lower	Upper
146	100		
111	38.6	20.0	59.9
148	63.7	32.1	96.5

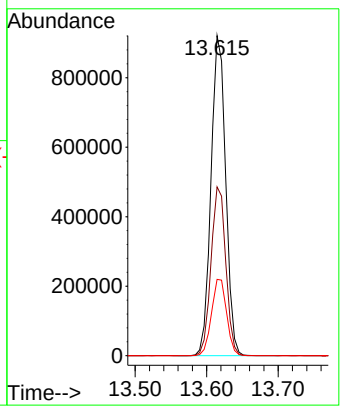




#89
n-Butylbenzene
Concen: 98.327 ug/l
RT: 13.615 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 91 Resp: 131006

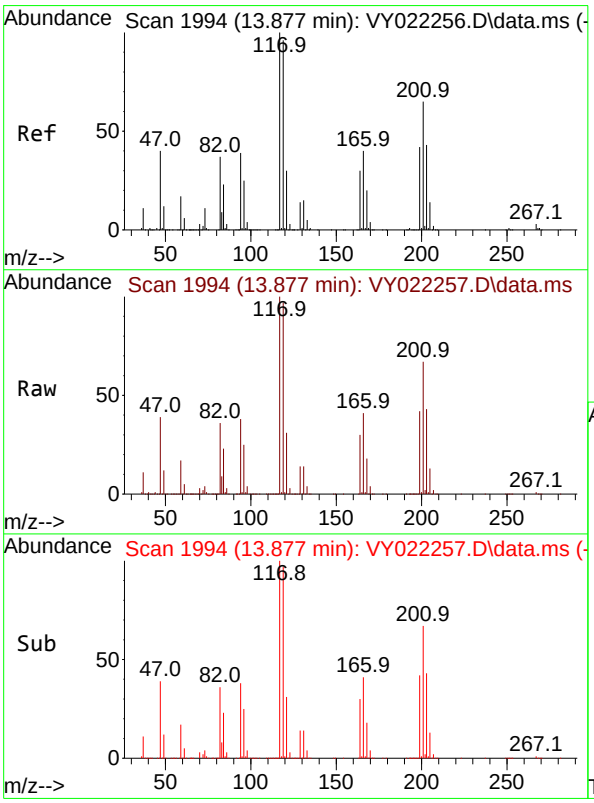
Ion	Ratio	Lower	Upper
91	100		
92	53.1	26.3	78.9
134	24.6	12.4	37.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

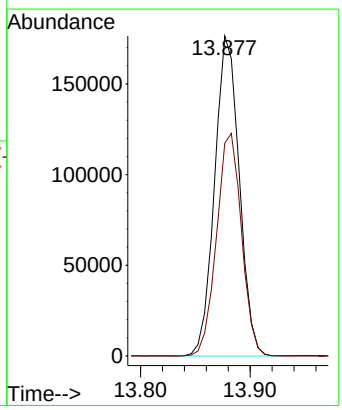
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

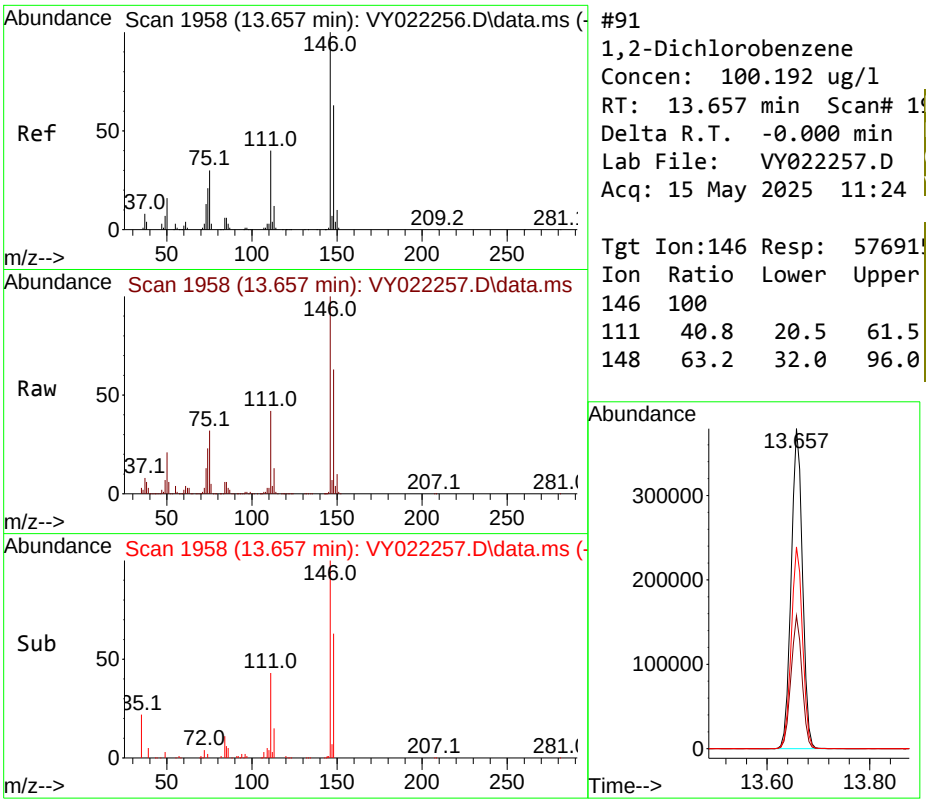


#90
Hexachloroethane
Concen: 96.961 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion:117 Resp: 275652

Ion	Ratio	Lower	Upper
117	100		
201	70.4	35.2	105.6





#91
1,2-Dichlorobenzene
Concen: 100.192 ug/l
RT: 13.657 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

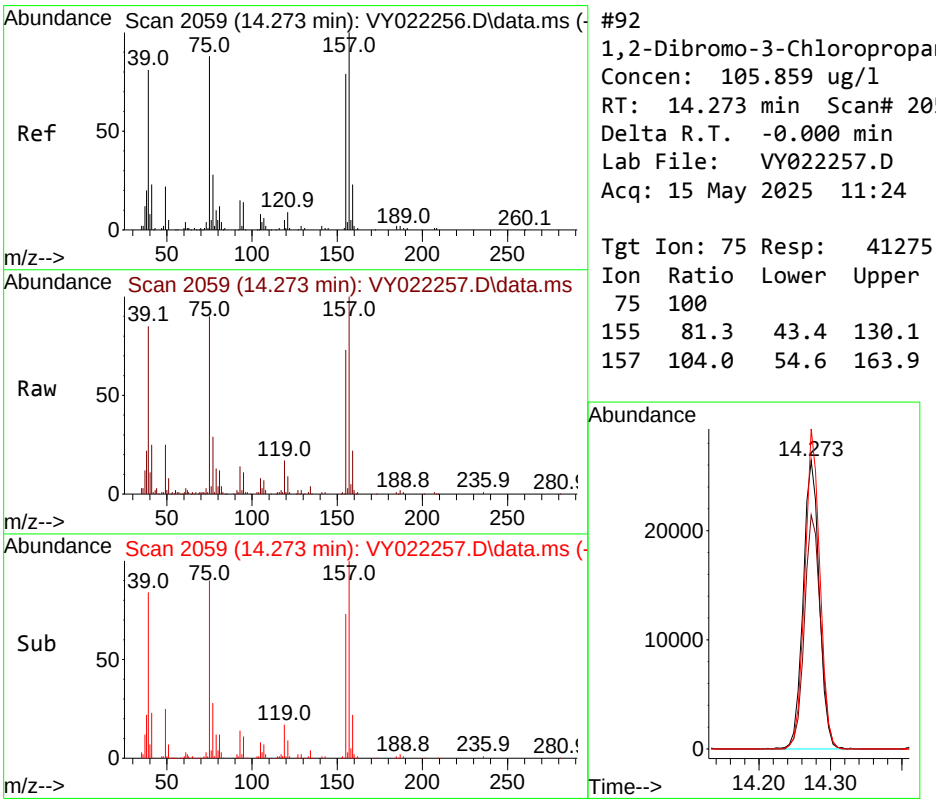
Tgt Ion:146 Resp: 57691

Ion	Ratio	Lower	Upper
146	100		
111	40.8	20.5	61.5
148	63.2	32.0	96.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

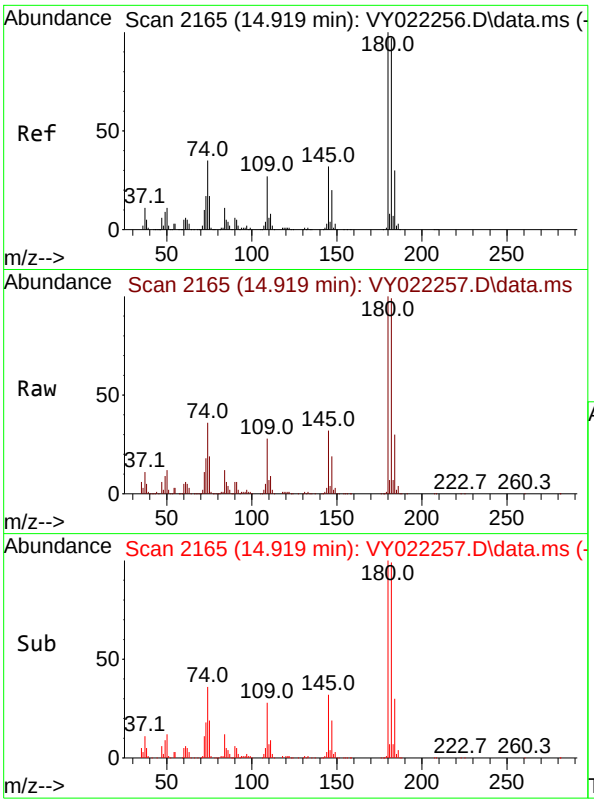
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 105.859 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 75 Resp: 41275

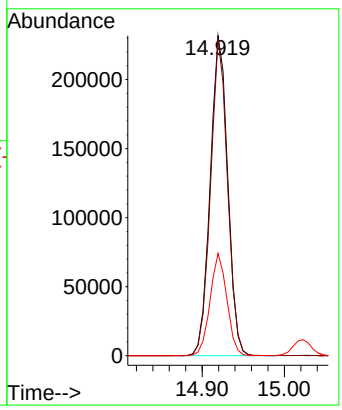
Ion	Ratio	Lower	Upper
75	100		
155	81.3	43.4	130.1
157	104.0	54.6	163.9



#93
1,2,4-Trichlorobenzene
Concen: 103.107 ug/l
RT: 14.919 min Scan# 21
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion:180 Resp: 34293

Ion	Ratio	Lower	Upper
180	100		
182	95.8	48.0	144.0
145	30.7	15.0	45.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
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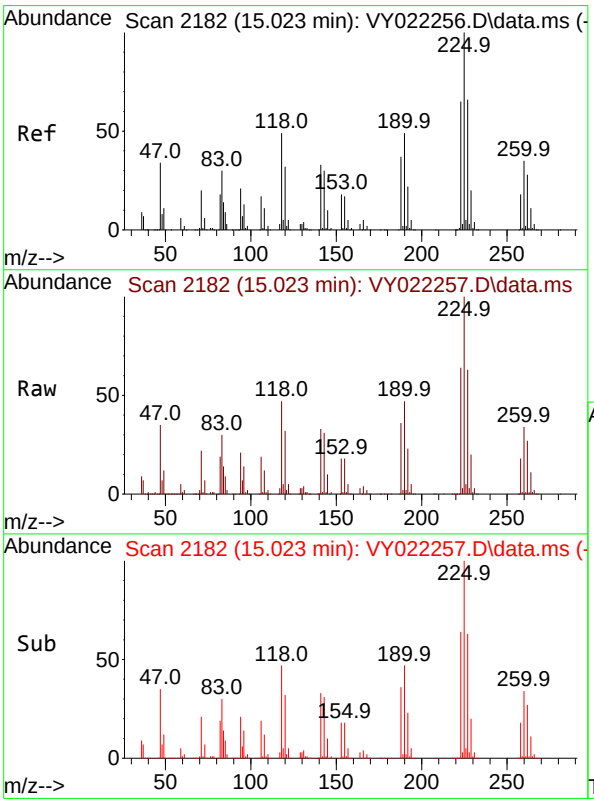
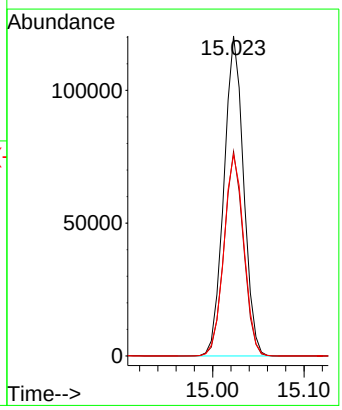
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

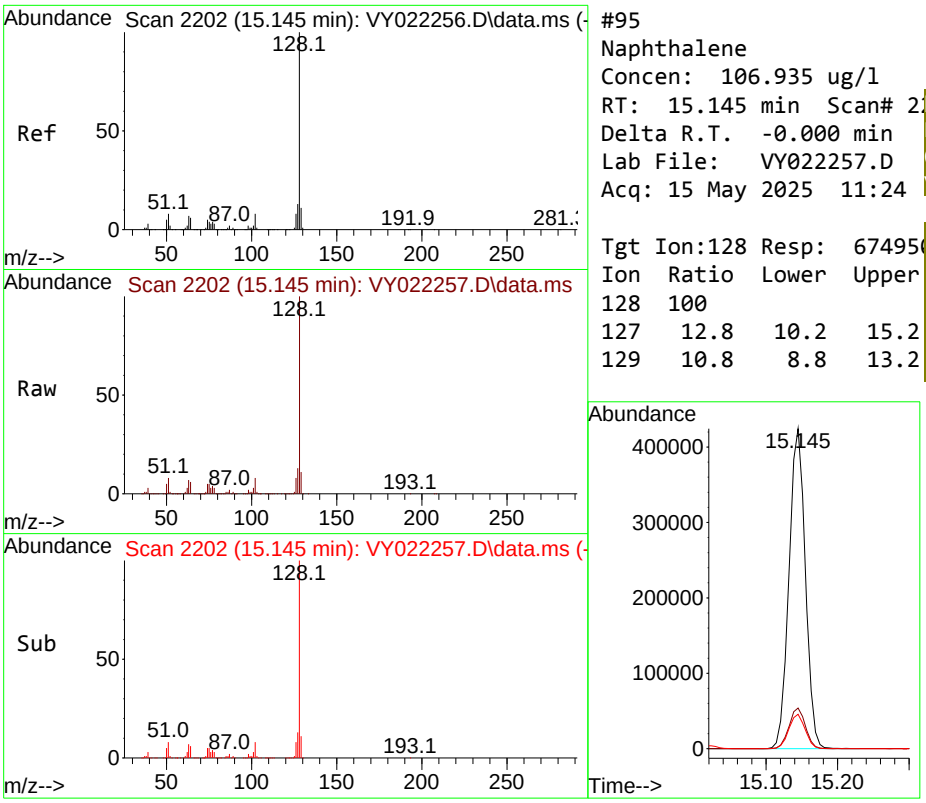


#94
Hexachlorobutadiene
Concen: 97.075 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion:225 Resp: 180060

Ion	Ratio	Lower	Upper
225	100		
223	62.8	31.5	94.5
227	64.1	32.1	96.3





#95
Naphthalene
Concen: 106.935 ug/l
RT: 15.145 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

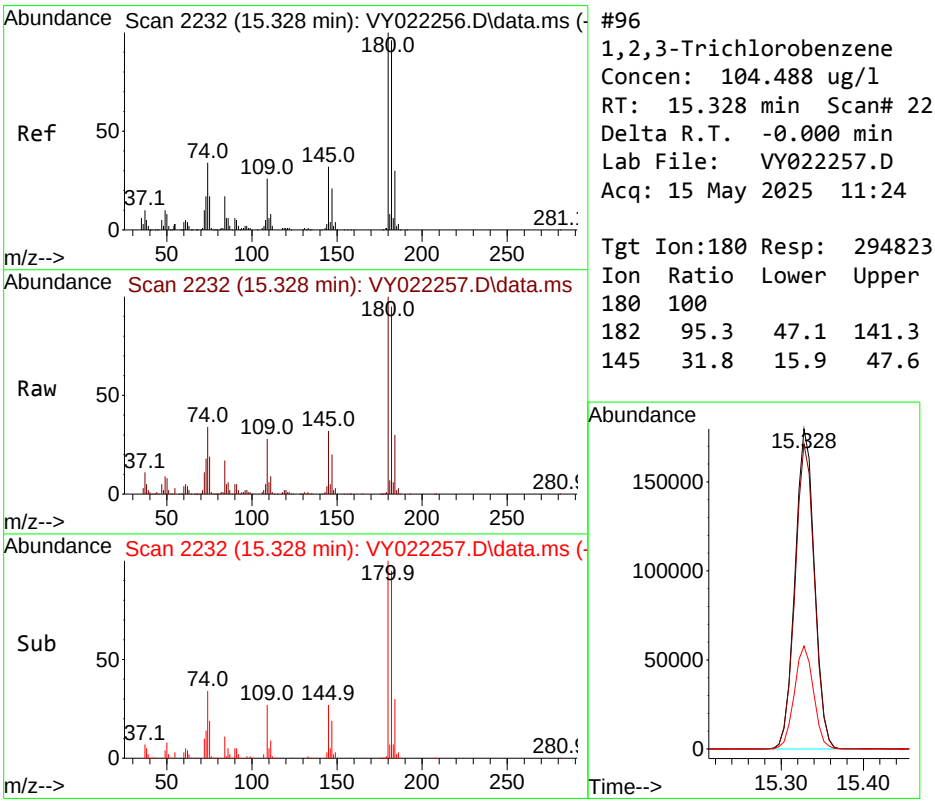
Tgt Ion:128 Resp: 67495

Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.2	15.2
129	10.8	8.8	13.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025



#96
1,2,3-Trichlorobenzene
Concen: 104.488 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion:180 Resp: 294823

Ion	Ratio	Lower	Upper
180	100		
182	95.3	47.1	141.3
145	31.8	15.9	47.6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022258.D
Acq On : 15 May 2025 11:47
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

Quant Time: May 16 01:25:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:19:39 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	7.707	168	271027	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	8.616	114	442917	50.000	ug/l		0.00
63) Chlorobenzene-d5	11.414	117	389769	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	187978	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	8.061	65	455385	153.739	ug/l		0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 307.480%#				
35) Dibromofluoromethane	7.634	113	412318	155.969	ug/l		0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 311.940%#				
50) Toluene-d8	10.103	98	1689714	156.065	ug/l		0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 312.120%#				
62) 4-Bromofluorobenzene	12.402	95	541367	157.751	ug/l		0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 315.500%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.861	85	389593	137.760	ug/l		100
3) Chloromethane	2.068	50	727243	122.246	ug/l		99
4) Vinyl Chloride	2.202	62	902596	135.801	ug/l		97
5) Bromomethane	2.586	94	780107	144.182	ug/l		99
6) Chloroethane	2.727	64	590870	142.898	ug/l		98
7) Trichlorofluoromethane	3.050	101	989291	147.013	ug/l		99
8) Diethyl Ether	3.452	74	236216	146.270	ug/l		99
9) 1,1,2-Trichlorotrifluo...	3.812	101	422397	144.588	ug/l		100
10) Methyl Iodide	4.001	142	518980	153.489	ug/l		98
11) Tert butyl alcohol	4.866	59	172549	762.834	ug/l	#	100
12) 1,1-Dichloroethene	3.787	96	425285	146.697	ug/l		97
13) Acrolein	3.653	56	237291	717.595	ug/l		98
14) Allyl chloride	4.379	41	756728	148.866	ug/l		100
15) Acrylonitrile	5.055	53	512850	770.708	ug/l		100
16) Acetone	3.873	43	375443	675.976	ug/l		99
17) Carbon Disulfide	4.104	76	1365378	144.429	ug/l		100
18) Methyl Acetate	4.385	43	282084	166.915	ug/l		99
19) Methyl tert-butyl Ether	5.116	73	1225258	153.279	ug/l		98
20) Methylene Chloride	4.616	84	448817	125.059	ug/l		99
21) trans-1,2-Dichloroethene	5.110	96	472143	147.547	ug/l		99
22) Diisopropyl ether	6.019	45	1626927	151.557	ug/l		99
23) Vinyl Acetate	5.958	43	4953644	763.831	ug/l		100
24) 1,1-Dichloroethane	5.915	63	879785	146.697	ug/l		99
25) 2-Butanone	6.890	43	708010	762.091	ug/l		98
26) 2,2-Dichloropropane	6.884	77	787195	147.575	ug/l		100
27) cis-1,2-Dichloroethene	6.890	96	563503	152.601	ug/l		100
28) Bromochloromethane	7.244	49	387221	151.369	ug/l		100
29) Tetrahydrofuran	7.262	42	472224	790.072	ug/l		100
30) Chloroform	7.421	83	859317	149.381	ug/l		98
31) Cyclohexane	7.701	56	821784	137.144	ug/l		98
32) 1,1,1-Trichloroethane	7.616	97	784014	148.554	ug/l		99
36) 1,1-Dichloropropene	7.835	75	658871	151.316	ug/l		99
37) Ethyl Acetate	6.982	43	320686	153.067	ug/l		99
38) Carbon Tetrachloride	7.817	117	696139	154.450	ug/l		100
39) Methylcyclohexane	9.110	83	886329	151.510	ug/l		98
40) Benzene	8.079	78	1987535	153.973	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022258.D
Acq On : 15 May 2025 11:47
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 16 01:25:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:19:39 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.220	41	202603m	132.161	ug/l		
42) 1,2-Dichloroethane	8.159	62	534517	153.124	ug/l		99
43) Isopropyl Acetate	8.195	43	704366	154.159	ug/l	#	89
44) Trichloroethene	8.866	130	481990	150.171	ug/l		96
45) 1,2-Dichloropropane	9.140	63	472217	151.736	ug/l		97
46) Dibromomethane	9.231	93	258087	153.757	ug/l		99
47) Bromodichloromethane	9.420	83	669834	153.824	ug/l		99
48) Methyl methacrylate	9.219	41	344147	161.060	ug/l		99
49) 1,4-Dioxane	9.231	88	61019	3217.888	ug/l		95
51) 4-Methyl-2-Pentanone	10.000	43	1829015	815.822	ug/l		99
52) Toluene	10.170	92	1276917	156.216	ug/l		99
53) t-1,3-Dichloropropene	10.390	75	663513	156.134	ug/l		100
54) cis-1,3-Dichloropropene	9.853	75	754493	154.963	ug/l		99
55) 1,1,2-Trichloroethane	10.573	97	330716	153.863	ug/l		99
56) Ethyl methacrylate	10.439	69	535897	160.058	ug/l		99
57) 1,3-Dichloropropane	10.719	76	584253	152.987	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.713	63	1350536	898.675	ug/l		99
59) 2-Hexanone	10.762	43	1227881	816.860	ug/l		99
60) Dibromochloromethane	10.908	129	438666	157.237	ug/l		99
61) 1,2-Dibromoethane	11.012	107	308529	154.008	ug/l		99
64) Tetrachloroethene	10.646	164	501627	139.237	ug/l		100
65) Chlorobenzene	11.438	112	1336594	151.997	ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.518	131	480525	158.952	ug/l		100
67) Ethyl Benzene	11.518	91	2598027	157.756	ug/l		99
68) m/p-Xylenes	11.627	106	1992413	321.066	ug/l		99
69) o-Xylene	11.957	106	937727	159.714	ug/l		99
70) Styrene	11.969	104	1613798	162.944	ug/l		100
71) Bromoform	12.133	173	254251	155.818	ug/l	#	99
73) Isopropylbenzene	12.255	105	2357568	151.387	ug/l		100
74) N-amyl acetate	12.066	43	694999	156.041	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.505	83	375378	156.735	ug/l		100
76) 1,2,3-Trichloropropane	12.554	75	289968m	87.525	ug/l		
77) Bromobenzene	12.530	156	509579	153.206	ug/l		99
78) n-propylbenzene	12.591	91	2822794	150.276	ug/l		100
79) 2-Chlorotoluene	12.676	91	1563003	151.415	ug/l		100
80) 1,3,5-Trimethylbenzene	12.737	105	1888432	150.219	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.304	75	139931	148.846	ug/l		99
82) 4-Chlorotoluene	12.774	91	1616520	152.250	ug/l		99
83) tert-Butylbenzene	12.993	119	1699962	152.144	ug/l		100
84) 1,2,4-Trimethylbenzene	13.042	105	1934641	155.030	ug/l		100
85) sec-Butylbenzene	13.176	105	2493393	150.330	ug/l		100
86) p-Isopropyltoluene	13.292	119	2205275	158.088	ug/l		99
87) 1,3-Dichlorobenzene	13.286	146	1079479	158.981	ug/l		99
88) 1,4-Dichlorobenzene	13.365	146	969874	148.497	ug/l		99
89) n-Butylbenzene	13.615	91	1992554	150.985	ug/l		99
90) Hexachloroethane	13.877	117	417341	148.208	ug/l		99
91) 1,2-Dichlorobenzene	13.658	146	858733	150.565	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.273	75	58383	151.172	ug/l		99
93) 1,2,4-Trichlorobenzene	14.919	180	508537	154.361	ug/l		99
94) Hexachlorobutadiene	15.023	225	261832	142.514	ug/l		100
95) Naphthalene	15.139	128	979369	156.653	ug/l		100
96) 1,2,3-Trichlorobenzene	15.328	180	426231	152.509	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022258.D
Acq On : 15 May 2025 11:47
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

Quant Time: May 16 01:25:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:19:39 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022258.D
Acq On : 15 May 2025 11:47
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 16 01:25:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:19:39 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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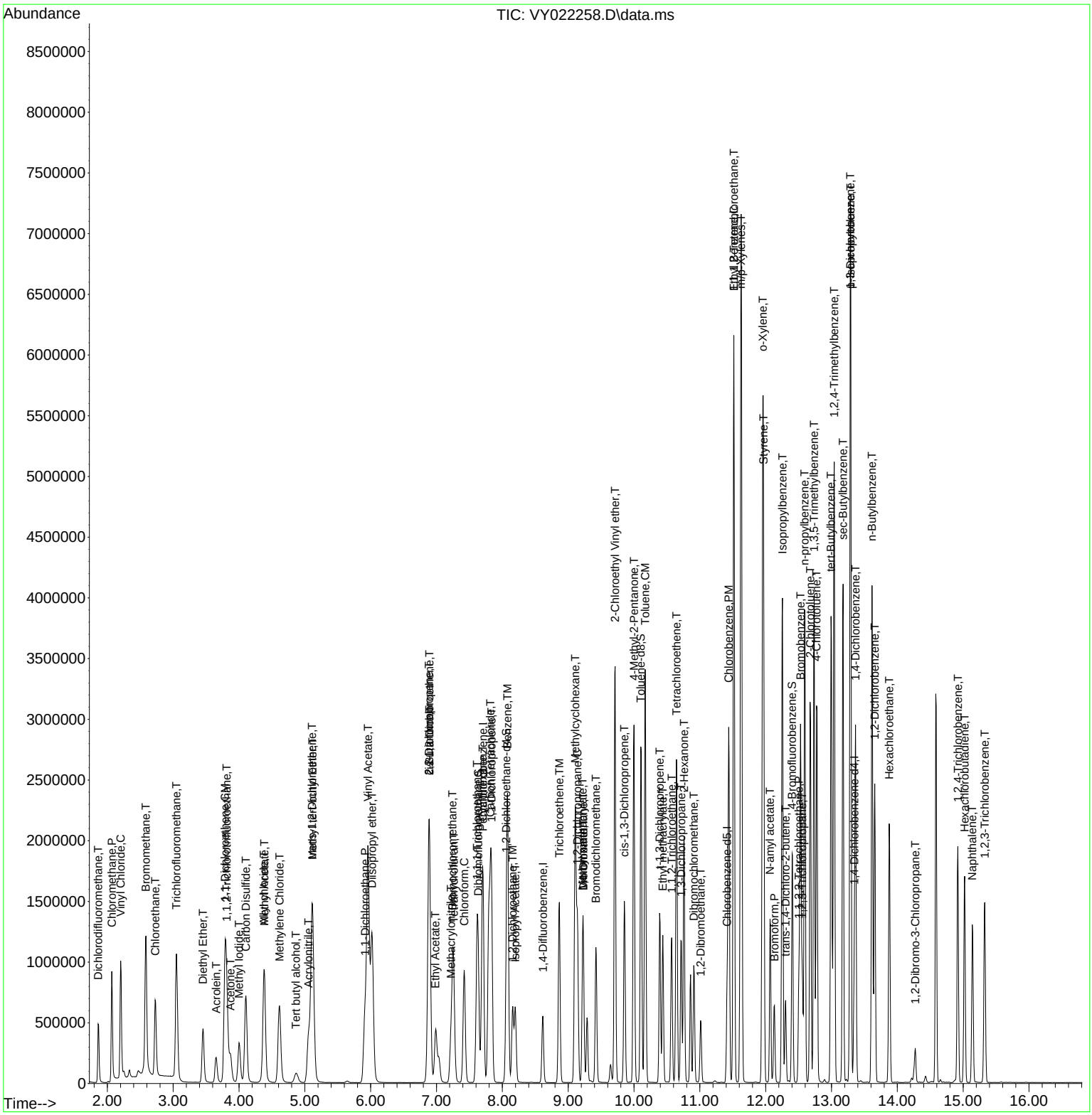
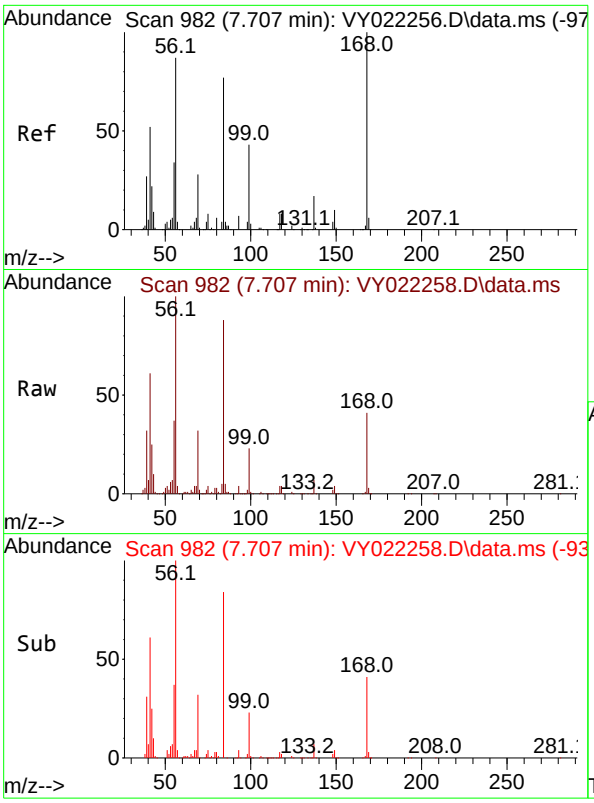
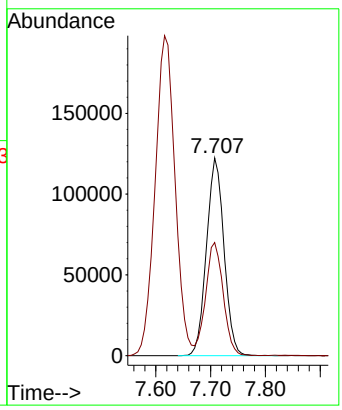




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion:168 Resp: 27102

Ion	Ratio	Lower	Upper
168	100		
99	57.0	44.2	66.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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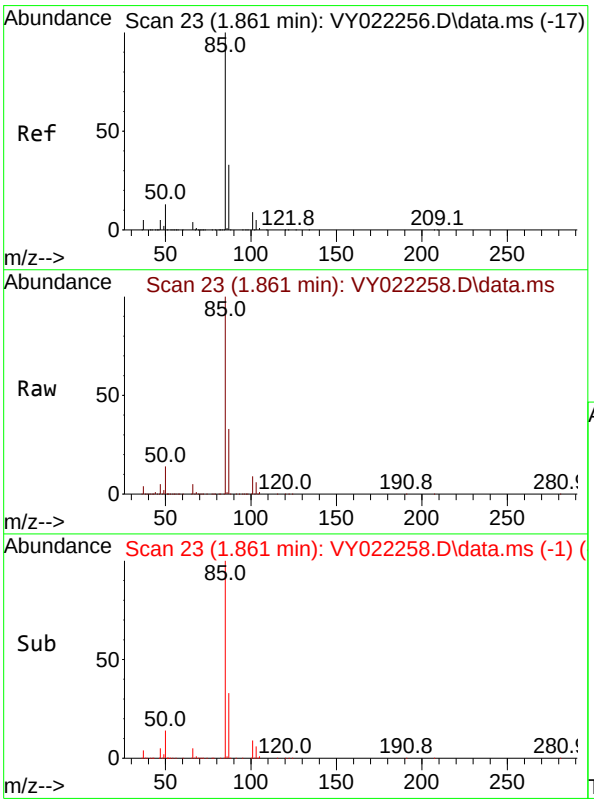
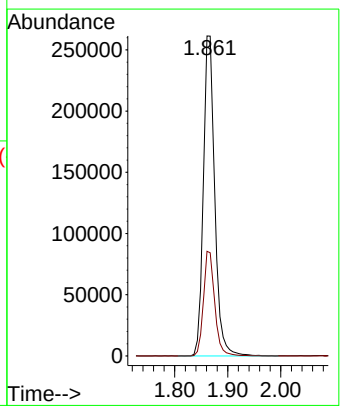
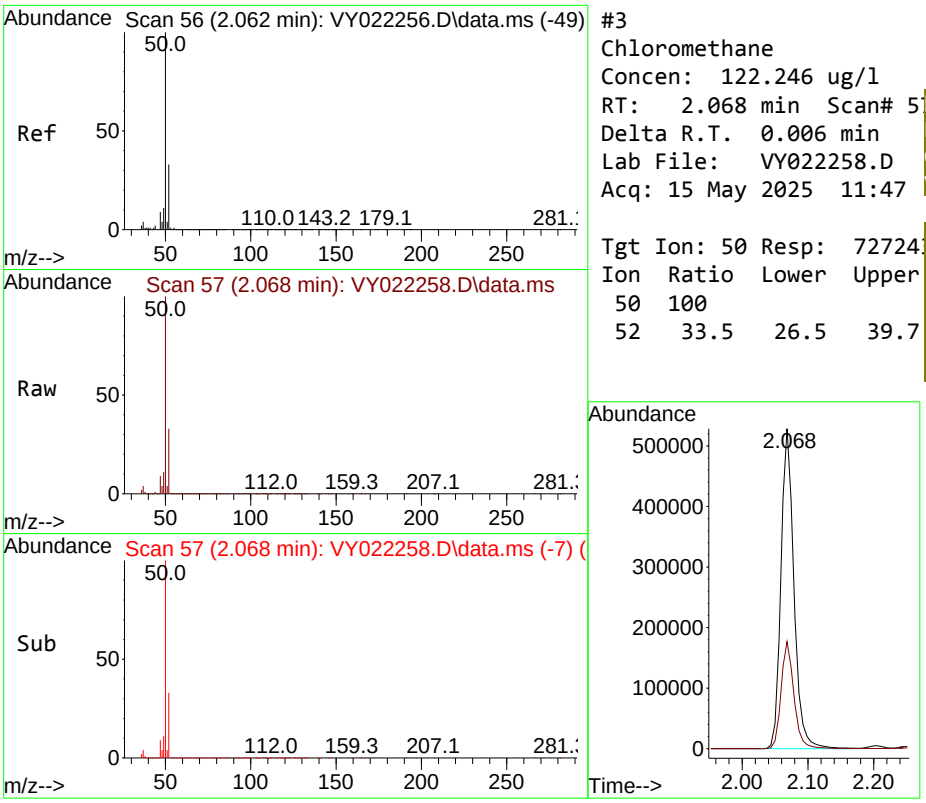


#2
Dichlorodifluoromethane
Concen: 137.760 ug/l
RT: 1.861 min Scan# 23
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 85 Resp: 389593

Ion	Ratio	Lower	Upper
85	100		
87	32.7	16.5	49.5





#3
Chloromethane
Concen: 122.246 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 50 Resp: 72724

Ion	Ratio	Lower	Upper
50	100		
52	33.5	26.5	39.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
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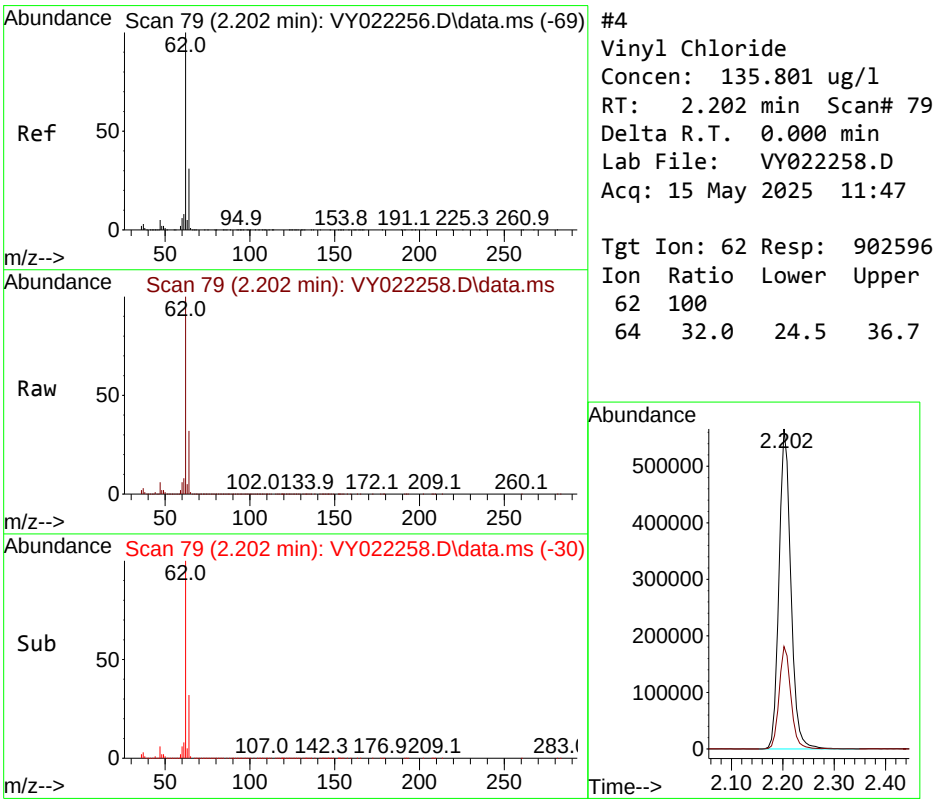
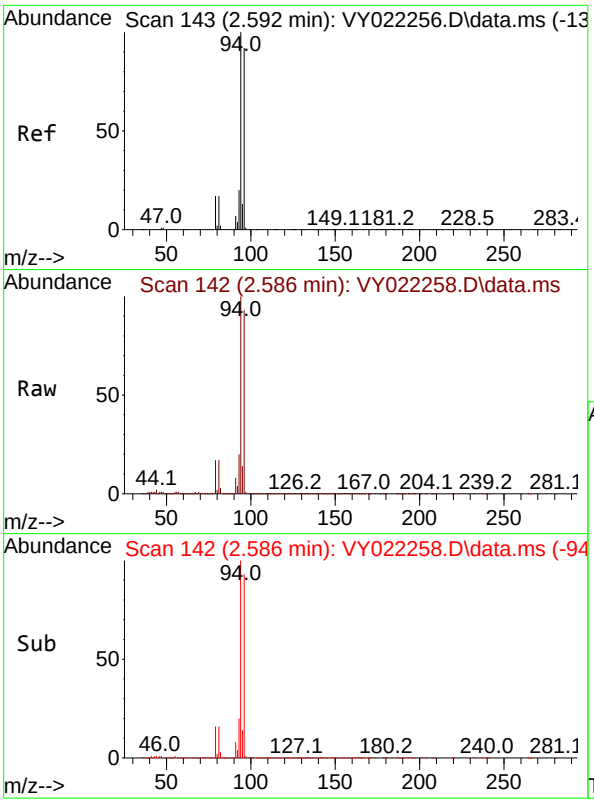


#4
Vinyl Chloride
Concen: 135.801 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 62 Resp: 902596

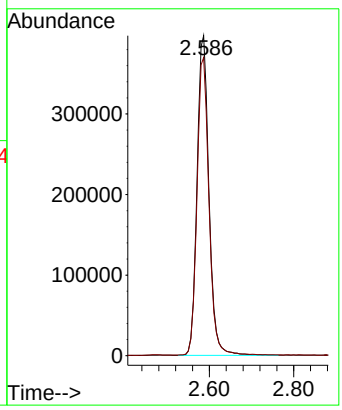
Ion	Ratio	Lower	Upper
62	100		
64	32.0	24.5	36.7



#5
Bromomethane
Concen: 144.182 ug/l
RT: 2.586 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 94 Resp: 78010

Ion	Ratio	Lower	Upper
94	100		
96	93.0	73.4	110.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
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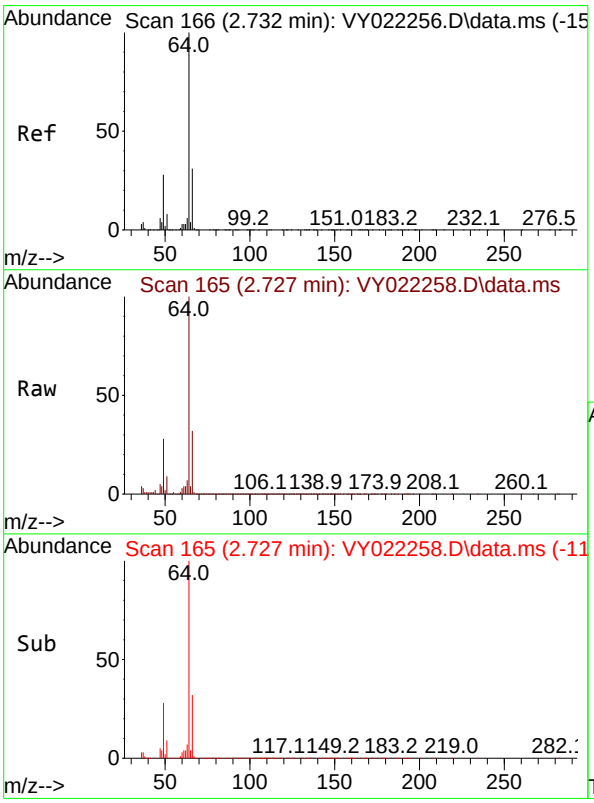
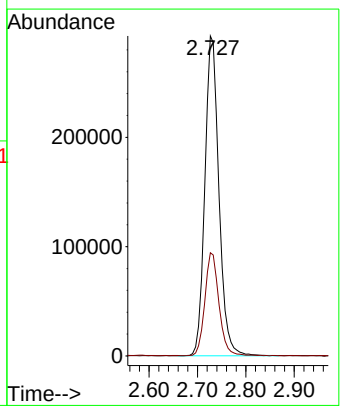
Supervised By :Semsettin Yesilyurt 05/16/2025

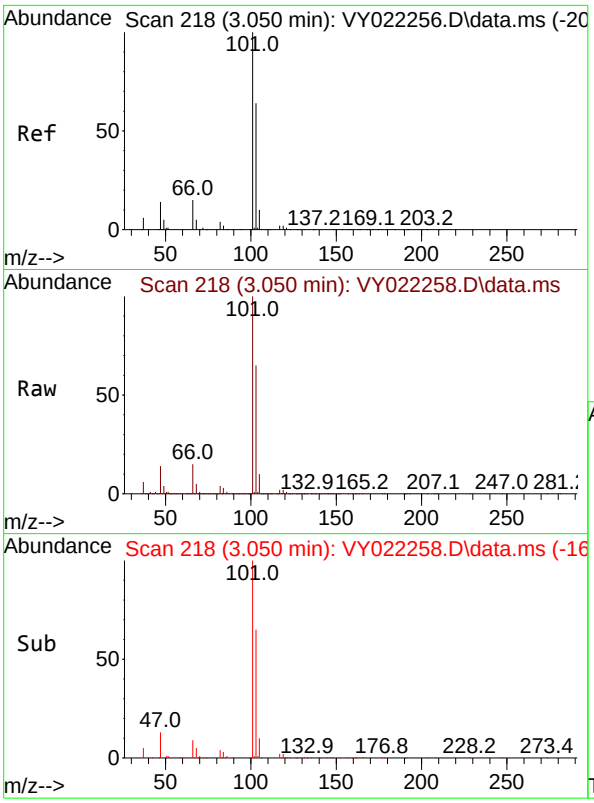


#6
Chloroethane
Concen: 142.898 ug/l
RT: 2.727 min Scan# 165
Delta R.T. -0.006 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 64 Resp: 590870

Ion	Ratio	Lower	Upper
64	100		
66	32.2	24.8	37.2

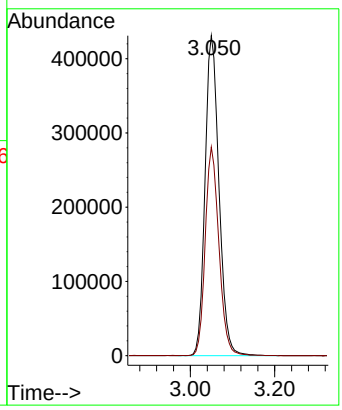




#7
Trichlorofluoromethane
Concen: 147.013 ug/l
RT: 3.050 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion:101 Resp: 98929

Ion	Ratio	Lower	Upper
101	100		
103	65.2	51.7	77.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
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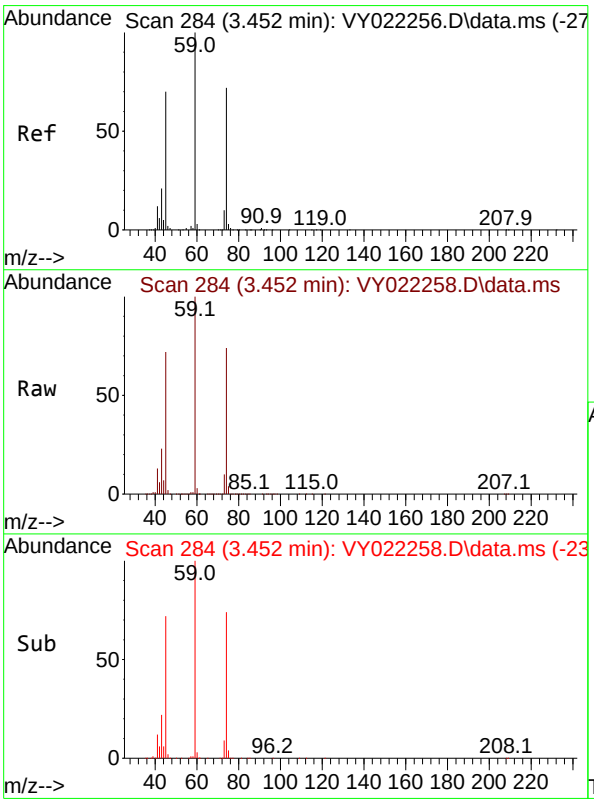
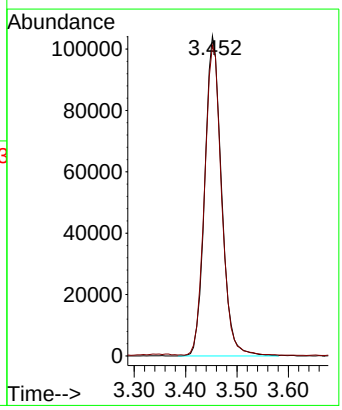
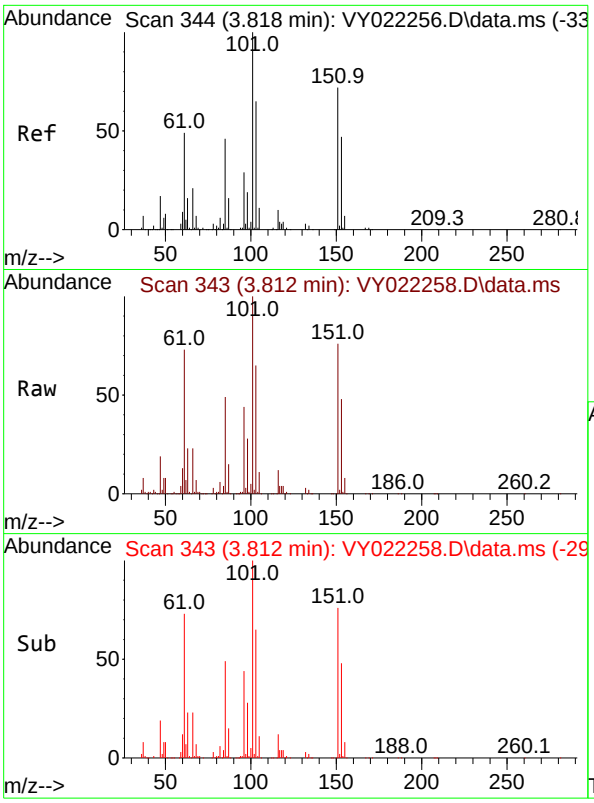


#8
Diethyl Ether
Concen: 146.270 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 74 Resp: 236216

Ion	Ratio	Lower	Upper
74	100		
45	97.9	48.6	145.8





#9
1,1,2-Trichlorotrifluoroethane
Concen: 144.588 ug/l
RT: 3.812 min Scan# 34
Delta R.T. -0.006 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion:101 Resp: 42239

Ion	Ratio	Lower	Upper
101	100		
85	48.2	38.6	58.0
151	75.2	59.7	89.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
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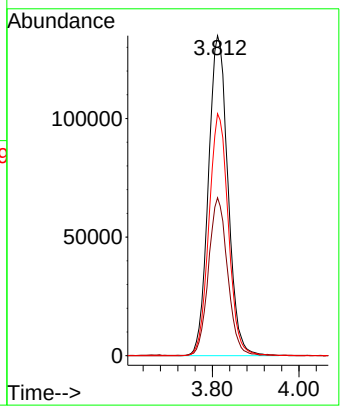
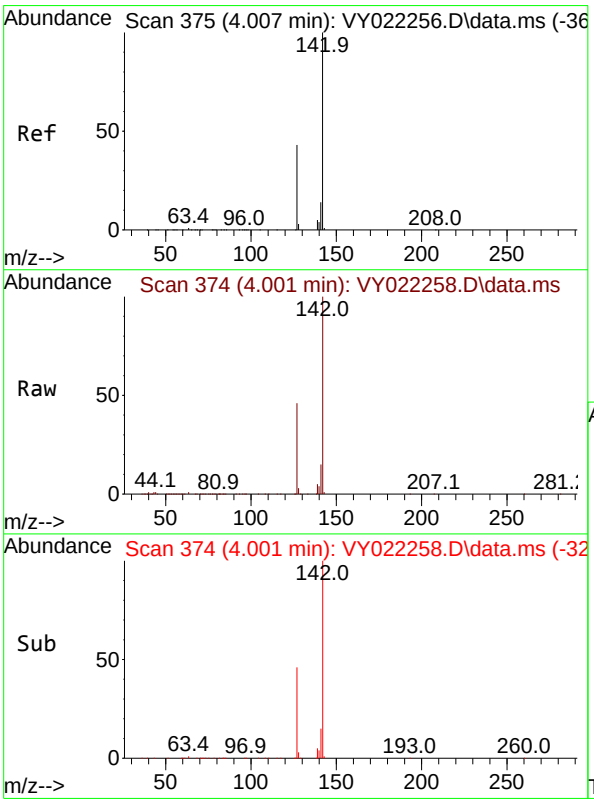
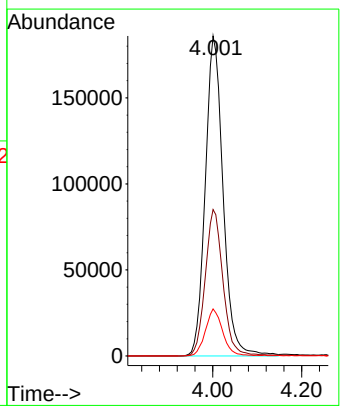


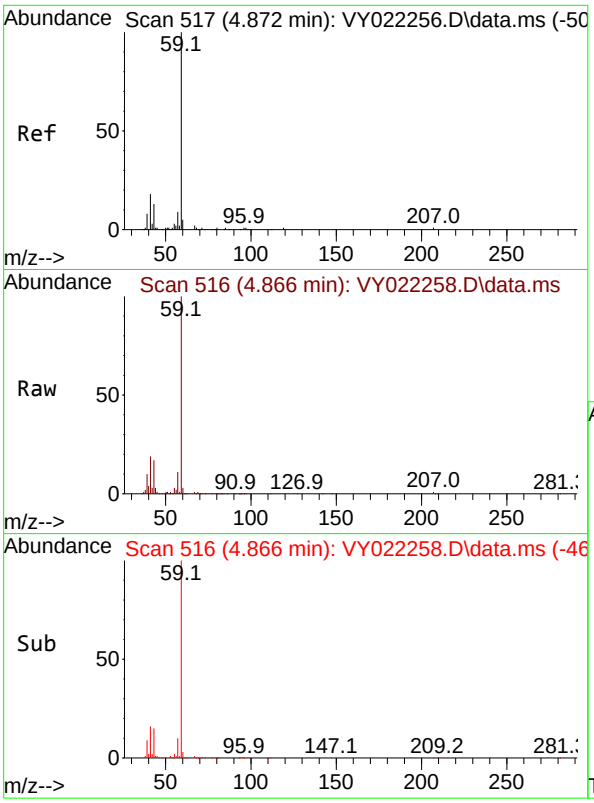


#10
Methyl Iodide
Concen: 153.489 ug/l
RT: 4.001 min Scan# 374
Delta R.T. -0.006 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion:142 Resp: 518980

Ion	Ratio	Lower	Upper
142	100		
127	45.8	35.7	53.5
141	14.3	11.1	16.7

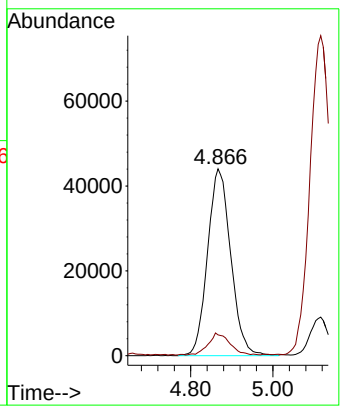




#11
Tert butyl alcohol
Concen: 762.834 ug/l
RT: 4.866 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 59 Resp: 17254

Ion	Ratio	Lower	Upper
59	100		
57	10.9	0.0	0.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
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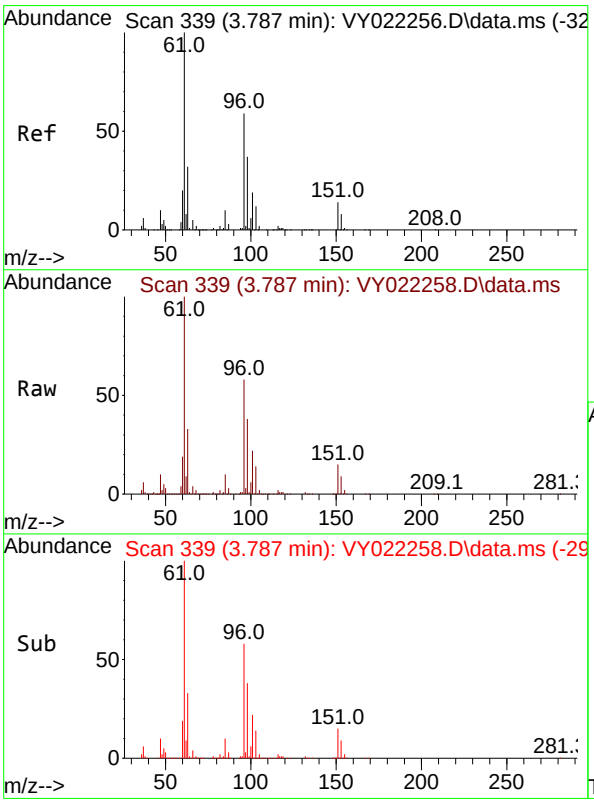
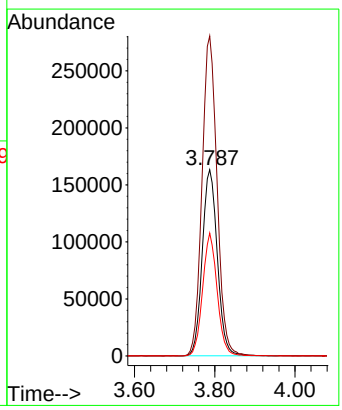
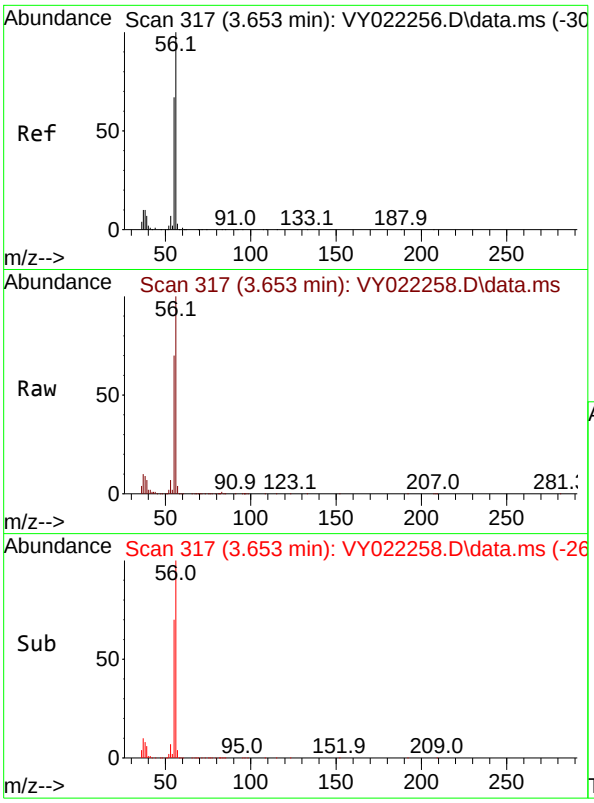


#12
1,1-Dichloroethene
Concen: 146.697 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 96 Resp: 425285

Ion	Ratio	Lower	Upper
96	100		
61	171.9	134.9	202.3
98	65.9	49.9	74.9

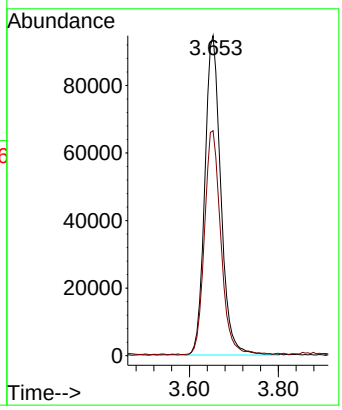




#13
Acrolein
Concen: 717.595 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 56 Resp: 23729

Ion	Ratio	Lower	Upper
56	100		
55	71.5	55.6	83.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

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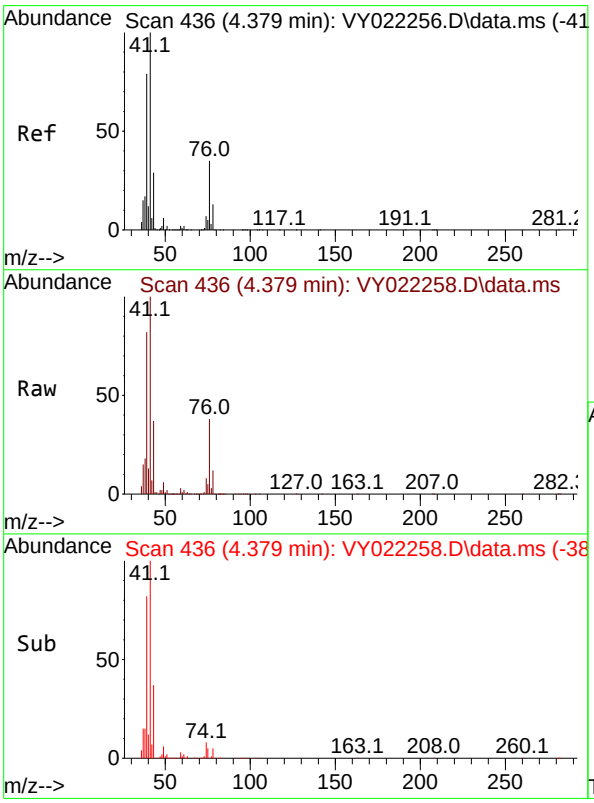
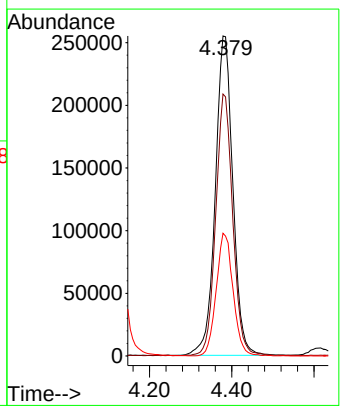
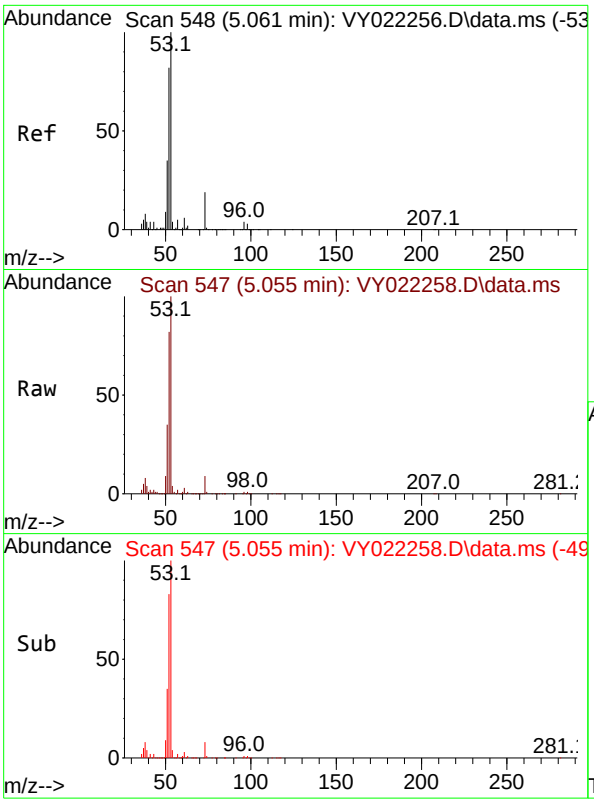


#14
Allyl chloride
Concen: 148.866 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 41 Resp: 756728

Ion	Ratio	Lower	Upper
41	100		
39	79.2	63.4	95.0
76	36.8	29.5	44.3

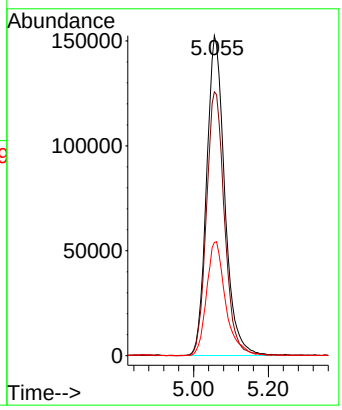




#15
Acrylonitrile
Concen: 770.708 ug/l
RT: 5.055 min Scan# 54
Delta R.T. -0.006 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 53 Resp: 51285

Ion	Ratio	Lower	Upper
53	100		
52	82.4	66.1	99.1
51	37.5	30.0	45.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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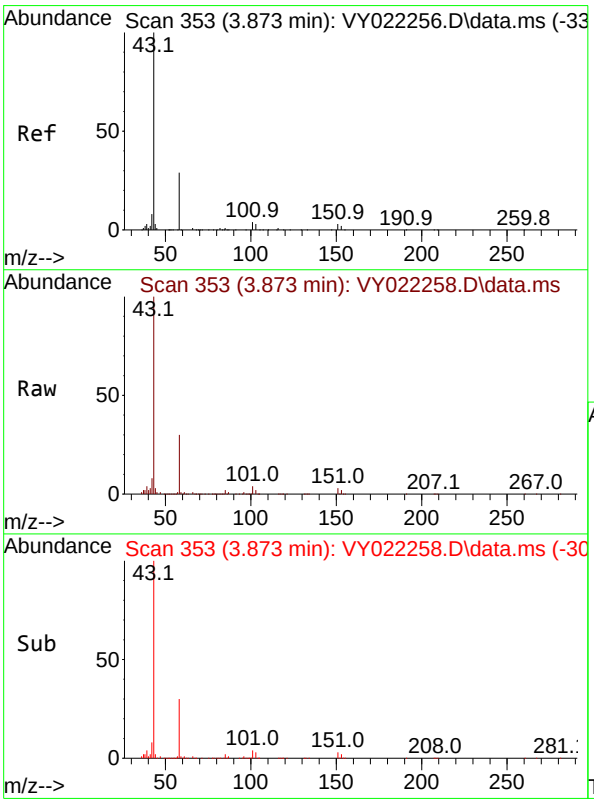
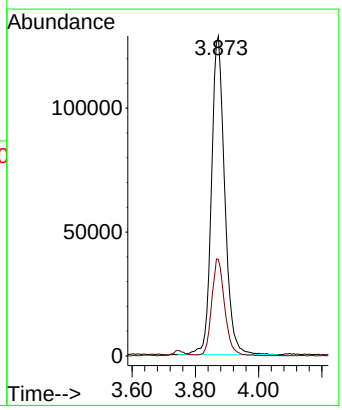
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

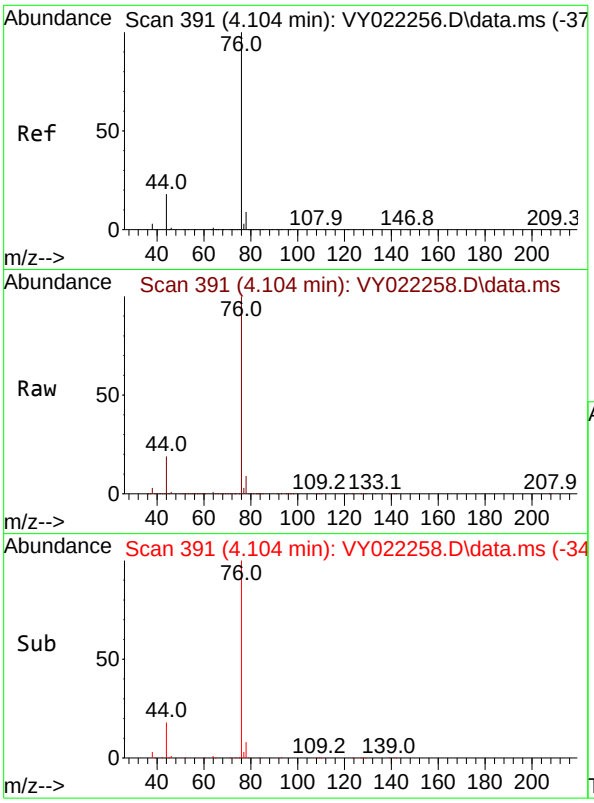


#16
Acetone
Concen: 675.976 ug/l
RT: 3.873 min Scan# 353
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 43 Resp: 375443

Ion	Ratio	Lower	Upper
43	100		
58	30.2	23.6	35.4

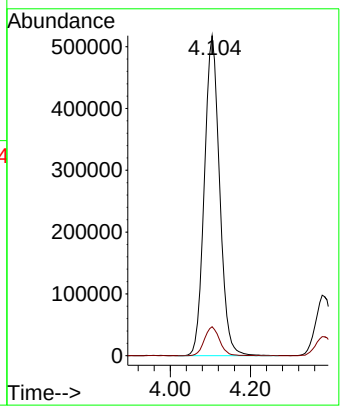




#17
Carbon Disulfide
Concen: 144.429 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 76 Resp: 136537

Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.2	10.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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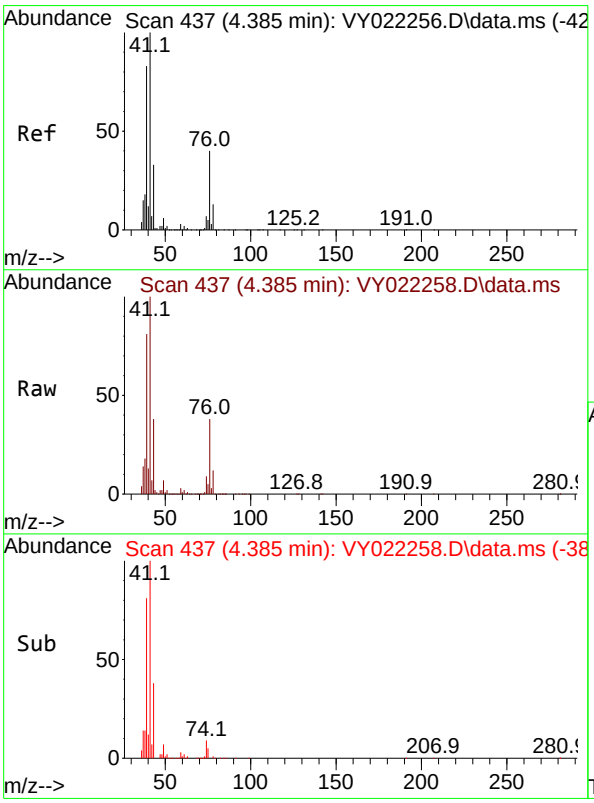
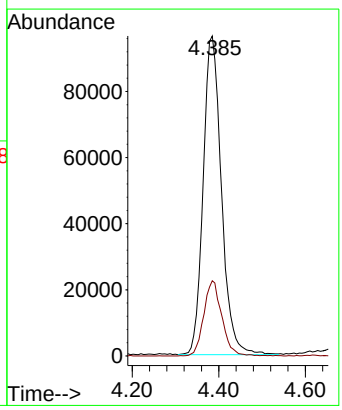
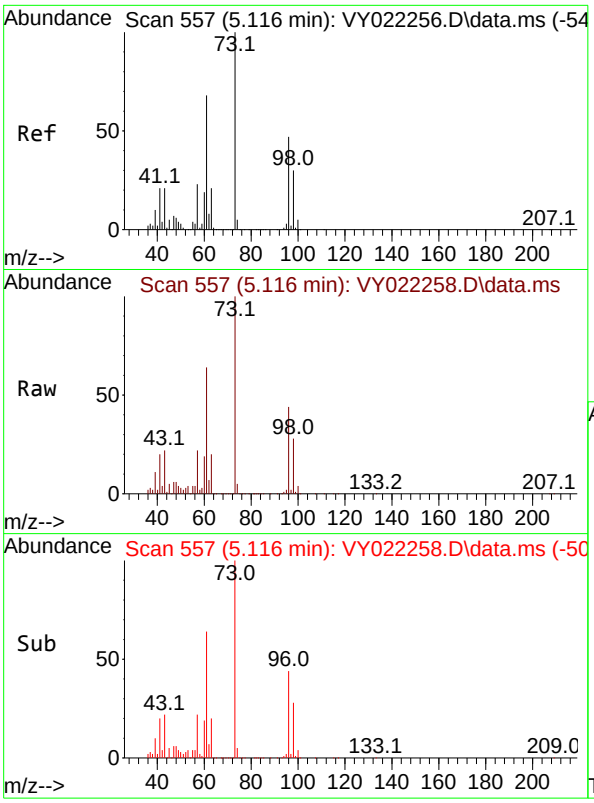


#18
Methyl Acetate
Concen: 166.915 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 43 Resp: 282084

Ion	Ratio	Lower	Upper
43	100		
74	23.4	18.2	27.4

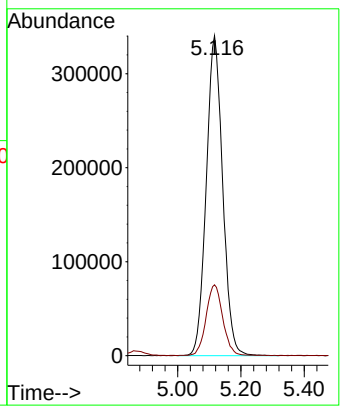




#19
Methyl tert-butyl Ether
Concen: 153.279 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 73 Resp: 122525

Ion	Ratio	Lower	Upper
73	100		
57	22.1	18.6	28.0



Instrument :
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ClientSampleId :
VSTDICC150

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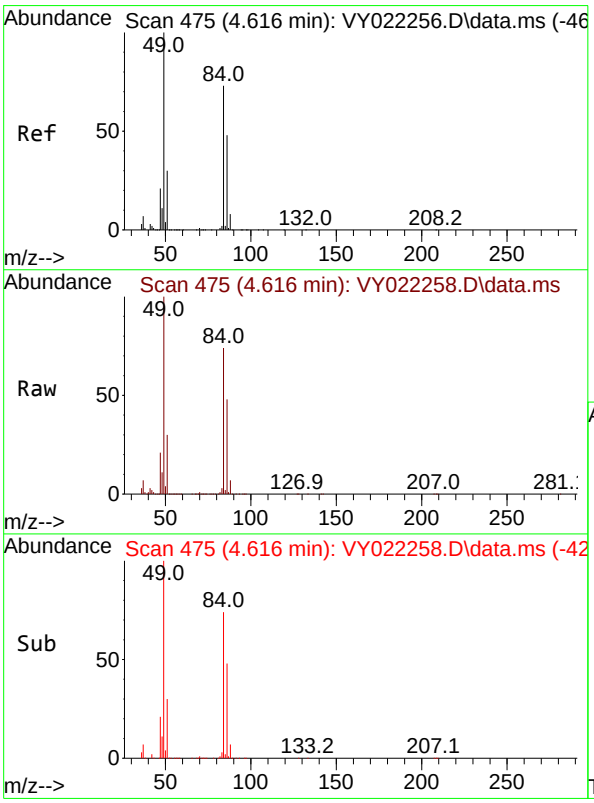
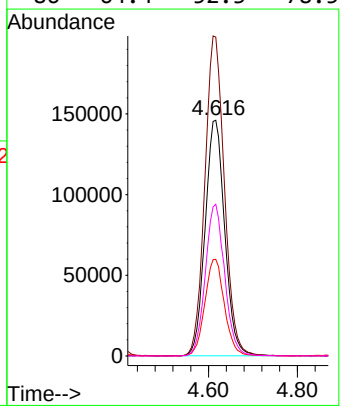
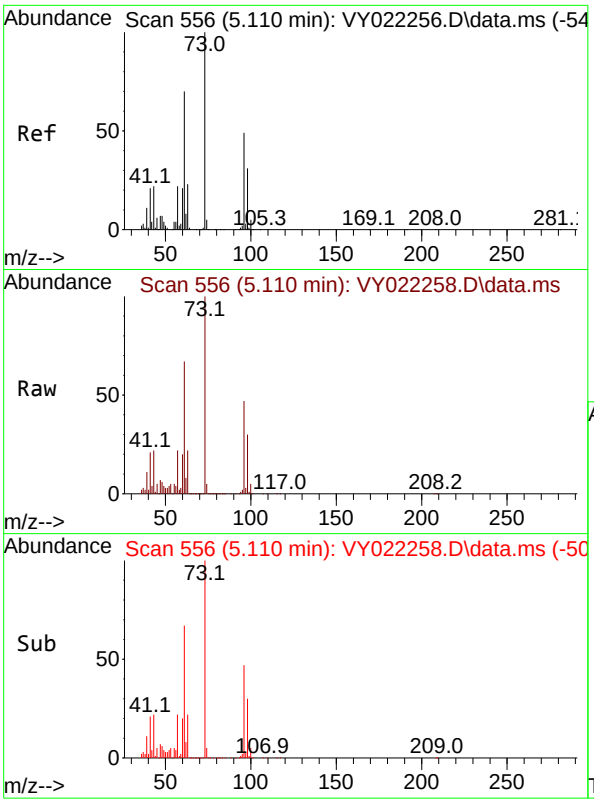


#20
Methylene Chloride
Concen: 125.059 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 84 Resp: 448817

Ion	Ratio	Lower	Upper
84	100		
49	135.3	109.6	164.4
51	40.9	32.4	48.6
86	64.4	52.3	78.5

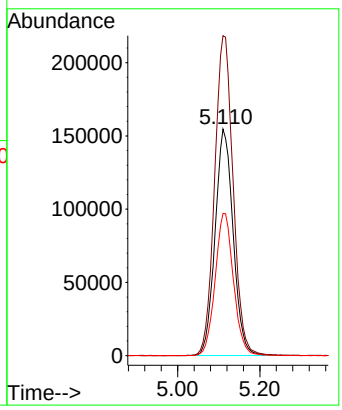




#21
trans-1,2-Dichloroethene
Concen: 147.547 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 96 Resp: 47214

Ion	Ratio	Lower	Upper
96	100		
61	141.3	113.4	170.0
98	62.8	50.9	76.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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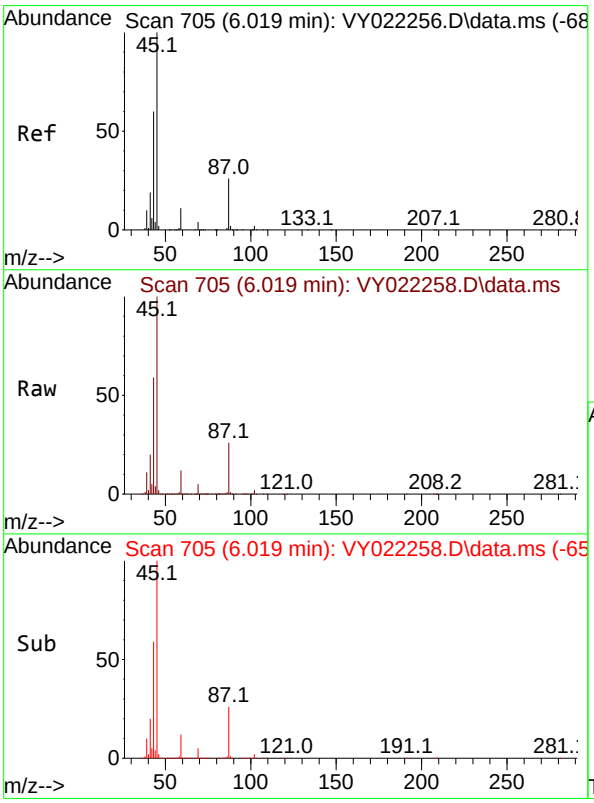
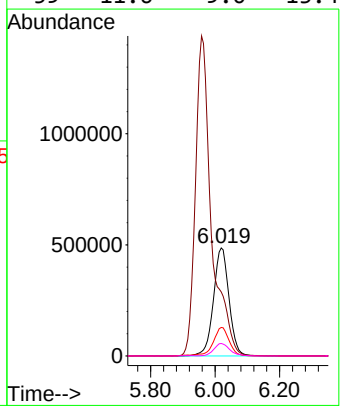
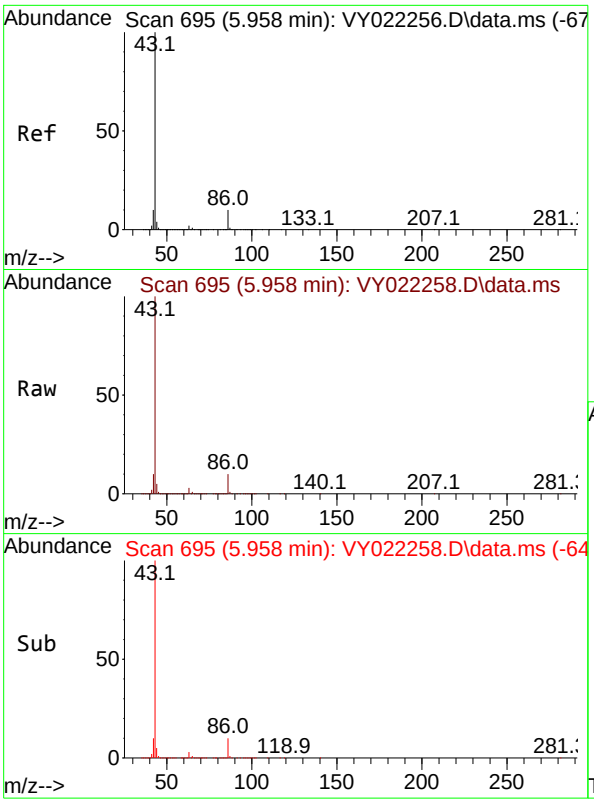


#22
Diisopropyl ether
Concen: 151.557 ug/l
RT: 6.019 min Scan# 705
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 45 Resp: 1626927

Ion	Ratio	Lower	Upper
45	100		
43	59.2	48.2	72.2
87	26.4	21.4	32.0
59	11.6	9.0	13.4

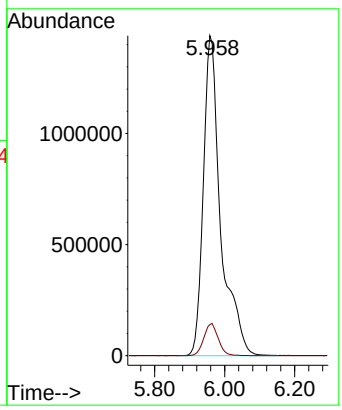




#23
Vinyl Acetate
Concen: 763.831 ug/l
RT: 5.958 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 43 Resp: 495364

Ion	Ratio	Lower	Upper
43	100		
86	9.7	7.8	11.8



Instrument :
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ClientSampleId :
VSTDICC150

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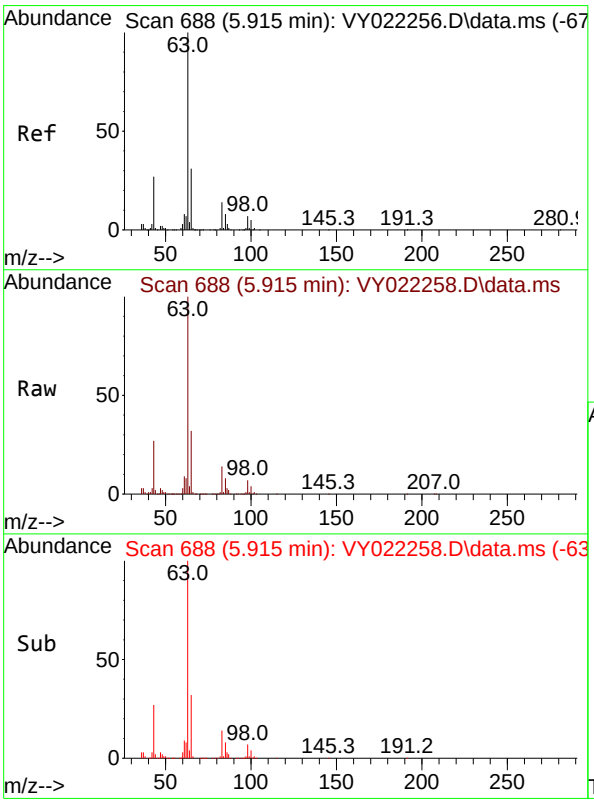
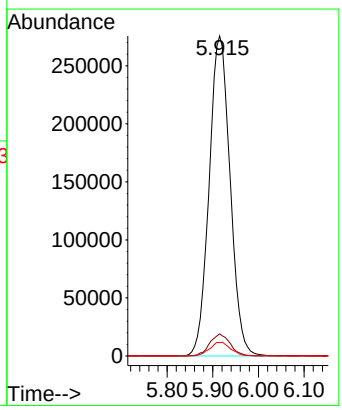
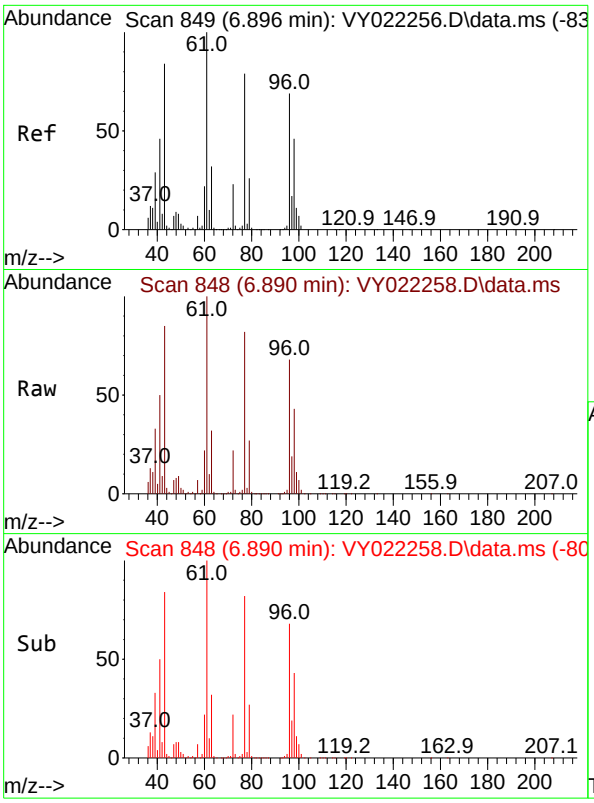


#24
1,1-Dichloroethane
Concen: 146.697 ug/l
RT: 5.915 min Scan# 688
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 63 Resp: 879785

Ion	Ratio	Lower	Upper
63	100		
98	6.9	3.5	10.5
100	4.2	2.4	7.2





#25
2-Butanone
Concen: 762.091 ug/l
RT: 6.890 min Scan# 84
Delta R.T. -0.006 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 43 Resp: 70801

Ion	Ratio	Lower	Upper
43	100		
72	26.4	22.1	33.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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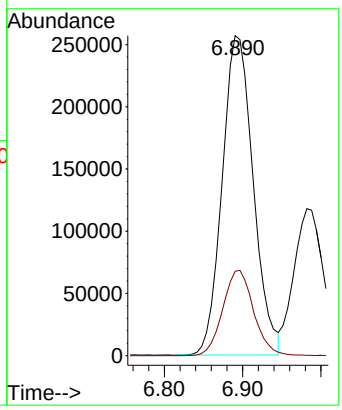
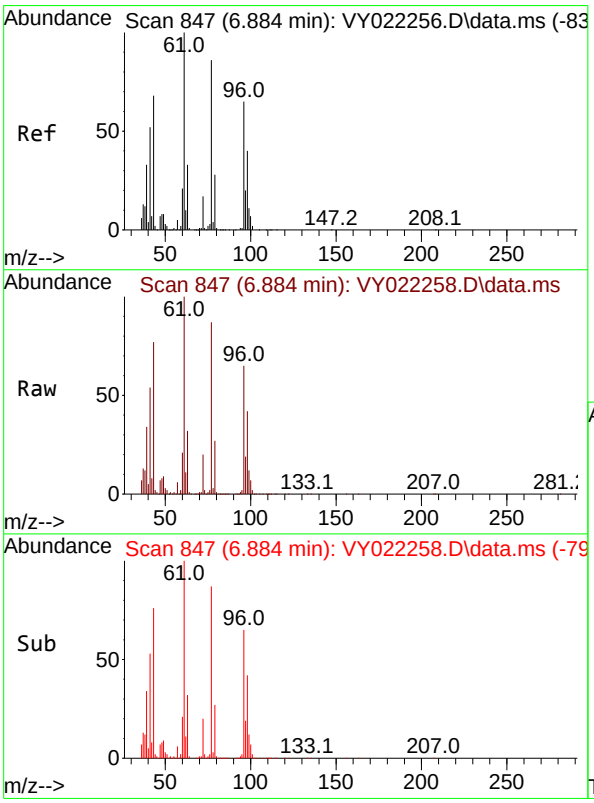
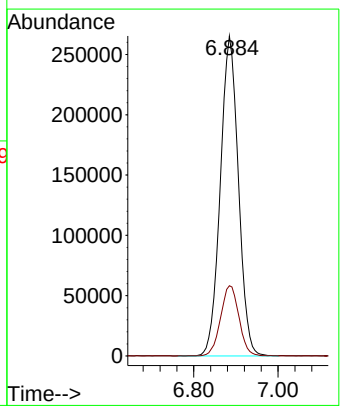


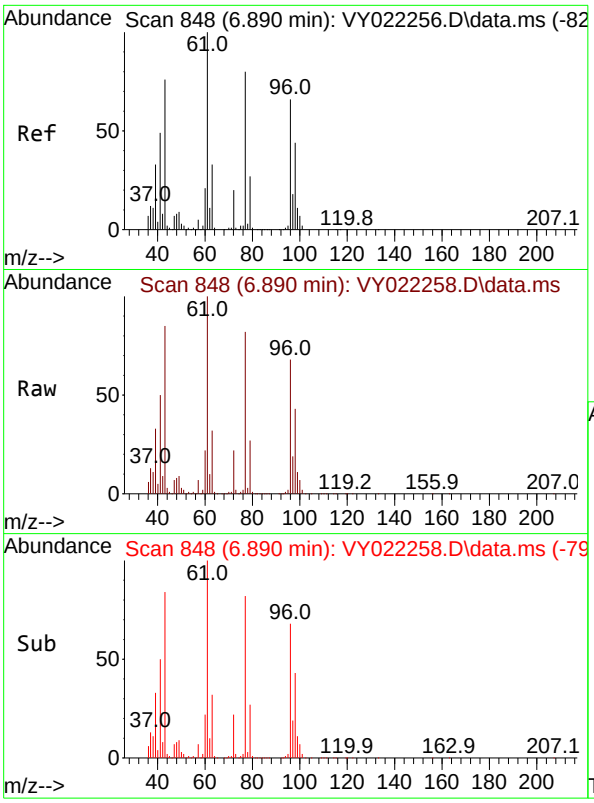


#26
2,2-Dichloropropane
Concen: 147.575 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 77 Resp: 787195

Ion	Ratio	Lower	Upper
77	100		
97	22.3	11.2	33.5





#27
cis-1,2-Dichloroethene
Concen: 152.601 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 96 Resp: 56350

Ion	Ratio	Lower	Upper
96	100		
61	151.2	0.0	302.6
98	64.4	0.0	128.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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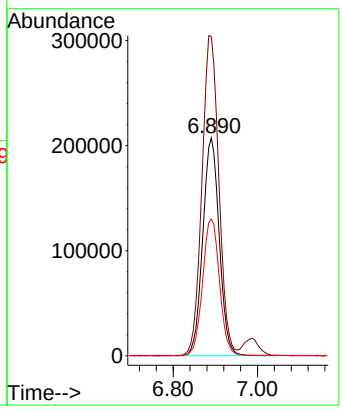
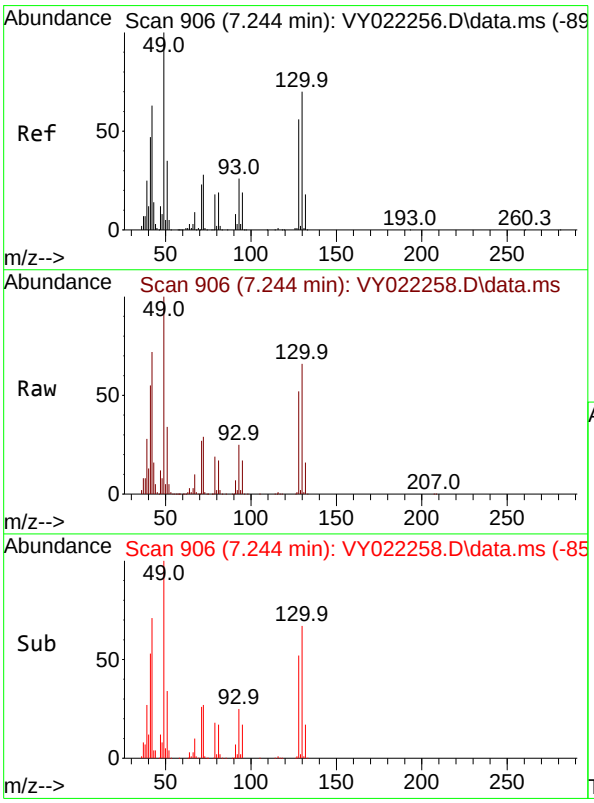
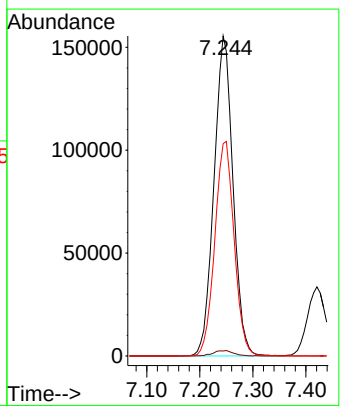


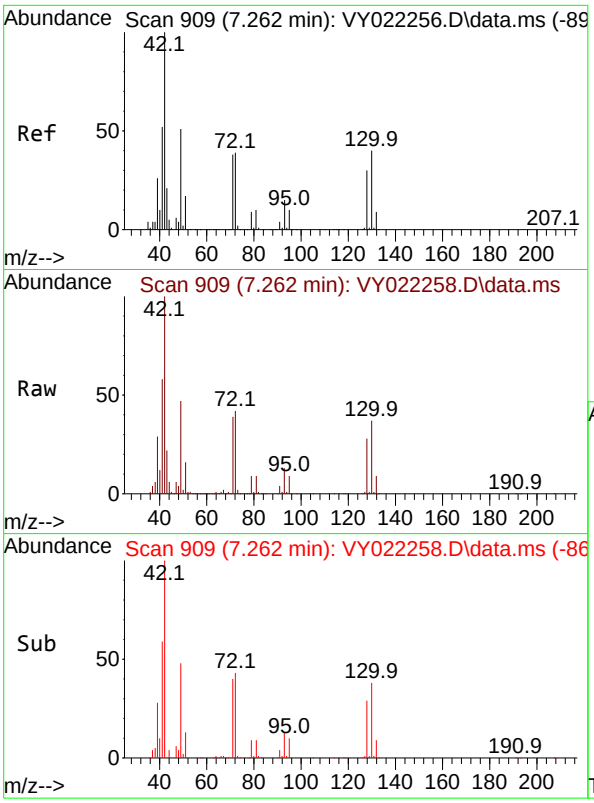


#28
Bromochloromethane
Concen: 151.369 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 49 Resp: 387221

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	3.6
130	68.2	54.7	82.1

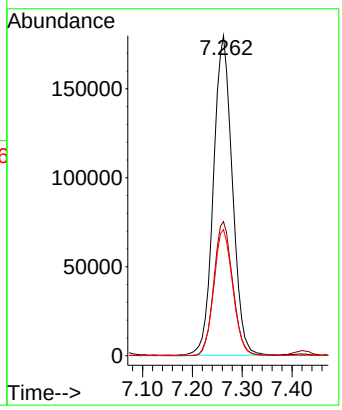




#29
Tetrahydrofuran
Concen: 790.072 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 42 Resp: 47222

Ion	Ratio	Lower	Upper
42	100		
72	42.0	33.8	50.6
71	39.6	31.5	47.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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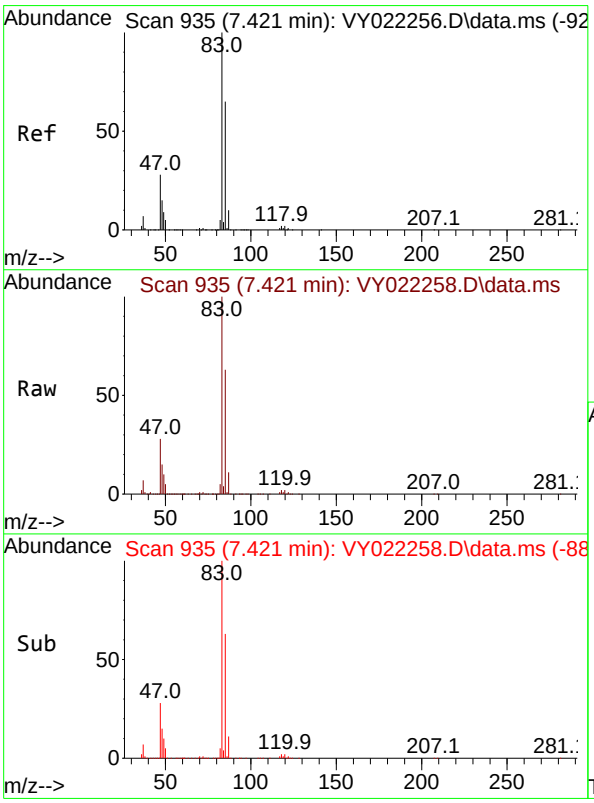
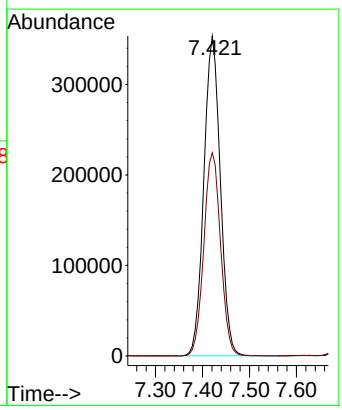
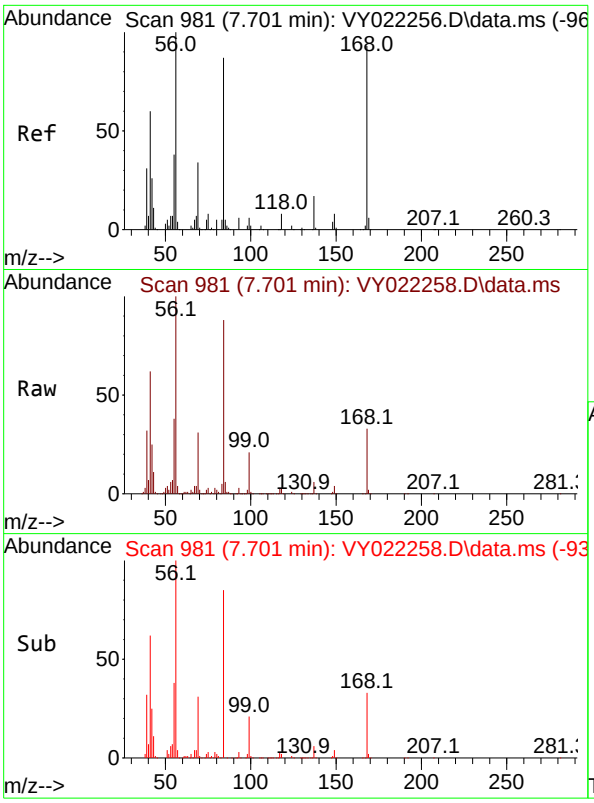


#30
Chloroform
Concen: 149.381 ug/l
RT: 7.421 min Scan# 935
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 83 Resp: 859317

Ion	Ratio	Lower	Upper
83	100		
85	63.5	51.8	77.8

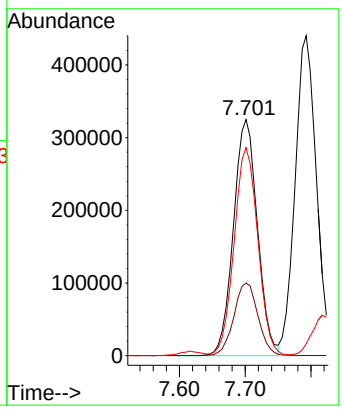




#31
Cyclohexane
Concen: 137.144 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 56 Resp: 82178

Ion	Ratio	Lower	Upper
56	100		
69	30.7	27.4	41.2
84	87.3	70.0	105.0



Instrument :
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ClientSampleId :
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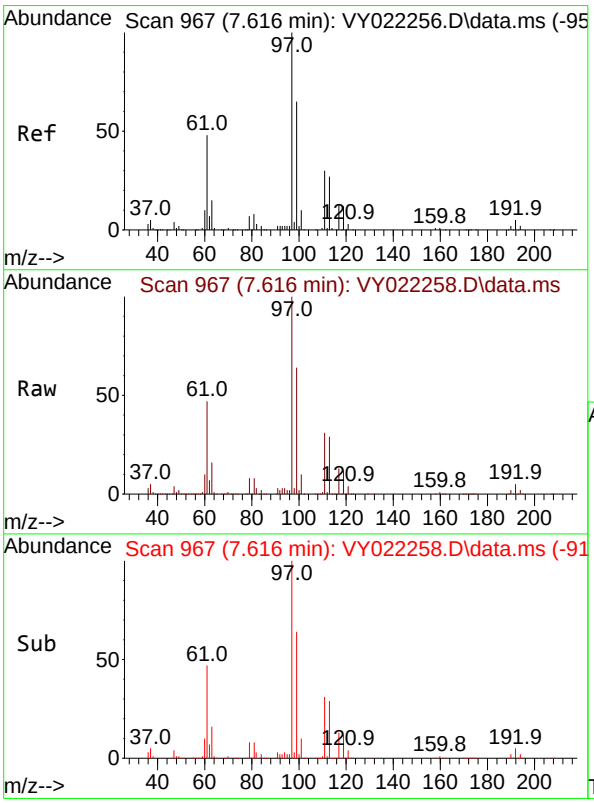
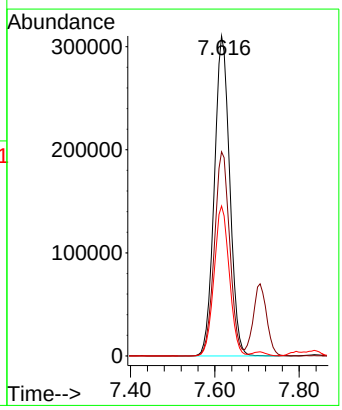
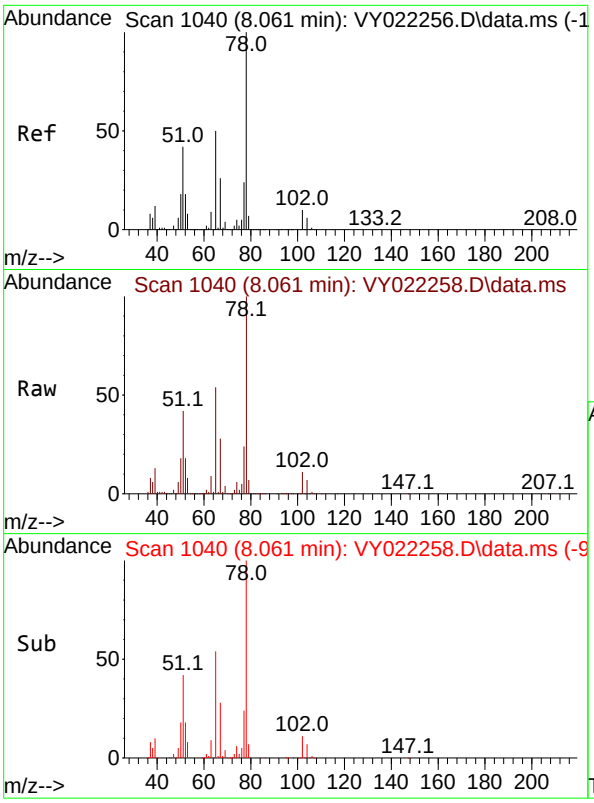


#32
1,1,1-Trichloroethane
Concen: 148.554 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 97 Resp: 784014

Ion	Ratio	Lower	Upper
97	100		
99	64.0	51.4	77.0
61	46.7	38.1	57.1

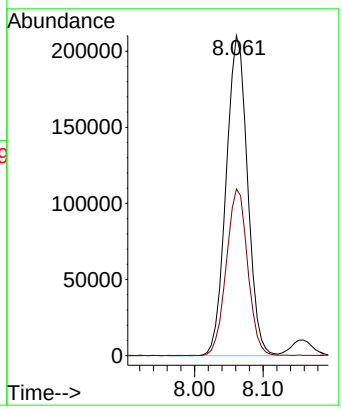




#33
1,2-Dichloroethane-d4
Concen: 153.739 ug/l
RT: 8.061 min Scan# 1(
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 65 Resp: 45538

Ion	Ratio	Lower	Upper
65	100		
67	52.0	0.0	104.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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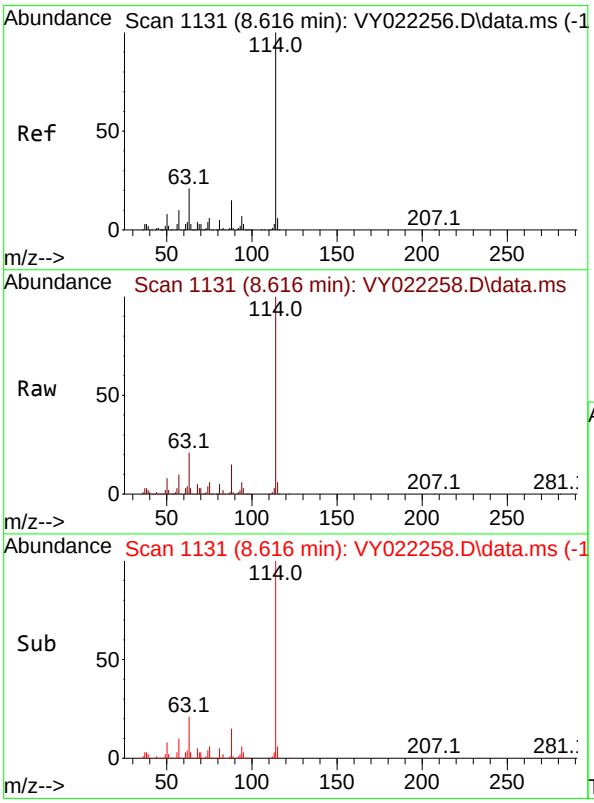
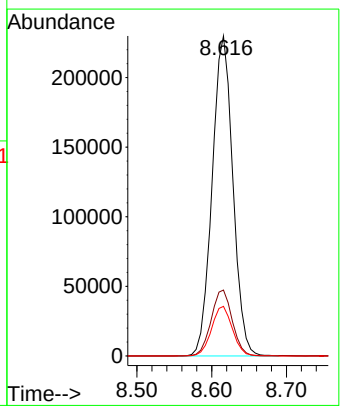
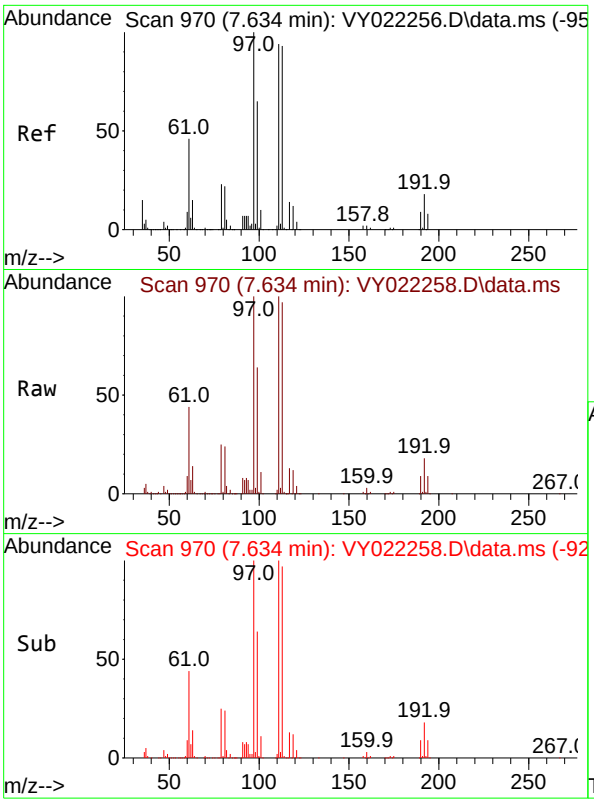


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion:114 Resp: 442917

Ion	Ratio	Lower	Upper
114	100		
63	20.6	0.0	41.0
88	15.5	0.0	29.4

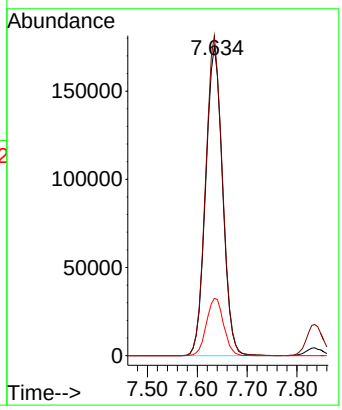




#35
Dibromofluoromethane
Concen: 155.969 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion:113 Resp: 41231

Ion	Ratio	Lower	Upper
113	100		
111	103.2	82.6	123.8
192	18.9	15.2	22.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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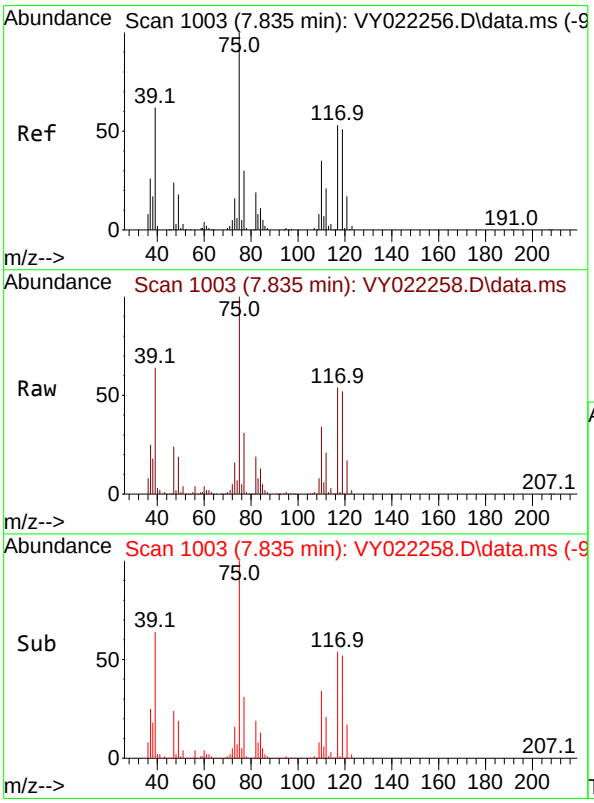
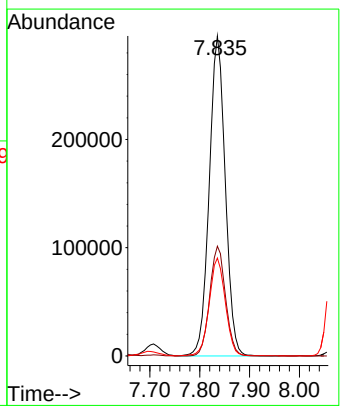
Supervised By :Semsettin Yesilyurt 05/16/2025

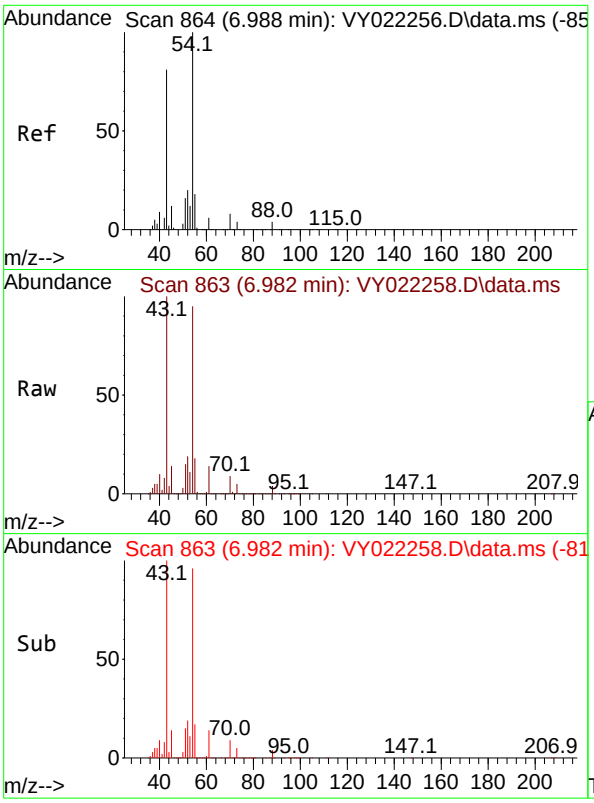


#36
1,1-Dichloropropene
Concen: 151.316 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 75 Resp: 658871

Ion	Ratio	Lower	Upper
75	100		
110	33.9	16.6	49.8
77	30.7	24.6	37.0





#37
Ethyl Acetate
Concen: 153.067 ug/l
RT: 6.982 min Scan# 8
Delta R.T. -0.006 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 43 Resp: 32068

Ion	Ratio	Lower	Upper
43	100		
61	13.3	10.2	15.2
70	9.3	7.6	11.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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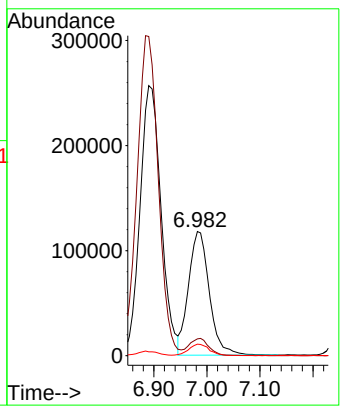
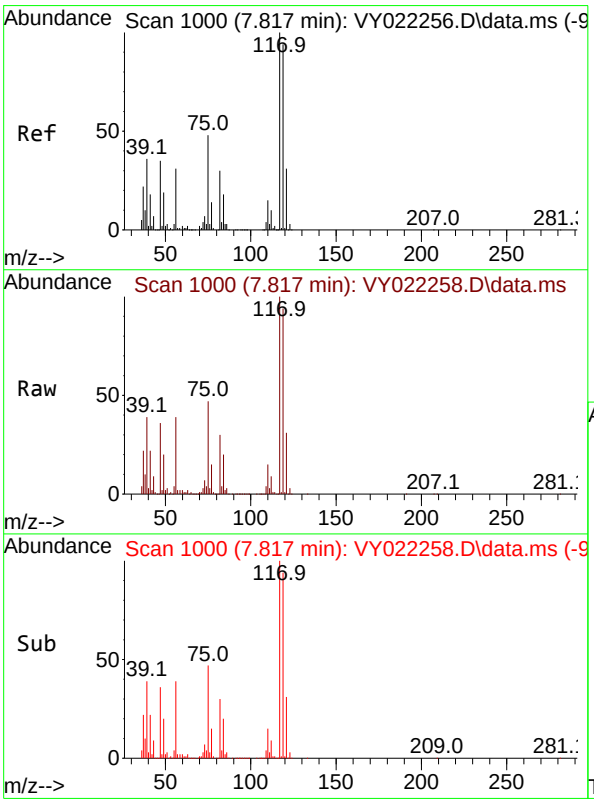
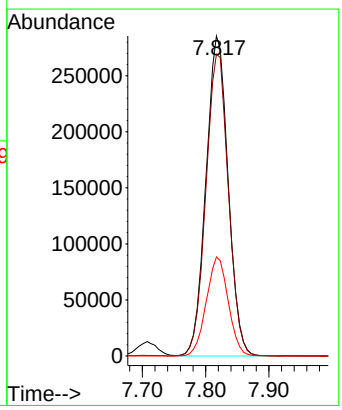


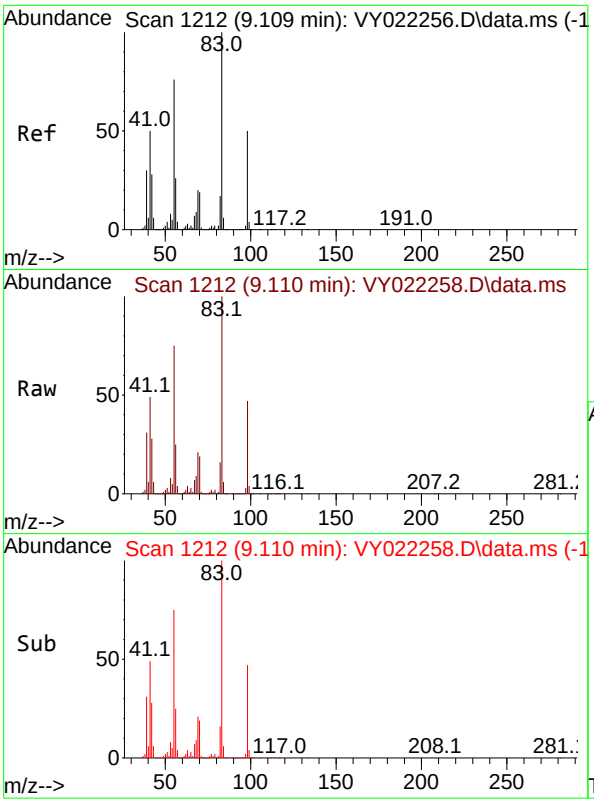


#38
Carbon Tetrachloride
Concen: 154.450 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion:117 Resp: 696139

Ion	Ratio	Lower	Upper
117	100		
119	94.3	75.3	112.9
121	30.9	24.7	37.1

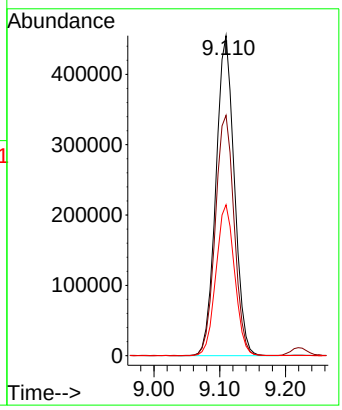




#39
Methylcyclohexane
Concen: 151.510 ug/l
RT: 9.110 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 83 Resp: 88632

Ion	Ratio	Lower	Upper
83	100		
55	75.1	60.6	90.8
98	47.2	40.0	60.0



Instrument :
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ClientSampleId :
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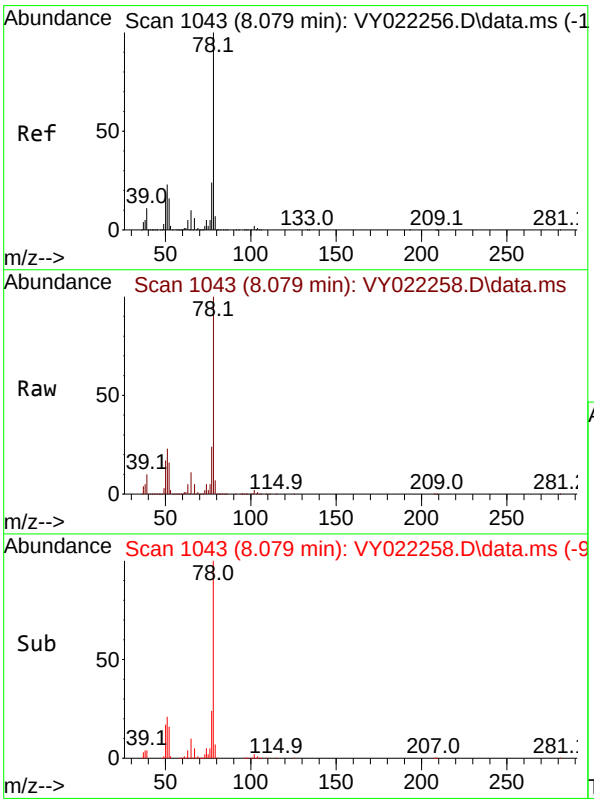
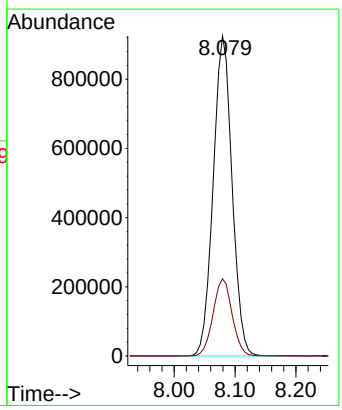
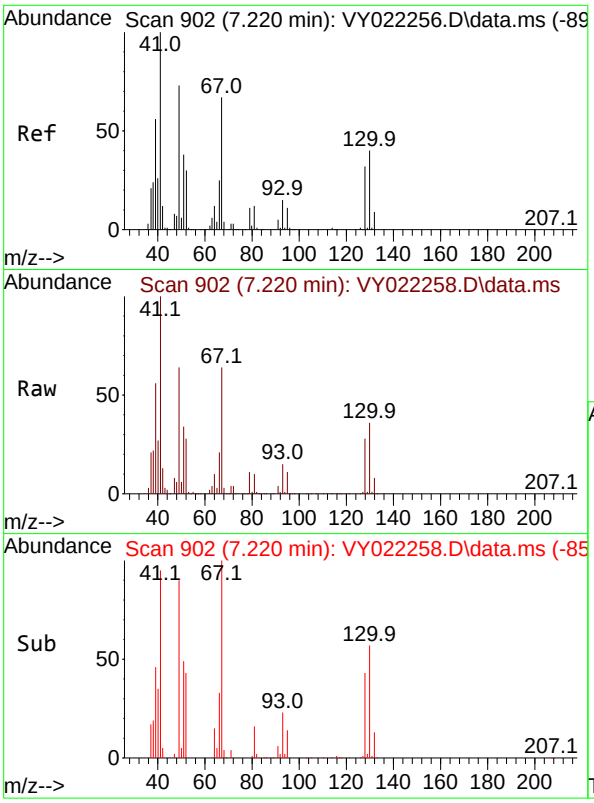


#40
Benzene
Concen: 153.973 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 78 Resp: 1987535

Ion	Ratio	Lower	Upper
78	100		
77	24.1	18.9	28.3

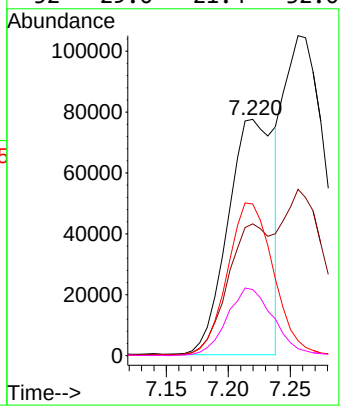




#41
Methacrylonitrile
Concen: 132.161 ug/l m
RT: 7.220 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 41 Resp: 20260

Ion	Ratio	Lower	Upper
41	100		
39	47.7	39.1	58.7
67	64.4	47.1	70.7
52	29.0	21.4	32.0



Instrument :
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ClientSampleId :
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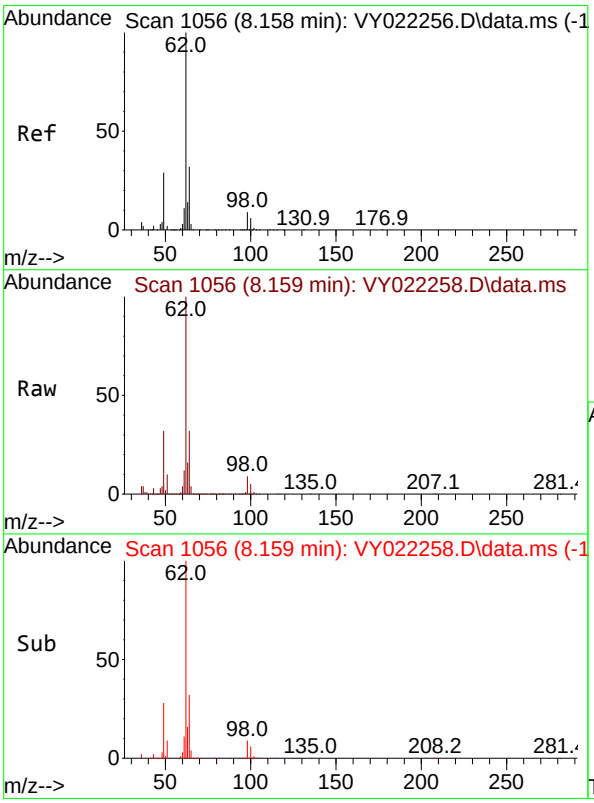
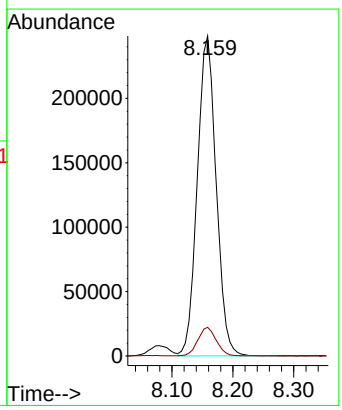
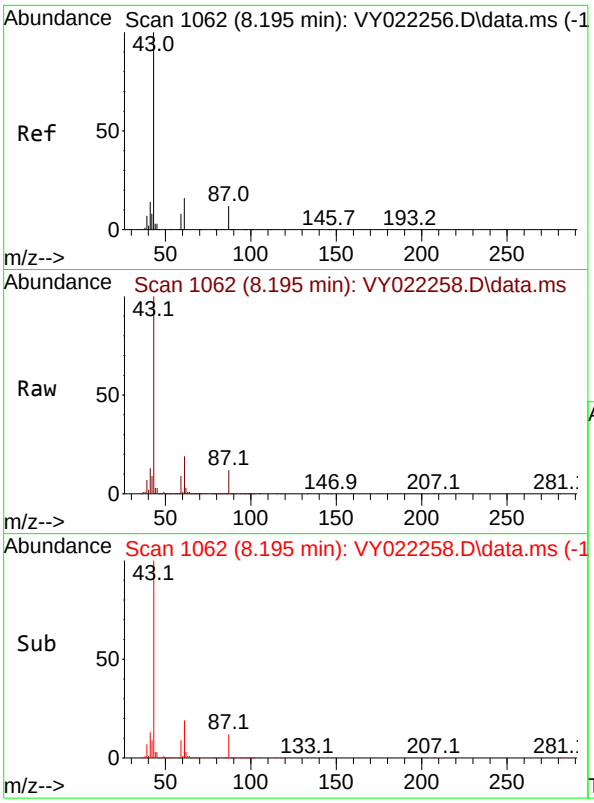


#42
1,2-Dichloroethane
Concen: 153.124 ug/l
RT: 8.159 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 62 Resp: 534517

Ion	Ratio	Lower	Upper
62	100		
98	8.7	0.0	18.4

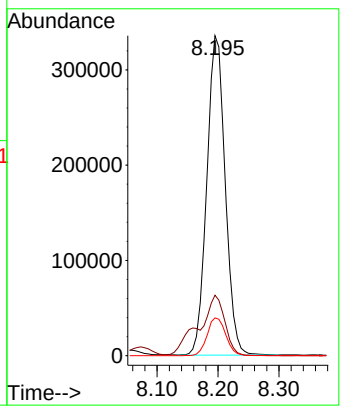




#43
Isopropyl Acetate
Concen: 154.159 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 43 Resp: 70436

Ion	Ratio	Lower	Upper
43	100		
61	27.0	15.1	22.7#
87	12.0	9.7	14.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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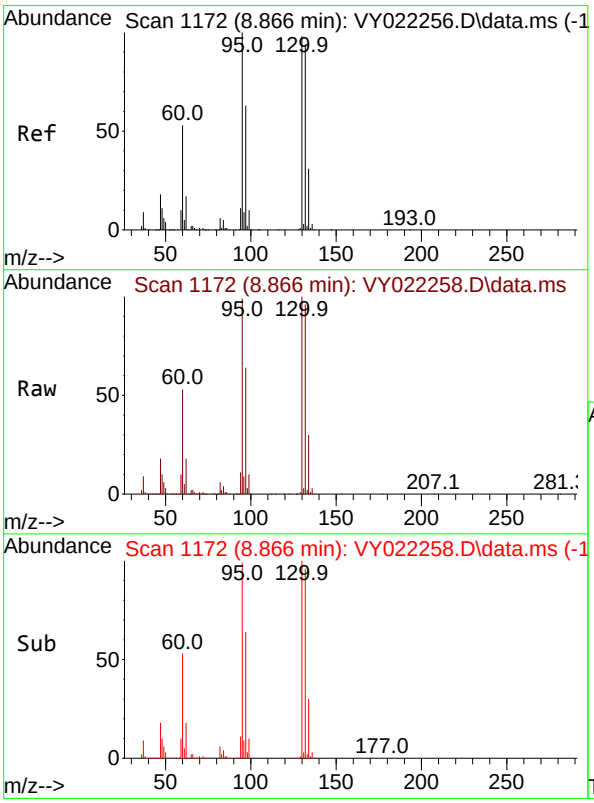
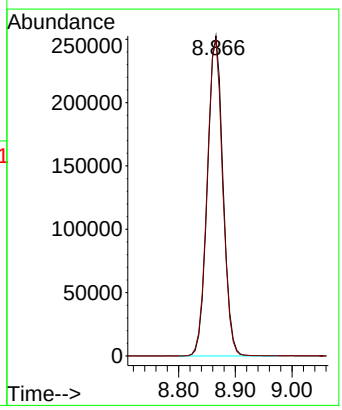
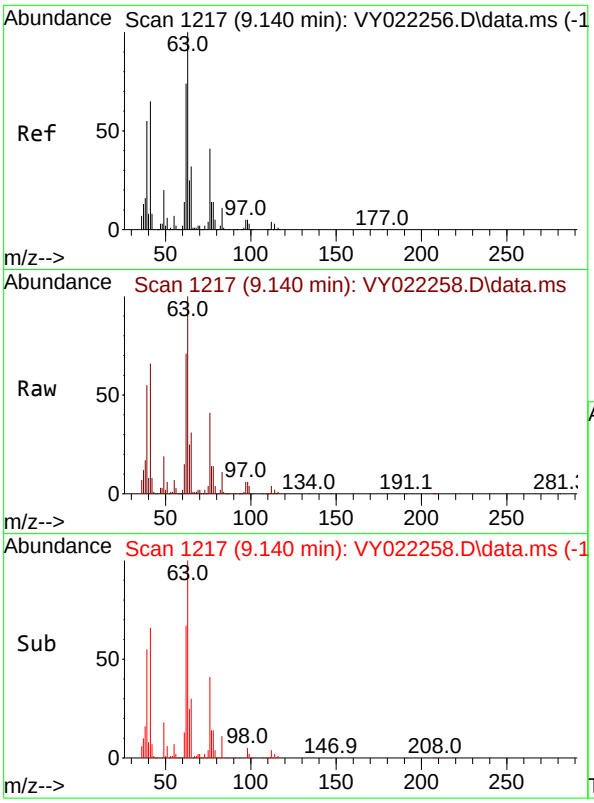


#44
Trichloroethene
Concen: 150.171 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion:130 Resp: 481990

Ion	Ratio	Lower	Upper
130	100		
95	98.7	0.0	204.8

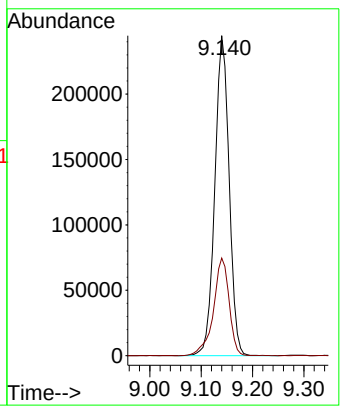




#45
1,2-Dichloropropane
Concen: 151.736 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 63 Resp: 47221

Ion	Ratio	Lower	Upper
63	100		
65	30.5	25.7	38.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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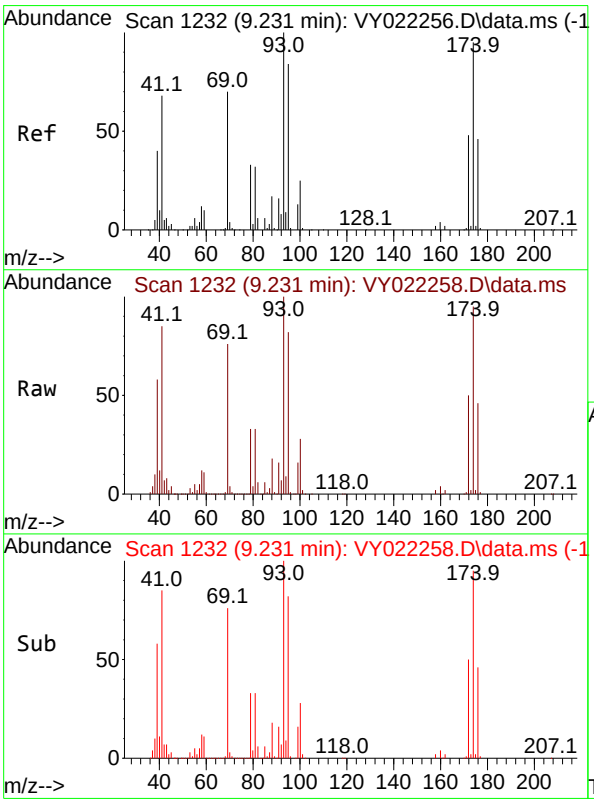
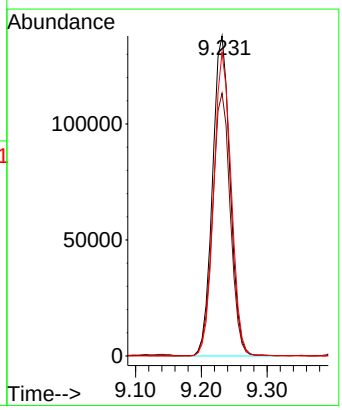
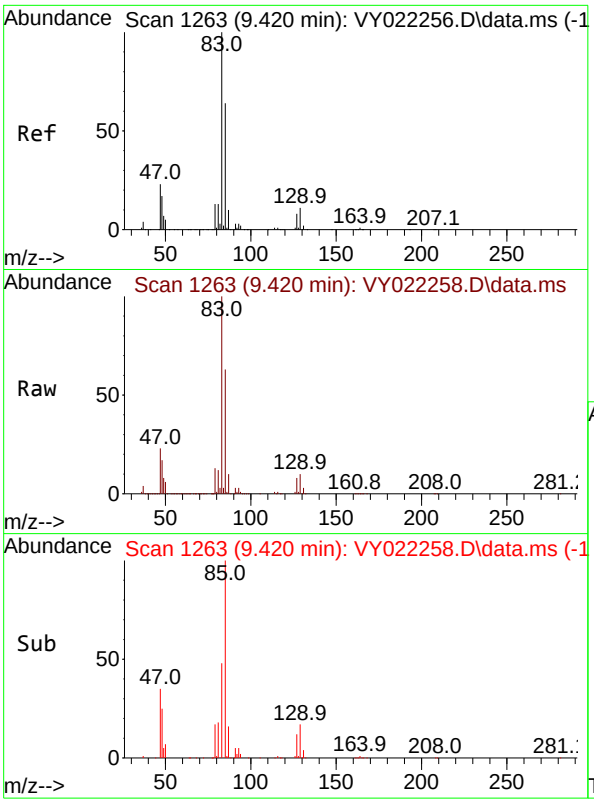


#46
Dibromomethane
Concen: 153.757 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 93 Resp: 258087

Ion	Ratio	Lower	Upper
93	100		
95	82.1	65.2	97.8
174	93.5	74.3	111.5

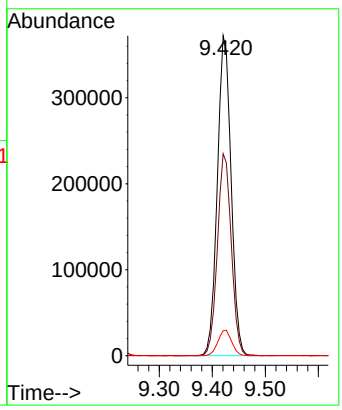




#47
Bromodichloromethane
Concen: 153.824 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 83 Resp: 66983

Ion	Ratio	Lower	Upper
83	100		
85	63.1	51.1	76.7
127	7.8	6.6	10.0



Instrument :
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ClientSampleId :
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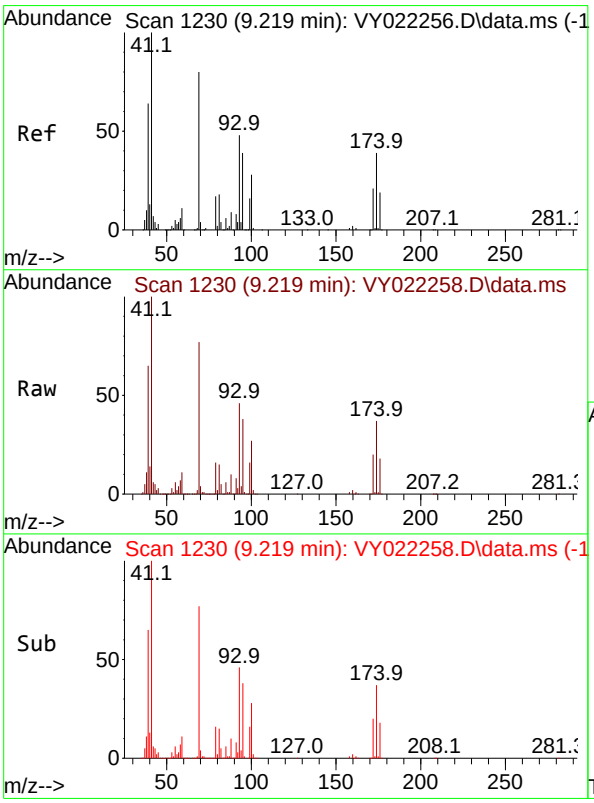
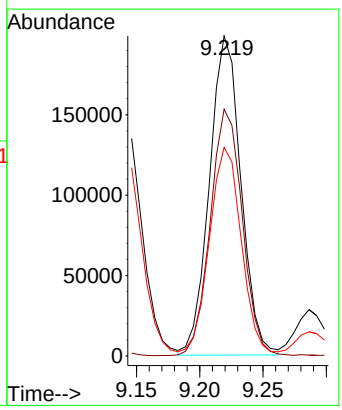
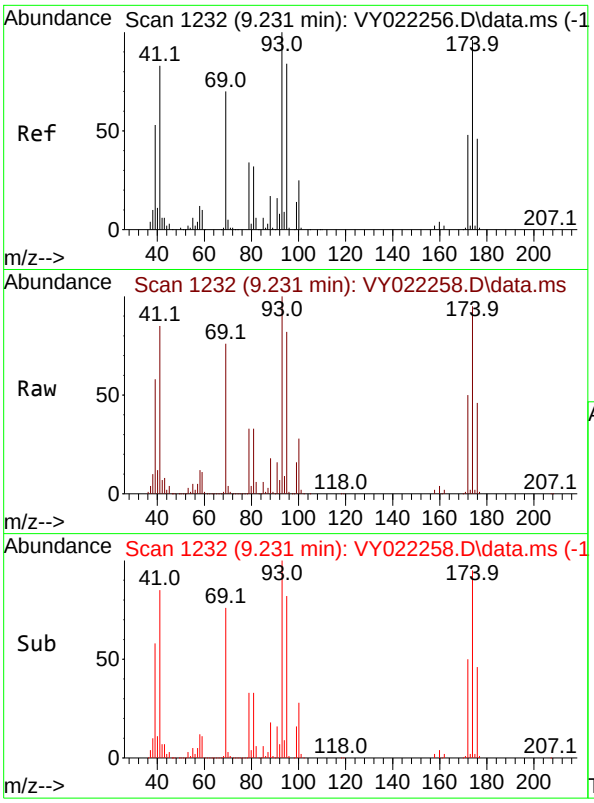


#48
Methyl methacrylate
Concen: 161.060 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 41 Resp: 344147

Ion	Ratio	Lower	Upper
41	100		
69	78.5	63.5	95.3
39	64.1	50.8	76.2

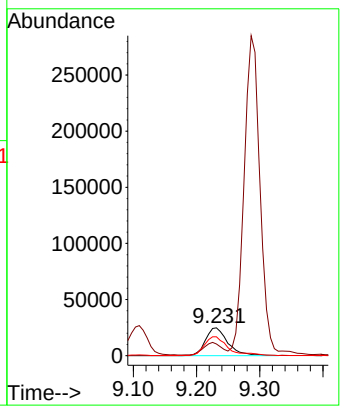




#49
1,4-Dioxane
Concen: 3217.888 ug/l
RT: 9.231 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 88 Resp: 6101

Ion	Ratio	Lower	Upper
88	100		
43	36.9	28.5	42.7
58	71.3	61.4	92.2



Instrument :
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ClientSampleId :
VSTDICC150

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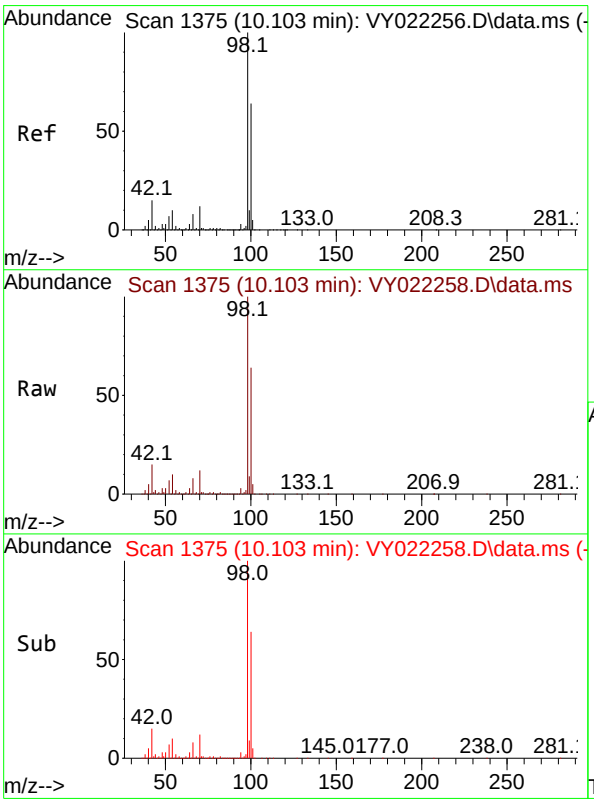
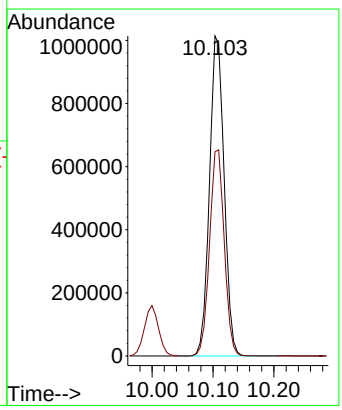
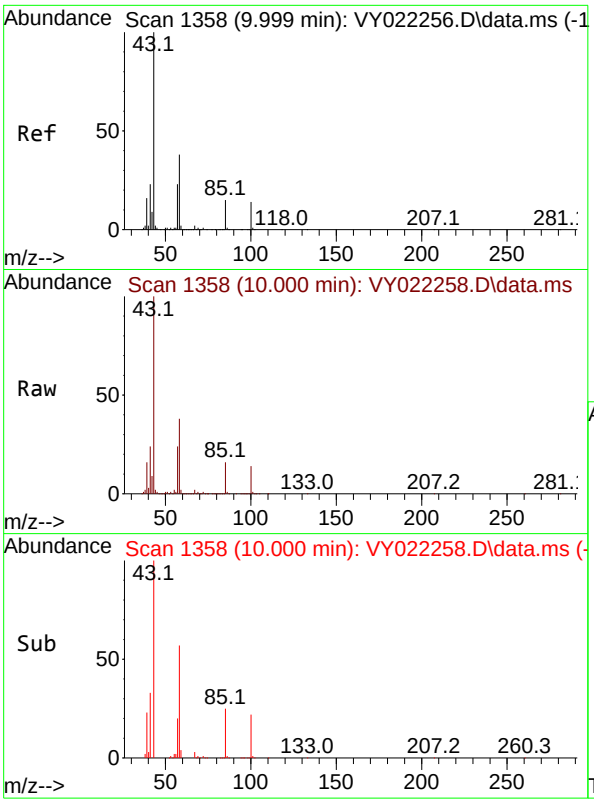


#50
Toluene-d8
Concen: 156.065 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 98 Resp: 1689714

Ion	Ratio	Lower	Upper
98	100		
100	64.7	51.8	77.8

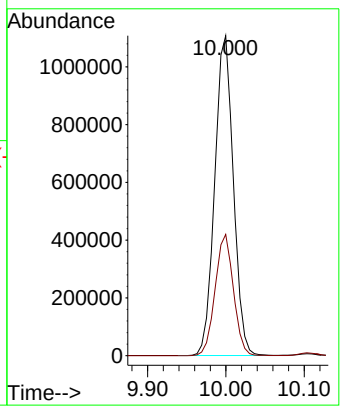




#51
4-Methyl-2-Pentanone
Concen: 815.822 ug/l
RT: 10.000 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 43 Resp: 182901

Ion	Ratio	Lower	Upper
43	100		
58	37.3	29.4	44.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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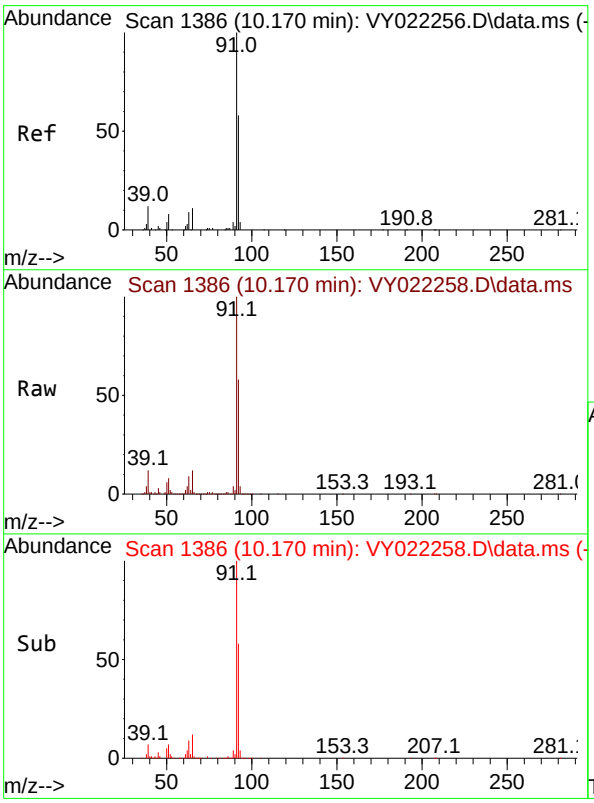
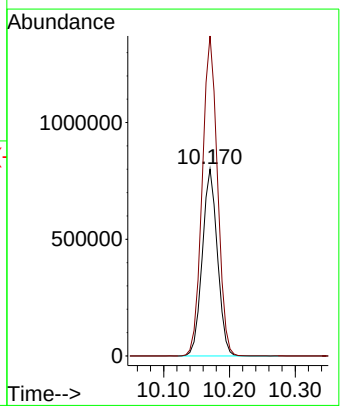
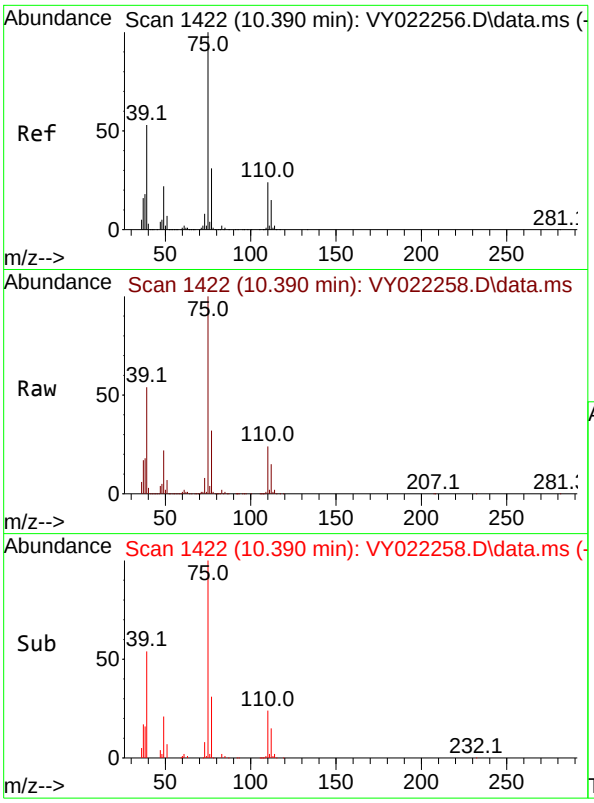


#52
Toluene
Concen: 156.216 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 92 Resp: 1276917

Ion	Ratio	Lower	Upper
92	100		
91	173.1	139.1	208.7

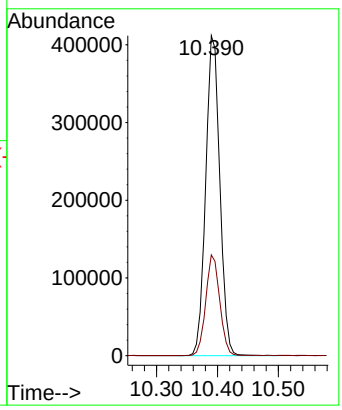




#53
t-1,3-Dichloropropene
Concen: 156.134 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 75 Resp: 66351

Ion	Ratio	Lower	Upper
75	100		
77	31.5	25.0	37.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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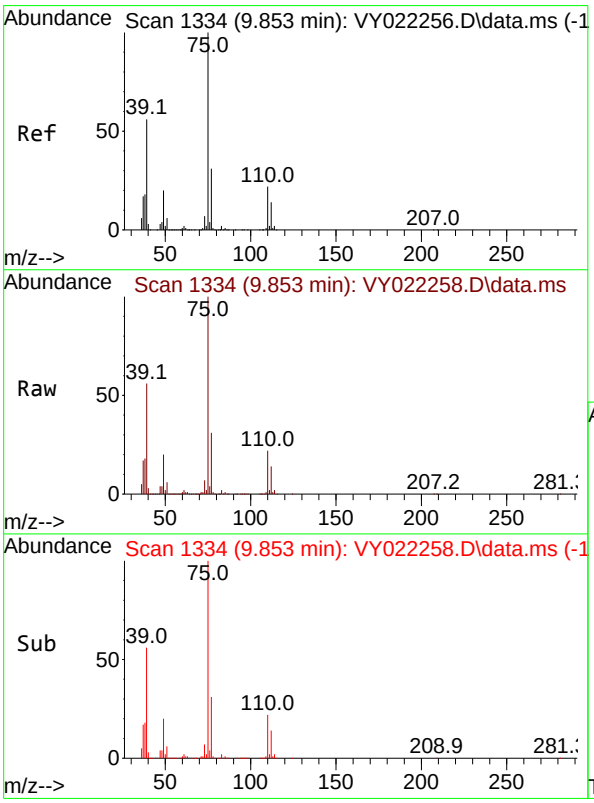
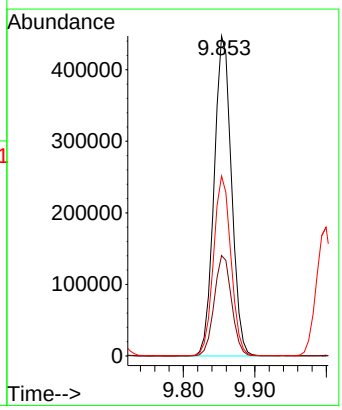
Supervised By :Semsettin Yesilyurt 05/16/2025

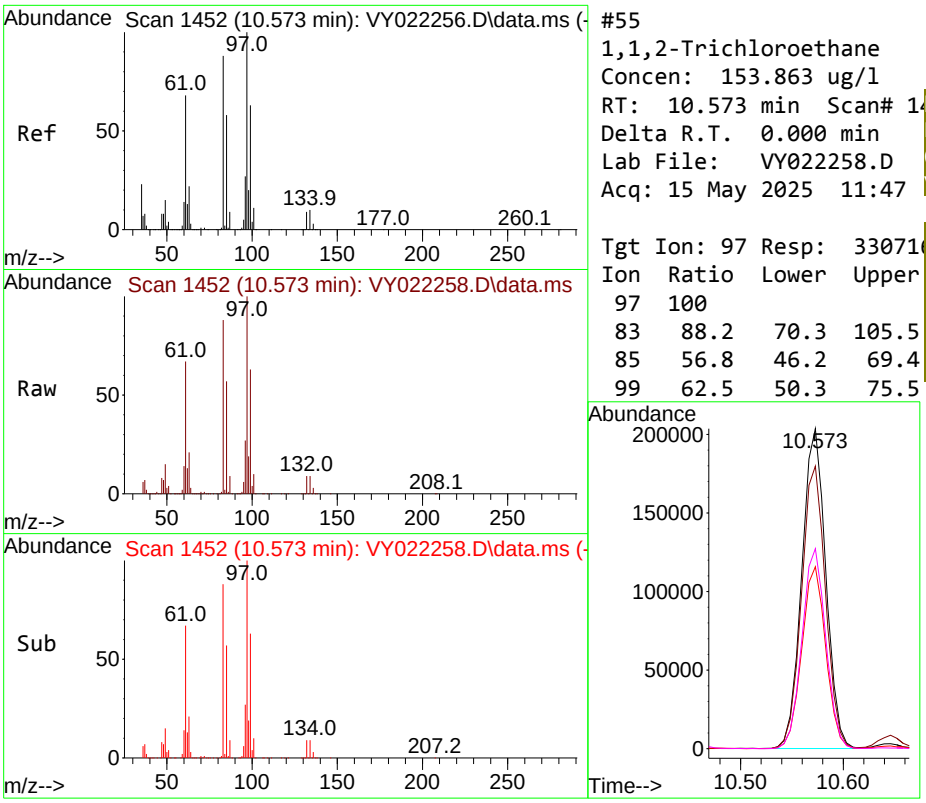


#54
cis-1,3-Dichloropropene
Concen: 154.963 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 75 Resp: 754493

Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.1	37.7
39	56.2	44.5	66.7





#55
1,1,2-Trichloroethane
Concen: 153.863 ug/l
RT: 10.573 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 97 Resp: 33071

Ion	Ratio	Lower	Upper
97	100		
83	88.2	70.3	105.5
85	56.8	46.2	69.4
99	62.5	50.3	75.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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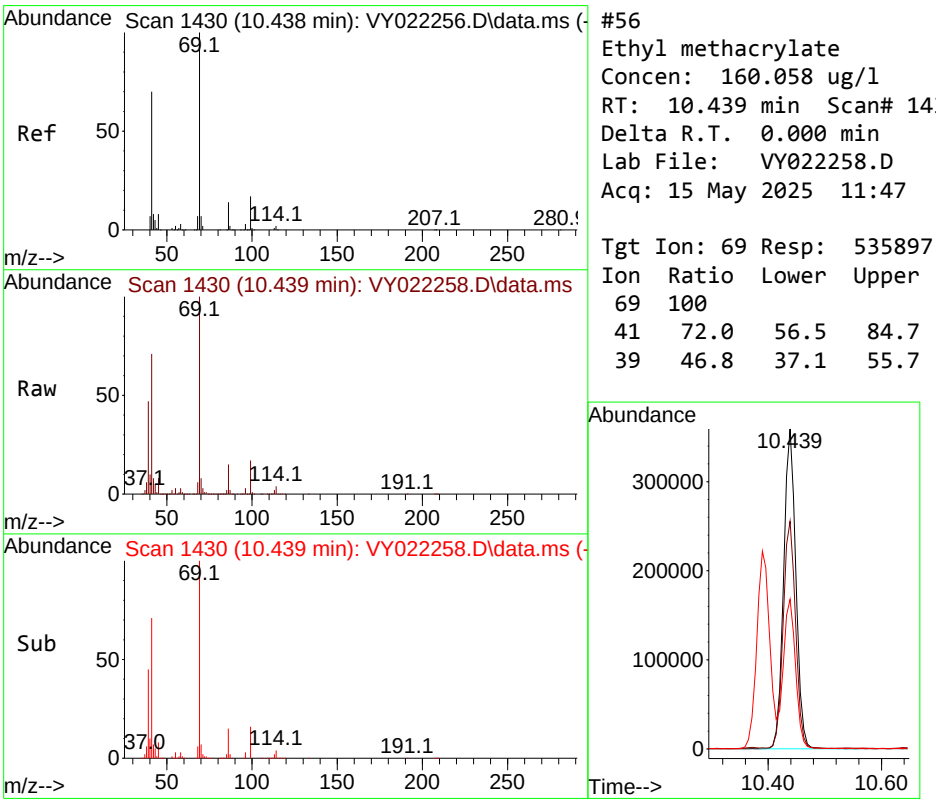
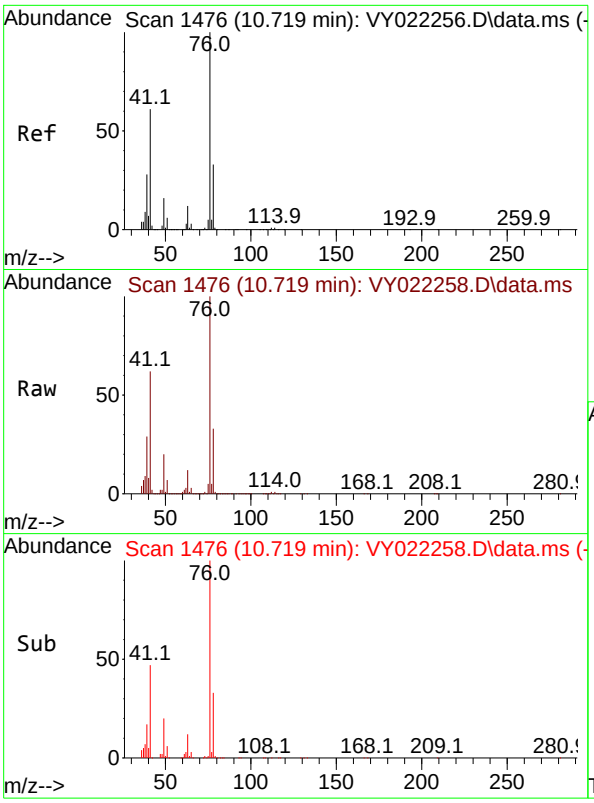


#56
Ethyl methacrylate
Concen: 160.058 ug/l
RT: 10.439 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 69 Resp: 535897

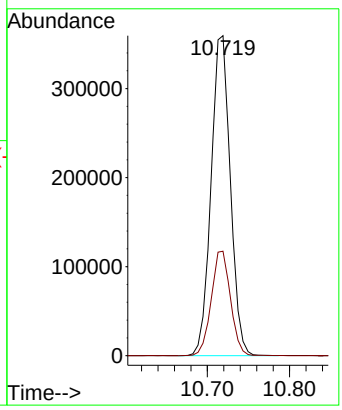
Ion	Ratio	Lower	Upper
69	100		
41	72.0	56.5	84.7
39	46.8	37.1	55.7



#57
1,3-Dichloropropane
Concen: 152.987 ug/l
RT: 10.719 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 76 Resp: 58425

Ion	Ratio	Lower	Upper
76	100		
78	32.7	25.8	38.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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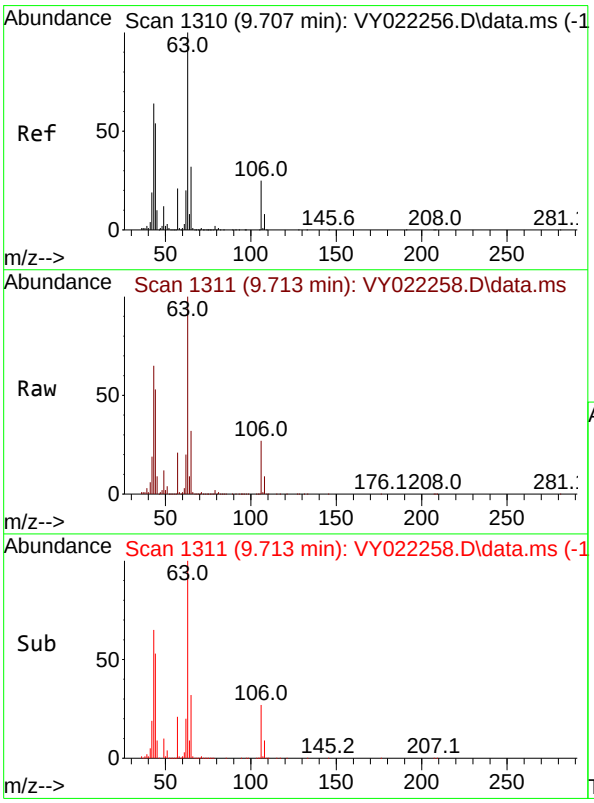
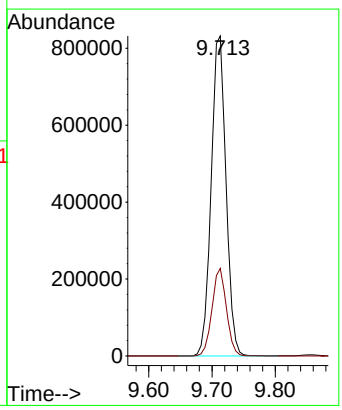
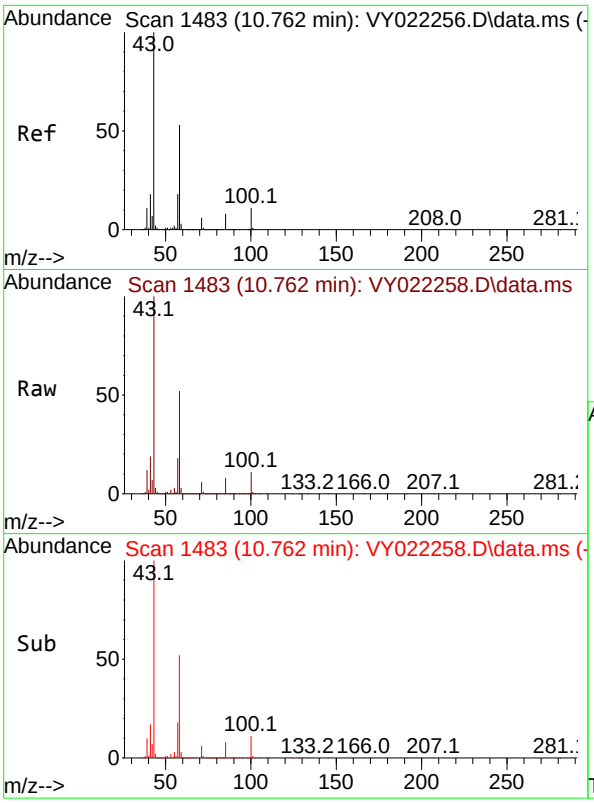


#58
2-Chloroethyl Vinyl ether
Concen: 898.675 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. 0.006 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 63 Resp: 1350536

Ion	Ratio	Lower	Upper
63	100		
106	26.6	21.0	31.4

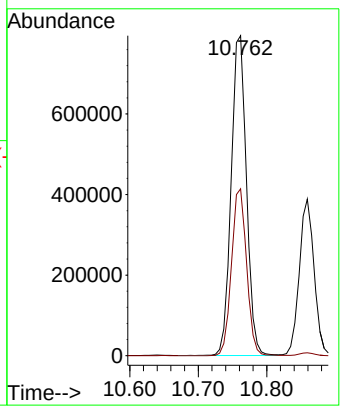




#59
2-Hexanone
Concen: 816.860 ug/l
RT: 10.762 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 43 Resp: 122788

Ion	Ratio	Lower	Upper
43	100		
58	51.7	26.1	78.3



Instrument :
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ClientSampleId :
VSTDICC150

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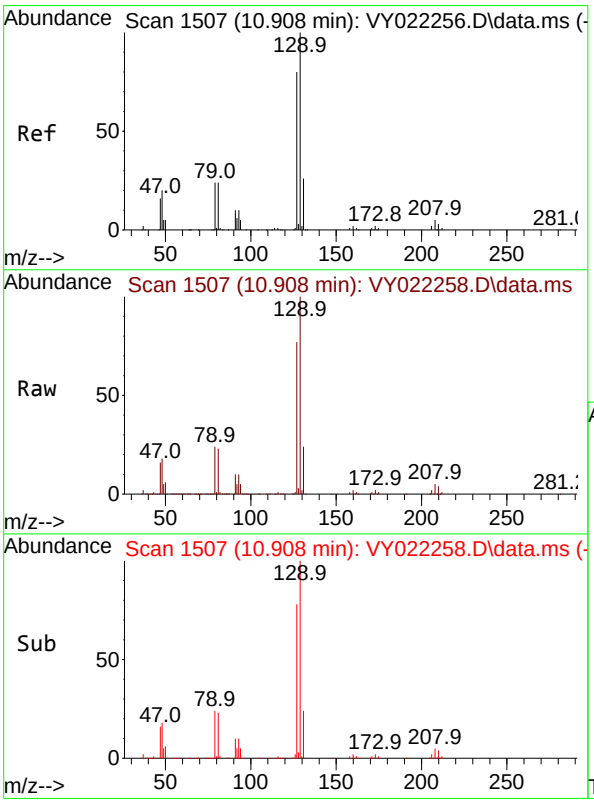
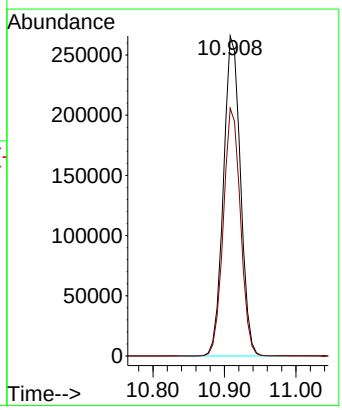
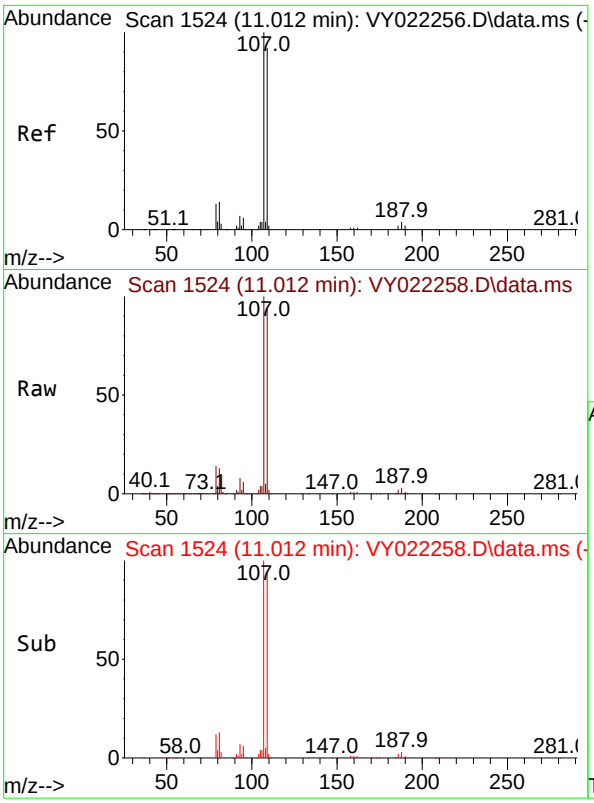


#60
Dibromochloromethane
Concen: 157.237 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion:129 Resp: 438666

Ion	Ratio	Lower	Upper
129	100		
127	77.9	38.6	115.7

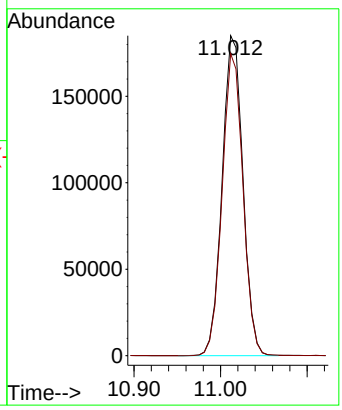




#61
1,2-Dibromoethane
Concen: 154.008 ug/l
RT: 11.012 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion:107 Resp: 30852

Ion	Ratio	Lower	Upper
107	100		
109	94.4	74.6	111.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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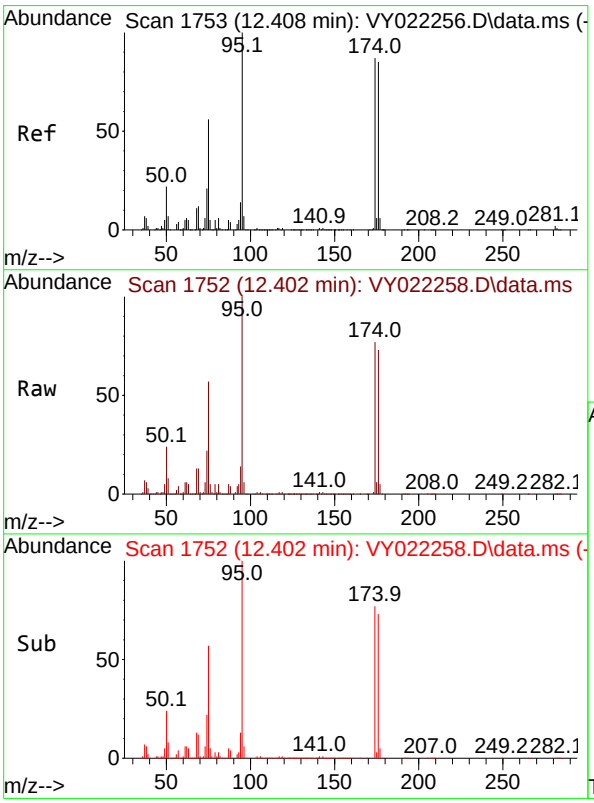
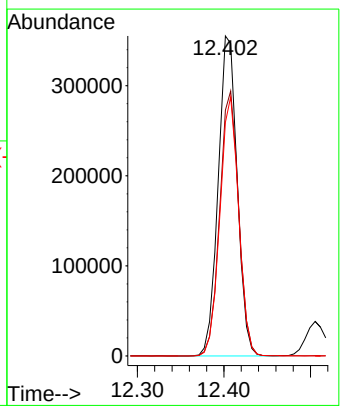
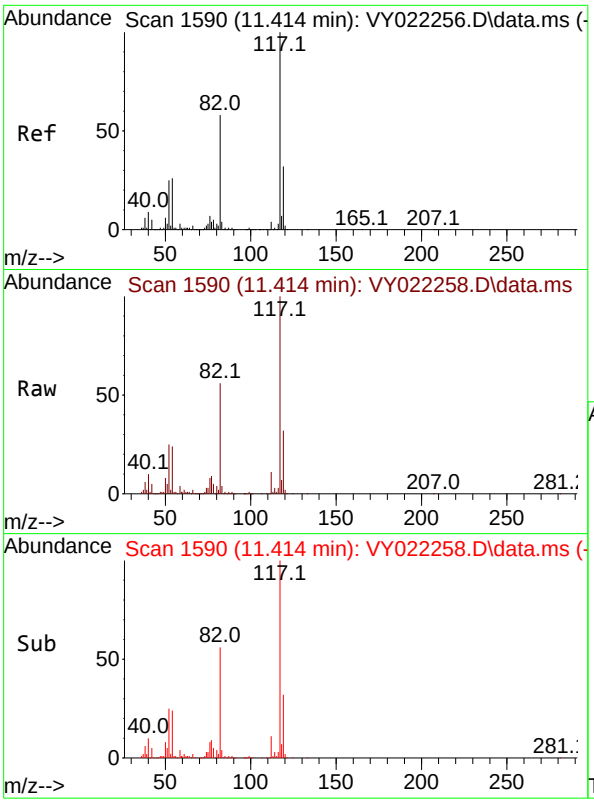


#62
4-Bromofluorobenzene
Concen: 157.751 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 95 Resp: 541367

Ion	Ratio	Lower	Upper
95	100		
174	82.5	0.0	166.8
176	79.8	0.0	160.8





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion:117 Resp: 38976

Ion	Ratio	Lower	Upper
117	100		
82	56.0	46.6	70.0
119	32.0	25.8	38.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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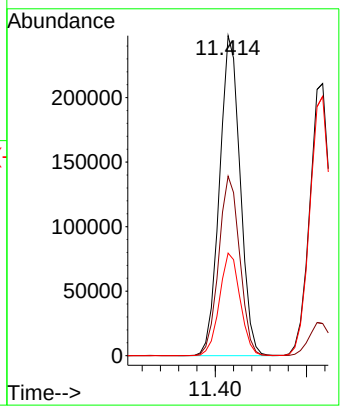
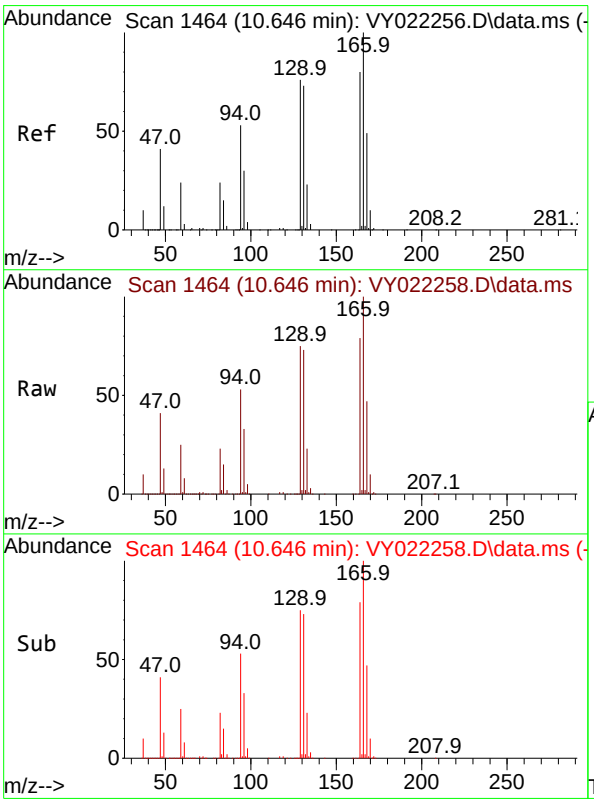
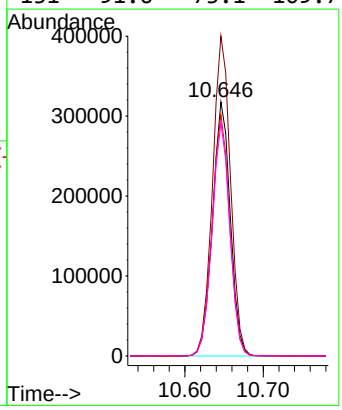


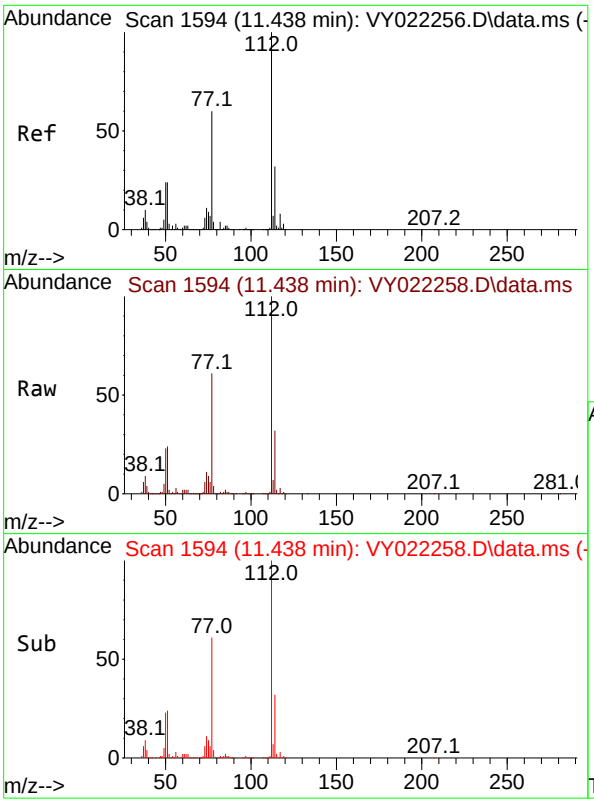


#64
Tetrachloroethene
Concen: 139.237 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion:164 Resp: 501627

Ion	Ratio	Lower	Upper
164	100		
166	125.9	100.4	150.6
129	94.9	76.4	114.6
131	91.6	73.1	109.7

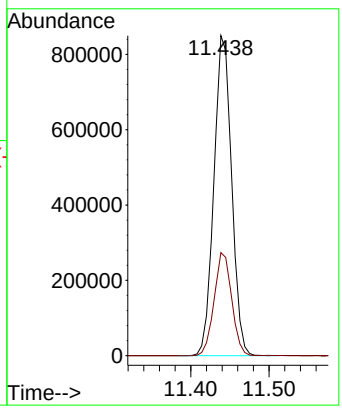




#65
Chlorobenzene
Concen: 151.997 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion:112 Resp: 133659

Ion	Ratio	Lower	Upper
112	100		
114	32.2	25.8	38.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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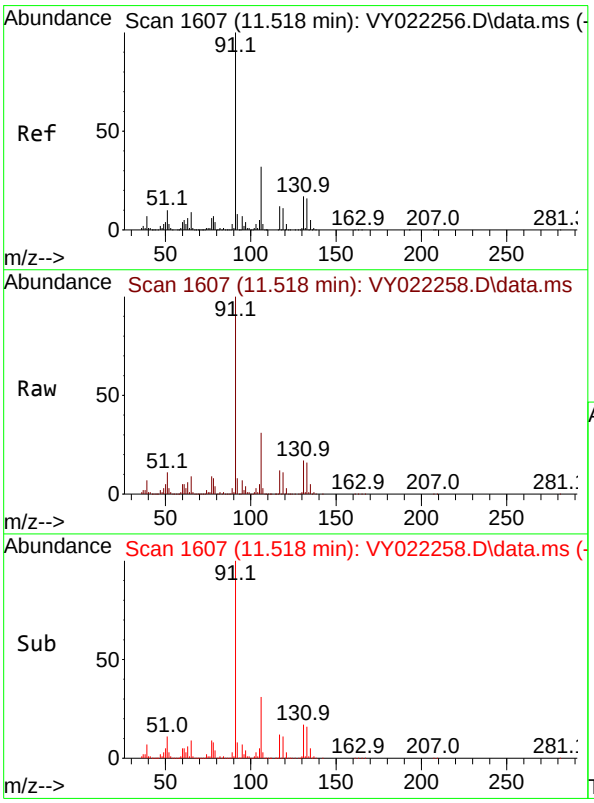
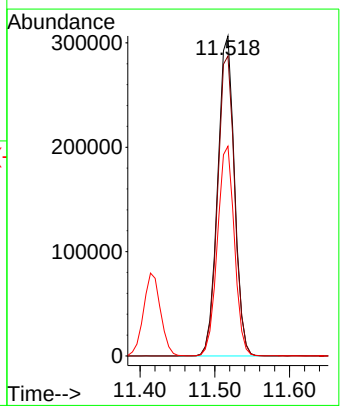
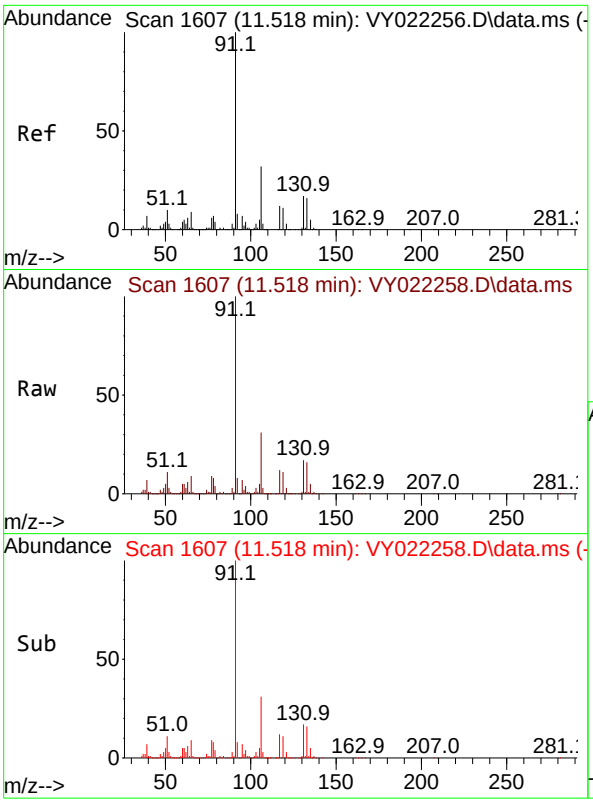


#66
1,1,1,2-Tetrachloroethane
Concen: 158.952 ug/l
RT: 11.518 min Scan# 1607
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion:131 Resp: 480525

Ion	Ratio	Lower	Upper
131	100		
133	95.2	47.3	141.9
119	66.2	33.1	99.2

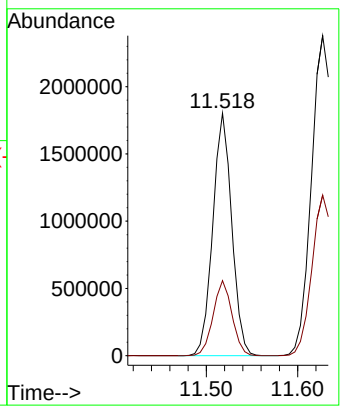




#67
Ethyl Benzene
Concen: 157.756 ug/l
RT: 11.518 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 91 Resp: 259802

Ion	Ratio	Lower	Upper
91	100		
106	30.9	25.4	38.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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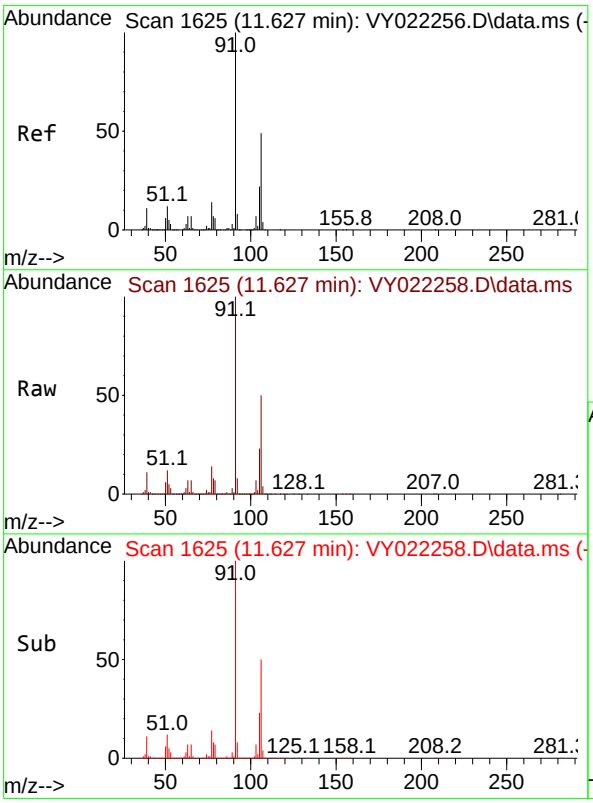
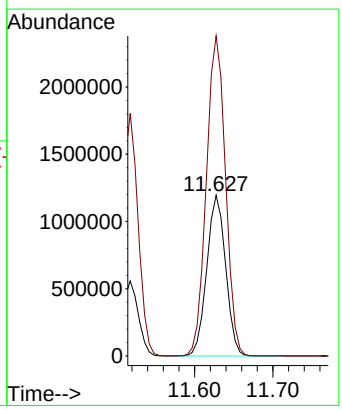
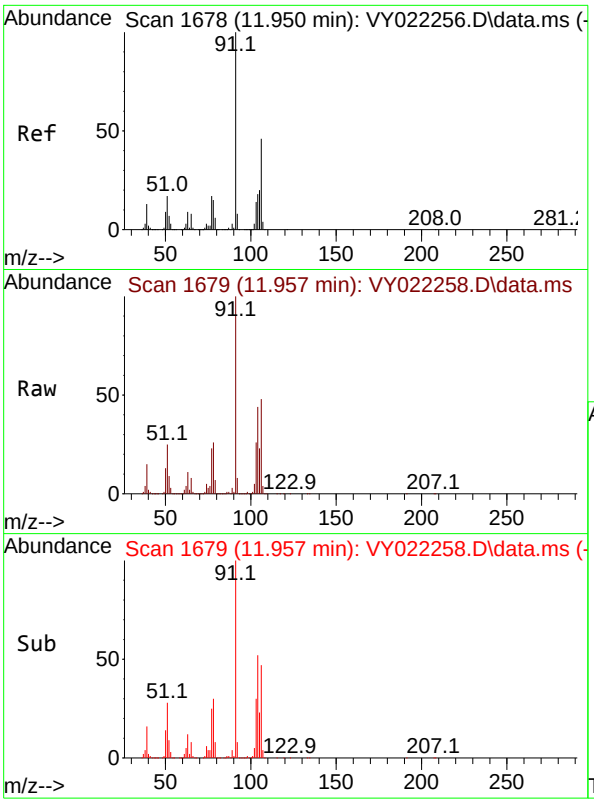


#68
m/p-Xylenes
Concen: 321.066 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion:106 Resp: 1992413

Ion	Ratio	Lower	Upper
106	100		
91	202.7	163.0	244.4

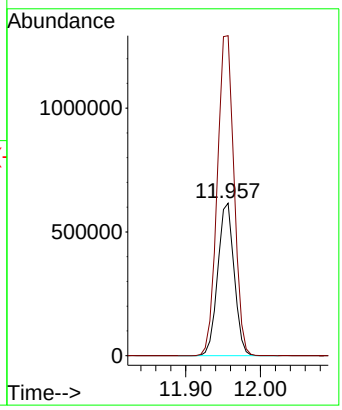




#69
o-Xylene
Concen: 159.714 ug/l
RT: 11.957 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion:106 Resp: 93772

Ion	Ratio	Lower	Upper
106	100		
91	214.6	108.3	324.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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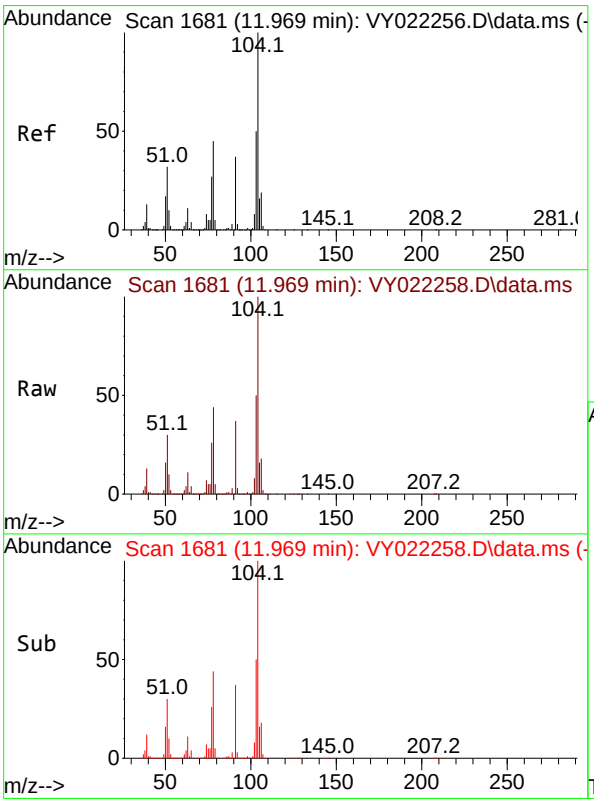
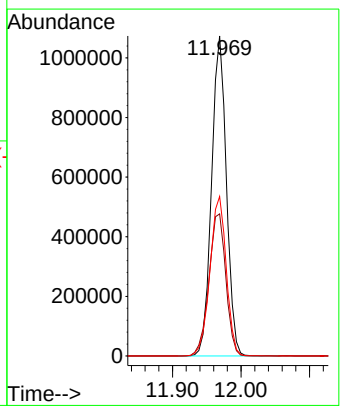
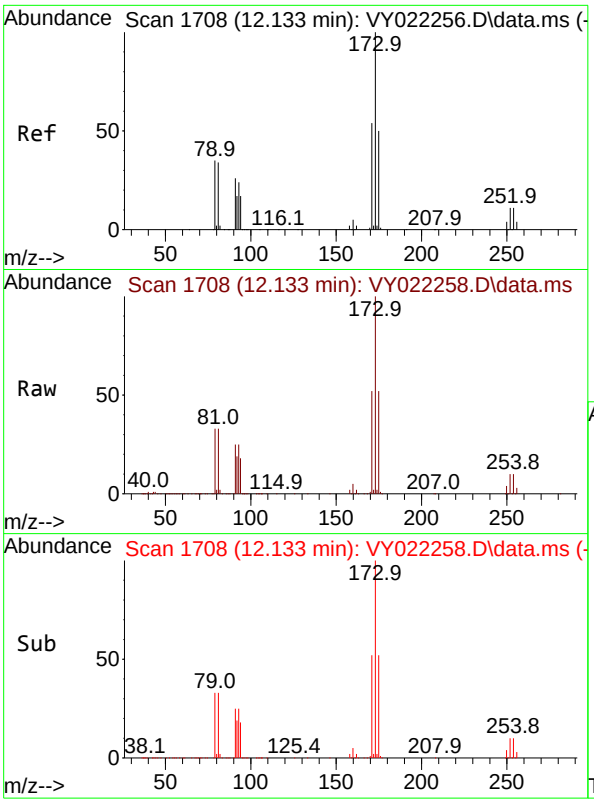


#70
Styrene
Concen: 162.944 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion:104 Resp: 1613798

Ion	Ratio	Lower	Upper
104	100		
78	50.8	40.9	61.3
103	54.7	43.7	65.5

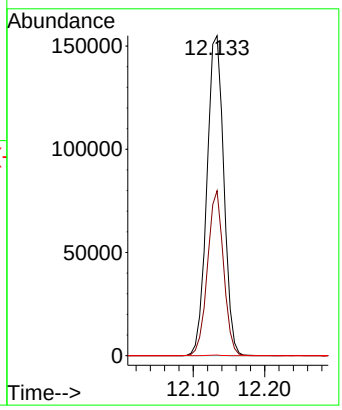




#71
Bromoform
Concen: 155.818 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion:173 Resp: 25425

Ion	Ratio	Lower	Upper
173	100		
175	49.0	24.7	74.1
254	0.1	0.0	0.0



Instrument :
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ClientSampleId :
VSTDICC150

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Reviewed By :Mahesh Dadoda 05/16/2025
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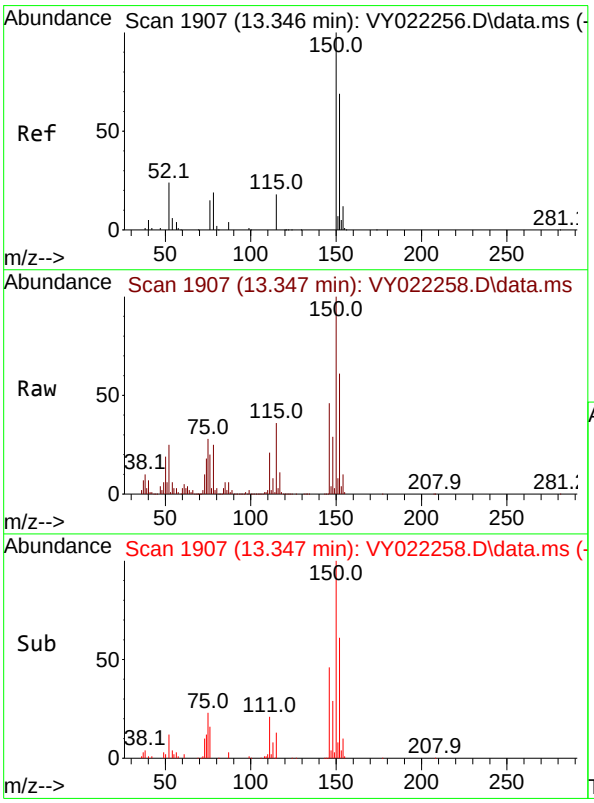
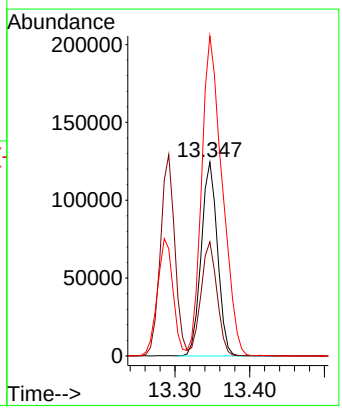
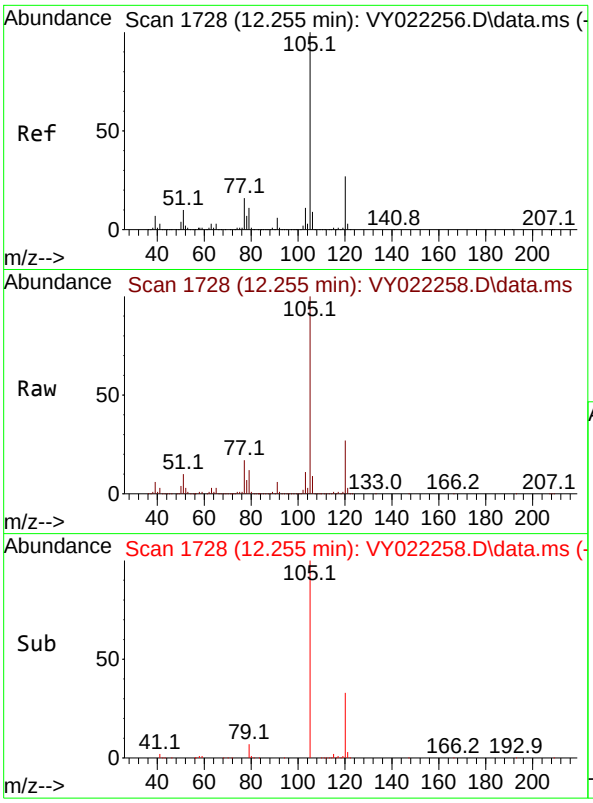


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion:152 Resp: 187978

Ion	Ratio	Lower	Upper
152	100		
115	58.1	29.4	88.2
150	208.7	0.0	353.8

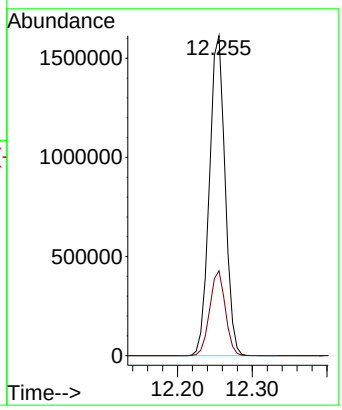




#73
Isopropylbenzene
Concen: 151.387 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion:105 Resp: 235756

Ion	Ratio	Lower	Upper
105	100		
120	26.4	13.2	39.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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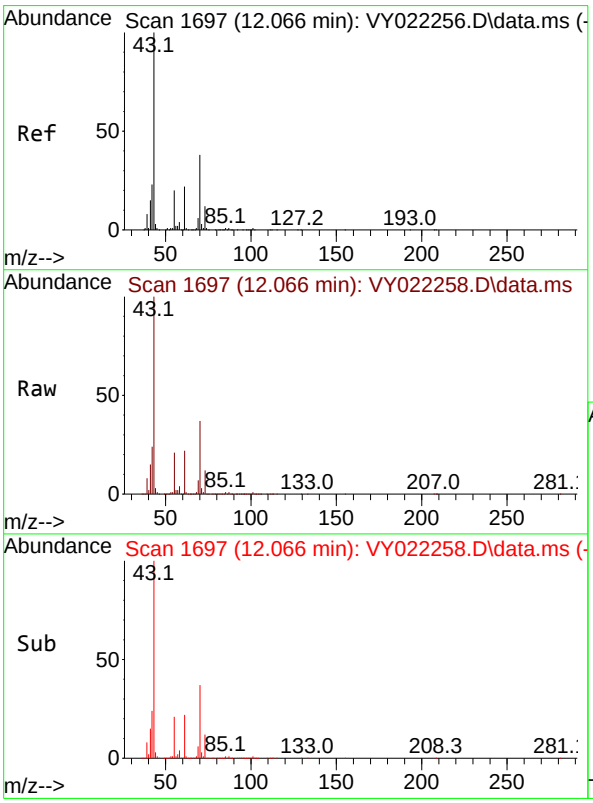
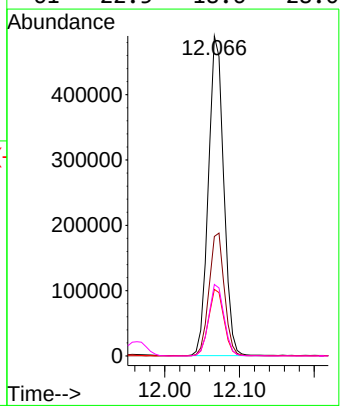
Supervised By :Semsettin Yesilyurt 05/16/2025

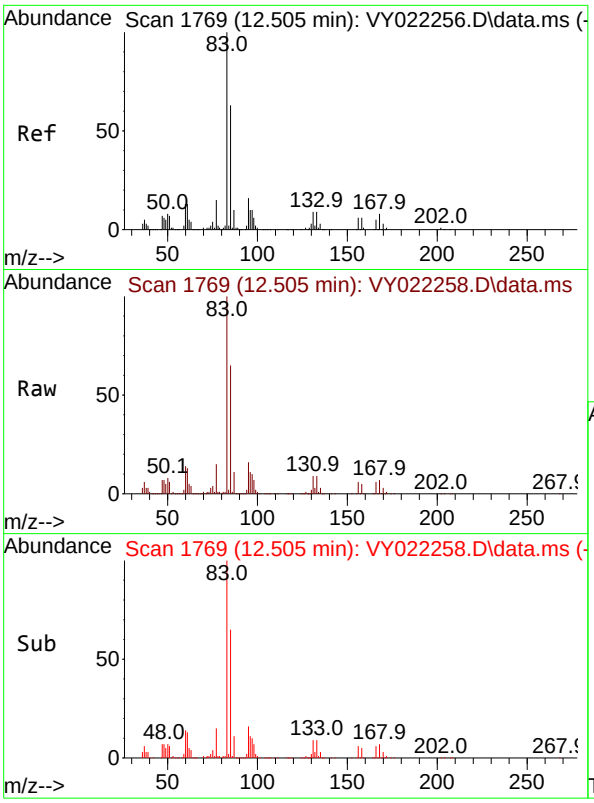


#74
N-amyl acetate
Concen: 156.041 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 43 Resp: 694999

Ion	Ratio	Lower	Upper
43	100		
70	38.7	31.4	47.0
55	21.0	17.0	25.6
61	22.5	18.6	28.0

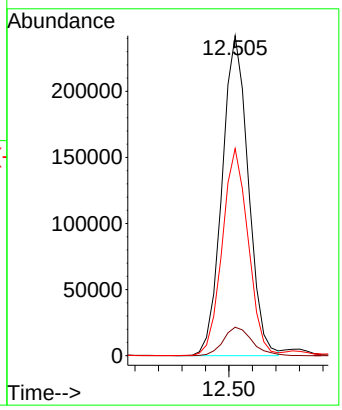




#75
1,1,2,2-Tetrachloroethane
Concen: 156.735 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 83 Resp: 37537

Ion	Ratio	Lower	Upper
83	100		
131	9.8	4.9	14.7
85	63.8	32.0	96.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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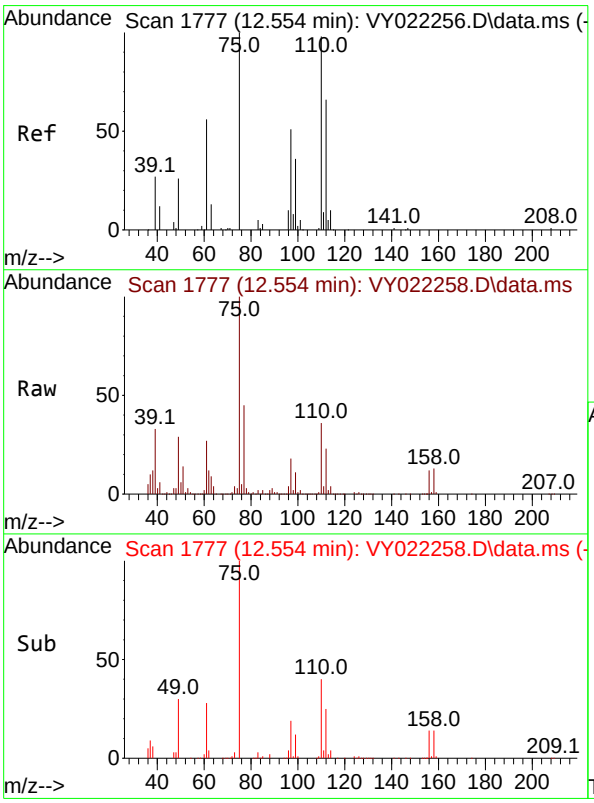
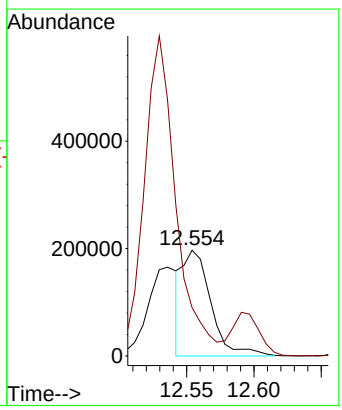
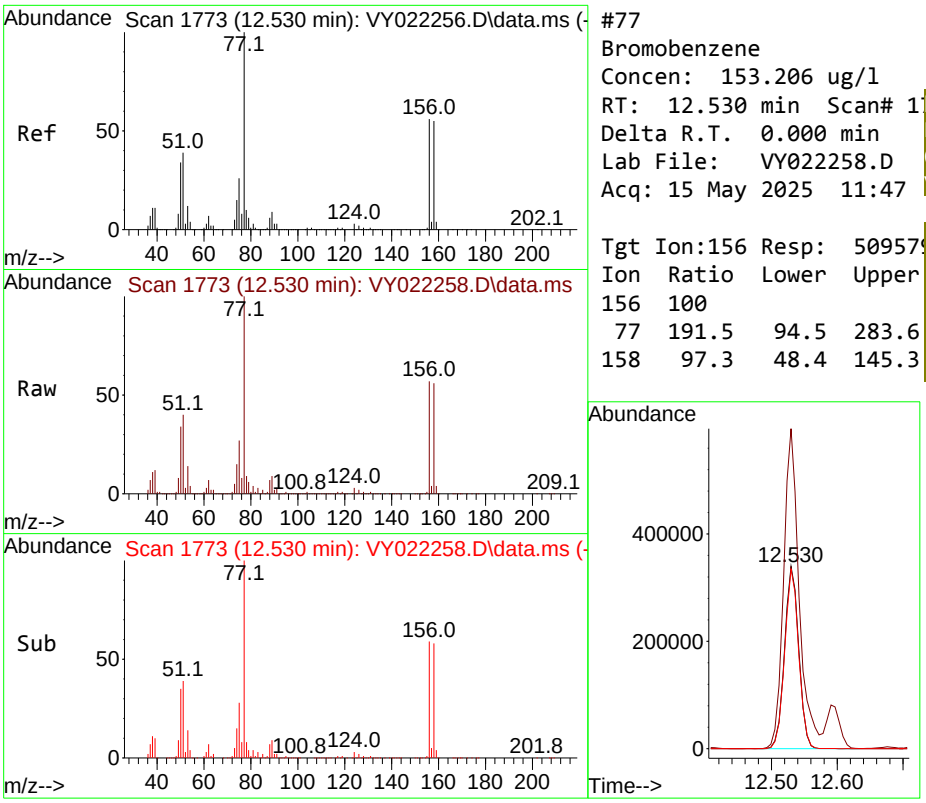


#76
1,2,3-Trichloropropane
Concen: 87.525 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 75 Resp: 289968

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0





#77
Bromobenzene
Concen: 153.206 ug/l
RT: 12.530 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion:156 Resp: 50957

Ion	Ratio	Lower	Upper
156	100		
77	191.5	94.5	283.6
158	97.3	48.4	145.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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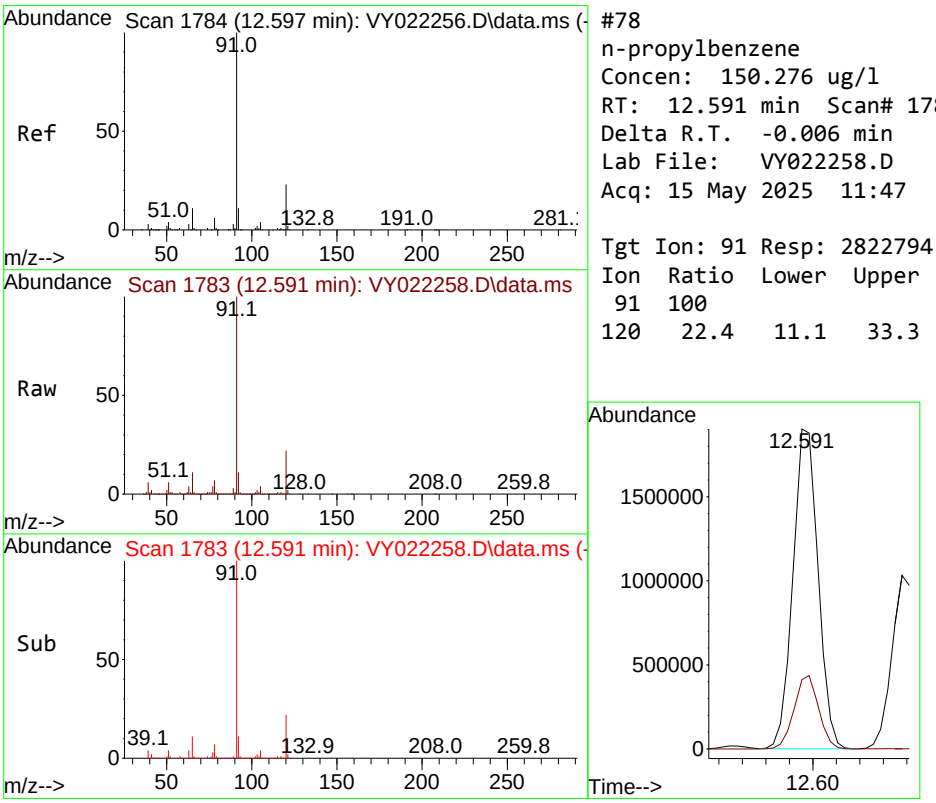
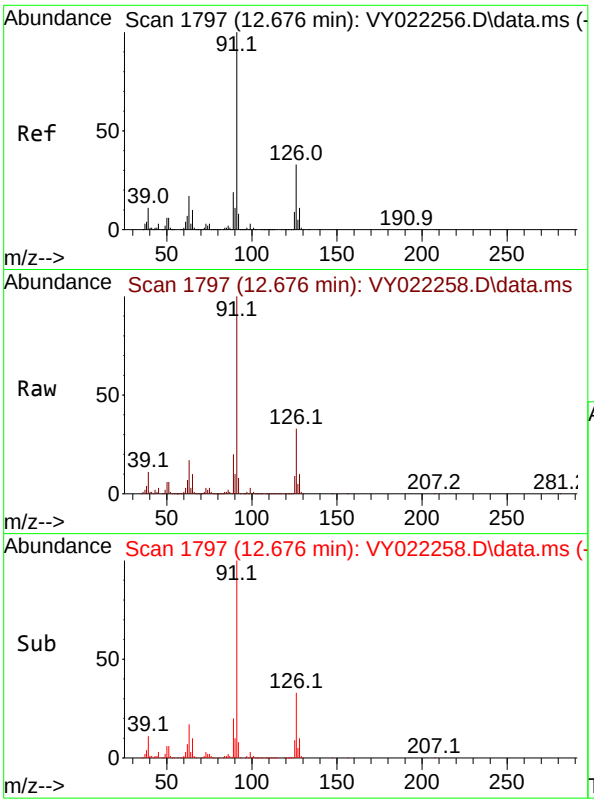


#78
n-propylbenzene
Concen: 150.276 ug/l
RT: 12.591 min Scan# 1783
Delta R.T. -0.006 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 91 Resp: 2822794

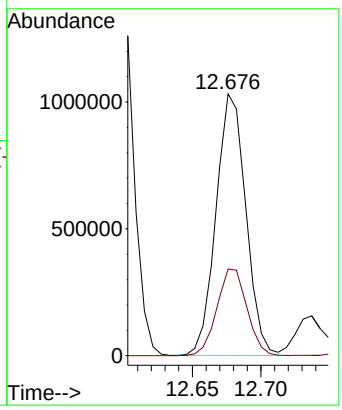
Ion	Ratio	Lower	Upper
91	100		
120	22.4	11.1	33.3



#79
2-Chlorotoluene
Concen: 151.415 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 91 Resp: 156300

Ion	Ratio	Lower	Upper
91	100		
126	33.4	16.8	50.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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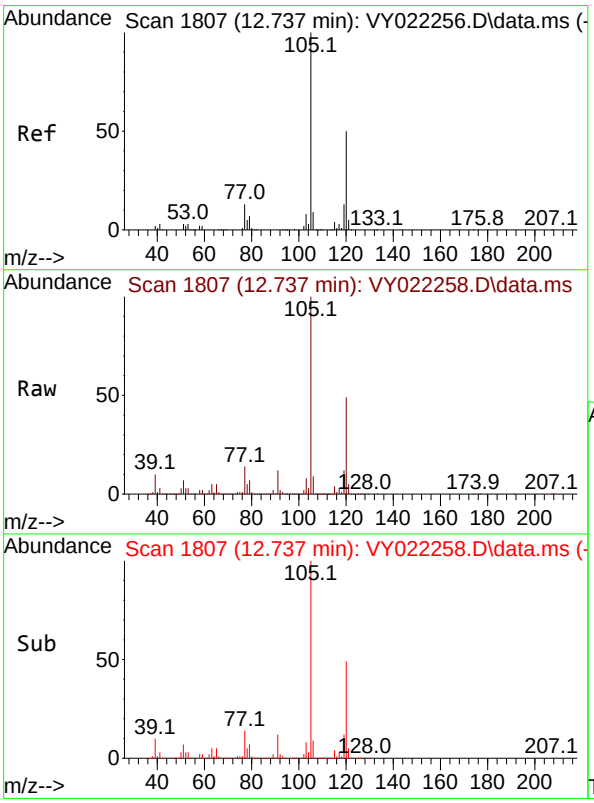
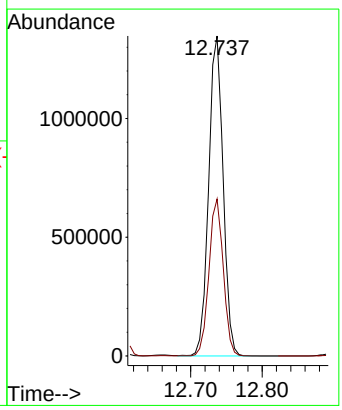
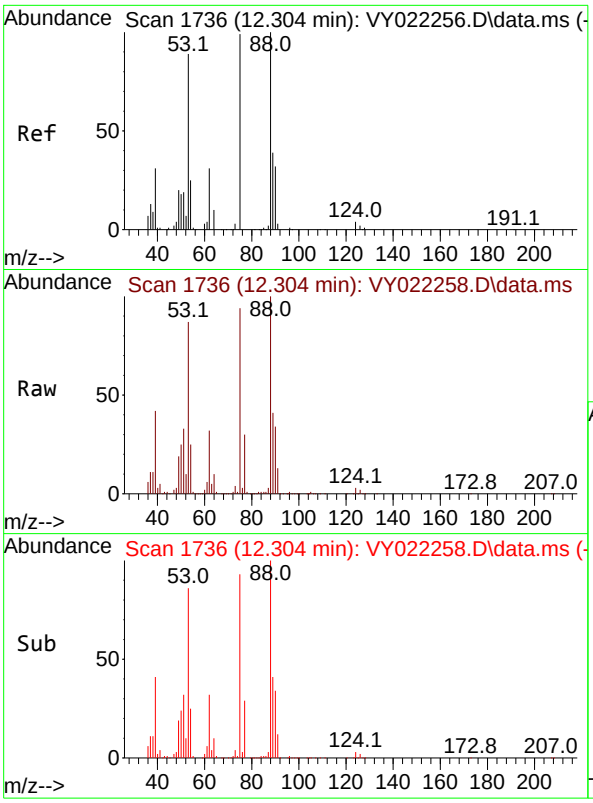


#80
1,3,5-Trimethylbenzene
Concen: 150.219 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion:105 Resp: 1888432

Ion	Ratio	Lower	Upper
105	100		
120	48.7	24.2	72.6





#81
trans-1,4-Dichloro-2-butene
Concen: 148.846 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 75 Resp: 13993

Ion	Ratio	Lower	Upper
75	100		
53	95.1	75.8	113.8
89	44.4	36.2	54.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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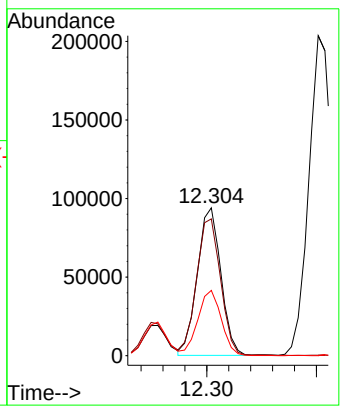
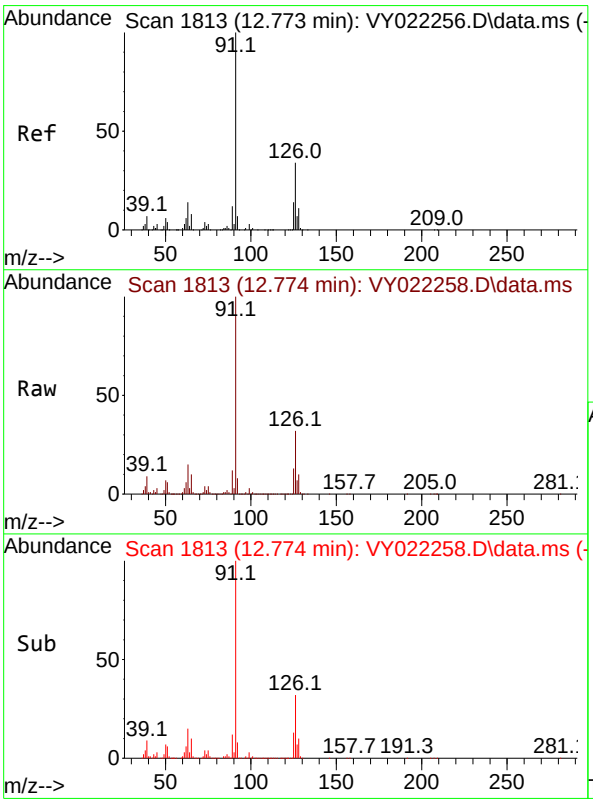
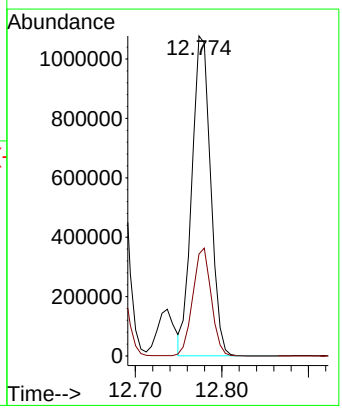


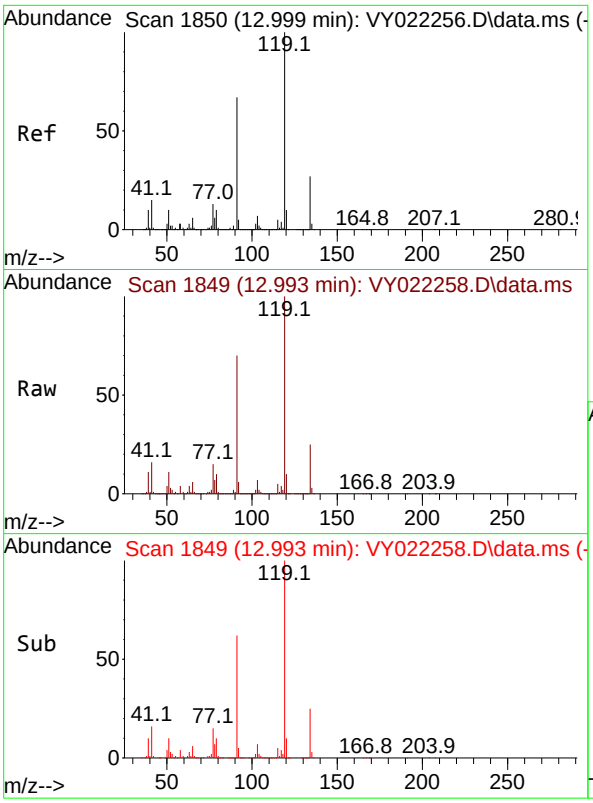


#82
4-Chlorotoluene
Concen: 152.250 ug/l
RT: 12.774 min Scan# 1813
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 91 Resp: 1616520

Ion	Ratio	Lower	Upper
91	100		
126	33.3	16.8	50.4

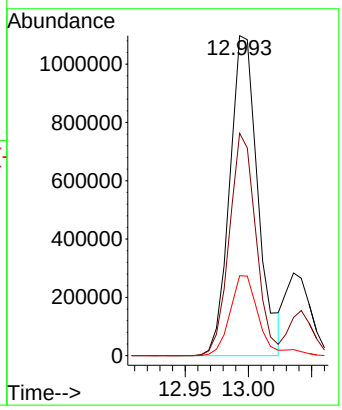




#83
tert-Butylbenzene
Concen: 152.144 ug/l
RT: 12.993 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion:119 Resp: 169996

Ion	Ratio	Lower	Upper
119	100		
91	65.7	32.8	98.3
134	25.9	12.9	38.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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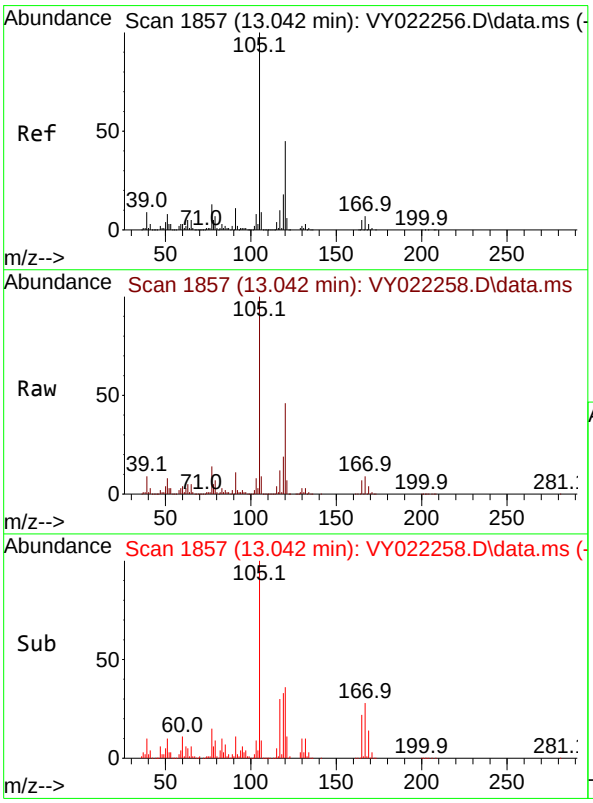
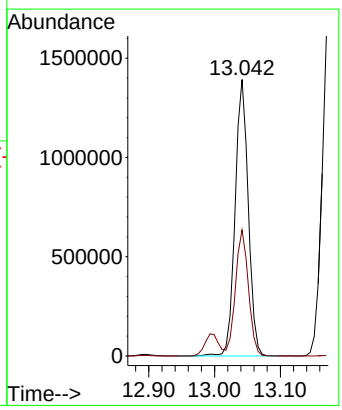
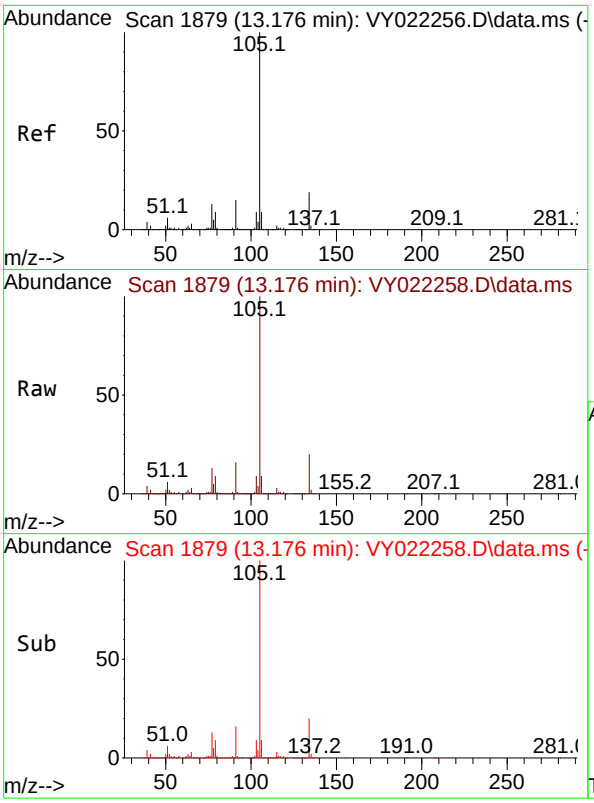


#84
1,2,4-Trimethylbenzene
Concen: 155.030 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion:105 Resp: 1934641

Ion	Ratio	Lower	Upper
105	100		
120	44.7	22.3	66.9

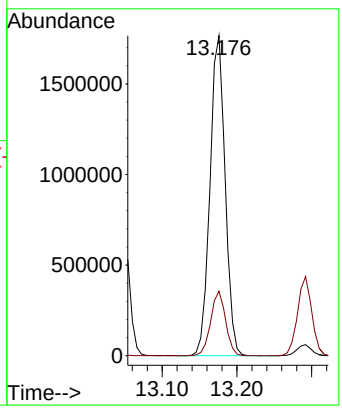




#85
sec-Butylbenzene
Concen: 150.330 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion:105 Resp: 249339

Ion	Ratio	Lower	Upper
105	100		
134	19.8	9.8	29.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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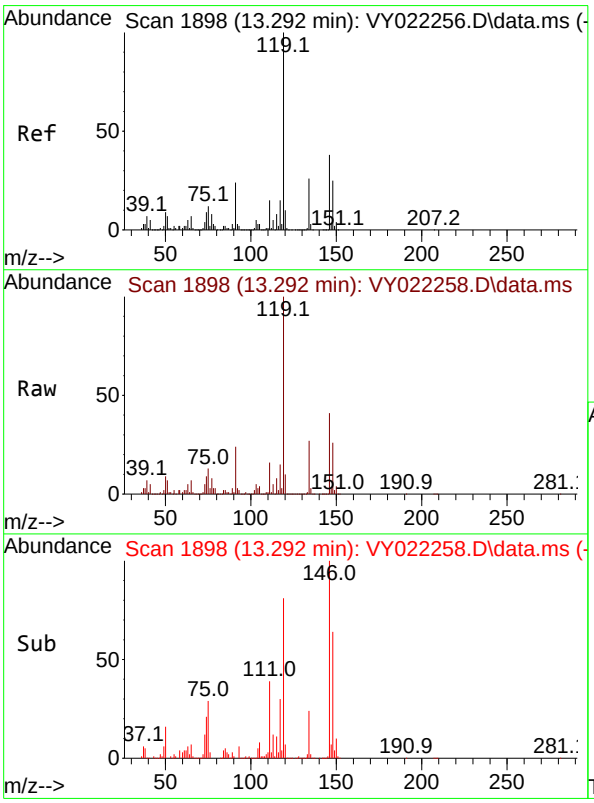
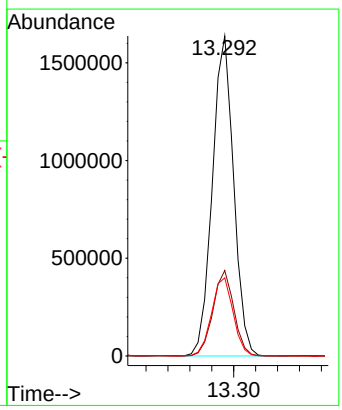
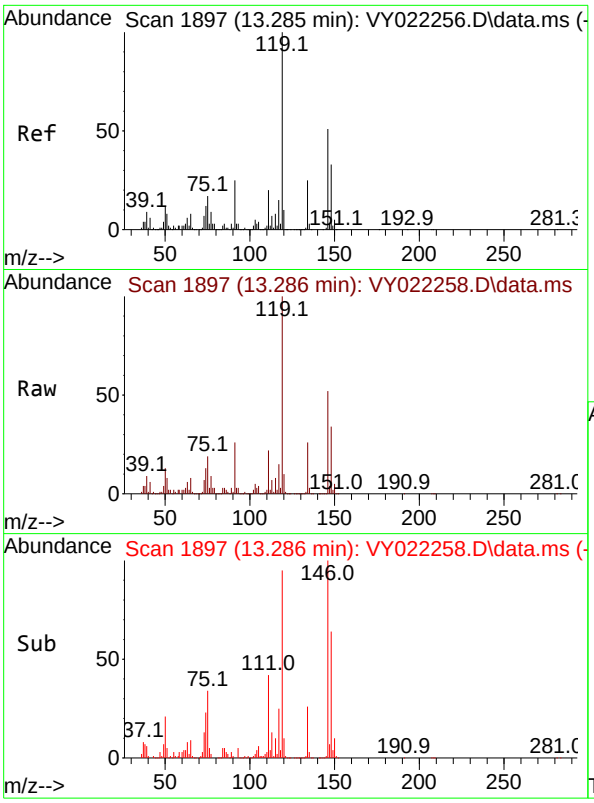


#86
p-Isopropyltoluene
Concen: 158.088 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion:119 Resp: 2205275

Ion	Ratio	Lower	Upper
119	100		
134	26.2	12.9	38.6
91	24.8	12.1	36.3

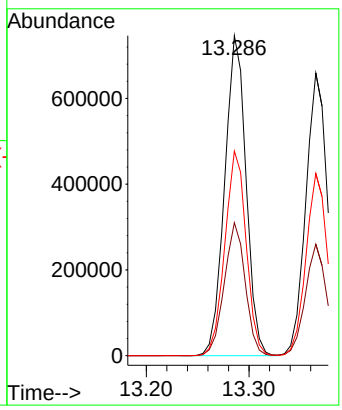




#87
1,3-Dichlorobenzene
Concen: 158.981 ug/l
RT: 13.286 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion:146 Resp: 107947

Ion	Ratio	Lower	Upper
146	100		
111	40.7	19.9	59.7
148	63.8	31.9	95.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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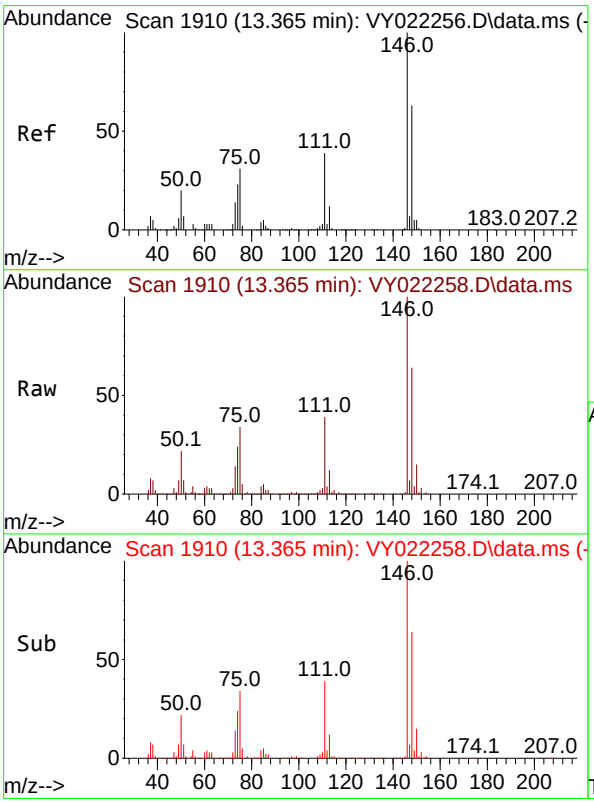
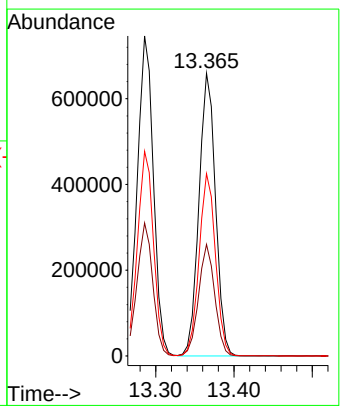
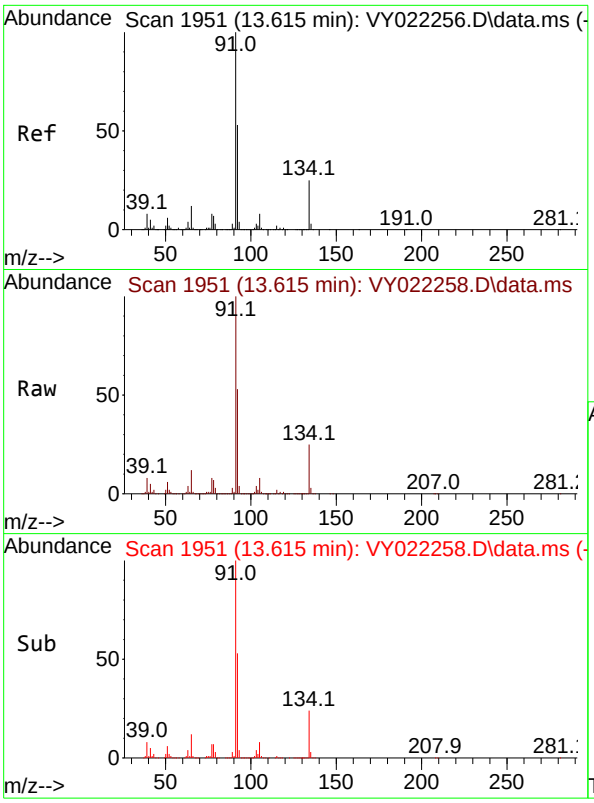


#88
1,4-Dichlorobenzene
Concen: 148.497 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion:146 Resp: 969874

Ion	Ratio	Lower	Upper
146	100		
111	38.4	20.0	59.9
148	63.9	32.1	96.5

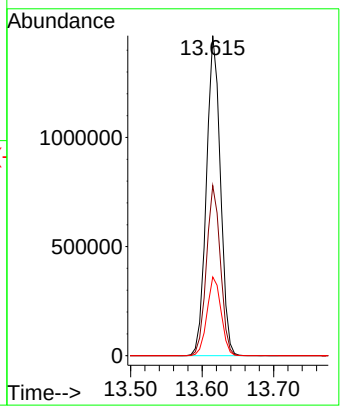




#89
n-Butylbenzene
Concen: 150.985 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 91 Resp: 199255

Ion	Ratio	Lower	Upper
91	100		
92	53.1	26.3	78.9
134	24.8	12.4	37.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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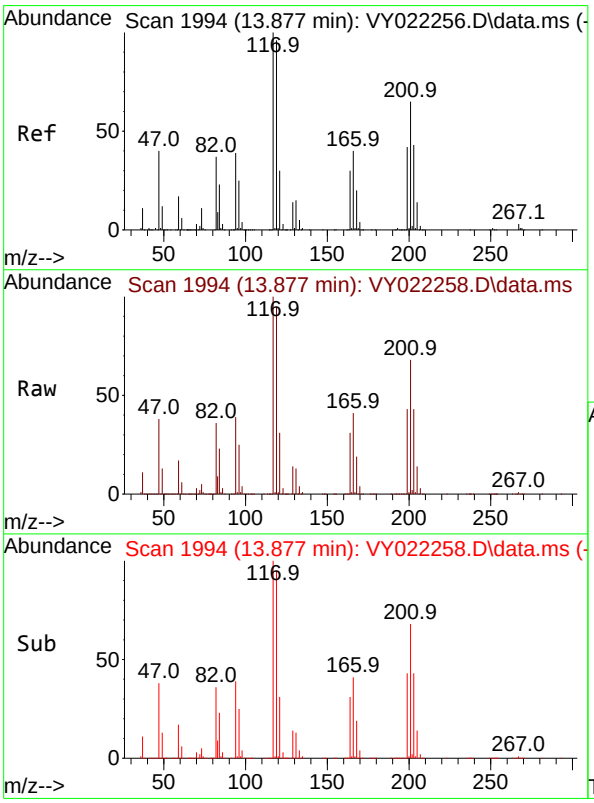
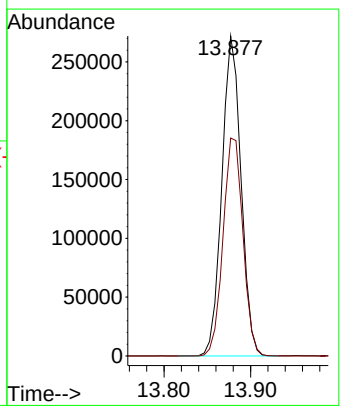
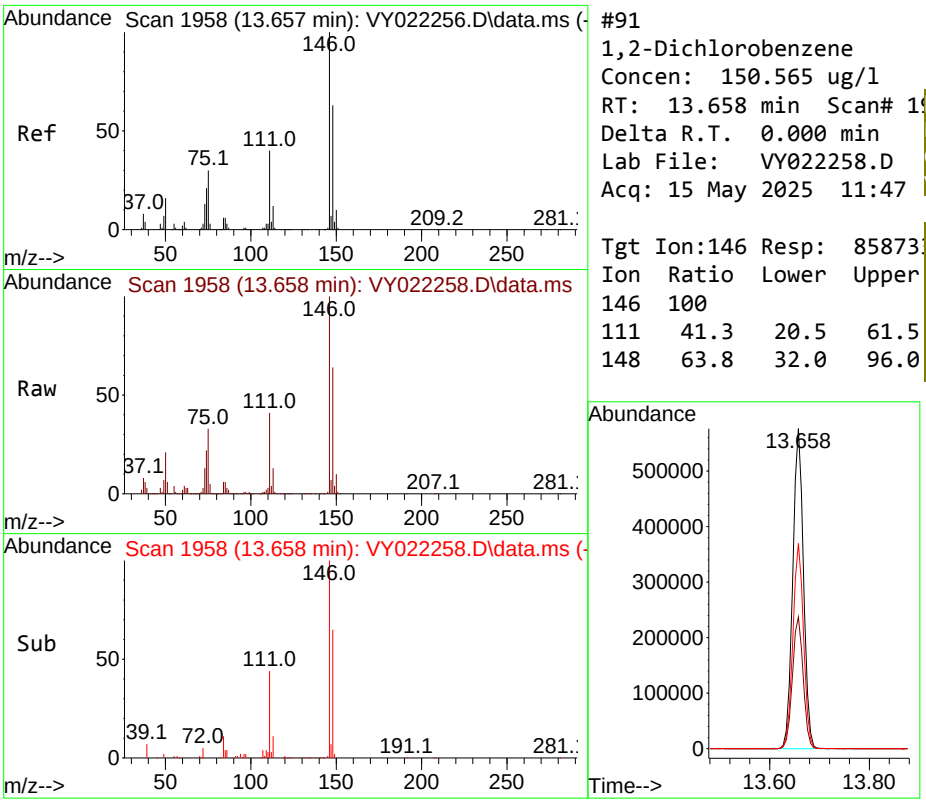


#90
Hexachloroethane
Concen: 148.208 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion:117 Resp: 417341

Ion	Ratio	Lower	Upper
117	100		
201	71.0	35.2	105.6





#91
1,2-Dichlorobenzene
Concen: 150.565 ug/l
RT: 13.658 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

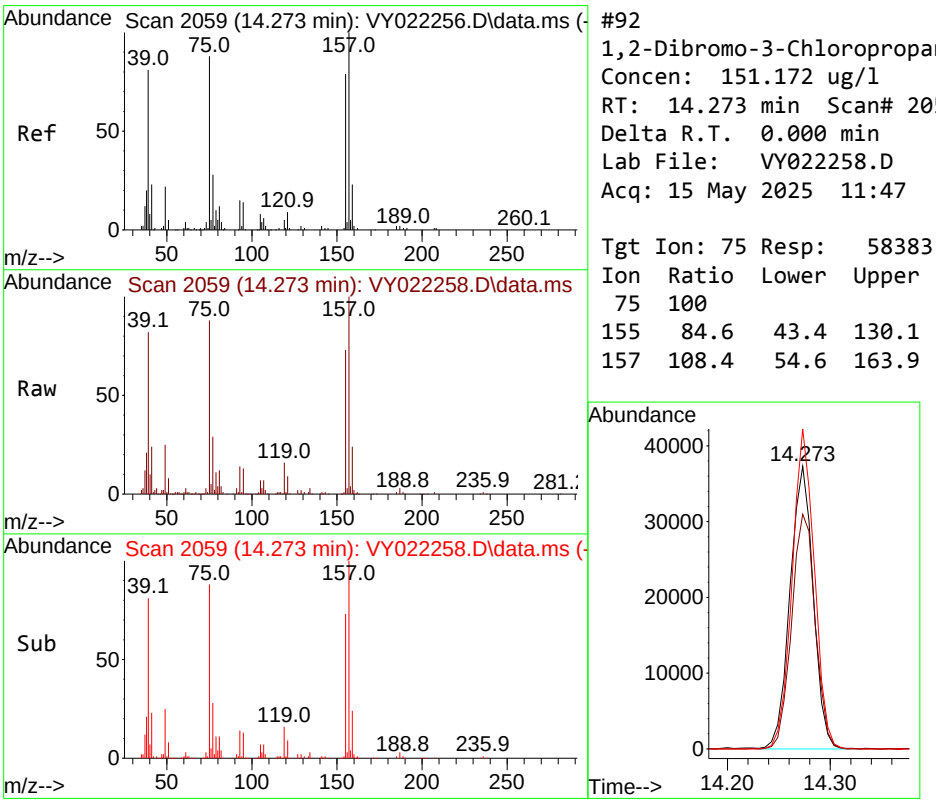
Tgt Ion:146 Resp: 85873

Ion	Ratio	Lower	Upper
146	100		
111	41.3	20.5	61.5
148	63.8	32.0	96.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

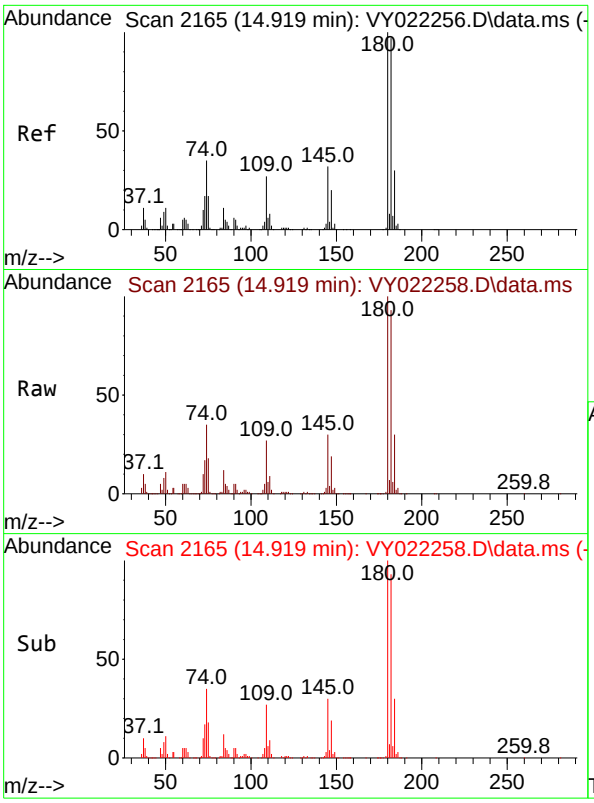
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 151.172 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 75 Resp: 58383

Ion	Ratio	Lower	Upper
75	100		
155	84.6	43.4	130.1
157	108.4	54.6	163.9



#93
1,2,4-Trichlorobenzene
Concen: 154.361 ug/l
RT: 14.919 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

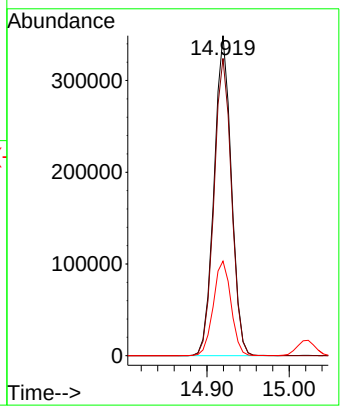
Tgt Ion:180 Resp: 50853

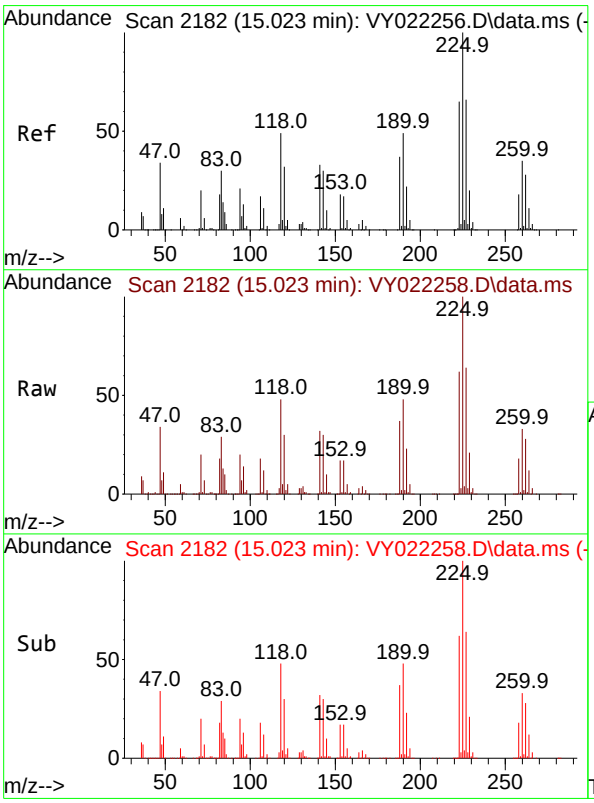
Ion	Ratio	Lower	Upper
180	100		
182	94.3	48.0	144.0
145	30.4	15.0	45.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

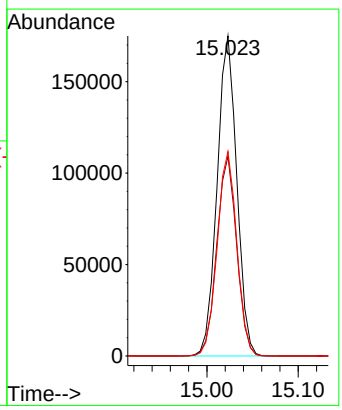


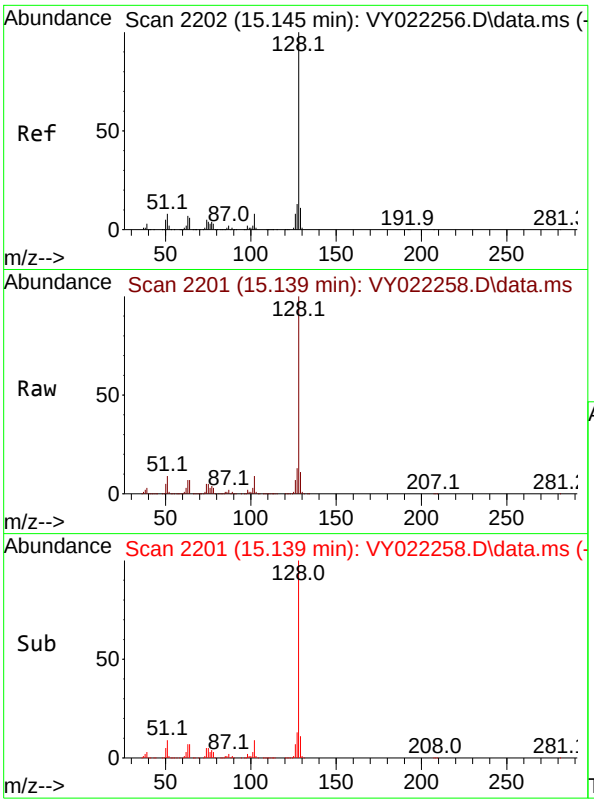


#94
Hexachlorobutadiene
Concen: 142.514 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion:225 Resp: 261832

Ion	Ratio	Lower	Upper
225	100		
223	62.9	31.5	94.5
227	63.8	32.1	96.3

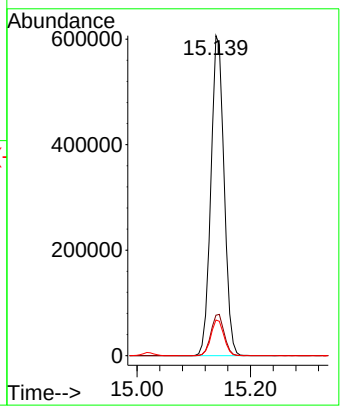




#95
Naphthalene
Concen: 156.653 ug/l
RT: 15.139 min Scan# 2
Delta R.T. -0.006 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion:128 Resp: 97936

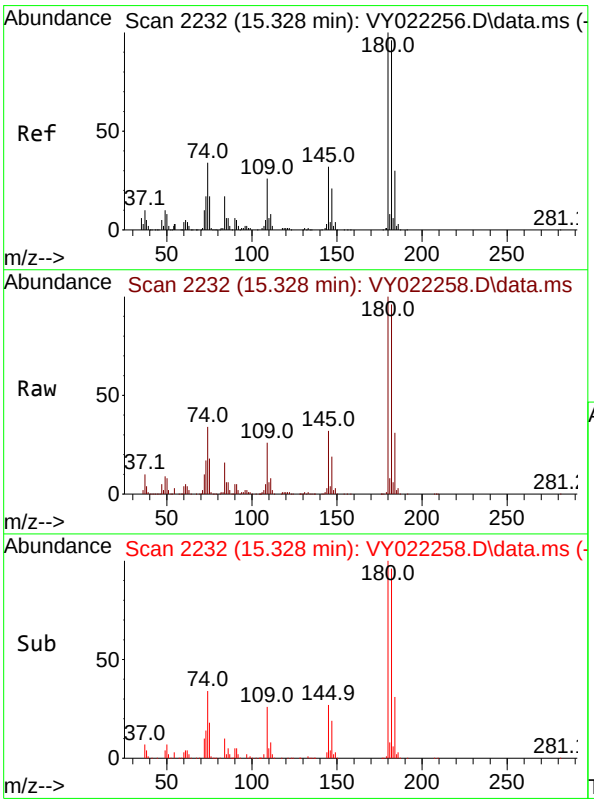
Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.2	15.2
129	11.1	8.8	13.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

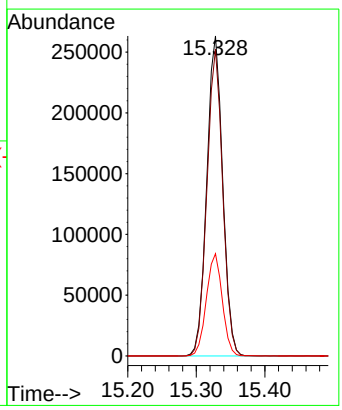
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025



#96
1,2,3-Trichlorobenzene
Concen: 152.509 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion:180 Resp: 426231

Ion	Ratio	Lower	Upper
180	100		
182	94.8	47.1	141.3
145	31.9	15.9	47.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022260.D
Acq On : 15 May 2025 13:20
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

Manual Integrations APPROVED
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

Quant Time: May 16 01:47:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	252715	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	428969	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	375548	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	178387	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	143909	52.104	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 104.200%			
35) Dibromofluoromethane	7.634	113	132263	51.658	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 103.320%			
50) Toluene-d8	10.109	98	537188	51.229	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 102.460%			
62) 4-Bromofluorobenzene	12.408	95	169575	51.020	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 102.040%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	130352	49.432	ug/l	97
3) Chloromethane	2.068	50	270248	48.719	ug/l	98
4) Vinyl Chloride	2.202	62	316755	51.111	ug/l	99
5) Bromomethane	2.598	94	244611	48.486	ug/l	99
6) Chloroethane	2.732	64	205247	53.234	ug/l	99
7) Trichlorofluoromethane	3.056	101	321098	51.174	ug/l	99
8) Diethyl Ether	3.458	74	78386	52.055	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.818	101	140460	51.564	ug/l	100
10) Methyl Iodide	4.007	142	156397	49.606	ug/l	99
11) Tert butyl alcohol	4.872	59	55922	265.144	ug/l #	100
12) 1,1-Dichloroethene	3.793	96	139180	51.487	ug/l	98
13) Acrolein	3.653	56	73495	238.362	ug/l	98
14) Allyl chloride	4.378	41	250342	52.817	ug/l	100
15) Acrylonitrile	5.055	53	164507	265.134	ug/l	99
16) Acetone	3.872	43	130848	252.660	ug/l	99
17) Carbon Disulfide	4.104	76	456302	51.765	ug/l	99
18) Methyl Acetate	4.385	43	97091	59.461	ug/l	98
19) Methyl tert-butyl Ether	5.116	73	395753	53.096	ug/l	99
20) Methylene Chloride	4.610	84	158275	47.298	ug/l	92
21) trans-1,2-Dichloroethene	5.110	96	153819	51.552	ug/l	98
22) Diisopropyl ether	6.018	45	521343	52.085	ug/l	99
23) Vinyl Acetate	5.957	43	1530507	253.098	ug/l	99
24) 1,1-Dichloroethane	5.915	63	288933	51.668	ug/l	97
25) 2-Butanone	6.896	43	221702	255.929	ug/l	97
26) 2,2-Dichloropropane	6.884	77	259587	52.191	ug/l	100
27) cis-1,2-Dichloroethene	6.890	96	180695	52.479	ug/l	100
28) Bromochloromethane	7.250	49	124761	52.305	ug/l	99
29) Tetrahydrofuran	7.262	42	147603	264.847	ug/l	99
30) Chloroform	7.421	83	283264	52.810	ug/l	100
31) Cyclohexane	7.701	56	271949	48.673	ug/l	99
32) 1,1,1-Trichloroethane	7.616	97	253549	51.523	ug/l	99
36) 1,1-Dichloropropene	7.835	75	212786	50.457	ug/l	99
37) Ethyl Acetate	6.982	43	102740	50.633	ug/l	98
38) Carbon Tetrachloride	7.817	117	220636	50.543	ug/l	98
39) Methylcyclohexane	9.109	83	283373	50.015	ug/l	98
40) Benzene	8.079	78	646289	51.696	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022260.D
Acq On : 15 May 2025 13:20
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 16 01:47:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.244	41	72143m	53.599	ug/l		
42) 1,2-Dichloroethane	8.158	62	175241	51.834	ug/l		100
43) Isopropyl Acetate	8.195	43	227521	51.415	ug/l	#	89
44) Trichloroethene	8.865	130	156468	50.335	ug/l		96
45) 1,2-Dichloropropane	9.140	63	154975	51.417	ug/l		99
46) Dibromomethane	9.231	93	83597	51.423	ug/l		100
47) Bromodichloromethane	9.426	83	221446	52.508	ug/l		99
48) Methyl methacrylate	9.219	41	106283	51.357	ug/l		98
49) 1,4-Dioxane	9.231	88	18521	1008.479	ug/l		95
51) 4-Methyl-2-Pentanone	9.999	43	567722	261.463	ug/l		99
52) Toluene	10.170	92	406420	51.337	ug/l		99
53) t-1,3-Dichloropropene	10.396	75	211790	51.458	ug/l		98
54) cis-1,3-Dichloropropene	9.853	75	244811	51.916	ug/l		100
55) 1,1,2-Trichloroethane	10.572	97	106464	51.142	ug/l		99
56) Ethyl methacrylate	10.438	69	164207	50.639	ug/l		99
57) 1,3-Dichloropropane	10.719	76	191889	51.880	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.713	63	394587	271.104	ug/l		100
59) 2-Hexanone	10.761	43	375224	257.738	ug/l		100
60) Dibromochloromethane	10.914	129	141652	52.425	ug/l		99
61) 1,2-Dibromoethane	11.018	107	99783	51.428	ug/l		99
64) Tetrachloroethene	10.646	164	162818	46.905	ug/l		99
65) Chlorobenzene	11.444	112	422170	49.827	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.517	131	144636	49.656	ug/l		99
67) Ethyl Benzene	11.517	91	794978	50.100	ug/l		99
68) m/p-Xylenes	11.627	106	604420	101.087	ug/l		99
69) o-Xylene	11.956	106	286712	50.682	ug/l		98
70) Styrene	11.969	104	481621	50.471	ug/l		99
71) Bromoform	12.133	173	80216	51.022	ug/l	#	100
73) Isopropylbenzene	12.255	105	738398	49.964	ug/l		100
74) N-amyl acetate	12.072	43	210510	49.805	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.505	83	120599	53.062	ug/l		97
76) 1,2,3-Trichloropropane	12.560	75	96804m	53.564	ug/l		
77) Bromobenzene	12.536	156	155843	49.374	ug/l		97
78) n-propylbenzene	12.596	91	896555	50.296	ug/l		100
79) 2-Chlorotoluene	12.682	91	491073	50.130	ug/l		100
80) 1,3,5-Trimethylbenzene	12.737	105	592100	49.632	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.304	75	43921	49.231	ug/l		99
82) 4-Chlorotoluene	12.779	91	510451	50.661	ug/l		100
83) tert-Butylbenzene	12.999	119	527140	49.715	ug/l		100
84) 1,2,4-Trimethylbenzene	13.042	105	598450	50.535	ug/l		99
85) sec-Butylbenzene	13.176	105	787000	50.000	ug/l		100
86) p-Isopropyltoluene	13.291	119	664795	50.219	ug/l		99
87) 1,3-Dichlorobenzene	13.291	146	320357	49.718	ug/l		100
88) 1,4-Dichlorobenzene	13.365	146	307847	49.669	ug/l		98
89) n-Butylbenzene	13.621	91	631222	50.402	ug/l		100
90) Hexachloroethane	13.883	117	132281	49.502	ug/l		100
91) 1,2-Dichlorobenzene	13.657	146	270373	49.954	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	18335	50.028	ug/l		98
93) 1,2,4-Trichlorobenzene	14.919	180	152548	48.794	ug/l		99
94) Hexachlorobutadiene	15.023	225	83287	47.770	ug/l		99
95) Naphthalene	15.145	128	287276	48.421	ug/l		100
96) 1,2,3-Trichlorobenzene	15.328	180	127466	48.060	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022260.D
Acq On : 15 May 2025 13:20
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

Quant Time: May 16 01:47:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022260.D
Acq On : 15 May 2025 13:20
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 16 01:47:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 05/16/2025
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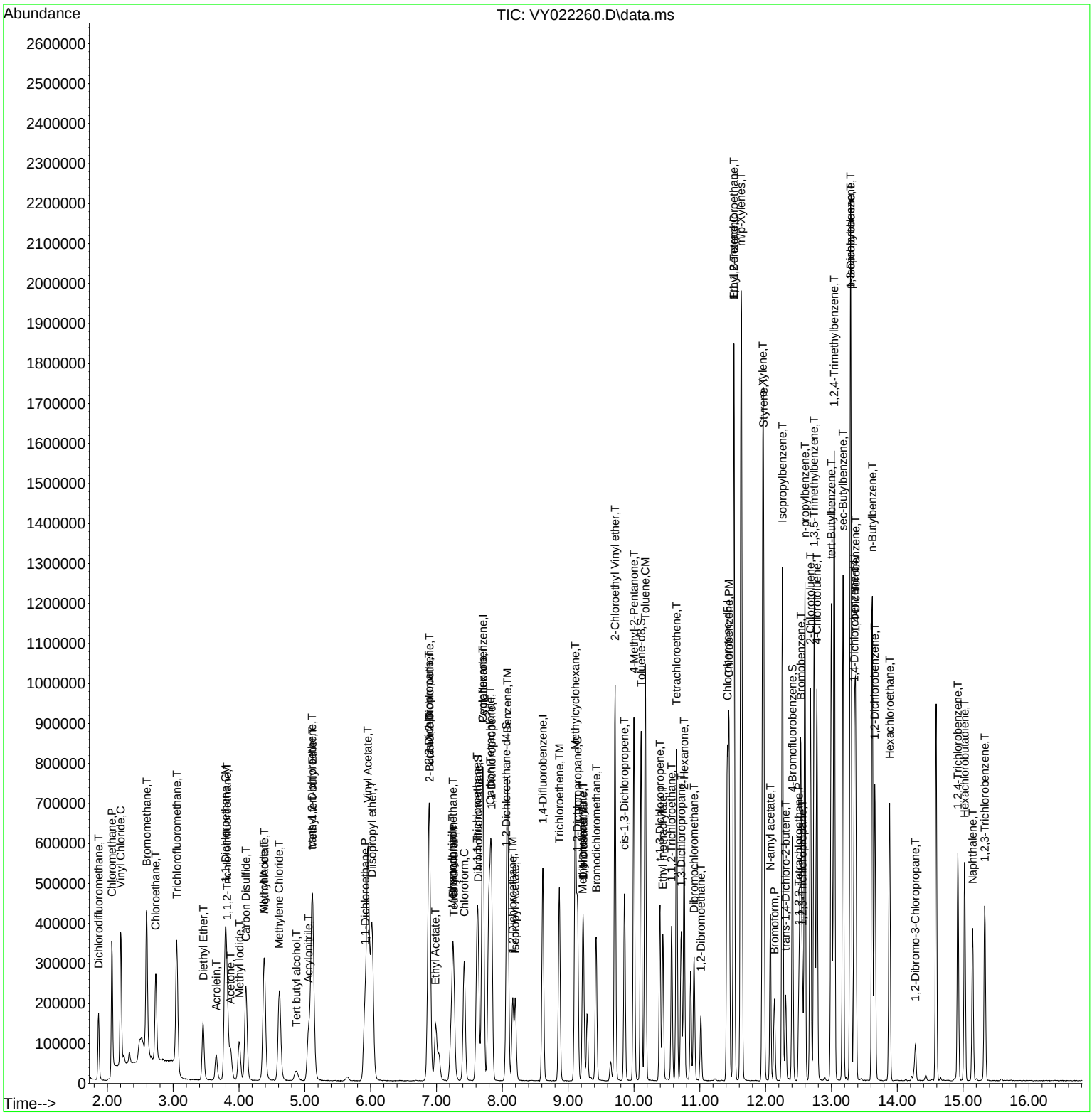
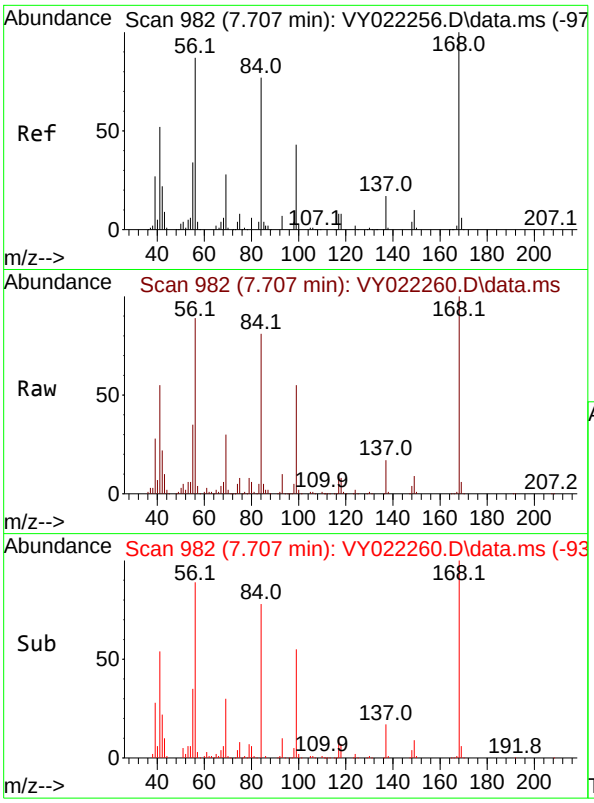
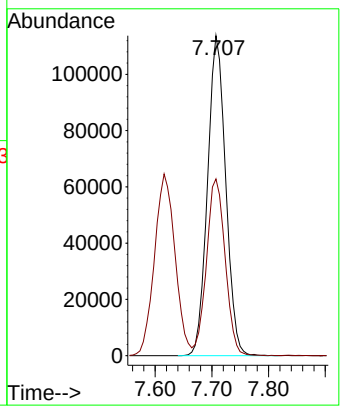




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion:168 Resp: 25271

Ion	Ratio	Lower	Upper
168	100		
99	55.2	44.2	66.4



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

Manual Integrations APPROVED

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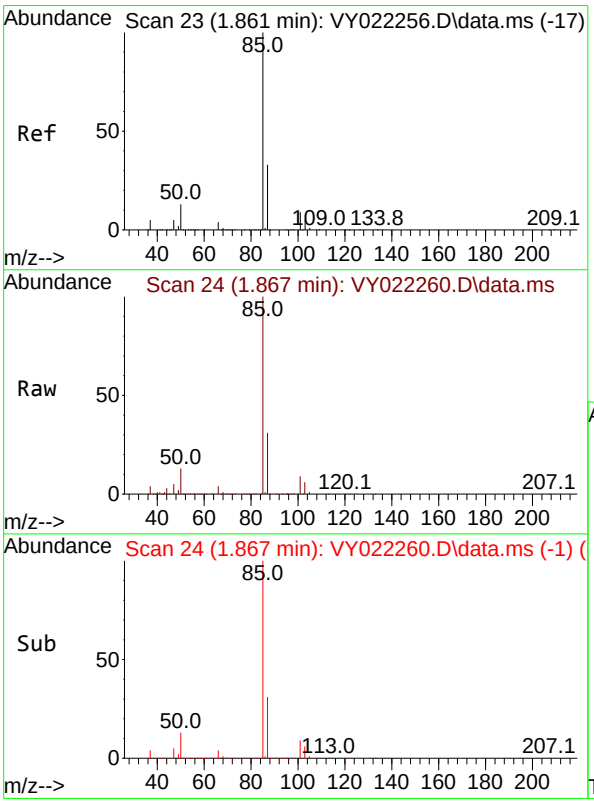
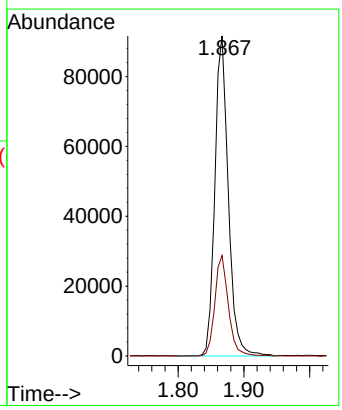
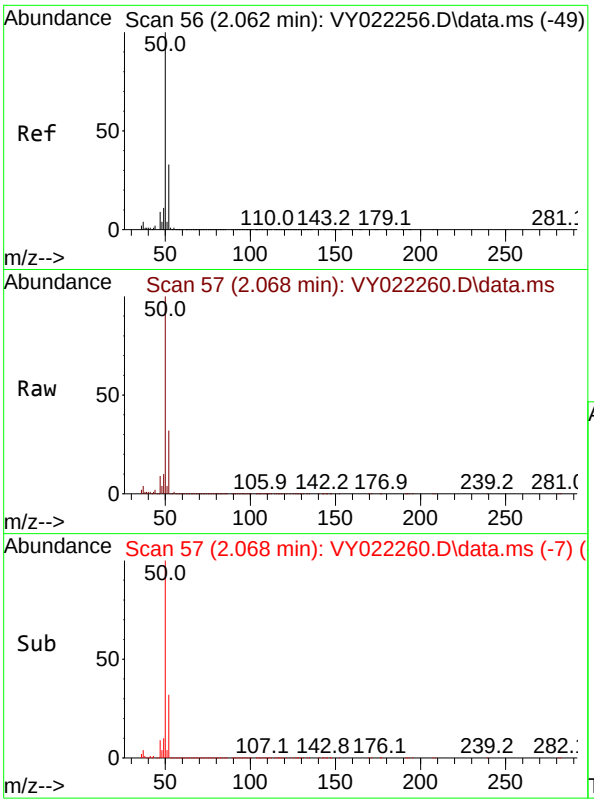


#2
Dichlorodifluoromethane
Concen: 49.432 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.006 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 85 Resp: 130352

Ion	Ratio	Lower	Upper
85	100		
87	31.4	16.5	49.5

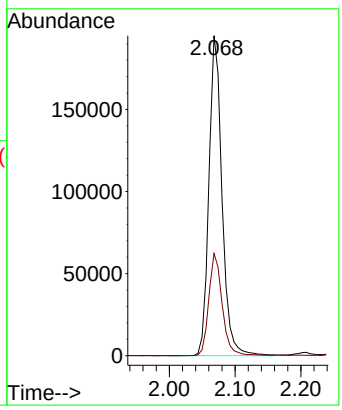




#3
Chloromethane
Concen: 48.719 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 50 Resp: 27024

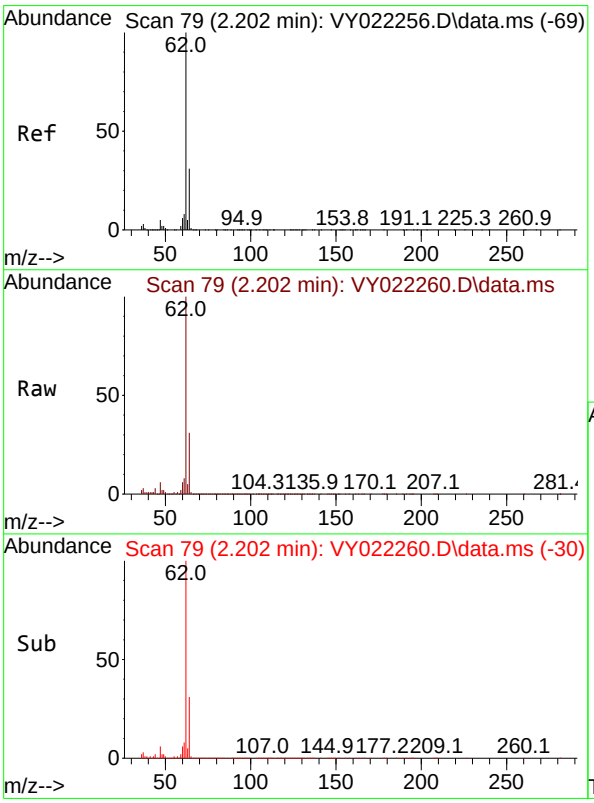
Ion	Ratio	Lower	Upper
50	100		
52	31.9	26.5	39.7



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

Manual Integrations APPROVED

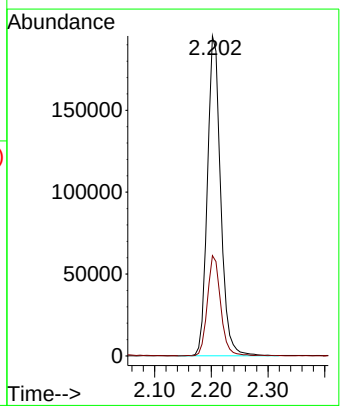
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

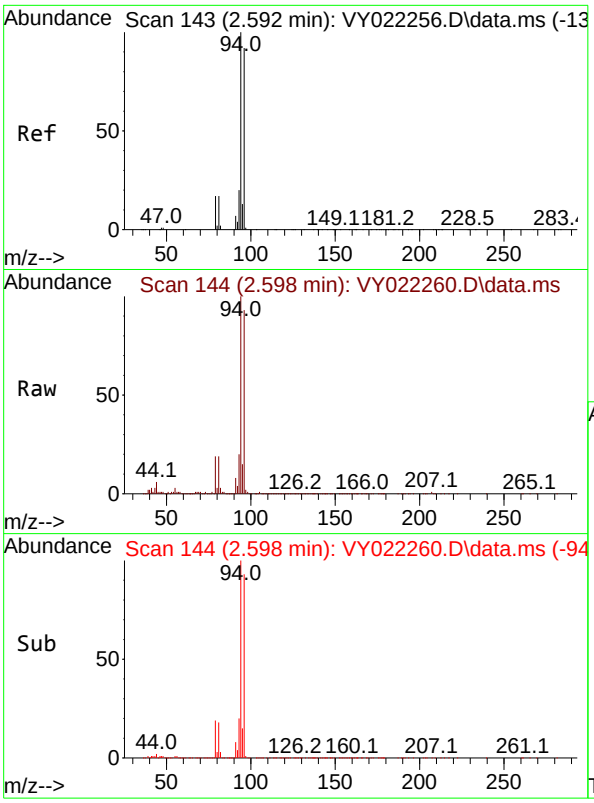


#4
Vinyl Chloride
Concen: 51.111 ug/l
RT: 2.202 min Scan# 79
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 62 Resp: 316755

Ion	Ratio	Lower	Upper
62	100		
64	31.3	24.5	36.7

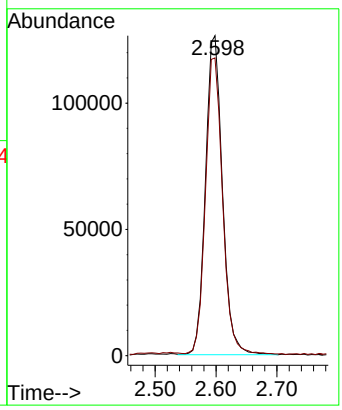




#5
Bromomethane
Concen: 48.486 ug/l
RT: 2.598 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 94 Resp: 24461

Ion	Ratio	Lower	Upper
94	100		
96	92.8	73.4	110.0



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

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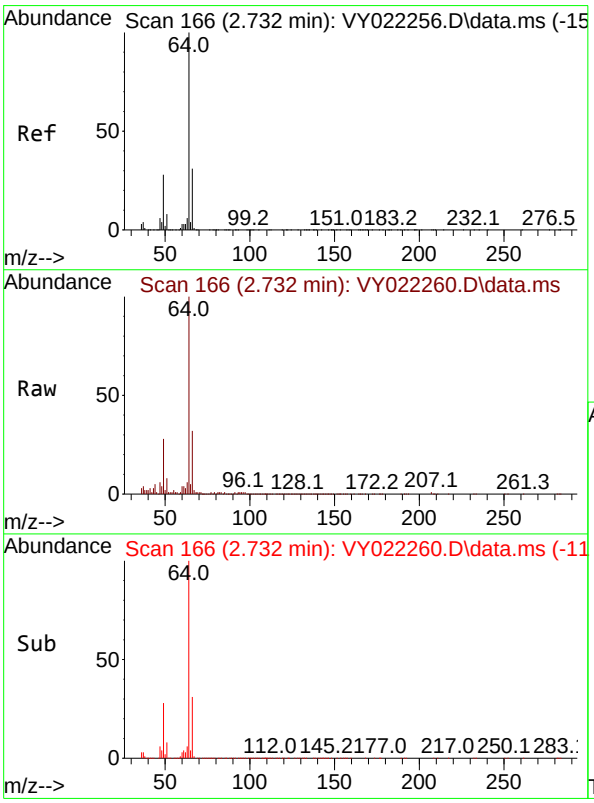
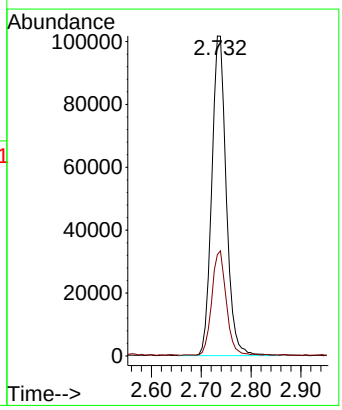
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

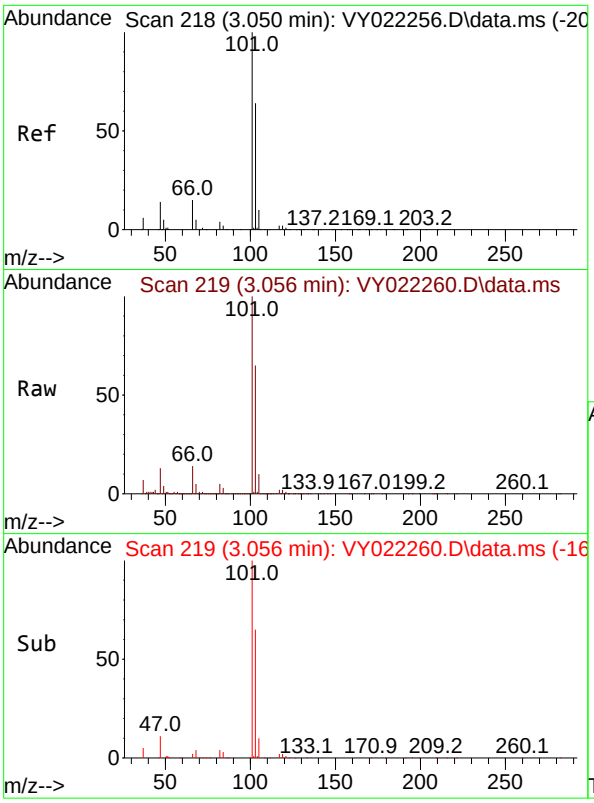


#6
Chloroethane
Concen: 53.234 ug/l
RT: 2.732 min Scan# 166
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 64 Resp: 205247

Ion	Ratio	Lower	Upper
64	100		
66	31.4	24.8	37.2

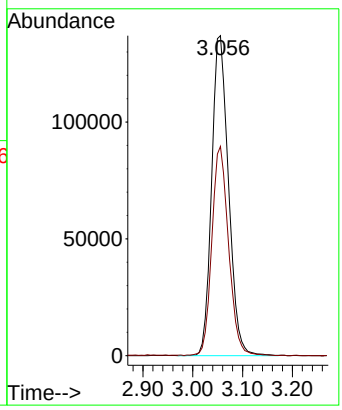




#7
Trichlorofluoromethane
Concen: 51.174 ug/l
RT: 3.056 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion:101 Resp: 32109

Ion	Ratio	Lower	Upper
101	100		
103	65.3	51.7	77.5



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

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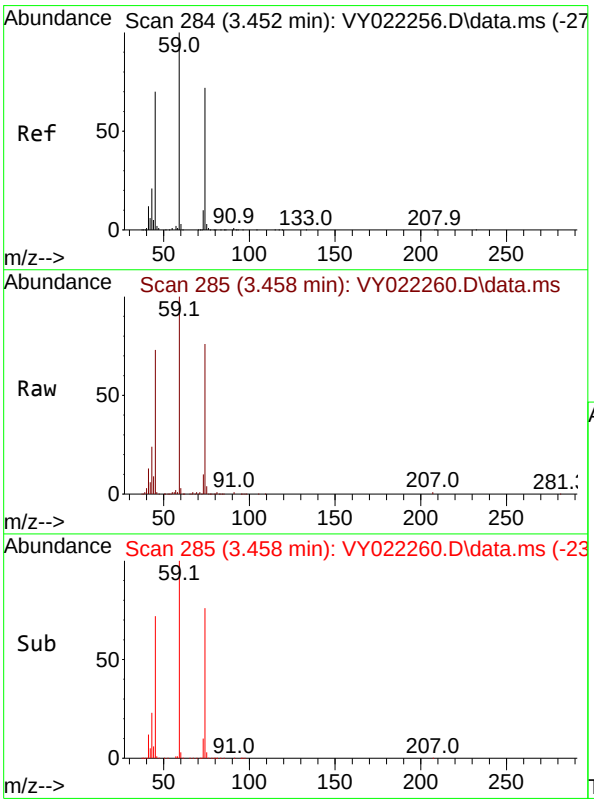
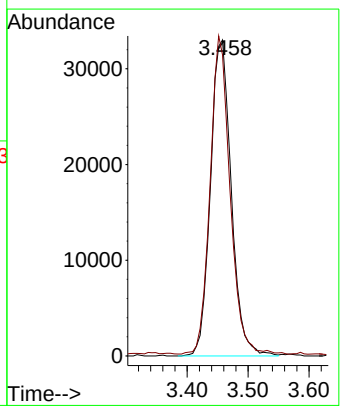
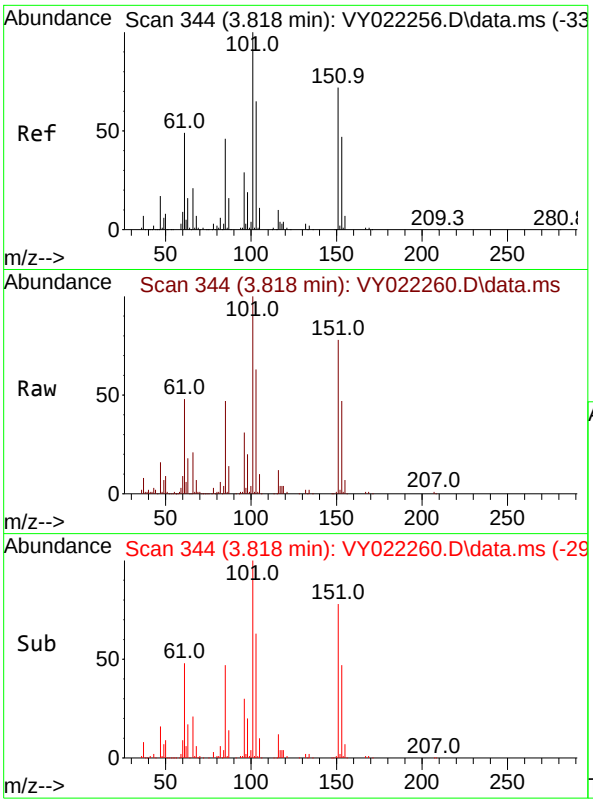


#8
Diethyl Ether
Concen: 52.055 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.006 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 74 Resp: 78386

Ion	Ratio	Lower	Upper
74	100		
45	96.3	48.6	145.8





#9
1,1,2-Trichlorotrifluoroethane
Concen: 51.564 ug/l
RT: 3.818 min Scan# 34
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion:101 Resp: 14046

Ion	Ratio	Lower	Upper
101	100		
85	47.9	38.6	58.0
151	74.9	59.7	89.5

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

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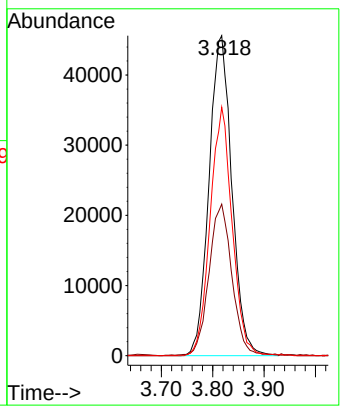
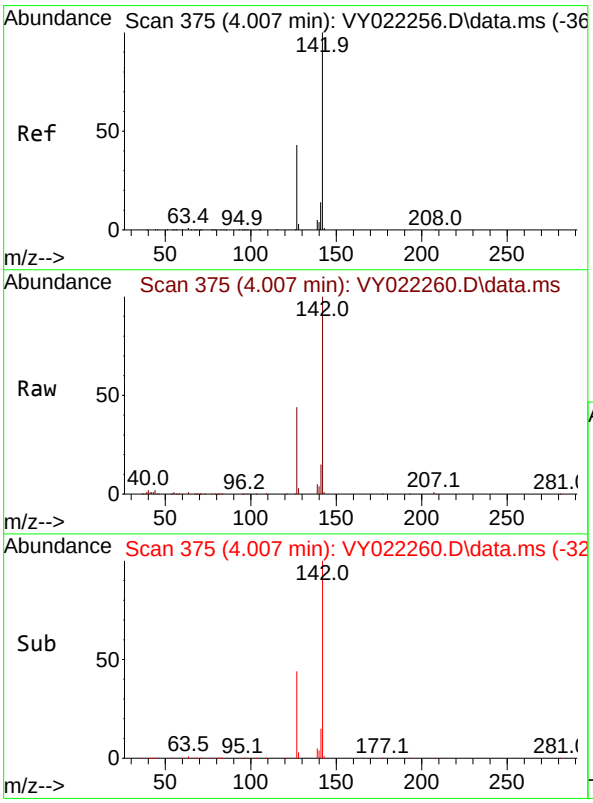
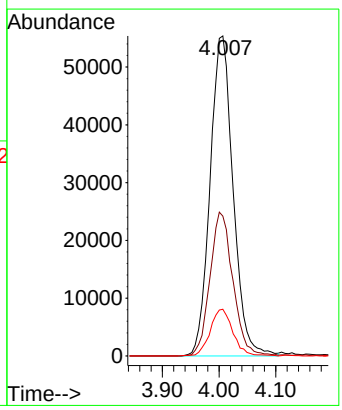


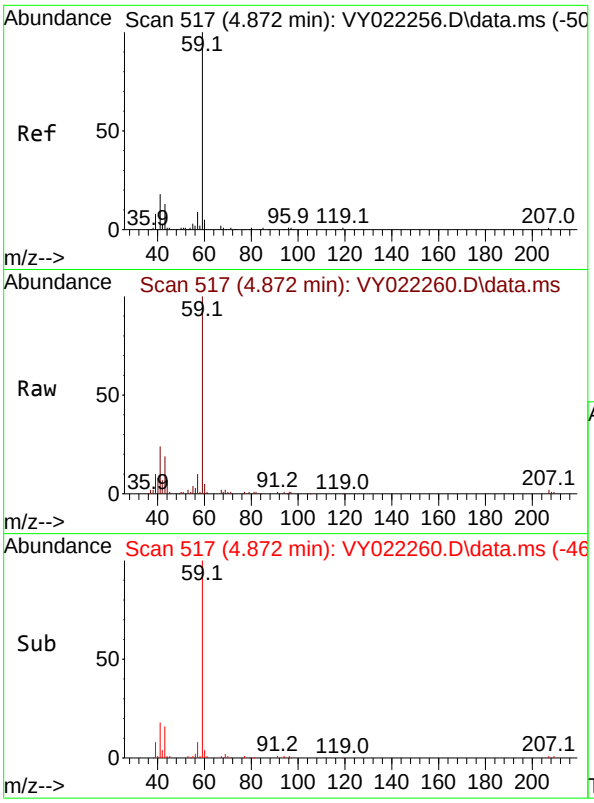


#10
Methyl Iodide
Concen: 49.606 ug/l
RT: 4.007 min Scan# 375
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion:142 Resp: 156397

Ion	Ratio	Lower	Upper
142	100		
127	44.8	35.7	53.5
141	14.4	11.1	16.7





#11
Tert butyl alcohol
Concen: 265.144 ug/l
RT: 4.872 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 59 Resp: 5592

Ion	Ratio	Lower	Upper
59	100		
57	10.7	0.0	0.0

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

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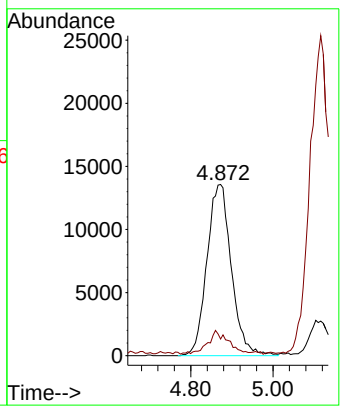
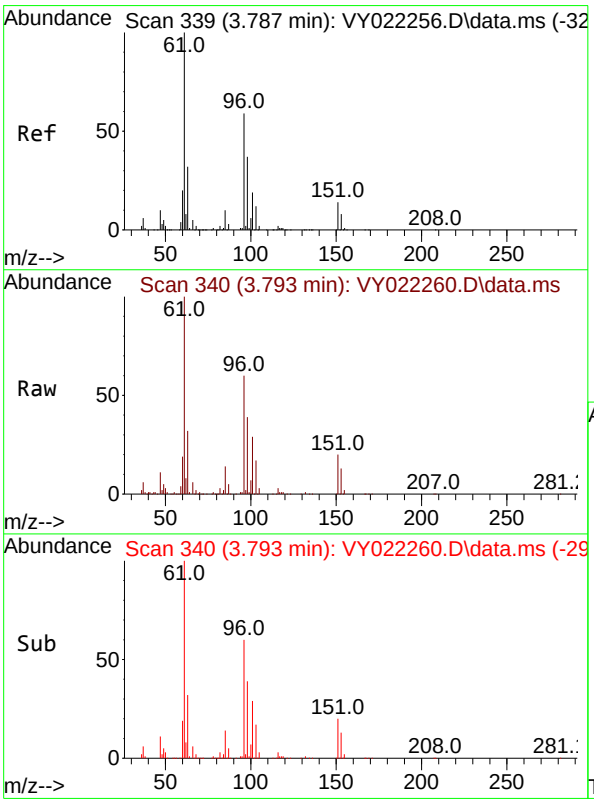
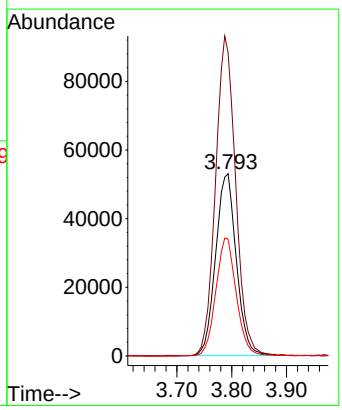


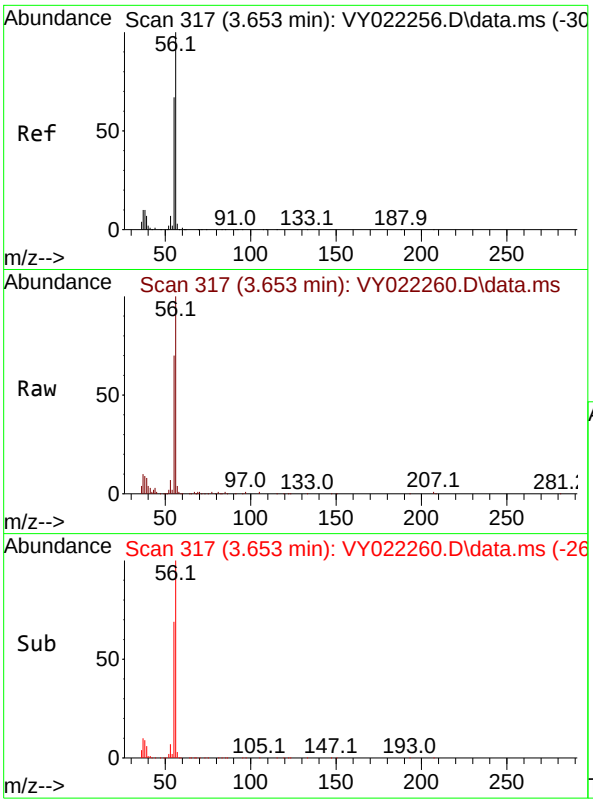


#12
1,1-Dichloroethene
Concen: 51.487 ug/l
RT: 3.793 min Scan# 340
Delta R.T. 0.006 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 96 Resp: 139180

Ion	Ratio	Lower	Upper
96	100		
61	166.8	134.9	202.3
98	64.1	49.9	74.9

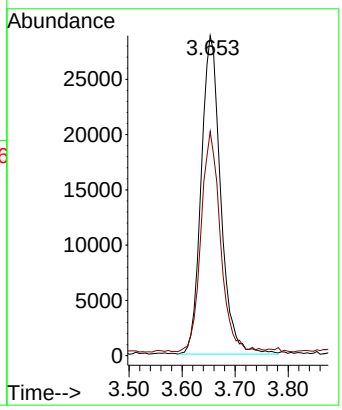




#13
Acrolein
Concen: 238.362 ug/l
RT: 3.653 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 56 Resp: 7349

Ion	Ratio	Lower	Upper
56	100		
55	68.2	55.6	83.4



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

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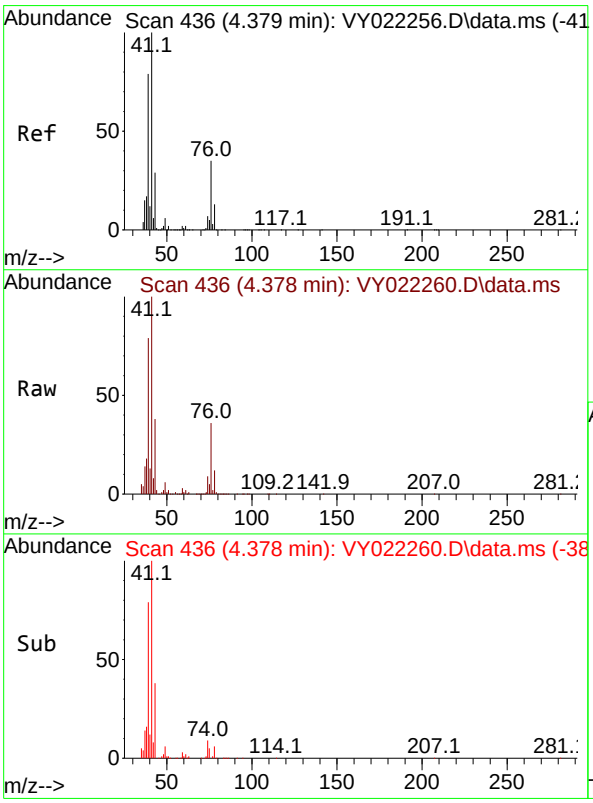
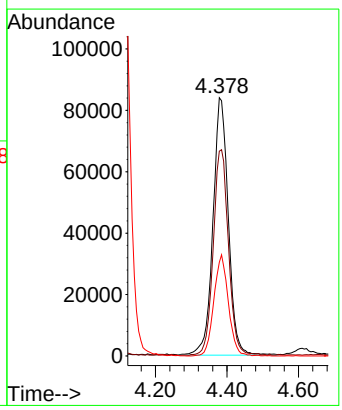
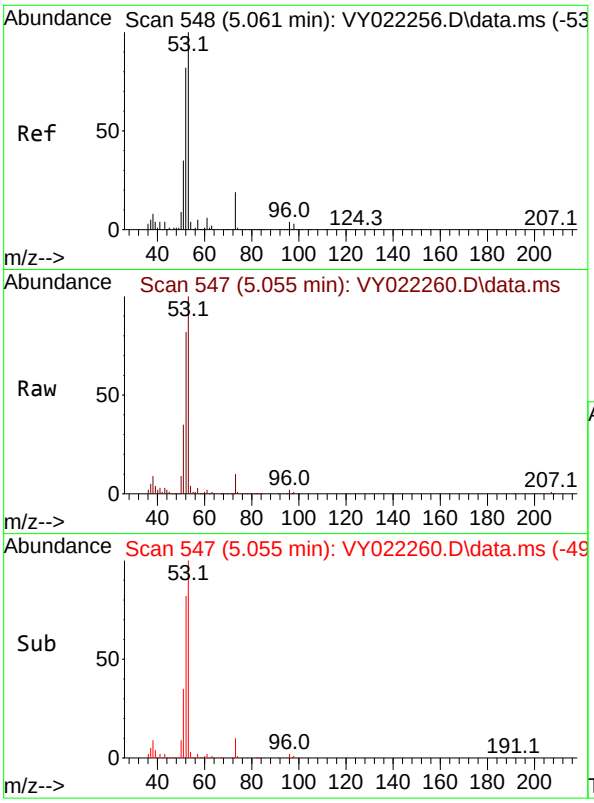


#14
Allyl chloride
Concen: 52.817 ug/l
RT: 4.378 min Scan# 436
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 41 Resp: 250342

Ion	Ratio	Lower	Upper
41	100		
39	78.9	63.4	95.0
76	37.0	29.5	44.3

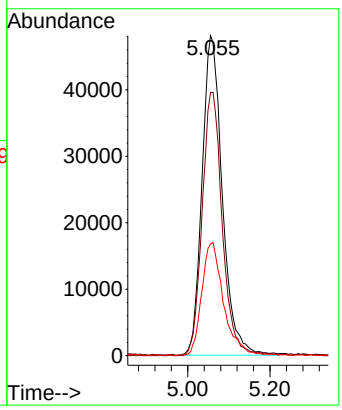




#15
Acrylonitrile
Concen: 265.134 ug/l
RT: 5.055 min Scan# 54
Delta R.T. -0.006 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 53 Resp: 16450

Ion	Ratio	Lower	Upper
53	100		
52	81.9	66.1	99.1
51	38.2	30.0	45.0



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

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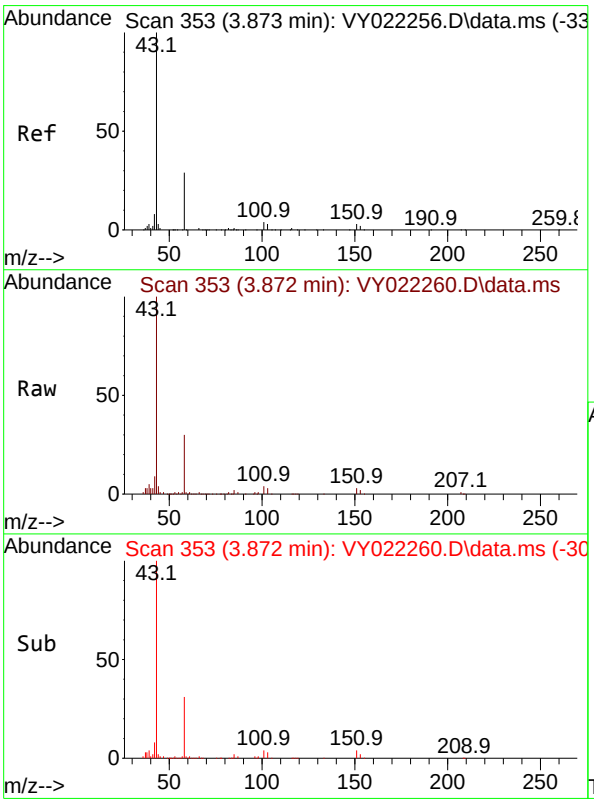
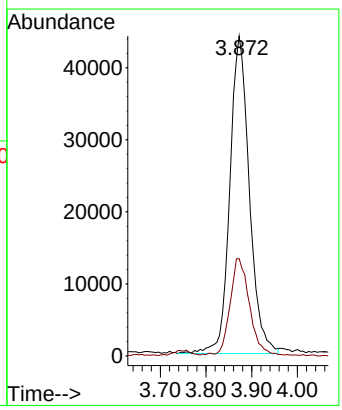
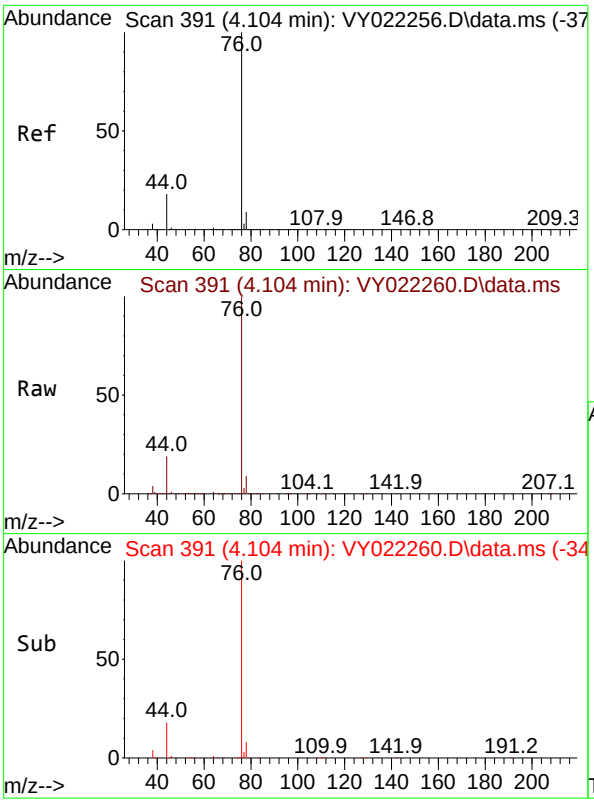


#16
Acetone
Concen: 252.660 ug/l
RT: 3.872 min Scan# 353
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 43 Resp: 130848

Ion	Ratio	Lower	Upper
43	100		
58	30.2	23.6	35.4

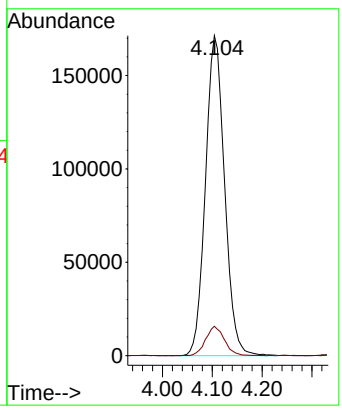




#17
Carbon Disulfide
Concen: 51.765 ug/l
RT: 4.104 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 76 Resp: 45630

Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.2	10.8



Instrument :
MSVOA_Y
ClientSampleId :
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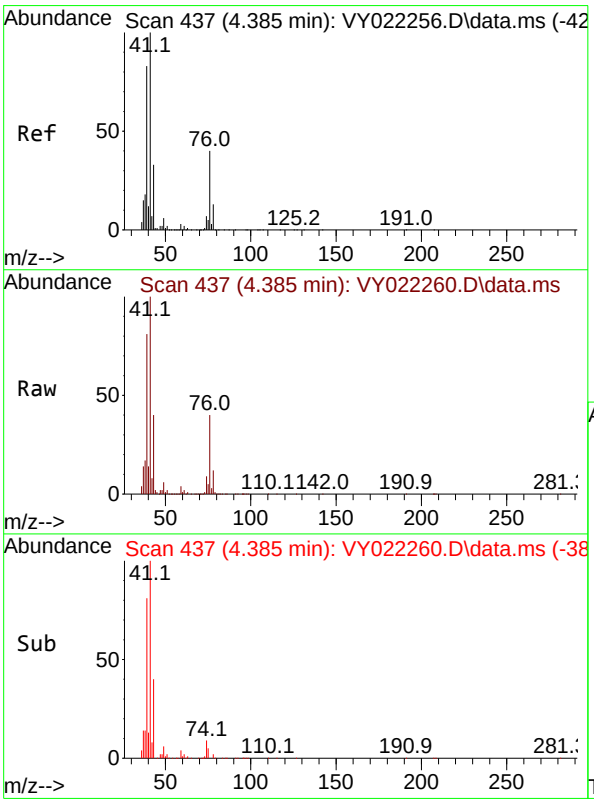
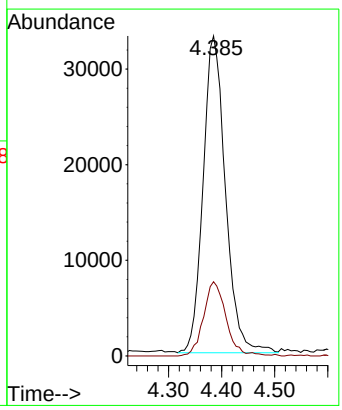
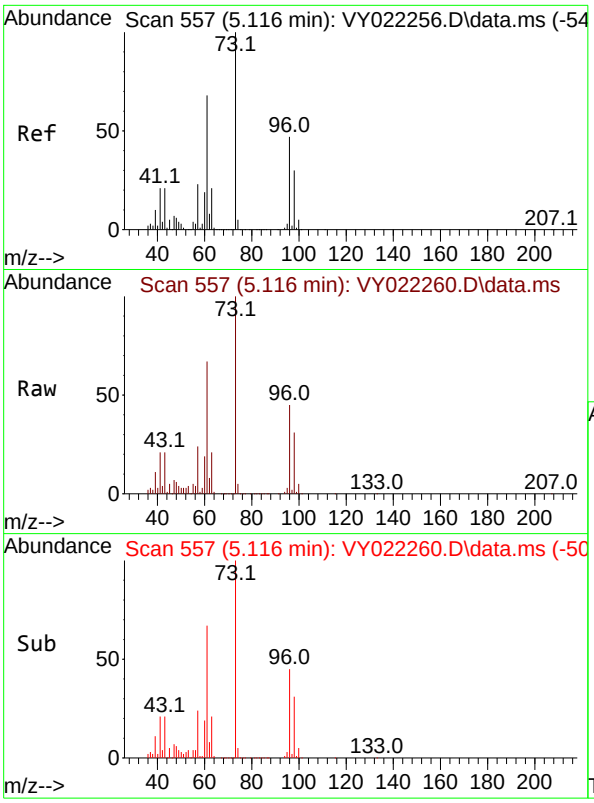


#18
Methyl Acetate
Concen: 59.461 ug/l
RT: 4.385 min Scan# 437
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 43 Resp: 97091

Ion	Ratio	Lower	Upper
43	100		
74	23.6	18.2	27.4

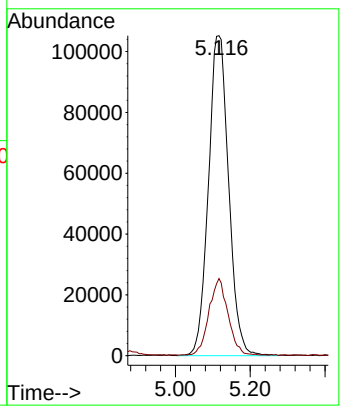




#19
Methyl tert-butyl Ether
Concen: 53.096 ug/l
RT: 5.116 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 73 Resp: 39575

Ion	Ratio	Lower	Upper
73	100		
57	24.0	18.6	28.0



Instrument :
MSVOA_Y
ClientSampleId :
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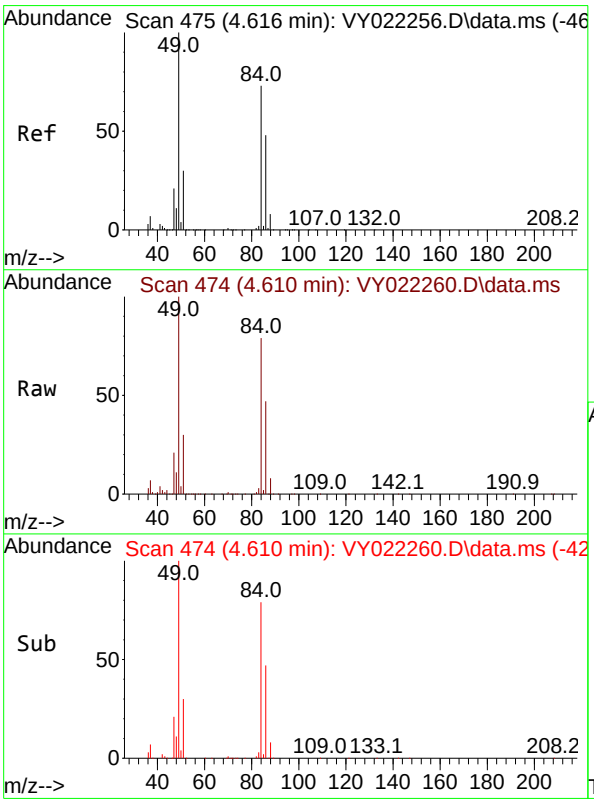
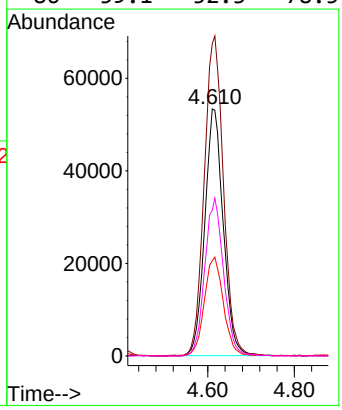
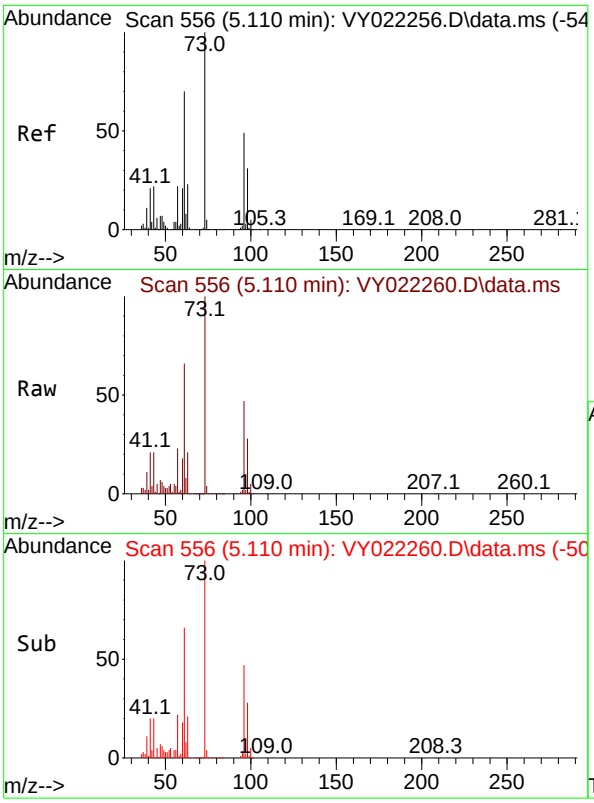


#20
Methylene Chloride
Concen: 47.298 ug/l
RT: 4.610 min Scan# 474
Delta R.T. -0.006 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 84 Resp: 158275

Ion	Ratio	Lower	Upper
84	100		
49	126.6	109.6	164.4
51	38.5	32.4	48.6
86	59.1	52.3	78.5

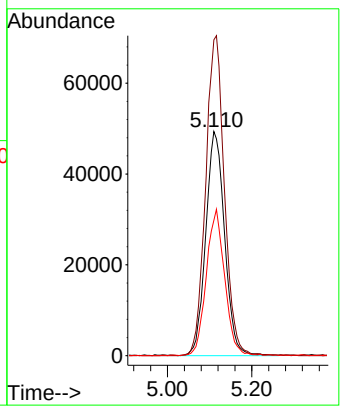




#21
trans-1,2-Dichloroethene
Concen: 51.552 ug/l
RT: 5.110 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 96 Resp: 15381

Ion	Ratio	Lower	Upper
96	100		
61	140.9	113.4	170.0
98	60.2	50.9	76.3



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

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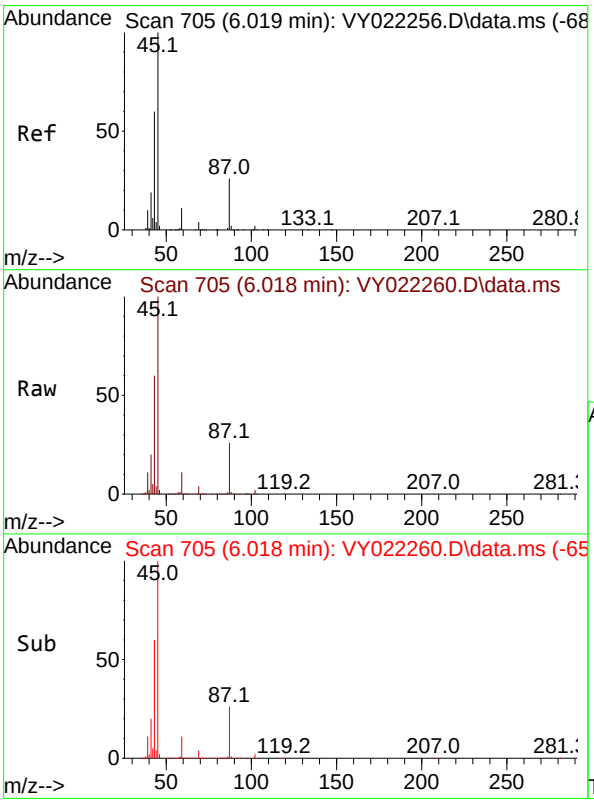
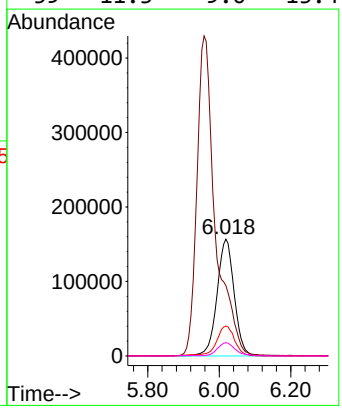
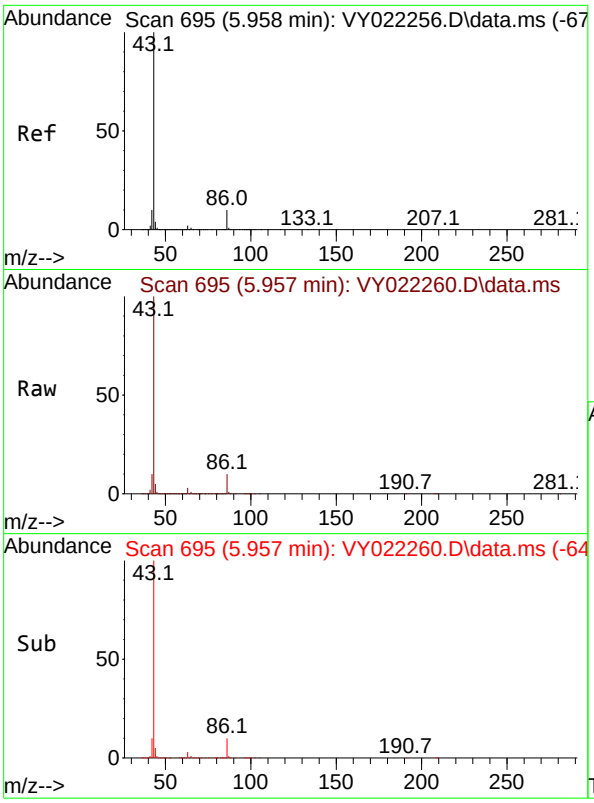


#22
Diisopropyl ether
Concen: 52.085 ug/l
RT: 6.018 min Scan# 705
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 45 Resp: 521343

Ion	Ratio	Lower	Upper
45	100		
43	59.9	48.2	72.2
87	25.6	21.4	32.0
59	11.3	9.0	13.4

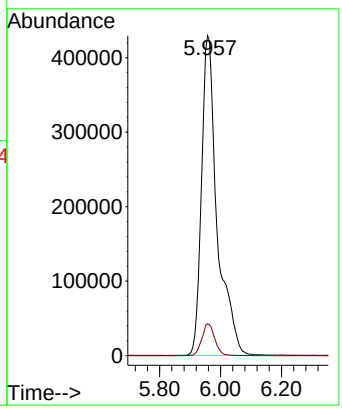




#23
Vinyl Acetate
Concen: 253.098 ug/l
RT: 5.957 min Scan# 6
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 43 Resp: 153050

Ion	Ratio	Lower	Upper
43	100		
86	10.0	7.8	11.8



Instrument :
MSVOA_Y
ClientSampleId :
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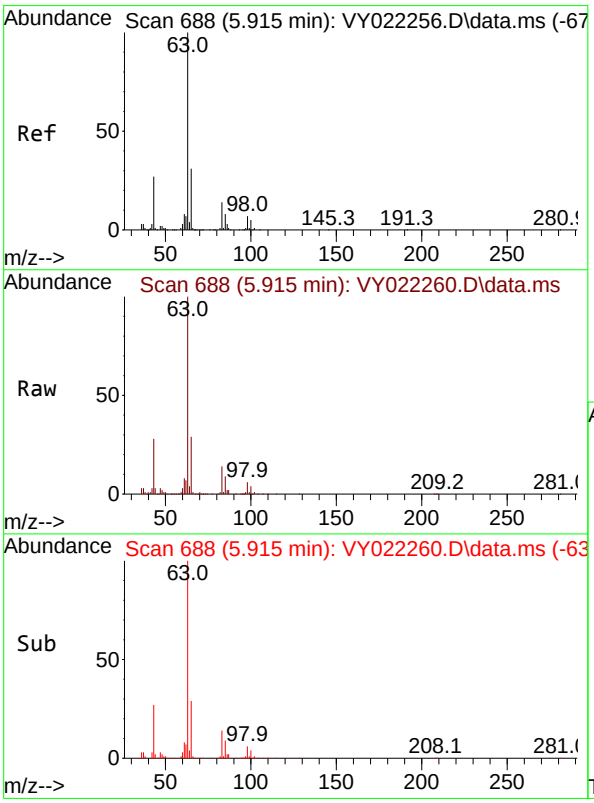
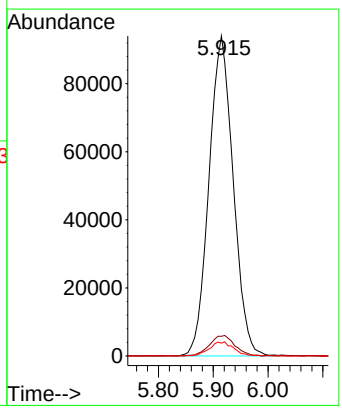
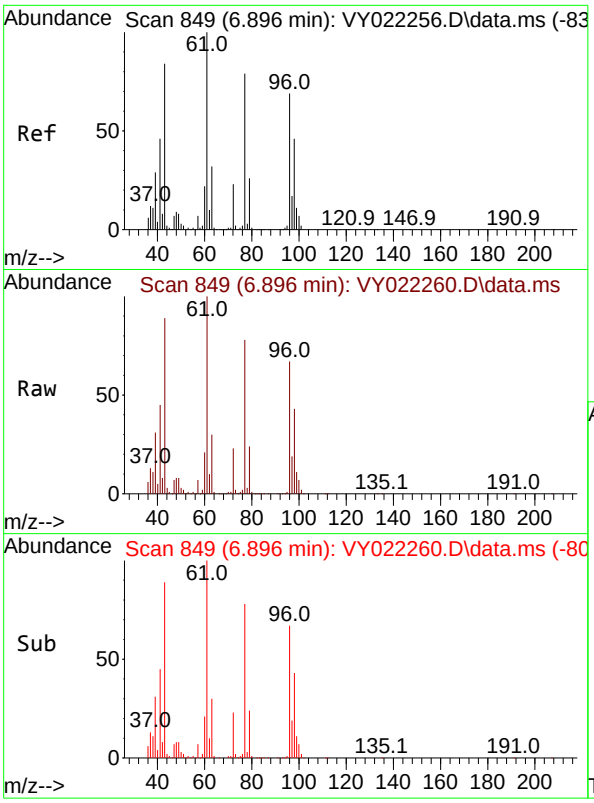


#24
1,1-Dichloroethane
Concen: 51.668 ug/l
RT: 5.915 min Scan# 688
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 63 Resp: 288933

Ion	Ratio	Lower	Upper
63	100		
98	6.1	3.5	10.5
100	4.0	2.4	7.2





#25
2-Butanone
Concen: 255.929 ug/l
RT: 6.896 min Scan# 84
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 43 Resp: 22170

Ion	Ratio	Lower	Upper
43	100		
72	25.9	22.1	33.1

Instrument :
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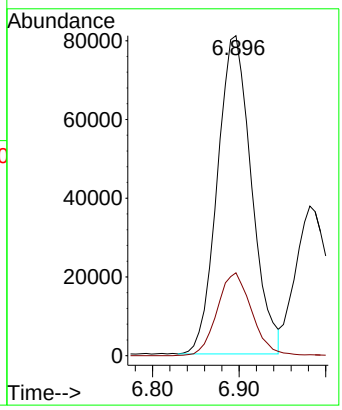
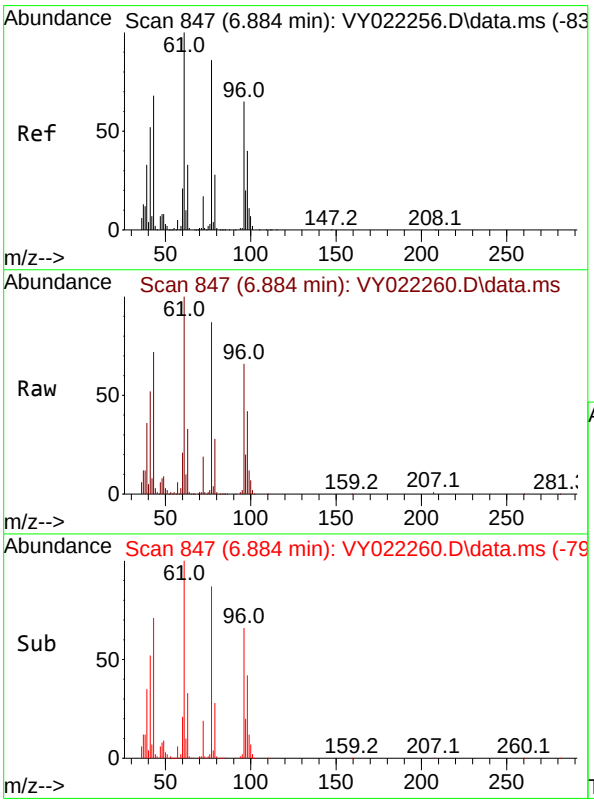
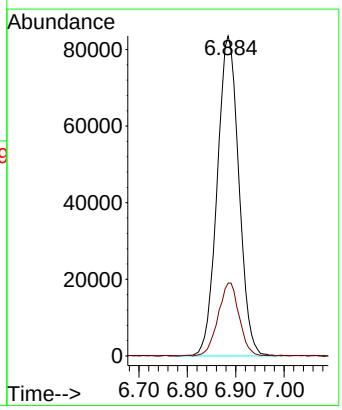


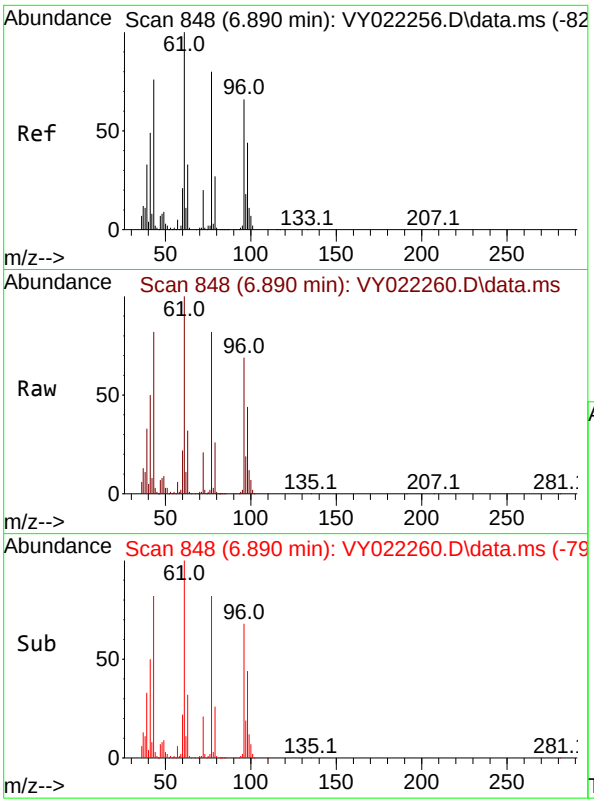


#26
2,2-Dichloropropane
Concen: 52.191 ug/l
RT: 6.884 min Scan# 847
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 77 Resp: 259587

Ion	Ratio	Lower	Upper
77	100		
97	22.3	11.2	33.5

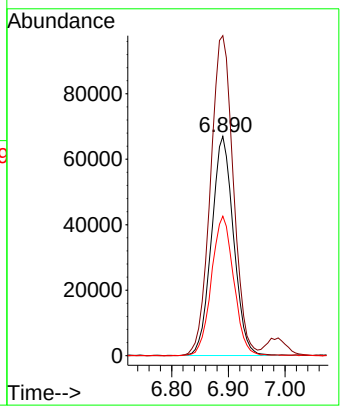




#27
cis-1,2-Dichloroethene
Concen: 52.479 ug/l
RT: 6.890 min Scan# 84
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 96 Resp: 18069

Ion	Ratio	Lower	Upper
96	100		
61	151.9	0.0	302.6
98	64.5	0.0	128.8



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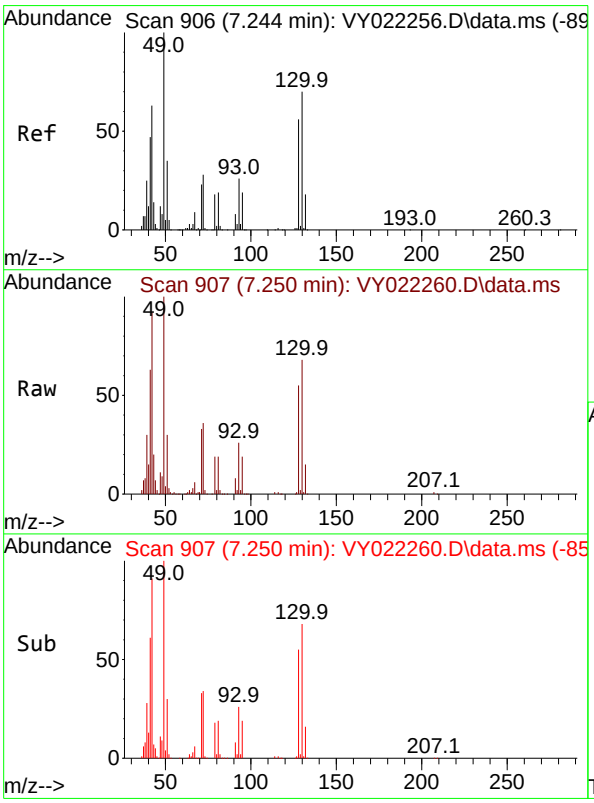
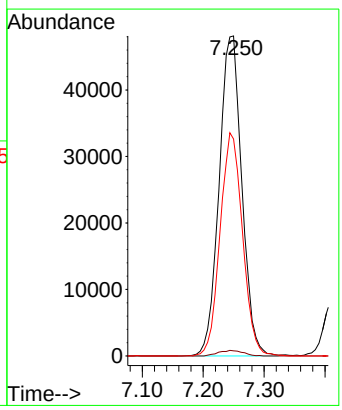
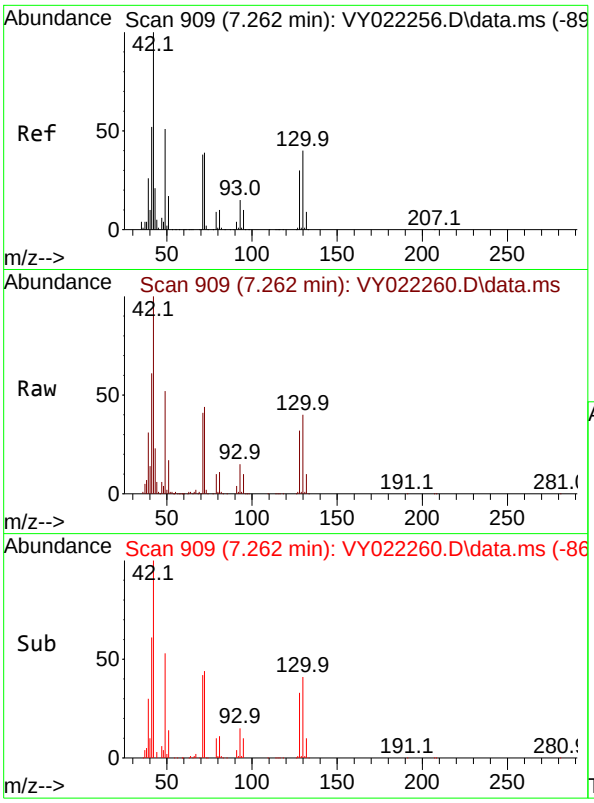


#28
Bromochloromethane
Concen: 52.305 ug/l
RT: 7.250 min Scan# 907
Delta R.T. 0.006 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 49 Resp: 124761

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	3.6
130	68.8	54.7	82.1

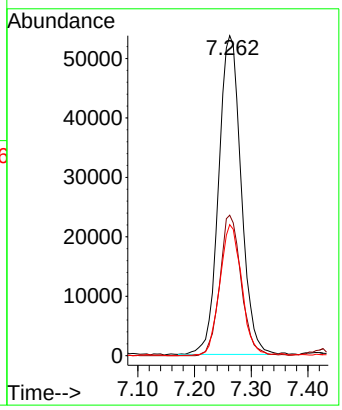




#29
Tetrahydrofuran
Concen: 264.847 ug/l
RT: 7.262 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 42 Resp: 14760

Ion	Ratio	Lower	Upper
42	100		
72	42.1	33.8	50.6
71	40.1	31.5	47.3



Instrument :
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ClientSampleId :
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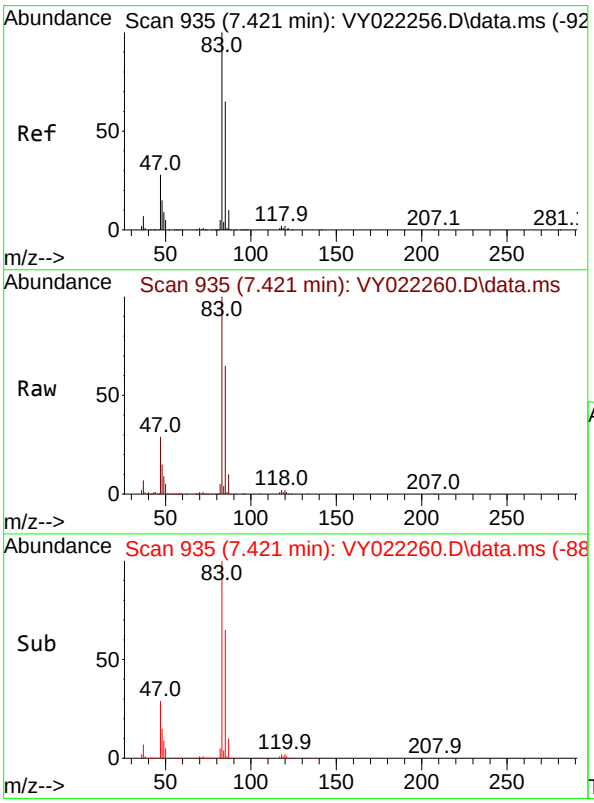
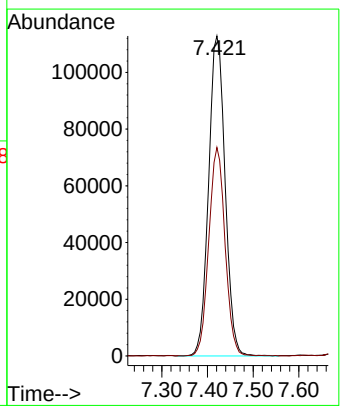
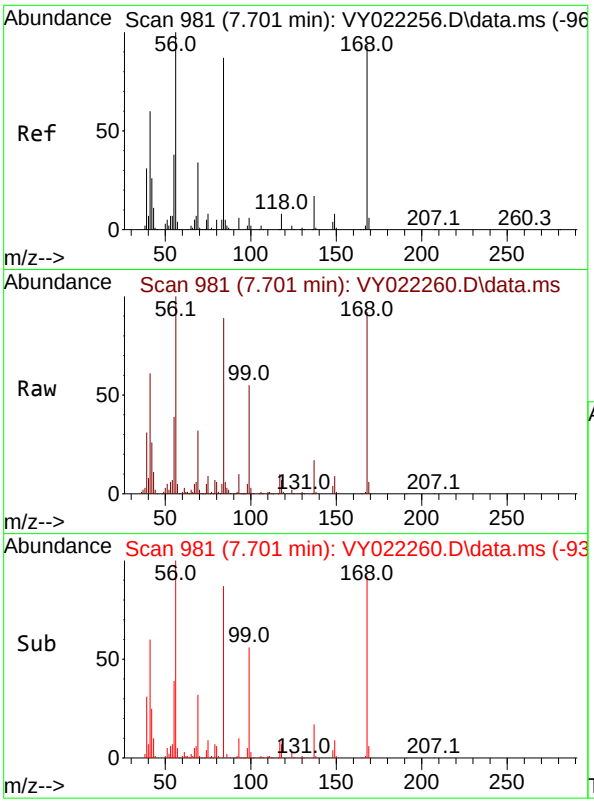


#30
Chloroform
Concen: 52.810 ug/l
RT: 7.421 min Scan# 935
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 83 Resp: 283264

Ion	Ratio	Lower	Upper
83	100		
85	65.1	51.8	77.8

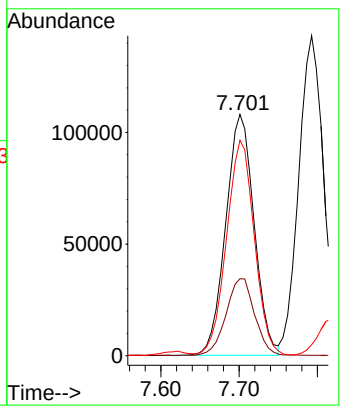




#31
Cyclohexane
Concen: 48.673 ug/l
RT: 7.701 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 56 Resp: 27194

Ion	Ratio	Lower	Upper
56	100		
69	31.8	27.4	41.2
84	87.5	70.0	105.0



Instrument :
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ClientSampleId :
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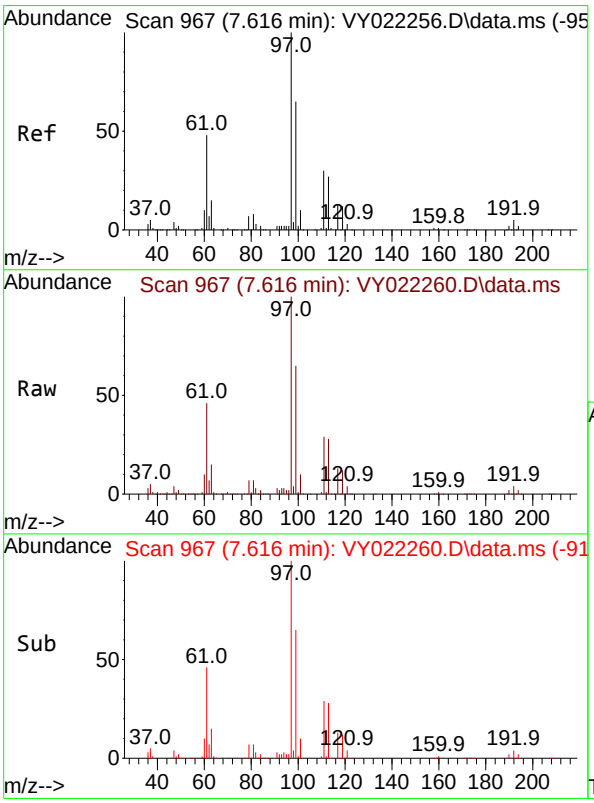
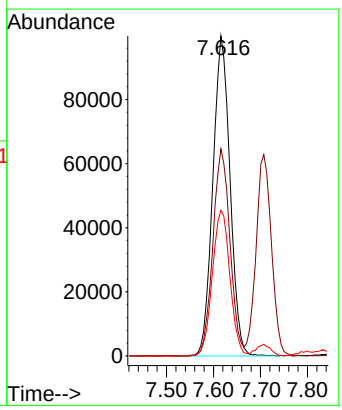
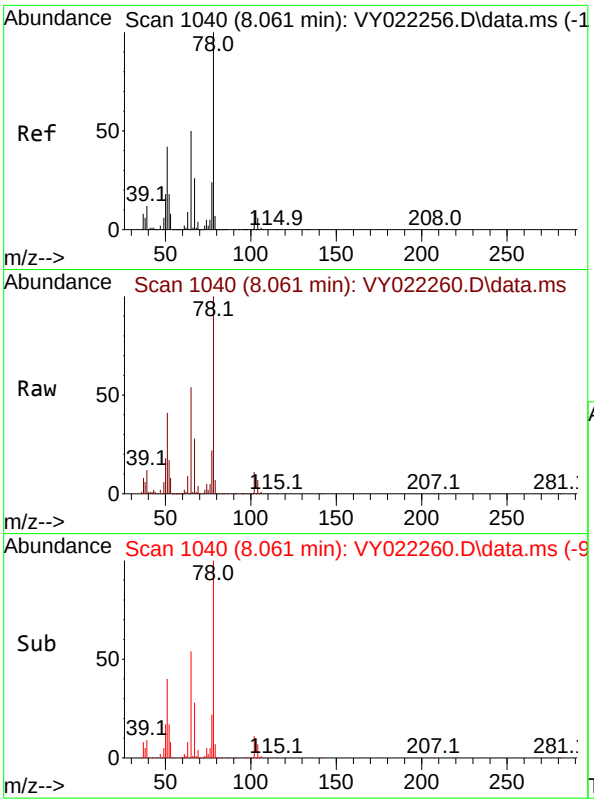


#32
1,1,1-Trichloroethane
Concen: 51.523 ug/l
RT: 7.616 min Scan# 967
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 97 Resp: 253549

Ion	Ratio	Lower	Upper
97	100		
99	64.3	51.4	77.0
61	46.6	38.1	57.1

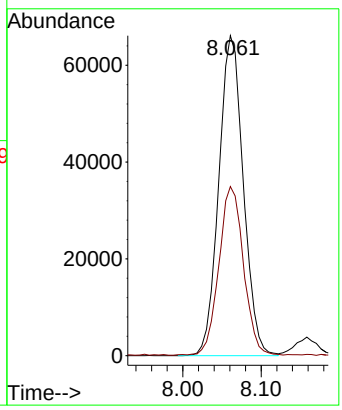




#33
1,2-Dichloroethane-d4
Concen: 52.104 ug/l
RT: 8.061 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 65 Resp: 14390

Ion	Ratio	Lower	Upper
65	100		
67	52.8	0.0	104.6



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

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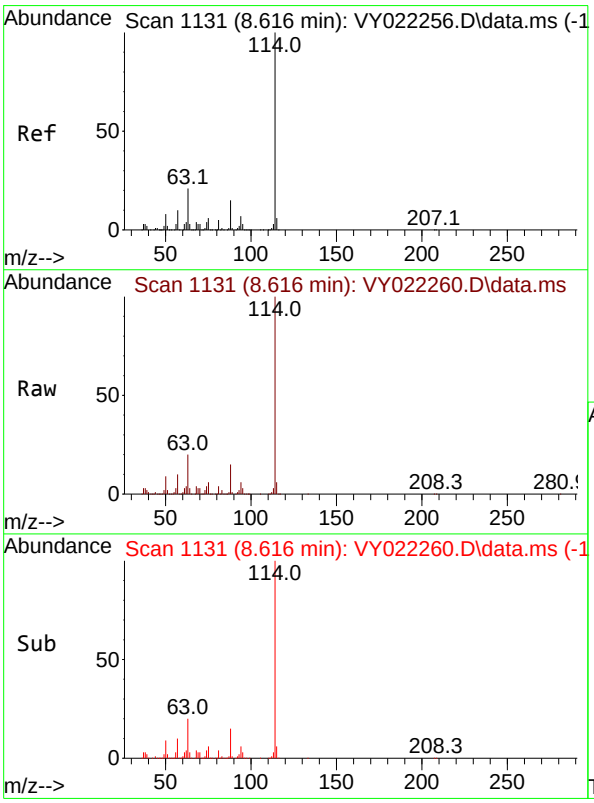
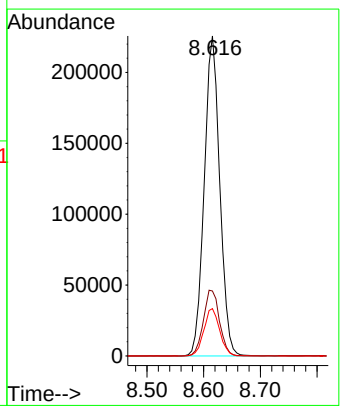
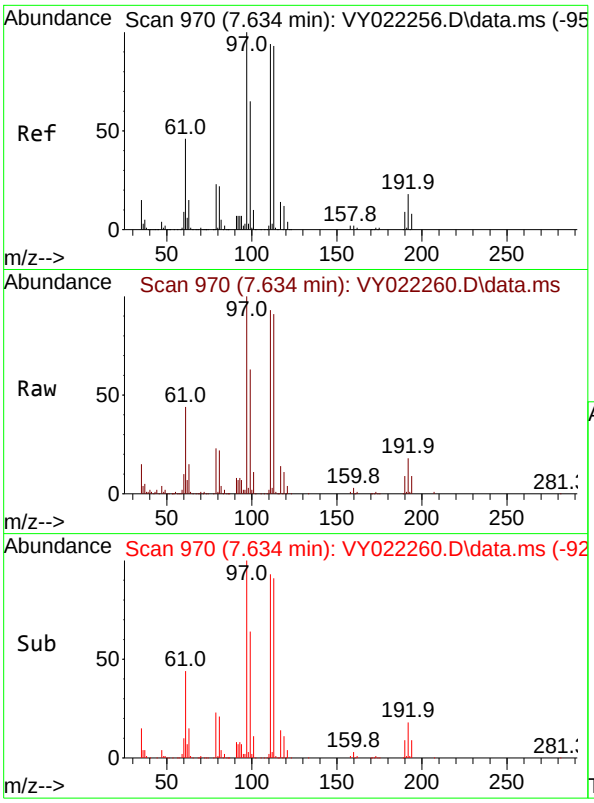


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion:114 Resp: 428969

Ion	Ratio	Lower	Upper
114	100		
63	20.3	0.0	41.0
88	14.8	0.0	29.4

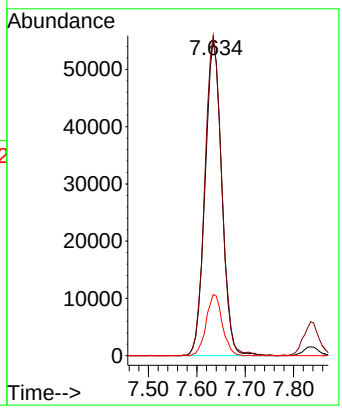




#35
Dibromofluoromethane
Concen: 51.658 ug/l
RT: 7.634 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion:113 Resp: 13226

Ion	Ratio	Lower	Upper
113	100		
111	102.1	82.6	123.8
192	18.7	15.2	22.8



Instrument :
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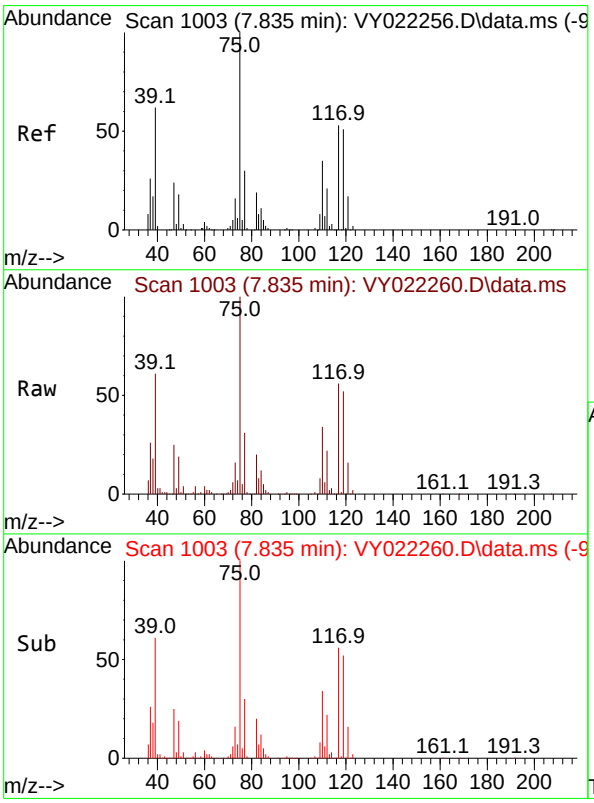
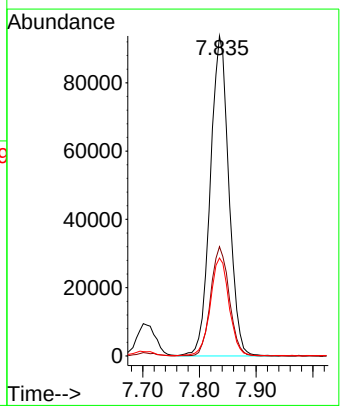
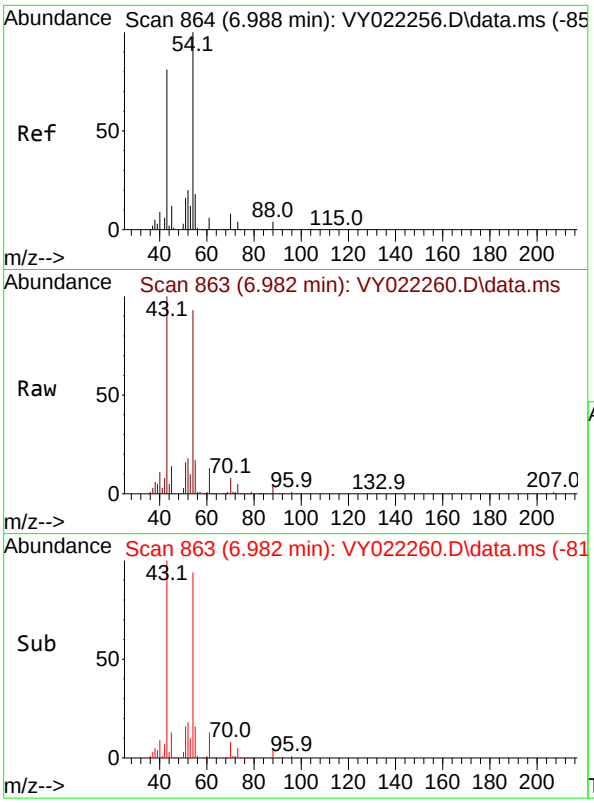


#36
1,1-Dichloropropene
Concen: 50.457 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 75 Resp: 212786

Ion	Ratio	Lower	Upper
75	100		
110	34.0	16.6	49.8
77	30.7	24.6	37.0





#37
Ethyl Acetate
Concen: 50.633 ug/l
RT: 6.982 min Scan# 8
Delta R.T. -0.006 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 43 Resp: 10274

Ion	Ratio	Lower	Upper
43	100		
61	13.9	10.2	15.2
70	8.8	7.6	11.4

Instrument :
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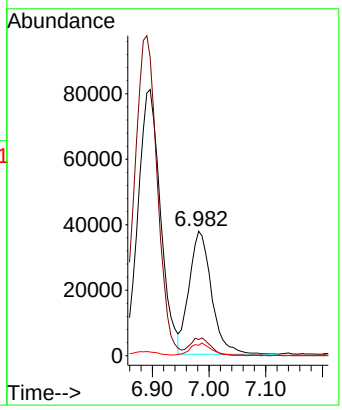
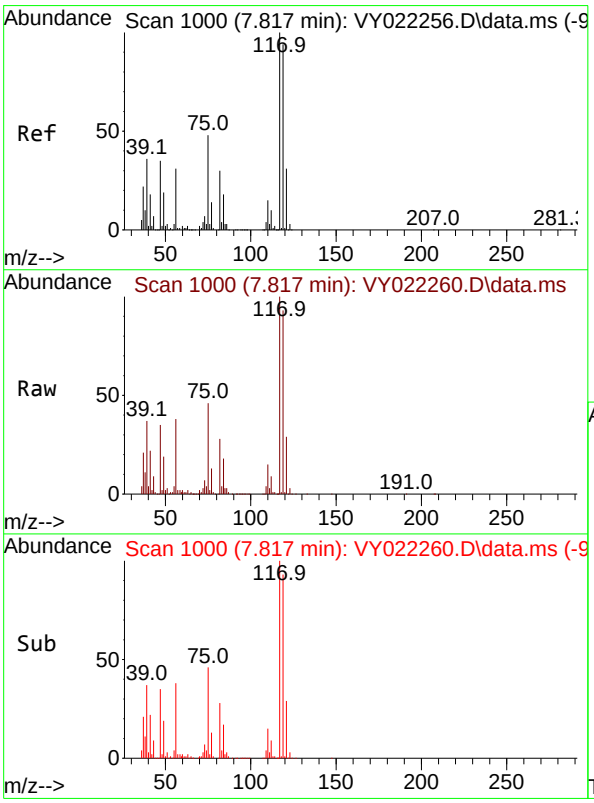
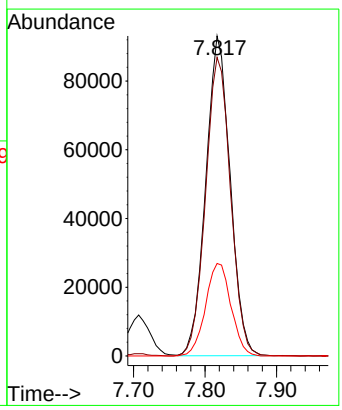


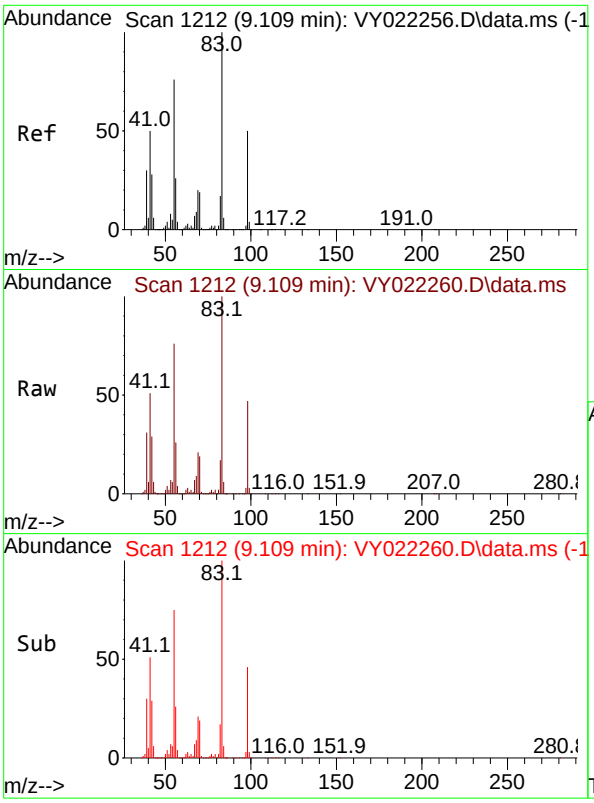


#38
Carbon Tetrachloride
Concen: 50.543 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion:117 Resp: 220636

Ion	Ratio	Lower	Upper
117	100		
119	93.3	75.3	112.9
121	28.9	24.7	37.1

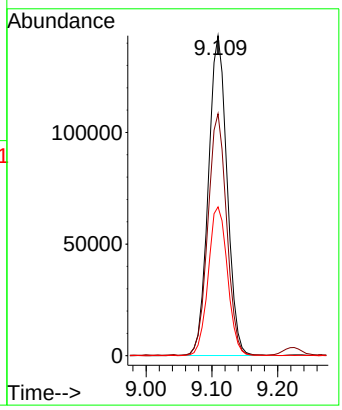




#39
Methylcyclohexane
Concen: 50.015 ug/l
RT: 9.109 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 83 Resp: 28337

Ion	Ratio	Lower	Upper
83	100		
55	75.5	60.6	90.8
98	46.5	40.0	60.0



Instrument :
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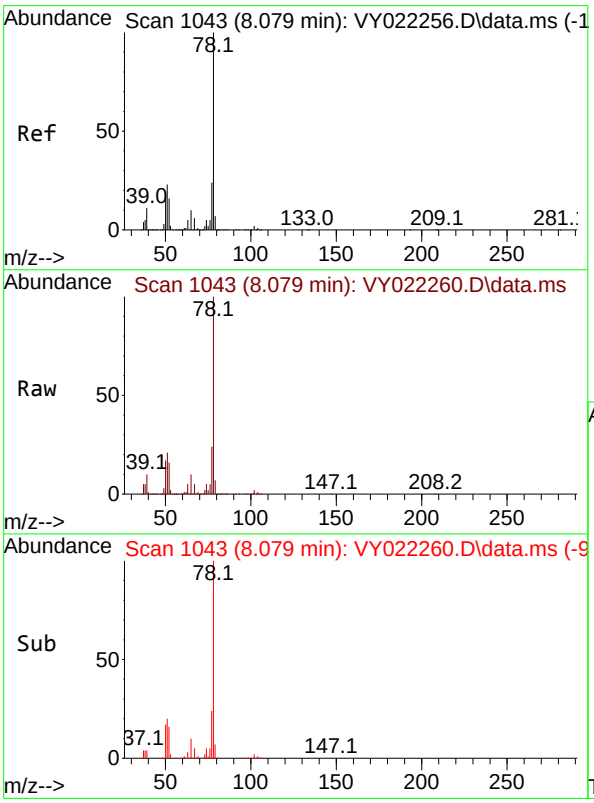
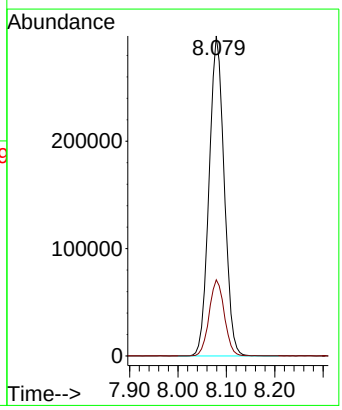
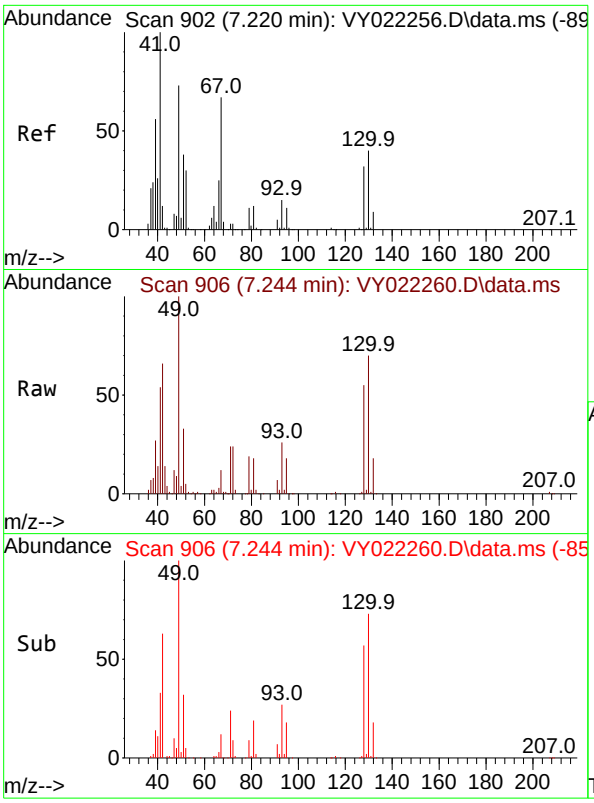


#40
Benzene
Concen: 51.696 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 78 Resp: 646289

Ion	Ratio	Lower	Upper
78	100		
77	23.8	18.9	28.3

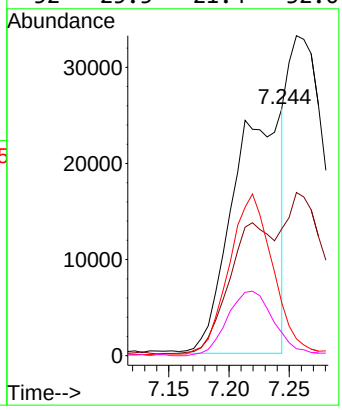




#41
Methacrylonitrile
Concen: 53.599 ug/l m
RT: 7.244 min Scan# 9
Delta R.T. 0.024 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 41 Resp: 7214

Ion	Ratio	Lower	Upper
41	100		
39	48.1	39.1	58.7
67	58.4	47.1	70.7
52	25.5	21.4	32.0



Instrument :
MSVOA_Y
ClientSampleId :
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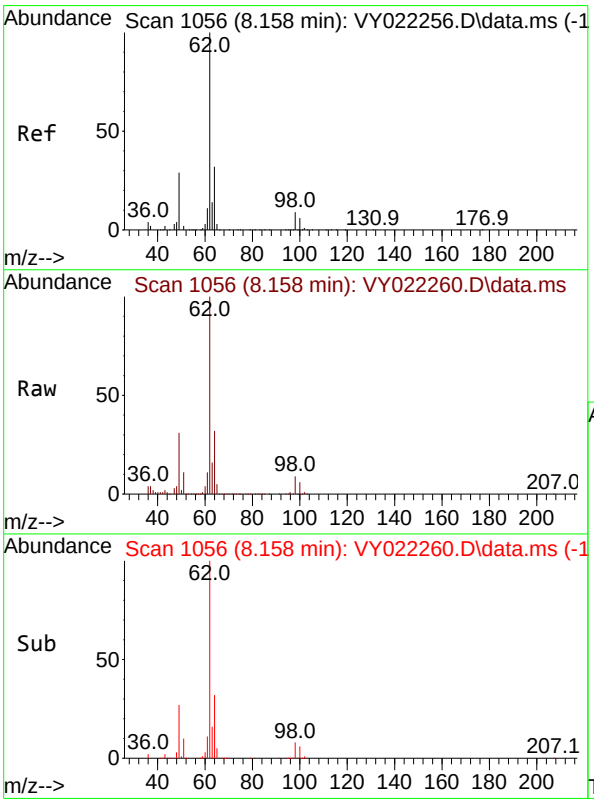
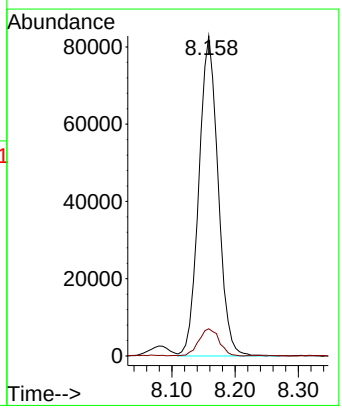
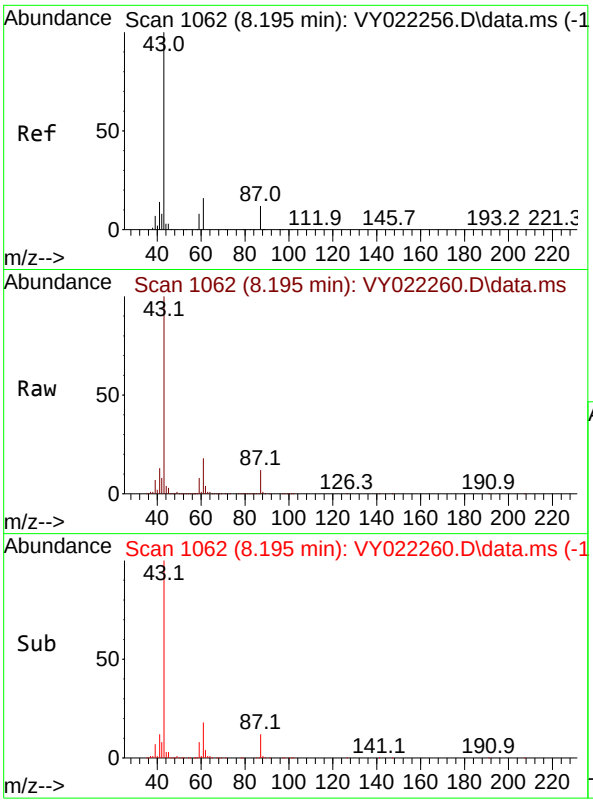


#42
1,2-Dichloroethane
Concen: 51.834 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 62 Resp: 175241

Ion	Ratio	Lower	Upper
62	100		
98	9.1	0.0	18.4





#43
Isopropyl Acetate
Concen: 51.415 ug/l
RT: 8.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 43 Resp: 22752

Ion	Ratio	Lower	Upper
43	100		
61	26.5	15.1	22.7#
87	11.9	9.7	14.5

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

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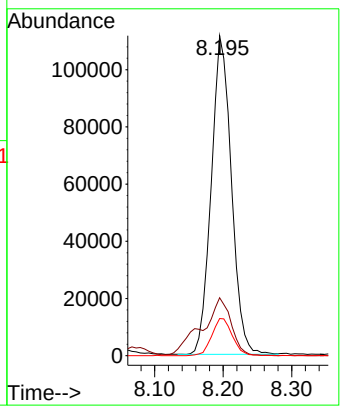
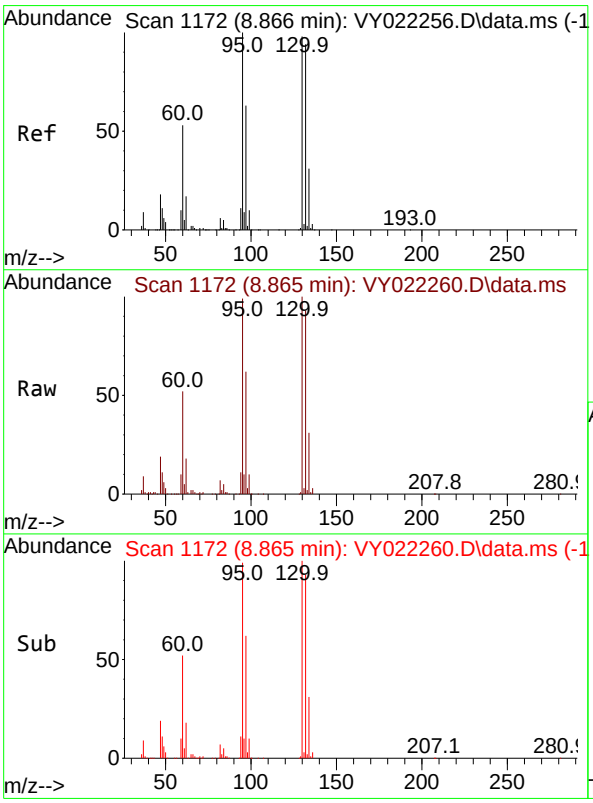
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

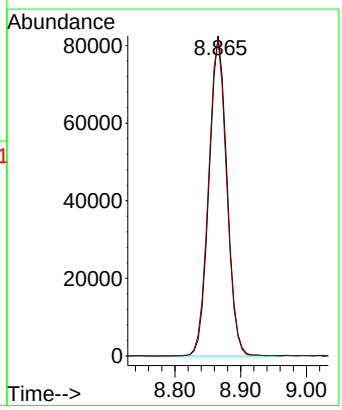


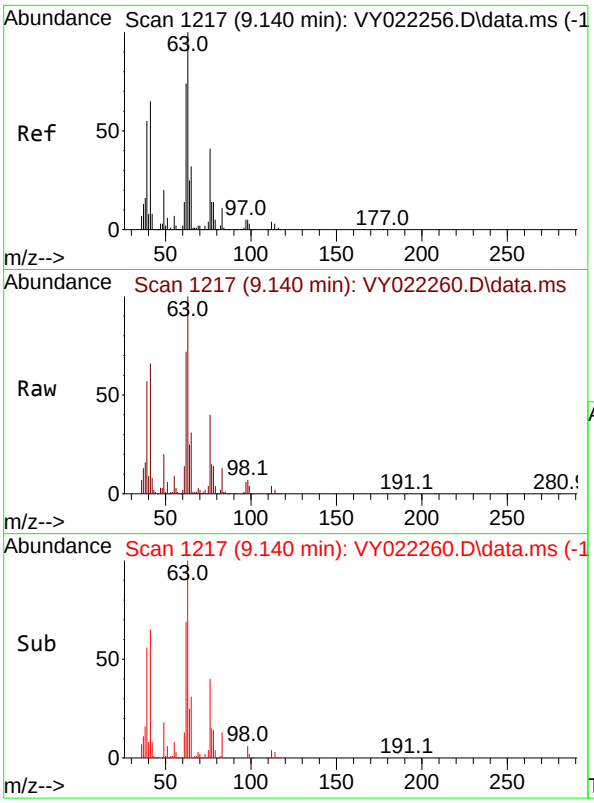


#44
Trichloroethene
Concen: 50.335 ug/l
RT: 8.865 min Scan# 1172
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion:130 Resp: 156468

Ion	Ratio	Lower	Upper
130	100		
95	98.6	0.0	204.8

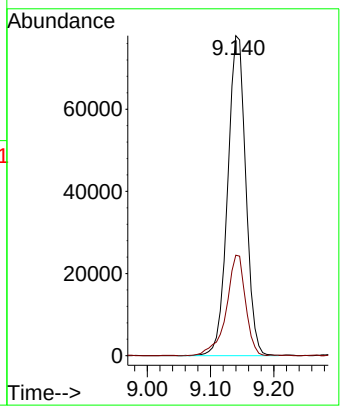




#45
1,2-Dichloropropane
Concen: 51.417 ug/l
RT: 9.140 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 63 Resp: 15497

Ion	Ratio	Lower	Upper
63	100		
65	31.4	25.7	38.5



Instrument :
MSVOA_Y
ClientSampleId :
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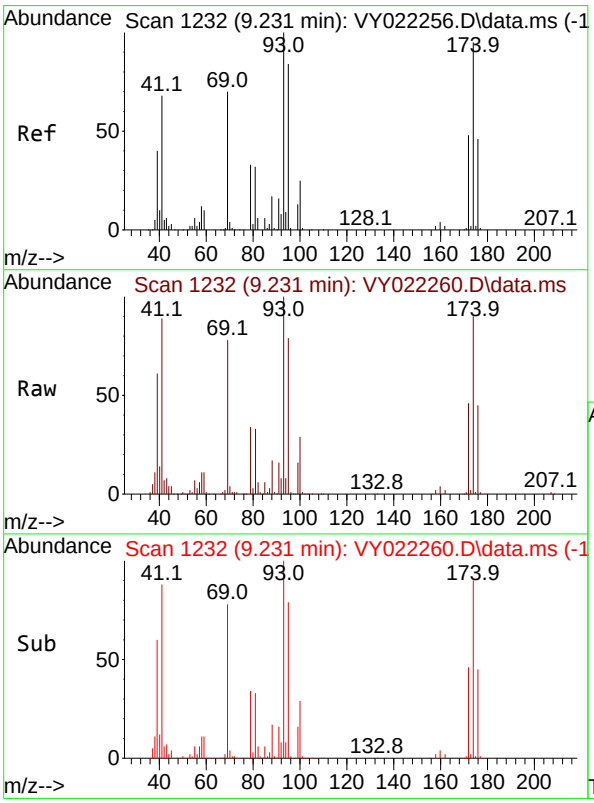
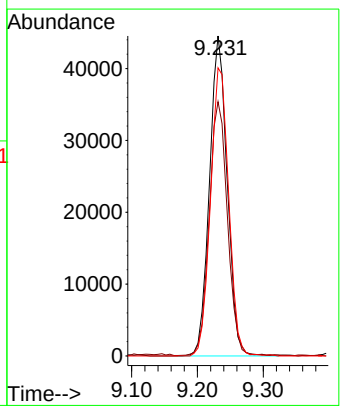
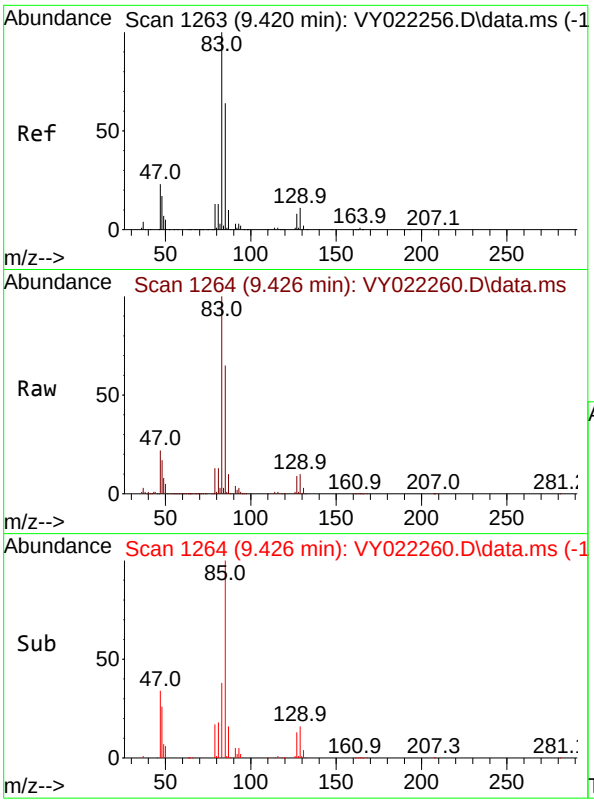


#46
Dibromomethane
Concen: 51.423 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 93 Resp: 83597

Ion	Ratio	Lower	Upper
93	100		
95	81.4	65.2	97.8
174	92.4	74.3	111.5

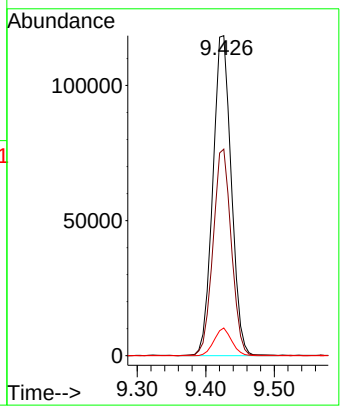




#47
Bromodichloromethane
Concen: 52.508 ug/l
RT: 9.426 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 83 Resp: 22144

Ion	Ratio	Lower	Upper
83	100		
85	64.5	51.1	76.7
127	8.6	6.6	10.0



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

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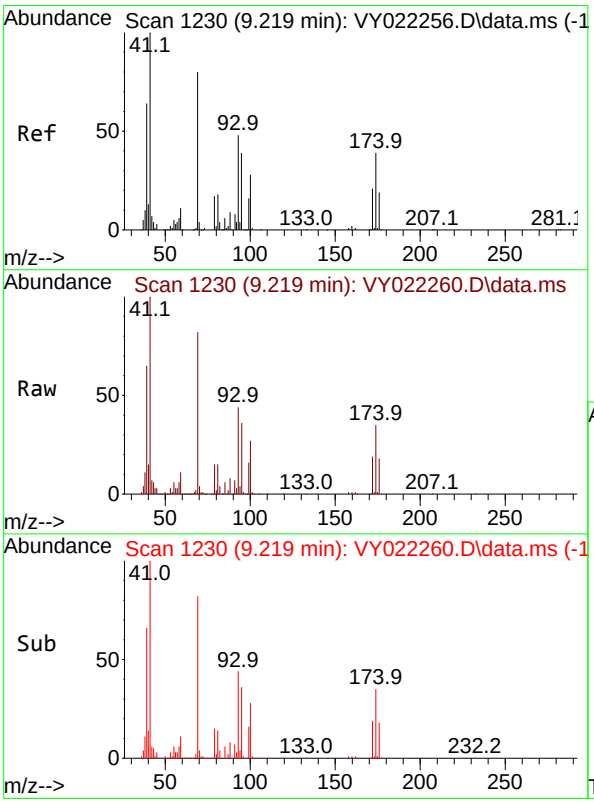
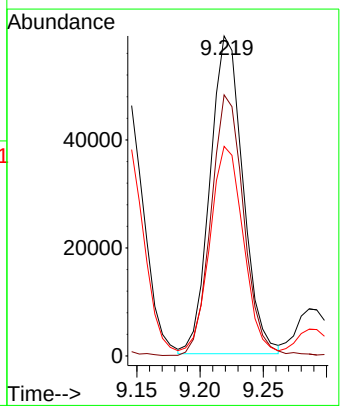
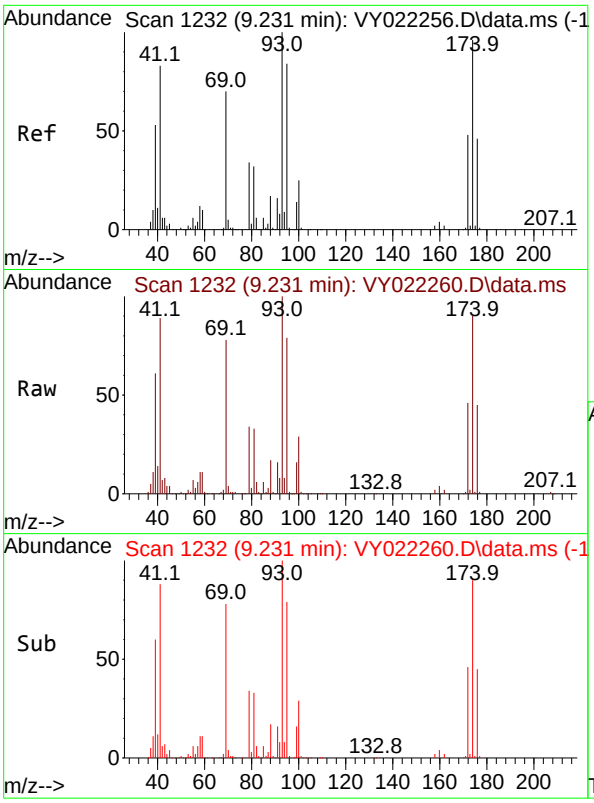


#48
Methyl methacrylate
Concen: 51.357 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 41 Resp: 106283

Ion	Ratio	Lower	Upper
41	100		
69	81.5	63.5	95.3
39	64.6	50.8	76.2

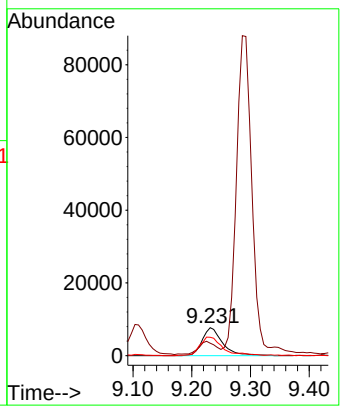




#49
1,4-Dioxane
Concen: 1008.479 ug/l
RT: 9.231 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 88 Resp: 1852

Ion	Ratio	Lower	Upper
88	100		
43	40.7	28.5	42.7
58	74.5	61.4	92.2



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

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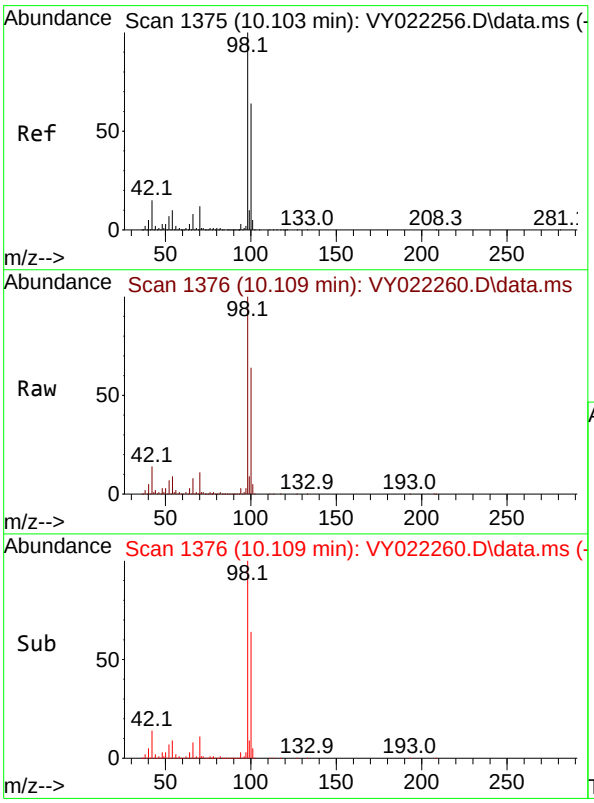
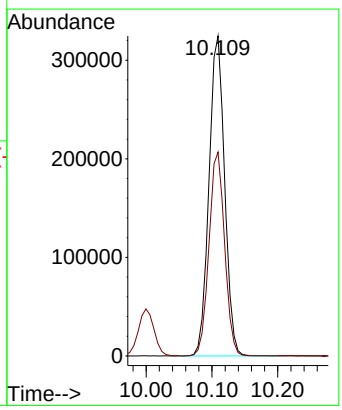
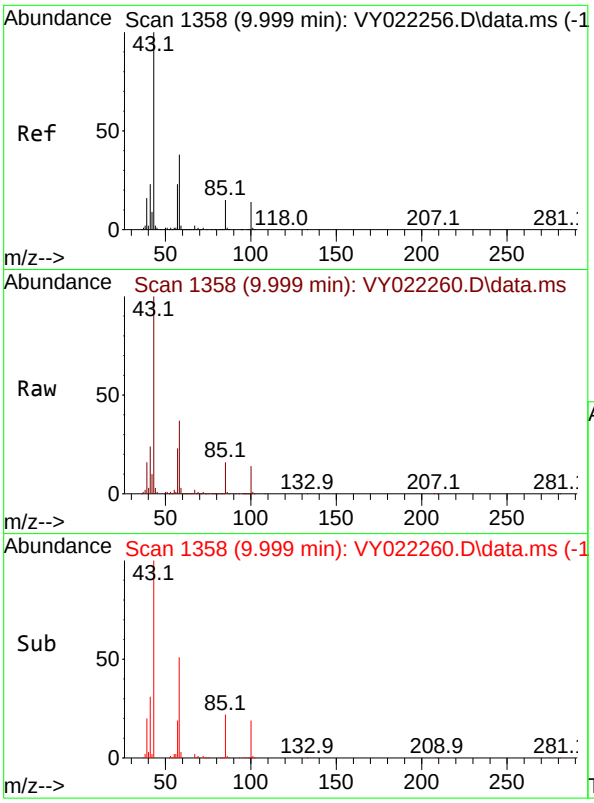


#50
Toluene-d8
Concen: 51.229 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 98 Resp: 537188

Ion	Ratio	Lower	Upper
98	100		
100	63.6	51.8	77.8

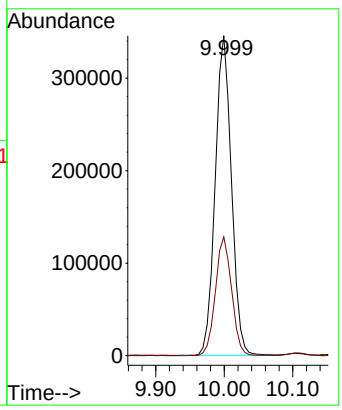




#51
4-Methyl-2-Pentanone
Concen: 261.463 ug/l
RT: 9.999 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 43 Resp: 56772

Ion	Ratio	Lower	Upper
43	100		
58	37.1	29.4	44.2



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

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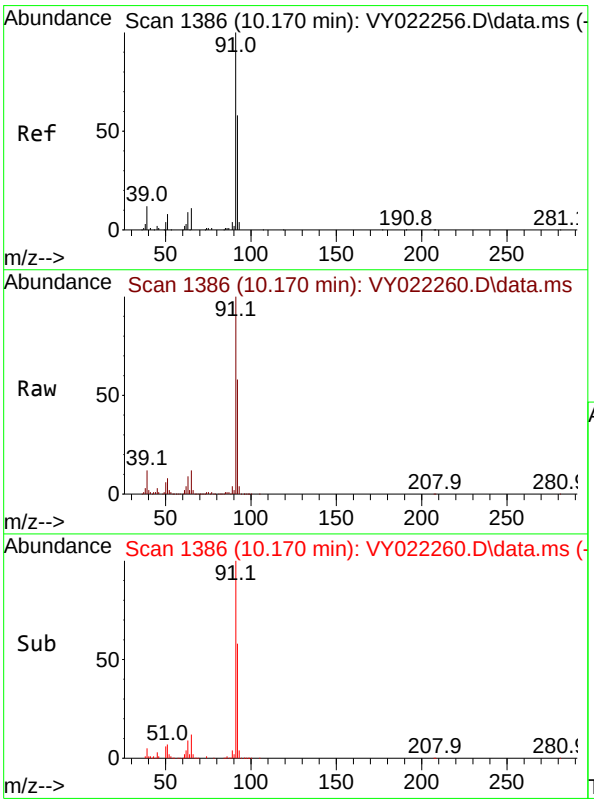
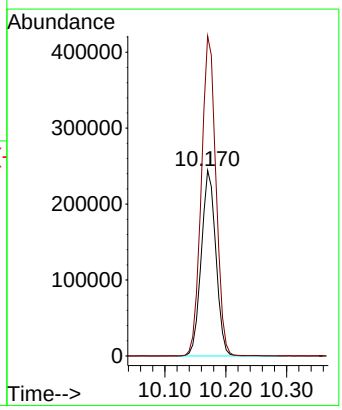
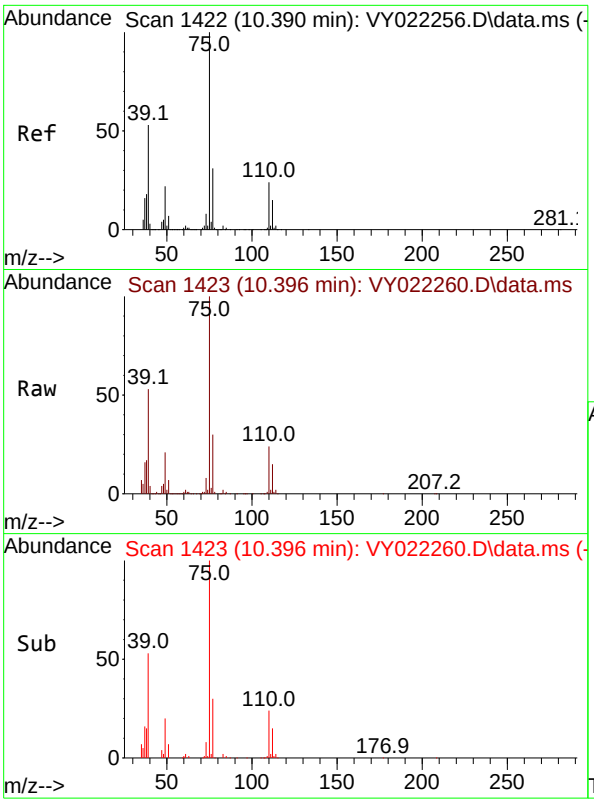


#52
Toluene
Concen: 51.337 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 92 Resp: 406420

Ion	Ratio	Lower	Upper
92	100		
91	173.0	139.1	208.7

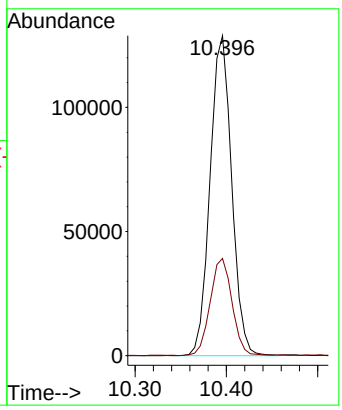




#53
t-1,3-Dichloropropene
Concen: 51.458 ug/l
RT: 10.396 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 75 Resp: 21179

Ion	Ratio	Lower	Upper
75	100		
77	30.4	25.0	37.6



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

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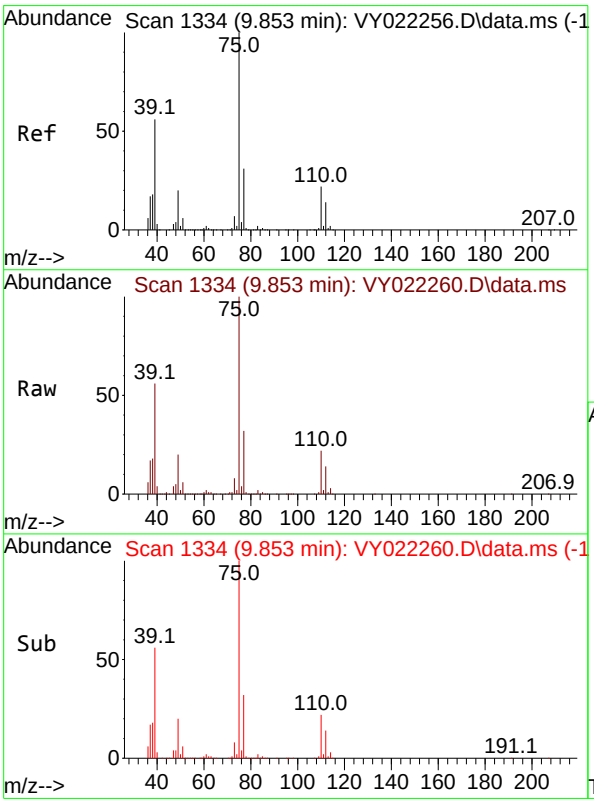
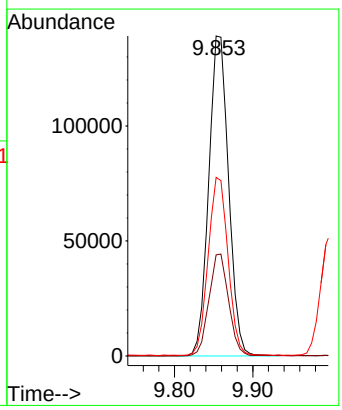
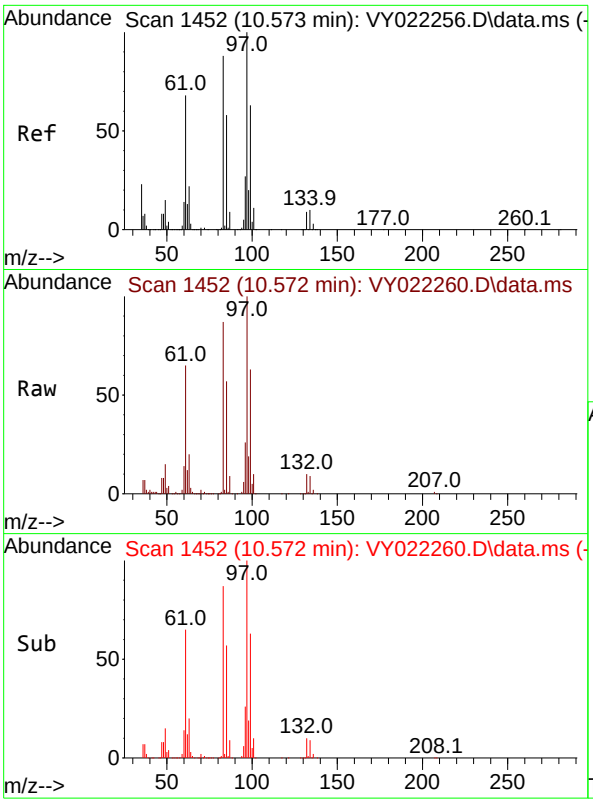


#54
cis-1,3-Dichloropropene
Concen: 51.916 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 75 Resp: 244811

Ion	Ratio	Lower	Upper
75	100		
77	31.5	25.1	37.7
39	55.6	44.5	66.7

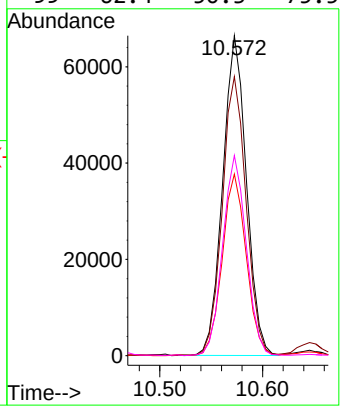




#55
1,1,2-Trichloroethane
Concen: 51.142 ug/l
RT: 10.572 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 97 Resp: 10646

Ion	Ratio	Lower	Upper
97	100		
83	87.0	70.3	105.5
85	56.6	46.2	69.4
99	62.4	50.3	75.5



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

Manual Integrations
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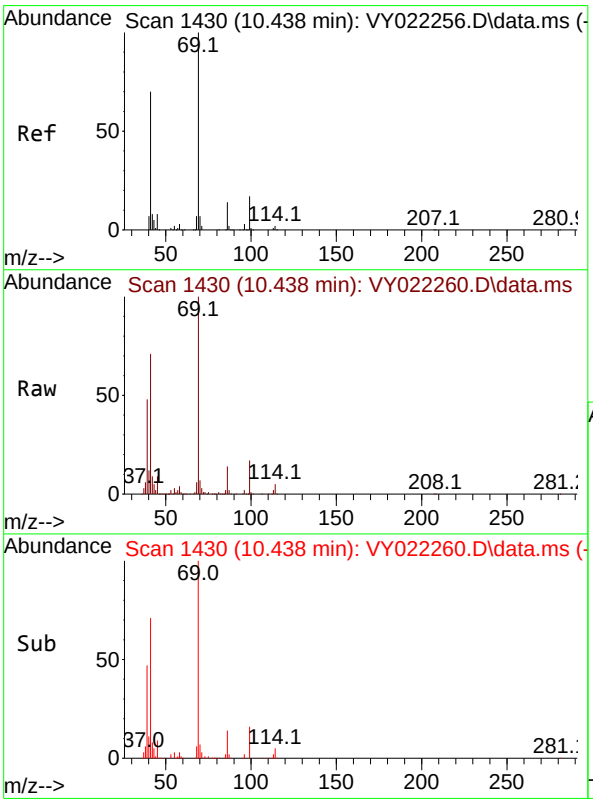
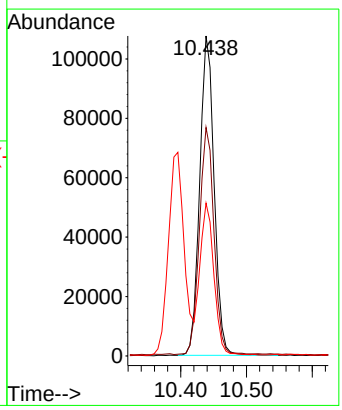
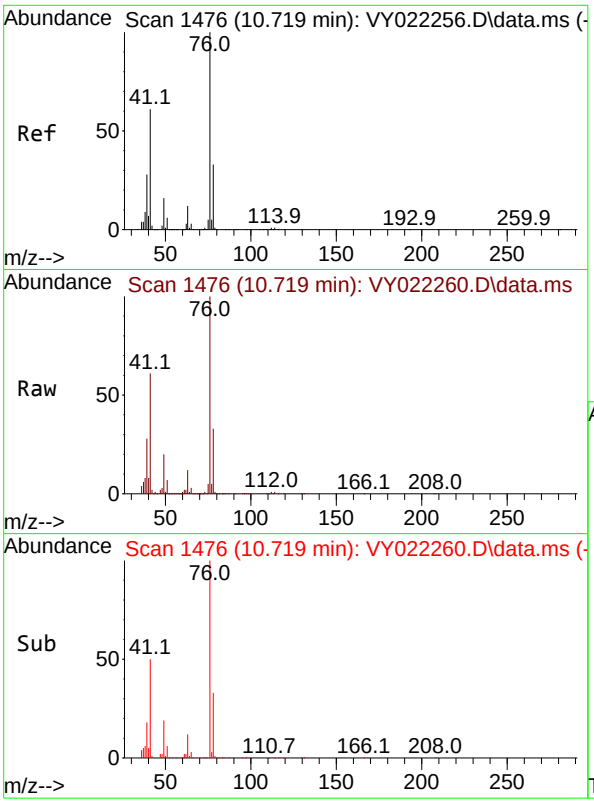


#56
Ethyl methacrylate
Concen: 50.639 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 69 Resp: 164207

Ion	Ratio	Lower	Upper
69	100		
41	71.9	56.5	84.7
39	45.6	37.1	55.7

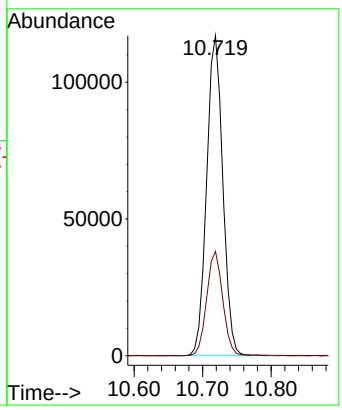




#57
1,3-Dichloropropane
Concen: 51.880 ug/l
RT: 10.719 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 76 Resp: 19188

Ion	Ratio	Lower	Upper
76	100		
78	32.4	25.8	38.8



Instrument :
MSVOA_Y
ClientSampleId :
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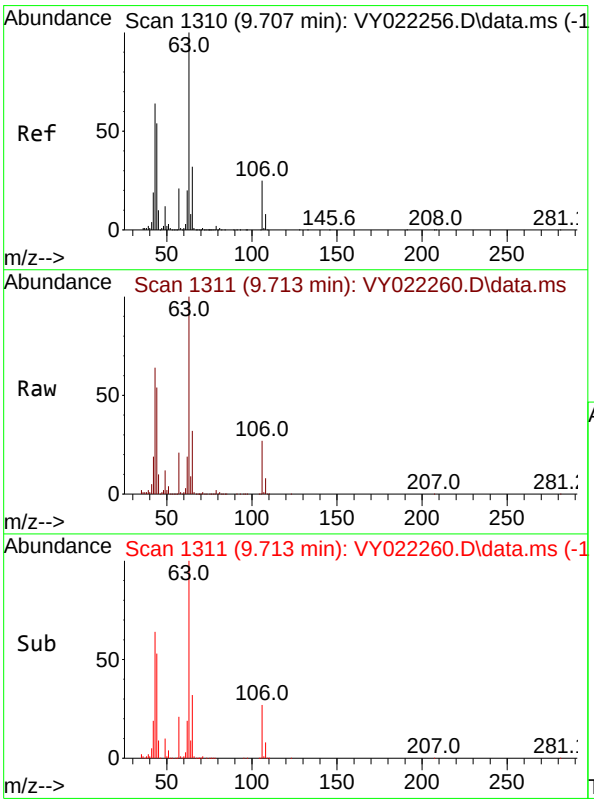
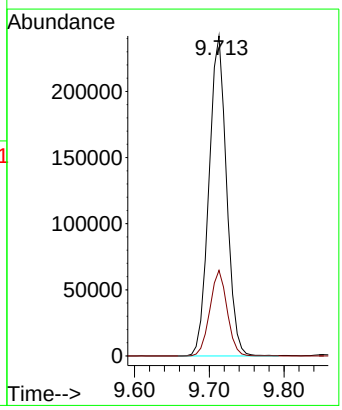
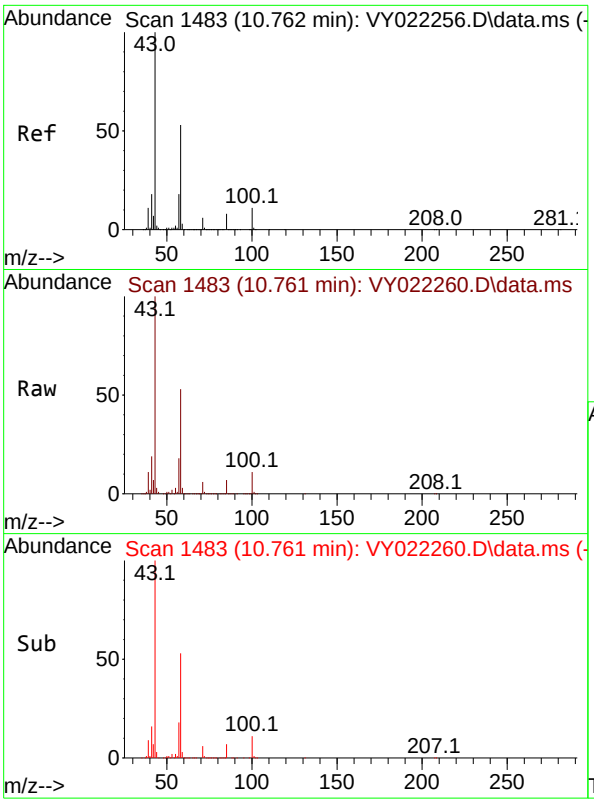


#58
2-Chloroethyl Vinyl ether
Concen: 271.104 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. 0.006 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 63 Resp: 394587

Ion	Ratio	Lower	Upper
63	100		
106	26.3	21.0	31.4





#59
2-Hexanone
Concen: 257.738 ug/l
RT: 10.761 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 43 Resp: 37522

Ion	Ratio	Lower	Upper
43	100		
58	52.0	26.1	78.3

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

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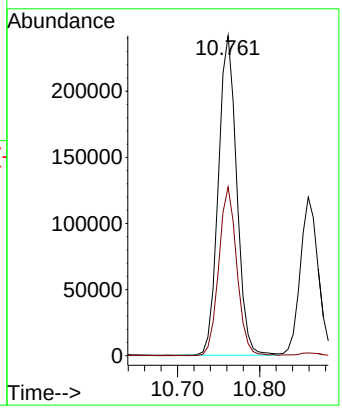
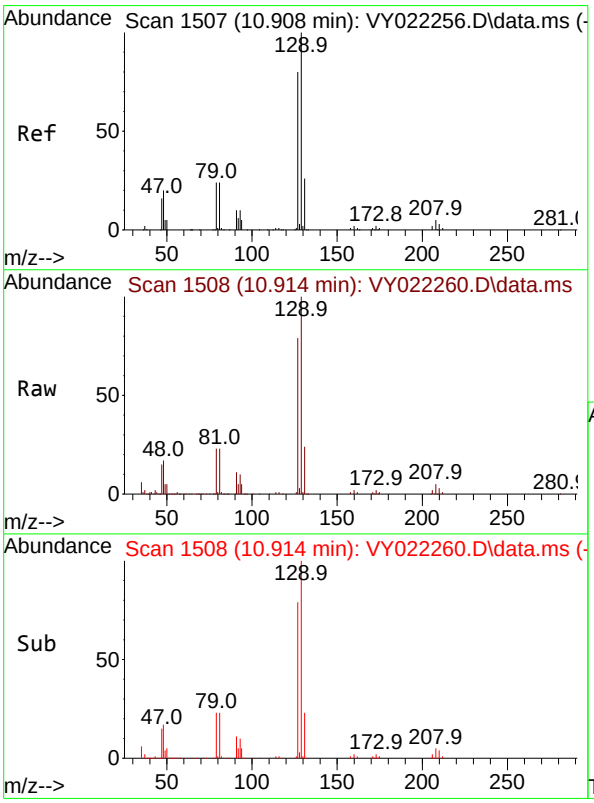
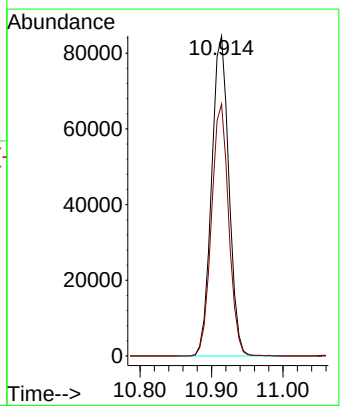


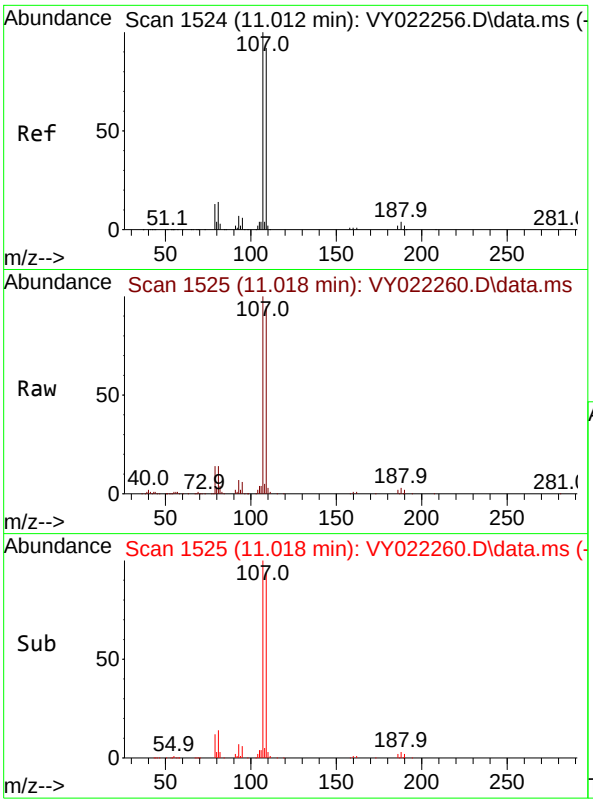


#60
Dibromochloromethane
Concen: 52.425 ug/l
RT: 10.914 min Scan# 1508
Delta R.T. 0.006 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion:129 Resp: 141652

Ion	Ratio	Lower	Upper
129	100		
127	78.4	38.6	115.7

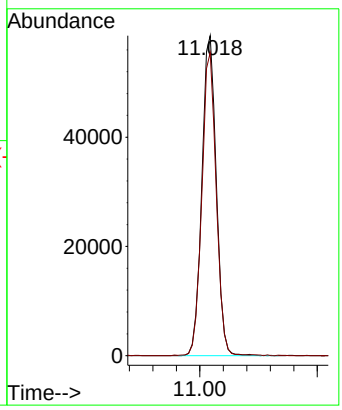




#61
1,2-Dibromoethane
Concen: 51.428 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion:107 Resp: 9978

Ion	Ratio	Lower	Upper
107	100		
109	94.4	74.6	111.8



Instrument :
MSVOA_Y
ClientSampleId :
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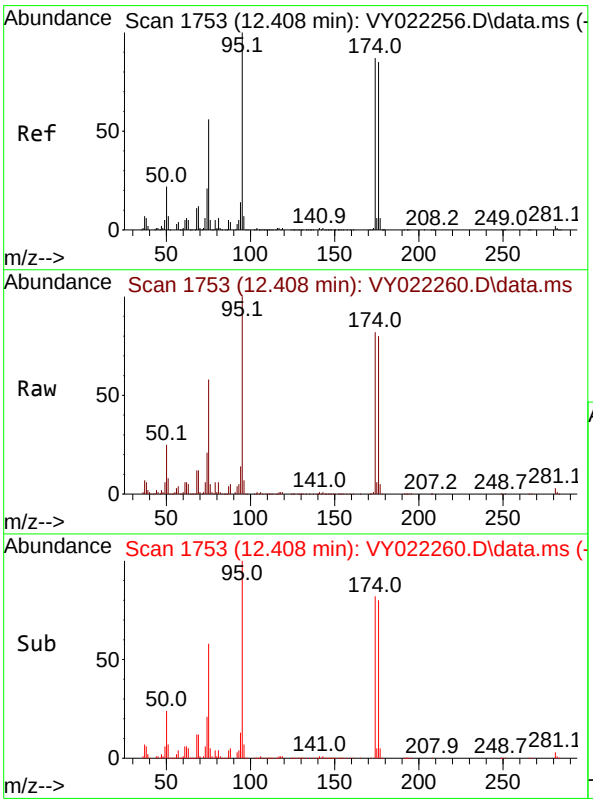
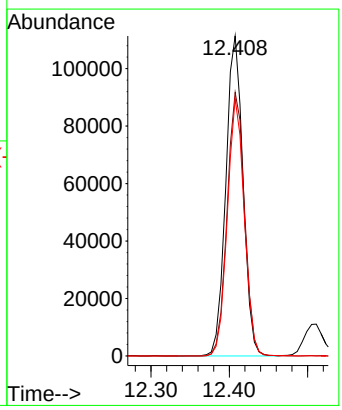
Supervised By :Semsettin Yesilyurt 05/16/2025

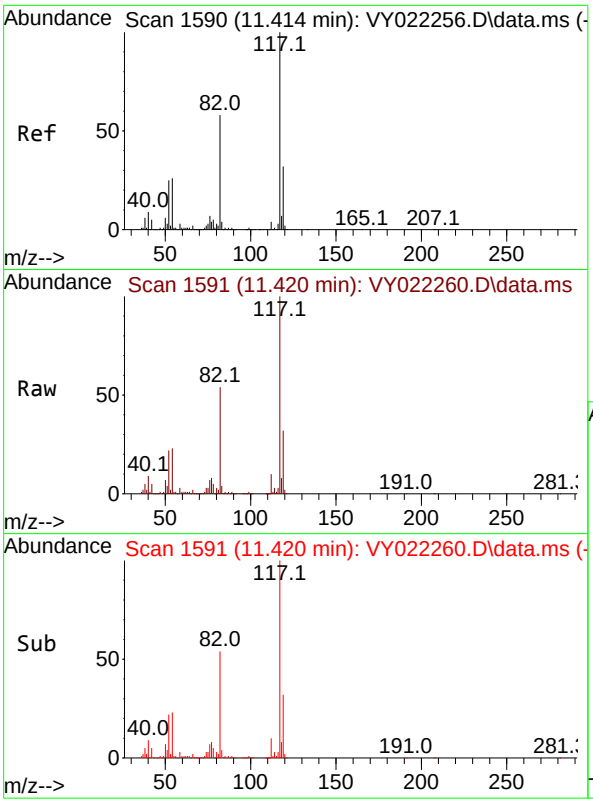


#62
4-Bromofluorobenzene
Concen: 51.020 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 95 Resp: 169575

Ion	Ratio	Lower	Upper
95	100		
174	83.5	0.0	166.8
176	79.1	0.0	160.8

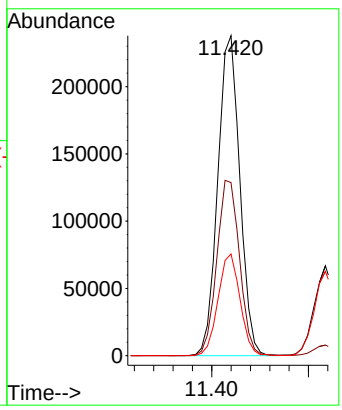




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion:117 Resp: 37554

Ion	Ratio	Lower	Upper
117	100		
82	54.1	46.6	70.0
119	31.8	25.8	38.6



Instrument :
MSVOA_Y
ClientSampleId :
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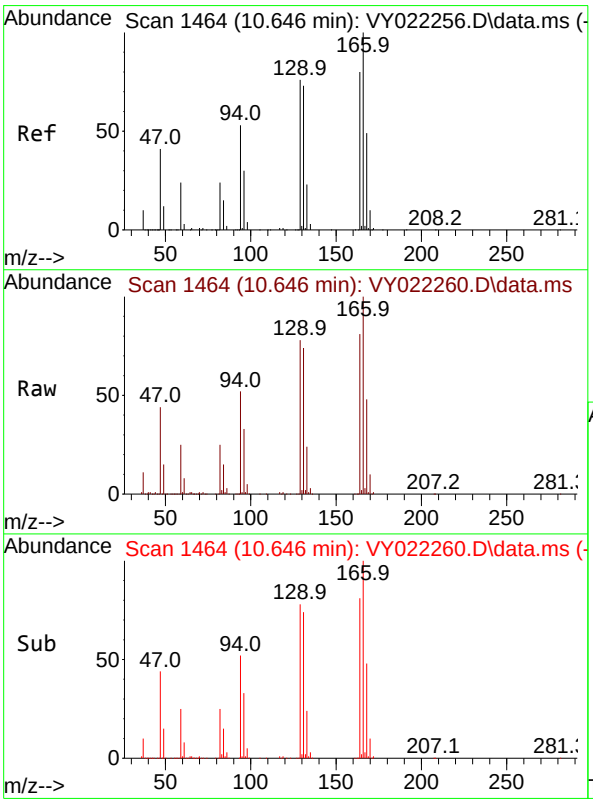
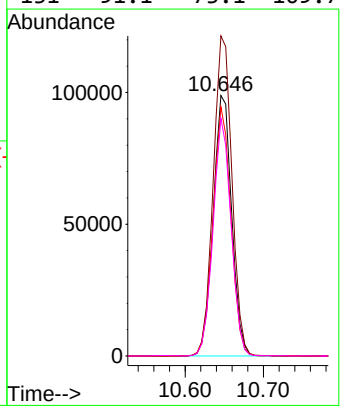
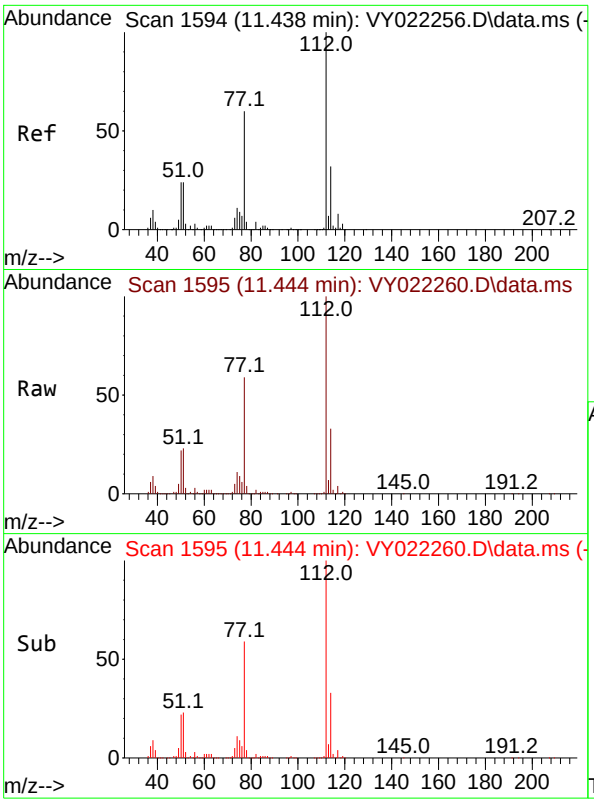


#64
Tetrachloroethene
Concen: 46.905 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion:164 Resp: 162818

Ion	Ratio	Lower	Upper
164	100		
166	122.8	100.4	150.6
129	95.5	76.4	114.6
131	91.1	73.1	109.7

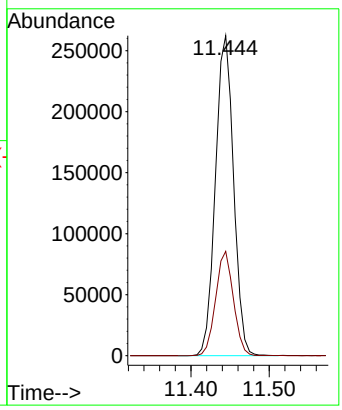




#65
Chlorobenzene
Concen: 49.827 ug/l
RT: 11.444 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion:112 Resp: 42217

Ion	Ratio	Lower	Upper
112	100		
114	32.6	25.8	38.6



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

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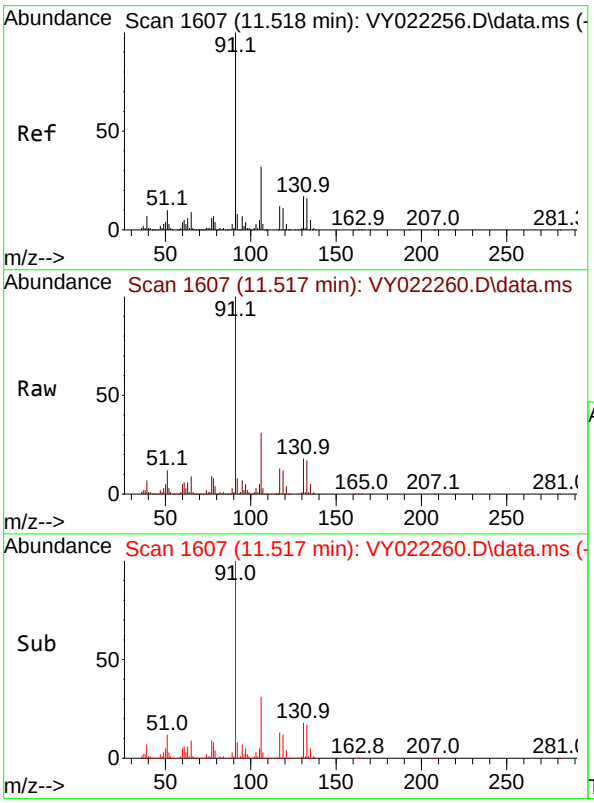
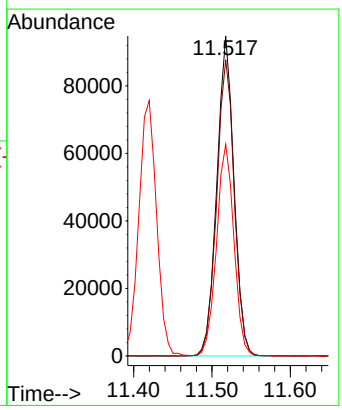
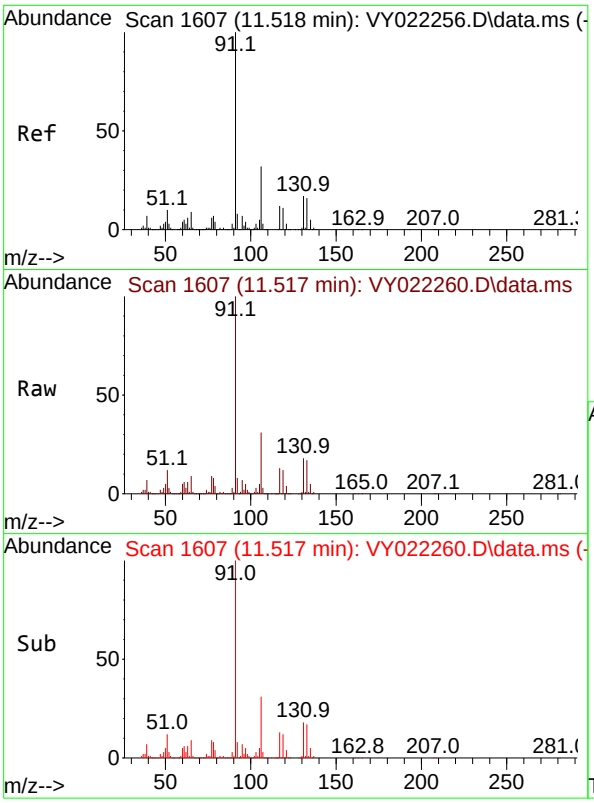


#66
1,1,1,2-Tetrachloroethane
Concen: 49.656 ug/l
RT: 11.517 min Scan# 1607
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion:131 Resp: 144636

Ion	Ratio	Lower	Upper
131	100		
133	94.9	47.3	141.9
119	67.0	33.1	99.2

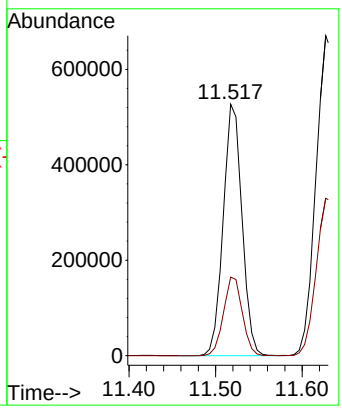




#67
Ethyl Benzene
Concen: 50.100 ug/l
RT: 11.517 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 91 Resp: 79497

Ion	Ratio	Lower	Upper
91	100		
106	31.2	25.4	38.0



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

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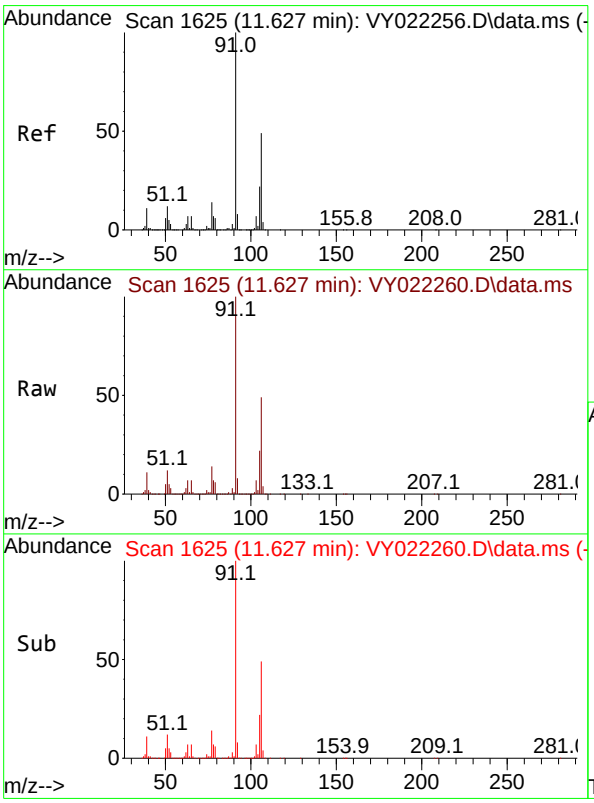
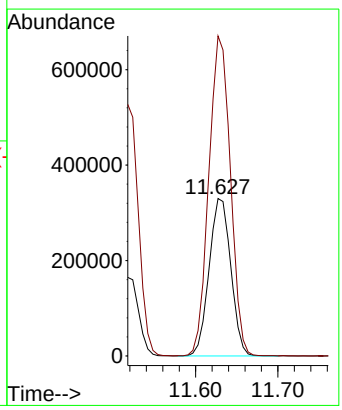
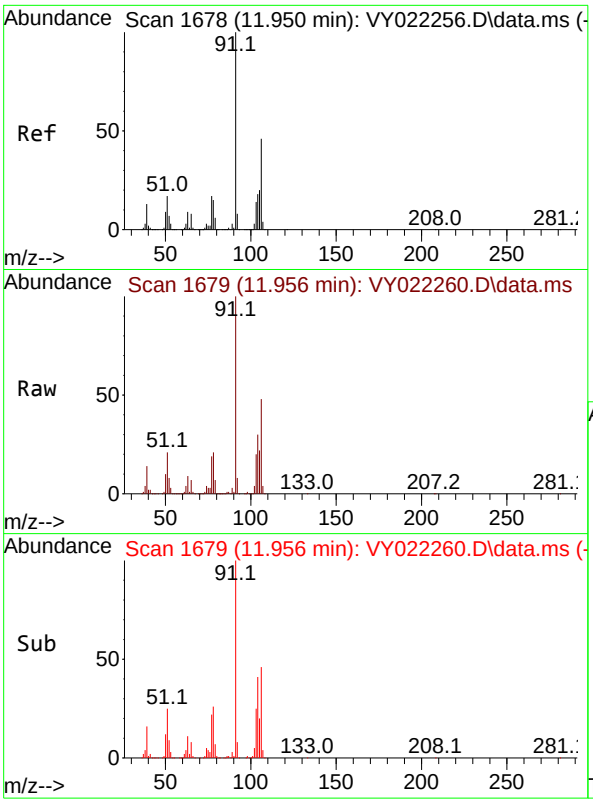


#68
m/p-Xylenes
Concen: 101.087 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion:106 Resp: 604420

Ion	Ratio	Lower	Upper
106	100		
91	202.6	163.0	244.4





#69
o-Xylene
Concen: 50.682 ug/l
RT: 11.956 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion:106 Resp: 28671

Ion	Ratio	Lower	Upper
106	100		
91	213.3	108.3	324.8

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

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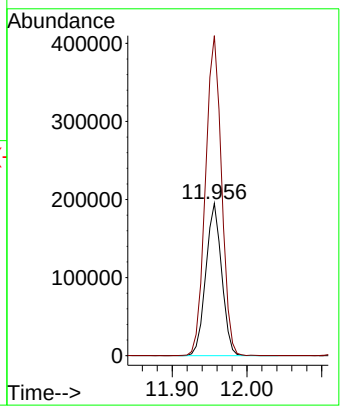
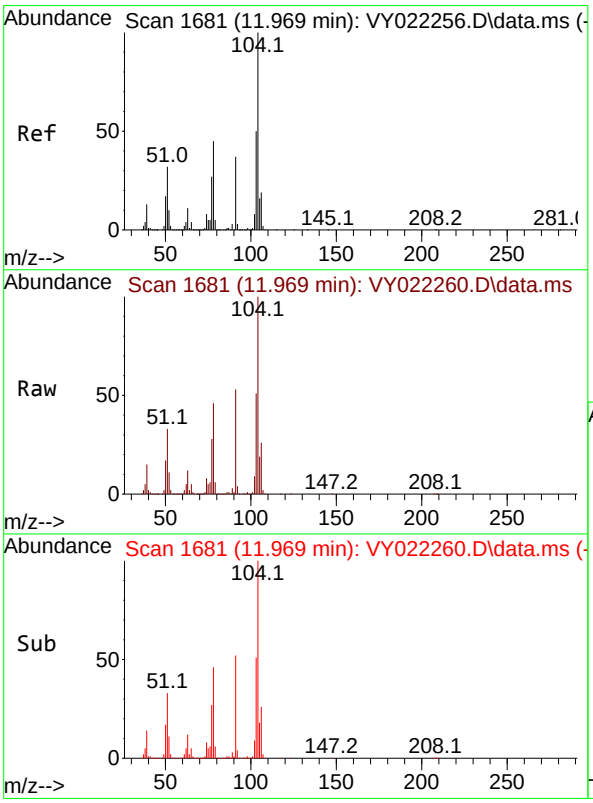
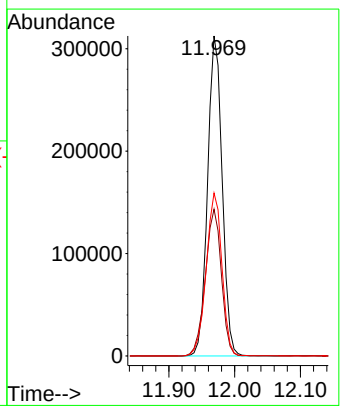


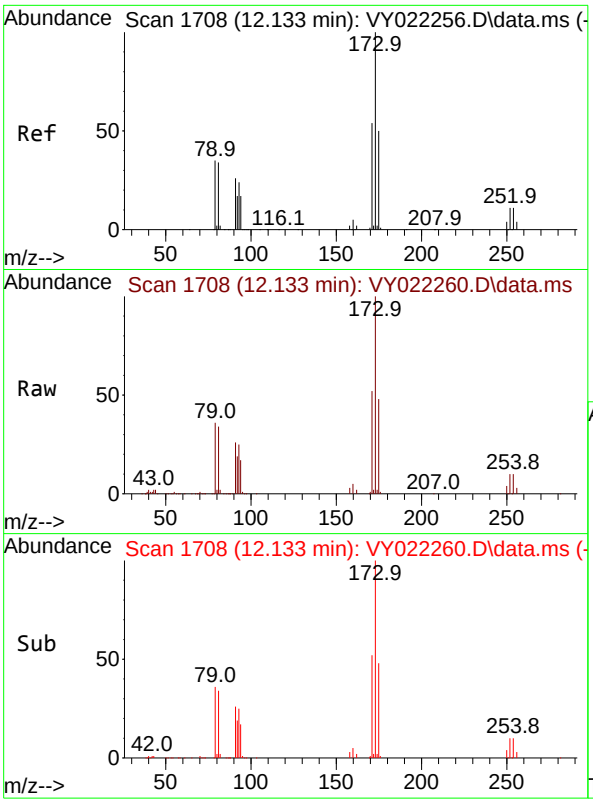


#70
Styrene
Concen: 50.471 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion:104 Resp: 481621

Ion	Ratio	Lower	Upper
104	100		
78	50.7	40.9	61.3
103	55.1	43.7	65.5

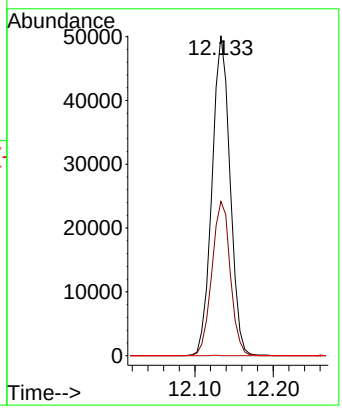




#71
Bromoform
Concen: 51.022 ug/l
RT: 12.133 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion:173 Resp: 8021

Ion	Ratio	Lower	Upper
173	100		
175	49.3	24.7	74.1
254	0.1	0.0	0.0



Instrument :
MSVOA_Y
ClientSampleId :
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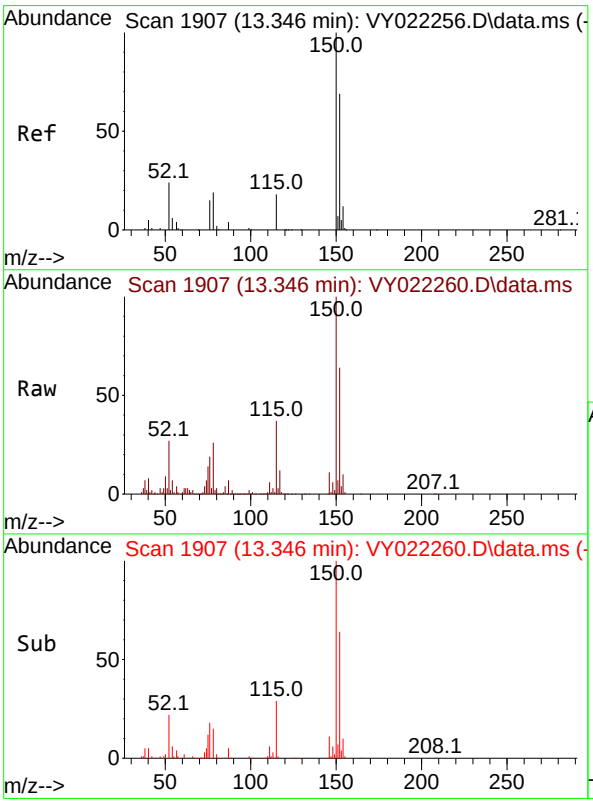
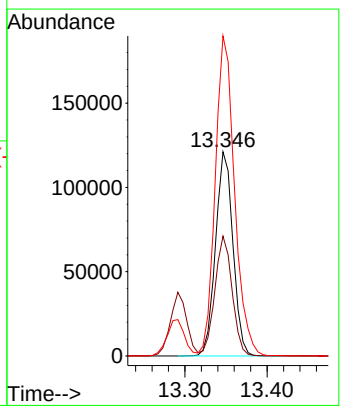
Supervised By :Semsettin Yesilyurt 05/16/2025

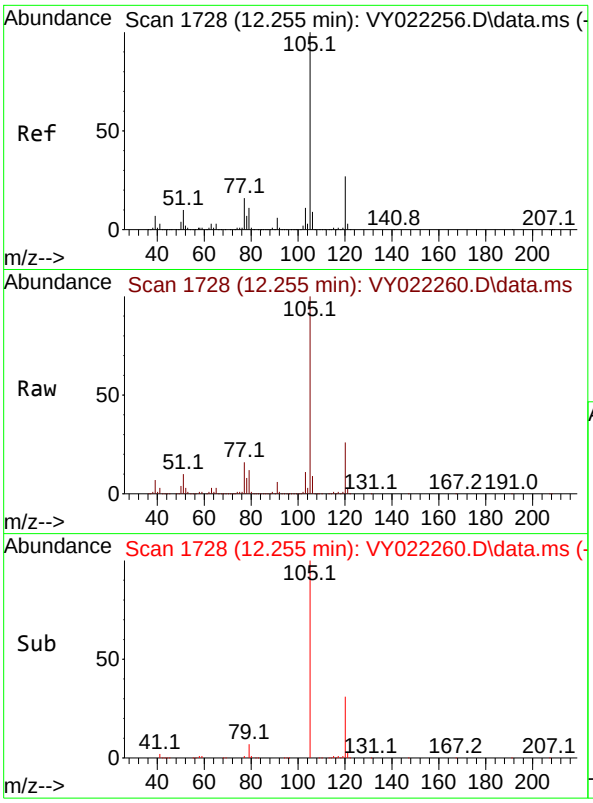


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion:152 Resp: 178387

Ion	Ratio	Lower	Upper
152	100		
115	58.1	29.4	88.2
150	173.8	0.0	353.8

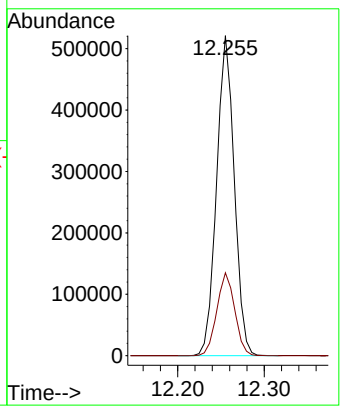




#73
Isopropylbenzene
Concen: 49.964 ug/l
RT: 12.255 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion:105 Resp: 73839

Ion	Ratio	Lower	Upper
105	100		
120	26.2	13.2	39.6



Instrument :
MSVOA_Y
ClientSampleId :
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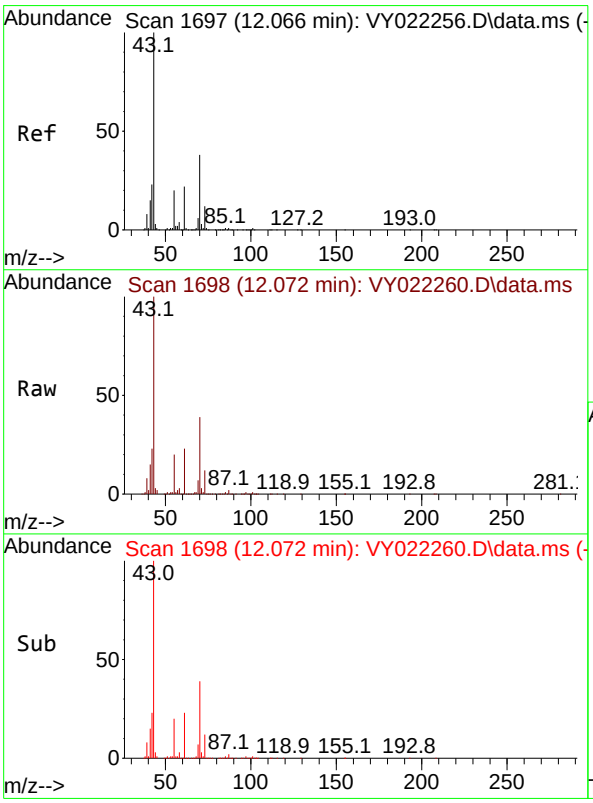
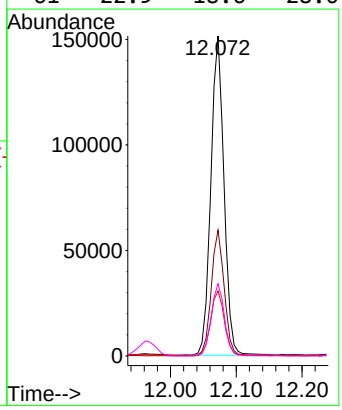
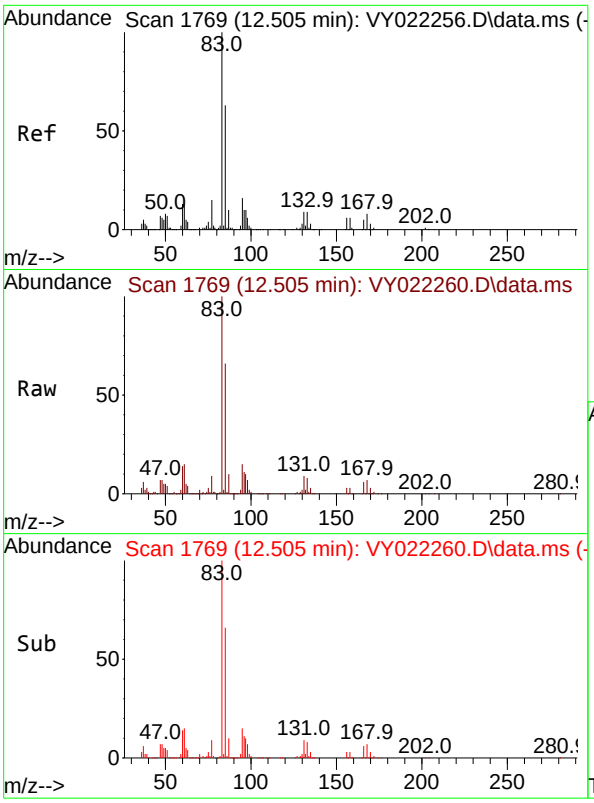


#74
N-amyl acetate
Concen: 49.805 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.006 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 43 Resp: 210510

Ion	Ratio	Lower	Upper
43	100		
70	39.0	31.4	47.0
55	20.7	17.0	25.6
61	22.9	18.6	28.0

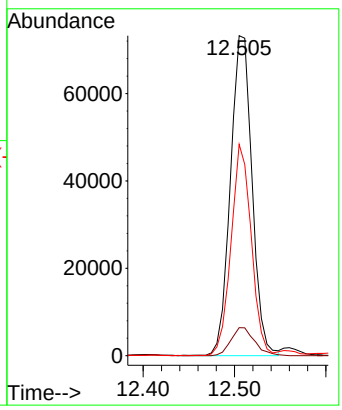




#75
1,1,2,2-Tetrachloroethane
Concen: 53.062 ug/l
RT: 12.505 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 83 Resp: 12059

Ion	Ratio	Lower	Upper
83	100		
131	9.6	4.9	14.7
85	61.7	32.0	96.0



Instrument :
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ClientSampleId :
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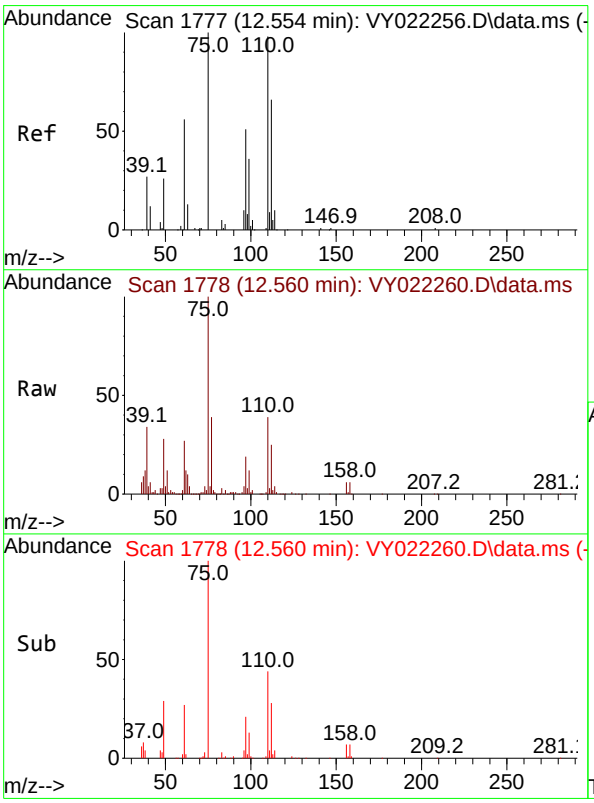
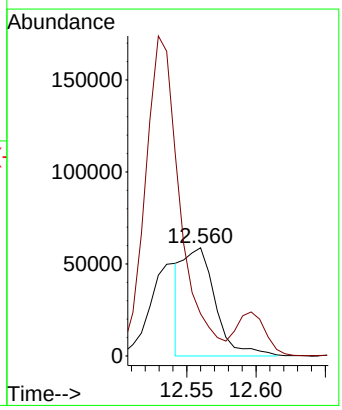
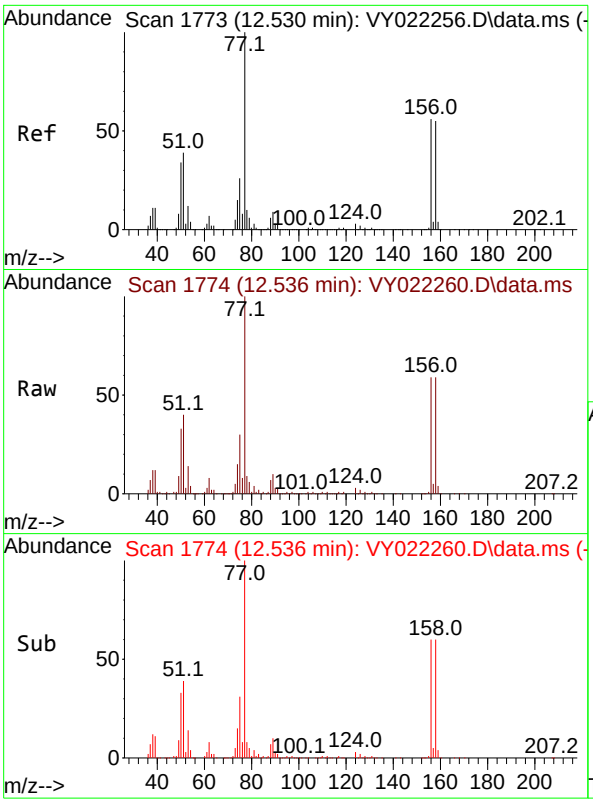


#76
1,2,3-Trichloropropane
Concen: 53.564 ug/l m
RT: 12.560 min Scan# 1778
Delta R.T. 0.006 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 75 Resp: 96804

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

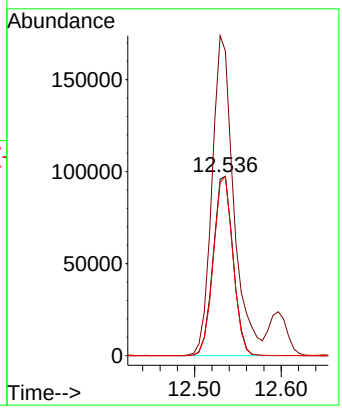




#77
Bromobenzene
Concen: 49.374 ug/l
RT: 12.536 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion:156 Resp: 15584

Ion	Ratio	Lower	Upper
156	100		
77	194.2	94.5	283.6
158	98.0	48.4	145.3



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

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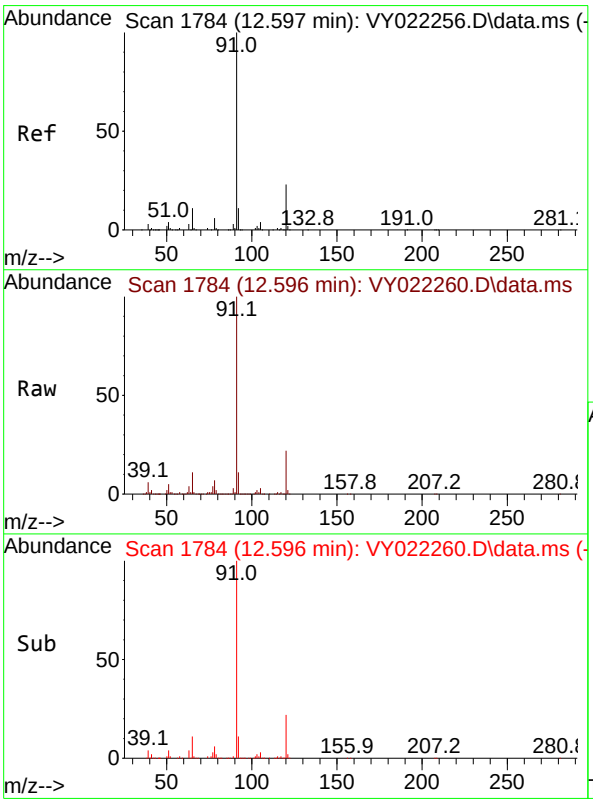
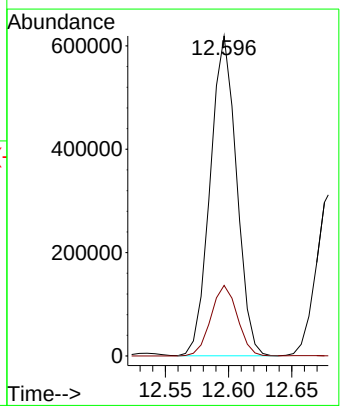
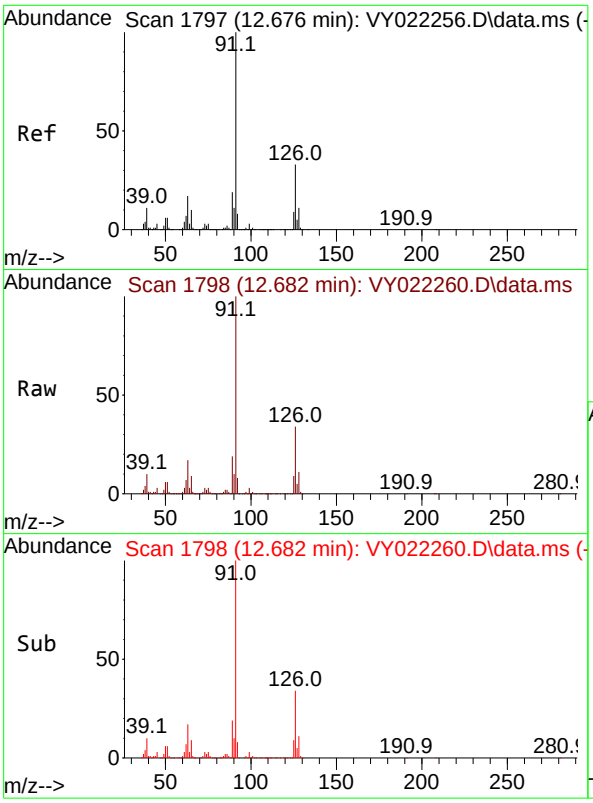


#78
n-propylbenzene
Concen: 50.296 ug/l
RT: 12.596 min Scan# 1784
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 91 Resp: 896555

Ion	Ratio	Lower	Upper
91	100		
120	22.1	11.1	33.3

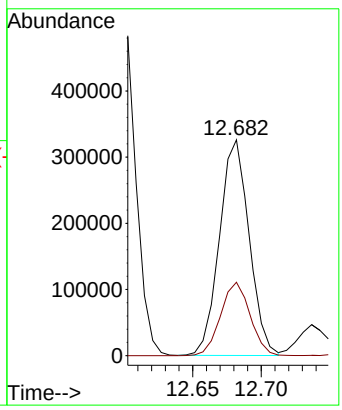




#79
2-Chlorotoluene
Concen: 50.130 ug/l
RT: 12.682 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 91 Resp: 49107

Ion	Ratio	Lower	Upper
91	100		
126	33.8	16.8	50.4



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

Manual Integrations
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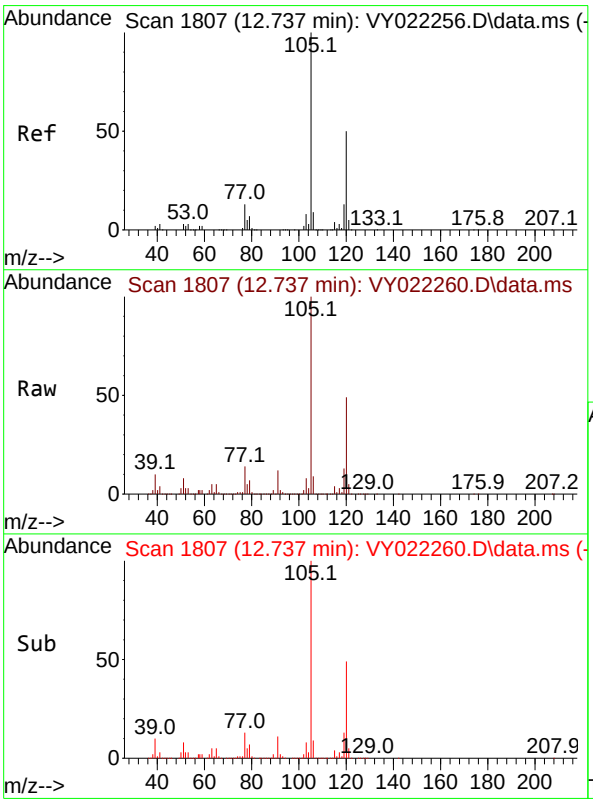
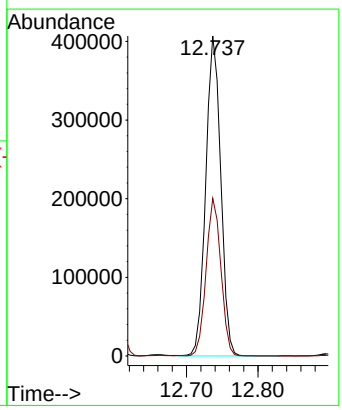
Reviewed By :Mahesh Dadoda 05/16/2025
Supervised By :Semsettin Yesilyurt 05/16/2025

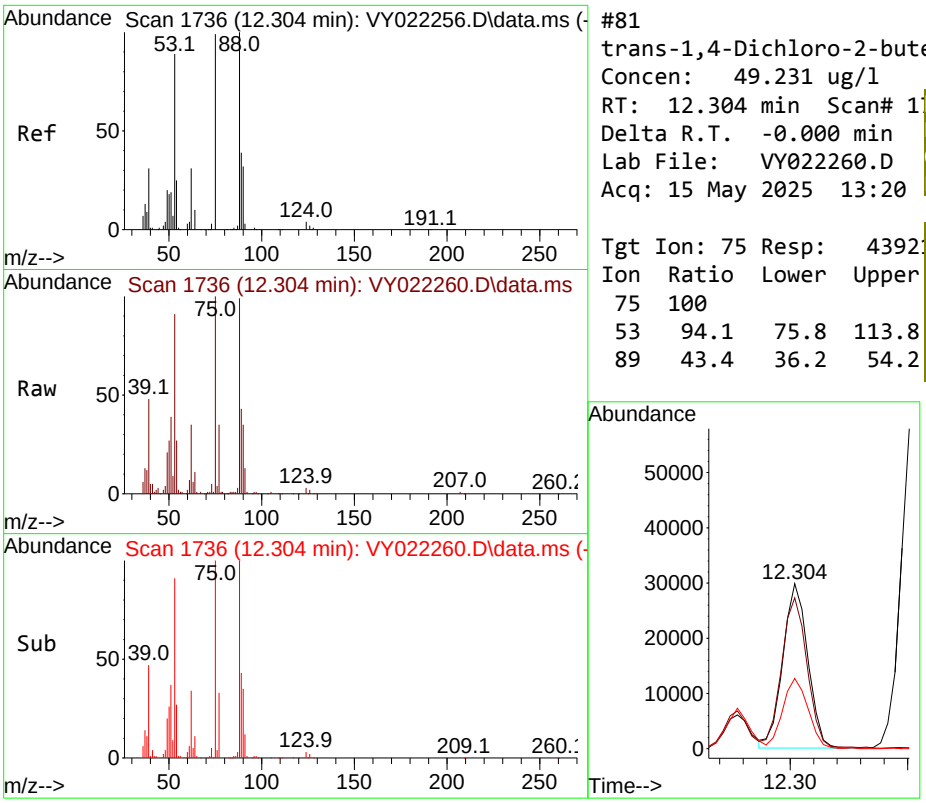


#80
1,3,5-Trimethylbenzene
Concen: 49.632 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion:105 Resp: 592100

Ion	Ratio	Lower	Upper
105	100		
120	48.7	24.2	72.6





#81
trans-1,4-Dichloro-2-butene
Concen: 49.231 ug/l
RT: 12.304 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 75 Resp: 4392

Ion	Ratio	Lower	Upper
75	100		
53	94.1	75.8	113.8
89	43.4	36.2	54.2

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

Manual Integrations
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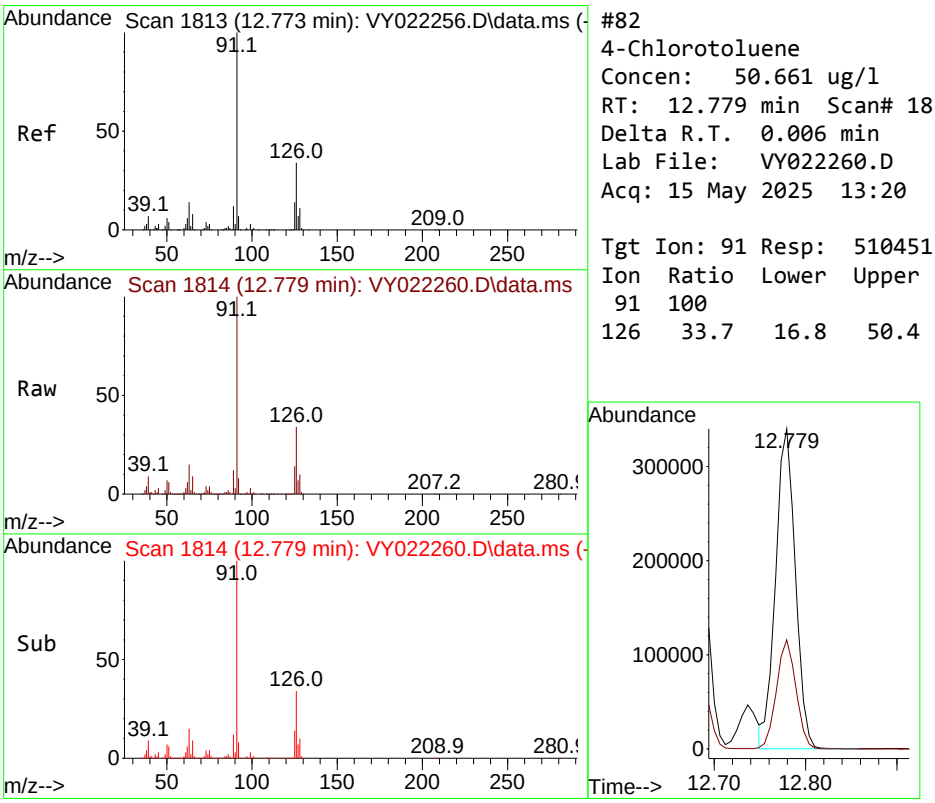
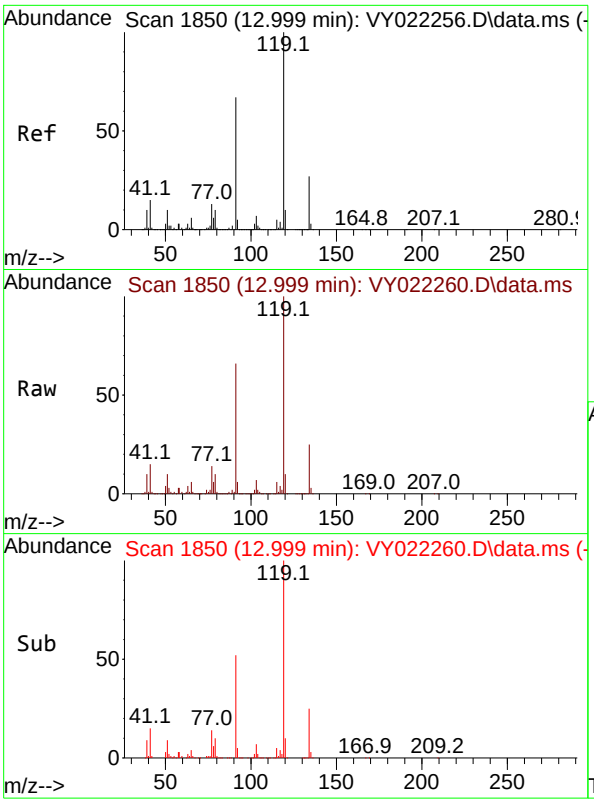
Supervised By :Semsettin Yesilyurt 05/16/2025



#82
4-Chlorotoluene
Concen: 50.661 ug/l
RT: 12.779 min Scan# 1814
Delta R.T. 0.006 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 91 Resp: 510451

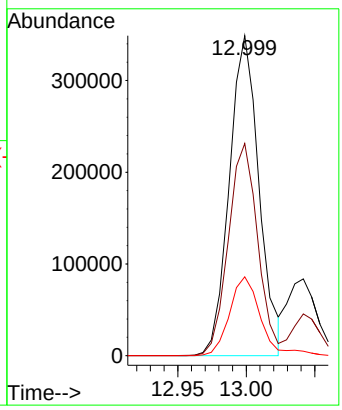
Ion	Ratio	Lower	Upper
91	100		
126	33.7	16.8	50.4



#83
tert-Butylbenzene
Concen: 49.715 ug/l
RT: 12.999 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion:119 Resp: 52714

Ion	Ratio	Lower	Upper
119	100		
91	65.4	32.8	98.3
134	25.8	12.9	38.6



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

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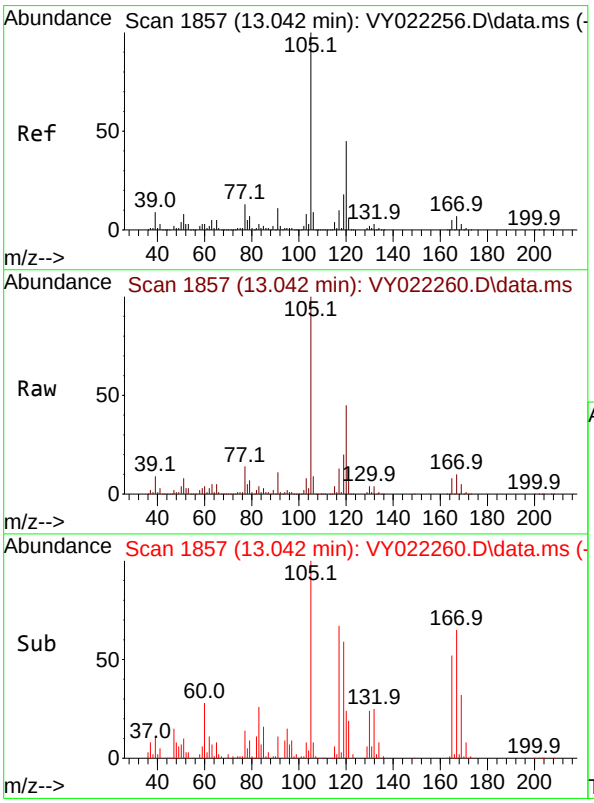
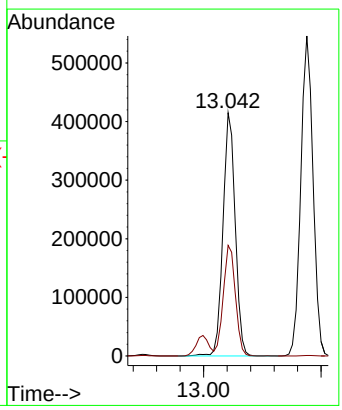
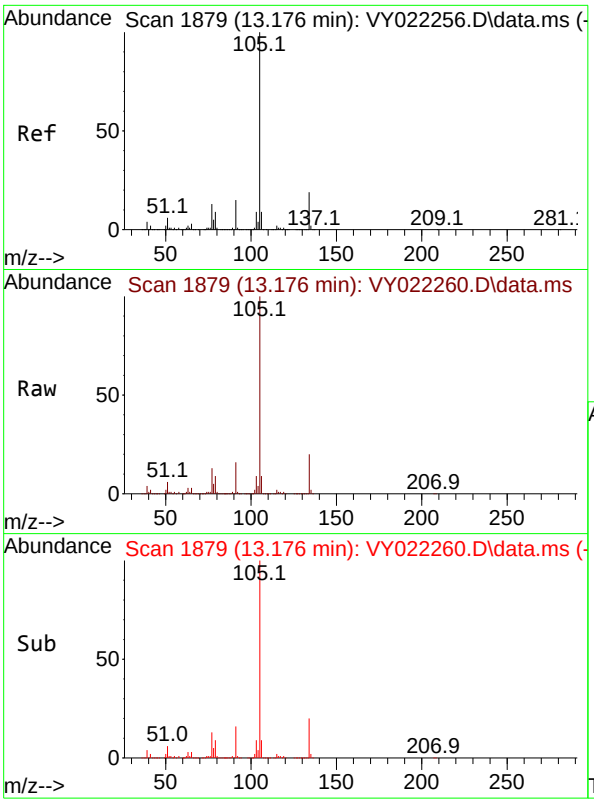


#84
1,2,4-Trimethylbenzene
Concen: 50.535 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion:105 Resp: 598450

Ion	Ratio	Lower	Upper
105	100		
120	45.1	22.3	66.9





#85
sec-Butylbenzene
Concen: 50.000 ug/l
RT: 13.176 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion:105 Resp: 78700

Ion	Ratio	Lower	Upper
105	100		
134	19.8	9.8	29.5

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

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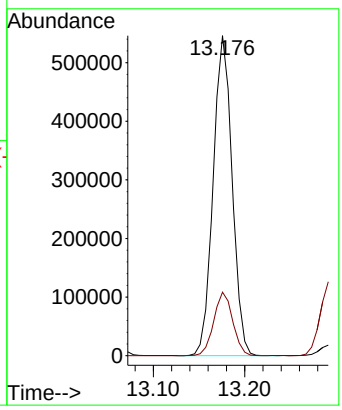
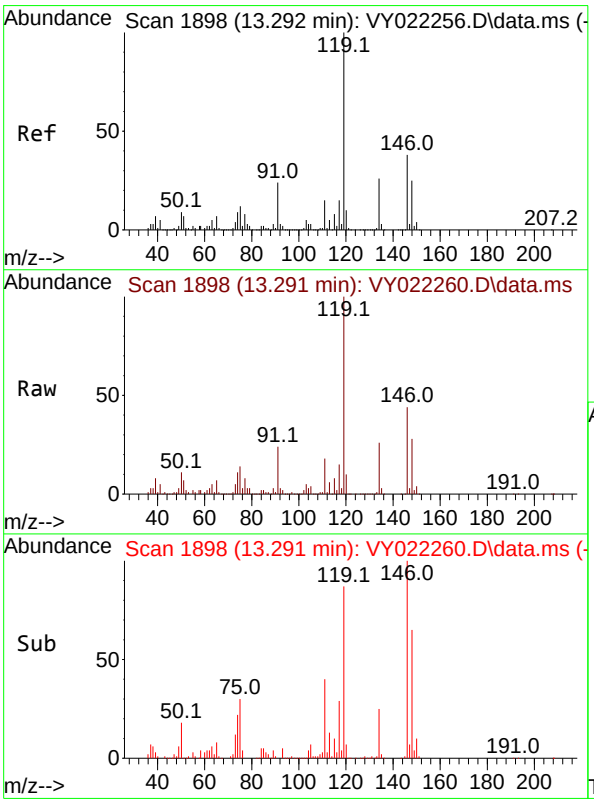
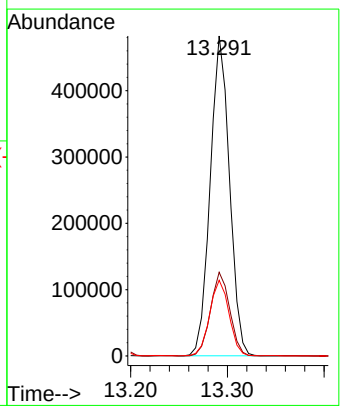


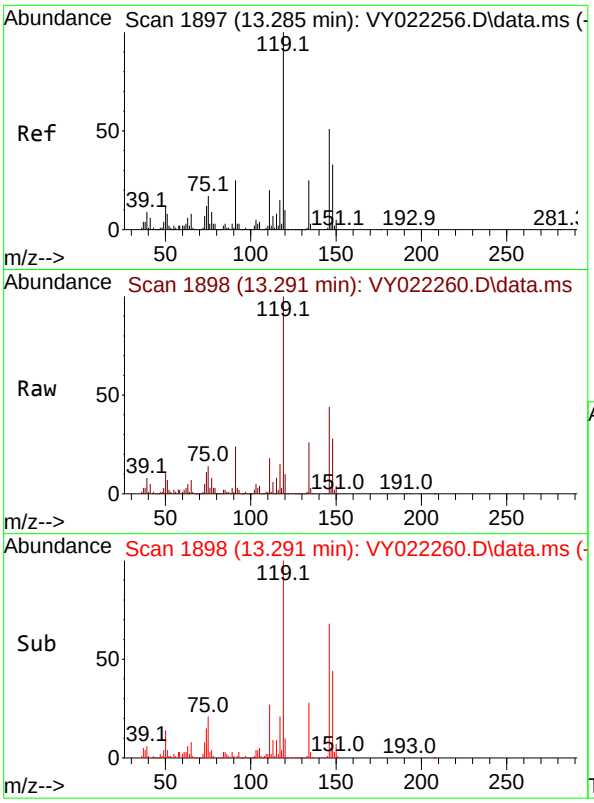


#86
p-Isopropyltoluene
Concen: 50.219 ug/l
RT: 13.291 min Scan# 1898
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion:119 Resp: 664795

Ion	Ratio	Lower	Upper
119	100		
134	26.2	12.9	38.6
91	23.8	12.1	36.3

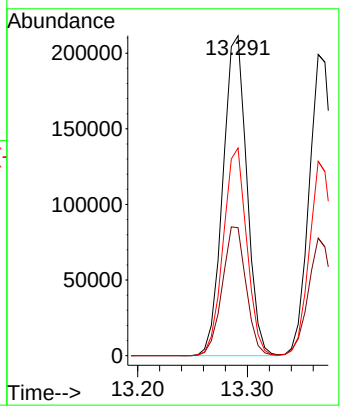




#87
1,3-Dichlorobenzene
Concen: 49.718 ug/l
RT: 13.291 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion:146 Resp: 32035

Ion	Ratio	Lower	Upper
146	100		
111	40.2	19.9	59.7
148	63.8	31.9	95.7



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

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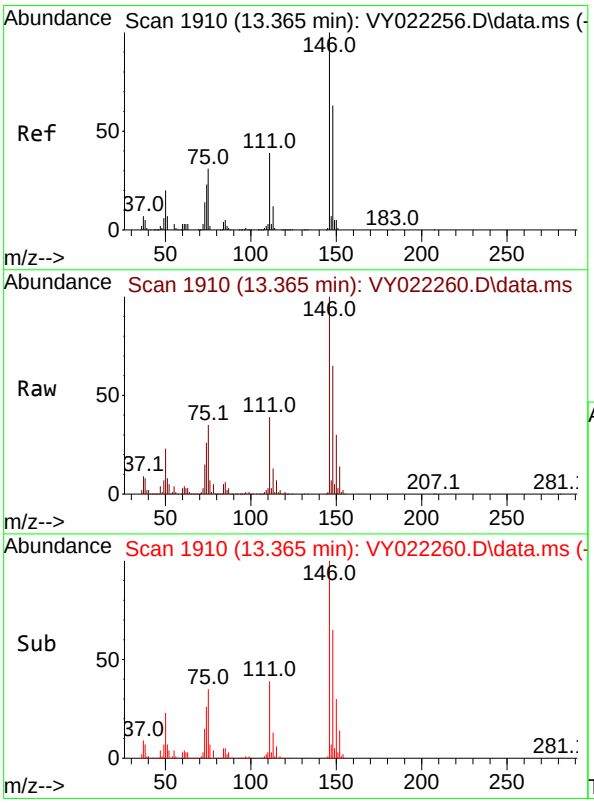
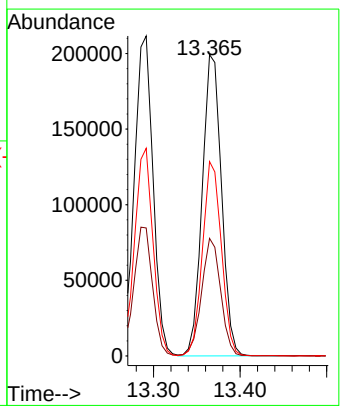
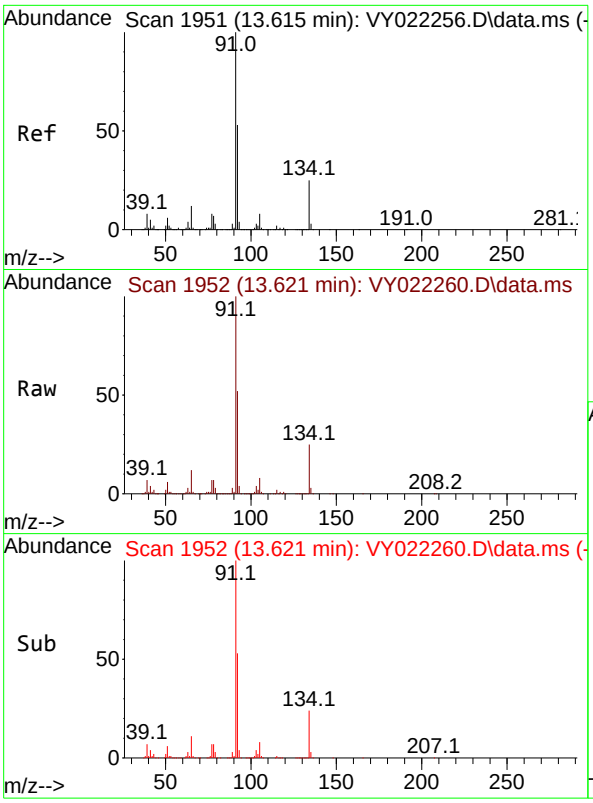


#88
1,4-Dichlorobenzene
Concen: 49.669 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion:146 Resp: 307847

Ion	Ratio	Lower	Upper
146	100		
111	38.6	20.0	59.9
148	63.3	32.1	96.5

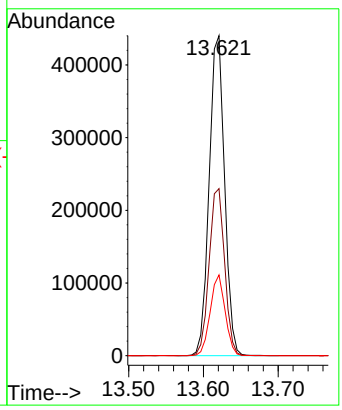




#89
n-Butylbenzene
Concen: 50.402 ug/l
RT: 13.621 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 91 Resp: 63122

Ion	Ratio	Lower	Upper
91	100		
92	52.7	26.3	78.9
134	24.6	12.4	37.4



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

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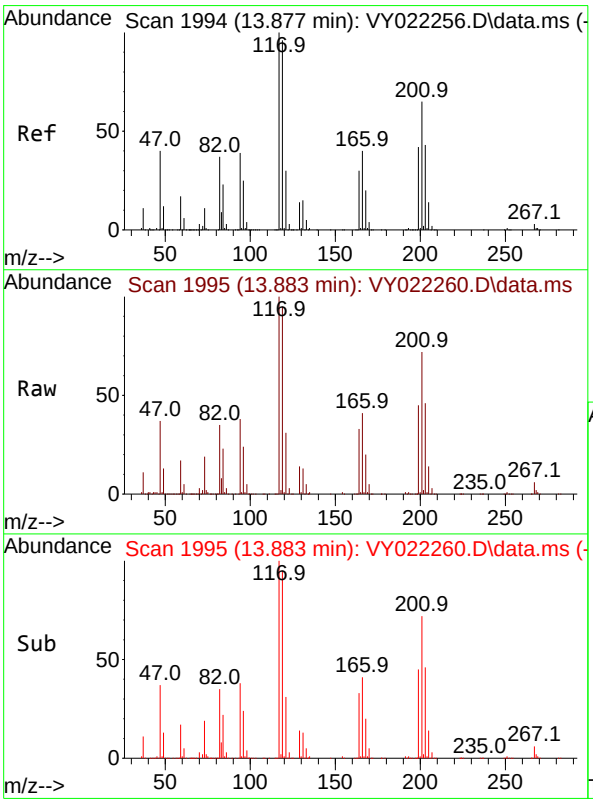
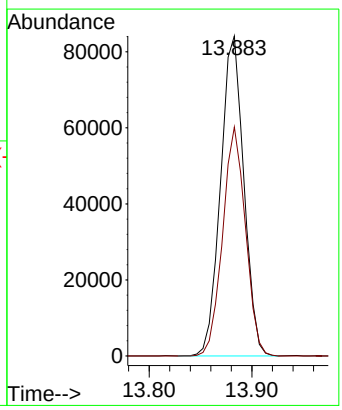
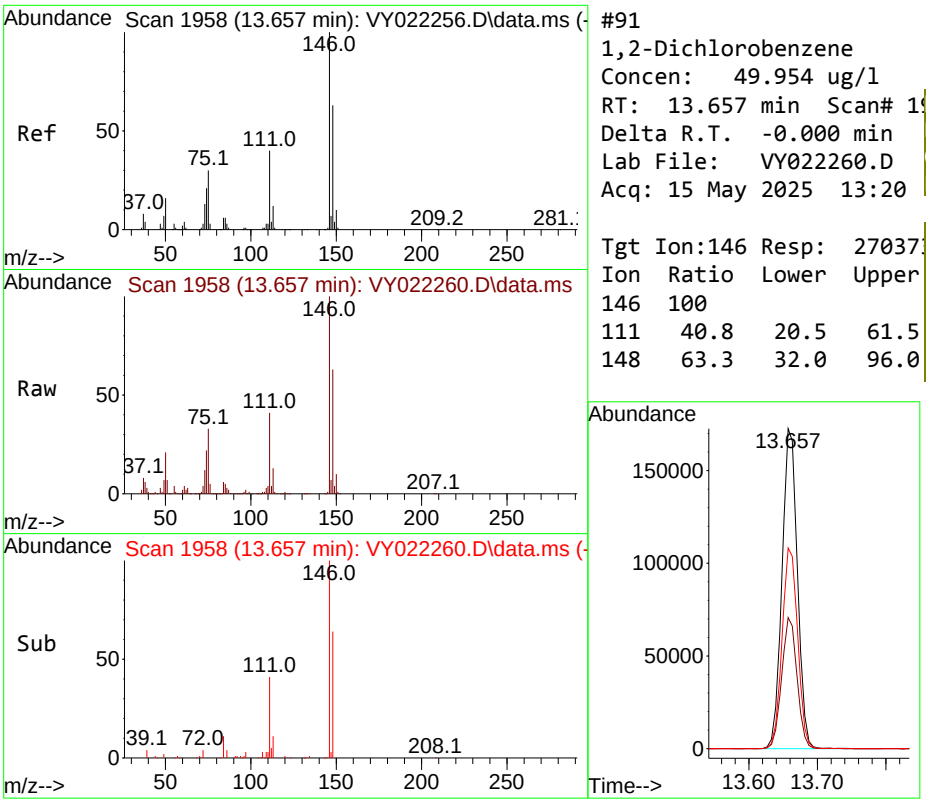


#90
Hexachloroethane
Concen: 49.502 ug/l
RT: 13.883 min Scan# 1995
Delta R.T. 0.006 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion:117 Resp: 132281

Ion	Ratio	Lower	Upper
117	100		
201	70.2	35.2	105.6





#91
1,2-Dichlorobenzene
Concen: 49.954 ug/l
RT: 13.657 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion:146 Resp: 27037

Ion	Ratio	Lower	Upper
146	100		
111	40.8	20.5	61.5
148	63.3	32.0	96.0

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

Manual Integrations
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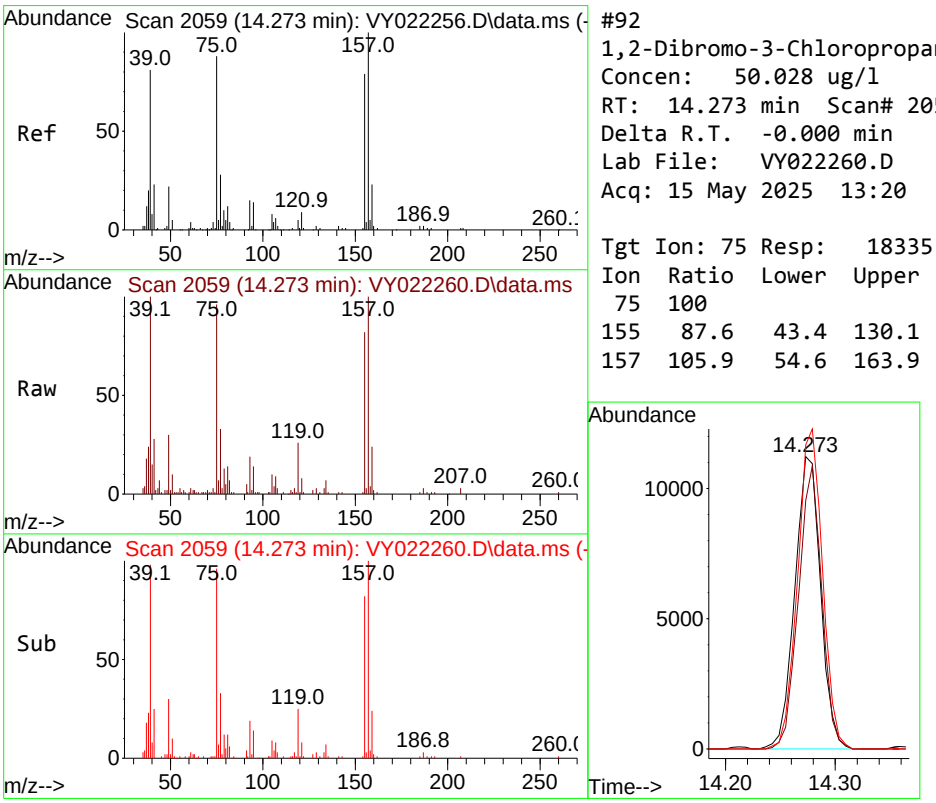
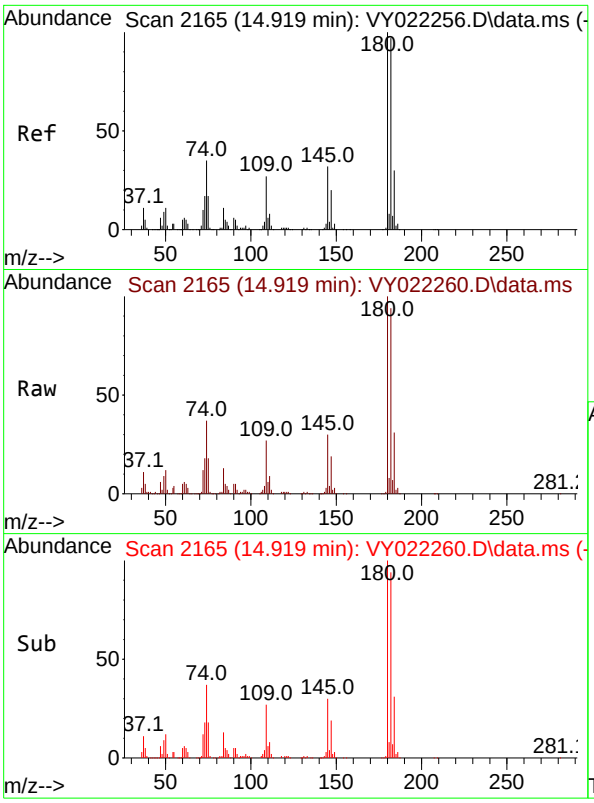


#92
1,2-Dibromo-3-Chloropropane
Concen: 50.028 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 75 Resp: 18335

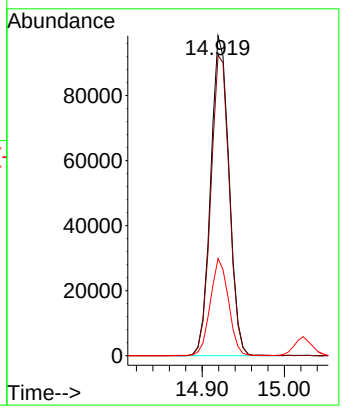
Ion	Ratio	Lower	Upper
75	100		
155	87.6	43.4	130.1
157	105.9	54.6	163.9



#93
1,2,4-Trichlorobenzene
Concen: 48.794 ug/l
RT: 14.919 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion:180 Resp: 15254

Ion	Ratio	Lower	Upper
180	100		
182	94.7	48.0	144.0
145	30.1	15.0	45.1



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

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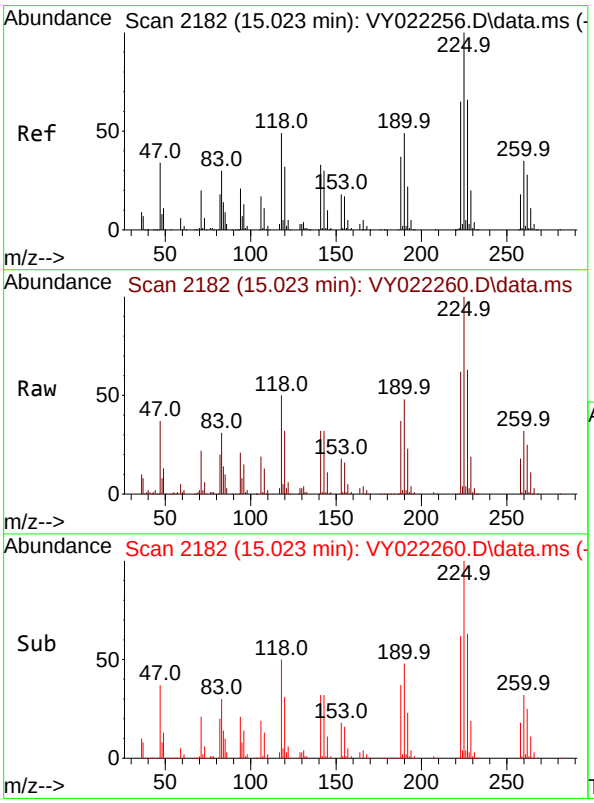
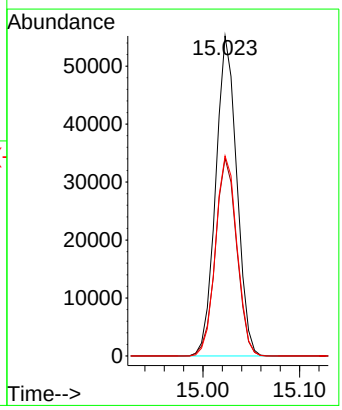
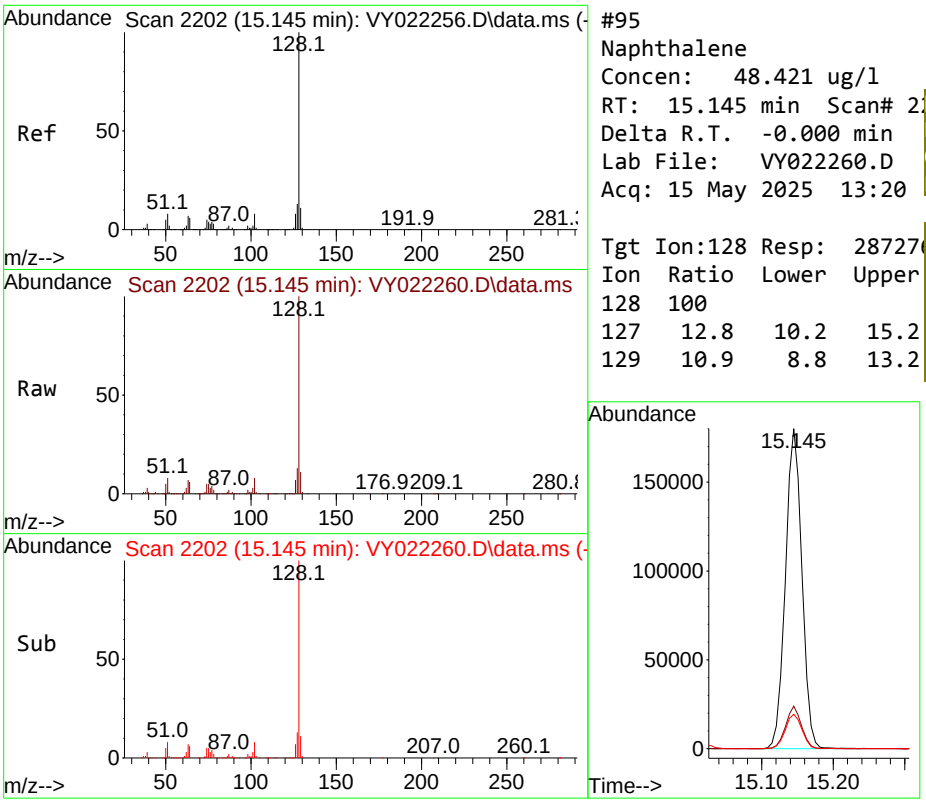


#94
Hexachlorobutadiene
Concen: 47.770 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion:225 Resp: 83287

Ion	Ratio	Lower	Upper
225	100		
223	62.6	31.5	94.5
227	63.6	32.1	96.3





#95
Naphthalene
Concen: 48.421 ug/l
RT: 15.145 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion:128 Resp: 28727

Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.2	15.2
129	10.9	8.8	13.2

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

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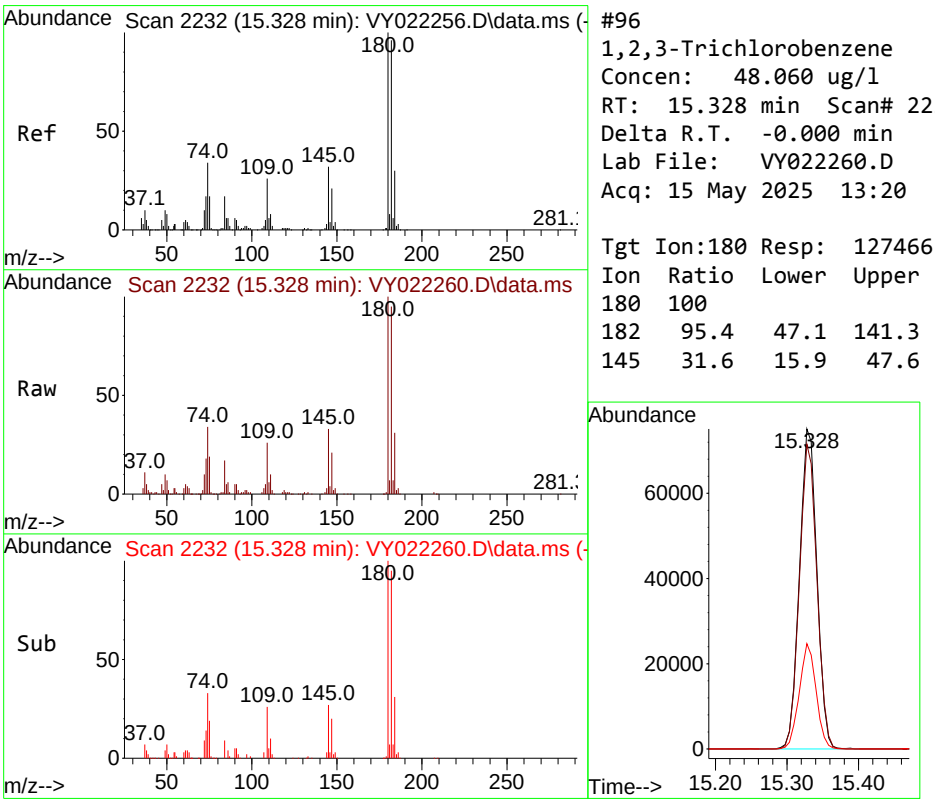

#96
1,2,3-Trichlorobenzene
Concen: 48.060 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion:180 Resp: 127466

Ion	Ratio	Lower	Upper
180	100		
182	95.4	47.1	141.3
145	31.6	15.9	47.6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022260.D
Acq On : 15 May 2025 13:20
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

Quant Time: May 16 01:47:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	94	0.00
2	T	Dichlorodifluoromethane	0.522	0.516	1.1	96	0.00
3	P	Chloromethane	1.097	1.069	2.6	97	0.00
4	C	Vinyl Chloride	1.226	1.253	-2.2#	98	0.00
5	T	Bromomethane	0.998	0.968	3.0	104	0.00
6	T	Chloroethane	0.763	0.812	-6.4	101	0.00
7	T	Trichlorofluoromethane	1.241	1.271	-2.4	99	0.00
8	T	Diethyl Ether	0.298	0.310	-4.0	100	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.539	0.556	-3.2	98	0.00
10	T	Methyl Iodide	0.624	0.619	0.8	85	0.00
11	T	Tert butyl alcohol	0.042	0.044	-4.8	108	0.00
12	CM	1,1-Dichloroethene	0.535	0.551	-3.0#	97	0.00
13	T	Acrolein	0.061	0.058	4.9	97	0.00
14	T	Allyl chloride	0.938	0.991	-5.7	98	0.00
15	T	Acrylonitrile	0.123	0.130	-5.7	102	0.00
16	T	Acetone	0.102	0.104	-2.0	105	0.00
17	T	Carbon Disulfide	1.744	1.806	-3.6	97	0.00
18	T	Methyl Acetate	0.323	0.384	-18.9	120	0.00
19	T	Methyl tert-butyl Ether	1.475	1.566	-6.2	101	0.00
20	T	Methylene Chloride	0.662	0.626	5.4	99	0.00
21	T	trans-1,2-Dichloroethene	0.590	0.609	-3.2	97	0.00
22	T	Diisopropyl ether	1.980	2.063	-4.2	98	0.00
23	T	Vinyl Acetate	1.196	1.211	-1.3	97	0.00
24	P	1,1-Dichloroethane	1.106	1.143	-3.3	97	0.00
25	T	2-Butanone	0.171	0.175	-2.3	103	0.00
26	T	2,2-Dichloropropane	0.984	1.027	-4.4	98	0.00
27	T	cis-1,2-Dichloroethene	0.681	0.715	-5.0	98	0.00
28	T	Bromochloromethane	0.472	0.494	-4.7	99	0.00
29	T	Tetrahydrofuran	0.110	0.117	-6.4	103	0.00
30	C	Chloroform	1.061	1.121	-5.7#	98	0.00
31	T	Cyclohexane	1.105	1.076	2.6	96	0.00
32	T	1,1,1-Trichloroethane	0.974	1.003	-3.0	98	0.00
33	S	1,2-Dichloroethane-d4	0.546	0.569	-4.2	99	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	98	0.00
35	S	Dibromofluoromethane	0.298	0.308	-3.4	100	0.00
36	T	1,1-Dichloropropene	0.492	0.496	-0.8	96	0.00
37	T	Ethyl Acetate	0.237	0.240	-1.3	100	0.00
38	T	Carbon Tetrachloride	0.509	0.514	-1.0	97	0.00
39	T	Methylcyclohexane	0.660	0.661	-0.2	96	0.00
40	TM	Benzene	1.457	1.507	-3.4	98	0.00
41	T	Methacrylonitrile	0.157	0.168	-7.0	104	0.02
42	TM	1,2-Dichloroethane	0.394	0.409	-3.8	99	0.00
43	T	Isopropyl Acetate	0.516	0.530	-2.7	101	0.00
44	TM	Trichloroethene	0.362	0.365	-0.8	96	0.00
45	C	1,2-Dichloropropane	0.351	0.361	-2.8#	99	0.00
46	T	Dibromomethane	0.189	0.195	-3.2	101	0.00
47	T	Bromodichloromethane	0.492	0.516	-4.9	100	0.00
48	T	Methyl methacrylate	0.241	0.248	-2.9	101	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022260.D
Acq On : 15 May 2025 13:20
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

Quant Time: May 16 01:47:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.002	0.002	0.0	103	0.00
50	S	Toluene-d8	1.222	1.252	-2.5	99	0.00
51	T	4-Methyl-2-Pentanone	0.253	0.265	-4.7	102	0.00
52	CM	Toluene	0.923	0.947	-2.6#	98	0.00
53	T	t-1,3-Dichloropropene	0.480	0.494	-2.9	99	0.00
54	T	cis-1,3-Dichloropropene	0.550	0.571	-3.8	99	0.00
55	T	1,1,2-Trichloroethane	0.243	0.248	-2.1	100	0.00
56	T	Ethyl methacrylate	0.378	0.383	-1.3	98	0.00
57	T	1,3-Dichloropropane	0.431	0.447	-3.7	100	0.00
58	T	2-Chloroethyl Vinyl ether	0.170	0.184	-8.2	98	0.00
59	T	2-Hexanone	0.170	0.175	-2.9	103	0.00
60	T	Dibromochloromethane	0.315	0.330	-4.8	100	0.00
61	T	1,2-Dibromoethane	0.226	0.233	-3.1	100	0.00
62	S	4-Bromofluorobenzene	0.387	0.395	-2.1	100	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	99	0.00
64	T	Tetrachloroethene	0.462	0.434	6.1	91	0.00
65	PM	Chlorobenzene	1.128	1.124	0.4	97	0.00
66	T	1,1,1,2-Tetrachloroethane	0.388	0.385	0.8	97	0.00
67	C	Ethyl Benzene	2.113	2.117	-0.2#	97	0.00
68	T	m/p-Xylenes	0.796	0.805	-1.1	98	0.00
69	T	o-Xylene	0.753	0.763	-1.3	99	0.00
70	T	Styrene	1.270	1.282	-0.9	98	0.00
71	P	Bromoform	0.209	0.214	-2.4	102	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	99	0.00
73	T	Isopropylbenzene	4.142	4.139	0.1	98	0.00
74	T	N-amyl acetate	1.185	1.180	0.4	101	0.00
75	P	1,1,2,2-Tetrachloroethane	0.637	0.676	-6.1	107	0.00
76	T	1,2,3-Trichloropropane	0.507	0.543	-7.1	107	0.00
77	T	Bromobenzene	0.885	0.874	1.2	97	0.00
78	T	n-propylbenzene	4.996	5.026	-0.6	97	0.00
79	T	2-Chlorotoluene	2.746	2.753	-0.3	97	0.00
80	T	1,3,5-Trimethylbenzene	3.344	3.319	0.7	96	0.00
81	T	trans-1,4-Dichloro-2-butene	0.250	0.246	1.6	103	0.00
82	T	4-Chlorotoluene	2.824	2.861	-1.3	97	0.00
83	T	tert-Butylbenzene	2.972	2.955	0.6	97	0.00
84	T	1,2,4-Trimethylbenzene	3.319	3.355	-1.1	97	0.00
85	T	sec-Butylbenzene	4.412	4.412	0.0	95	0.00
86	T	p-Isopropyltoluene	3.710	3.727	-0.5	97	0.00
87	T	1,3-Dichlorobenzene	1.806	1.796	0.6	97	0.00
88	T	1,4-Dichlorobenzene	1.737	1.726	0.6	98	0.00
89	T	n-Butylbenzene	3.510	3.538	-0.8	95	0.00
90	T	Hexachloroethane	0.749	0.742	0.9	96	0.00
91	T	1,2-Dichlorobenzene	1.517	1.516	0.1	98	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.103	0.103	0.0	102	0.00
93	T	1,2,4-Trichlorobenzene	0.876	0.855	2.4	94	0.00
94	T	Hexachlorobutadiene	0.489	0.467	4.5	92	0.00
95	T	Naphthalene	1.663	1.610	3.2	96	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022260.D
Acq On : 15 May 2025 13:20
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

Quant Time: May 16 01:47:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.743	0.715	3.8	94	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022260.D
Acq On : 15 May 2025 13:20
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

Quant Time: May 16 01:47:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	94	0.00
2	T	Dichlorodifluoromethane	50.000	49.432	1.1	96	0.00
3	P	Chloromethane	50.000	48.719	2.6	97	0.00
4	C	Vinyl Chloride	50.000	51.111	-2.2#	98	0.00
5	T	Bromomethane	50.000	48.486	3.0	104	0.00
6	T	Chloroethane	50.000	53.234	-6.5	101	0.00
7	T	Trichlorofluoromethane	50.000	51.174	-2.3	99	0.00
8	T	Diethyl Ether	50.000	52.055	-4.1	100	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	51.564	-3.1	98	0.00
10	T	Methyl Iodide	50.000	49.606	0.8	85	0.00
11	T	Tert butyl alcohol	250.000	265.144	-6.1	108	0.00
12	CM	1,1-Dichloroethene	50.000	51.487	-3.0#	97	0.00
13	T	Acrolein	250.000	238.362	4.7	97	0.00
14	T	Allyl chloride	50.000	52.817	-5.6	98	0.00
15	T	Acrylonitrile	250.000	265.134	-6.1	102	0.00
16	T	Acetone	250.000	252.660	-1.1	105	0.00
17	T	Carbon Disulfide	50.000	51.765	-3.5	97	0.00
18	T	Methyl Acetate	50.000	59.461	-18.9	120	0.00
19	T	Methyl tert-butyl Ether	50.000	53.096	-6.2	101	0.00
20	T	Methylene Chloride	50.000	47.298	5.4	99	0.00
21	T	trans-1,2-Dichloroethene	50.000	51.552	-3.1	97	0.00
22	T	Diisopropyl ether	50.000	52.085	-4.2	98	0.00
23	T	Vinyl Acetate	250.000	253.098	-1.2	97	0.00
24	P	1,1-Dichloroethane	50.000	51.668	-3.3	97	0.00
25	T	2-Butanone	250.000	255.929	-2.4	103	0.00
26	T	2,2-Dichloropropane	50.000	52.191	-4.4	98	0.00
27	T	cis-1,2-Dichloroethene	50.000	52.479	-5.0	98	0.00
28	T	Bromochloromethane	50.000	52.305	-4.6	99	0.00
29	T	Tetrahydrofuran	250.000	264.847	-5.9	103	0.00
30	C	Chloroform	50.000	52.810	-5.6#	98	0.00
31	T	Cyclohexane	50.000	48.673	2.7	96	0.00
32	T	1,1,1-Trichloroethane	50.000	51.523	-3.0	98	0.00
33	S	1,2-Dichloroethane-d4	50.000	52.104	-4.2	99	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	98	0.00
35	S	Dibromofluoromethane	50.000	51.658	-3.3	100	0.00
36	T	1,1-Dichloropropene	50.000	50.457	-0.9	96	0.00
37	T	Ethyl Acetate	50.000	50.633	-1.3	100	0.00
38	T	Carbon Tetrachloride	50.000	50.543	-1.1	97	0.00
39	T	Methylcyclohexane	50.000	50.015	-0.0	96	0.00
40	TM	Benzene	50.000	51.696	-3.4	98	0.00
41	T	Methacrylonitrile	50.000	53.599	-7.2	104	0.02
42	TM	1,2-Dichloroethane	50.000	51.834	-3.7	99	0.00
43	T	Isopropyl Acetate	50.000	51.415	-2.8	101	0.00
44	TM	Trichloroethene	50.000	50.335	-0.7	96	0.00
45	C	1,2-Dichloropropane	50.000	51.417	-2.8#	99	0.00
46	T	Dibromomethane	50.000	51.423	-2.8	101	0.00
47	T	Bromodichloromethane	50.000	52.508	-5.0	100	0.00
48	T	Methyl methacrylate	50.000	51.357	-2.7	101	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022260.D
Acq On : 15 May 2025 13:20
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

Quant Time: May 16 01:47:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	1008.479	-0.8	103	0.00
50	S	Toluene-d8	50.000	51.229	-2.5	99	0.00
51	T	4-Methyl-2-Pentanone	250.000	261.463	-4.6	102	0.00
52	CM	Toluene	50.000	51.337	-2.7#	98	0.00
53	T	t-1,3-Dichloropropene	50.000	51.458	-2.9	99	0.00
54	T	cis-1,3-Dichloropropene	50.000	51.916	-3.8	99	0.00
55	T	1,1,2-Trichloroethane	50.000	51.142	-2.3	100	0.00
56	T	Ethyl methacrylate	50.000	50.639	-1.3	98	0.00
57	T	1,3-Dichloropropane	50.000	51.880	-3.8	100	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	271.104	-8.4	98	0.00
59	T	2-Hexanone	250.000	257.738	-3.1	103	0.00
60	T	Dibromochloromethane	50.000	52.425	-4.8	100	0.00
61	T	1,2-Dibromoethane	50.000	51.428	-2.9	100	0.00
62	S	4-Bromofluorobenzene	50.000	51.020	-2.0	100	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	99	0.00
64	T	Tetrachloroethene	50.000	46.905	6.2	91	0.00
65	PM	Chlorobenzene	50.000	49.827	0.3	97	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	49.656	0.7	97	0.00
67	C	Ethyl Benzene	50.000	50.100	-0.2#	97	0.00
68	T	m/p-Xylenes	100.000	101.087	-1.1	98	0.00
69	T	o-Xylene	50.000	50.682	-1.4	99	0.00
70	T	Styrene	50.000	50.471	-0.9	98	0.00
71	P	Bromoform	50.000	51.022	-2.0	102	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	99	0.00
73	T	Isopropylbenzene	50.000	49.964	0.1	98	0.00
74	T	N-amyl acetate	50.000	49.805	0.4	101	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	53.062	-6.1	107	0.00
76	T	1,2,3-Trichloropropane	50.000	53.564	-7.1	107	0.00
77	T	Bromobenzene	50.000	49.374	1.3	97	0.00
78	T	n-propylbenzene	50.000	50.296	-0.6	97	0.00
79	T	2-Chlorotoluene	50.000	50.130	-0.3	97	0.00
80	T	1,3,5-Trimethylbenzene	50.000	49.632	0.7	96	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	49.231	1.5	103	0.00
82	T	4-Chlorotoluene	50.000	50.661	-1.3	97	0.00
83	T	tert-Butylbenzene	50.000	49.715	0.6	97	0.00
84	T	1,2,4-Trimethylbenzene	50.000	50.535	-1.1	97	0.00
85	T	sec-Butylbenzene	50.000	50.000	0.0	95	0.00
86	T	p-Isopropyltoluene	50.000	50.219	-0.4	97	0.00
87	T	1,3-Dichlorobenzene	50.000	49.718	0.6	97	0.00
88	T	1,4-Dichlorobenzene	50.000	49.669	0.7	98	0.00
89	T	n-Butylbenzene	50.000	50.402	-0.8	95	0.00
90	T	Hexachloroethane	50.000	49.502	1.0	96	0.00
91	T	1,2-Dichlorobenzene	50.000	49.954	0.1	98	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	50.028	-0.1	102	0.00
93	T	1,2,4-Trichlorobenzene	50.000	48.794	2.4	94	0.00
94	T	Hexachlorobutadiene	50.000	47.770	4.5	92	0.00
95	T	Naphthalene	50.000	48.421	3.2	96	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022260.D
Acq On : 15 May 2025 13:20
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

Quant Time: May 16 01:47:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	48.060	3.9	94	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2118 SAS No.: Q2118 SDG No.: Q2118

Instrument ID: MSVOA_Y Calibration Date(s): 05/27/2025 05/27/2025

Heated Purge: (Y/N) Y Calibration Time(s): 08:50 10:44

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID: RRF005 = VY022421.D RRF010 = VY022422.D RRF020 = VY022423.D
RRF050 = VY022424.D RRF100 = VY022425.D RRF150 = VY022426.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Chloromethane	1.364	1.331	1.300	1.196	0.936	0.912	1.173	17.1
Vinyl Chloride	1.535	1.493	1.522	1.453	1.292	1.257	1.425	8.5
Bromomethane	1.261	1.281	1.397	1.275	1.213	1.345	1.295	5.1
Chloroethane	0.930	0.881	0.949	1.015	0.907	0.907	0.932	5
Trichlorofluoromethane	1.243	1.174	1.222	1.197	1.187	1.193	1.203	2.1
1,1,2-Trichlorotrifluoroethane	0.552	0.517	0.541	0.520	0.523	0.512	0.528	2.9
1,1-Dichloroethene	0.552	0.512	0.533	0.511	0.520	0.515	0.524	3
Acetone	0.094	0.090	0.081	0.085	0.086	0.083	0.087	5.6
Carbon Disulfide	1.672	1.675	1.707	1.653	1.672	1.650	1.672	1.2
Methyl tert-butyl Ether	1.353	1.359	1.357	1.386	1.445	1.445	1.391	3.1
Methylene Chloride	0.778	0.669	0.578	0.549	0.550	0.543	0.611	15.5
trans-1,2-Dichloroethene	0.595	0.556	0.555	0.561	0.582	0.582	0.572	2.9
1,1-Dichloroethane	1.000	0.986	1.035	1.027	1.062	1.056	1.028	2.9
2-Butanone	0.137	0.144	0.136	0.142	0.152	0.154	0.144	5.2
Carbon Tetrachloride	0.473	0.456	0.471	0.481	0.510	0.512	0.484	4.7
cis-1,2-Dichloroethene	0.655	0.647	0.650	0.652	0.684	0.685	0.662	2.6
Chloroform	0.966	0.970	1.023	1.026	1.052	1.038	1.013	3.5
1,1,1-Trichloroethane	0.900	0.894	0.916	0.913	0.952	0.940	0.919	2.5
Methylcyclohexane	0.611	0.602	0.603	0.614	0.638	0.636	0.618	2.6
Benzene	1.308	1.312	1.360	1.391	1.463	1.461	1.383	5
1,2-Dichloroethane	0.348	0.348	0.360	0.369	0.383	0.384	0.365	4.5
Trichloroethene	0.334	0.325	0.344	0.343	0.357	0.347	0.342	3.3
1,2-Dichloropropane	0.321	0.307	0.318	0.323	0.342	0.339	0.325	4
Bromodichloromethane	0.452	0.449	0.449	0.464	0.493	0.494	0.467	4.5
4-Methyl-2-Pentanone	0.185	0.197	0.198	0.218	0.237	0.242	0.213	10.8
Toluene	0.782	0.805	0.842	0.868	0.929	0.957	0.864	7.9
t-1,3-Dichloropropene	0.400	0.414	0.416	0.434	0.472	0.473	0.435	7.1
cis-1,3-Dichloropropene	0.477	0.480	0.504	0.508	0.549	0.547	0.511	6.1
1,1,2-Trichloroethane	0.219	0.216	0.226	0.229	0.243	0.243	0.229	5.1
2-Hexanone	0.121	0.125	0.129	0.145	0.157	0.159	0.140	12

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2118 SAS No.: Q2118 SDG No.: Q2118

Instrument ID: MSVOA_Y Calibration Date(s): 05/27/2025 05/27/2025

Heated Purge: (Y/N) Y Calibration Time(s): 08:50 10:44

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID: RRF005 = VY022421.D RRF010 = VY022422.D RRF020 = VY022423.D
RRF050 = VY022424.D RRF100 = VY022425.D RRF150 = VY022426.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Dibromochloromethane	0.258	0.274	0.284	0.302	0.320	0.321	0.293	8.7
Tetrachloroethene	0.433	0.417	0.433	0.429	0.429	0.413	0.426	2.1
Chlorobenzene	1.020	1.000	1.051	1.067	1.132	1.127	1.066	5.1
Ethyl Benzene	1.823	1.828	1.920	1.980	2.142	2.185	1.980	7.8
m/p-Xylenes	0.698	0.660	0.723	0.756	0.825	0.841	0.751	9.5
o-Xylene	0.654	0.637	0.673	0.709	0.768	0.792	0.705	8.9
Styrene	1.037	1.020	1.117	1.197	1.317	1.359	1.175	12.1
Bromoform	0.169	0.176	0.184	0.192	0.206	0.210	0.189	8.6
Isopropylbenzene	3.863	3.741	3.946	3.871	4.105	4.086	3.935	3.6
1,1,2,2-Tetrachloroethane	0.623	0.574	0.604	0.615	0.652	0.653	0.620	4.8
1,3-Dichlorobenzene	1.587	1.558	1.674	1.695	1.836	1.874	1.704	7.5
1,4-Dichlorobenzene	1.596	1.527	1.617	1.642	1.707	1.687	1.629	4
1,2-Dichlorobenzene	1.383	1.332	1.431	1.416	1.495	1.482	1.423	4.3
1,2-Dichloroethane-d4	0.507	0.525	0.517	0.532	0.541	0.538	0.527	2.5
Dibromofluoromethane	0.287	0.281	0.283	0.290	0.309	0.308	0.293	4.3
Toluene-d8	1.159	1.133	1.168	1.176	1.274	1.251	1.194	4.7
4-Bromofluorobenzene	0.377	0.331	0.345	0.355	0.382	0.376	0.361	5.7

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Response Factor Report GCVOA_Y

Method Path : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\
Method File : 82Y052725S.M
Title : SW846 8260
Last Update : Wed May 28 10:34:06 2025
Response Via : Initial Calibration

Calibration Files
5 =VY022421.D 10 =VY022422.D 20 =VY022423.D 50 =VY022424.D 100 =VY022425.D 150 =VY022426.D

		Compound	5	10	20	50	100	150	Avg	%RSD
1)	I	Pentafluorobenzene	----------ISTD----------							
2)	T	Dichlorodifluo...	0.544	0.509	0.526	0.423	0.430	0.429	0.477	11.57
3)	P	Chloromethane	1.364	1.331	1.300	1.196	0.936	0.912	1.173	17.14
4)	C	Vinyl Chloride	1.535	1.493	1.522	1.453	1.292	1.257	1.425	8.46#
5)	T	Bromomethane	1.261	1.281	1.397	1.275	1.213	1.345	1.295	5.05
6)	T	Chloroethane	0.930	0.881	0.949	1.015	0.907	0.907	0.931	5.04
7)	T	Trichlorofluor...	1.243	1.174	1.222	1.197	1.187	1.193	1.203	2.11
8)	T	Diethyl Ether	0.276	0.274	0.271	0.277	0.285	0.281	0.277	1.77
9)	T	1,1,2-Trichlor...	0.552	0.517	0.541	0.520	0.523	0.512	0.528	2.94
10)	T	Methyl Iodide	0.494	0.524	0.604	0.647	0.666	0.637	0.595	11.82
11)	T	Tert butyl alc...	0.037	0.038	0.036	0.036	0.038	0.038	0.037	3.17
12)	CM	1,1-Dichloroet...	0.552	0.512	0.533	0.511	0.520	0.515	0.524	3.03#
13)	T	Acrolein	0.052	0.054	0.056	0.057	0.059	0.057	0.056	4.54
14)	T	Allyl chloride	0.785	0.752	0.796	0.786	0.801	0.809	0.788	2.53
15)	T	Acrylonitrile	0.107	0.110	0.109	0.111	0.118	0.116	0.112	3.78
16)	T	Acetone	0.094	0.090	0.081	0.085	0.086	0.083	0.087	5.57
17)	T	Carbon Disulfide	1.672	1.675	1.707	1.653	1.672	1.650	1.672	1.22
18)	T	Methyl Acetate	0.288	0.319	0.296	0.308	0.351	0.383	0.324	11.15
19)	T	Methyl tert-bu...	1.353	1.359	1.357	1.386	1.445	1.445	1.391	3.14
20)	T	Methylene Chlo...	0.778	0.669	0.578	0.549	0.550	0.543	0.611	15.46
21)	T	trans-1,2-Dich...	0.595	0.556	0.555	0.561	0.582	0.582	0.572	2.94
22)	T	Diisopropyl ether	1.710	1.697	1.732	1.726	1.781	1.789	1.739	2.18
23)	T	Vinyl Acetate	0.970	0.955	0.997	1.004	1.035	1.030	0.999	3.19
24)	P	1,1-Dichloroet...	1.000	0.986	1.035	1.027	1.062	1.056	1.028	2.95
25)	T	2-Butanone	0.137	0.144	0.136	0.142	0.152	0.154	0.144	5.16
26)	T	2,2-Dichloropr...	0.937	0.900	0.937	0.921	0.948	0.940	0.931	1.86
27)	T	cis-1,2-Dichlo...	0.655	0.647	0.650	0.652	0.684	0.685	0.662	2.62
28)	T	Bromochloromet...	0.400	0.426	0.435	0.438	0.439	0.437	0.429	3.54
29)	T	Tetrahydrofuran	0.095	0.094	0.092	0.095	0.100	0.101	0.096	3.74
30)	C	Chloroform	0.966	0.970	1.023	1.026	1.052	1.038	1.013	3.54#
31)	T	Cyclohexane	1.220	1.044	0.997	0.939	0.947	0.931	1.013	10.90
32)	T	1,1,1-Trichlor...	0.900	0.894	0.916	0.913	0.952	0.940	0.919	2.48
33)	S	1,2-Dichloroet...	0.507	0.525	0.517	0.532	0.541	0.538	0.527	2.51
34)	I	1,4-Difluorobenzene	----------ISTD----------							
35)	S	Dibromofluorom...	0.287	0.281	0.283	0.290	0.309	0.308	0.293	4.26
36)	T	1,1-Dichloropr...	0.472	0.437	0.455	0.460	0.483	0.481	0.465	3.77
37)	T	Ethyl Acetate	0.197	0.186	0.192	0.200	0.208	0.202	0.197	3.90
38)	T	Carbon Tetrach...	0.473	0.456	0.471	0.481	0.510	0.512	0.484	4.71
39)	T	Methylcyclohexane	0.611	0.602	0.603	0.614	0.638	0.636	0.618	2.58
40)	TM	Benzene	1.308	1.312	1.360	1.391	1.463	1.461	1.383	4.99
41)	T	Methacrylonitrile	0.122	0.108	0.112	0.117	0.128	0.132	0.120	7.79
42)	TM	1,2-Dichloroet...	0.348	0.348	0.360	0.369	0.383	0.384	0.365	4.48
43)	T	Isopropyl Acetate	0.402	0.419	0.420	0.436	0.459	0.453	0.432	5.03
44)	TM	Trichloroethene	0.334	0.325	0.344	0.343	0.357	0.347	0.342	3.26
45)	C	1,2-Dichloropr...	0.321	0.307	0.318	0.323	0.342	0.339	0.325	4.03#
46)	T	Dibromomethane	0.180	0.170	0.174	0.182	0.191	0.193	0.181	5.11
47)	T	Bromodichlorom...	0.452	0.449	0.449	0.464	0.493	0.494	0.467	4.55
48)	T	Methyl methacr...	0.185	0.185	0.192	0.200	0.217	0.223	0.200	8.06
49)	T	1,4-Dioxane	0.002	0.002	0.002	0.002	0.002	0.002	0.002	7.02
50)	S	Toluene-d8	1.159	1.133	1.168	1.176	1.274	1.251	1.194	4.68
51)	T	4-Methyl-2-Pen...	0.185	0.197	0.198	0.218	0.237	0.242	0.213	10.84
52)	CM	Toluene	0.782	0.805	0.842	0.868	0.929	0.957	0.864	7.95#
53)	T	t-1,3-Dichloro...	0.400	0.414	0.416	0.434	0.472	0.473	0.435	7.13
54)	T	cis-1,3-Dichlo...	0.477	0.480	0.504	0.508	0.549	0.547	0.511	6.09
55)	T	1,1,2-Trichlor...	0.219	0.216	0.226	0.229	0.243	0.243	0.229	5.06
56)	T	Ethyl methacry...	0.280	0.305	0.315	0.340	0.365	0.369	0.329	10.69

Method Path : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\
Method File : 82Y052725S.M

57)	T	1,3-Dichloropr...	0.379	0.388	0.402	0.405	0.428	0.424	0.404	4.77
58)	T	2-Chloroethyl ...	0.143	0.152	0.153	0.167	0.184	0.186	0.164	10.75
59)	T	2-Hexanone	0.121	0.125	0.129	0.145	0.157	0.159	0.140	11.95
60)	T	Dibromochlorom...	0.258	0.274	0.284	0.302	0.320	0.321	0.293	8.68
61)	T	1,2-Dibromoethane	0.199	0.189	0.207	0.215	0.223	0.225	0.210	6.76
62)	S	4-Bromofluorob...	0.377	0.331	0.345	0.355	0.382	0.376	0.361	5.73
63)	I	Chlorobenzene-d5	----------ISTD----------							
64)	T	Tetrachloroethene	0.433	0.417	0.433	0.429	0.429	0.413	0.426	2.06
65)	PM	Chlorobenzene	1.020	1.000	1.051	1.067	1.132	1.127	1.066	5.11
66)	T	1,1,1,2-Tetrac...	0.326	0.328	0.350	0.369	0.392	0.402	0.361	8.94
67)	C	Ethyl Benzene	1.823	1.828	1.920	1.980	2.142	2.185	1.980	7.81#
68)	T	m/p-Xylenes	0.698	0.660	0.723	0.756	0.825	0.841	0.751	9.51
69)	T	o-Xylene	0.654	0.637	0.673	0.709	0.768	0.792	0.705	8.93
70)	T	Styrene	1.037	1.020	1.117	1.197	1.317	1.359	1.175	12.09
71)	P	Bromoform	0.169	0.176	0.184	0.192	0.206	0.210	0.189	8.64
72)	I	1,4-Dichlorobenzen...	----------ISTD----------							
73)	T	Isopropylbenzene	3.863	3.741	3.946	3.871	4.105	4.086	3.935	3.57
74)	T	N-amyl acetate	0.883	0.878	0.942	1.000	1.050	1.025	0.963	7.64
75)	P	1,1,2,2-Tetrac...	0.623	0.574	0.604	0.615	0.652	0.653	0.620	4.83
76)	T	1,2,3-Trichlor...	0.469	0.528	0.498	0.491	0.507	0.511	0.501	3.96
77)	T	Bromobenzene	0.804	0.812	0.858	0.851	0.872	0.885	0.847	3.84
78)	T	n-propylbenzene	4.586	4.467	4.728	4.709	4.952	4.893	4.723	3.86
79)	T	2-Chlorotoluene	2.557	2.426	2.525	2.518	2.664	2.649	2.556	3.48
80)	T	1,3,5-Trimethy...	2.917	2.870	3.066	3.079	3.258	3.258	3.075	5.33
81)	T	trans-1,4-Dich...	0.215	0.213	0.220	0.215	0.230	0.236	0.221	4.25
82)	T	4-Chlorotoluene	2.528	2.463	2.651	2.619	2.773	2.763	2.633	4.70
83)	T	tert-Butylbenzene	2.751	2.560	2.775	2.756	2.918	2.909	2.778	4.70
84)	T	1,2,4-Trimethy...	2.908	2.856	3.038	3.114	3.306	3.342	3.094	6.49
85)	T	sec-Butylbenzene	4.035	3.787	4.069	4.142	4.356	4.331	4.120	5.11
86)	T	p-Isopropyltol...	3.194	3.073	3.336	3.471	3.764	3.804	3.440	8.66
87)	T	1,3-Dichlorobe...	1.587	1.558	1.674	1.695	1.836	1.874	1.704	7.53
88)	T	1,4-Dichlorobe...	1.596	1.527	1.617	1.642	1.707	1.687	1.629	4.01
89)	T	n-Butylbenzene	3.091	2.854	3.188	3.331	3.443	3.447	3.226	7.14
90)	T	Hexachloroethane	0.679	0.637	0.680	0.689	0.717	0.706	0.685	4.04
91)	T	1,2-Dichlorobe...	1.383	1.332	1.431	1.416	1.495	1.482	1.423	4.29
92)	T	1,2-Dibromo-3-...	0.103	0.093	0.096	0.093	0.093	0.096	0.096	3.80
93)	T	1,2,4-Trichlor...	0.714	0.724	0.771	0.828	0.842	0.856	0.789	7.81
94)	T	Hexachlorobuta...	0.425	0.371	0.397	0.424	0.436	0.432	0.414	6.09
95)	T	Naphthalene	1.236	1.295	1.376	1.554	1.619	1.671	1.459	12.38
96)	T	1,2,3-Trichlor...	0.575	0.554	0.644	0.684	0.703	0.722	0.647	10.66

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022421.D
Acq On : 27 May 2025 08:50
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

Quant Time: May 28 09:38:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 09:30:53 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	7.713	168	266668	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	8.622	114	453411	50.000	ug/l		0.00
63) Chlorobenzene-d5	11.420	117	366267	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	13.352	152	162324	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	8.067	65	13513	4.811	ug/l		0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	9.620%#			
35) Dibromofluoromethane	7.640	113	13007	4.898	ug/l		0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	9.800%#			
50) Toluene-d8	10.115	98	52564	4.856	ug/l		0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	9.720%#			
62) 4-Bromofluorobenzene	12.408	95	17111	5.226	ug/l		0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	10.460%#			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.867	85	14514	5.705	ug/l		97
3) Chloromethane	2.068	50	36383	5.814	ug/l		99
4) Vinyl Chloride	2.208	62	40931	5.384	ug/l		100
5) Bromomethane	2.604	94	33633	4.868	ug/l		95
6) Chloroethane	2.739	64	24812	4.994	ug/l		99
7) Trichlorofluoromethane	3.062	101	33151	5.168	ug/l		96
8) Diethyl Ether	3.464	74	7356	4.974	ug/l		99
9) 1,1,2-Trichlorotrifluo...	3.824	101	14725	5.233	ug/l		98
10) Methyl Iodide	4.013	142	13178	4.151	ug/l		96
11) Tert butyl alcohol	4.872	59	4995m	25.228	ug/l		
12) 1,1-Dichloroethene	3.799	96	14718	5.268	ug/l		94
13) Acrolein	3.665	56	6888	23.219	ug/l	#	77
14) Allyl chloride	4.397	41	20931	4.980	ug/l		95
15) Acrylonitrile	5.080	53	14224	23.859	ug/l		96
16) Acetone	3.885	43	12519	27.123	ug/l	#	89
17) Carbon Disulfide	4.110	76	44596	5.002	ug/l		96
18) Methyl Acetate	4.391	43	7671	4.437	ug/l		93
19) Methyl tert-butyl Ether	5.128	73	36078	4.864	ug/l		98
20) Methylene Chloride	4.622	84	20751	6.367	ug/l		94
21) trans-1,2-Dichloroethene	5.128	96	15870	5.203	ug/l		91
22) Diisopropyl ether	6.025	45	45596	4.916	ug/l		95
23) Vinyl Acetate	5.970	43	129326	24.282	ug/l		99
24) 1,1-Dichloroethane	5.927	63	26673	4.866	ug/l		97
25) 2-Butanone	6.909	43	18294	23.799	ug/l		97
26) 2,2-Dichloropropane	6.896	77	24997	5.037	ug/l		99
27) cis-1,2-Dichloroethene	6.902	96	17459	4.944	ug/l		97
28) Bromochloromethane	7.250	49	10658	4.657	ug/l	#	98
29) Tetrahydrofuran	7.274	42	12618	24.613	ug/l		99
30) Chloroform	7.433	83	25766	4.771	ug/l		99
31) Cyclohexane	7.713	56	32546	6.024	ug/l	#	81
32) 1,1,1-Trichloroethane	7.622	97	23999	4.896	ug/l		99
36) 1,1-Dichloropropene	7.847	75	21399	5.079	ug/l		98
37) Ethyl Acetate	6.988	43	8953	5.000	ug/l		97
38) Carbon Tetrachloride	7.829	117	21453	4.888	ug/l		99
39) Methylcyclohexane	9.115	83	27716	4.948	ug/l		98
40) Benzene	8.085	78	59324	4.732	ug/l		98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022421.D
Acq On : 27 May 2025 08:50
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 28 09:38:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 09:30:53 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.238	41	5545m	2.353	ug/l		
42) 1,2-Dichloroethane	8.164	62	15776	4.764	ug/l		98
43) Isopropyl Acetate	8.201	43	18244	4.662	ug/l		98
44) Trichloroethene	8.872	130	15132	4.882	ug/l		87
45) 1,2-Dichloropropane	9.146	63	14536	4.935	ug/l		95
46) Dibromomethane	9.237	93	8142	4.948	ug/l		94
47) Bromodichloromethane	9.426	83	20477	4.839	ug/l		94
48) Methyl methacrylate	9.225	41	8390	4.619	ug/l		95
49) 1,4-Dioxane	9.256	88	1711	94.135	ug/l	#	80
51) 4-Methyl-2-Pentanone	10.006	43	42047	21.778	ug/l		95
52) Toluene	10.176	92	35452	4.527	ug/l		99
53) t-1,3-Dichloropropene	10.396	75	18117	4.596	ug/l		100
54) cis-1,3-Dichloropropene	9.865	75	21634	4.671	ug/l		98
55) 1,1,2-Trichloroethane	10.579	97	9913	4.765	ug/l		92
56) Ethyl methacrylate	10.444	69	12714	4.258	ug/l		94
57) 1,3-Dichloropropane	10.725	76	17193	4.689	ug/l		92
58) 2-Chloroethyl Vinyl ether	9.719	63	32506	21.845	ug/l		96
59) 2-Hexanone	10.768	43	27506	21.739	ug/l		99
60) Dibromochloromethane	10.914	129	11708	4.405	ug/l		95
61) 1,2-Dibromoethane	11.024	107	9019	4.739	ug/l		99
64) Tetrachloroethene	10.652	164	15876	5.090	ug/l		94
65) Chlorobenzene	11.444	112	37368	4.785	ug/l		97
66) 1,1,1,2-Tetrachloroethane	11.524	131	11929	4.508	ug/l		95
67) Ethyl Benzene	11.524	91	66757	4.603	ug/l		96
68) m/p-Xylenes	11.633	106	51109	9.296	ug/l		96
69) o-Xylene	11.956	106	23941	4.633	ug/l		98
70) Styrene	11.975	104	37982	4.414	ug/l		98
71) Bromoform	12.139	173	6180	4.459	ug/l	#	99
73) Isopropylbenzene	12.255	105	62701	4.908	ug/l		99
74) N-amyl acetate	12.072	43	14329	4.584	ug/l		96
75) 1,1,2,2-Tetrachloroethane	12.511	83	10107	5.021	ug/l		96
76) 1,2,3-Trichloropropane	12.554	75	7617m	2.848	ug/l		
77) Bromobenzene	12.536	156	13050	4.747	ug/l		98
78) n-propylbenzene	12.597	91	74444	4.856	ug/l		100
79) 2-Chlorotoluene	12.682	91	41511	5.002	ug/l		99
80) 1,3,5-Trimethylbenzene	12.743	105	47346	4.743	ug/l		98
81) trans-1,4-Dichloro-2-b...	12.304	75	3492	4.857	ug/l		97
82) 4-Chlorotoluene	12.779	91	41039	4.801	ug/l		97
83) tert-Butylbenzene	12.999	119	44656	4.951	ug/l		98
84) 1,2,4-Trimethylbenzene	13.048	105	47206	4.699	ug/l		98
85) sec-Butylbenzene	13.182	105	65492	4.897	ug/l		100
86) p-Isopropyltoluene	13.298	119	51853	4.643	ug/l		99
87) 1,3-Dichlorobenzene	13.292	146	25760	4.657	ug/l		99
88) 1,4-Dichlorobenzene	13.371	146	25910	4.899	ug/l		92
89) n-Butylbenzene	13.621	91	50178	4.792	ug/l		98
90) Hexachloroethane	13.883	117	11019	4.958	ug/l		99
91) 1,2-Dichlorobenzene	13.663	146	22457	4.860	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.279	75	1667	5.360	ug/l		82
93) 1,2,4-Trichlorobenzene	14.925	180	11591	4.525	ug/l		96
94) Hexachlorobutadiene	15.029	225	6893	5.128	ug/l		97
95) Naphthalene	15.151	128	20065	4.237	ug/l		98
96) 1,2,3-Trichlorobenzene	15.334	180	9338	4.445	ug/l		96

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022421.D
Acq On : 27 May 2025 08:50
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

Quant Time: May 28 09:38:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 09:30:53 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022421.D
Acq On : 27 May 2025 08:50
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 28 09:38:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 09:30:53 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

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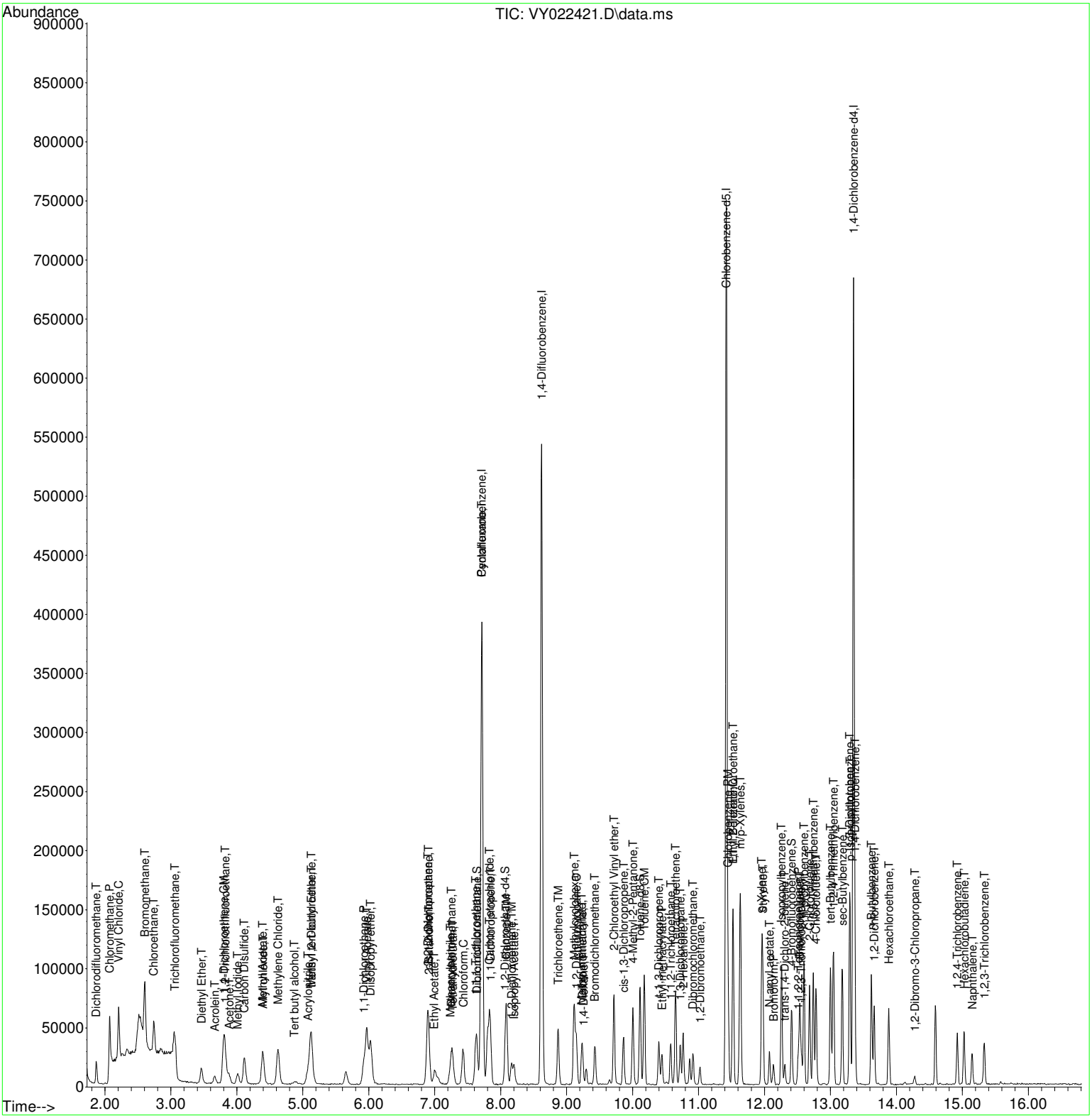
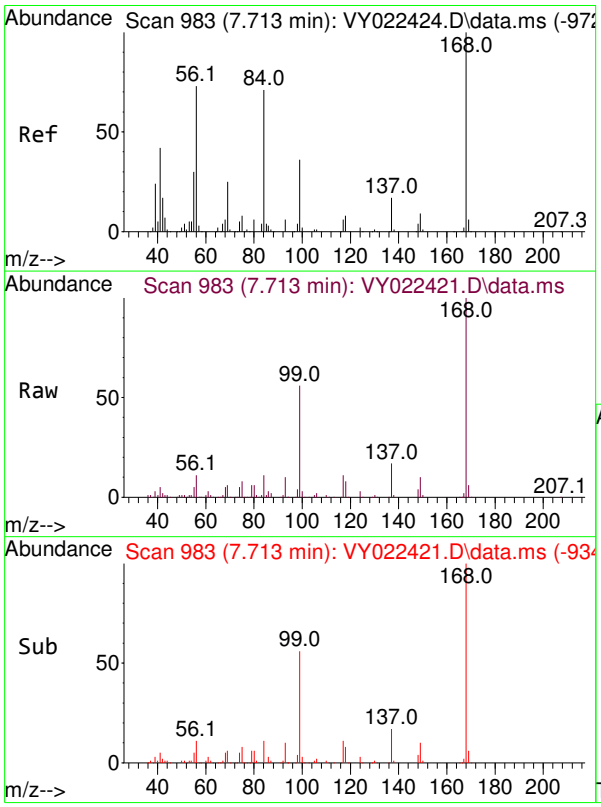
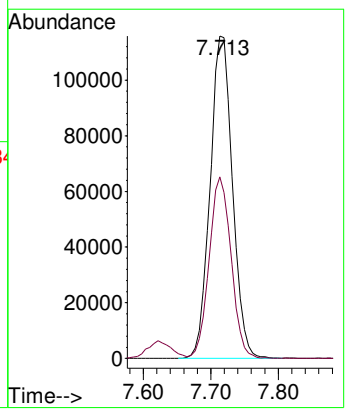




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion:168 Resp: 26666

Ion	Ratio	Lower	Upper
168	100		
99	56.2	44.7	67.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Amit Patel 05/28/2025
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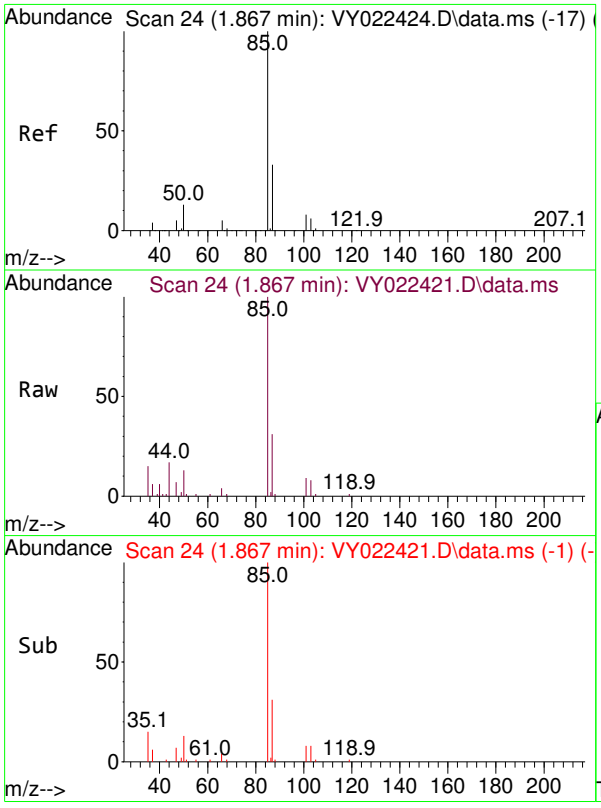
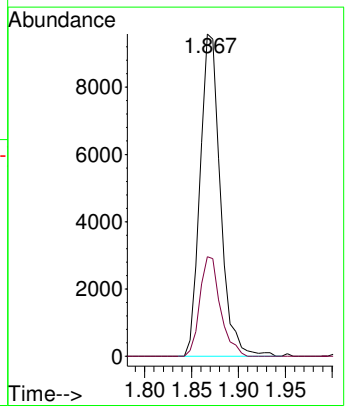
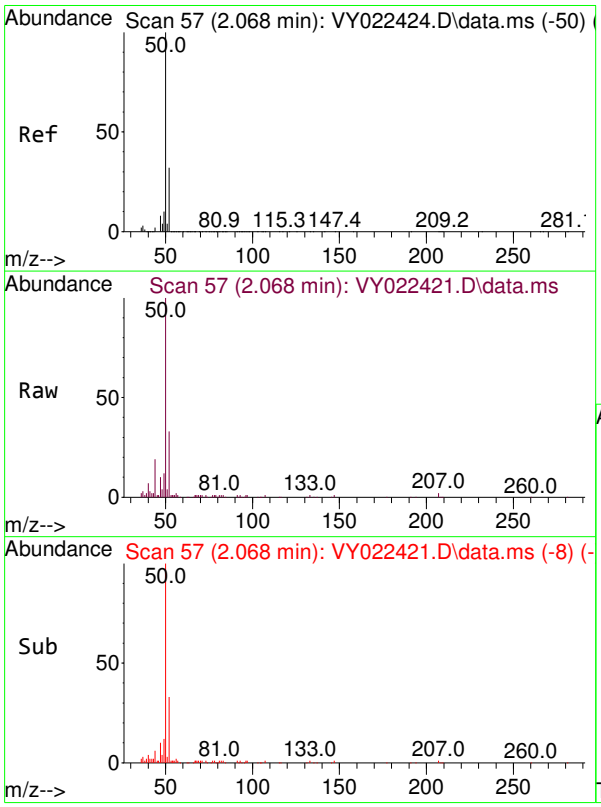


#2
Dichlorodifluoromethane
Concen: 5.705 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.000 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 85 Resp: 14514

Ion	Ratio	Lower	Upper
85	100		
87	30.9	16.4	49.2





#3
Chloromethane
Concen: 5.814 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 50 Resp: 3638

Ion	Ratio	Lower	Upper
50	100		
52	32.7	25.5	38.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Amit Patel 05/28/2025
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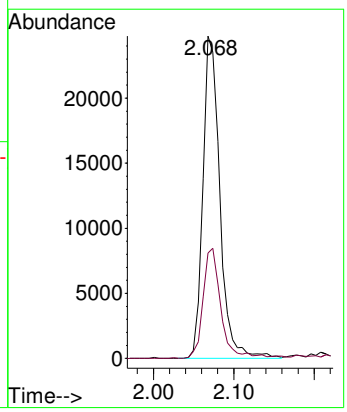
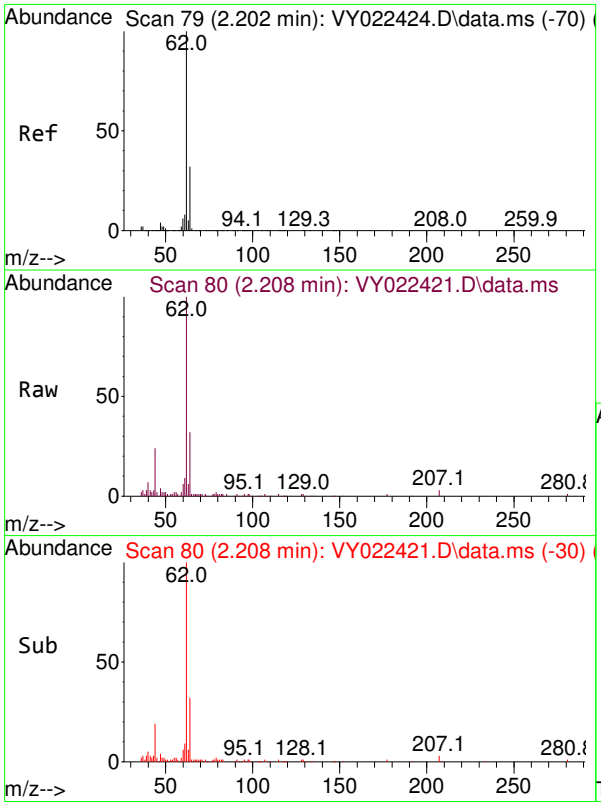
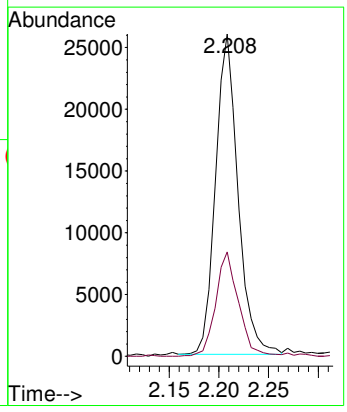


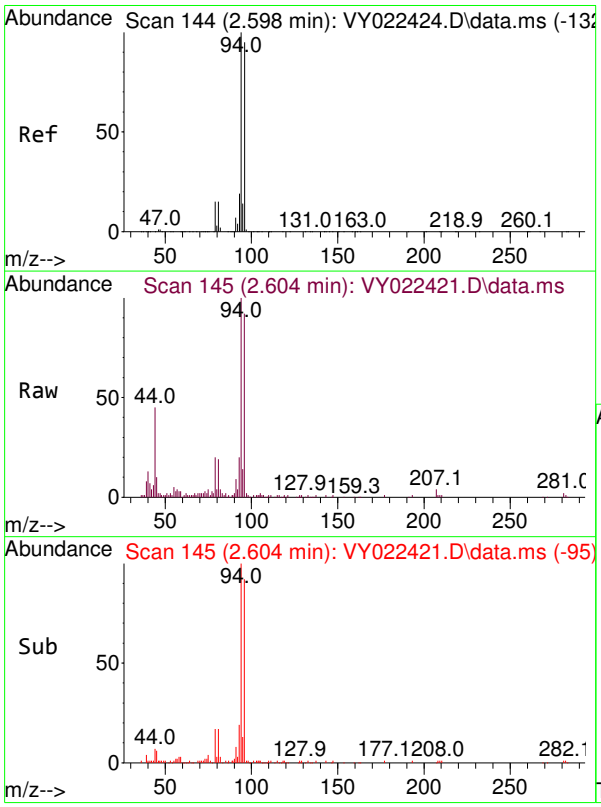


#4
Vinyl Chloride
Concen: 5.384 ug/l
RT: 2.208 min Scan# 80
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 62 Resp: 40931

Ion	Ratio	Lower	Upper
62	100		
64	32.6	26.0	39.0





#5
Bromomethane
Concen: 4.868 ug/l
RT: 2.604 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

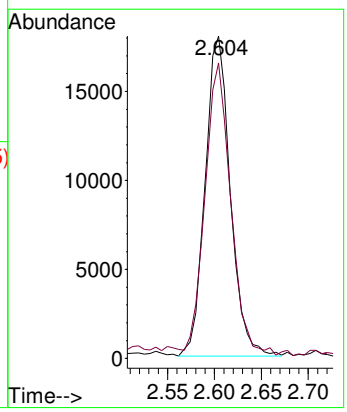
Tgt Ion: 94 Resp: 3363

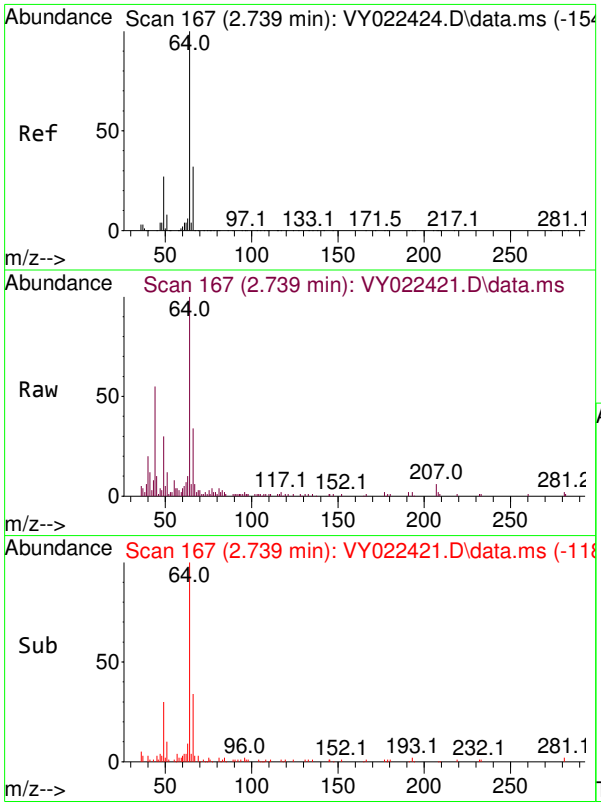
Ion	Ratio	Lower	Upper
94	100		
96	90.3	76.0	114.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

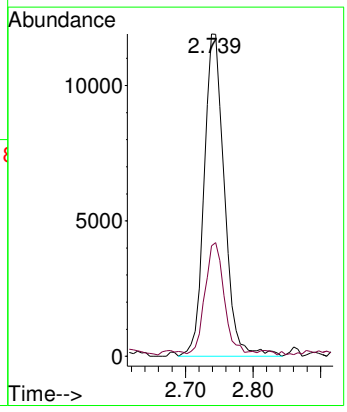


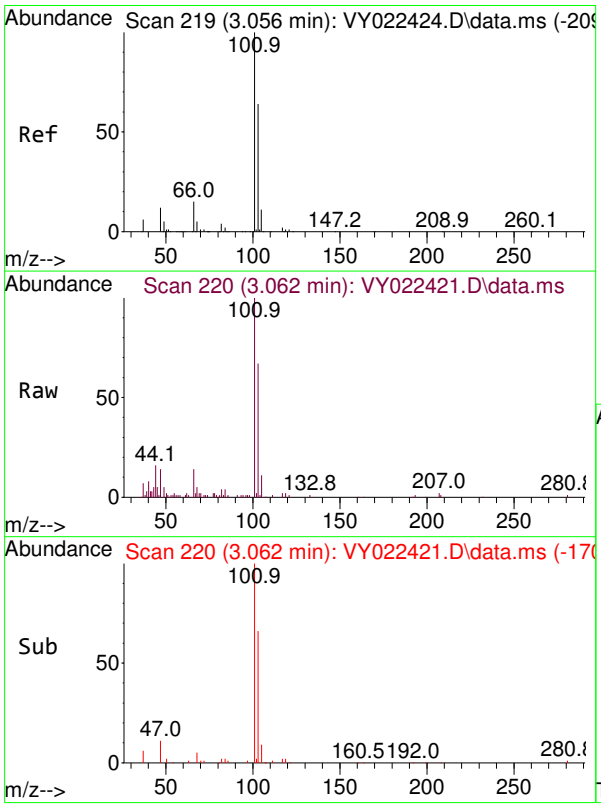


#6
Chloroethane
Concen: 4.994 ug/l
RT: 2.739 min Scan# 167
Delta R.T. 0.000 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 64 Resp: 24812

Ion	Ratio	Lower	Upper
64	100		
66	32.8	25.9	38.9





#7
Trichlorofluoromethane
Concen: 5.168 ug/l
RT: 3.062 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

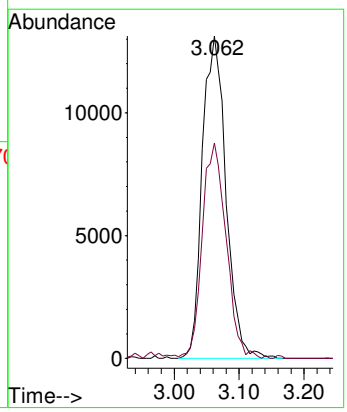
Tgt Ion:101 Resp: 3315

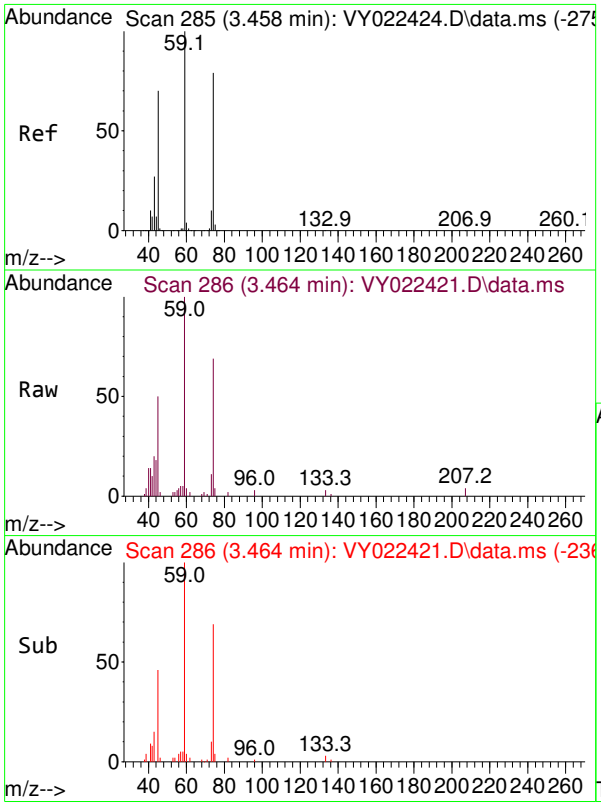
Ion	Ratio	Lower	Upper
101	100		
103	66.3	50.9	76.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

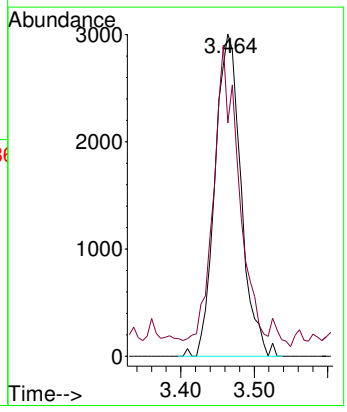


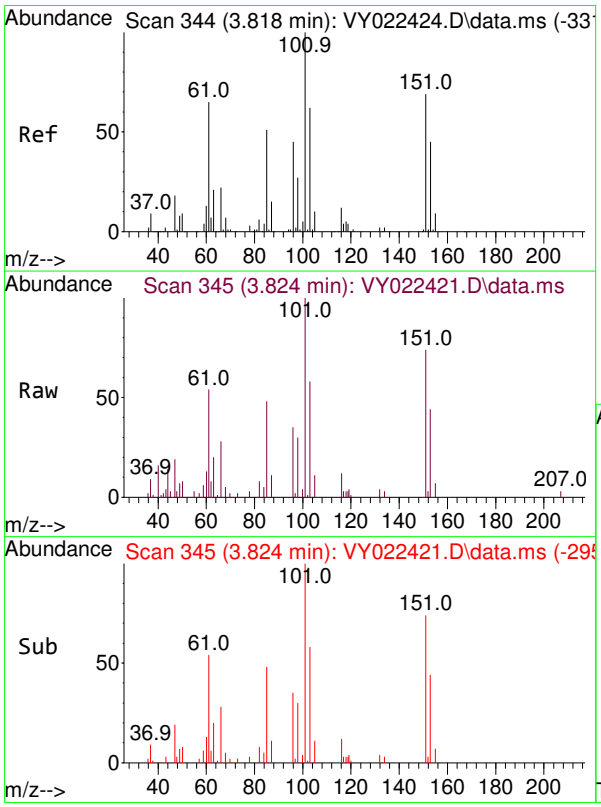


#8
Diethyl Ether
Concen: 4.974 ug/l
RT: 3.464 min Scan# 286
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 74 Resp: 7356

Ion	Ratio	Lower	Upper
74	100		
45	91.1	44.9	134.5





#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.233 ug/l
RT: 3.824 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion:101 Resp: 1472

Ion	Ratio	Lower	Upper
101	100		
85	48.1	39.2	58.8
151	75.6	58.8	88.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Amit Patel 05/28/2025
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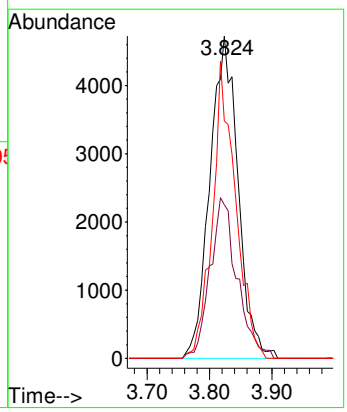
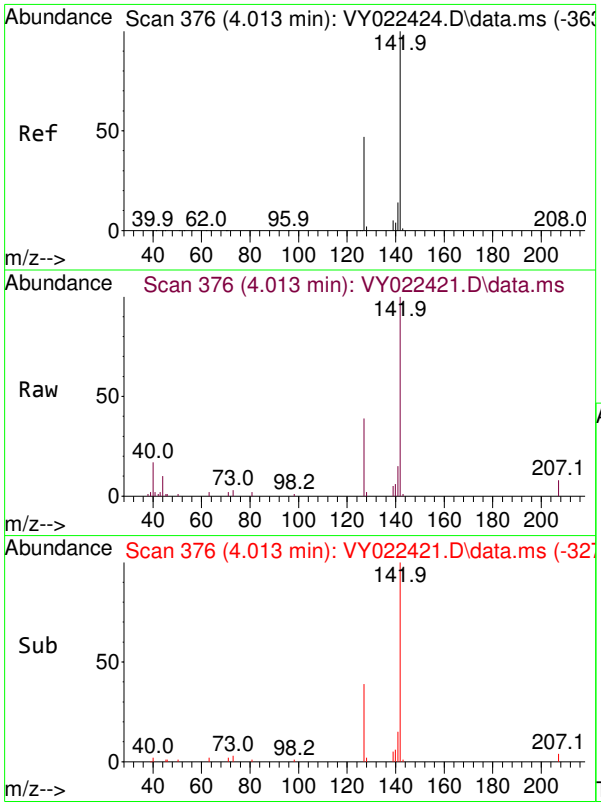
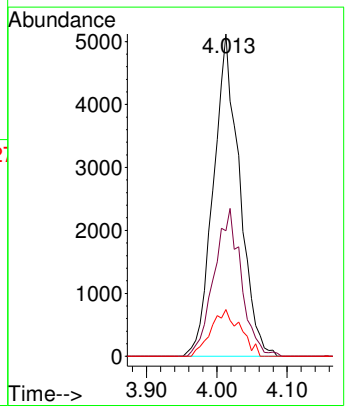


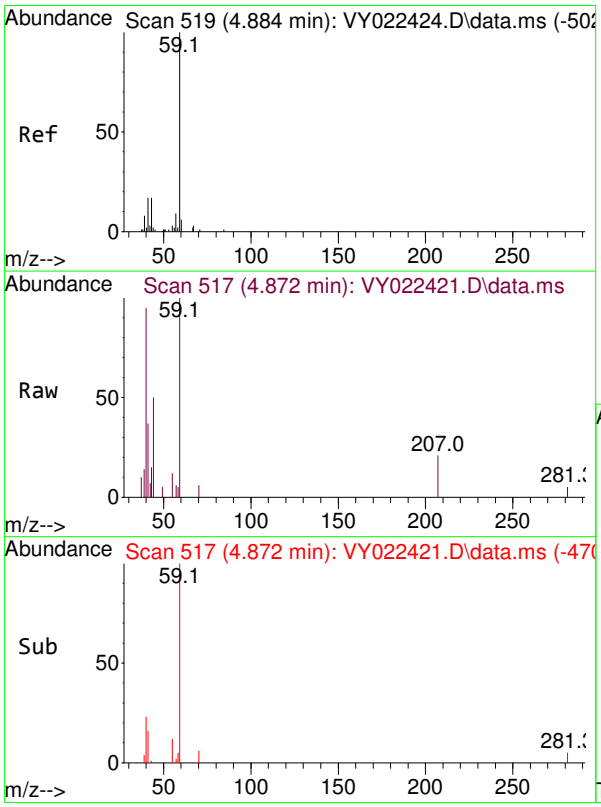


#10
Methyl Iodide
Concen: 4.151 ug/l
RT: 4.013 min Scan# 376
Delta R.T. 0.000 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion:142 Resp: 13178

Ion	Ratio	Lower	Upper
142	100		
127	48.0	36.2	54.4
141	16.4	11.6	17.4

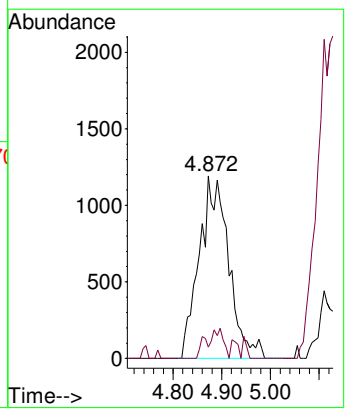




#11
Tert butyl alcohol
Concen: 25.228 ug/l m
RT: 4.872 min Scan# 5
Delta R.T. -0.012 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 59 Resp: 499

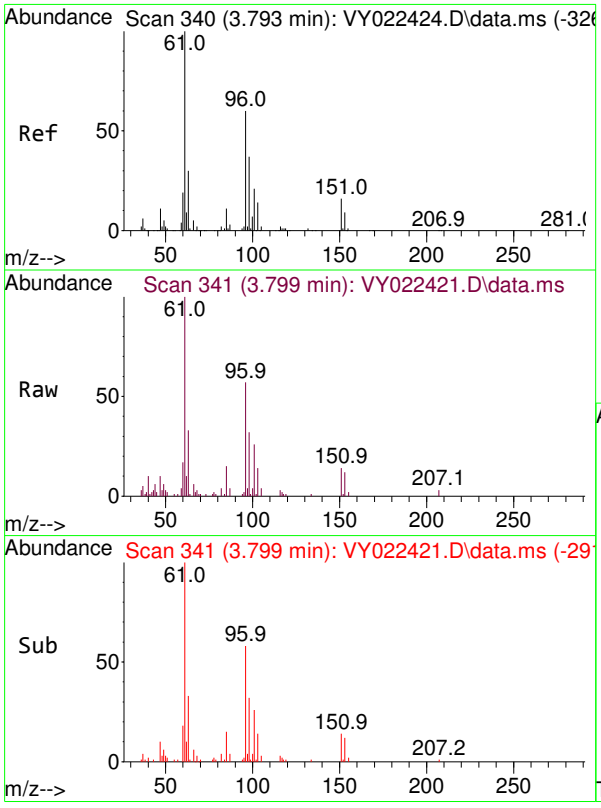
Ion	Ratio	Lower	Upper
59	100		
57	0.0	9.1	13.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

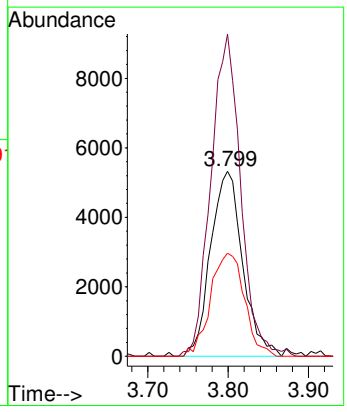
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

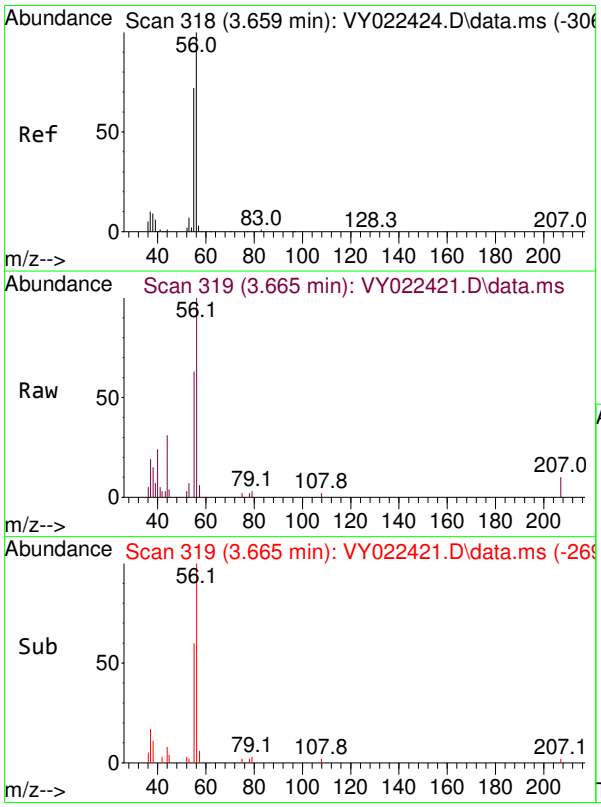


#12
1,1-Dichloroethene
Concen: 5.268 ug/l
RT: 3.799 min Scan# 341
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 96 Resp: 14718

Ion	Ratio	Lower	Upper
96	100		
61	174.1	134.1	201.1
98	55.7	50.2	75.2





#13
Acrolein
Concen: 23.219 ug/l
RT: 3.665 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 56 Resp: 688

Ion	Ratio	Lower	Upper
56	100		
55	89.6	56.5	84.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Amit Patel 05/28/2025
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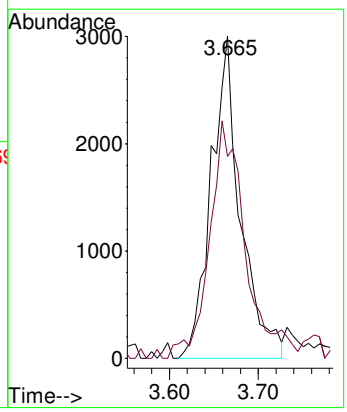
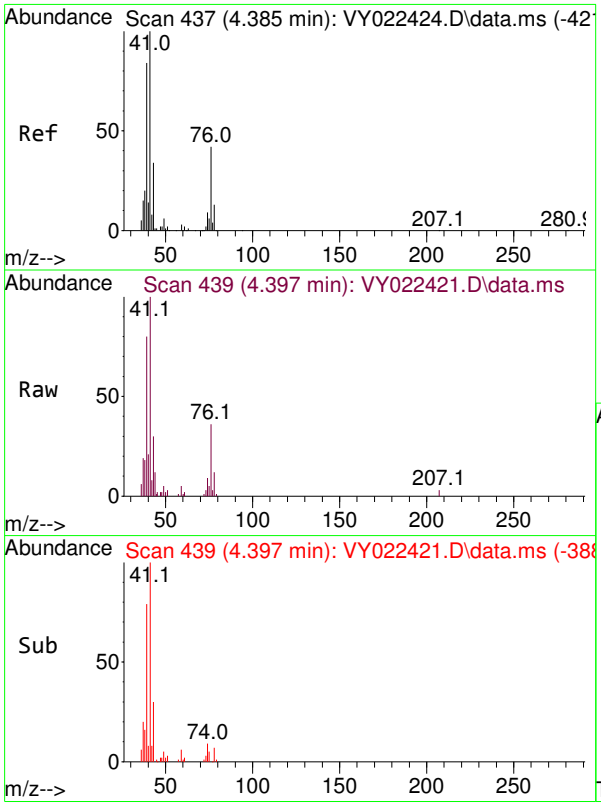
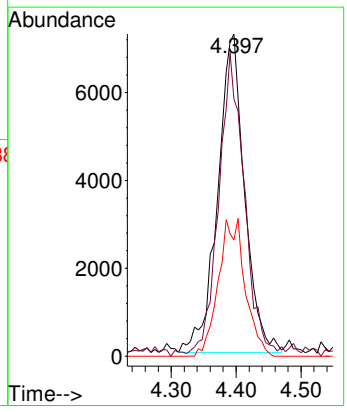


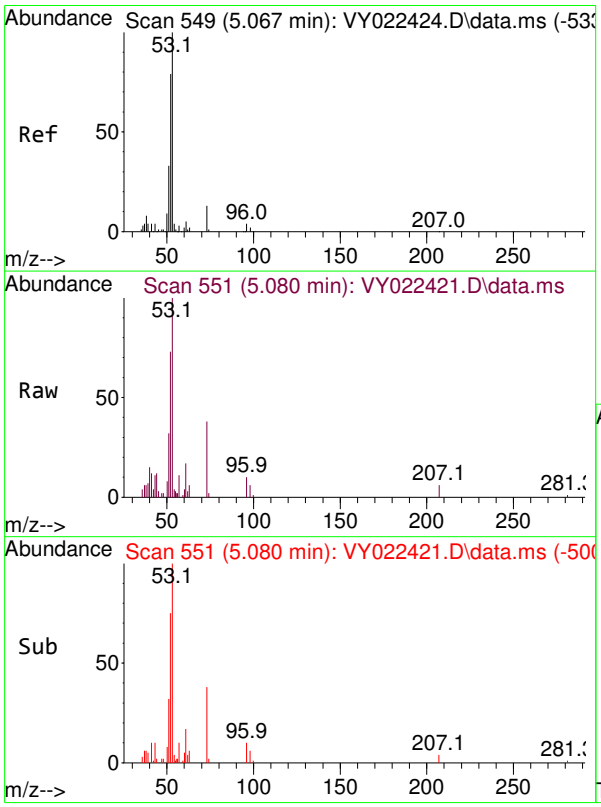


#14
Allyl chloride
Concen: 4.980 ug/l
RT: 4.397 min Scan# 439
Delta R.T. 0.012 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 41 Resp: 20931

Ion	Ratio	Lower	Upper
41	100		
39	89.3	66.6	100.0
76	42.7	33.7	50.5





#15
Acrylonitrile
Concen: 23.859 ug/l
RT: 5.080 min Scan# 5
Delta R.T. 0.012 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

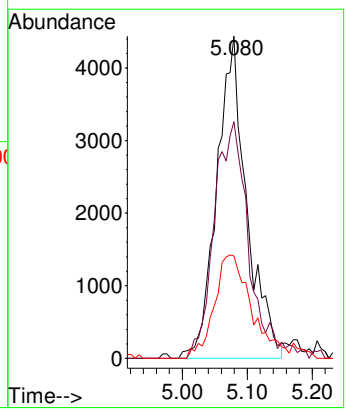
Tgt Ion: 53 Resp: 1422

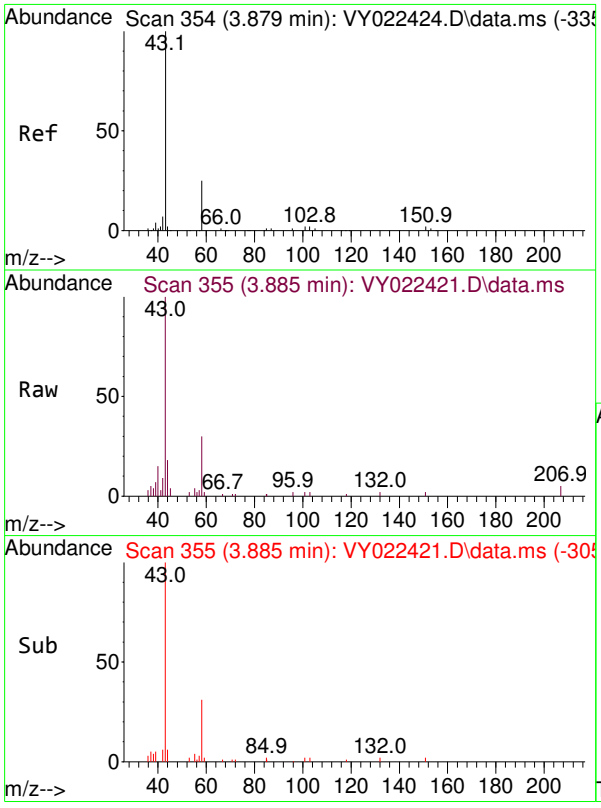
Ion	Ratio	Lower	Upper
53	100		
52	85.0	65.1	97.7
51	40.0	30.0	45.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

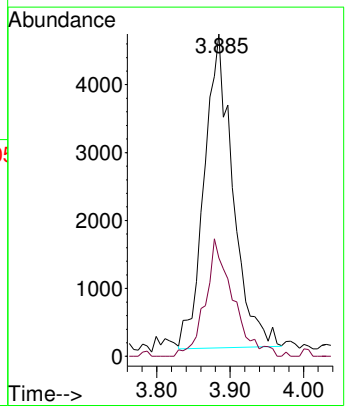


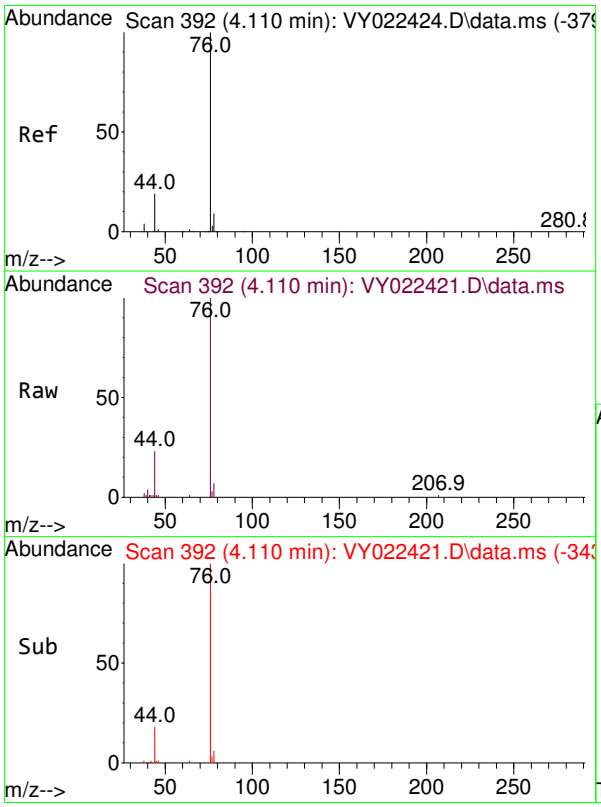


#16
Acetone
Concen: 27.123 ug/l
RT: 3.885 min Scan# 355
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 43 Resp: 12519

Ion	Ratio	Lower	Upper
43	100		
58	31.4	20.6	30.8#





#17
Carbon Disulfide
Concen: 5.002 ug/l
RT: 4.110 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 76 Resp: 4459

Ion	Ratio	Lower	Upper
76	100		
78	7.4	7.2	10.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

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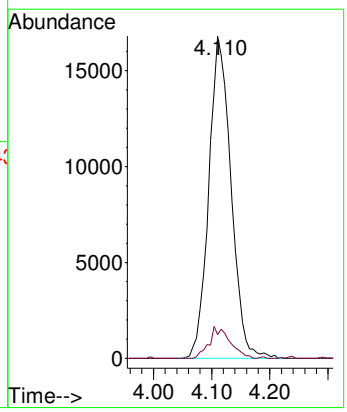
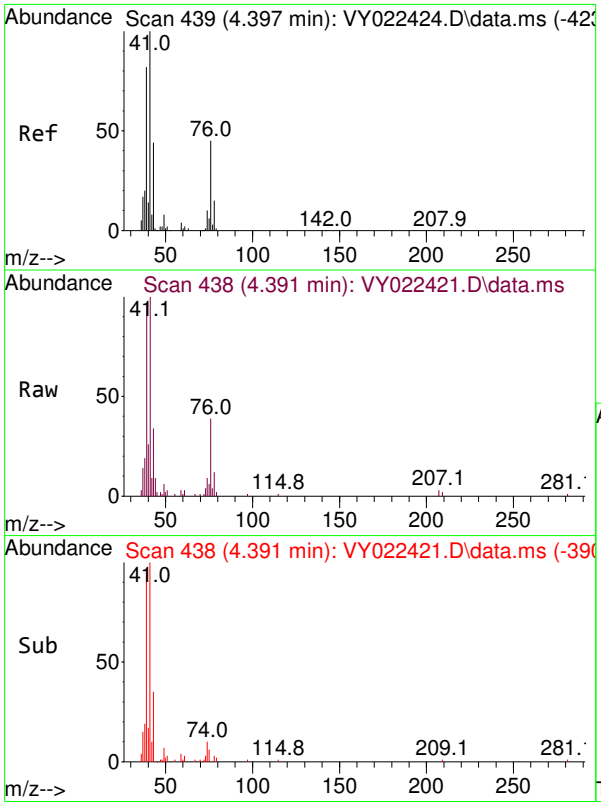
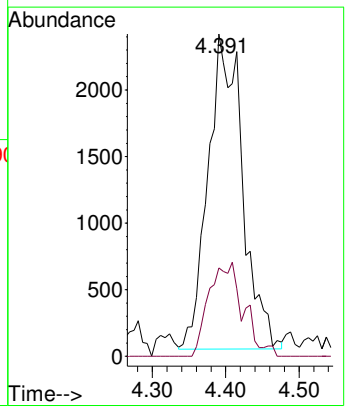


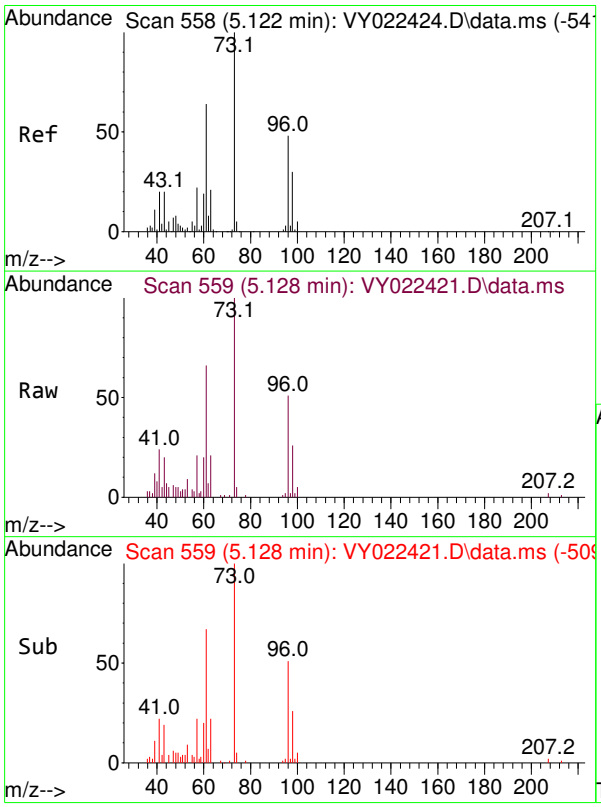


#18
Methyl Acetate
Concen: 4.437 ug/l
RT: 4.391 min Scan# 438
Delta R.T. -0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 43 Resp: 7671

Ion	Ratio	Lower	Upper
43	100		
74	30.0	21.2	31.8





#19
Methyl tert-butyl Ether
Concen: 4.864 ug/l
RT: 5.128 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 73 Resp: 3607

Ion	Ratio	Lower	Upper
73	100		
57	21.3	17.7	26.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

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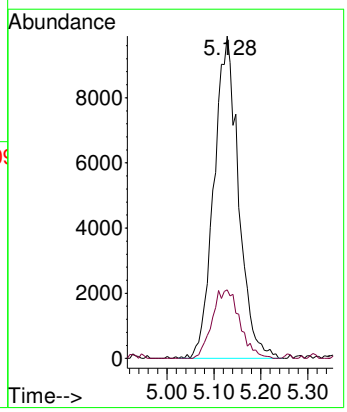
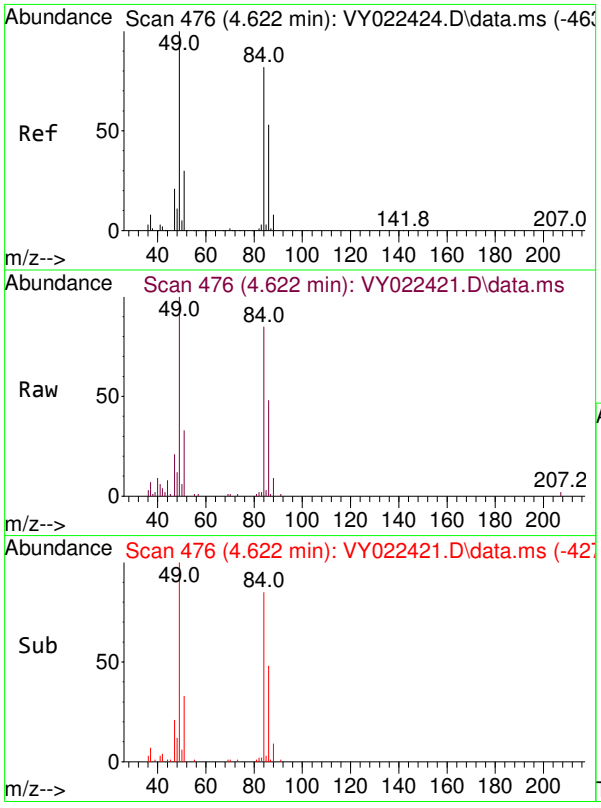
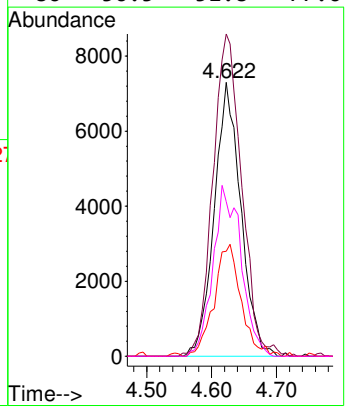


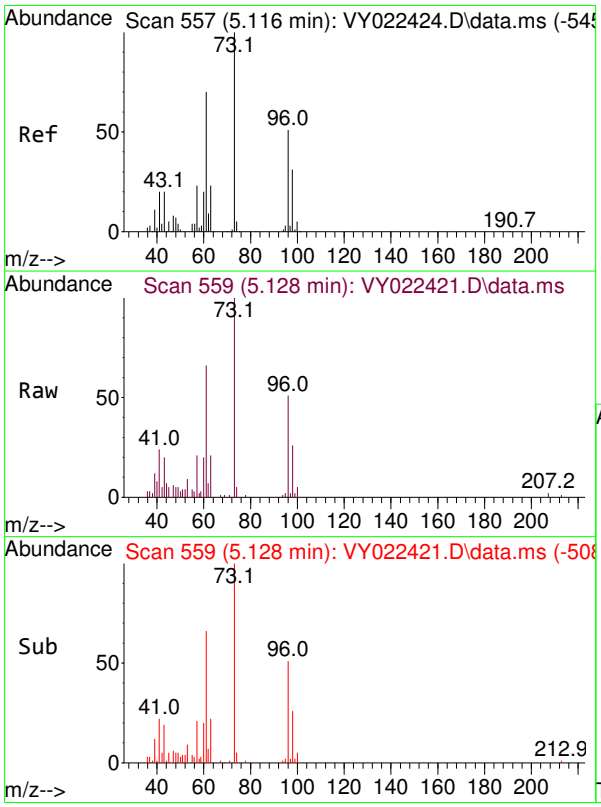


#20
Methylene Chloride
Concen: 6.367 ug/l
RT: 4.622 min Scan# 476
Delta R.T. 0.000 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 84 Resp: 20751

Ion	Ratio	Lower	Upper
84	100		
49	117.7	97.8	146.8
51	38.4	29.5	44.3
86	56.5	51.8	77.6





#21
trans-1,2-Dichloroethene
Concen: 5.203 ug/l
RT: 5.128 min Scan# 5
Delta R.T. 0.012 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 96 Resp: 1587

Ion	Ratio	Lower	Upper
96	100		
61	129.8	110.4	165.6
98	50.4	48.6	73.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

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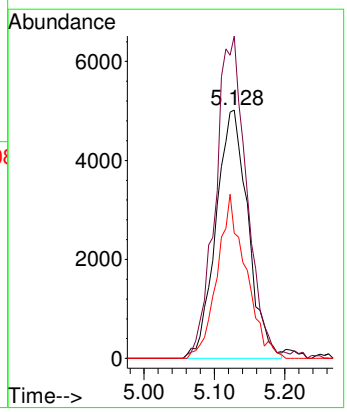
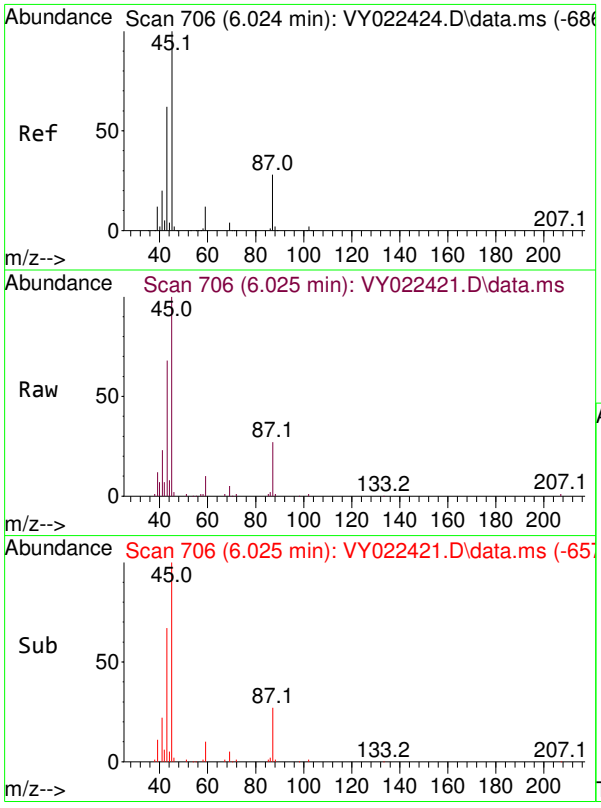
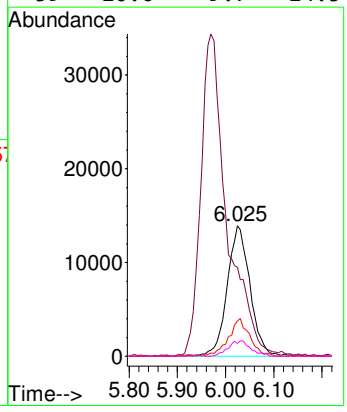


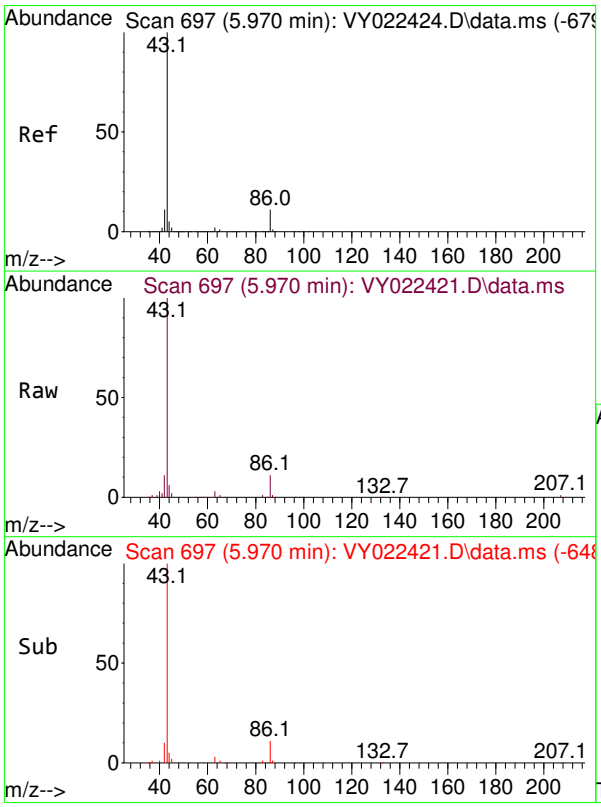


#22
Diisopropyl ether
Concen: 4.916 ug/l
RT: 6.025 min Scan# 706
Delta R.T. 0.000 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 45 Resp: 45596

Ion	Ratio	Lower	Upper
45	100		
43	66.5	49.8	74.8
87	27.1	23.0	34.6
59	10.0	9.7	14.5





#23
Vinyl Acetate
Concen: 24.282 ug/l
RT: 5.970 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 43 Resp: 12932

Ion	Ratio	Lower	Upper
43	100		
86	11.4	8.8	13.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

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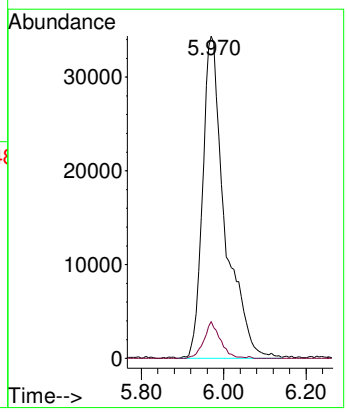
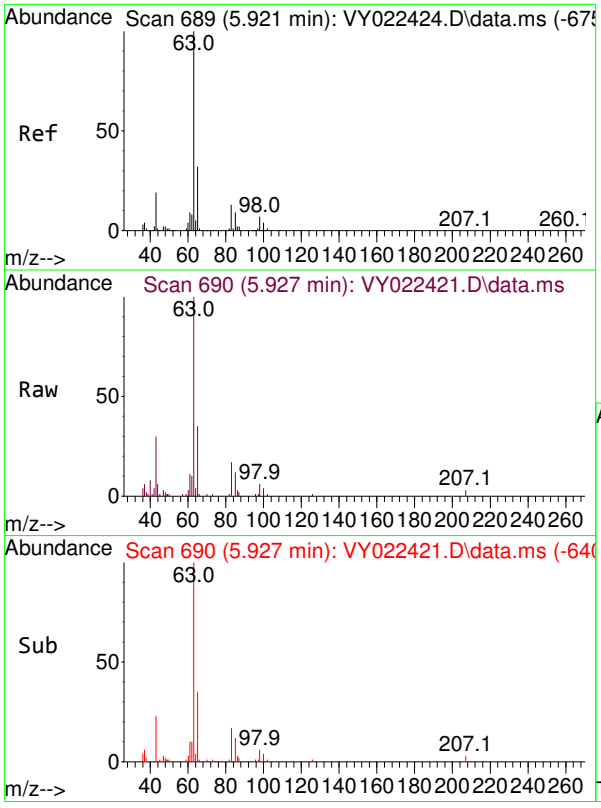
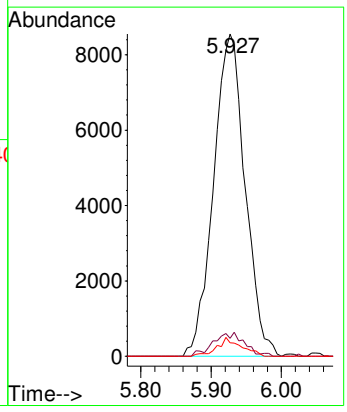


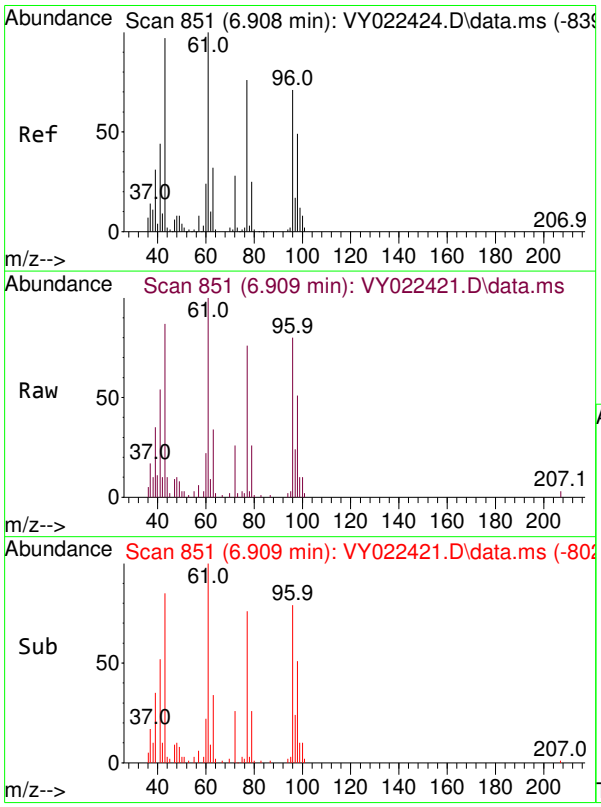


#24
1,1-Dichloroethane
Concen: 4.866 ug/l
RT: 5.927 min Scan# 690
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 63 Resp: 26673

Ion	Ratio	Lower	Upper
63	100		
98	5.5	3.5	10.5
100	4.2	2.1	6.5





#25
2-Butanone
Concen: 23.799 ug/l
RT: 6.909 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 43 Resp: 1829

Ion	Ratio	Lower	Upper
43	100		
72	30.1	22.8	34.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

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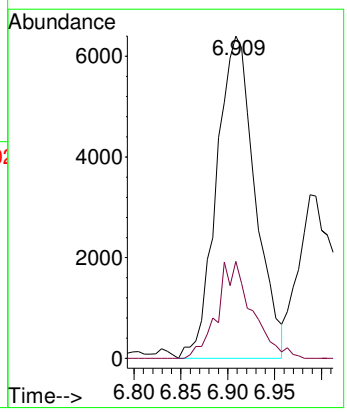
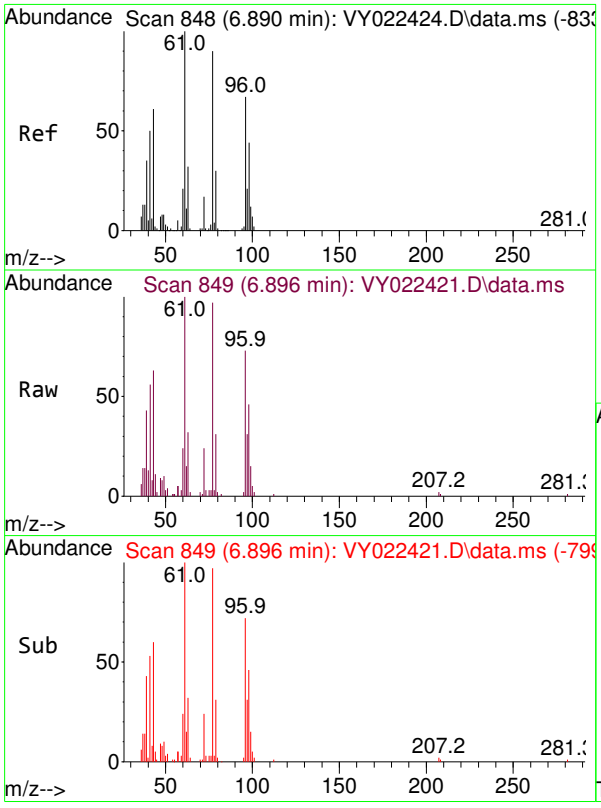
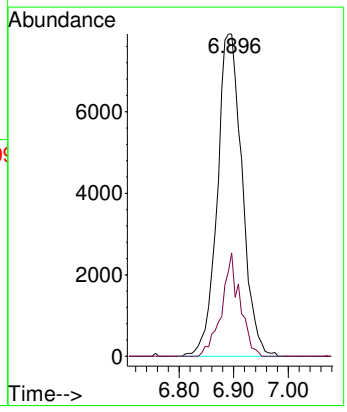


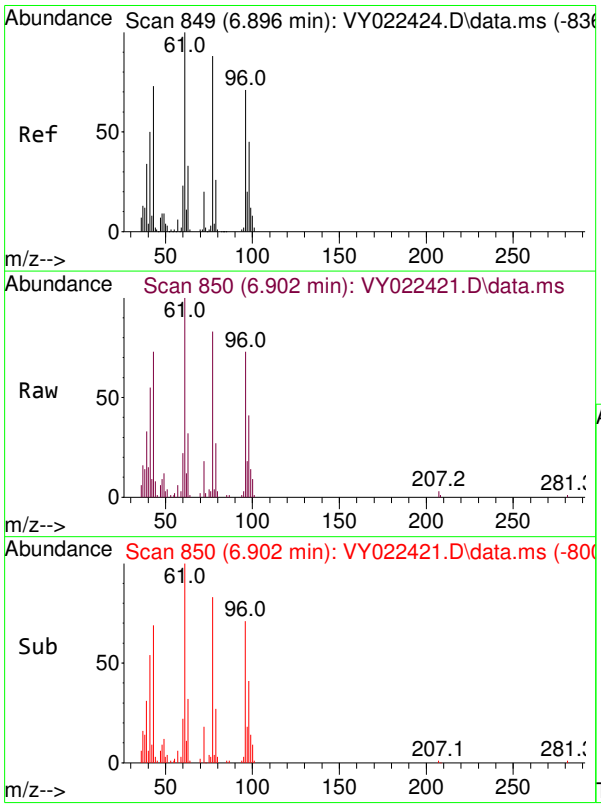


#26
2,2-Dichloropropane
Concen: 5.037 ug/l
RT: 6.896 min Scan# 849
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 77 Resp: 24997

Ion	Ratio	Lower	Upper
77	100		
97	23.8	11.6	34.7





#27
cis-1,2-Dichloroethene
Concen: 4.944 ug/l
RT: 6.902 min Scan# 8
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 96 Resp: 1745

Ion	Ratio	Lower	Upper
96	100		
61	141.7	0.0	292.0
98	63.1	0.0	131.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

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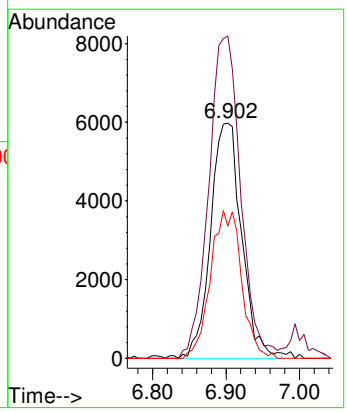
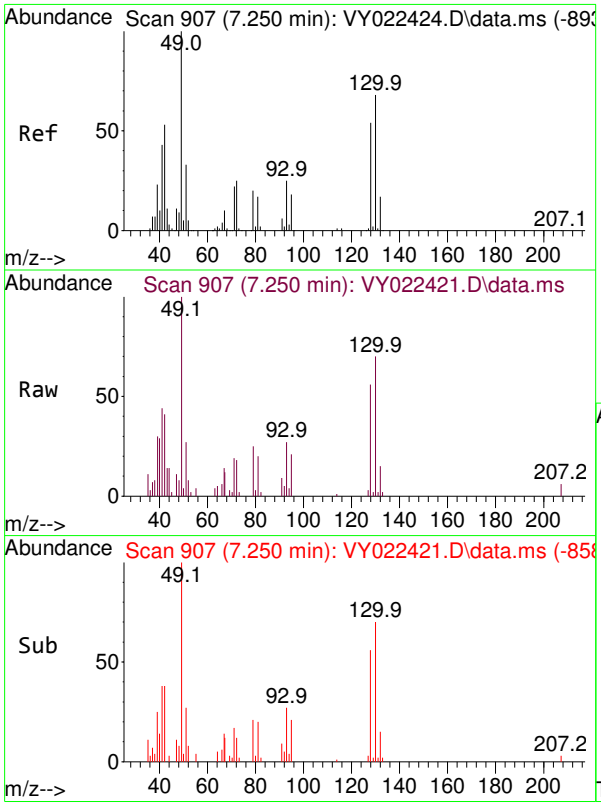
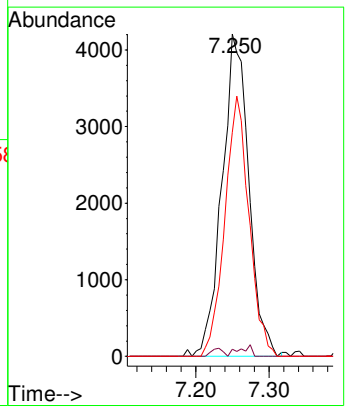


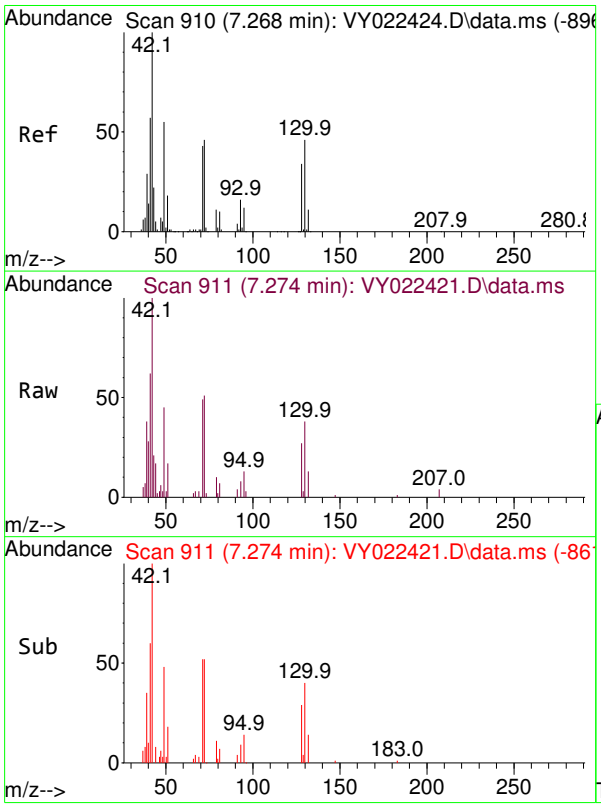


#28
Bromochloromethane
Concen: 4.657 ug/l
RT: 7.250 min Scan# 907
Delta R.T. 0.000 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 49 Resp: 10658

Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.0
130	72.8	56.9	85.3





#29
Tetrahydrofuran
Concen: 24.613 ug/l
RT: 7.274 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 42 Resp: 1261

Ion	Ratio	Lower	Upper
42	100		
72	45.6	37.7	56.5
71	43.1	34.7	52.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

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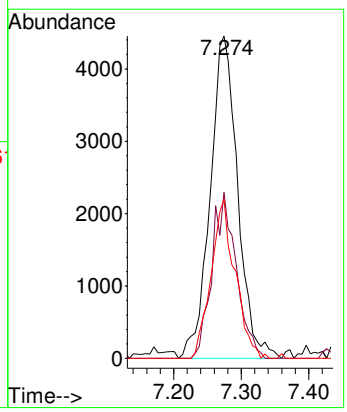
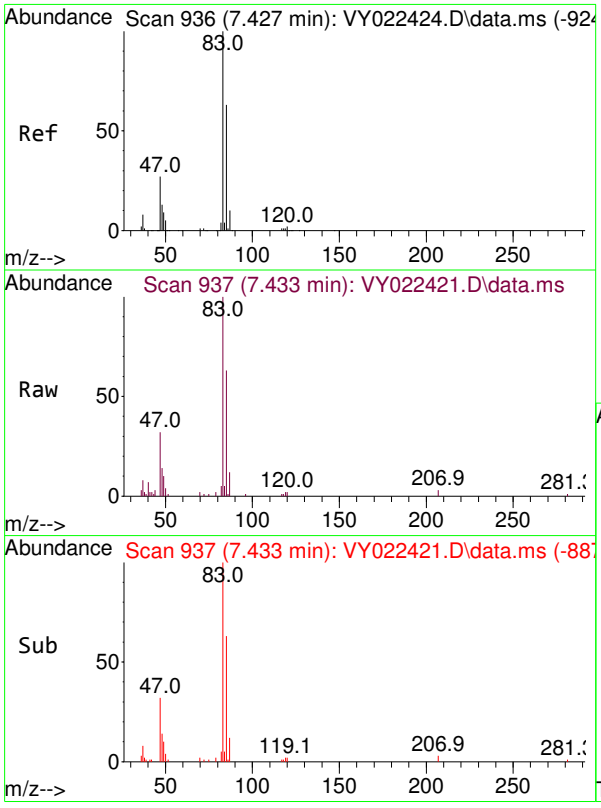
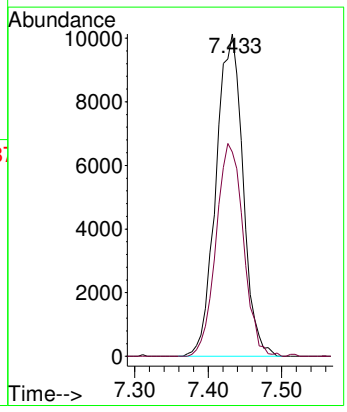


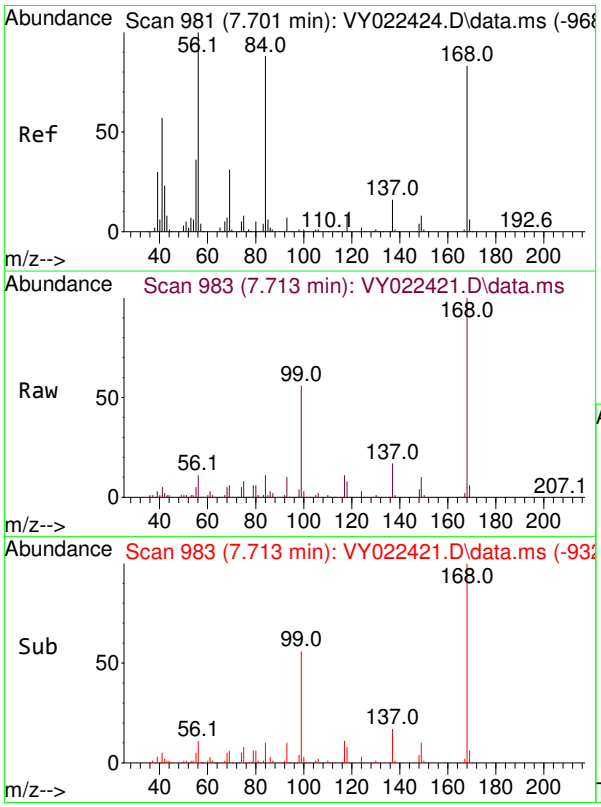


#30
Chloroform
Concen: 4.771 ug/l
RT: 7.433 min Scan# 937
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 83 Resp: 25766

Ion	Ratio	Lower	Upper
83	100		
85	63.4	50.1	75.1





#31
Cyclohexane
Concen: 6.024 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.012 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 56 Resp: 3254

Ion	Ratio	Lower	Upper
56	100		
69	52.5	24.6	36.8
84	98.3	70.4	105.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

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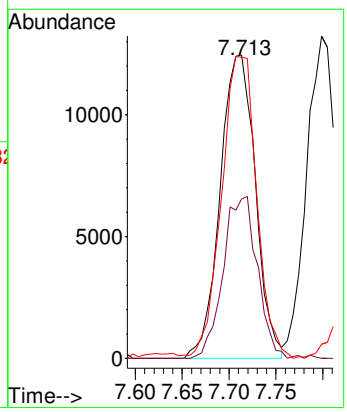
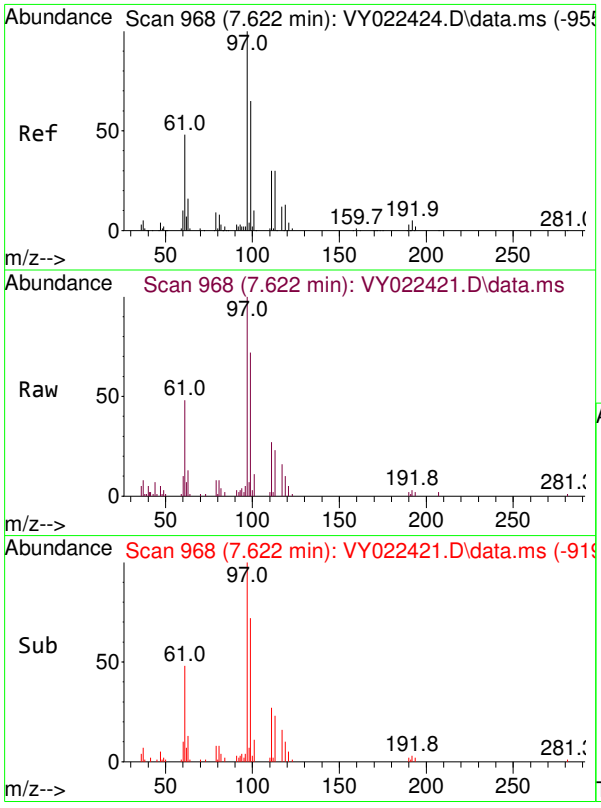
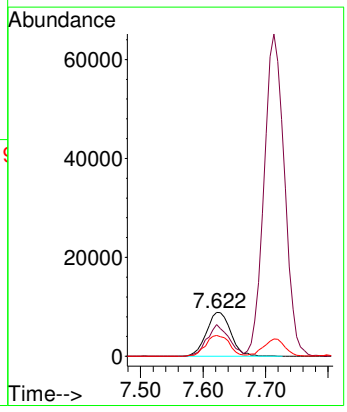


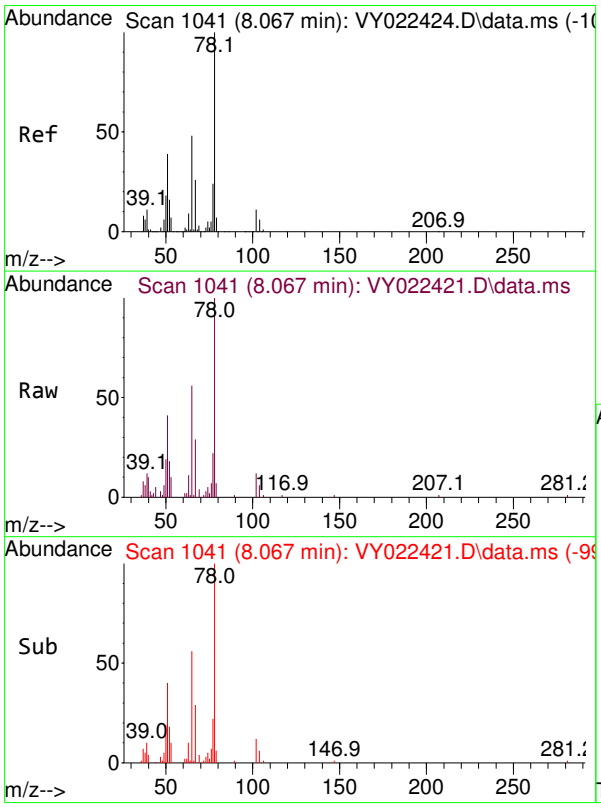


#32
1,1,1-Trichloroethane
Concen: 4.896 ug/l
RT: 7.622 min Scan# 968
Delta R.T. 0.000 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 97 Resp: 23999

Ion	Ratio	Lower	Upper
97	100		
99	65.1	51.3	76.9
61	47.1	37.3	55.9





#33
1,2-Dichloroethane-d4
Concen: 4.811 ug/l
RT: 8.067 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 65 Resp: 1351

Ion	Ratio	Lower	Upper
65	100		
67	51.3	0.0	104.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

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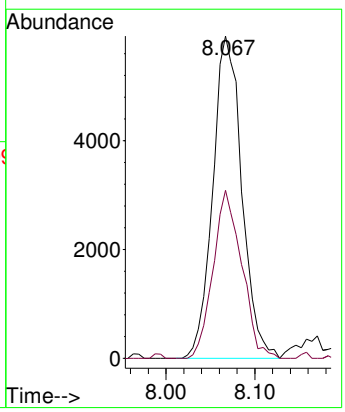
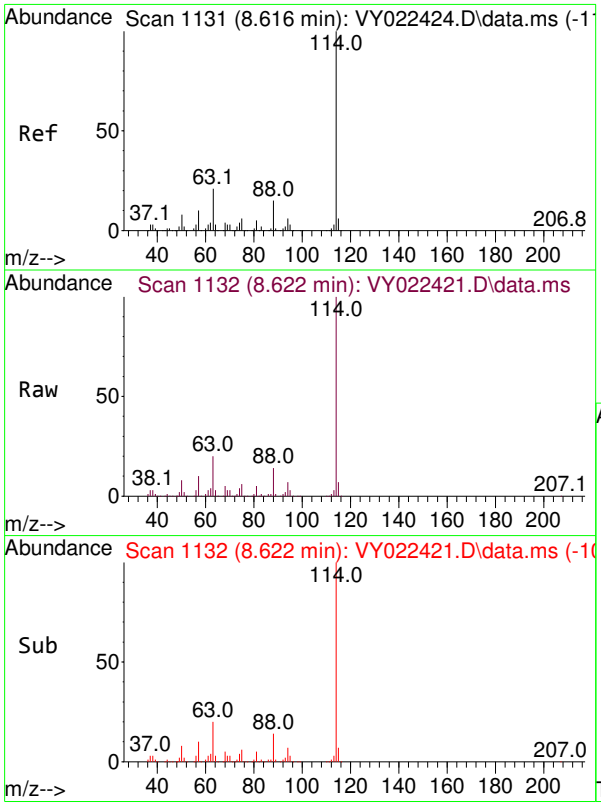
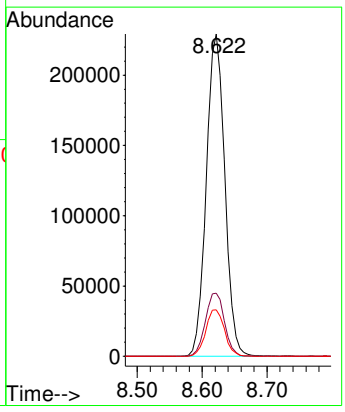


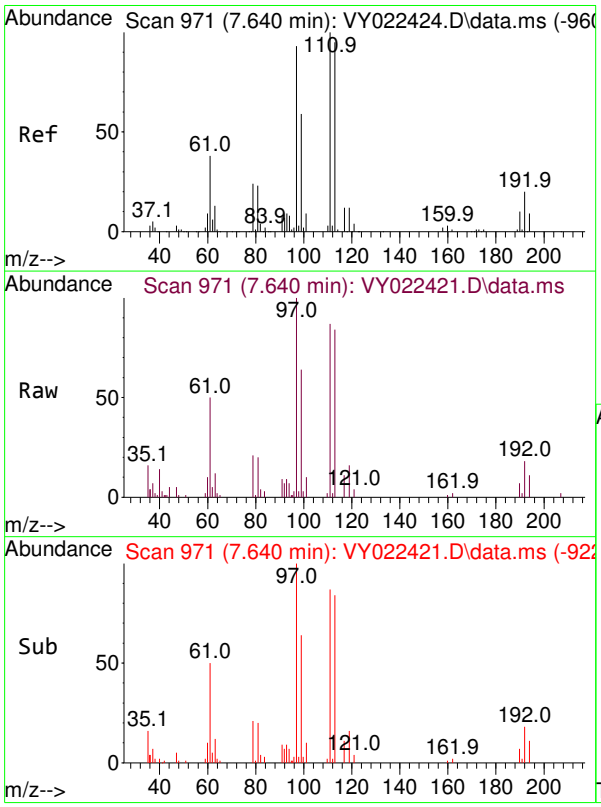


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.622 min Scan# 1132
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion:114 Resp: 453411

Ion	Ratio	Lower	Upper
114	100		
63	19.6	0.0	42.6
88	14.4	0.0	29.4

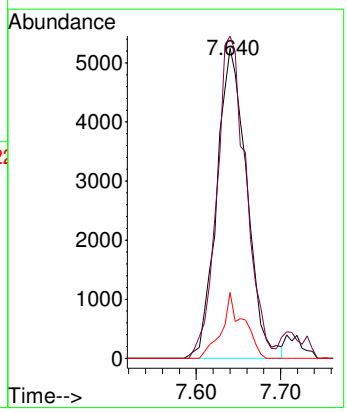




#35
Dibromofluoromethane
Concen: 4.898 ug/l
RT: 7.640 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion:113 Resp: 1300

Ion	Ratio	Lower	Upper
113	100		
111	101.2	82.4	123.6
192	15.3	15.2	22.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

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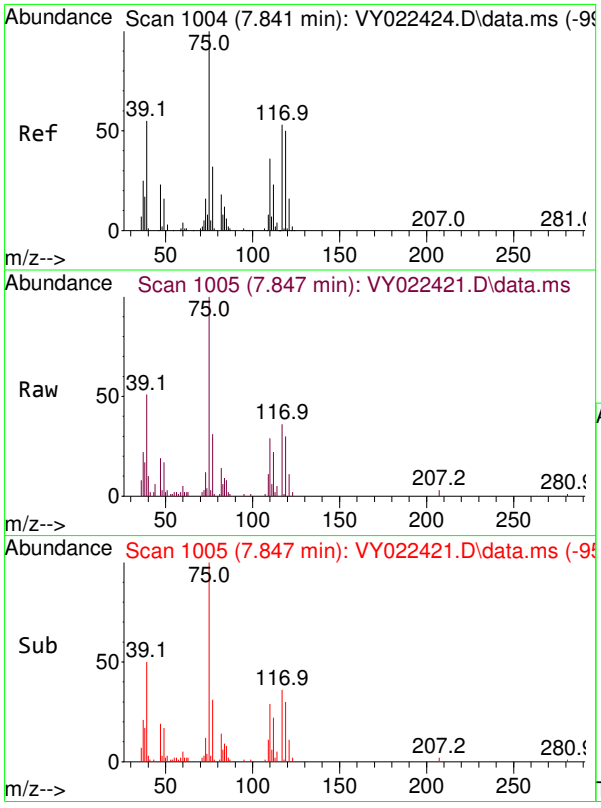
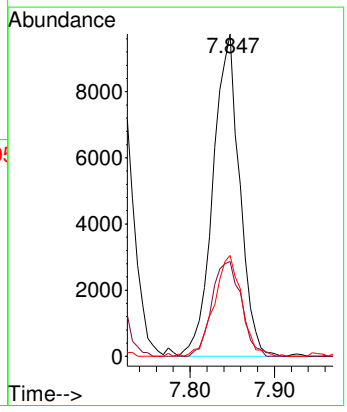
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

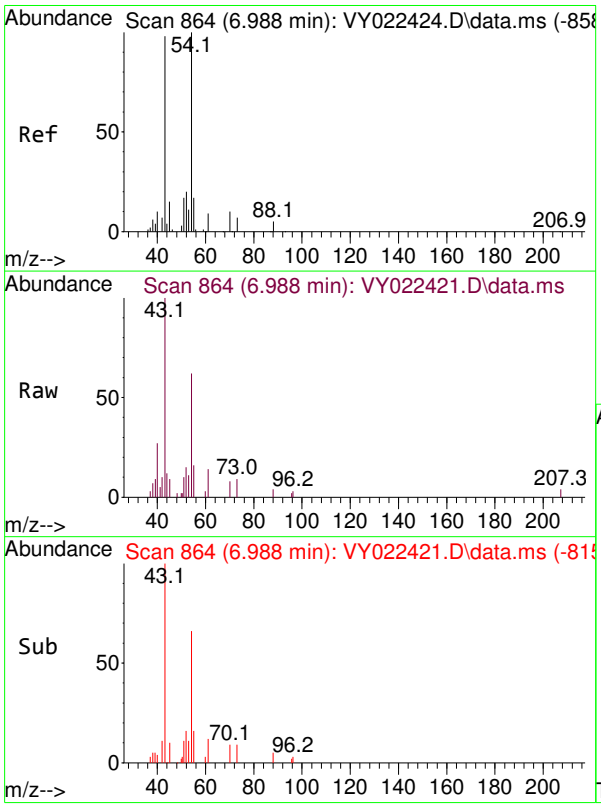


#36
1,1-Dichloropropene
Concen: 5.079 ug/l
RT: 7.847 min Scan# 1005
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 75 Resp: 21399

Ion	Ratio	Lower	Upper
75	100		
110	32.6	17.1	51.2
77	32.5	25.1	37.7





#37
Ethyl Acetate
Concen: 5.000 ug/l
RT: 6.988 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 43 Resp: 895

Ion	Ratio	Lower	Upper
43	100		
61	15.4	11.7	17.5
70	11.4	7.8	11.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
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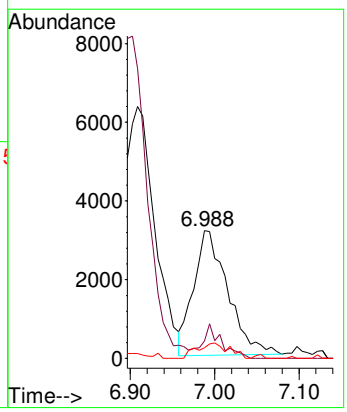
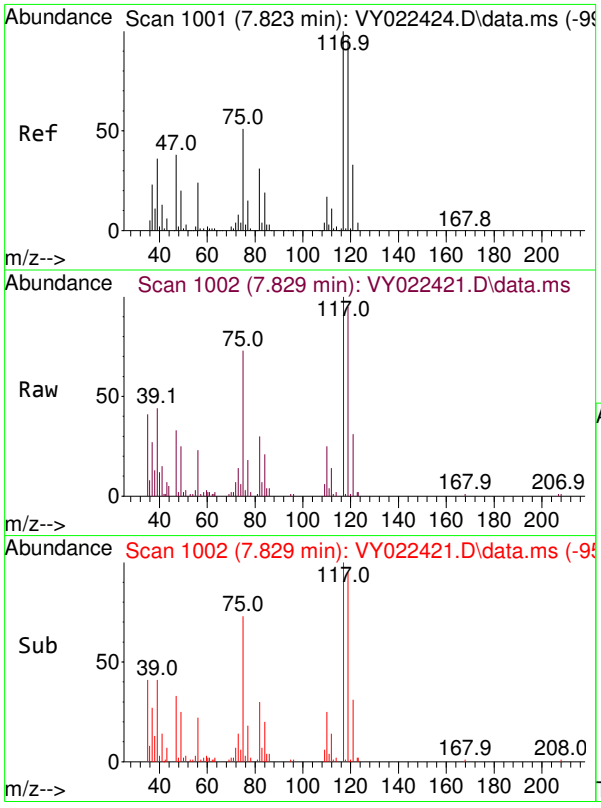
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

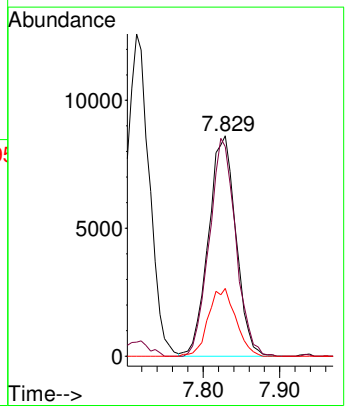


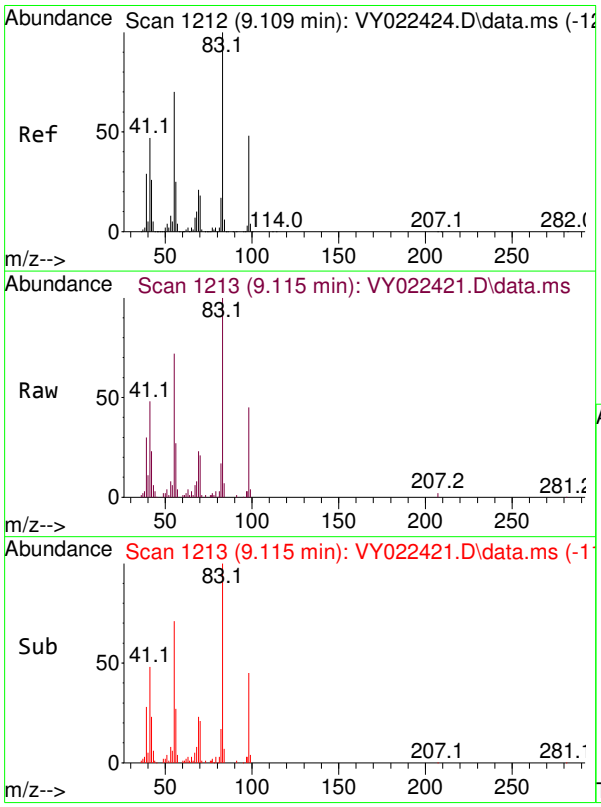


#38
Carbon Tetrachloride
Concen: 4.888 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion:117 Resp: 21453

Ion	Ratio	Lower	Upper
117	100		
119	95.2	76.3	114.5
121	30.8	26.1	39.1





#39
Methylcyclohexane
Concen: 4.948 ug/l
RT: 9.115 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 83 Resp: 2771

Ion	Ratio	Lower	Upper
83	100		
55	71.0	56.2	84.2
98	45.1	38.4	57.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
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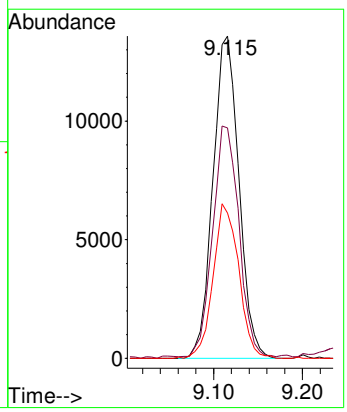
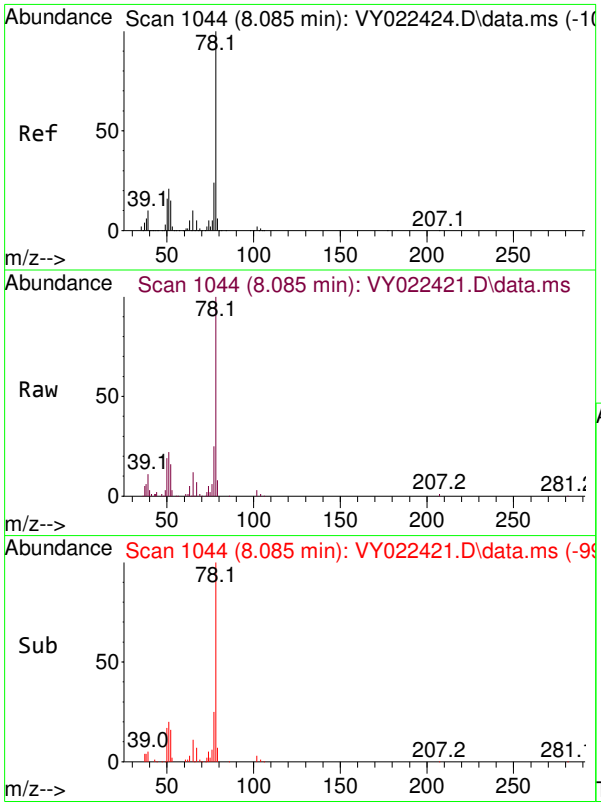
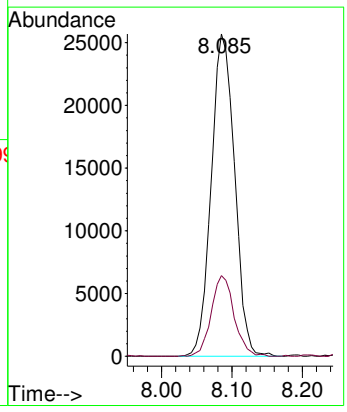


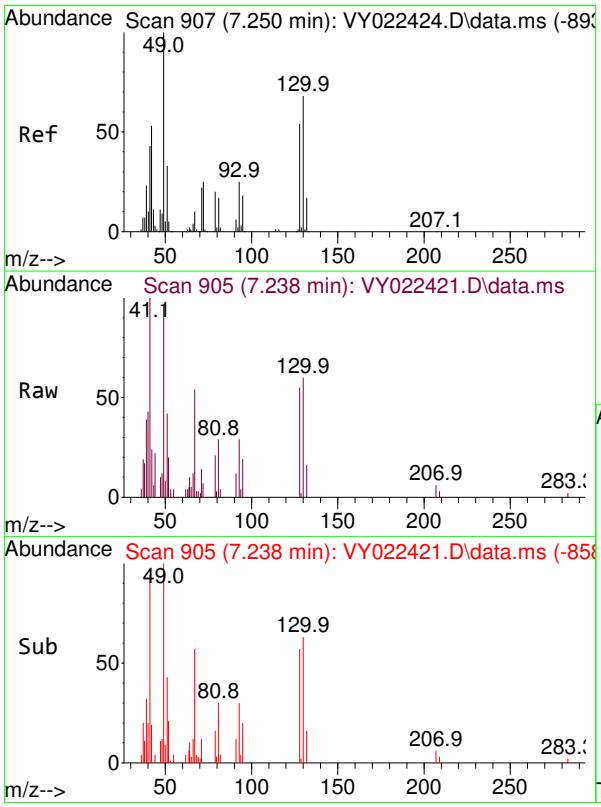


#40
Benzene
Concen: 4.732 ug/l
RT: 8.085 min Scan# 1044
Delta R.T. 0.000 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 78 Resp: 59324

Ion	Ratio	Lower	Upper
78	100		
77	25.1	19.4	29.2

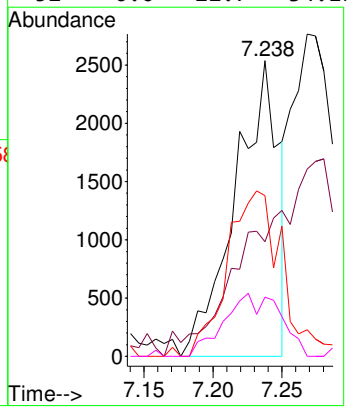




#41
Methacrylonitrile
Concen: 2.353 ug/l m
RT: 7.238 min Scan# 9
Delta R.T. -0.012 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 41 Resp: 554

Ion	Ratio	Lower	Upper
41	100		
39	0.0	40.4	60.6
67	0.0	53.0	79.4
52	0.0	22.7	34.1#



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

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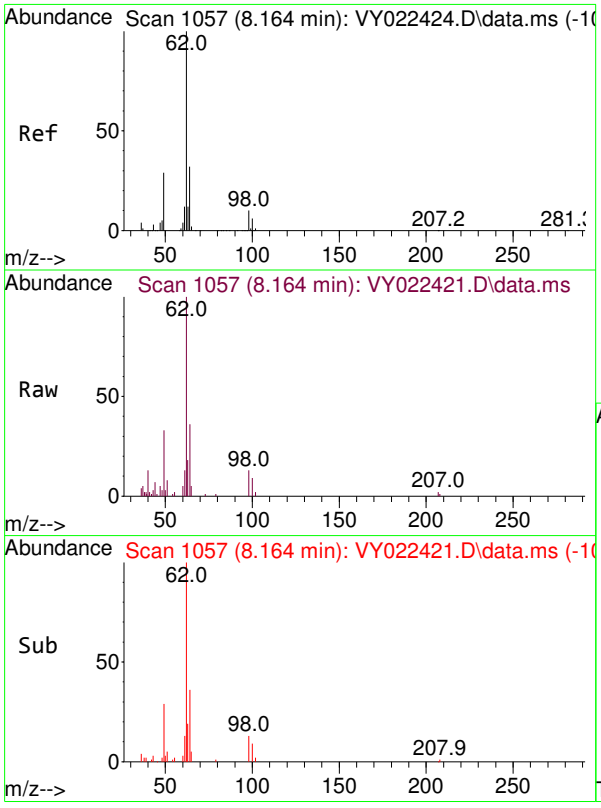
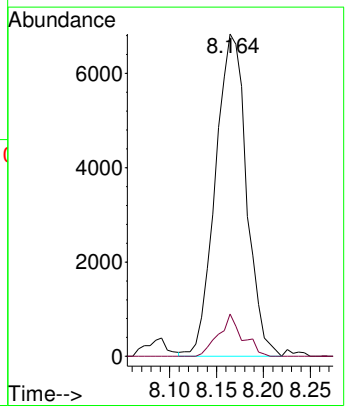
Supervised By :Mahesh Dadoda 05/28/2025

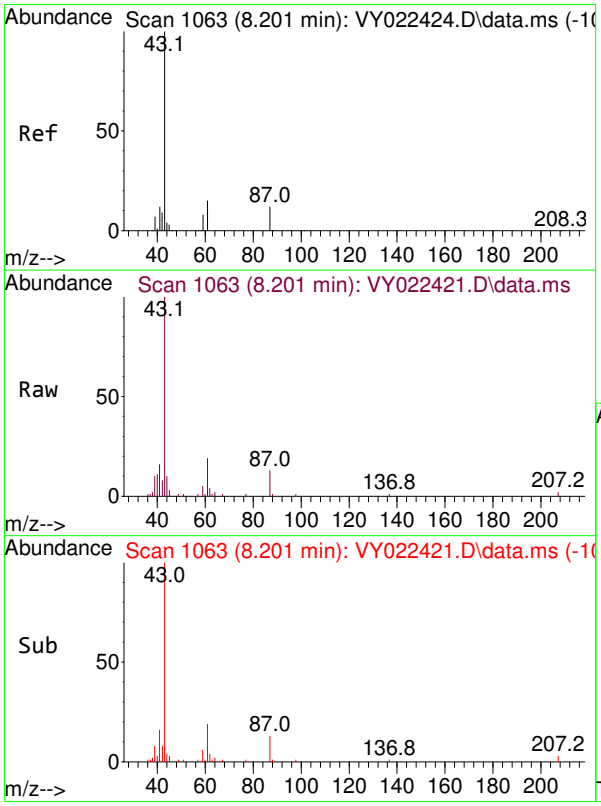


#42
1,2-Dichloroethane
Concen: 4.764 ug/l
RT: 8.164 min Scan# 1057
Delta R.T. 0.000 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 62 Resp: 15776

Ion	Ratio	Lower	Upper
62	100		
98	10.1	0.0	18.4





#43
Isopropyl Acetate
Concen: 4.662 ug/l
RT: 8.201 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 43 Resp: 1824

Ion	Ratio	Lower	Upper
43	100		
61	20.5	15.4	23.0
87	13.3	10.6	15.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

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Reviewed By :Amit Patel 05/28/2025
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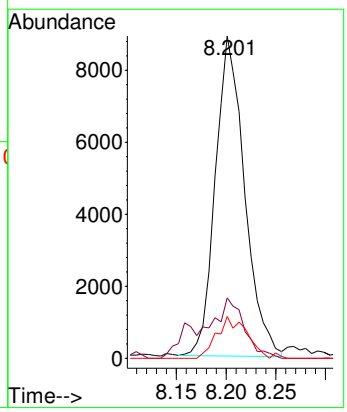
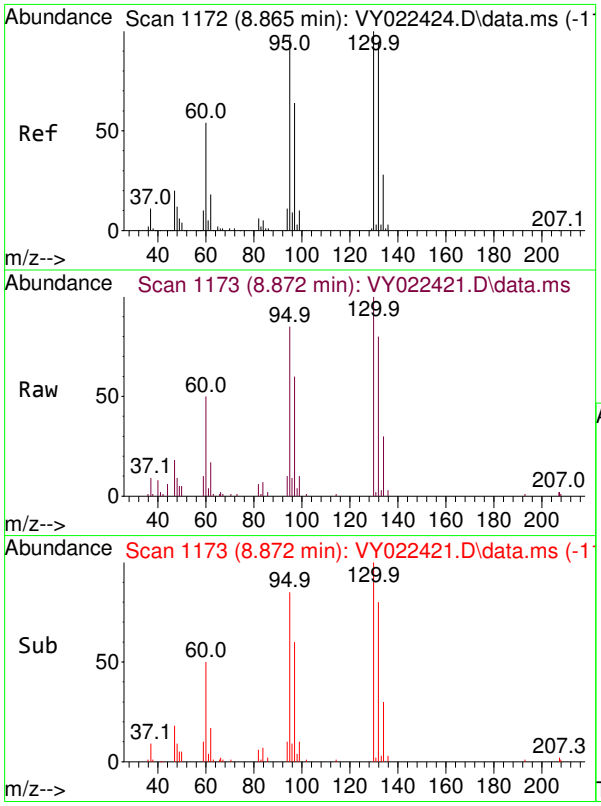
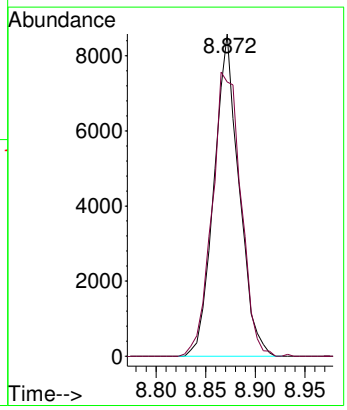


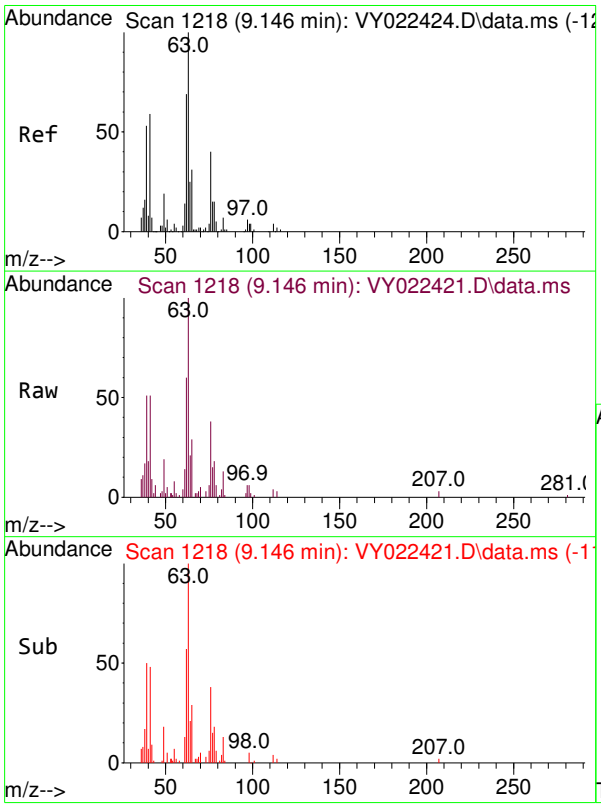


#44
Trichloroethene
Concen: 4.882 ug/l
RT: 8.872 min Scan# 1173
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion:130 Resp: 15132

Ion	Ratio	Lower	Upper
130	100		
95	85.1	0.0	194.8





#45
1,2-Dichloropropane
Concen: 4.935 ug/l
RT: 9.146 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 63 Resp: 1453

Ion	Ratio	Lower	Upper
63	100		
65	28.6	25.1	37.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
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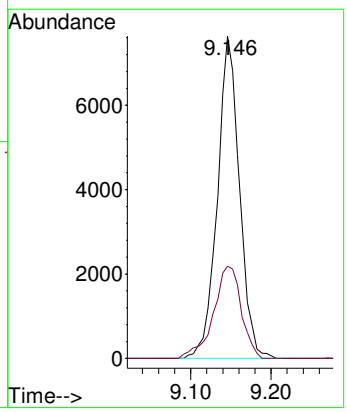
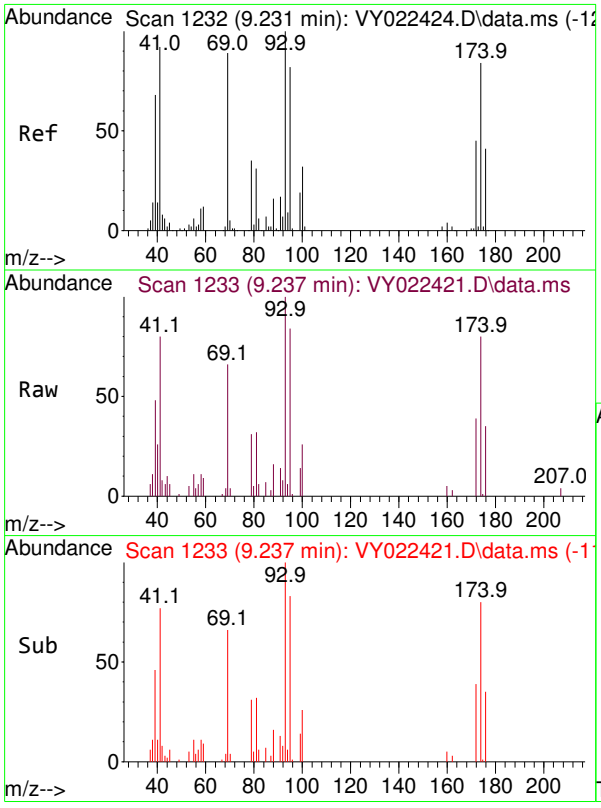
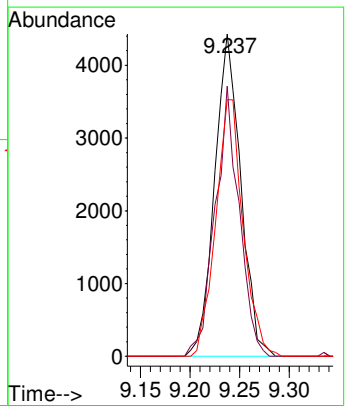


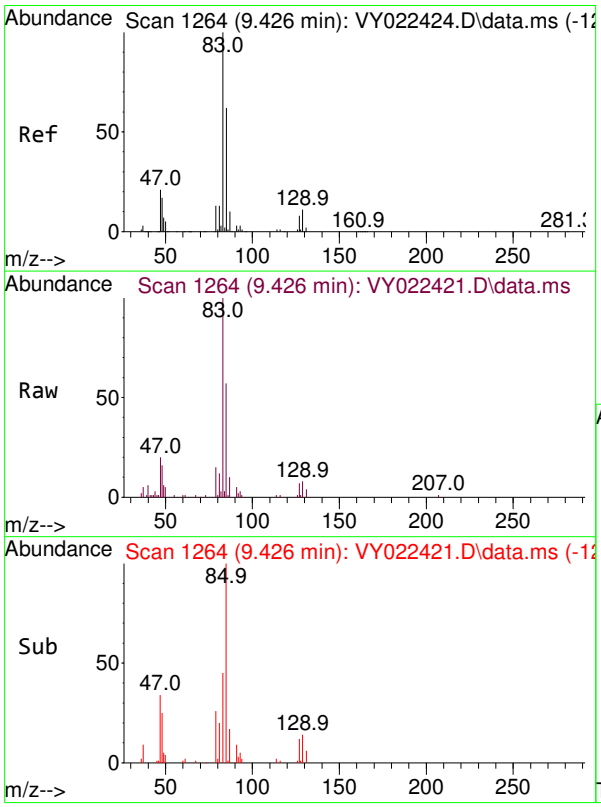


#46
Dibromomethane
Concen: 4.948 ug/l
RT: 9.237 min Scan# 1233
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 93 Resp: 8142

Ion	Ratio	Lower	Upper
93	100		
95	77.0	66.2	99.2
174	83.4	71.1	106.7





#47
Bromodichloromethane
Concen: 4.839 ug/l
RT: 9.426 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 83 Resp: 2047

Ion	Ratio	Lower	Upper
83	100		
85	57.4	49.8	74.6
127	6.6	6.6	9.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

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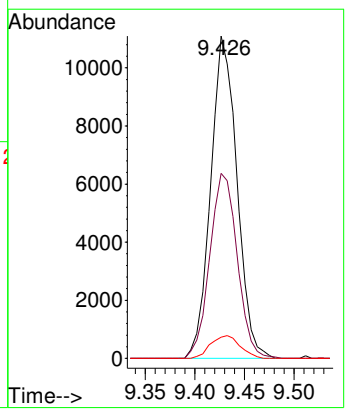
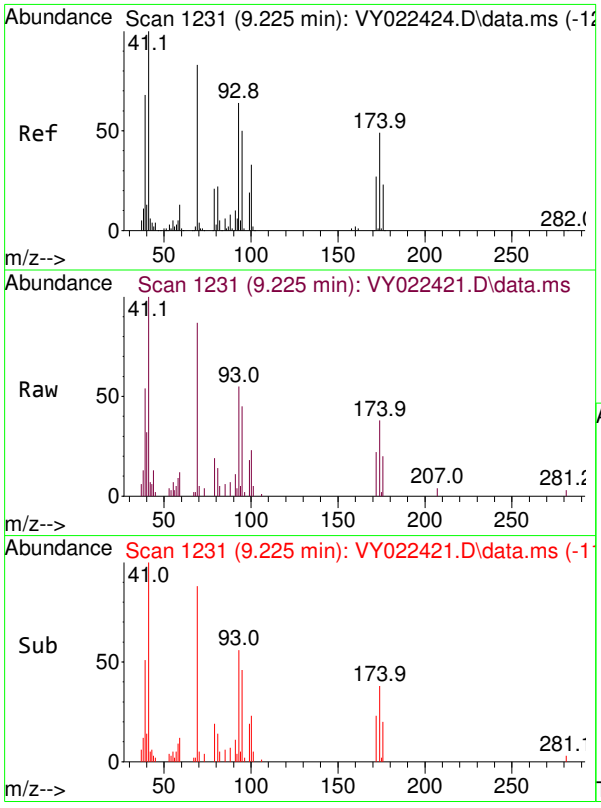
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

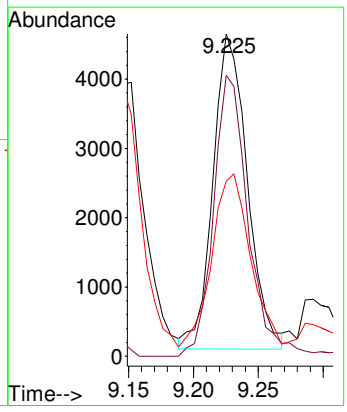


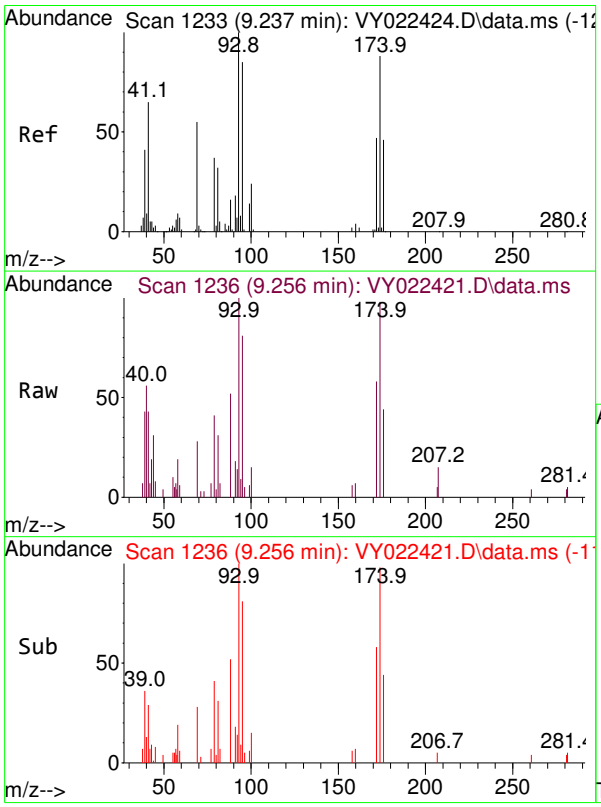


#48
Methyl methacrylate
Concen: 4.619 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.000 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 41 Resp: 8390

Ion	Ratio	Lower	Upper
41	100		
69	89.2	70.3	105.5
39	61.6	55.4	83.0





#49
1,4-Dioxane
Concen: 94.135 ug/l
RT: 9.256 min Scan# 1
Delta R.T. 0.018 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 88 Resp: 171

Ion	Ratio	Lower	Upper
88	100		
43	0.0	26.9	40.3
58	68.2	55.8	83.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
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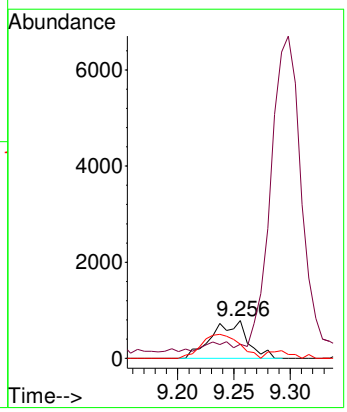
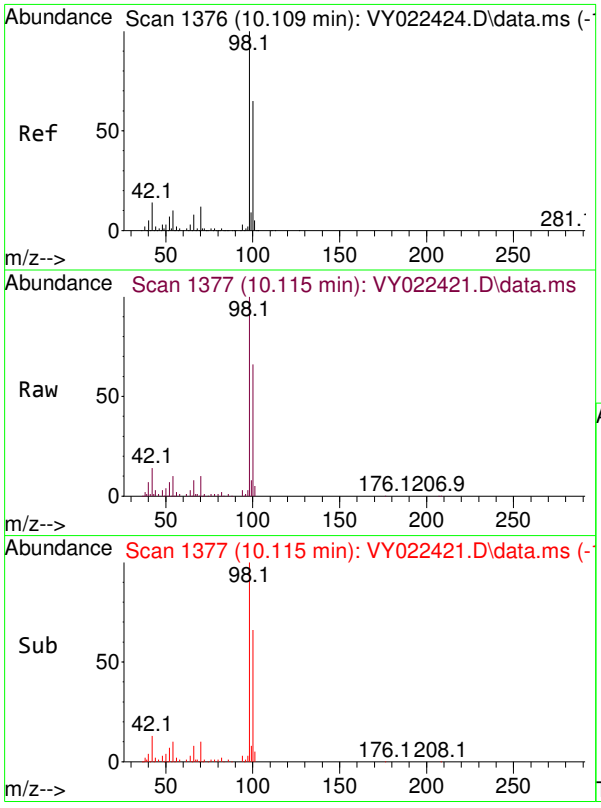
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

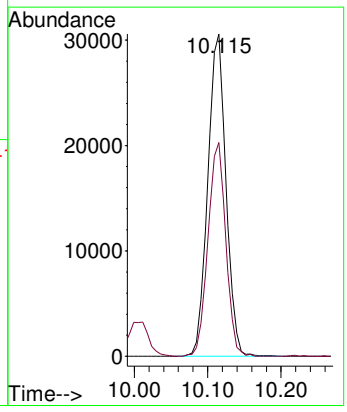


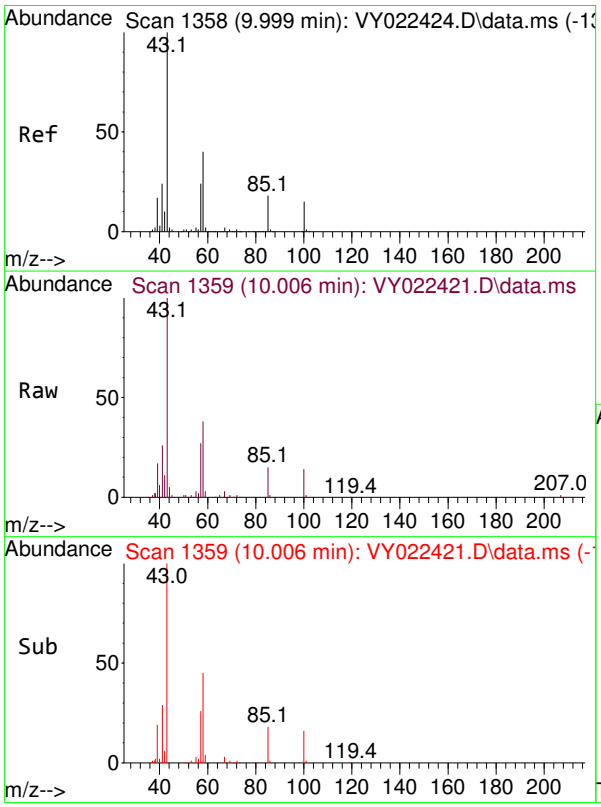


#50
Toluene-d8
Concen: 4.856 ug/l
RT: 10.115 min Scan# 1377
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 98 Resp: 52564

Ion	Ratio	Lower	Upper
98	100		
100	64.9	52.2	78.2





#51
4-Methyl-2-Pentanone
Concen: 21.778 ug/l
RT: 10.006 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 43 Resp: 4204

Ion	Ratio	Lower	Upper
43	100		
58	36.1	31.2	46.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
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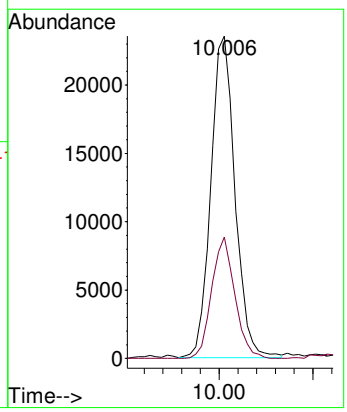
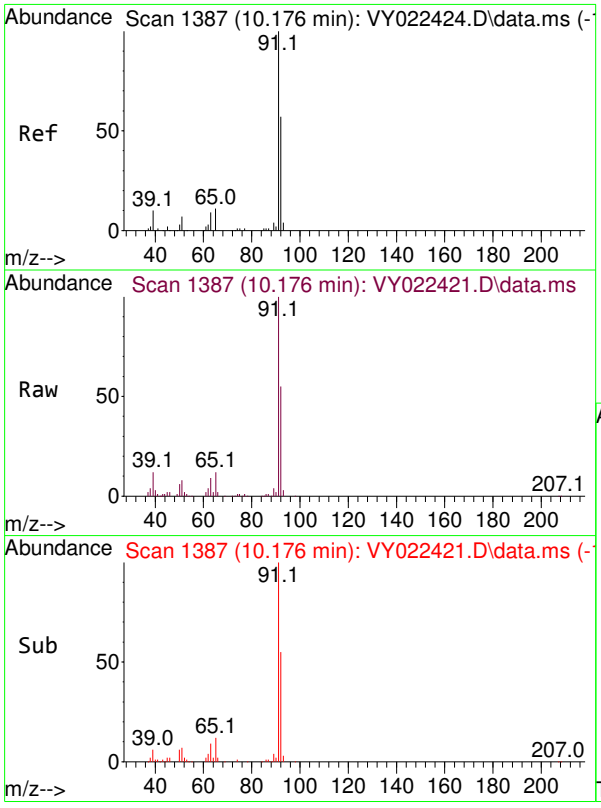
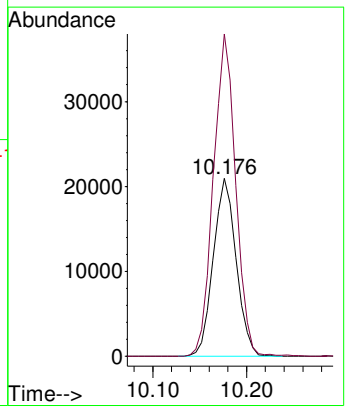


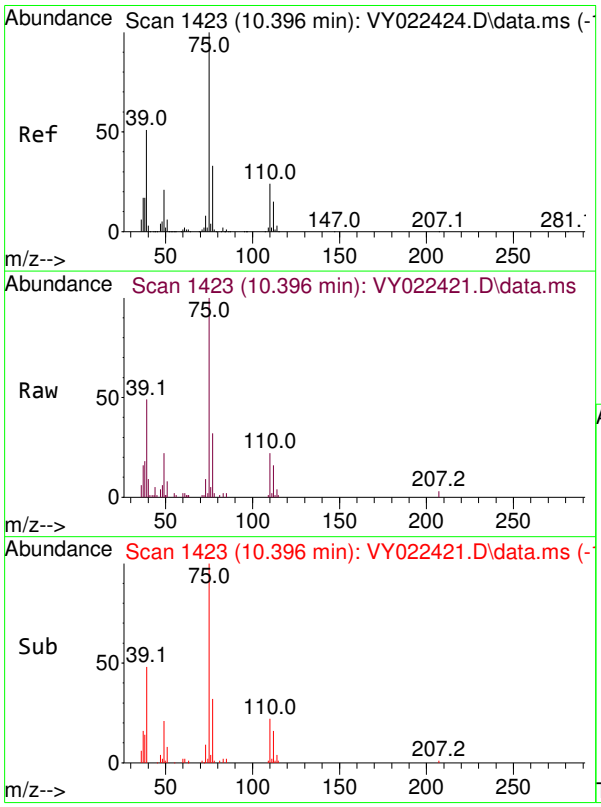


#52
Toluene
Concen: 4.527 ug/l
RT: 10.176 min Scan# 1387
Delta R.T. 0.000 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 92 Resp: 35452

Ion	Ratio	Lower	Upper
92	100		
91	176.7	139.8	209.6





#53
t-1,3-Dichloropropene
Concen: 4.596 ug/l
RT: 10.396 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

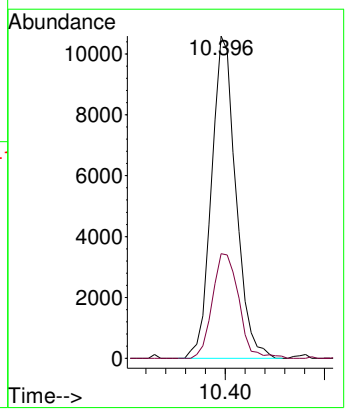
Tgt Ion: 75 Resp: 1811

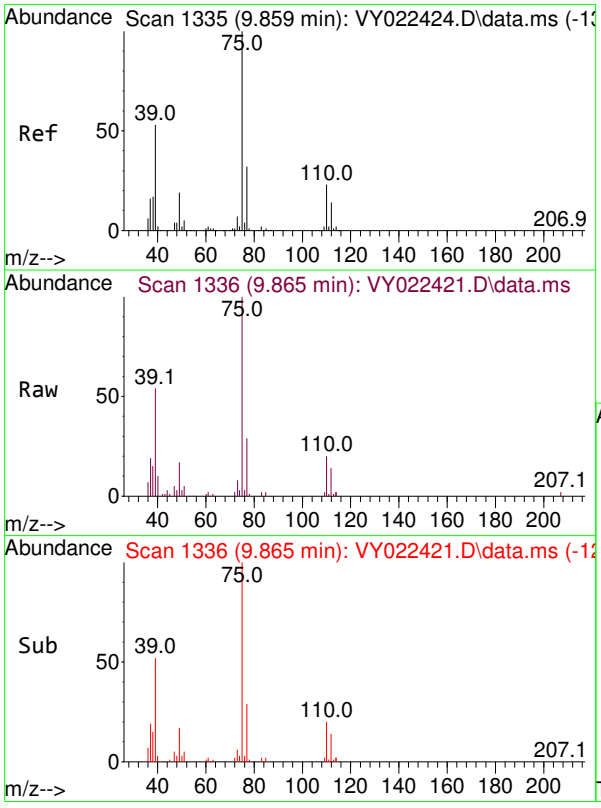
Ion	Ratio	Lower	Upper
75	100		
77	32.4	26.2	39.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

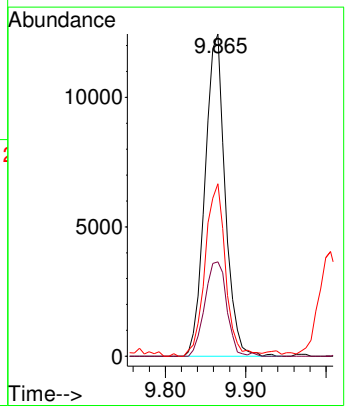


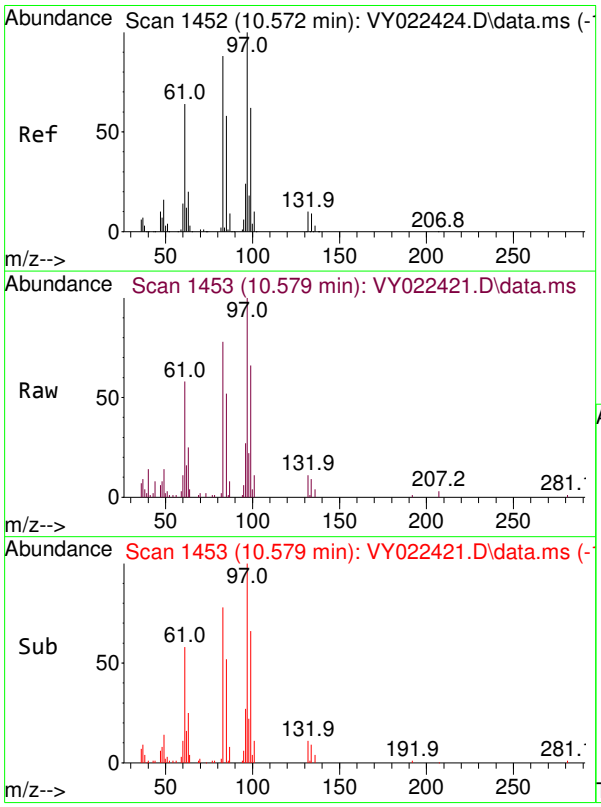


#54
cis-1,3-Dichloropropene
Concen: 4.671 ug/l
RT: 9.865 min Scan# 1336
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 75 Resp: 21634

Ion	Ratio	Lower	Upper
75	100		
77	29.3	25.4	38.2
39	53.5	42.5	63.7

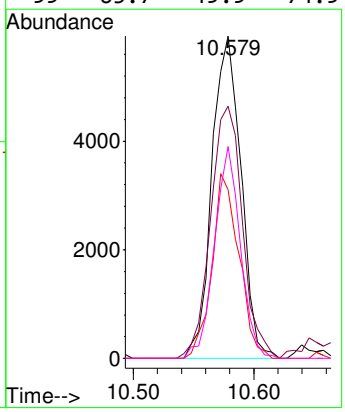




#55
1,1,2-Trichloroethane
Concen: 4.765 ug/l
RT: 10.579 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 97 Resp: 991

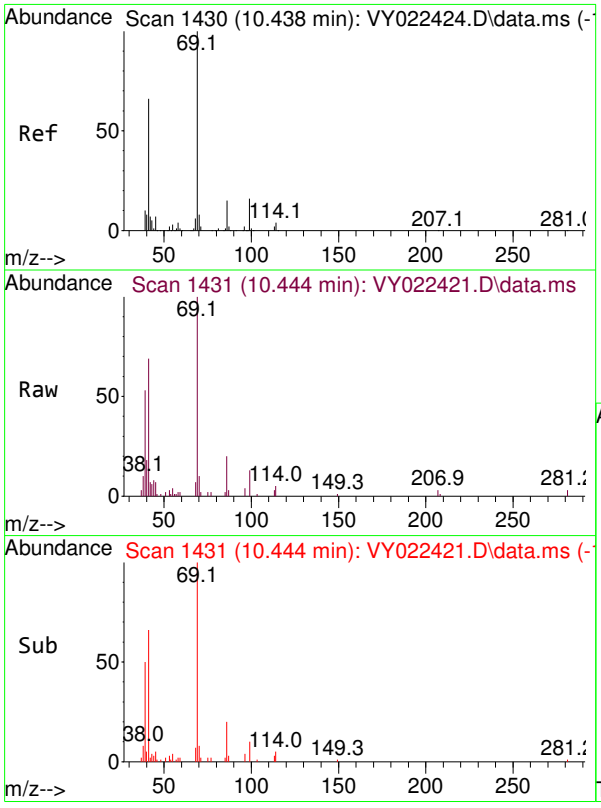
Ion	Ratio	Lower	Upper
97	100		
83	78.2	70.2	105.4
85	52.3	46.1	69.1
99	65.7	49.9	74.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

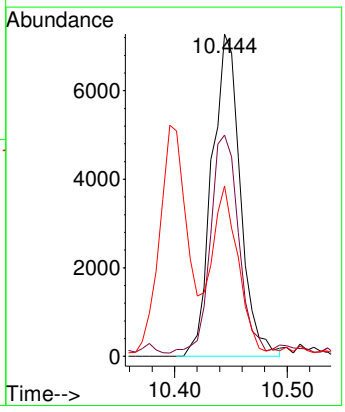
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

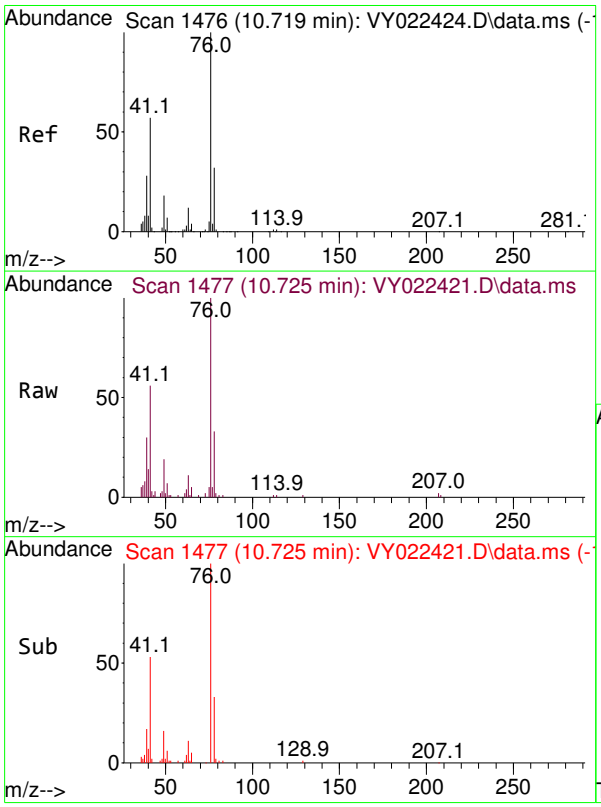


#56
Ethyl methacrylate
Concen: 4.258 ug/l
RT: 10.444 min Scan# 1431
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 69 Resp: 12714

Ion	Ratio	Lower	Upper
69	100		
41	68.6	51.2	76.8
39	48.3	35.2	52.8

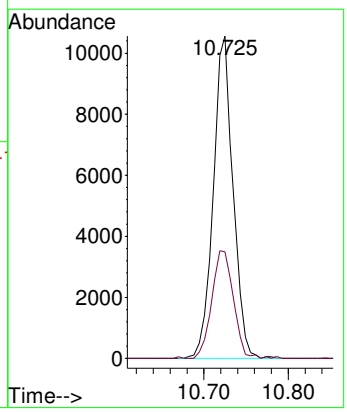




#57
1,3-Dichloropropane
Concen: 4.689 ug/l
RT: 10.725 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 76 Resp: 1719

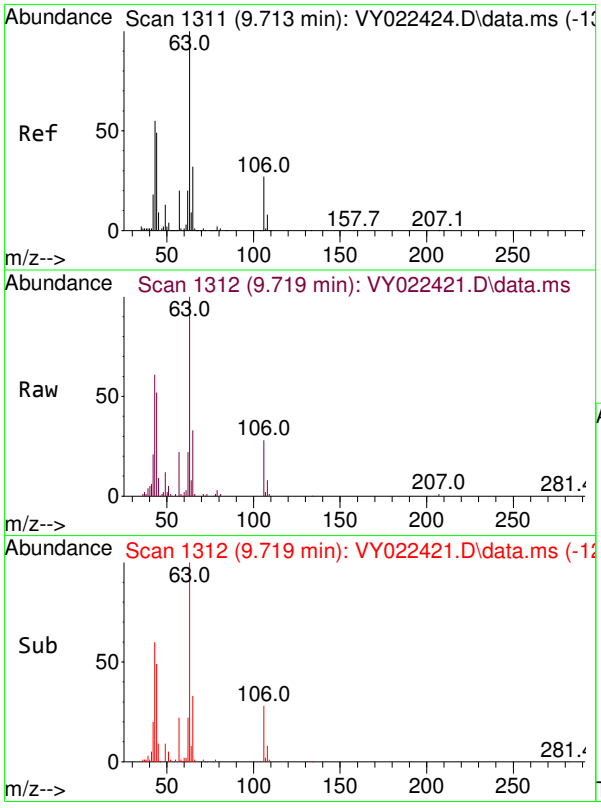
Ion	Ratio	Lower	Upper
76	100		
78	36.6	25.8	38.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

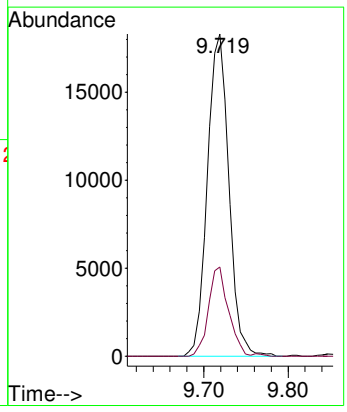
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

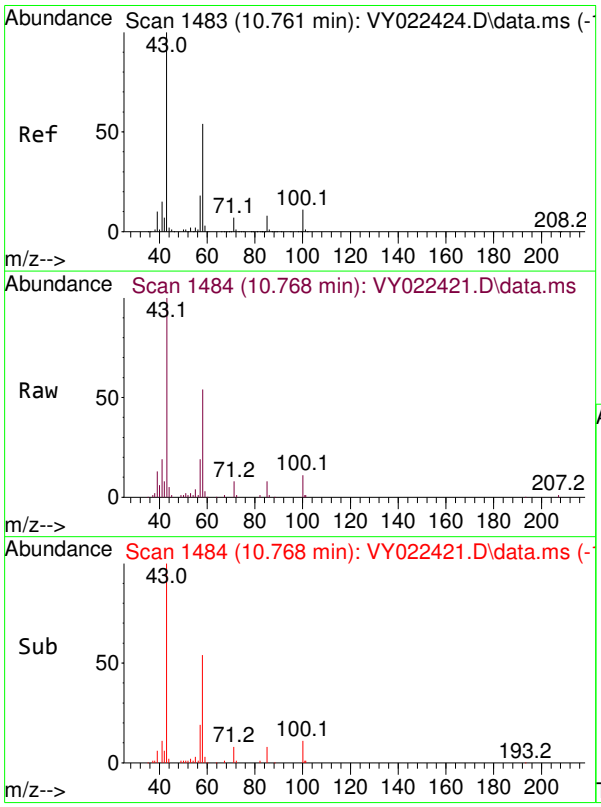


#58
2-Chloroethyl Vinyl ether
Concen: 21.845 ug/l
RT: 9.719 min Scan# 1312
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 63 Resp: 32506

Ion	Ratio	Lower	Upper
63	100		
106	25.7	22.2	33.2





#59
2-Hexanone
Concen: 21.739 ug/l
RT: 10.768 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

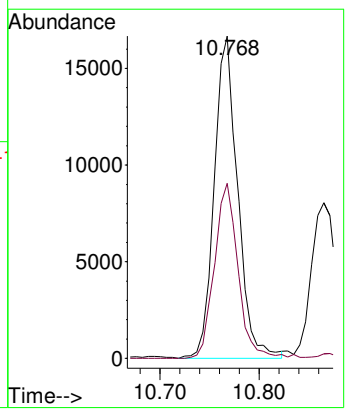
Tgt Ion: 43 Resp: 2750

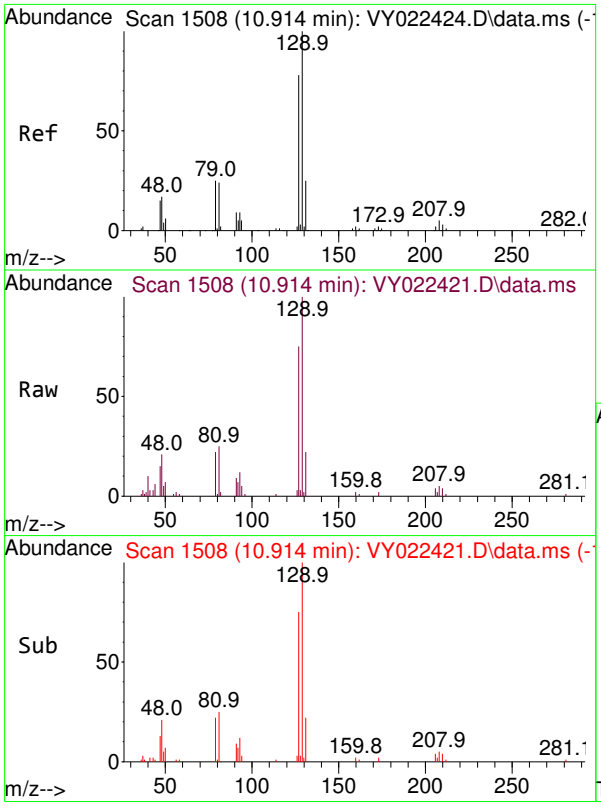
Ion	Ratio	Lower	Upper
43	100		
58	55.0	27.1	81.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

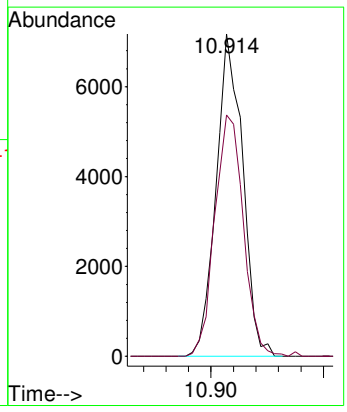


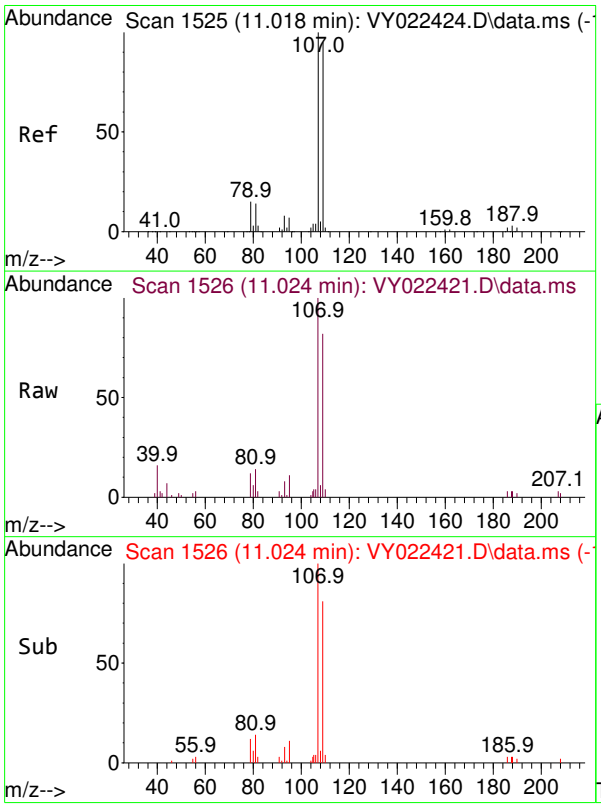


#60
Dibromochloromethane
Concen: 4.405 ug/l
RT: 10.914 min Scan# 1508
Delta R.T. 0.000 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion:129 Resp: 11708

Ion	Ratio	Lower	Upper
129	100		
127	81.0	38.3	114.8





#61
1,2-Dibromoethane
Concen: 4.739 ug/l
RT: 11.024 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

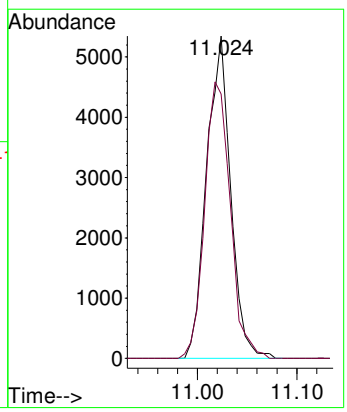
Tgt Ion:107 Resp: 901

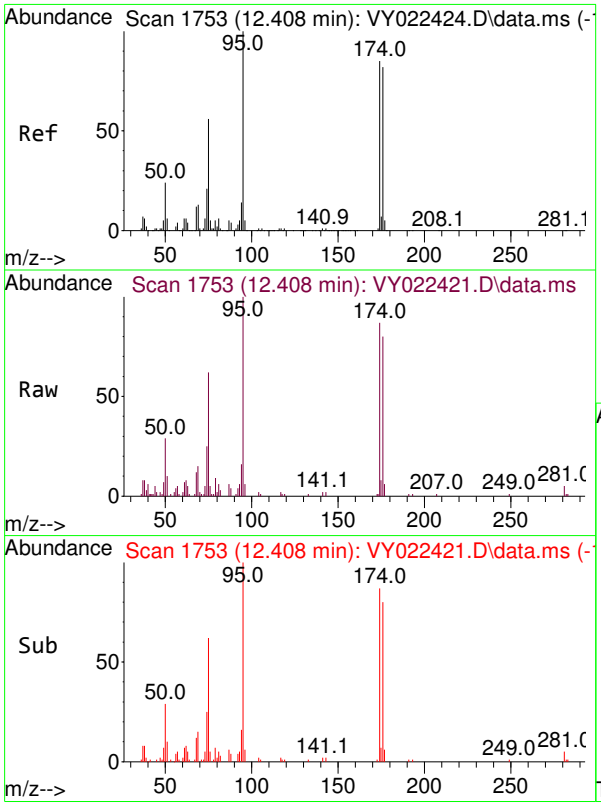
Ion	Ratio	Lower	Upper
107	100		
109	91.5	74.0	111.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

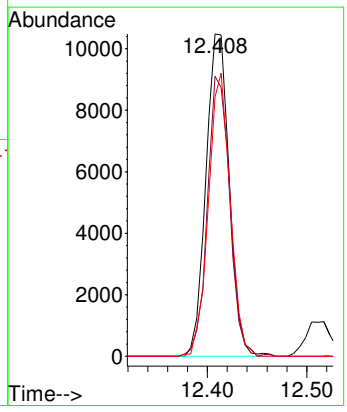


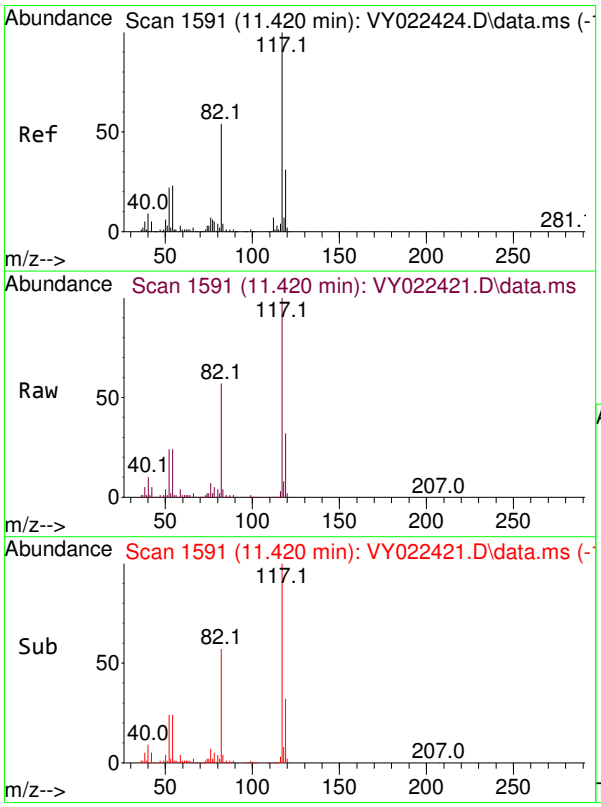


#62
4-Bromofluorobenzene
Concen: 5.226 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 95 Resp: 17111

Ion	Ratio	Lower	Upper
95	100		
174	83.1	0.0	171.6
176	82.2	0.0	164.6





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

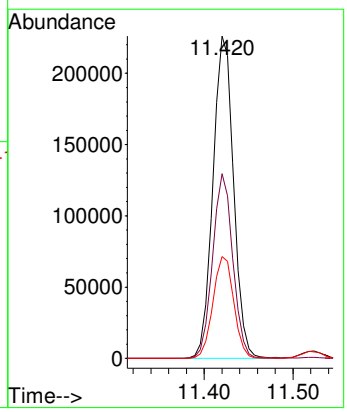
Tgt Ion:117 Resp: 3662

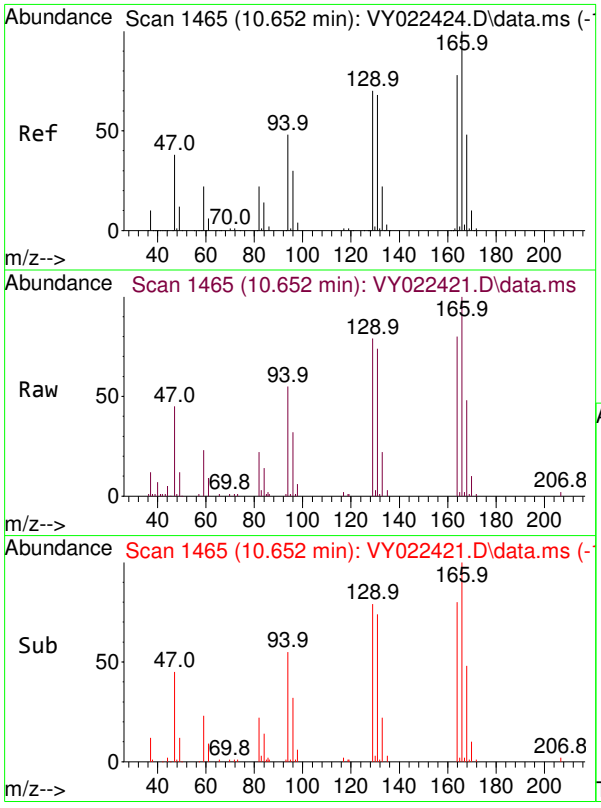
Ion	Ratio	Lower	Upper
117	100		
82	57.2	43.3	64.9
119	31.6	24.5	36.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

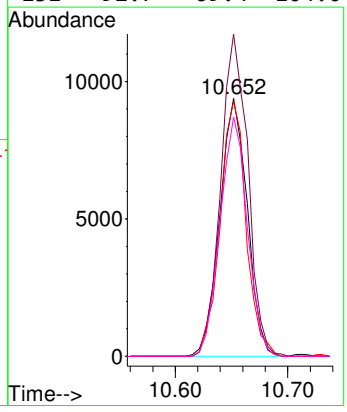


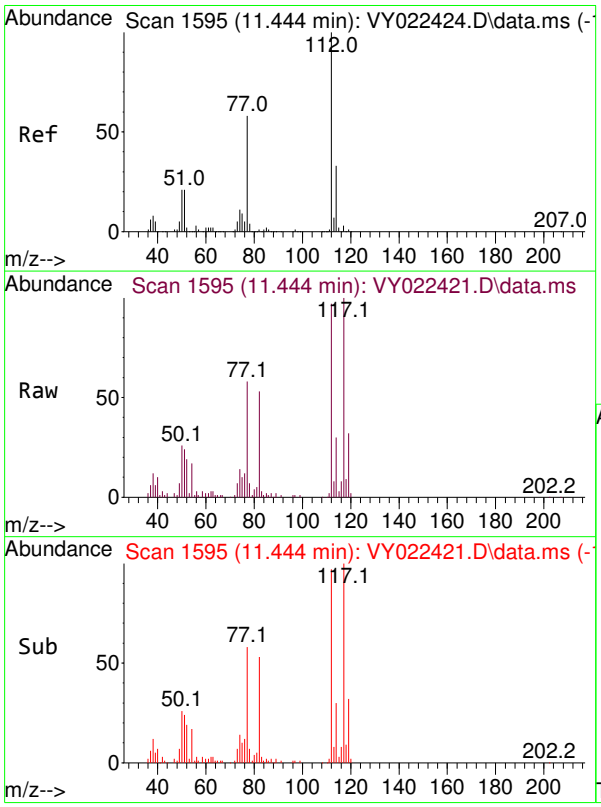


#64
Tetrachloroethene
Concen: 5.090 ug/l
RT: 10.652 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion:164 Resp: 15876

Ion	Ratio	Lower	Upper
164	100		
166	125.0	102.0	153.0
129	98.8	71.3	106.9
131	92.7	69.4	104.0





#65
Chlorobenzene
Concen: 4.785 ug/l
RT: 11.444 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

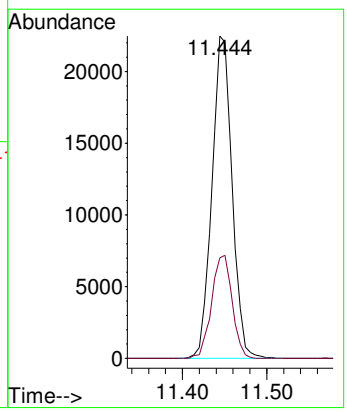
Tgt Ion:112 Resp: 3736

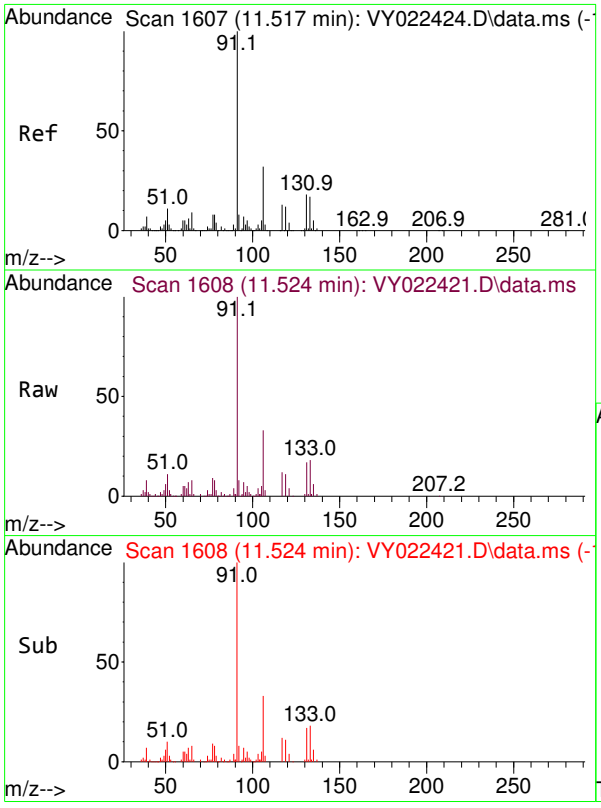
Ion	Ratio	Lower	Upper
112	100		
114	31.2	26.1	39.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

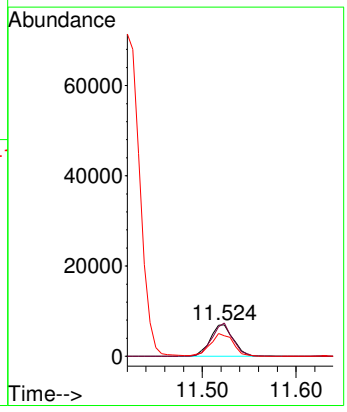


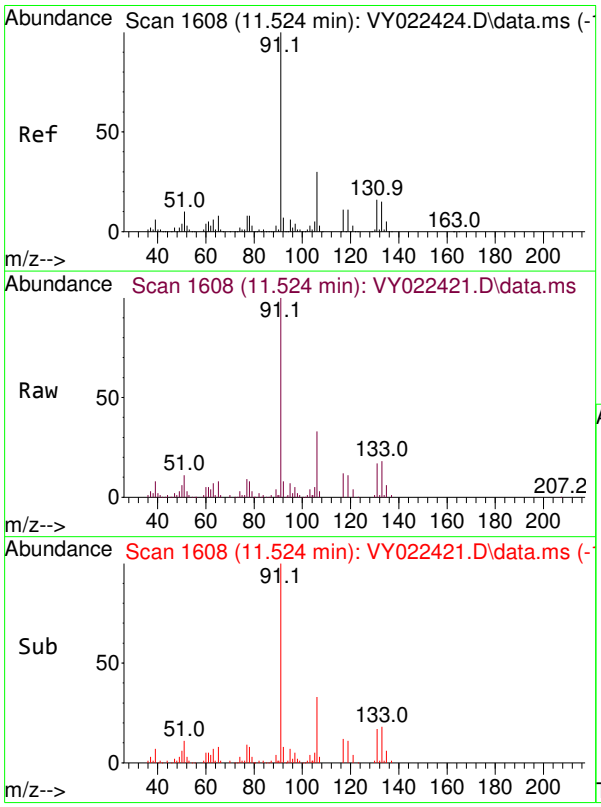


#66
1,1,1,2-Tetrachloroethane
Concen: 4.508 ug/l
RT: 11.524 min Scan# 1608
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion:131 Resp: 11929

Ion	Ratio	Lower	Upper
131	100		
133	96.1	46.6	139.8
119	72.1	33.3	99.8





#67
Ethyl Benzene
Concen: 4.603 ug/l
RT: 11.524 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

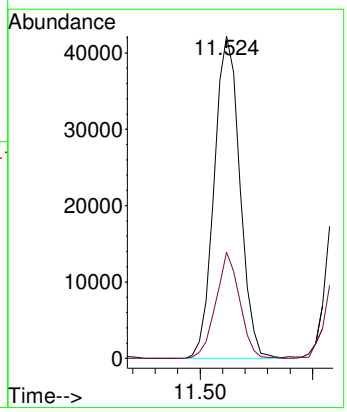
Tgt Ion: 91 Resp: 6675

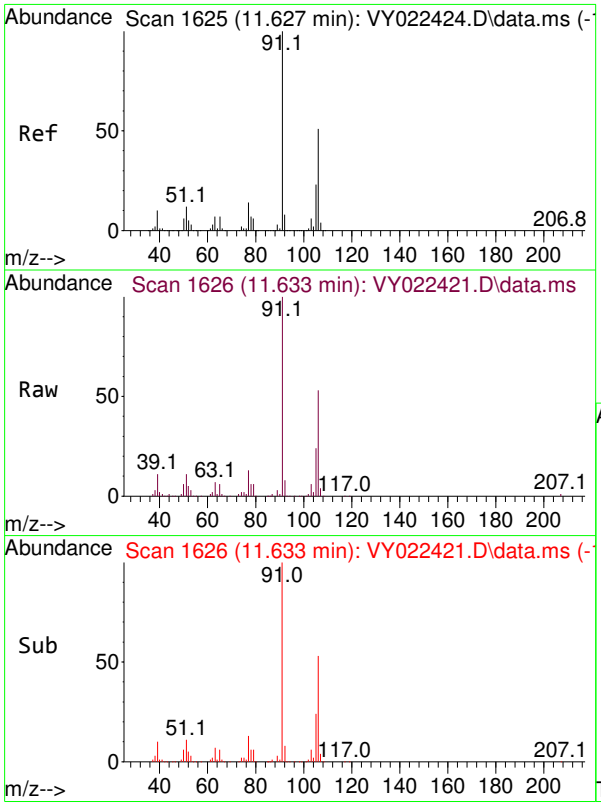
Ion	Ratio	Lower	Upper
91	100		
106	32.9	24.4	36.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

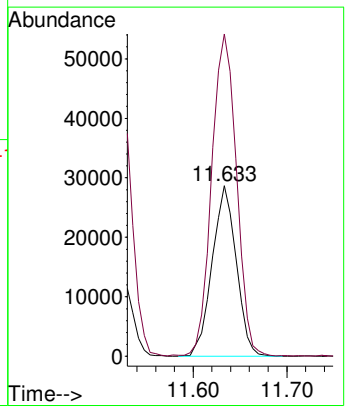


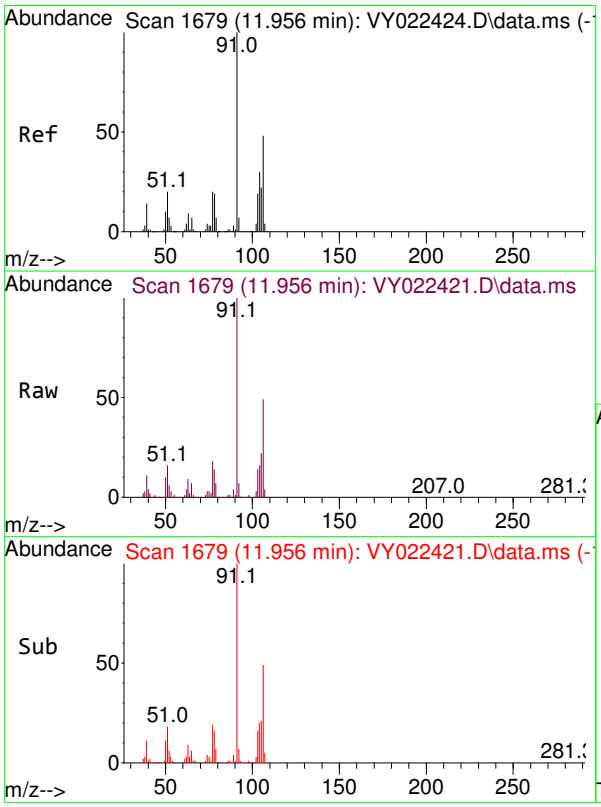


#68
m/p-Xylenes
Concen: 9.296 ug/l
RT: 11.633 min Scan# 1626
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion:106 Resp: 51109

Ion	Ratio	Lower	Upper
106	100		
91	194.5	159.8	239.8





#69
o-Xylene
Concen: 4.633 ug/l
RT: 11.956 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

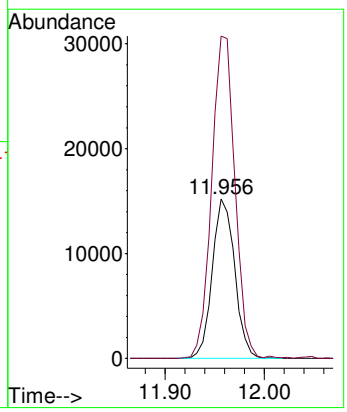
Tgt Ion:106 Resp: 2394

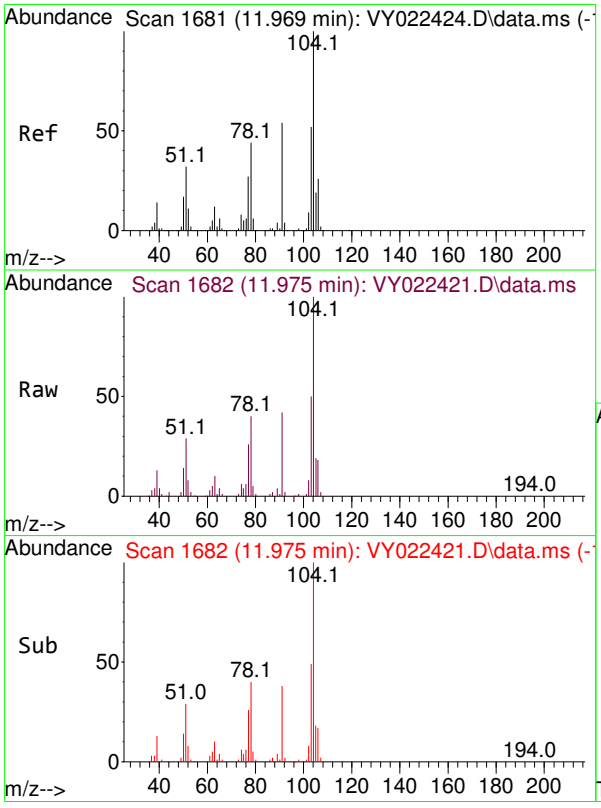
Ion	Ratio	Lower	Upper
106	100		
91	209.5	106.3	318.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

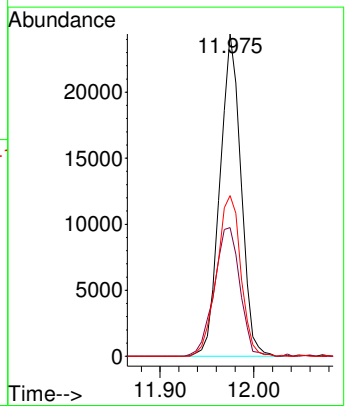


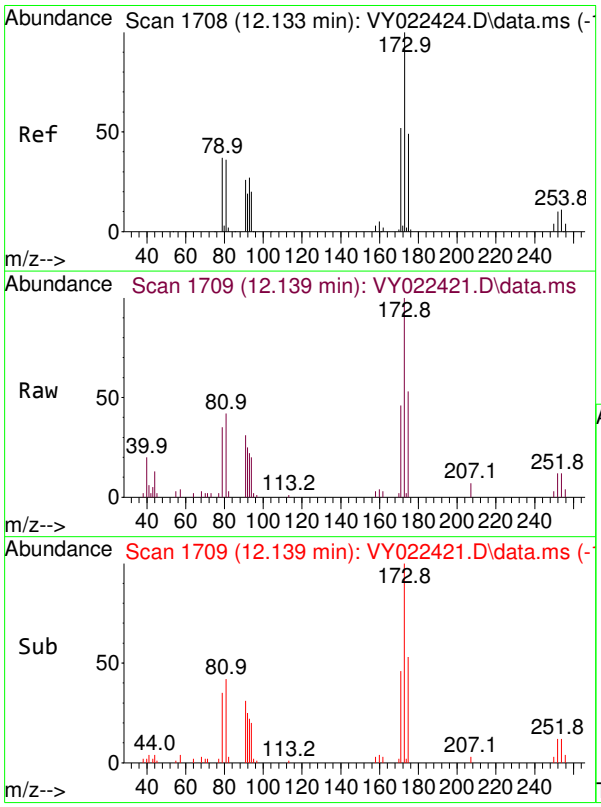


#70
Styrene
Concen: 4.414 ug/l
RT: 11.975 min Scan# 1682
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion:104 Resp: 37982

Ion	Ratio	Lower	Upper
104	100		
78	48.9	38.8	58.2
103	57.0	43.4	65.2





#71
Bromoform
Concen: 4.459 ug/l
RT: 12.139 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion:173 Resp: 618

Ion	Ratio	Lower	Upper
173	100		
175	48.2	24.3	73.0
254	0.0	0.1	0.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
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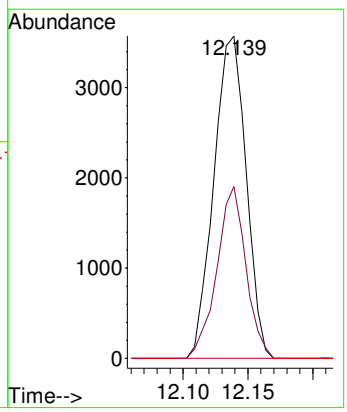
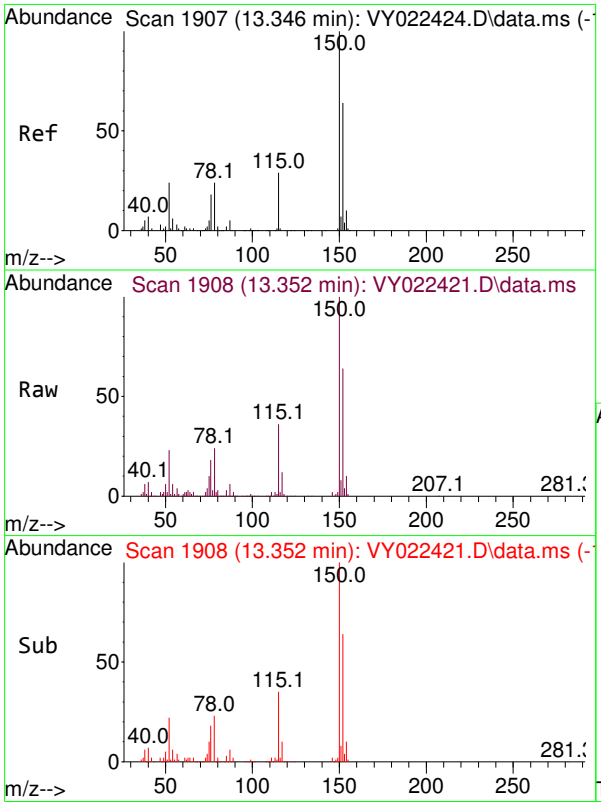
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

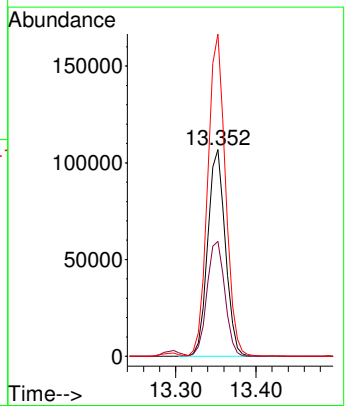


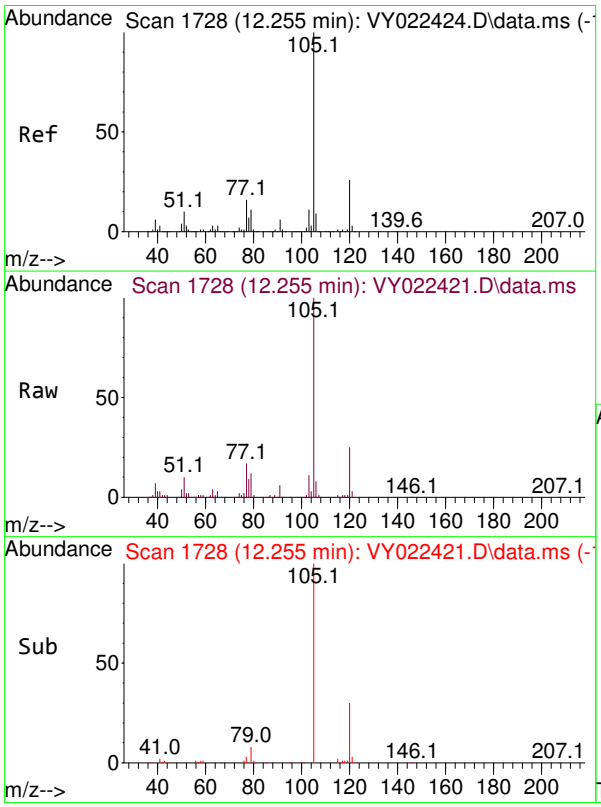


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.352 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion:152 Resp: 162324

Ion	Ratio	Lower	Upper
152	100		
115	56.6	28.4	85.3
150	157.7	0.0	345.8





#73
Isopropylbenzene
Concen: 4.908 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion:105 Resp: 6270

Ion	Ratio	Lower	Upper
105	100		
120	26.8	13.2	39.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Amit Patel 05/28/2025
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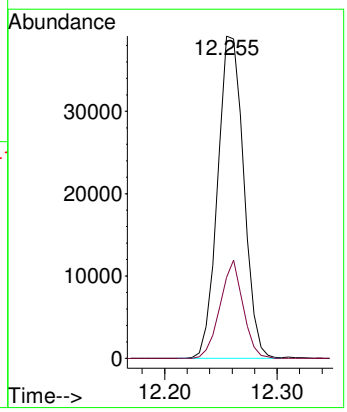
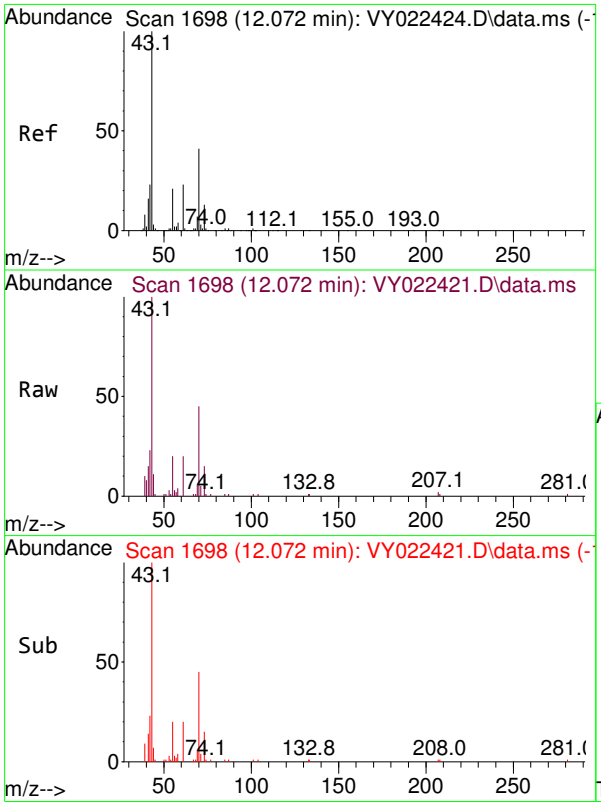
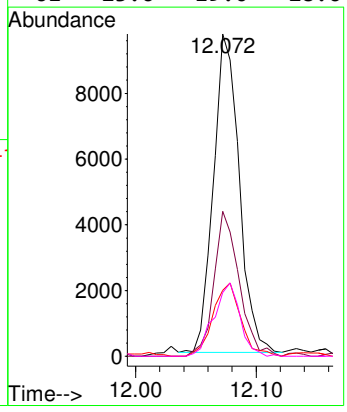


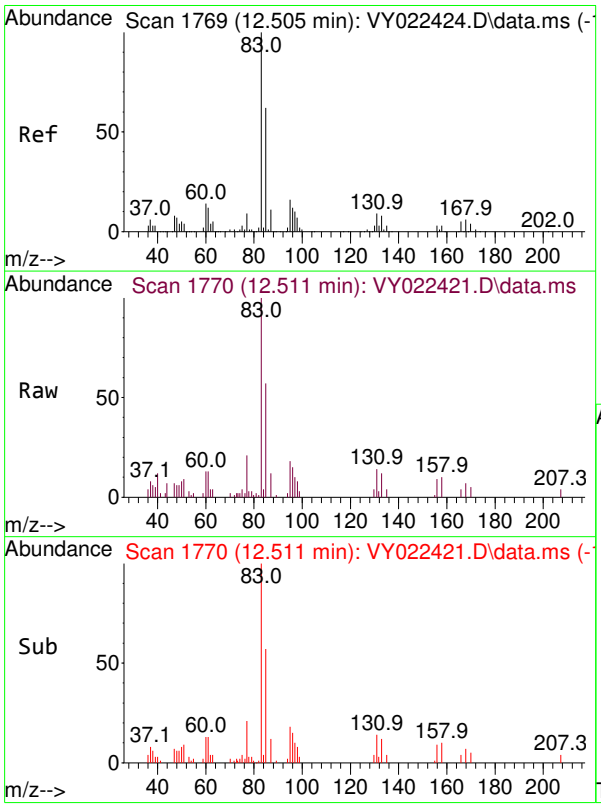


#74
N-amyl acetate
Concen: 4.584 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 43 Resp: 14329

Ion	Ratio	Lower	Upper
43	100		
70	44.4	33.0	49.4
55	25.0	17.5	26.3
61	23.6	19.0	28.6





#75
1,1,2,2-Tetrachloroethane
Concen: 5.021 ug/l
RT: 12.511 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 83 Resp: 1010

Ion	Ratio	Lower	Upper
83	100		
131	10.7	4.8	14.4
85	60.9	32.0	96.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

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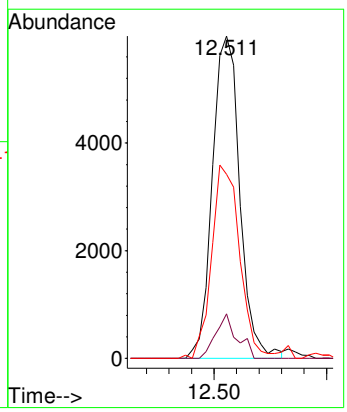
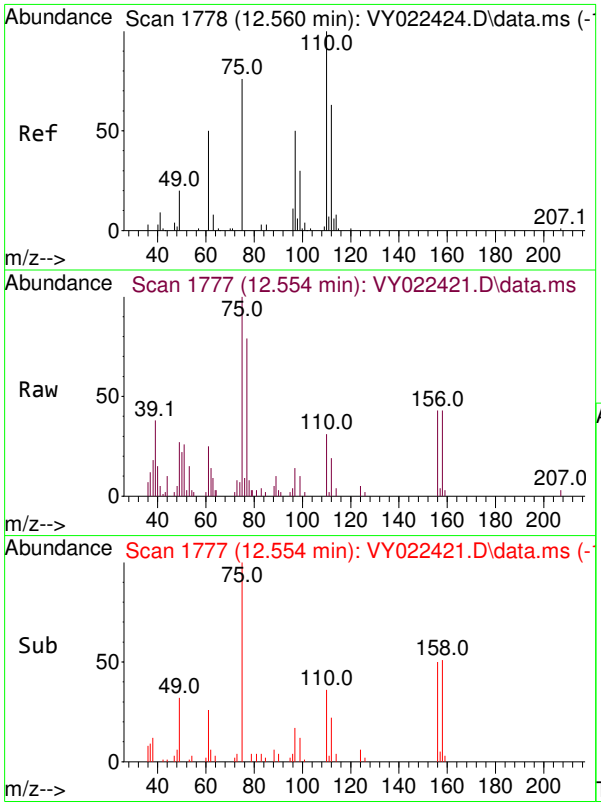
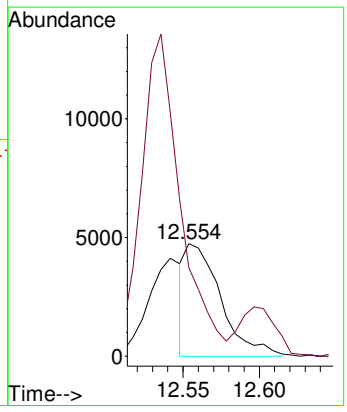


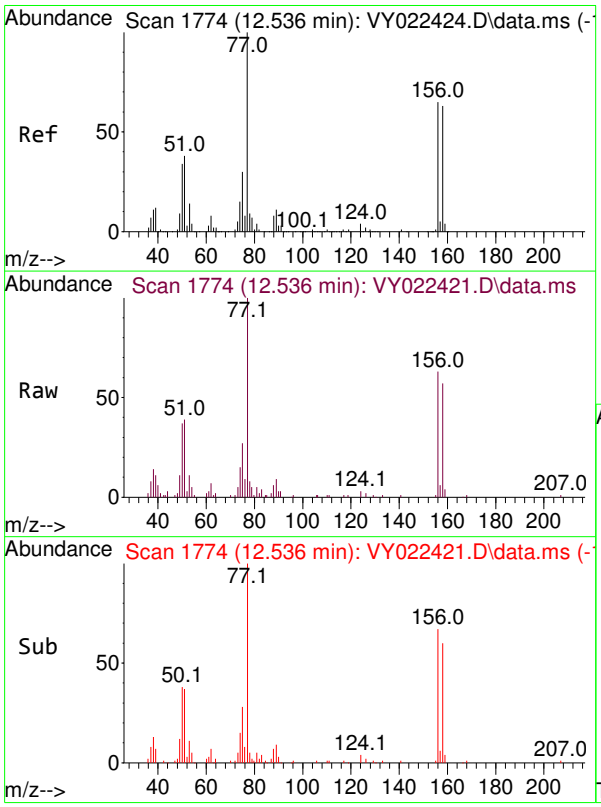


#76
1,2,3-Trichloropropane
Concen: 2.848 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. -0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 75 Resp: 7617

Ion	Ratio	Lower	Upper
75	100		
77	319.1	0.0	0.0#





#77
Bromobenzene
Concen: 4.747 ug/l
RT: 12.536 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion:156 Resp: 1305

Ion	Ratio	Lower	Upper
156	100		
77	186.2	91.4	274.2
158	96.2	48.1	144.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

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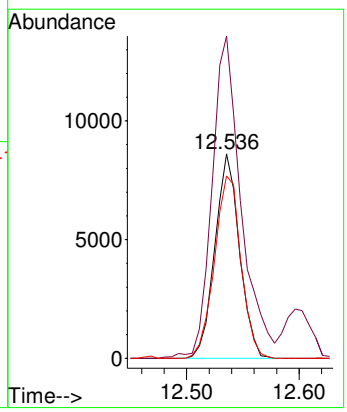
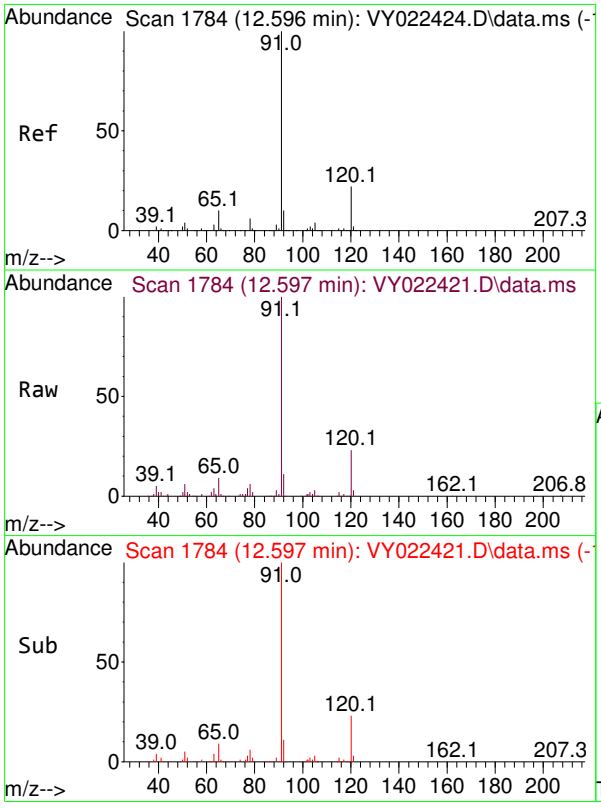
Supervised By :Mahesh Dadoda 05/28/2025

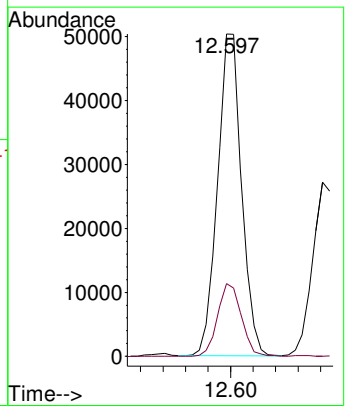


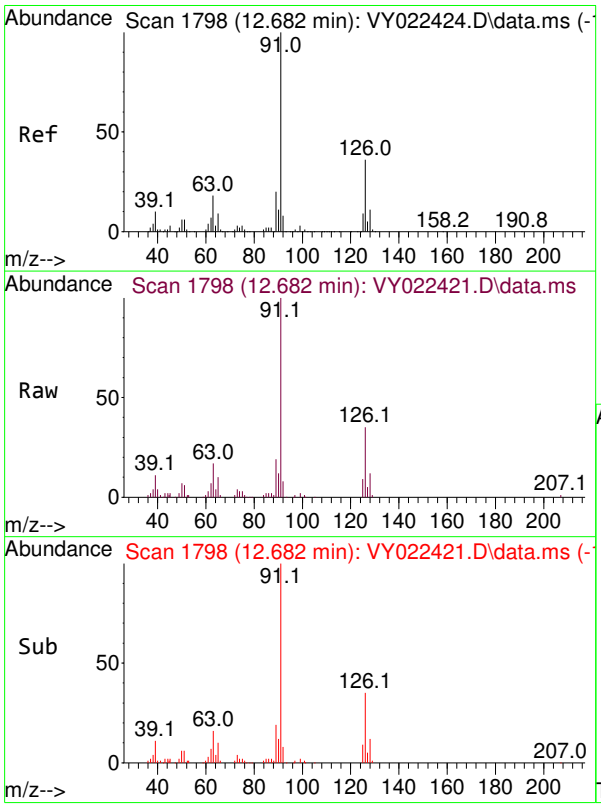


#78
n-propylbenzene
Concen: 4.856 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 91 Resp: 74444

Ion	Ratio	Lower	Upper
91	100		
120	22.3	11.2	33.5





#79
2-Chlorotoluene
Concen: 5.002 ug/l
RT: 12.682 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 91 Resp: 4151

Ion	Ratio	Lower	Upper
91	100		
126	34.2	17.4	52.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

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Reviewed By :Amit Patel 05/28/2025
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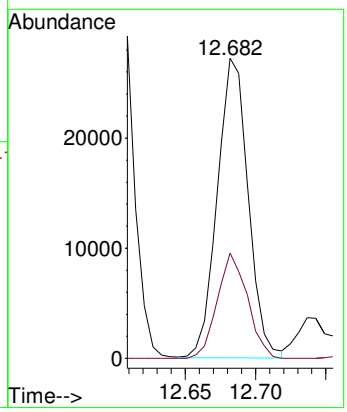
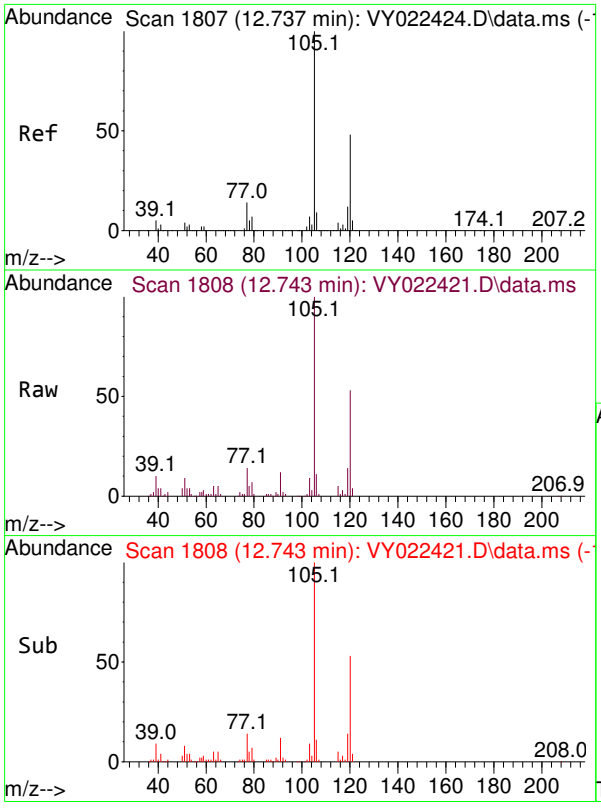
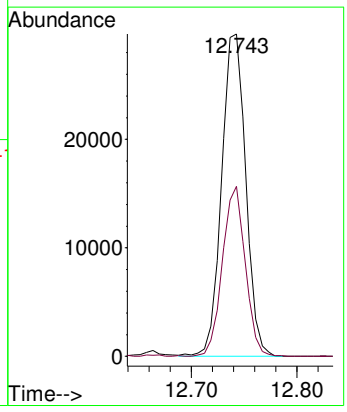


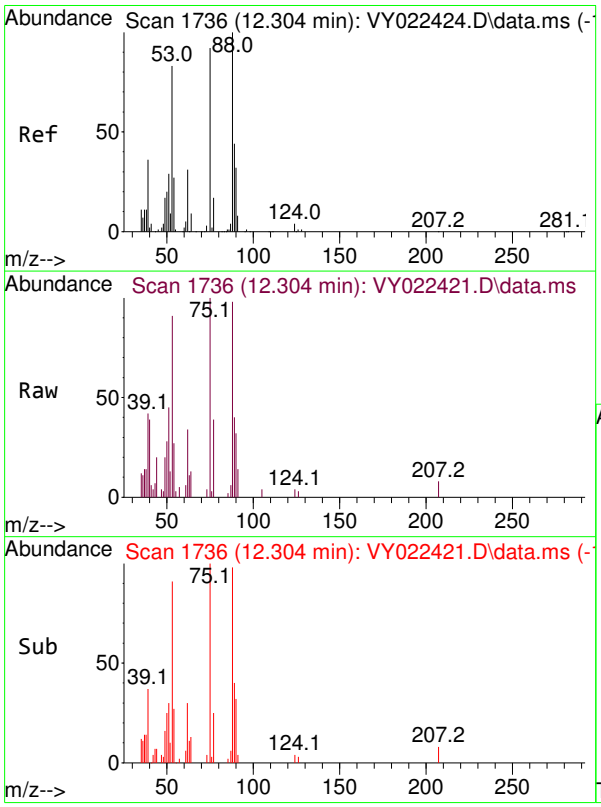


#80
1,3,5-Trimethylbenzene
Concen: 4.743 ug/l
RT: 12.743 min Scan# 1808
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion:105 Resp: 47346

Ion	Ratio	Lower	Upper
105	100		
120	50.0	24.3	73.0

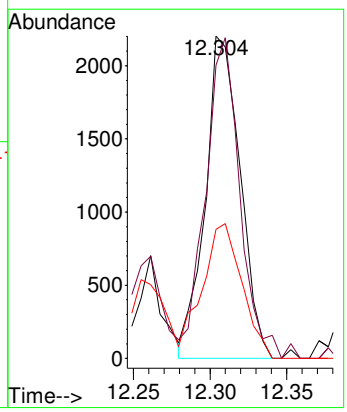




#81
trans-1,4-Dichloro-2-butene
Concen: 4.857 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 75 Resp: 349

Ion	Ratio	Lower	Upper
75	100		
53	98.1	75.1	112.7
89	47.7	37.4	56.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
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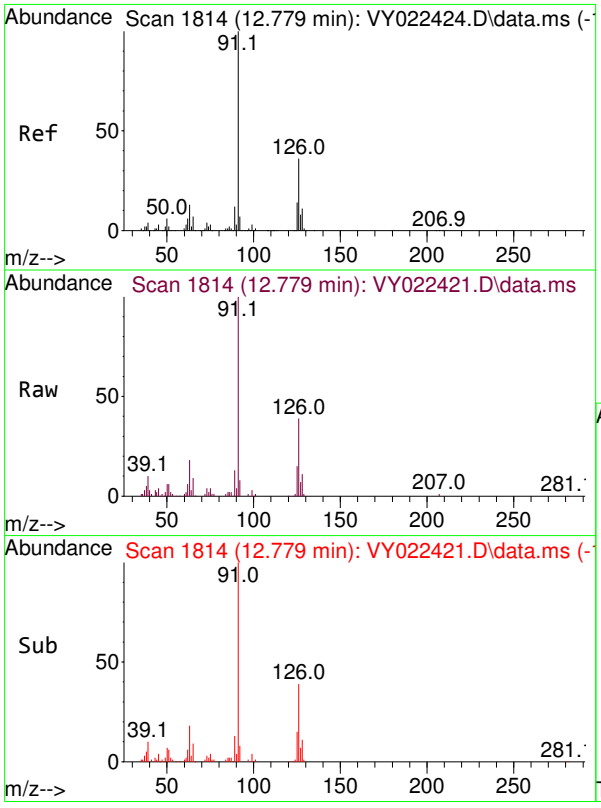
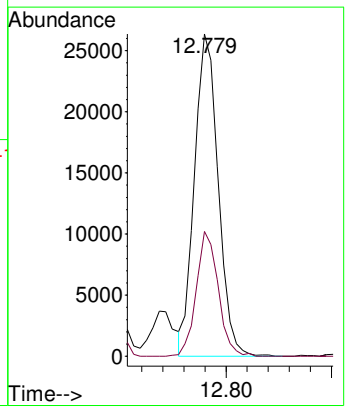
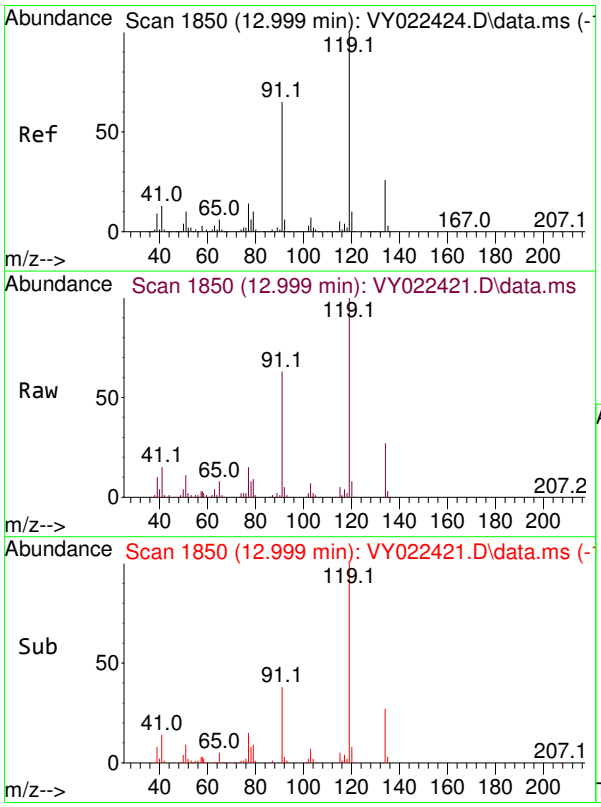


#82
4-Chlorotoluene
Concen: 4.801 ug/l
RT: 12.779 min Scan# 1814
Delta R.T. 0.000 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 91 Resp: 41039

Ion	Ratio	Lower	Upper
91	100		
126	36.0	17.2	51.6





#83
tert-Butylbenzene
Concen: 4.951 ug/l
RT: 12.999 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion:119 Resp: 4465

Ion	Ratio	Lower	Upper
119	100		
91	61.4	31.8	95.3
134	25.6	13.0	38.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
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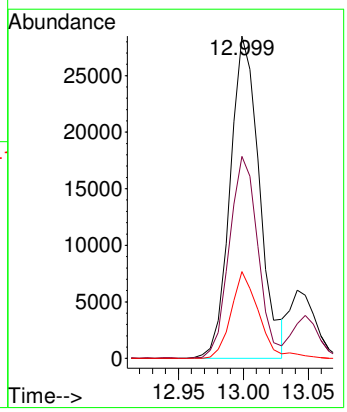
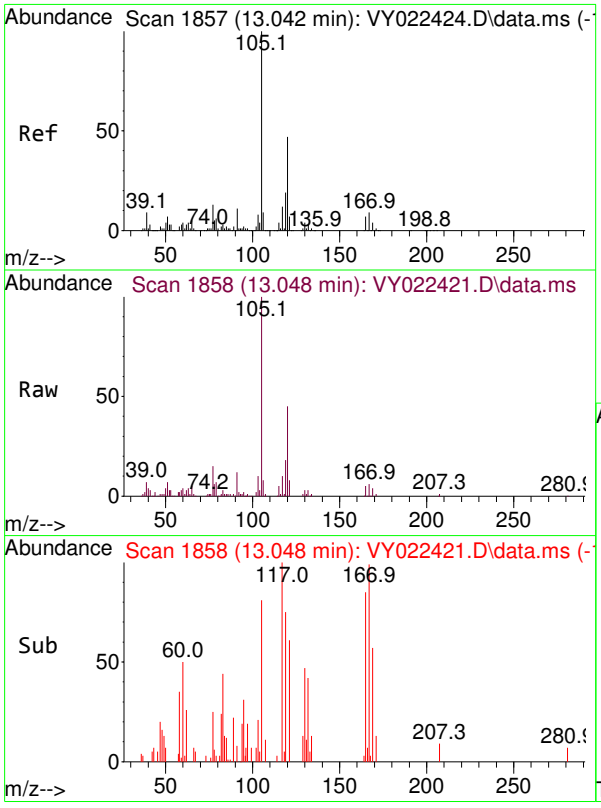
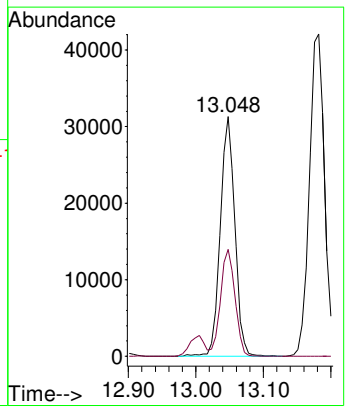


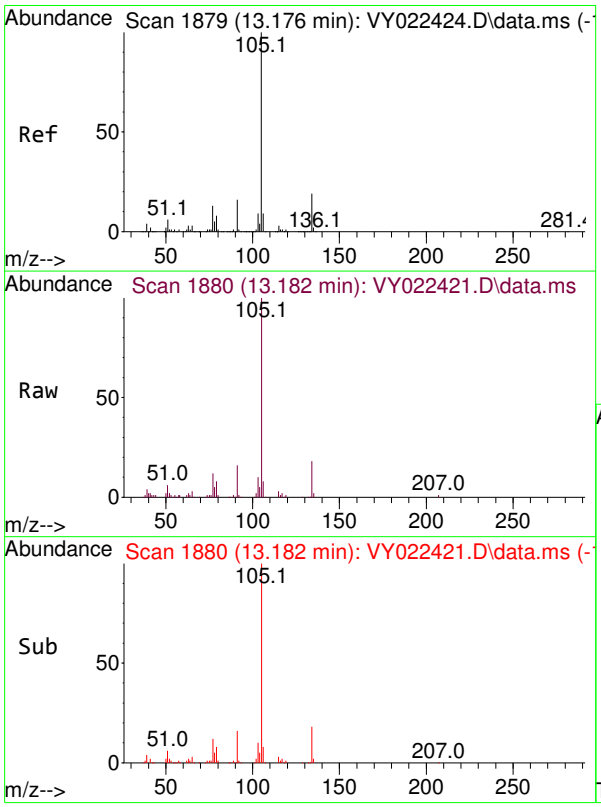


#84
1,2,4-Trimethylbenzene
Concen: 4.699 ug/l
RT: 13.048 min Scan# 1858
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion:105 Resp: 47206

Ion	Ratio	Lower	Upper
105	100		
120	44.5	22.9	68.5





#85
sec-Butylbenzene
Concen: 4.897 ug/l
RT: 13.182 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion:105 Resp: 6549

Ion	Ratio	Lower	Upper
105	100		
134	19.5	9.7	29.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

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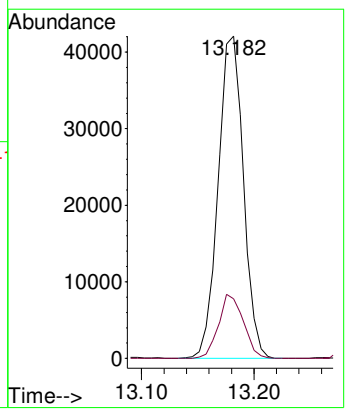
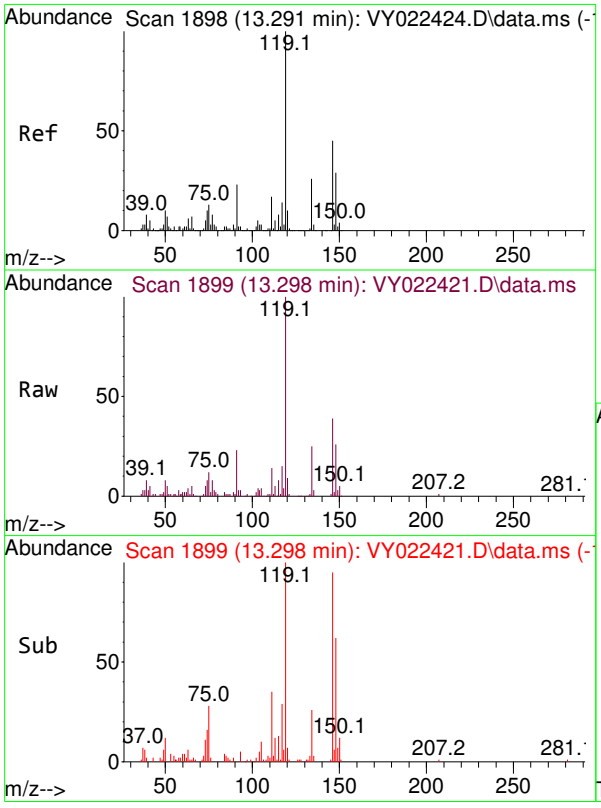
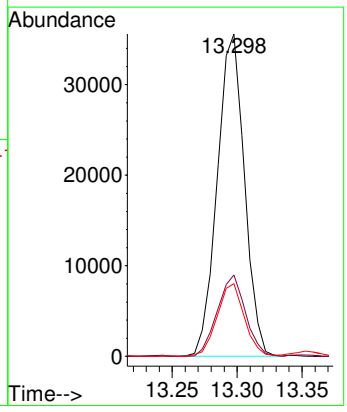


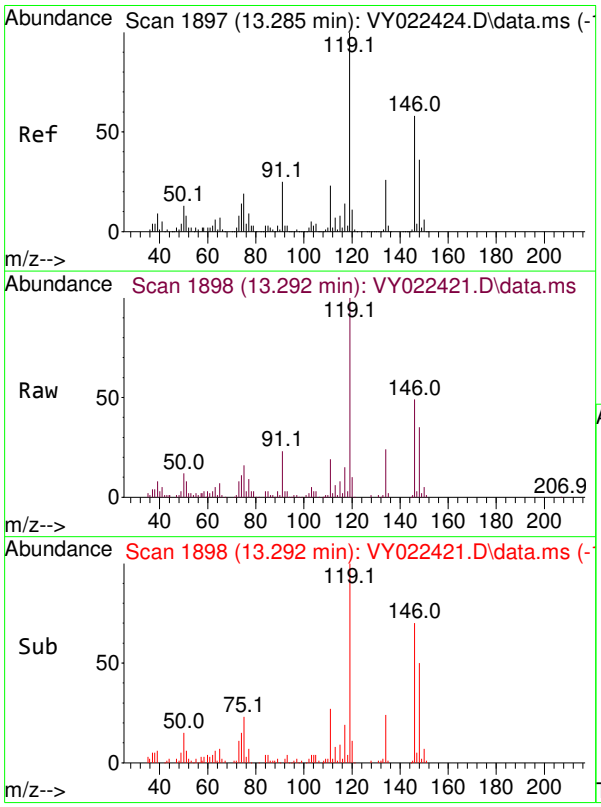


#86
p-Isopropyltoluene
Concen: 4.643 ug/l
RT: 13.298 min Scan# 1899
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion:119 Resp: 51853

Ion	Ratio	Lower	Upper
119	100		
134	26.1	13.0	39.0
91	22.6	11.6	34.8





#87
1,3-Dichlorobenzene
Concen: 4.657 ug/l
RT: 13.292 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion:146 Resp: 2576

Ion	Ratio	Lower	Upper
146	100		
111	37.8	19.6	58.8
148	63.7	31.7	95.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
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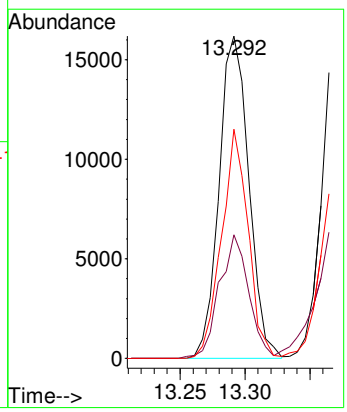
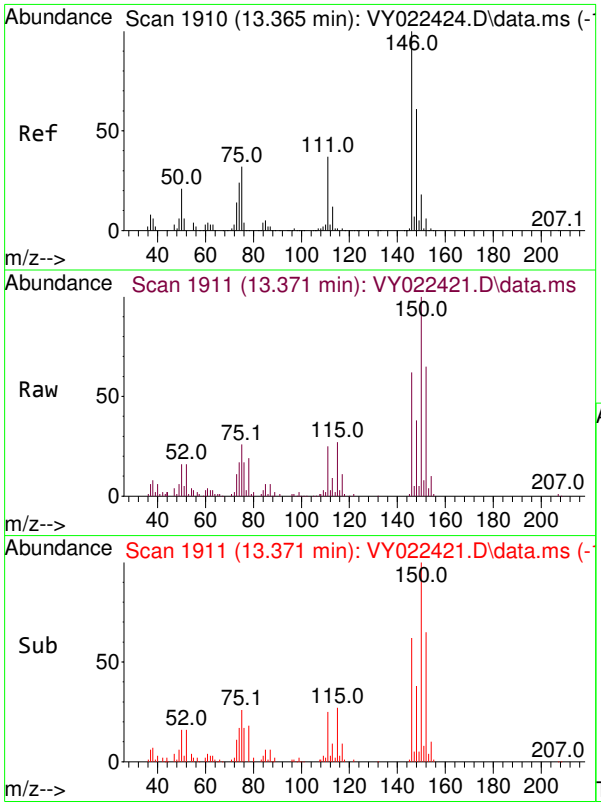
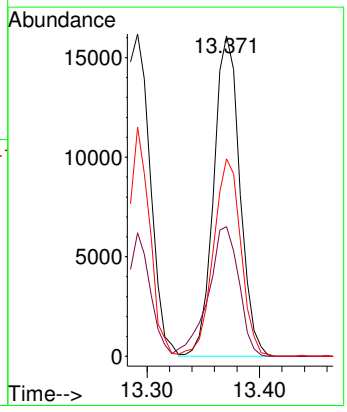


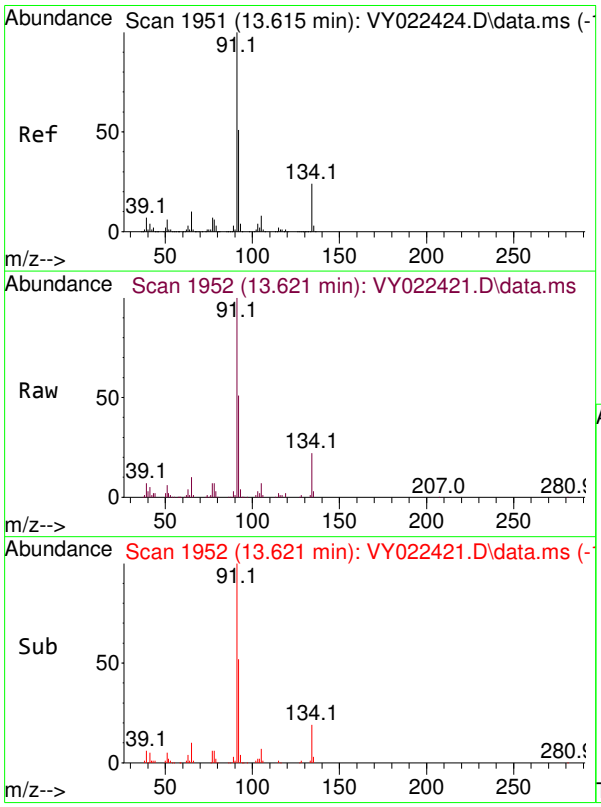


#88
1,4-Dichlorobenzene
Concen: 4.899 ug/l
RT: 13.371 min Scan# 1911
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion:146 Resp: 25910

Ion	Ratio	Lower	Upper
146	100		
111	47.4	18.7	56.1
148	64.9	31.4	94.3

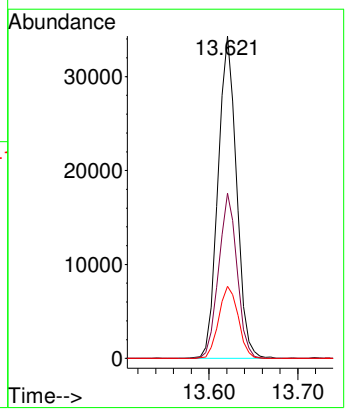




#89
n-Butylbenzene
Concen: 4.792 ug/l
RT: 13.621 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 91 Resp: 5017

Ion	Ratio	Lower	Upper
91	100		
92	50.7	25.9	77.6
134	23.5	12.4	37.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

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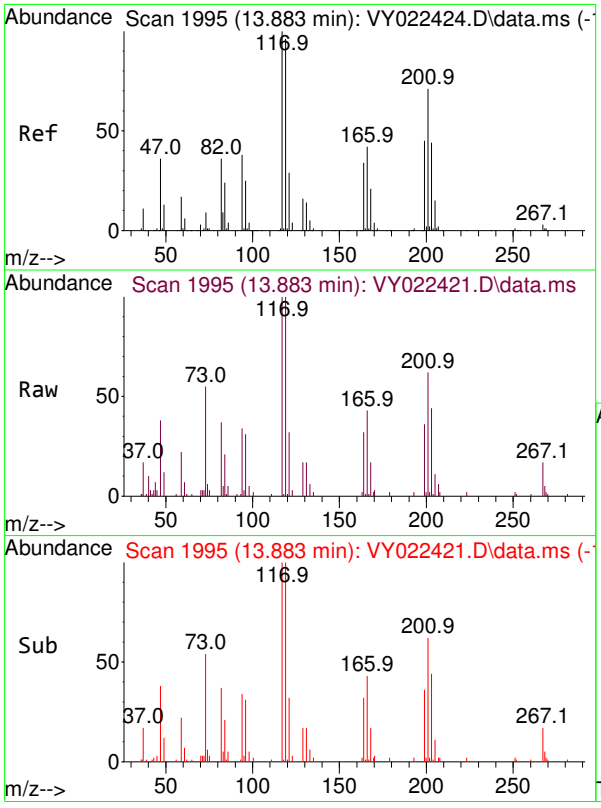
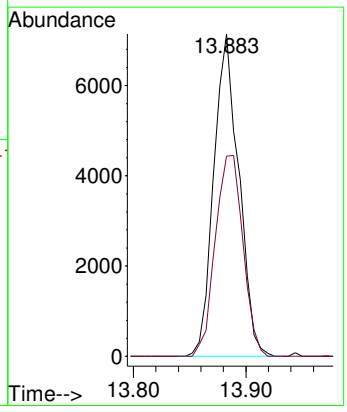
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

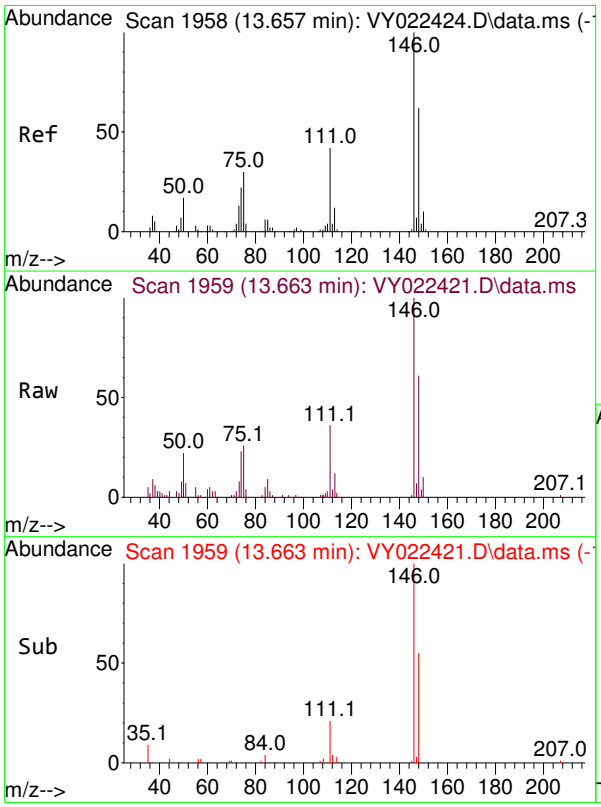


#90
Hexachloroethane
Concen: 4.958 ug/l
RT: 13.883 min Scan# 1995
Delta R.T. 0.000 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion:117 Resp: 11019

Ion	Ratio	Lower	Upper
117	100		
201	68.9	35.0	105.0

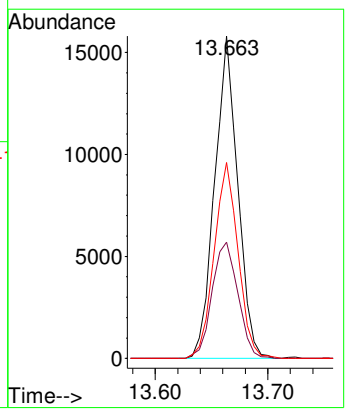




#91
1,2-Dichlorobenzene
Concen: 4.860 ug/l
RT: 13.663 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion:146 Resp: 2245

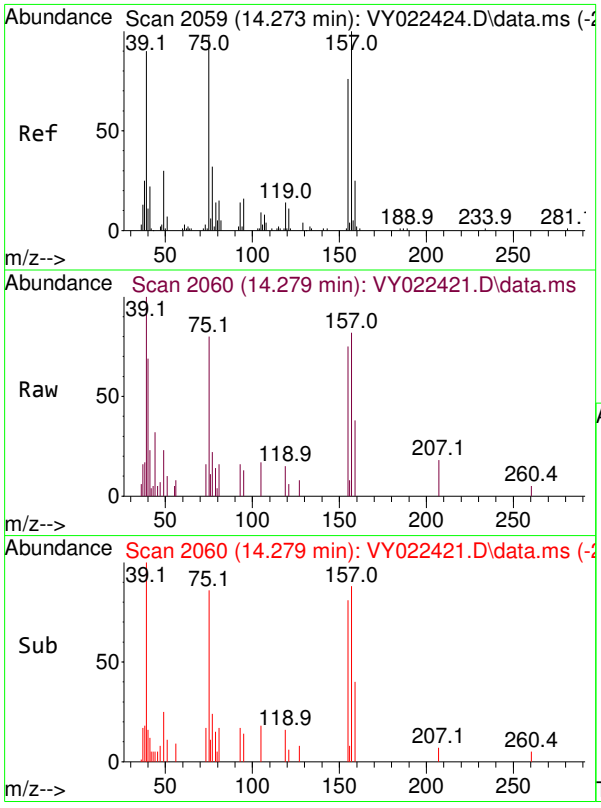
Ion	Ratio	Lower	Upper
146	100		
111	40.4	20.5	61.6
148	63.1	31.9	95.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

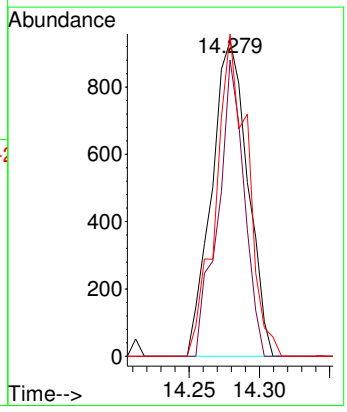
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

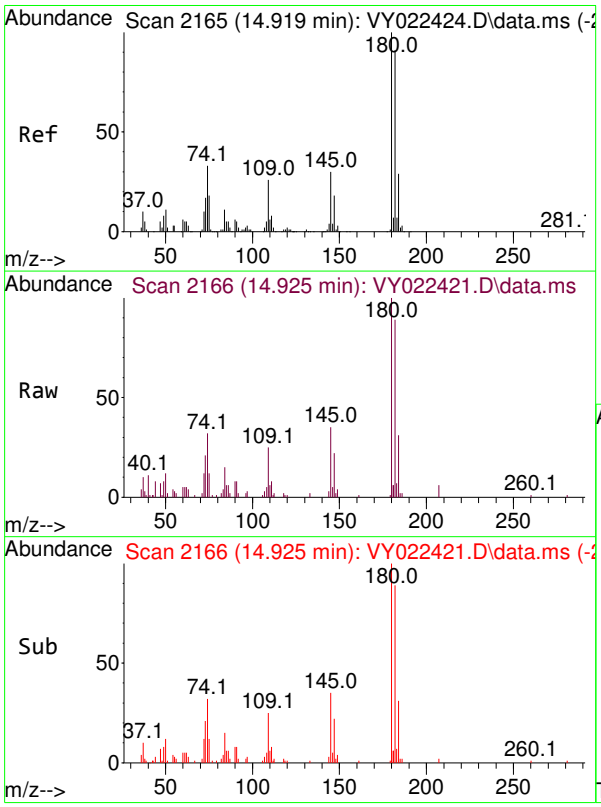


#92
1,2-Dibromo-3-Chloropropane
Concen: 5.360 ug/l
RT: 14.279 min Scan# 2060
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 75 Resp: 1667

Ion	Ratio	Lower	Upper
75	100		
155	68.2	42.3	126.8
157	90.4	54.4	163.3

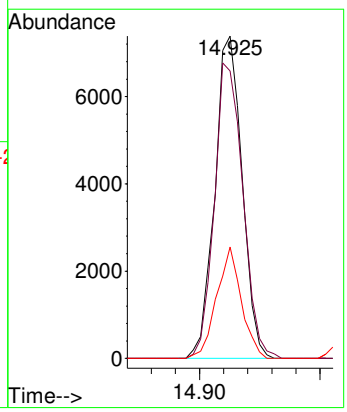




#93
1,2,4-Trichlorobenzene
Concen: 4.525 ug/l
RT: 14.925 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion:180 Resp: 1159

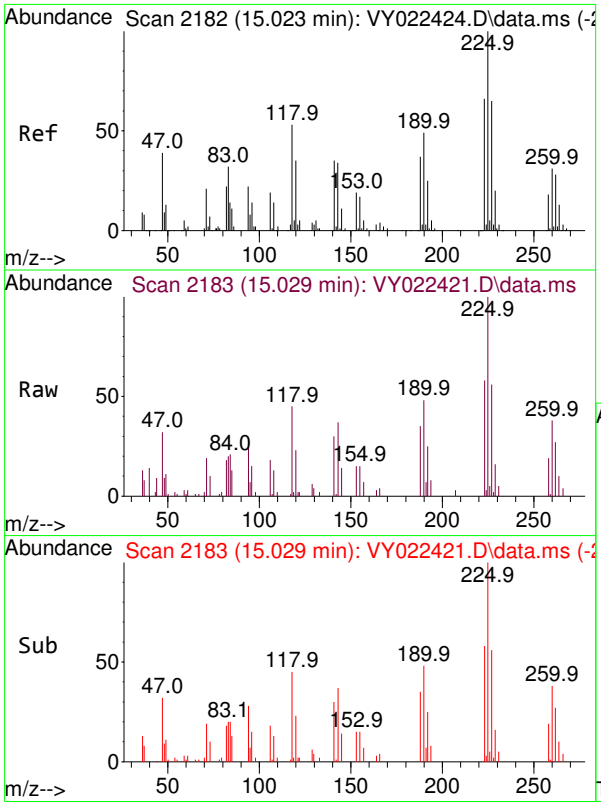
Ion	Ratio	Lower	Upper
180	100		
182	95.5	46.2	138.6
145	31.3	14.2	42.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

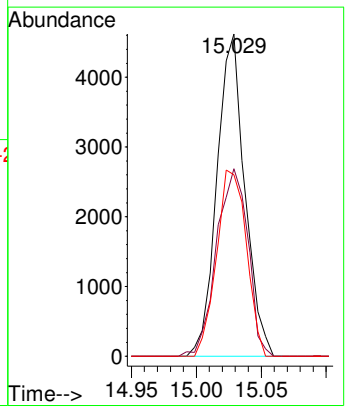
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

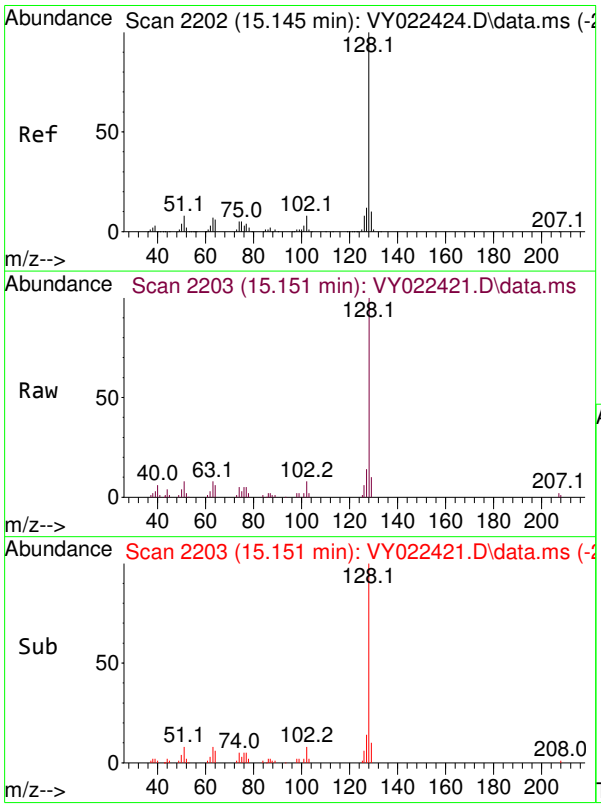


#94
Hexachlorobutadiene
Concen: 5.128 ug/l
RT: 15.029 min Scan# 2183
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion:225 Resp: 6893

Ion	Ratio	Lower	Upper
225	100		
223	65.4	32.6	97.7
227	61.8	33.0	99.0





#95
Naphthalene
Concen: 4.237 ug/l
RT: 15.151 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

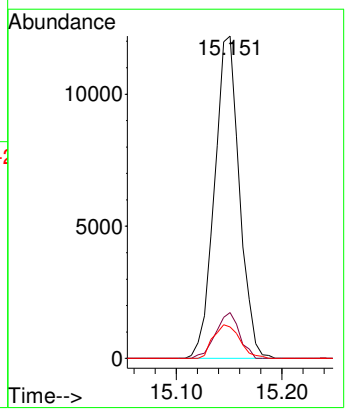
Tgt Ion:128 Resp: 2006

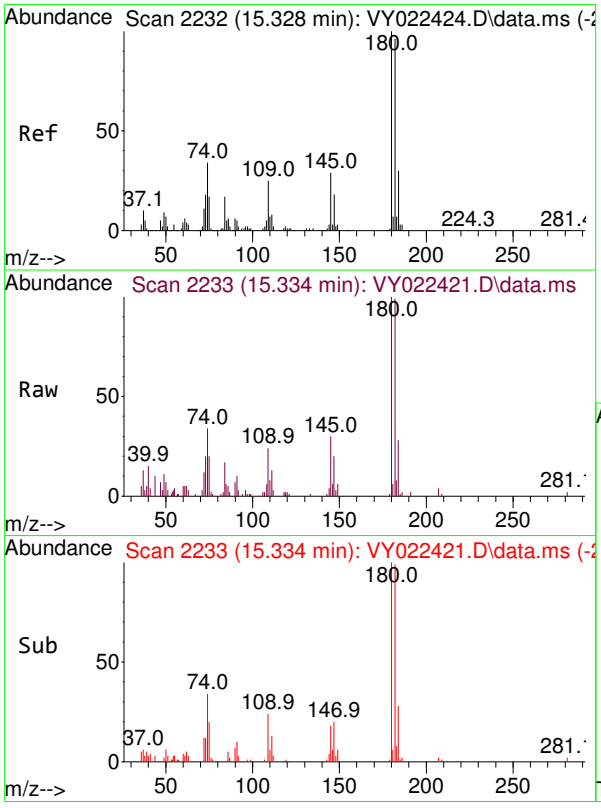
Ion	Ratio	Lower	Upper
128	100		
127	13.7	10.2	15.4
129	11.2	8.5	12.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

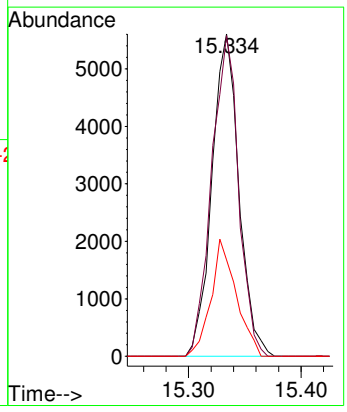




#96
1,2,3-Trichlorobenzene
Concen: 4.445 ug/l
RT: 15.334 min Scan# 2233
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion:180 Resp: 9338

Ion	Ratio	Lower	Upper
180	100		
182	99.4	48.1	144.3
145	33.9	14.9	44.5



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022422.D
Acq On : 27 May 2025 09:14
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

Quant Time: May 28 09:43:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 09:30:53 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	256391	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.622	114	436685	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	362684	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	162991	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	26927	9.971	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	19.940%#		
35) Dibromofluoromethane	7.640	113	24509	9.584	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	19.160%#		
50) Toluene-d8	10.109	98	98965	9.493	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	18.980%#		
62) 4-Bromofluorobenzene	12.408	95	28894	9.163	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	18.320%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	26076	10.660	ug/l	95
3) Chloromethane	2.068	50	68253	11.343	ug/l	98
4) Vinyl Chloride	2.208	62	76561	10.474	ug/l	96
5) Bromomethane	2.598	94	65697	9.890	ug/l	97
6) Chloroethane	2.745	64	45164	9.455	ug/l	98
7) Trichlorofluoromethane	3.056	101	60209	9.763	ug/l	100
8) Diethyl Ether	3.464	74	14042	9.875	ug/l	93
9) 1,1,2-Trichlorotrifluo...	3.824	101	26527	9.804	ug/l	99
10) Methyl Iodide	4.013	142	26870	8.803	ug/l	97
11) Tert butyl alcohol	4.897	59	9619	50.530	ug/l	97
12) 1,1-Dichloroethene	3.793	96	26273	9.781	ug/l	90
13) Acrolein	3.665	56	13770	48.278	ug/l	97
14) Allyl chloride	4.385	41	38553	9.541	ug/l	94
15) Acrylonitrile	5.068	53	28120	49.059	ug/l	98
16) Acetone	3.873	43	23174	52.221	ug/l	95
17) Carbon Disulfide	4.116	76	85913	10.022	ug/l	100
18) Methyl Acetate	4.397	43	16359	9.841	ug/l	98
19) Methyl tert-butyl Ether	5.122	73	69672	9.769	ug/l	98
20) Methylene Chloride	4.622	84	34301	10.946	ug/l	95
21) trans-1,2-Dichloroethene	5.122	96	28516	9.724	ug/l	94
22) Diisopropyl ether	6.025	45	87002	9.756	ug/l	97
23) Vinyl Acetate	5.970	43	244848	47.816	ug/l	98
24) 1,1-Dichloroethane	5.915	63	50541	9.591	ug/l	97
25) 2-Butanone	6.903	43	36872	49.890	ug/l	96
26) 2,2-Dichloropropane	6.896	77	46164	9.675	ug/l	98
27) cis-1,2-Dichloroethene	6.896	96	33197	9.778	ug/l	99
28) Bromochloromethane	7.250	49	21845	9.927	ug/l	98
29) Tetrahydrofuran	7.268	42	24020	48.732	ug/l	97
30) Chloroform	7.427	83	49760	9.583	ug/l	94
31) Cyclohexane	7.707	56	53552	10.309	ug/l #	94
32) 1,1,1-Trichloroethane	7.622	97	45829	9.725	ug/l	98
36) 1,1-Dichloropropene	7.841	75	38161	9.404	ug/l	98
37) Ethyl Acetate	6.994	43	16222	9.406	ug/l	97
38) Carbon Tetrachloride	7.829	117	39797	9.414	ug/l	92
39) Methylcyclohexane	9.109	83	52603	9.751	ug/l	98
40) Benzene	8.085	78	114576	9.489	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022422.D
Acq On : 27 May 2025 09:14
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

Quant Time: May 28 09:43:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 09:30:53 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.226	41	9438m	4.158	ug/l		
42) 1,2-Dichloroethane	8.165	62	30350	9.517	ug/l		99
43) Isopropyl Acetate	8.207	43	36584	9.707	ug/l		98
44) Trichloroethene	8.872	130	28407	9.516	ug/l		95
45) 1,2-Dichloropropane	9.146	63	26802	9.447	ug/l		98
46) Dibromomethane	9.238	93	14820	9.351	ug/l		98
47) Bromodichloromethane	9.427	83	39207	9.620	ug/l		97
48) Methyl methacrylate	9.225	41	16163	9.239	ug/l		95
49) 1,4-Dioxane	9.238	88	3170	181.086	ug/l		96
51) 4-Methyl-2-Pentanone	10.006	43	86201	46.358	ug/l		98
52) Toluene	10.176	92	70294	9.320	ug/l		98
53) t-1,3-Dichloropropene	10.396	75	36171	9.528	ug/l		93
54) cis-1,3-Dichloropropene	9.859	75	41945	9.403	ug/l		97
55) 1,1,2-Trichloroethane	10.579	97	18882	9.423	ug/l		98
56) Ethyl methacrylate	10.445	69	26658	9.270	ug/l		99
57) 1,3-Dichloropropane	10.719	76	33854	9.587	ug/l		98
58) 2-Chloroethyl Vinyl ether	9.713	63	66205	46.196	ug/l		100
59) 2-Hexanone	10.762	43	54792	44.963	ug/l		99
60) Dibromochloromethane	10.914	129	23908	9.340	ug/l		99
61) 1,2-Dibromoethane	11.018	107	16524	9.016	ug/l		91
64) Tetrachloroethene	10.652	164	30237	9.789	ug/l		95
65) Chlorobenzene	11.444	112	72507	9.376	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.518	131	23791	9.080	ug/l		95
67) Ethyl Benzene	11.524	91	132623	9.236	ug/l		99
68) m/p-Xylenes	11.633	106	95743	17.586	ug/l		95
69) o-Xylene	11.957	106	46196	9.028	ug/l		98
70) Styrene	11.975	104	73993	8.685	ug/l		97
71) Bromoform	12.133	173	12746	9.287	ug/l	#	99
73) Isopropylbenzene	12.255	105	121960	9.507	ug/l		99
74) N-amyl acetate	12.072	43	28607	9.114	ug/l		96
75) 1,1,2,2-Tetrachloroethane	12.505	83	18720	9.262	ug/l		100
76) 1,2,3-Trichloropropane	12.560	75	17196m	6.404	ug/l		
77) Bromobenzene	12.536	156	26457	9.584	ug/l		99
78) n-propylbenzene	12.597	91	145616	9.459	ug/l		100
79) 2-Chlorotoluene	12.682	91	79070	9.488	ug/l		100
80) 1,3,5-Trimethylbenzene	12.737	105	93557	9.334	ug/l		98
81) trans-1,4-Dichloro-2-b...	12.304	75	6931	9.601	ug/l		97
82) 4-Chlorotoluene	12.780	91	80299	9.356	ug/l		98
83) tert-Butylbenzene	12.999	119	83455	9.216	ug/l		99
84) 1,2,4-Trimethylbenzene	13.042	105	93094	9.230	ug/l		99
85) sec-Butylbenzene	13.176	105	123436	9.191	ug/l		99
86) p-Isopropyltoluene	13.292	119	100168	8.932	ug/l		99
87) 1,3-Dichlorobenzene	13.292	146	50790	9.144	ug/l		100
88) 1,4-Dichlorobenzene	13.371	146	49773	9.372	ug/l		95
89) n-Butylbenzene	13.621	91	93025	8.847	ug/l		98
90) Hexachloroethane	13.883	117	20778	9.310	ug/l		98
91) 1,2-Dichlorobenzene	13.657	146	43417	9.358	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.279	75	3042	9.740	ug/l		99
93) 1,2,4-Trichlorobenzene	14.919	180	23591	9.172	ug/l		98
94) Hexachlorobutadiene	15.023	225	12088	8.956	ug/l		99
95) Naphthalene	15.145	128	42212	8.878	ug/l		98
96) 1,2,3-Trichlorobenzene	15.328	180	18071	8.567	ug/l		98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022422.D
Acq On : 27 May 2025 09:14
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

Quant Time: May 28 09:43:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 09:30:53 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

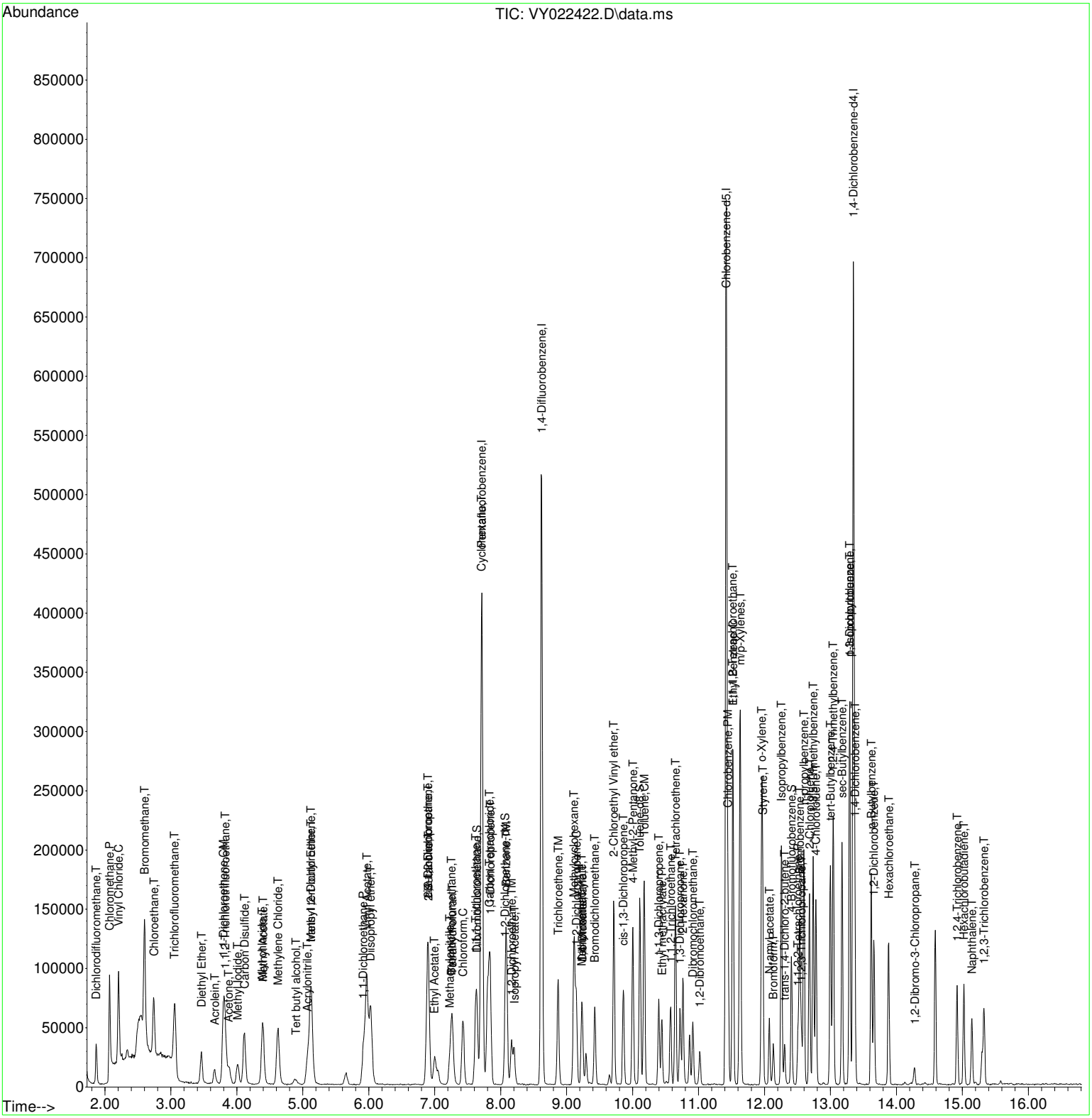
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022422.D
Acq On : 27 May 2025 09:14
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

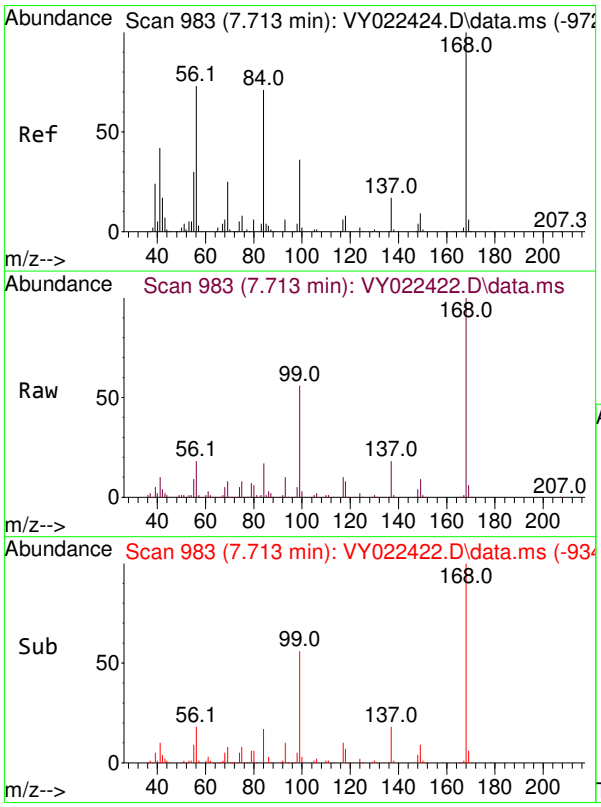
Quant Time: May 28 09:43:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 09:30:53 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

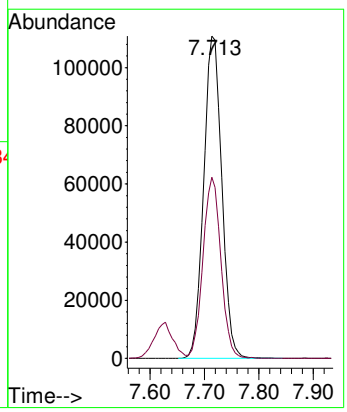
Tgt Ion:168 Resp: 25639

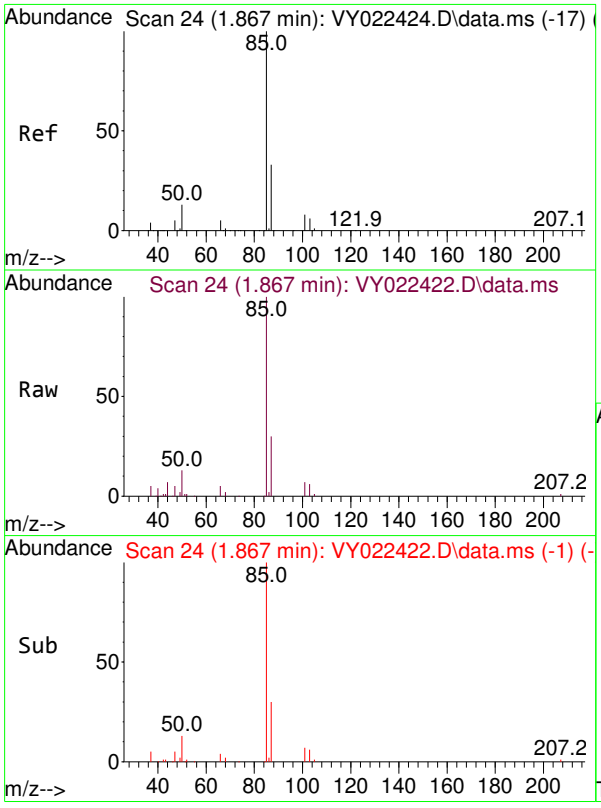
Ion	Ratio	Lower	Upper
168	100		
99	56.2	44.7	67.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

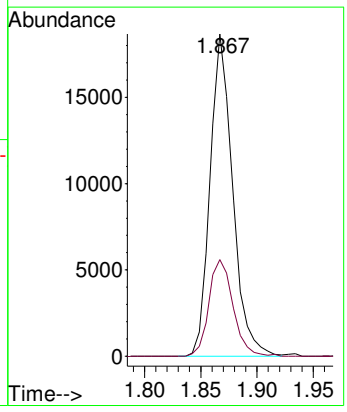


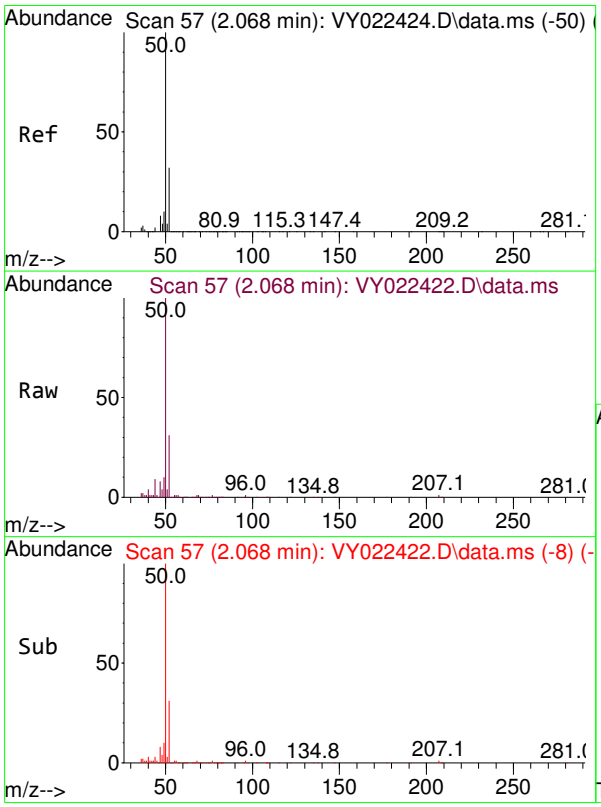


#2
Dichlorodifluoromethane
Concen: 10.660 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 85 Resp: 26076

Ion	Ratio	Lower	Upper
85	100		
87	30.0	16.4	49.2





#3
Chloromethane
Concen: 11.343 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 50 Resp: 6825

Ion	Ratio	Lower	Upper
50	100		
52	30.6	25.5	38.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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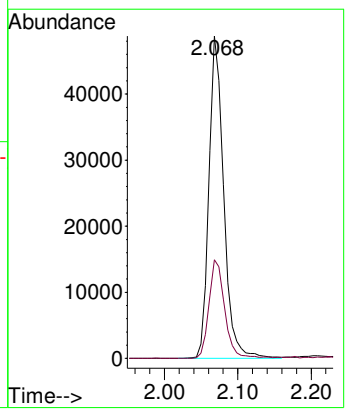
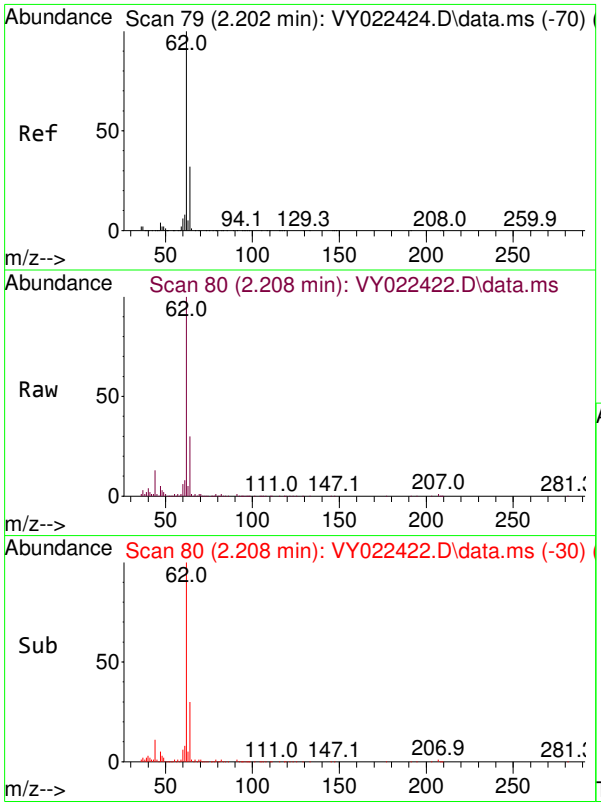
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

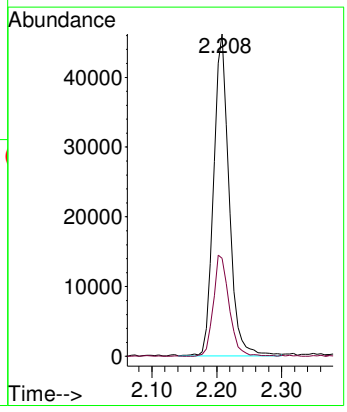


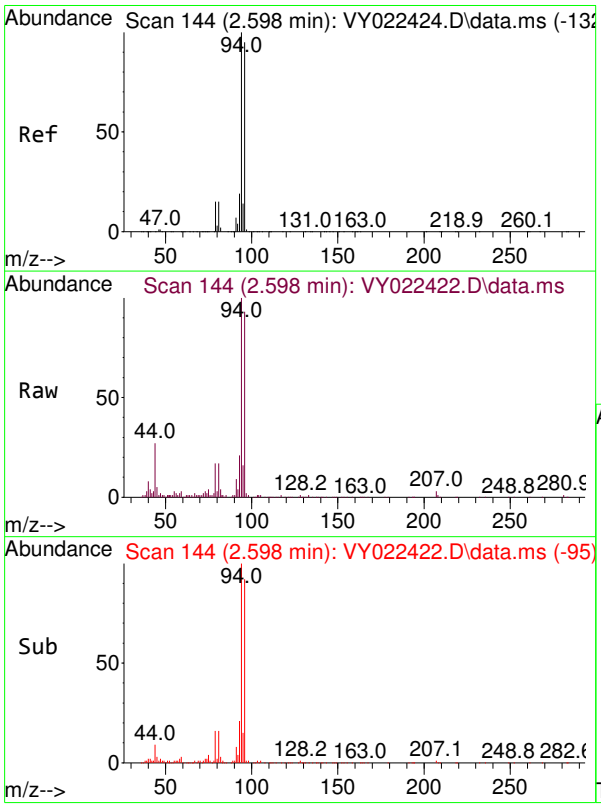


#4
Vinyl Chloride
Concen: 10.474 ug/l
RT: 2.208 min Scan# 80
Delta R.T. 0.006 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 62 Resp: 76561

Ion	Ratio	Lower	Upper
62	100		
64	30.3	26.0	39.0





#5
Bromomethane
Concen: 9.890 ug/l
RT: 2.598 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 94 Resp: 6569

Ion	Ratio	Lower	Upper
94	100		
96	92.1	76.0	114.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
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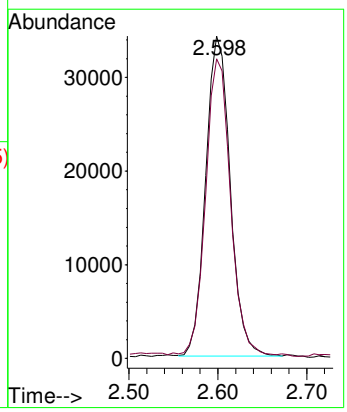
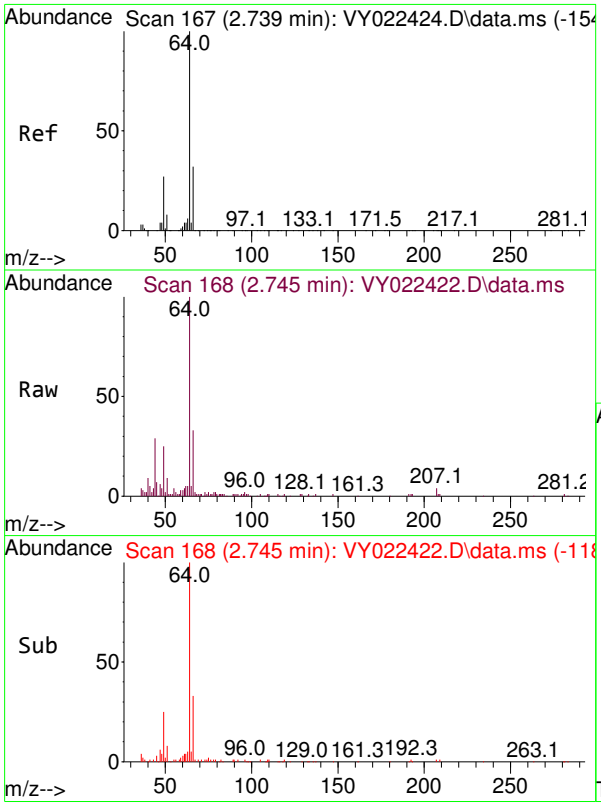
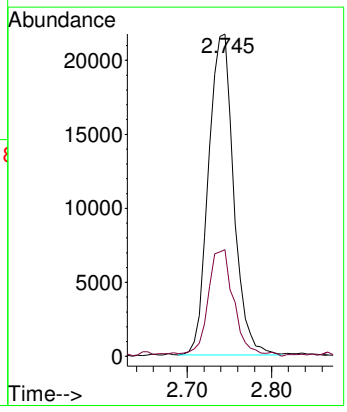


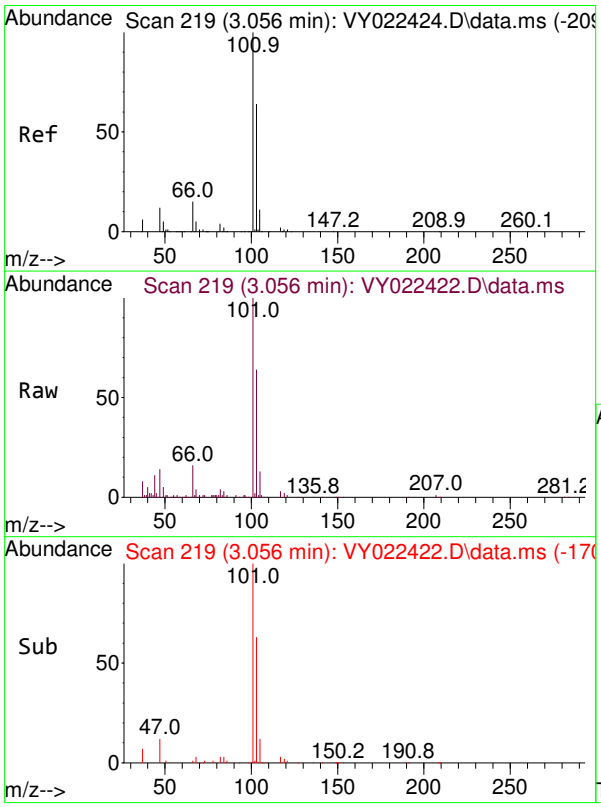


#6
Chloroethane
Concen: 9.455 ug/l
RT: 2.745 min Scan# 168
Delta R.T. 0.006 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 64 Resp: 45164

Ion	Ratio	Lower	Upper
64	100		
66	33.3	25.9	38.9





#7
Trichlorofluoromethane
Concen: 9.763 ug/l
RT: 3.056 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion:101 Resp: 6020

Ion	Ratio	Lower	Upper
101	100		
103	63.5	50.9	76.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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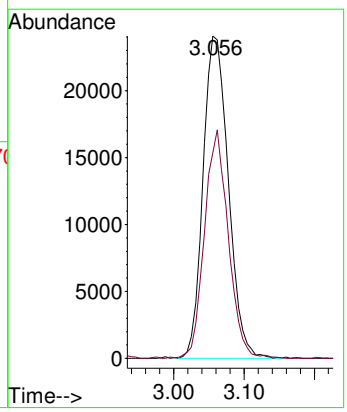
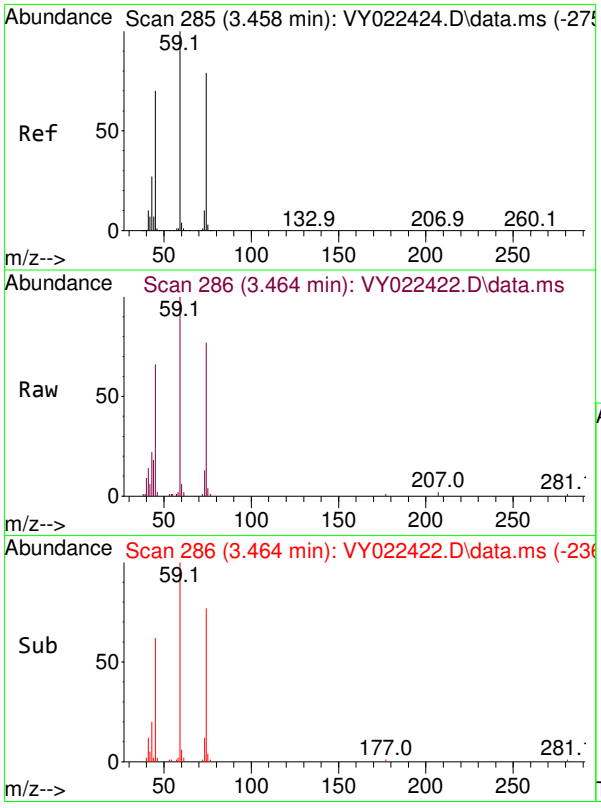
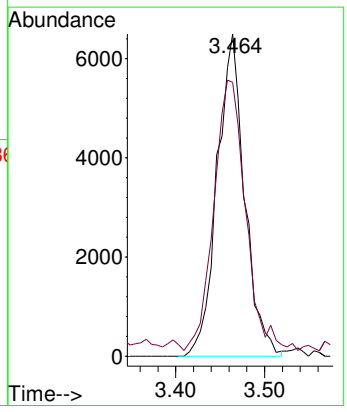


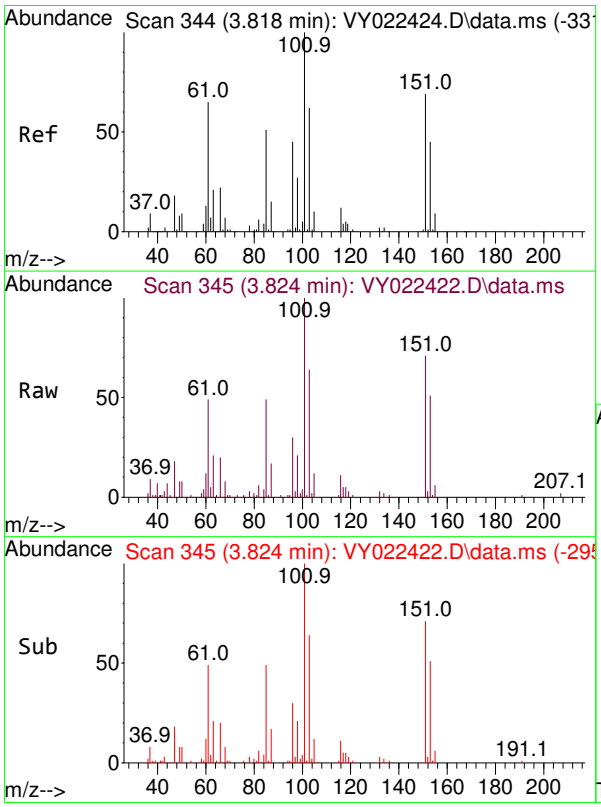


#8
Diethyl Ether
Concen: 9.875 ug/l
RT: 3.464 min Scan# 286
Delta R.T. 0.006 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 74 Resp: 14042

Ion	Ratio	Lower	Upper
74	100		
45	96.1	44.9	134.5





#9
1,1,2-Trichlorotrifluoroethane
Concen: 9.804 ug/l
RT: 3.824 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion:101 Resp: 2652

Ion	Ratio	Lower	Upper
101	100		
85	50.2	39.2	58.8
151	74.4	58.8	88.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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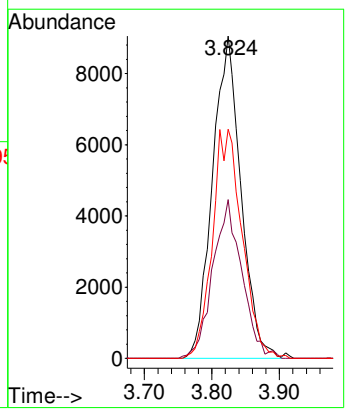
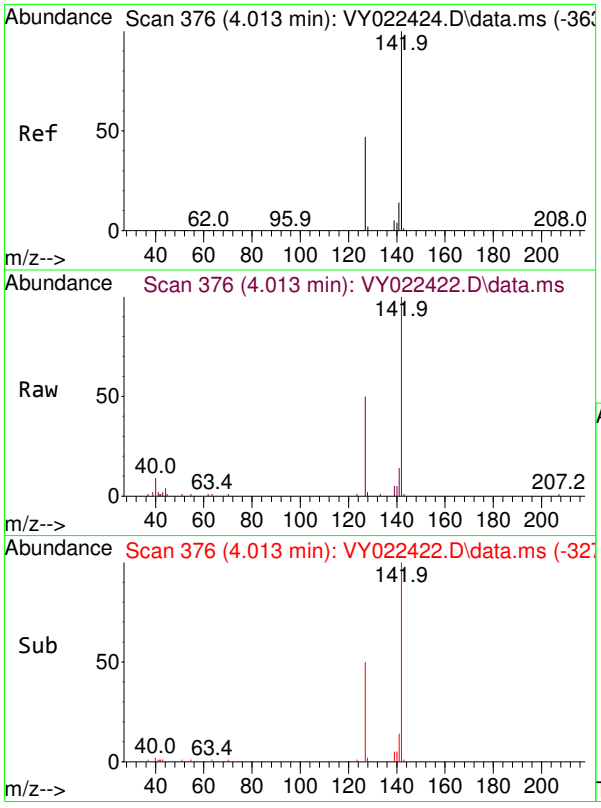
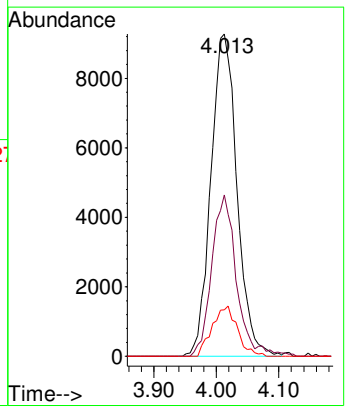


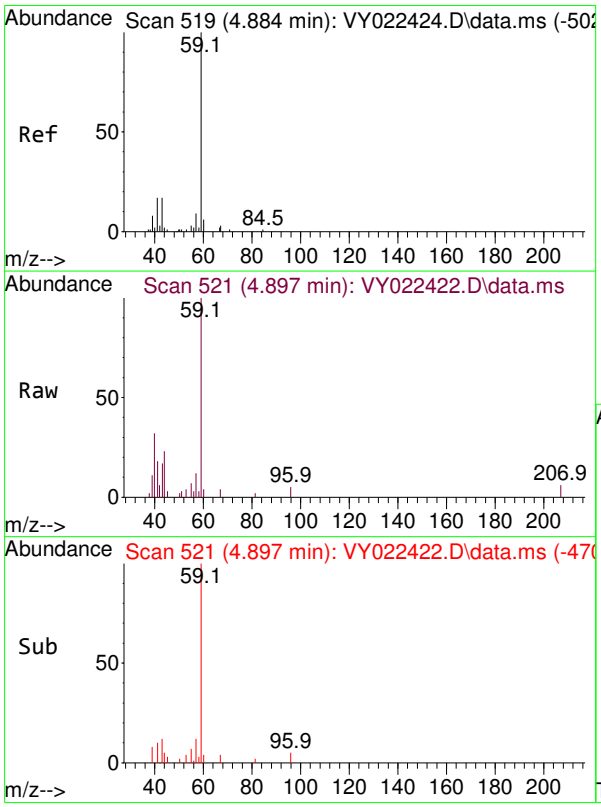


#10
Methyl Iodide
Concen: 8.803 ug/l
RT: 4.013 min Scan# 376
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion:142 Resp: 26870

Ion	Ratio	Lower	Upper
142	100		
127	47.5	36.2	54.4
141	15.1	11.6	17.4





#11
Tert butyl alcohol
Concen: 50.530 ug/l
RT: 4.897 min Scan# 5
Delta R.T. 0.012 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 59 Resp: 961

Ion	Ratio	Lower	Upper
59	100		
57	12.7	9.1	13.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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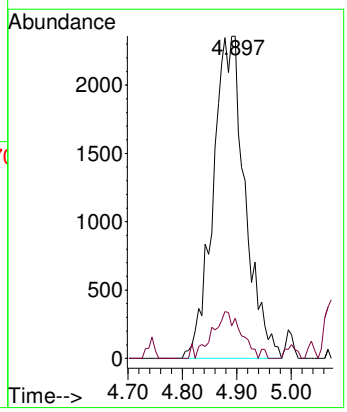
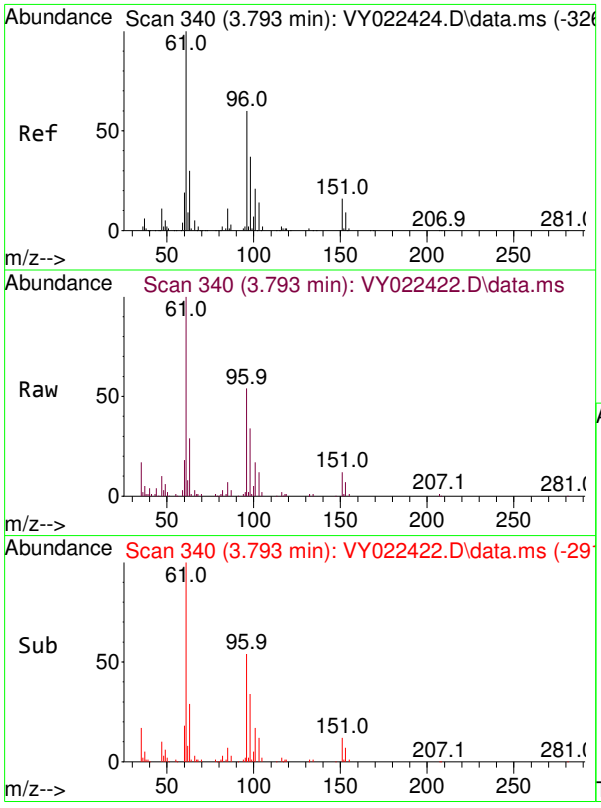
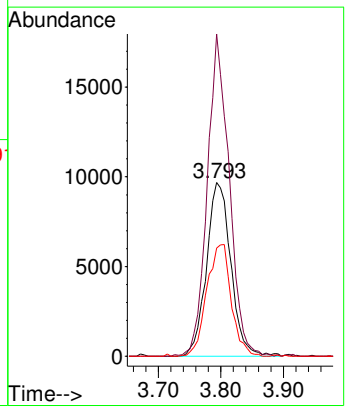


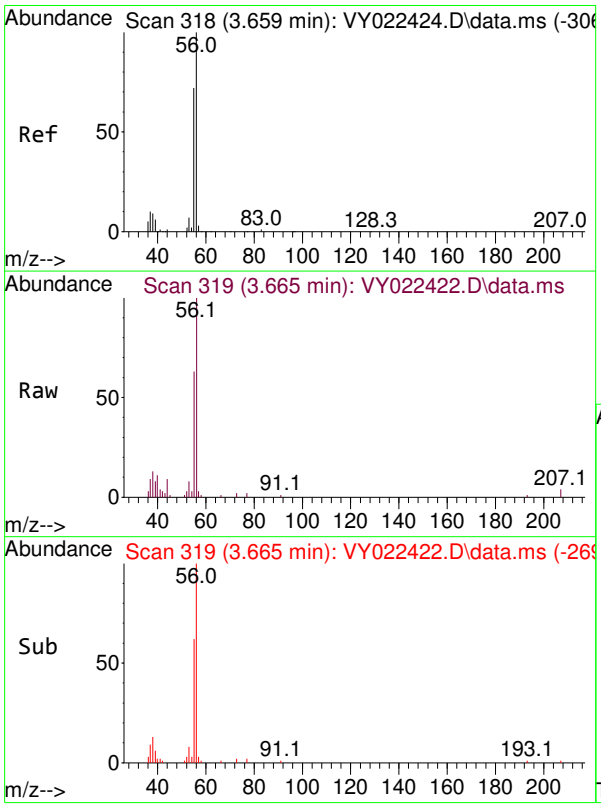


#12
1,1-Dichloroethene
Concen: 9.781 ug/l
RT: 3.793 min Scan# 340
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 96 Resp: 26273

Ion	Ratio	Lower	Upper
96	100		
61	185.6	134.1	201.1
98	62.2	50.2	75.2





#13
Acrolein
Concen: 48.278 ug/l
RT: 3.665 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 56 Resp: 1377

Ion	Ratio	Lower	Upper
56	100		
55	72.9	56.5	84.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
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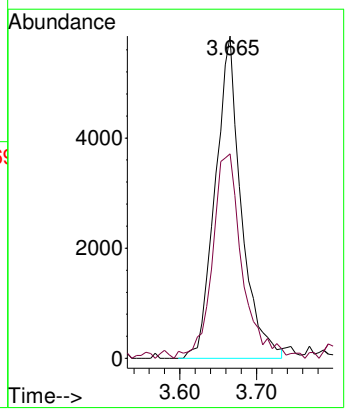
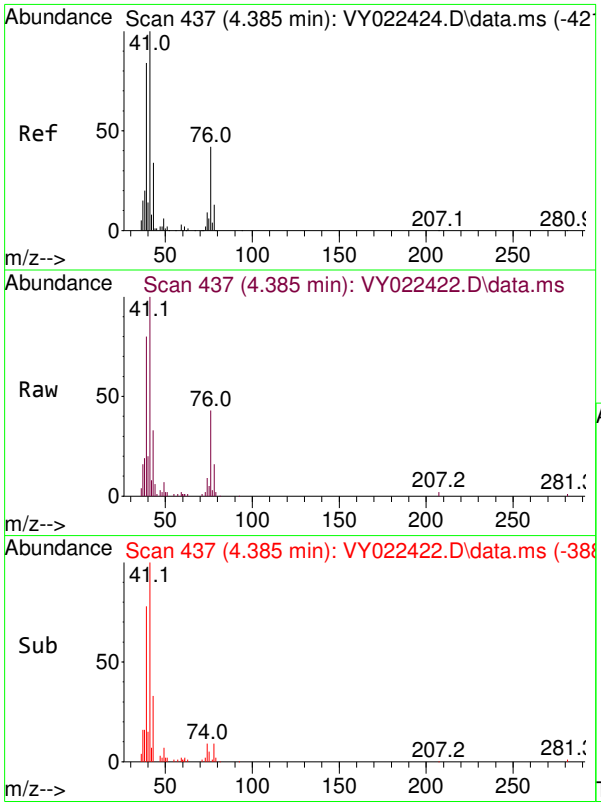
Supervised By :Mahesh Dadoda 05/28/2025

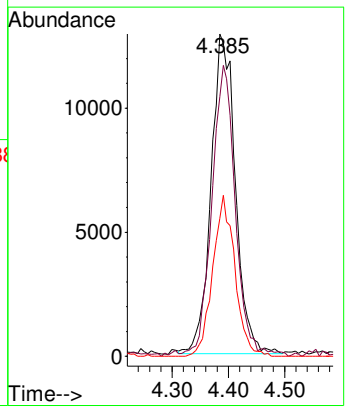


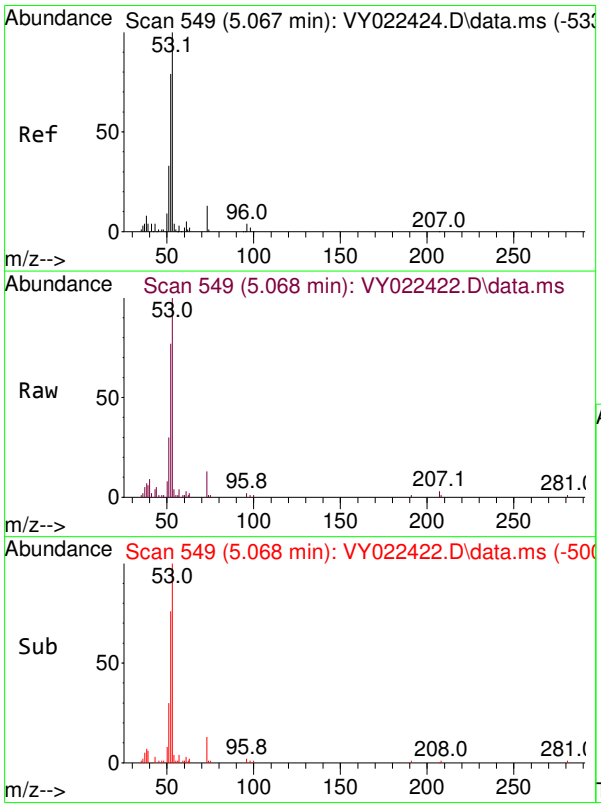


#14
Allyl chloride
Concen: 9.541 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 41 Resp: 38553

Ion	Ratio	Lower	Upper
41	100		
39	88.5	66.6	100.0
76	46.0	33.7	50.5





#15
Acrylonitrile
Concen: 49.059 ug/l
RT: 5.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 53 Resp: 2812

Ion	Ratio	Lower	Upper
53	100		
52	83.6	65.1	97.7
51	38.0	30.0	45.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
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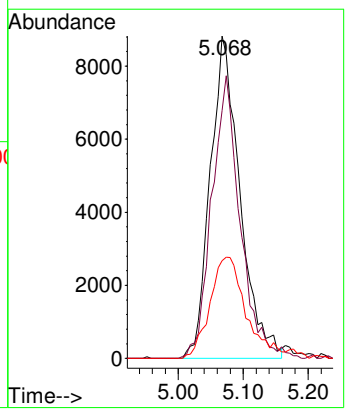
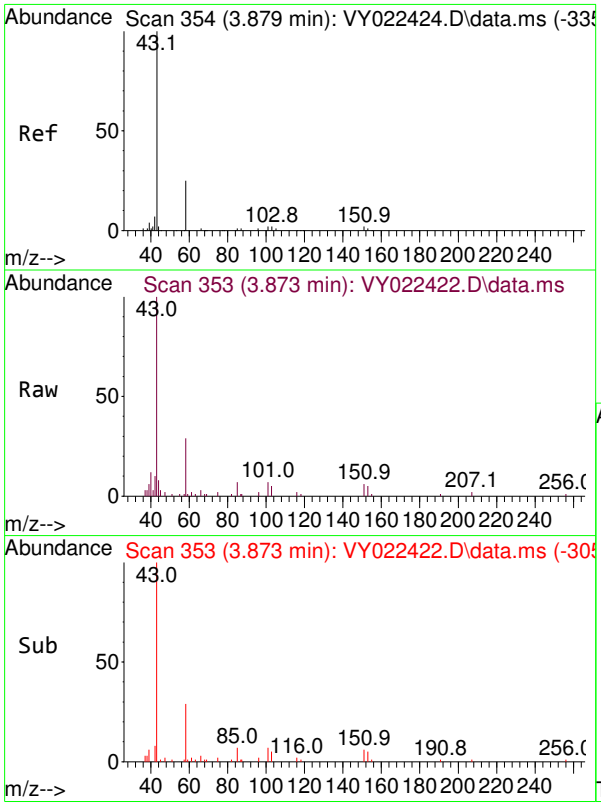
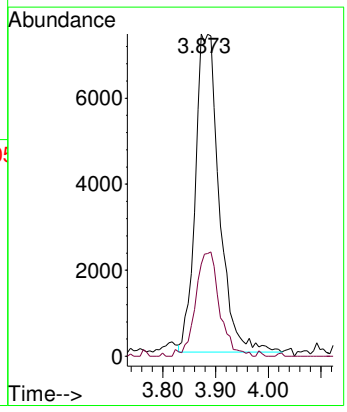


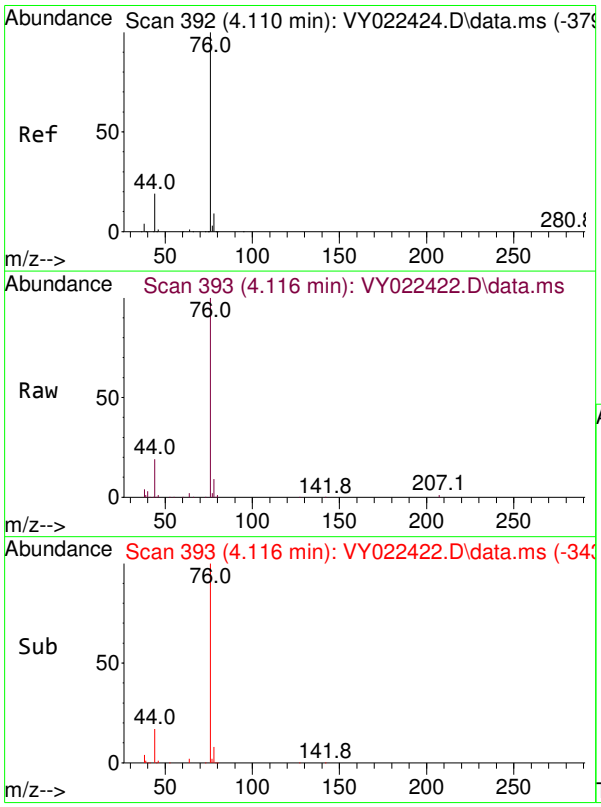


#16
Acetone
Concen: 52.221 ug/l
RT: 3.873 min Scan# 353
Delta R.T. -0.006 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 43 Resp: 23174

Ion	Ratio	Lower	Upper
43	100		
58	28.0	20.6	30.8





#17
Carbon Disulfide
Concen: 10.022 ug/l
RT: 4.116 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 76 Resp: 8591

Ion	Ratio	Lower	Upper
76	100		
78	8.9	7.2	10.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
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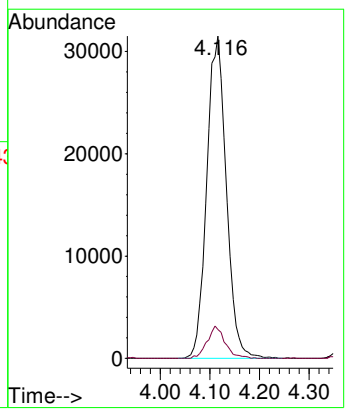
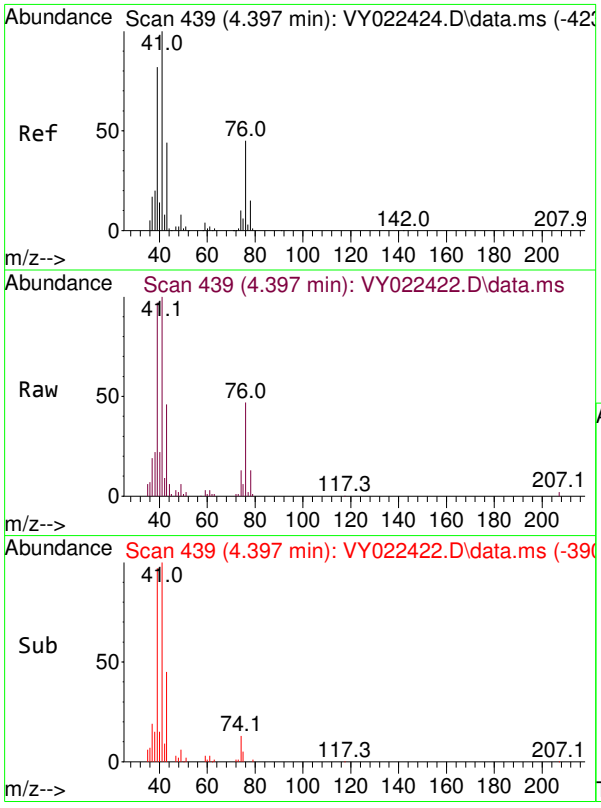
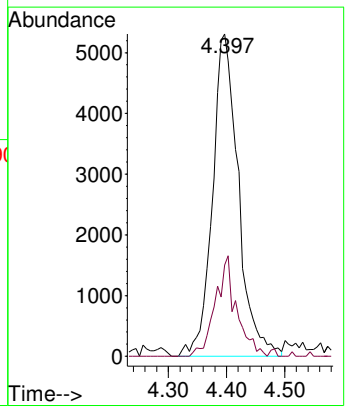


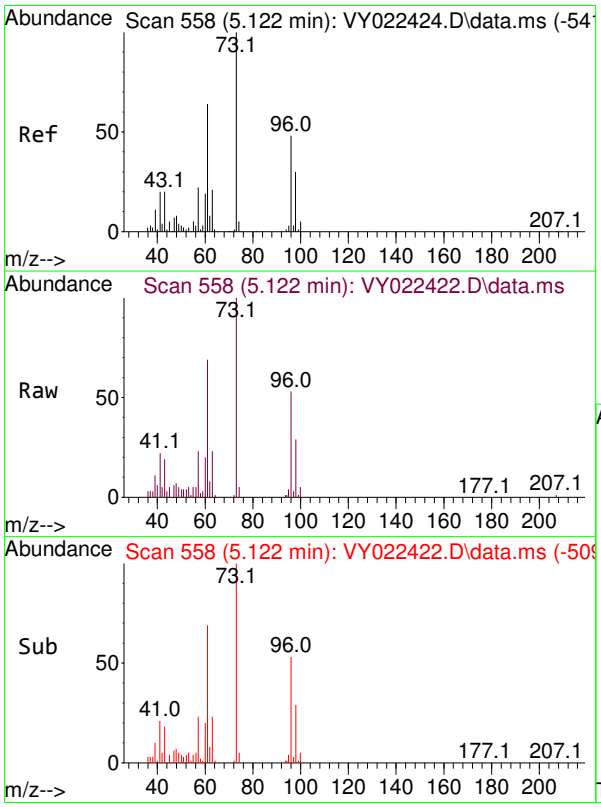


#18
Methyl Acetate
Concen: 9.841 ug/l
RT: 4.397 min Scan# 439
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 43 Resp: 16359

Ion	Ratio	Lower	Upper
43	100		
74	25.5	21.2	31.8





#19
Methyl tert-butyl Ether
Concen: 9.769 ug/l
RT: 5.122 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 73 Resp: 6967

Ion	Ratio	Lower	Upper
73	100		
57	23.0	17.7	26.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

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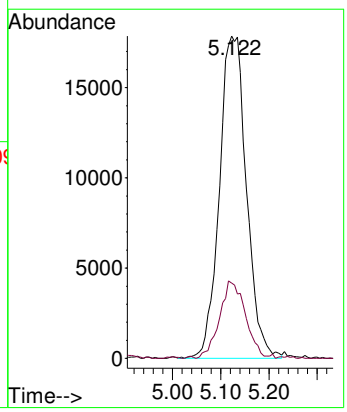
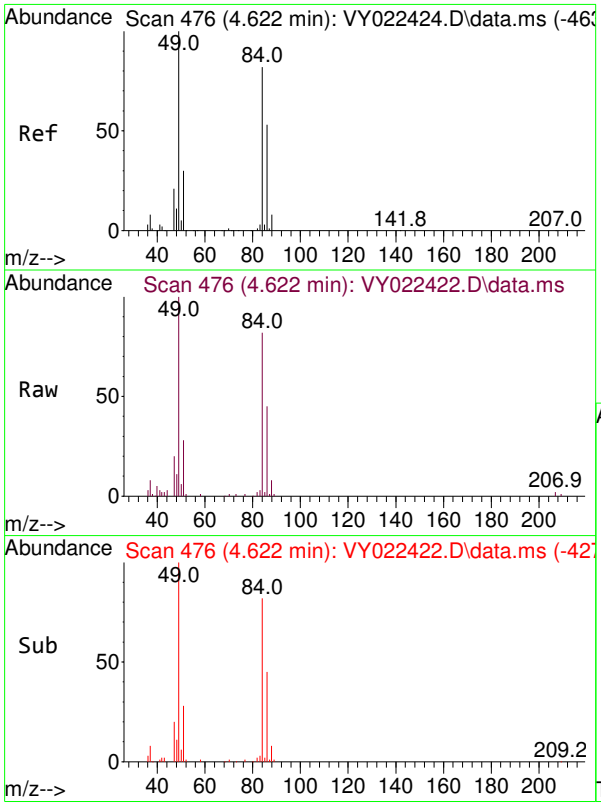
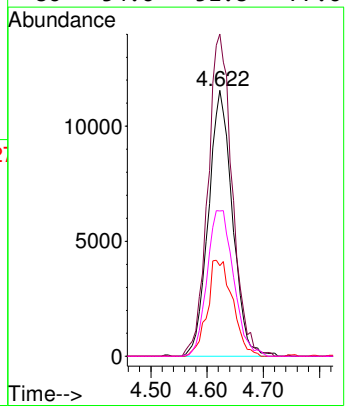


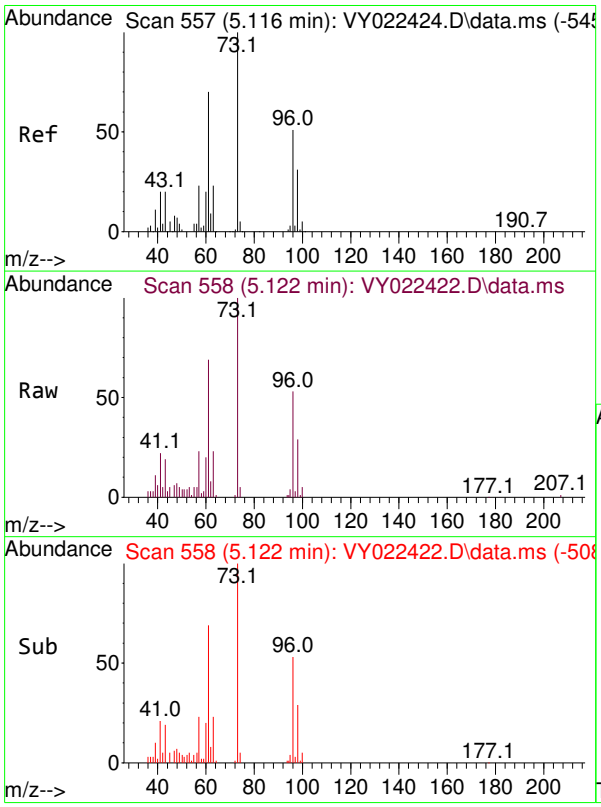


#20
Methylene Chloride
Concen: 10.946 ug/l
RT: 4.622 min Scan# 476
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 84 Resp: 34301

Ion	Ratio	Lower	Upper
84	100		
49	121.3	97.8	146.8
51	34.1	29.5	44.3
86	54.6	51.8	77.6

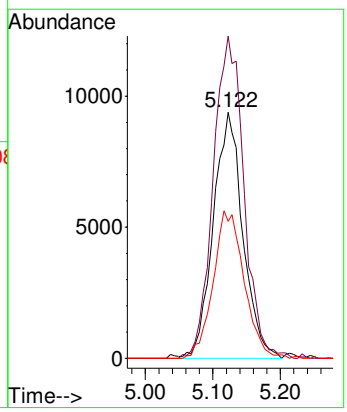




#21
trans-1,2-Dichloroethene
Concen: 9.724 ug/l
RT: 5.122 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 96 Resp: 2851

Ion	Ratio	Lower	Upper
96	100		
61	131.0	110.4	165.6
98	55.7	48.6	73.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
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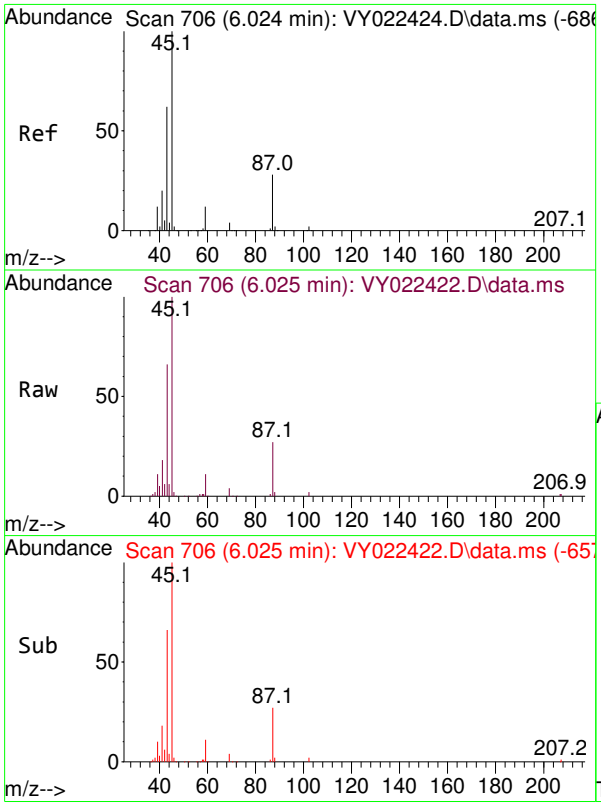
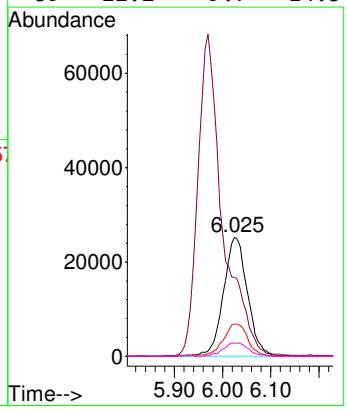
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

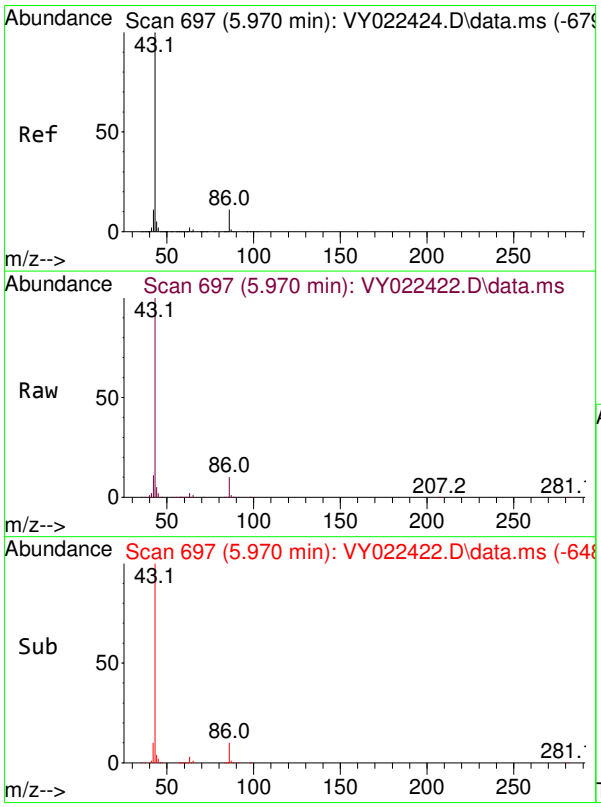


#22
Diisopropyl ether
Concen: 9.756 ug/l
RT: 6.025 min Scan# 706
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 45 Resp: 87002

Ion	Ratio	Lower	Upper
45	100		
43	65.0	49.8	74.8
87	27.1	23.0	34.6
59	11.2	9.7	14.5





#23
Vinyl Acetate
Concen: 47.816 ug/l
RT: 5.970 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 43 Resp: 24484

Ion	Ratio	Lower	Upper
43	100		
86	10.1	8.8	13.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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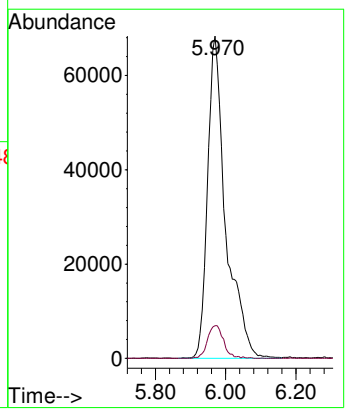
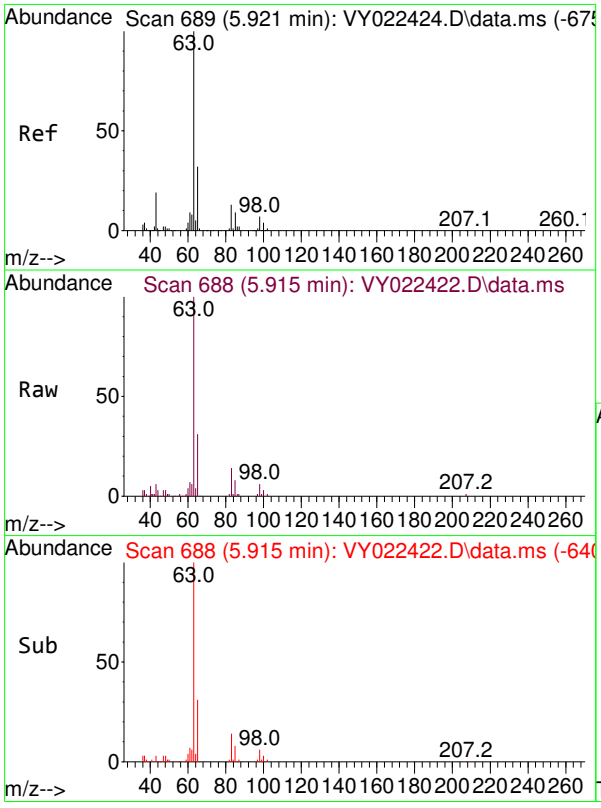
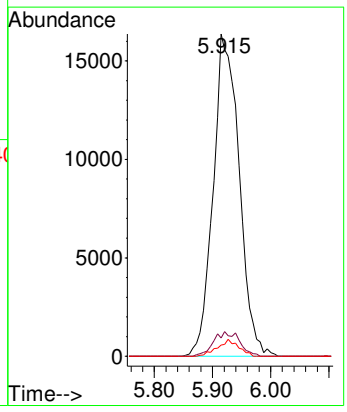


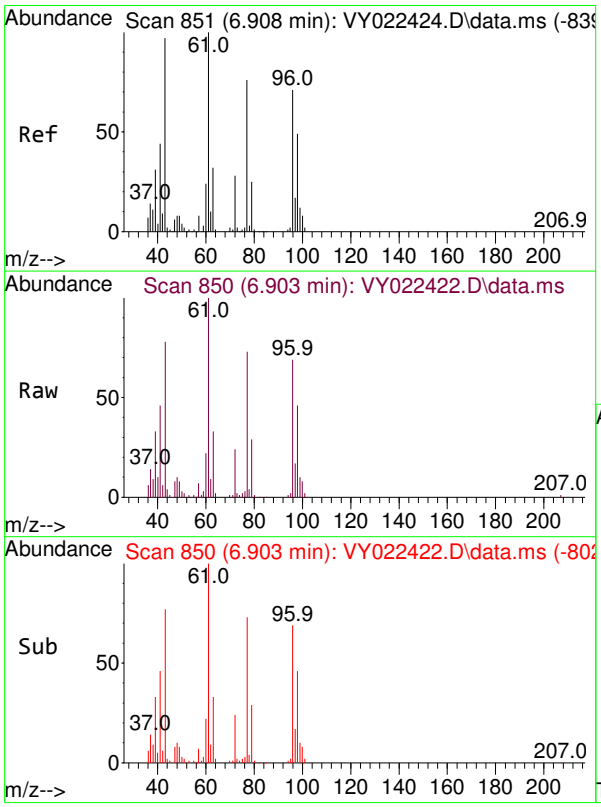


#24
1,1-Dichloroethane
Concen: 9.591 ug/l
RT: 5.915 min Scan# 688
Delta R.T. -0.006 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 63 Resp: 50541

Ion	Ratio	Lower	Upper
63	100		
98	5.7	3.5	10.5
100	3.5	2.1	6.5





#25
2-Butanone
Concen: 49.890 ug/l
RT: 6.903 min Scan# 8
Delta R.T. -0.006 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 43 Resp: 3687

Ion	Ratio	Lower	Upper
43	100		
72	30.4	22.8	34.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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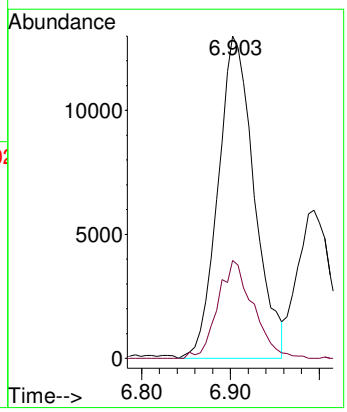
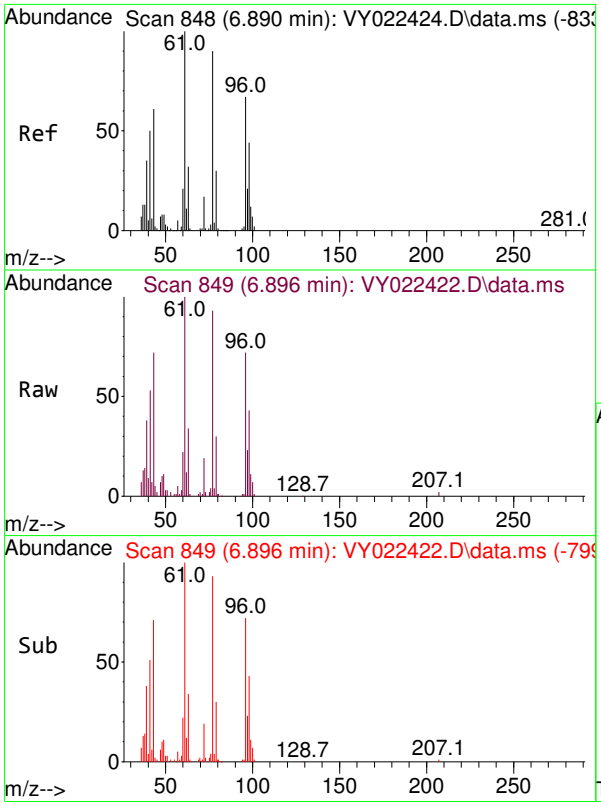
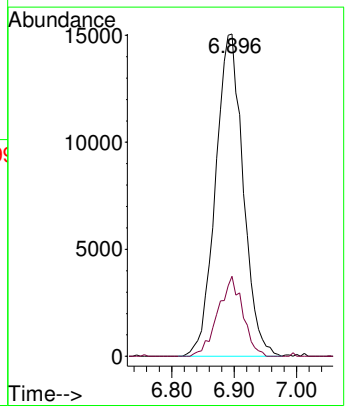


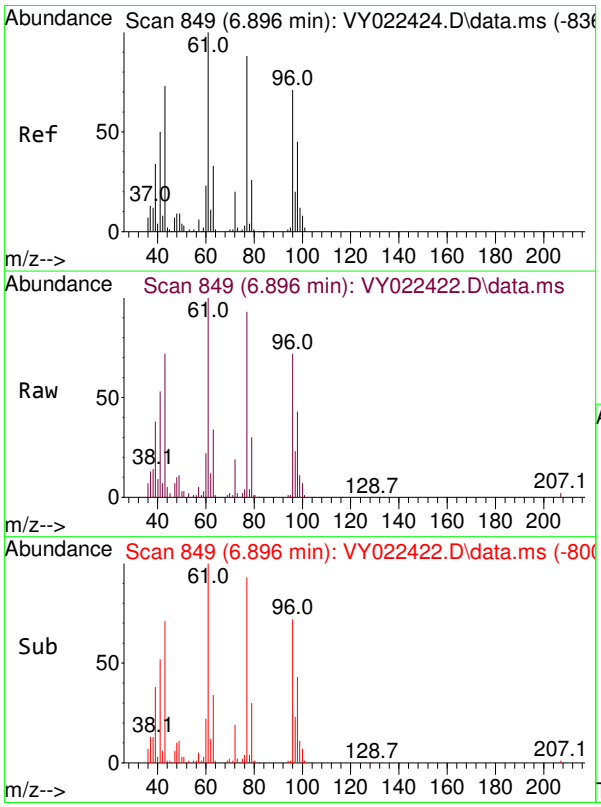


#26
2,2-Dichloropropane
Concen: 9.675 ug/l
RT: 6.896 min Scan# 849
Delta R.T. 0.006 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 77 Resp: 46164

Ion	Ratio	Lower	Upper
77	100		
97	22.3	11.6	34.7

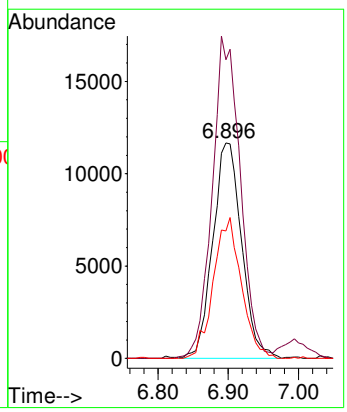




#27
cis-1,2-Dichloroethene
Concen: 9.778 ug/l
RT: 6.896 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 96 Resp: 3319

Ion	Ratio	Lower	Upper
96	100		
61	145.9	0.0	292.0
98	63.4	0.0	131.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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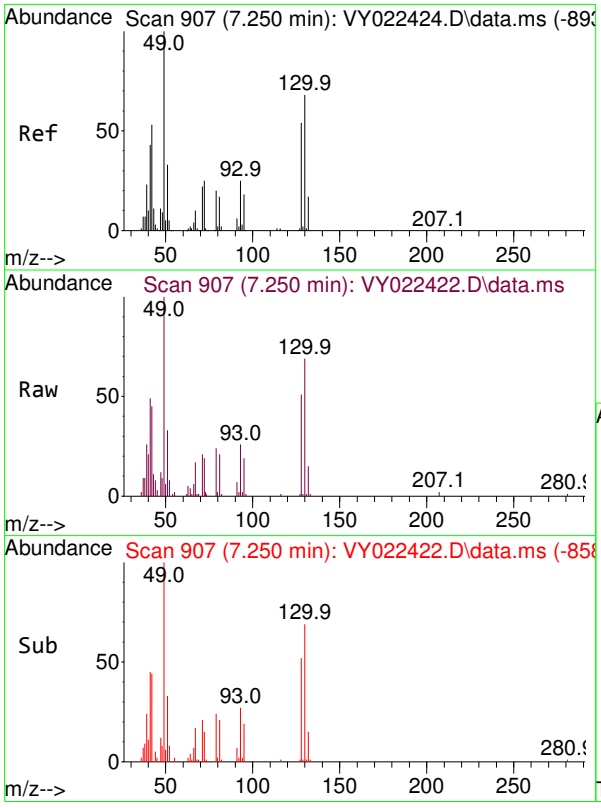
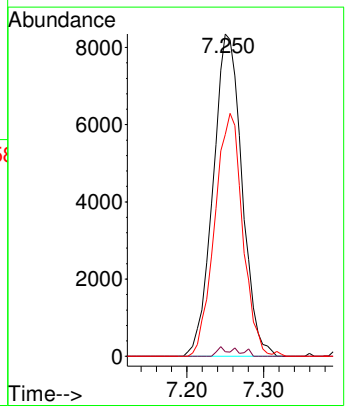
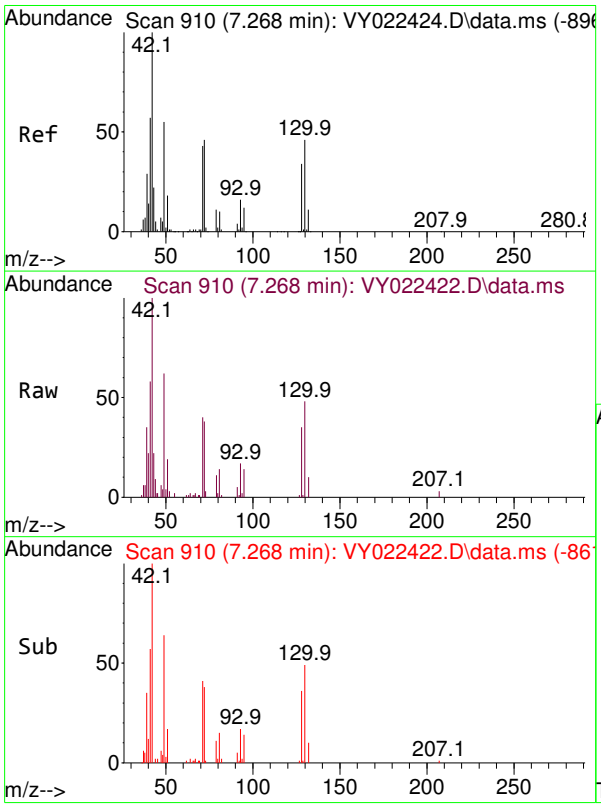


#28
Bromochloromethane
Concen: 9.927 ug/l
RT: 7.250 min Scan# 907
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 49 Resp: 21845

Ion	Ratio	Lower	Upper
49	100		
129	1.0	0.0	4.0
130	72.8	56.9	85.3





#29
Tetrahydrofuran
Concen: 48.732 ug/l
RT: 7.268 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 42 Resp: 2402

Ion	Ratio	Lower	Upper
42	100		
72	43.2	37.7	56.5
71	43.0	34.7	52.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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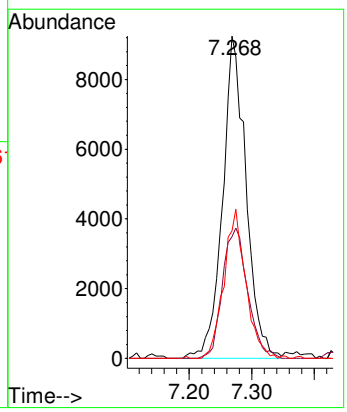
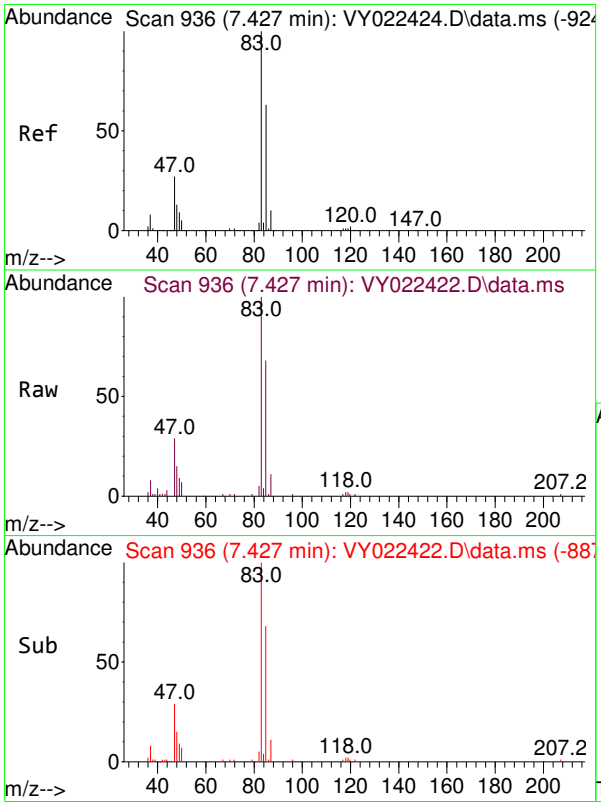
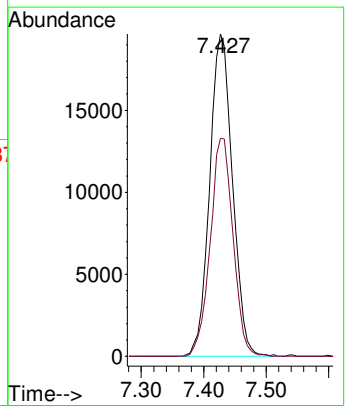


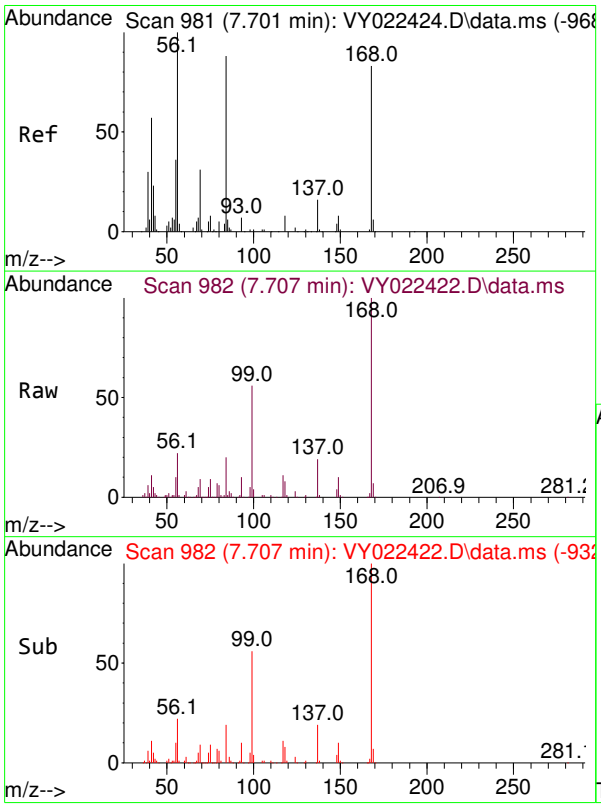


#30
Chloroform
Concen: 9.583 ug/l
RT: 7.427 min Scan# 936
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 83 Resp: 49760

Ion	Ratio	Lower	Upper
83	100		
85	67.6	50.1	75.1





#31
Cyclohexane
Concen: 10.309 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 56 Resp: 5355

Ion	Ratio	Lower	Upper
56	100		
69	41.9	24.6	36.8
84	88.8	70.4	105.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
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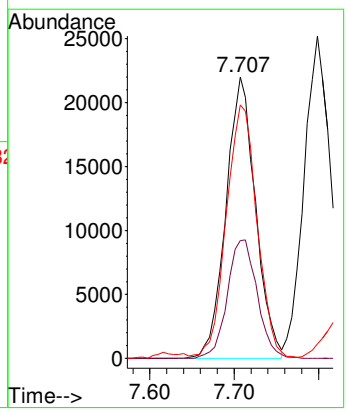
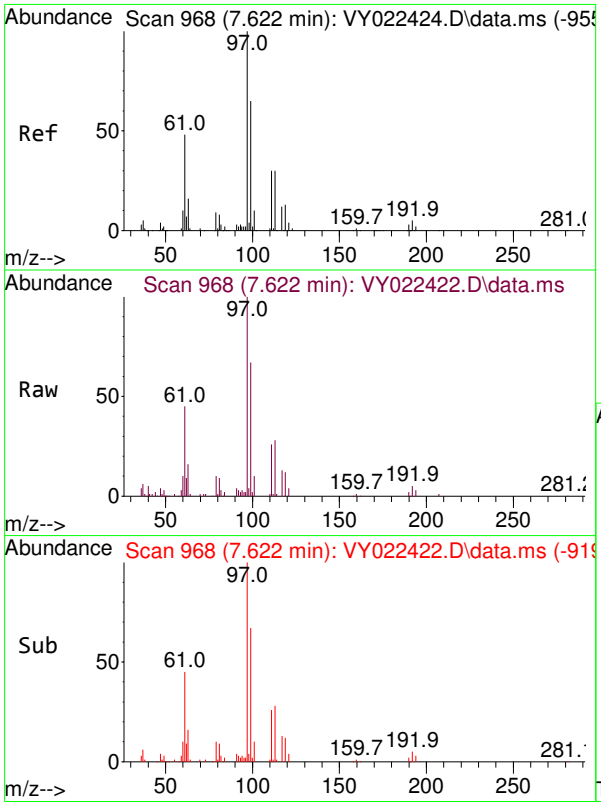
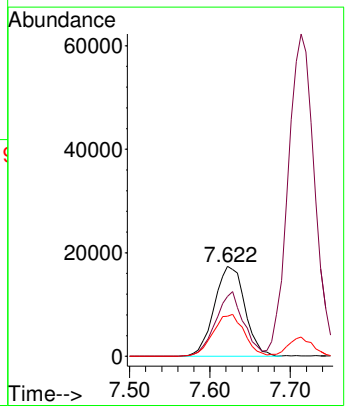


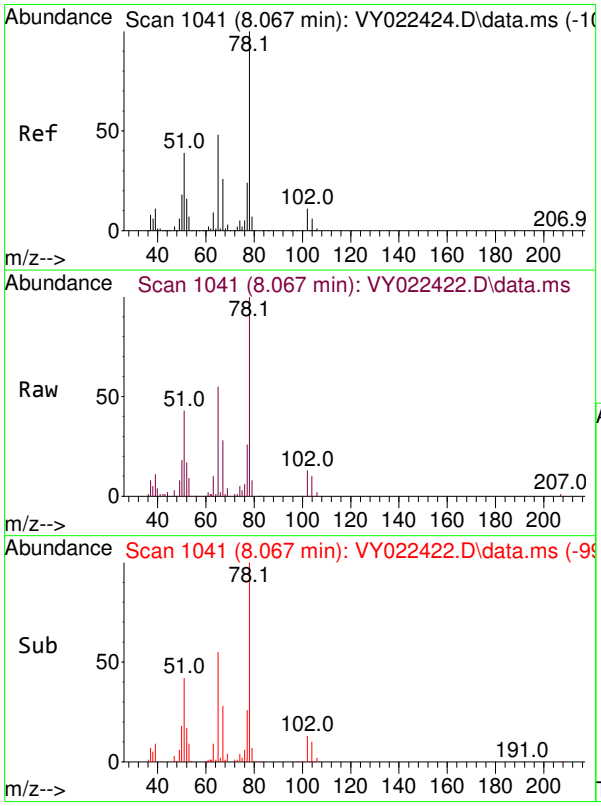


#32
1,1,1-Trichloroethane
Concen: 9.725 ug/l
RT: 7.622 min Scan# 968
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 97 Resp: 45829

Ion	Ratio	Lower	Upper
97	100		
99	65.5	51.3	76.9
61	47.6	37.3	55.9





#33
1,2-Dichloroethane-d4
Concen: 9.971 ug/l
RT: 8.067 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 65 Resp: 2692

Ion	Ratio	Lower	Upper
65	100		
67	53.8	0.0	104.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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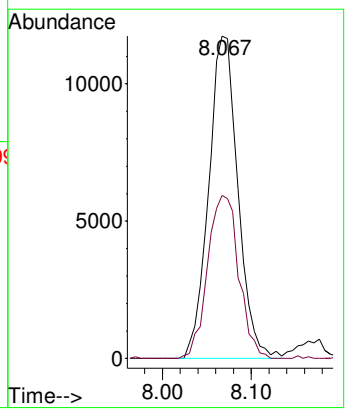
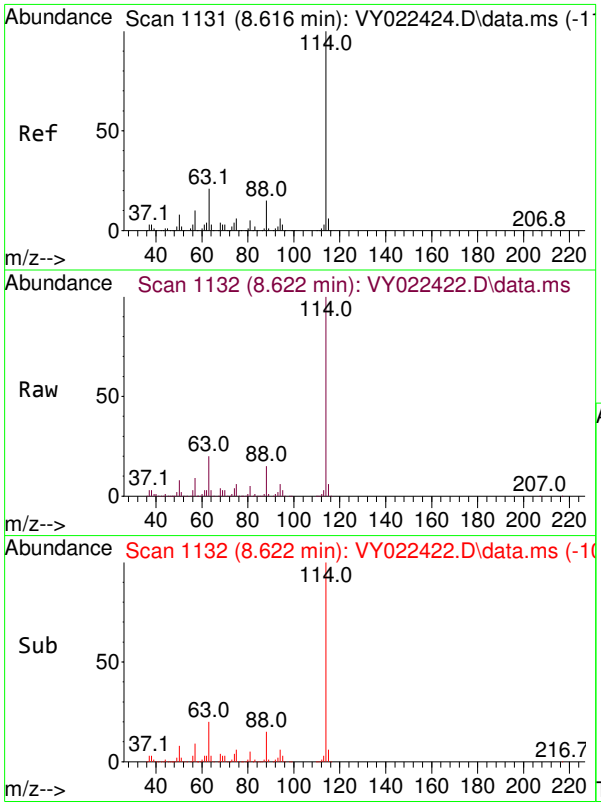
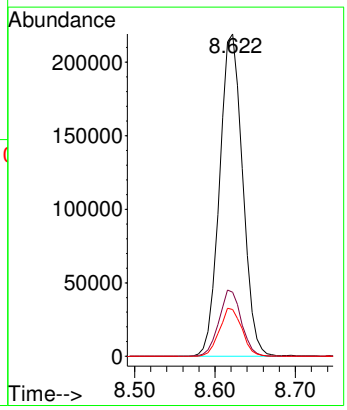


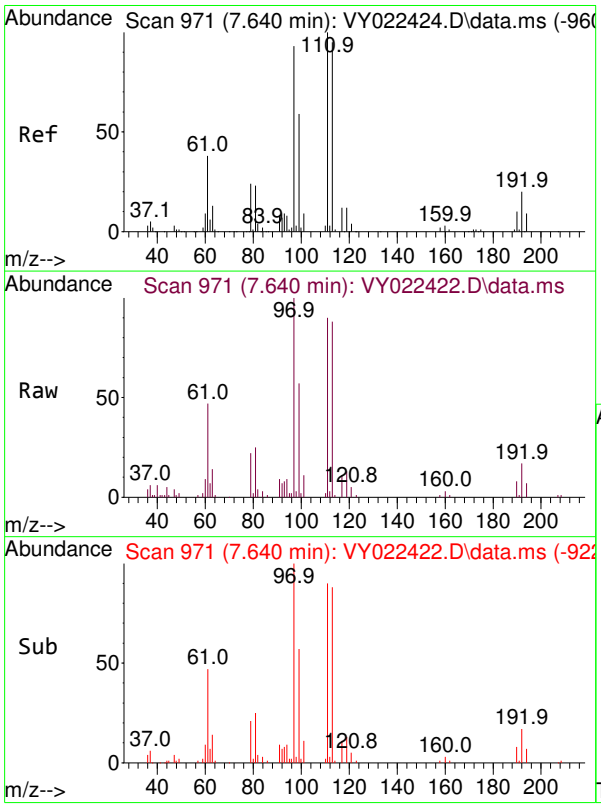


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.622 min Scan# 1132
Delta R.T. 0.006 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion:114 Resp: 436685

Ion	Ratio	Lower	Upper
114	100		
63	19.9	0.0	42.6
88	14.5	0.0	29.4





#35
Dibromofluoromethane
Concen: 9.584 ug/l
RT: 7.640 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion:113 Resp: 2450

Ion	Ratio	Lower	Upper
113	100		
111	103.6	82.4	123.6
192	19.1	15.2	22.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
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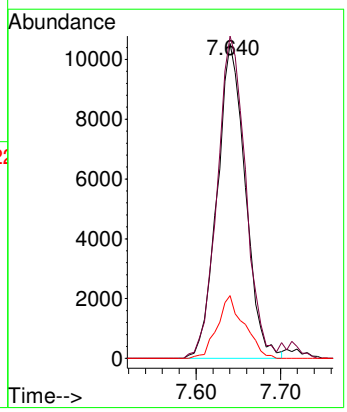
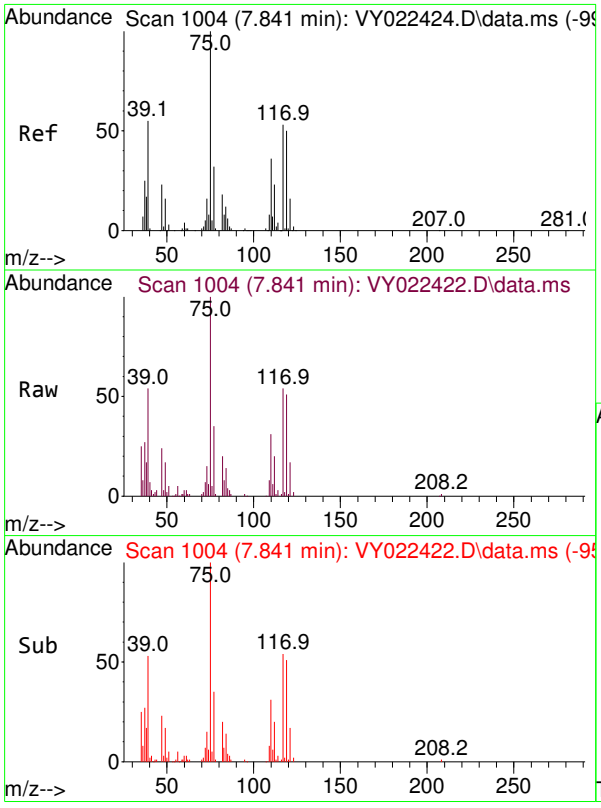
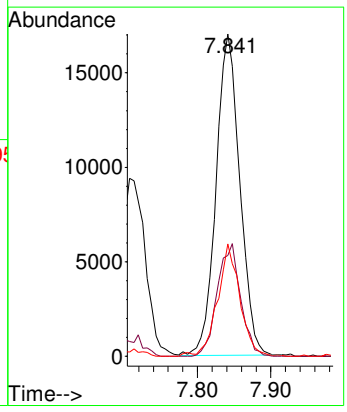


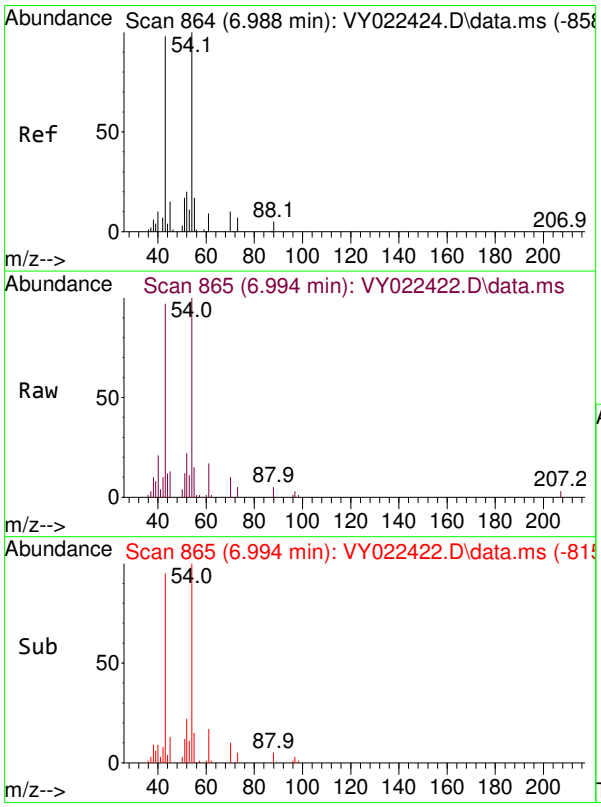


#36
1,1-Dichloropropene
Concen: 9.404 ug/l
RT: 7.841 min Scan# 1004
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 75 Resp: 38161

Ion	Ratio	Lower	Upper
75	100		
110	34.5	17.1	51.2
77	33.1	25.1	37.7





#37
Ethyl Acetate
Concen: 9.406 ug/l
RT: 6.994 min Scan# 8
Delta R.T. 0.006 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 43 Resp: 1622

Ion	Ratio	Lower	Upper
43	100		
61	15.9	11.7	17.5
70	10.8	7.8	11.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
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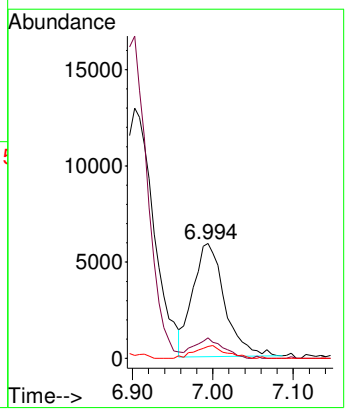
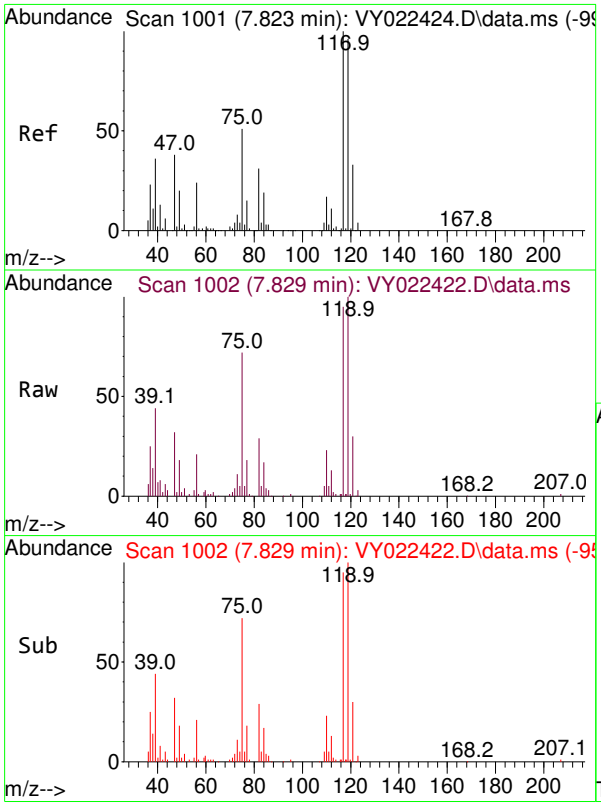
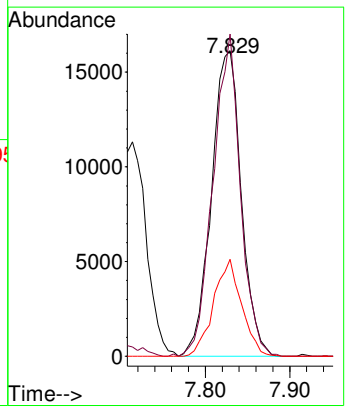


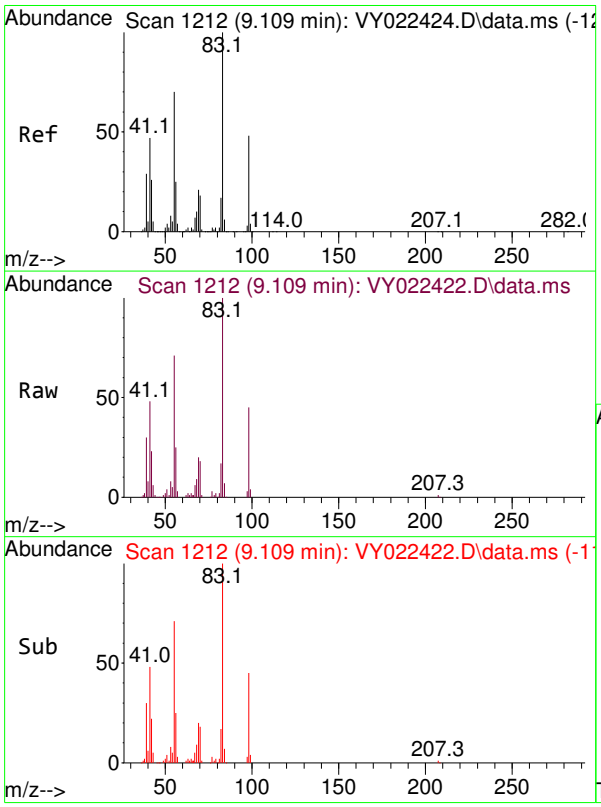


#38
Carbon Tetrachloride
Concen: 9.414 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. 0.006 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion:117 Resp: 39797

Ion	Ratio	Lower	Upper
117	100		
119	105.5	76.3	114.5
121	31.8	26.1	39.1





#39
Methylcyclohexane
Concen: 9.751 ug/l
RT: 9.109 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 83 Resp: 5260

Ion	Ratio	Lower	Upper
83	100		
55	71.0	56.2	84.2
98	45.2	38.4	57.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

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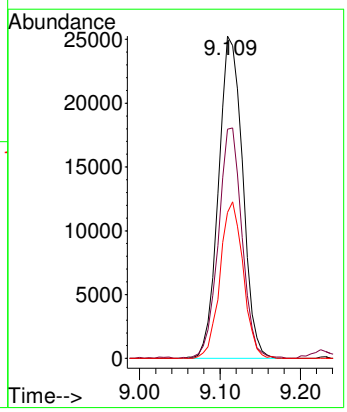
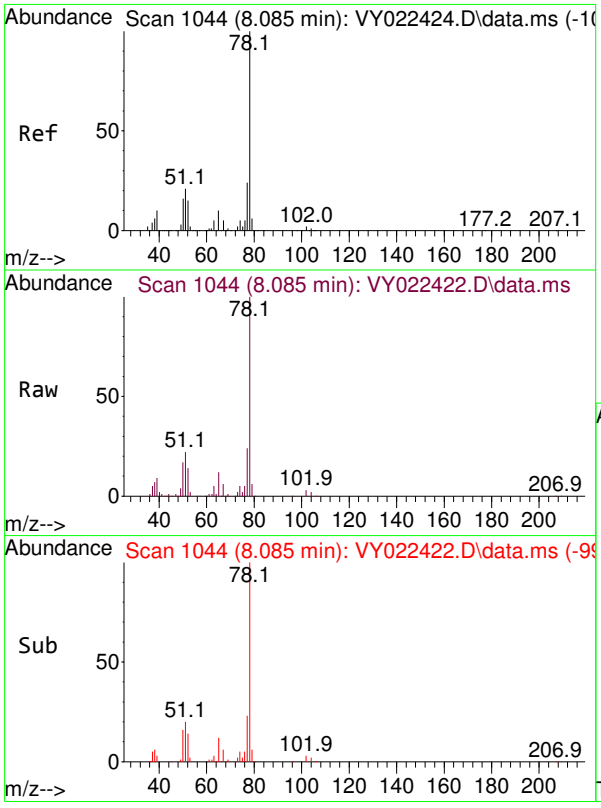
Supervised By :Mahesh Dadoda 05/28/2025

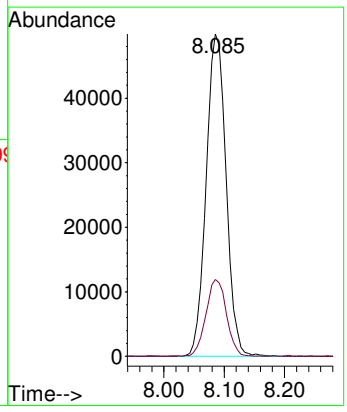


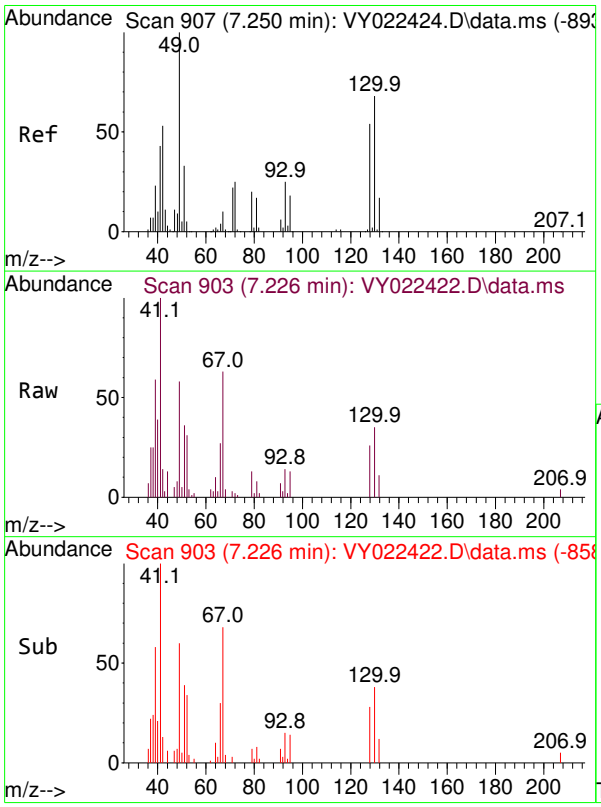


#40
Benzene
Concen: 9.489 ug/l
RT: 8.085 min Scan# 1044
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 78 Resp: 114576

Ion	Ratio	Lower	Upper
78	100		
77	23.9	19.4	29.2

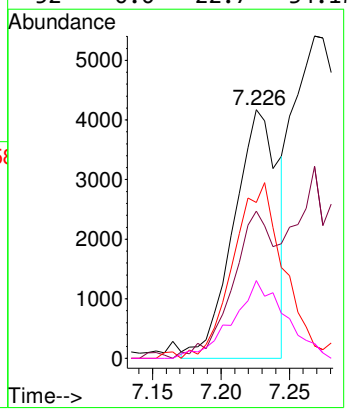




#41
Methacrylonitrile
Concen: 4.158 ug/l m
RT: 7.226 min Scan# 9
Delta R.T. -0.024 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 41 Resp: 943

Ion	Ratio	Lower	Upper
41	100		
39	80.5	40.4	60.6
67	0.0	53.0	79.4
52	0.0	22.7	34.1#



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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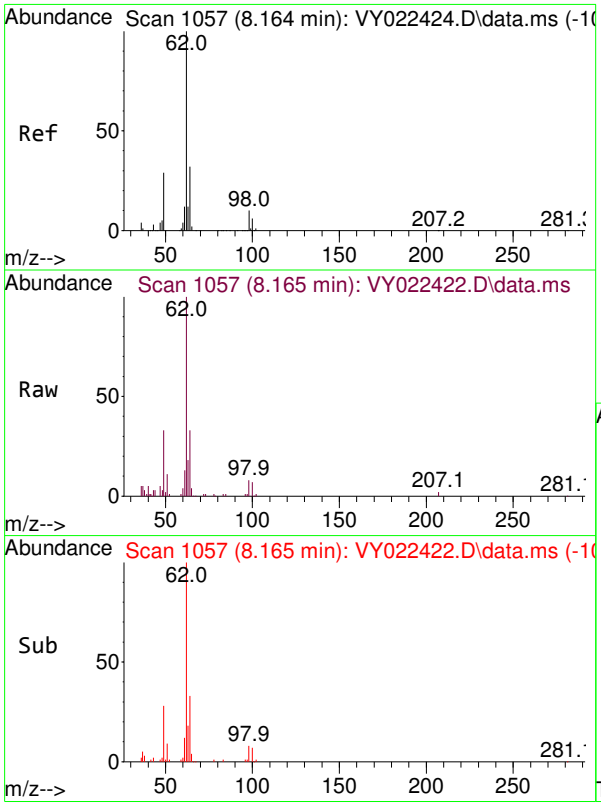
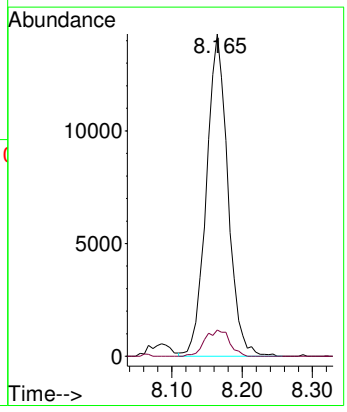
Supervised By :Mahesh Dadoda 05/28/2025

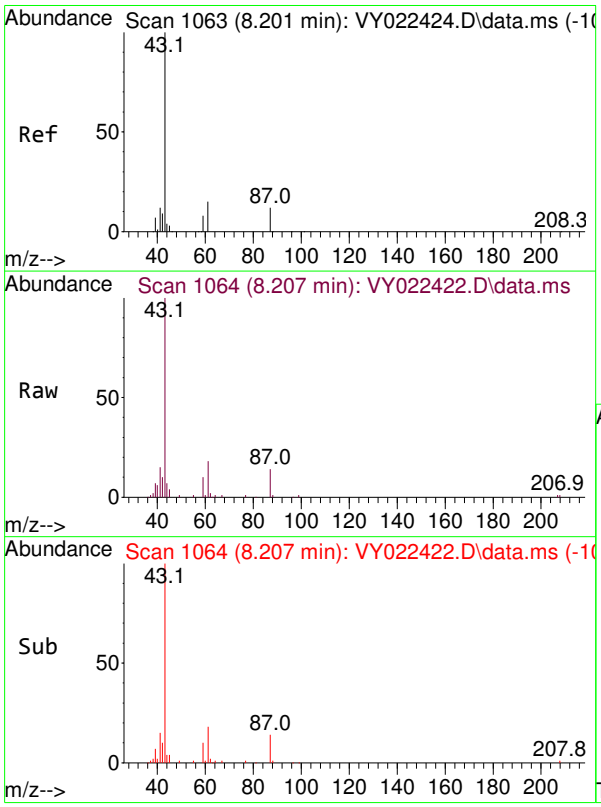


#42
1,2-Dichloroethane
Concen: 9.517 ug/l
RT: 8.165 min Scan# 1057
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 62 Resp: 30350

Ion	Ratio	Lower	Upper
62	100		
98	9.4	0.0	18.4





#43
Isopropyl Acetate
Concen: 9.707 ug/l
RT: 8.207 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 43 Resp: 3658

Ion	Ratio	Lower	Upper
43	100		
61	18.0	15.4	23.0
87	12.5	10.6	15.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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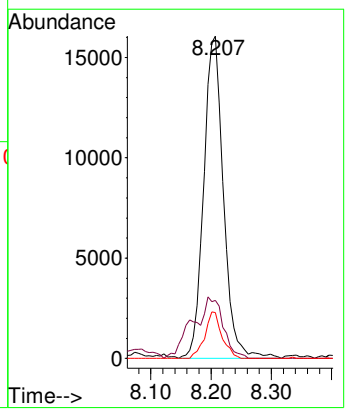
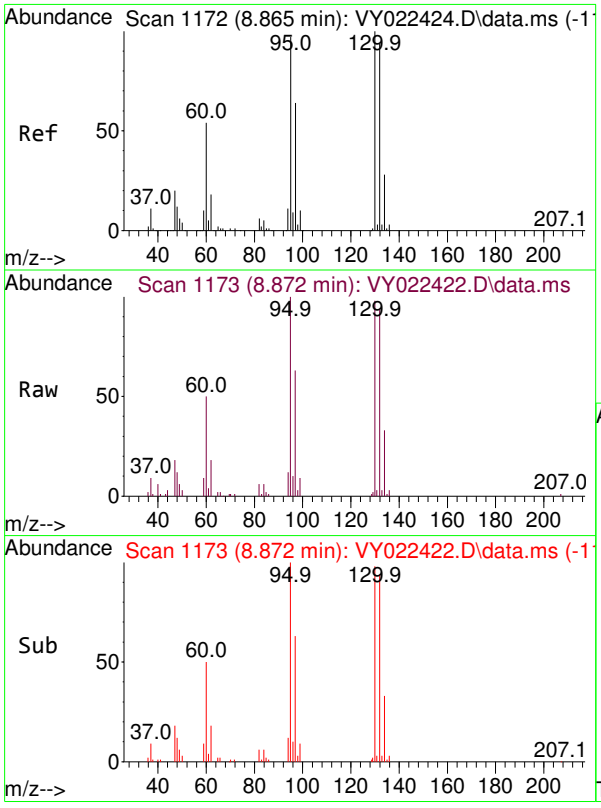
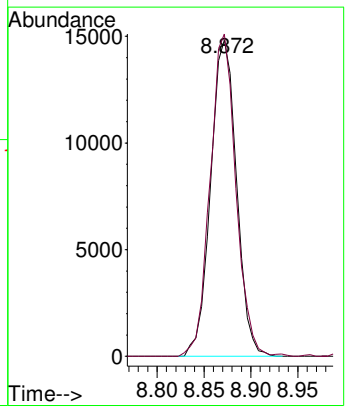


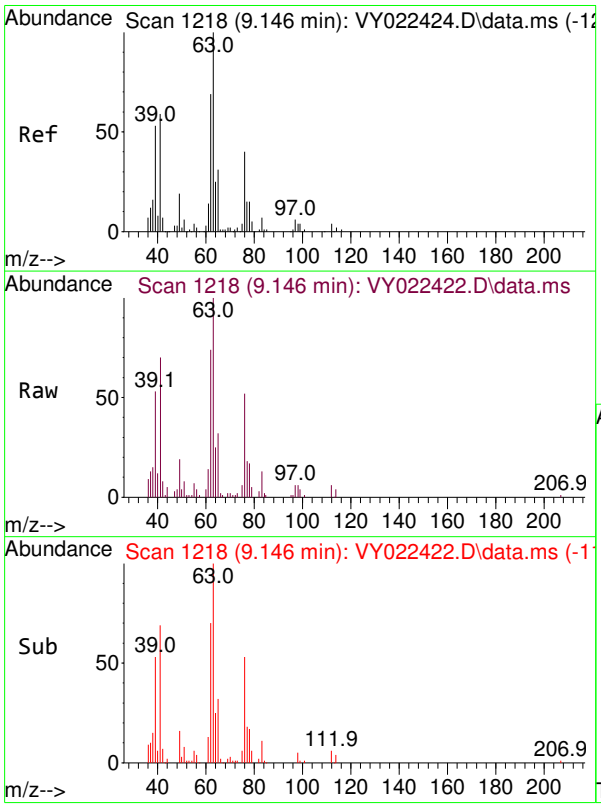


#44
Trichloroethene
Concen: 9.516 ug/l
RT: 8.872 min Scan# 1173
Delta R.T. 0.006 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion:130 Resp: 28407

Ion	Ratio	Lower	Upper
130	100		
95	102.0	0.0	194.8





#45
1,2-Dichloropropane
Concen: 9.447 ug/l
RT: 9.146 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 63 Resp: 2680

Ion	Ratio	Lower	Upper
63	100		
65	32.3	25.1	37.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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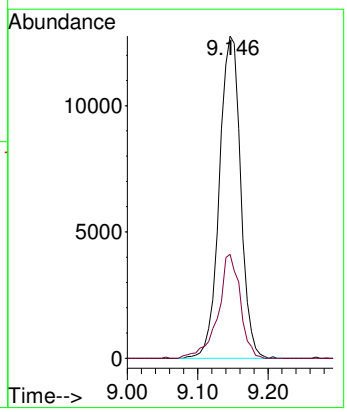
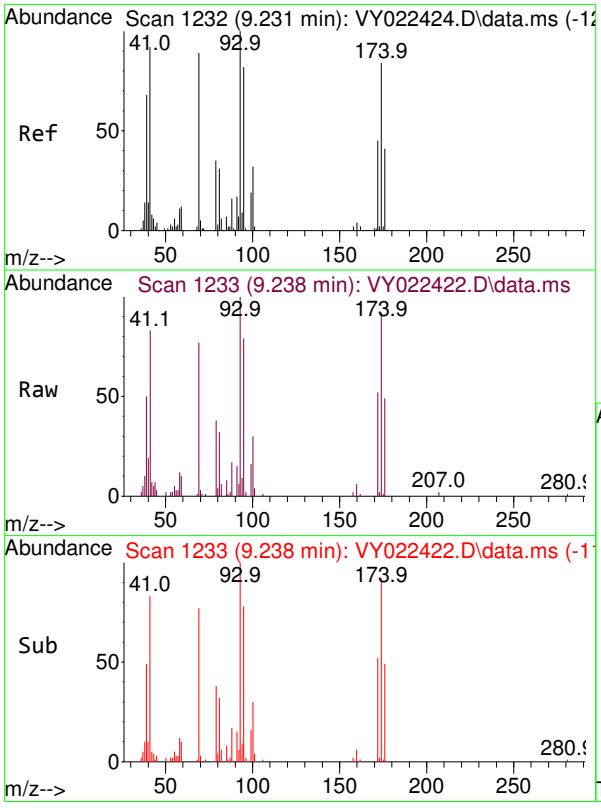
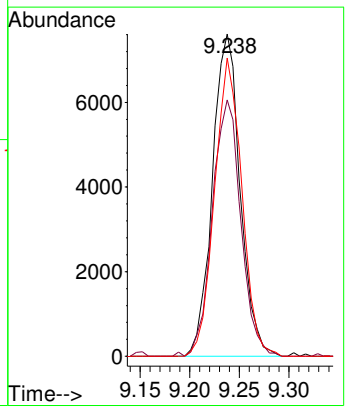


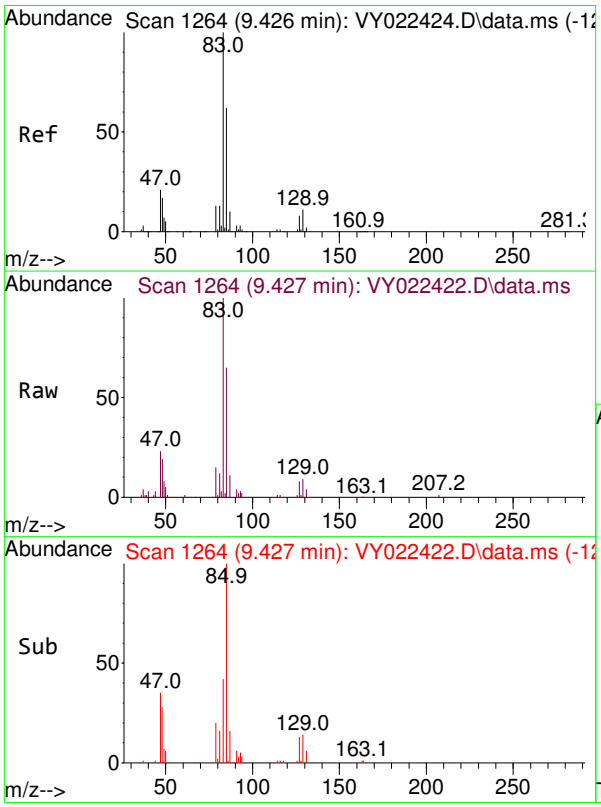


#46
Dibromomethane
Concen: 9.351 ug/l
RT: 9.238 min Scan# 1233
Delta R.T. 0.006 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 93 Resp: 14820

Ion	Ratio	Lower	Upper
93	100		
95	81.8	66.2	99.2
174	91.3	71.1	106.7





#47
Bromodichloromethane
Concen: 9.620 ug/l
RT: 9.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 83 Resp: 3920

Ion	Ratio	Lower	Upper
83	100		
85	64.6	49.8	74.6
127	8.3	6.6	9.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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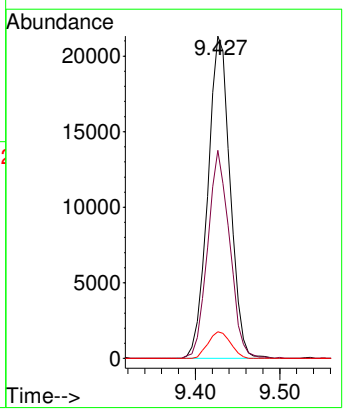
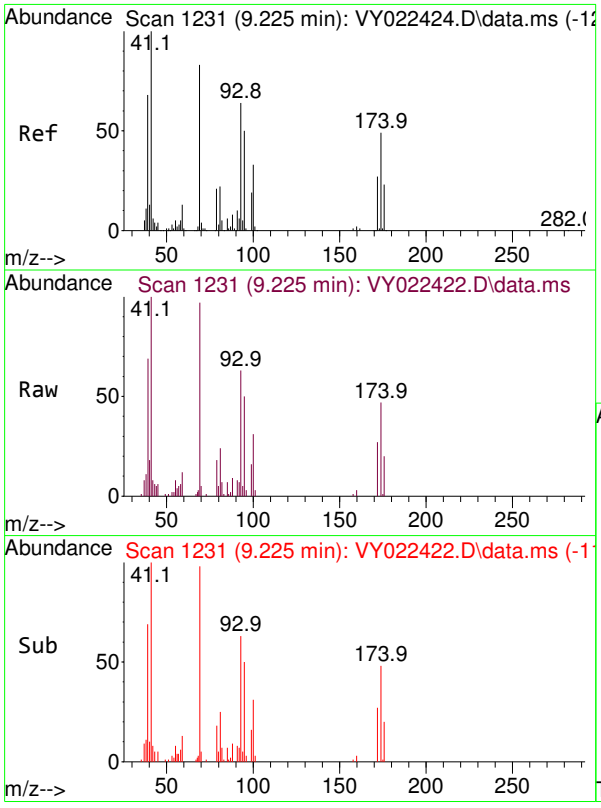
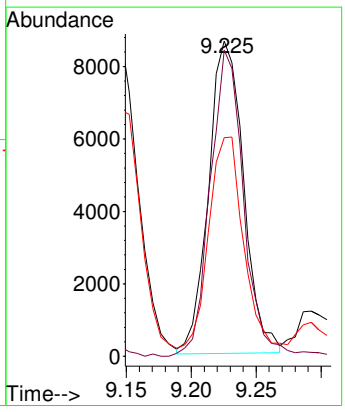


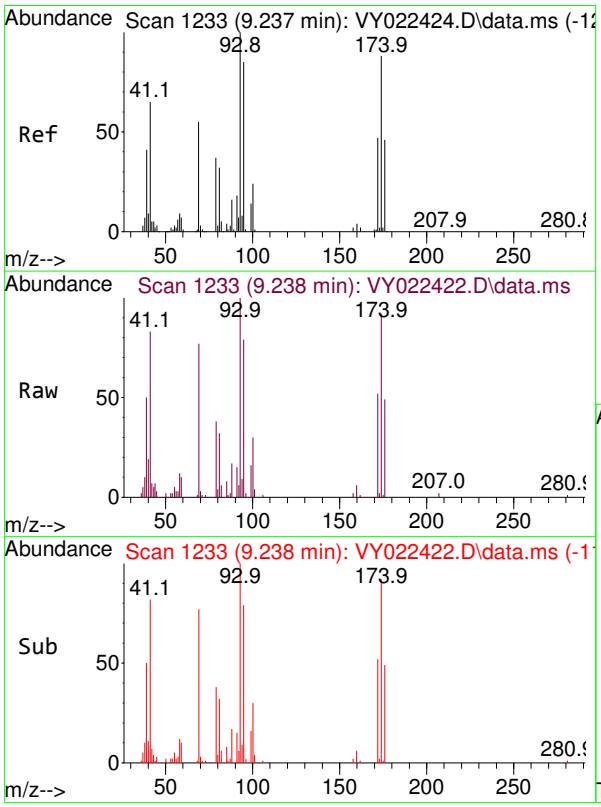


#48
Methyl methacrylate
Concen: 9.239 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 41 Resp: 16163

Ion	Ratio	Lower	Upper
41	100		
69	93.8	70.3	105.5
39	67.0	55.4	83.0





#49
1,4-Dioxane
Concen: 181.086 ug/l
RT: 9.238 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 88 Resp: 317

Ion	Ratio	Lower	Upper
88	100		
43	33.0	26.9	40.3
58	74.4	55.8	83.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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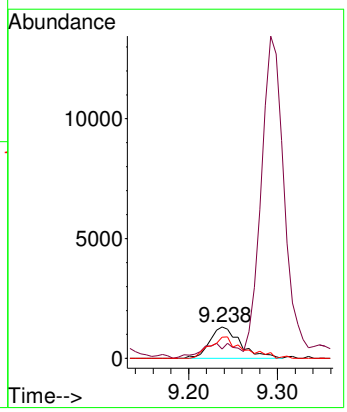
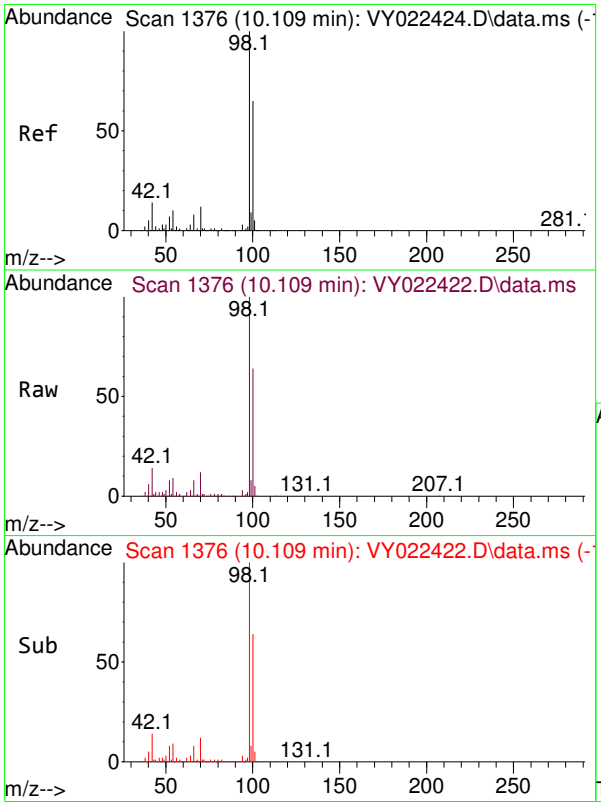
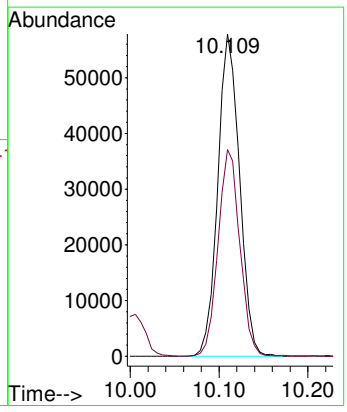


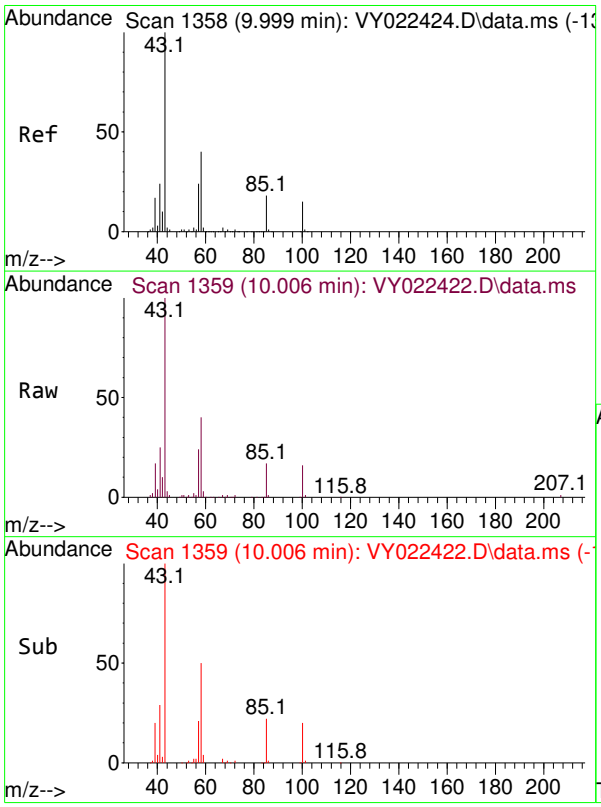


#50
Toluene-d8
Concen: 9.493 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 98 Resp: 98965

Ion	Ratio	Lower	Upper
98	100		
100	64.1	52.2	78.2





#51
4-Methyl-2-Pentanone
Concen: 46.358 ug/l
RT: 10.006 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 43 Resp: 8620

Ion	Ratio	Lower	Upper
43	100		
58	37.8	31.2	46.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
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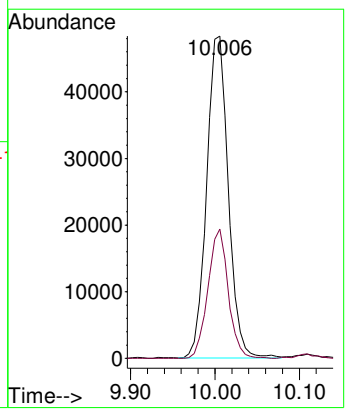
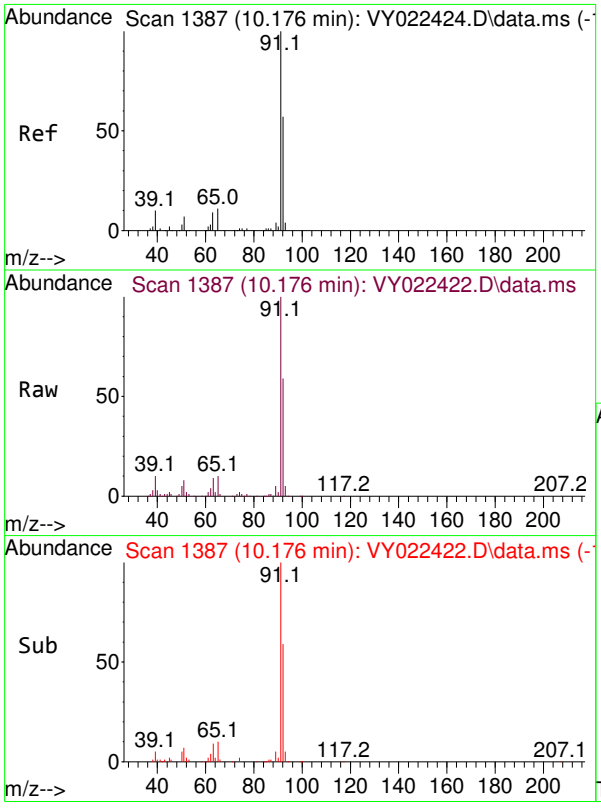
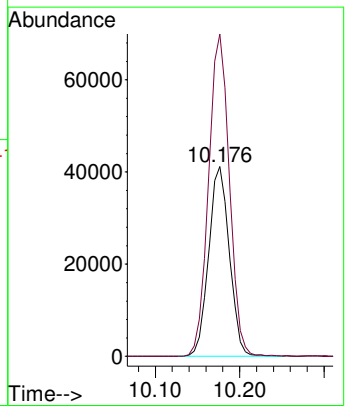


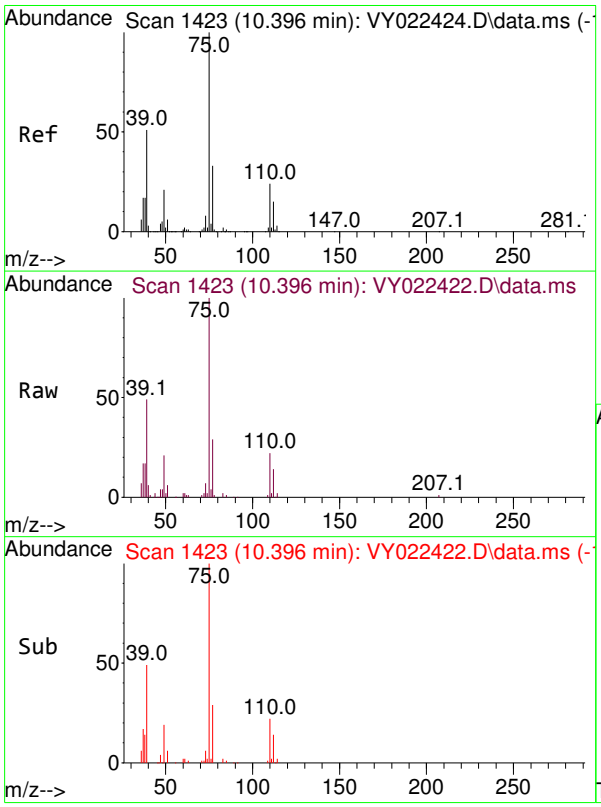


#52
Toluene
Concen: 9.320 ug/l
RT: 10.176 min Scan# 1387
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 92 Resp: 70294

Ion	Ratio	Lower	Upper
92	100		
91	171.4	139.8	209.6





#53
t-1,3-Dichloropropene
Concen: 9.528 ug/l
RT: 10.396 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 75 Resp: 3617

Ion	Ratio	Lower	Upper
75	100		
77	28.8	26.2	39.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
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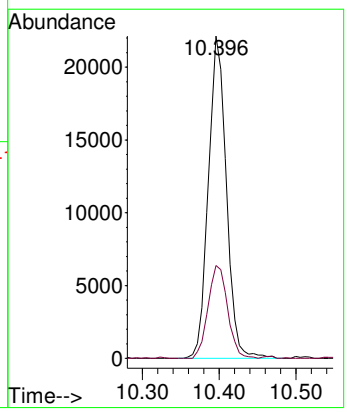
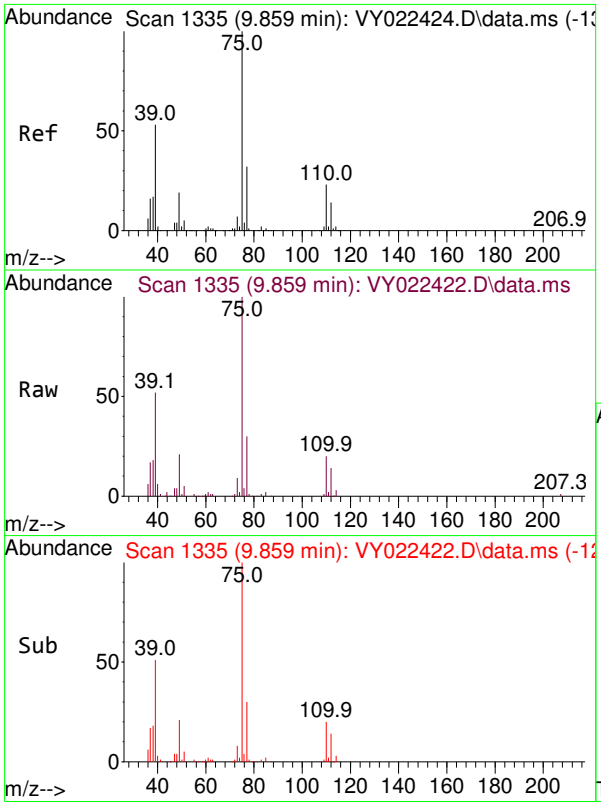
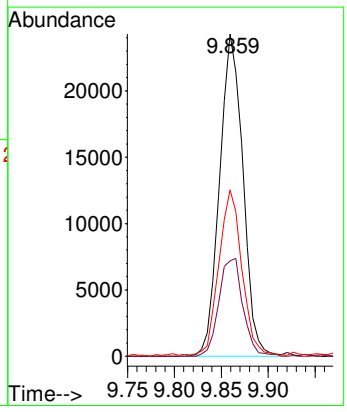


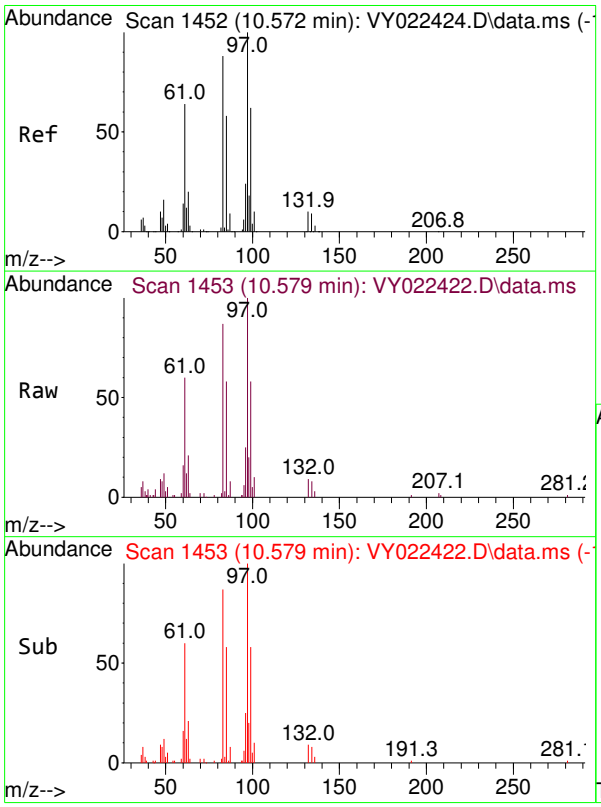


#54
cis-1,3-Dichloropropene
Concen: 9.403 ug/l
RT: 9.859 min Scan# 1335
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 75 Resp: 41945

Ion	Ratio	Lower	Upper
75	100		
77	29.6	25.4	38.2
39	51.3	42.5	63.7

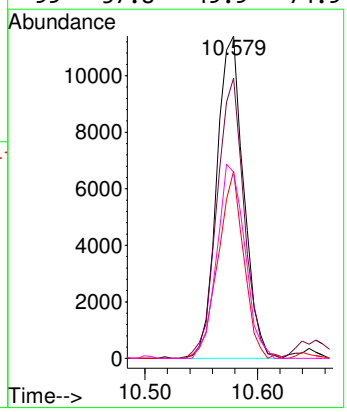




#55
1,1,2-Trichloroethane
Concen: 9.423 ug/l
RT: 10.579 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 97 Resp: 1888

Ion	Ratio	Lower	Upper
97	100		
83	87.0	70.2	105.4
85	58.0	46.1	69.1
99	57.8	49.9	74.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
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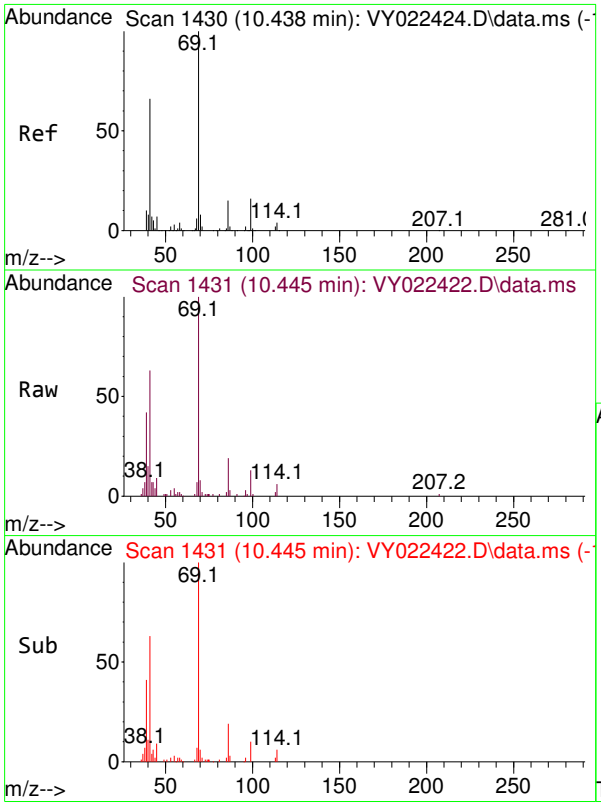
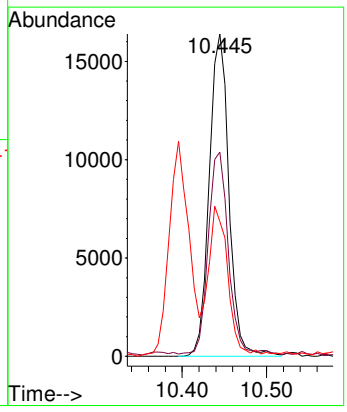
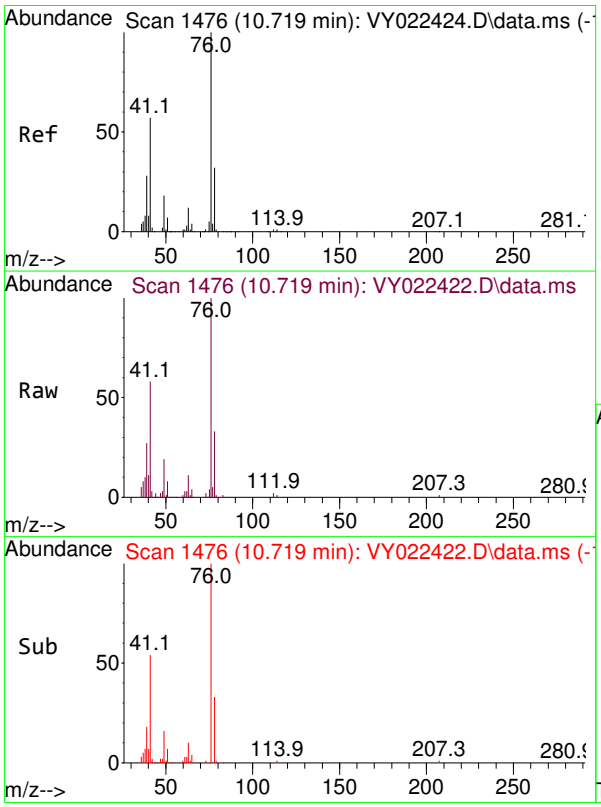


#56
Ethyl methacrylate
Concen: 9.270 ug/l
RT: 10.445 min Scan# 1431
Delta R.T. 0.006 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 69 Resp: 26658

Ion	Ratio	Lower	Upper
69	100		
41	63.1	51.2	76.8
39	44.7	35.2	52.8





#57
1,3-Dichloropropane
Concen: 9.587 ug/l
RT: 10.719 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 76 Resp: 3385

Ion	Ratio	Lower	Upper
76	100		
78	33.3	25.8	38.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :Amit Patel 05/28/2025
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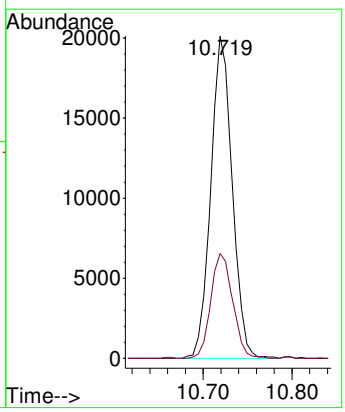
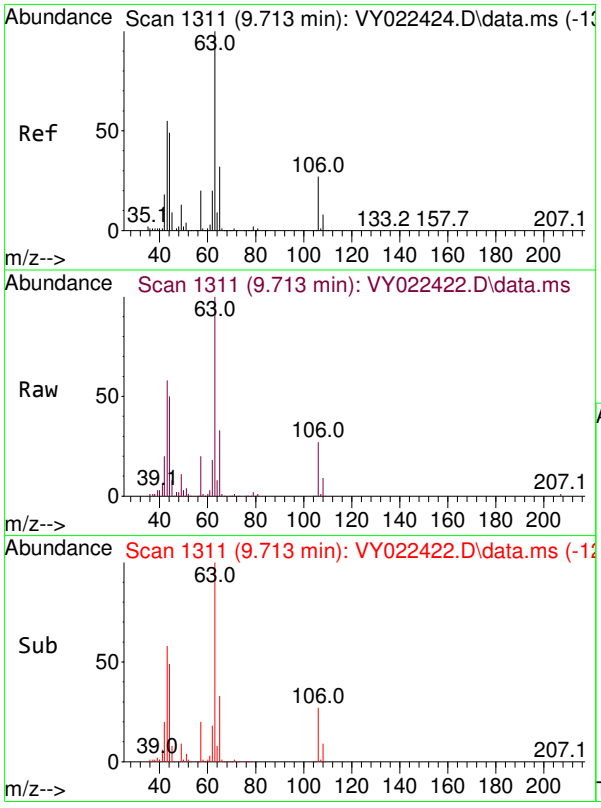
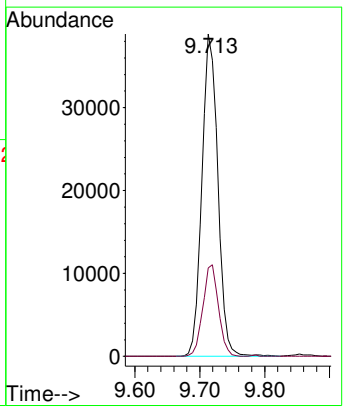


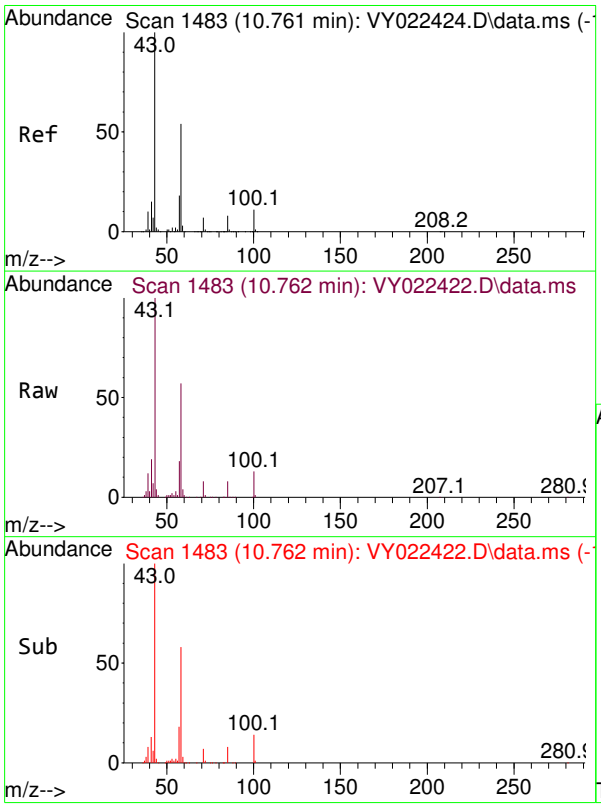


#58
2-Chloroethyl Vinyl ether
Concen: 46.196 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 63 Resp: 66205

Ion	Ratio	Lower	Upper
63	100		
106	27.7	22.2	33.2





#59
2-Hexanone
Concen: 44.963 ug/l
RT: 10.762 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 43 Resp: 5479

Ion	Ratio	Lower	Upper
43	100		
58	55.0	27.1	81.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
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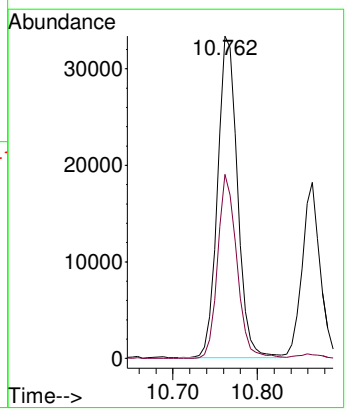
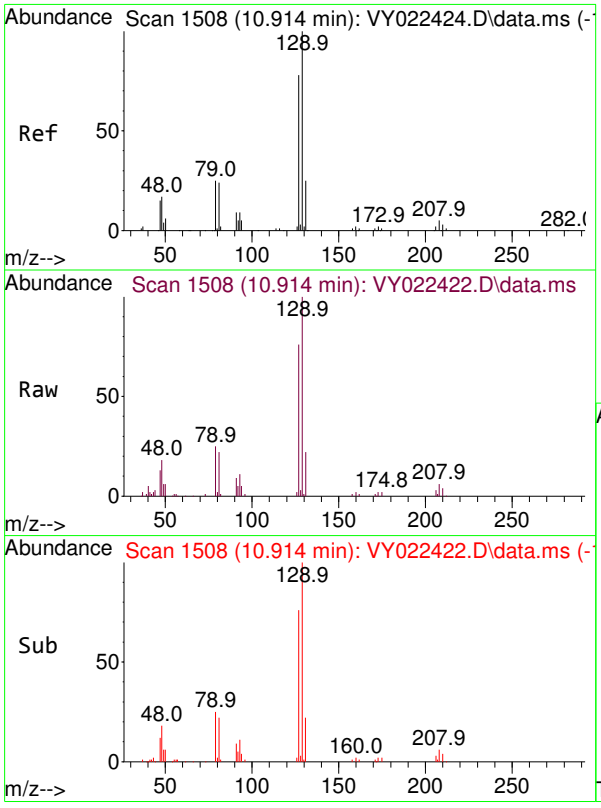
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

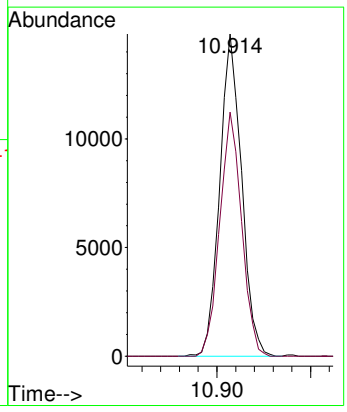


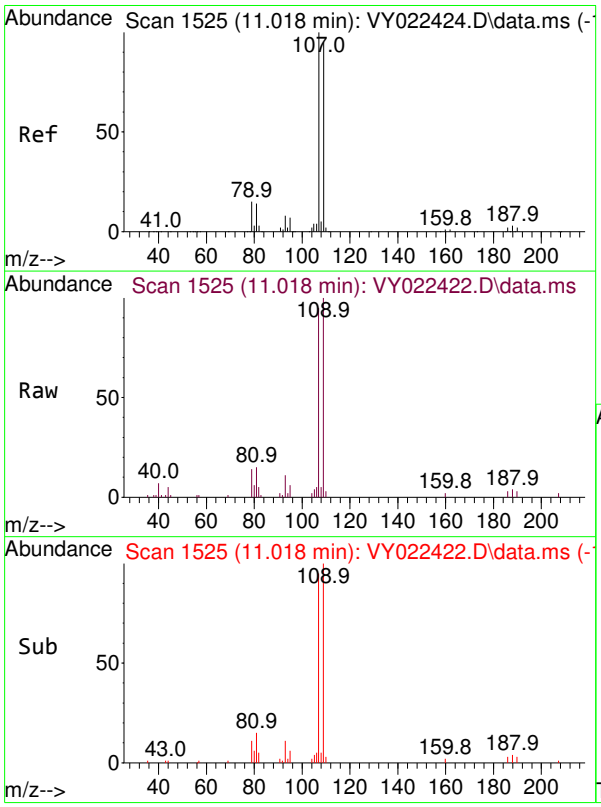


#60
Dibromochloromethane
Concen: 9.340 ug/l
RT: 10.914 min Scan# 1508
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion:129 Resp: 23908

Ion	Ratio	Lower	Upper
129	100		
127	75.7	38.3	114.8





#61
1,2-Dibromoethane
Concen: 9.016 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion:107 Resp: 1652

Ion	Ratio	Lower	Upper
107	100		
109	101.1	74.0	111.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
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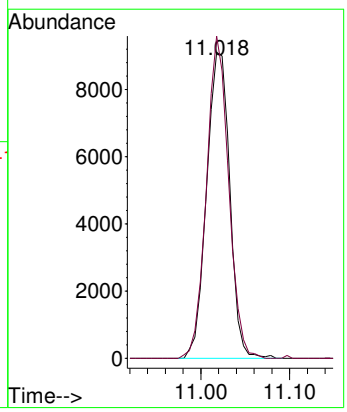
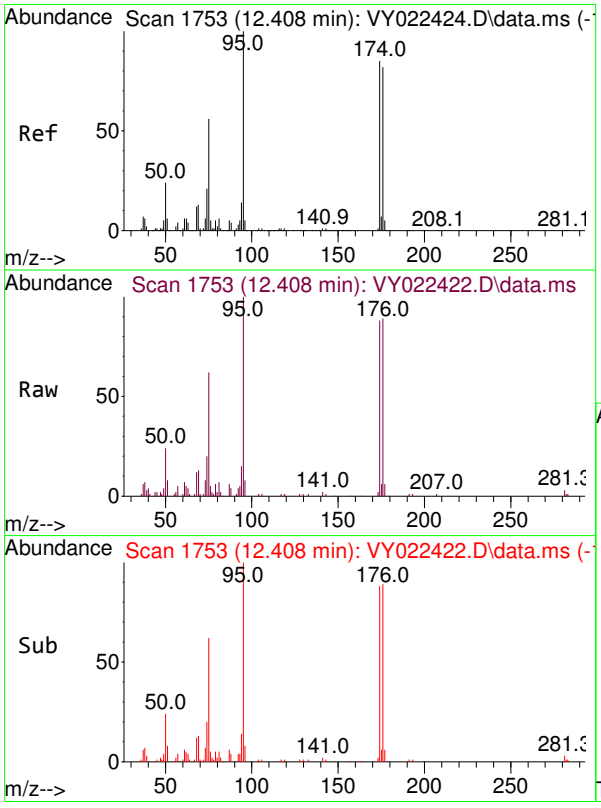
Supervised By :Mahesh Dadoda 05/28/2025

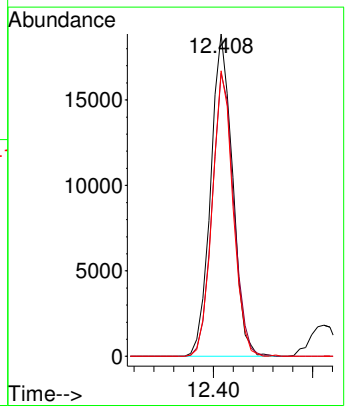


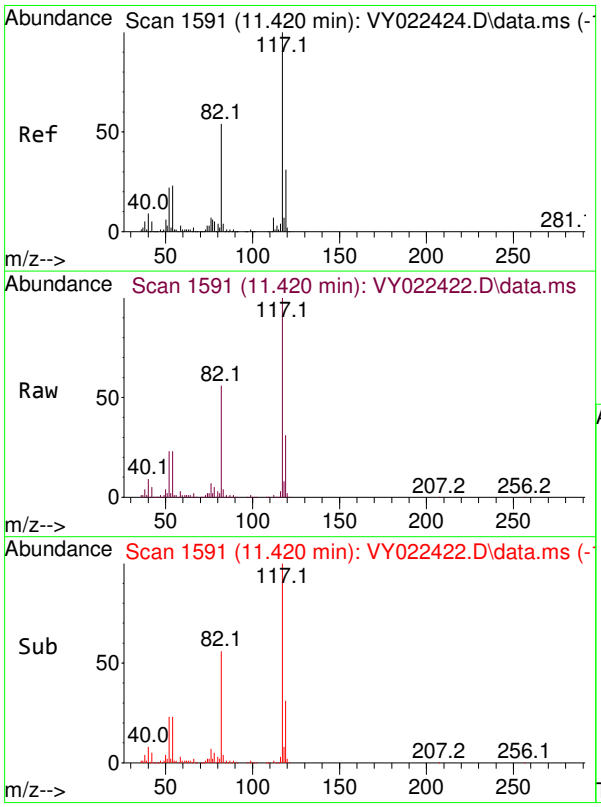


#62
4-Bromofluorobenzene
Concen: 9.163 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 95 Resp: 28894

Ion	Ratio	Lower	Upper
95	100		
174	86.7	0.0	171.6
176	84.0	0.0	164.6





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion:117 Resp: 36268

Ion	Ratio	Lower	Upper
117	100		
82	55.7	43.3	64.9
119	31.3	24.5	36.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
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Reviewed By :Amit Patel 05/28/2025
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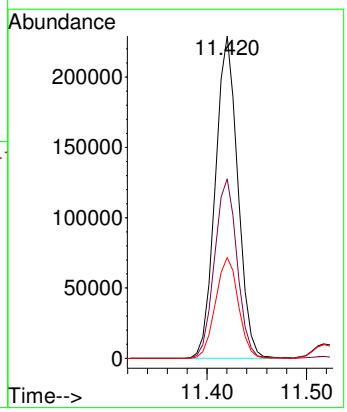
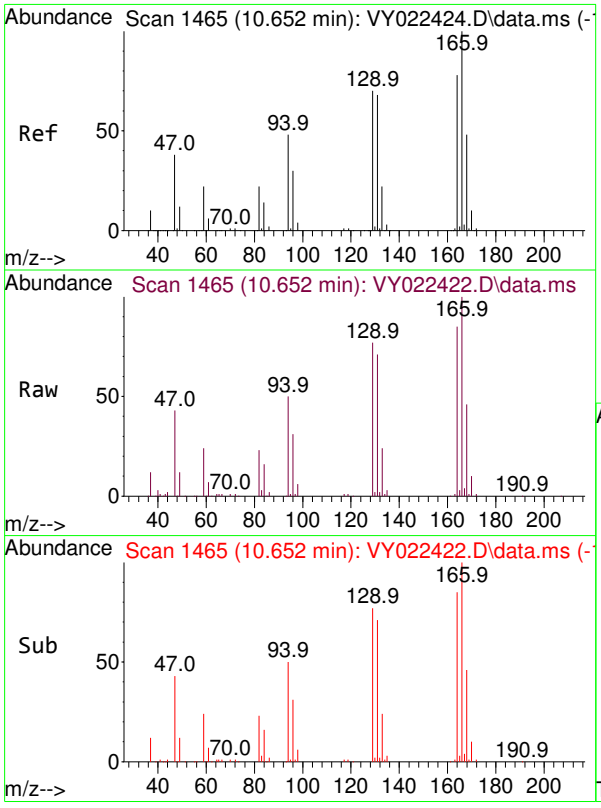
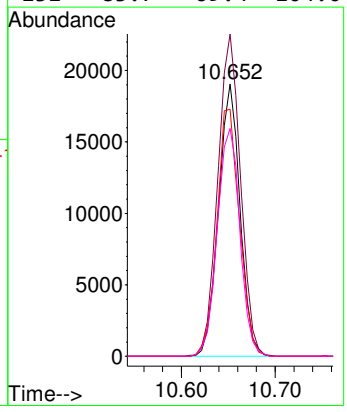


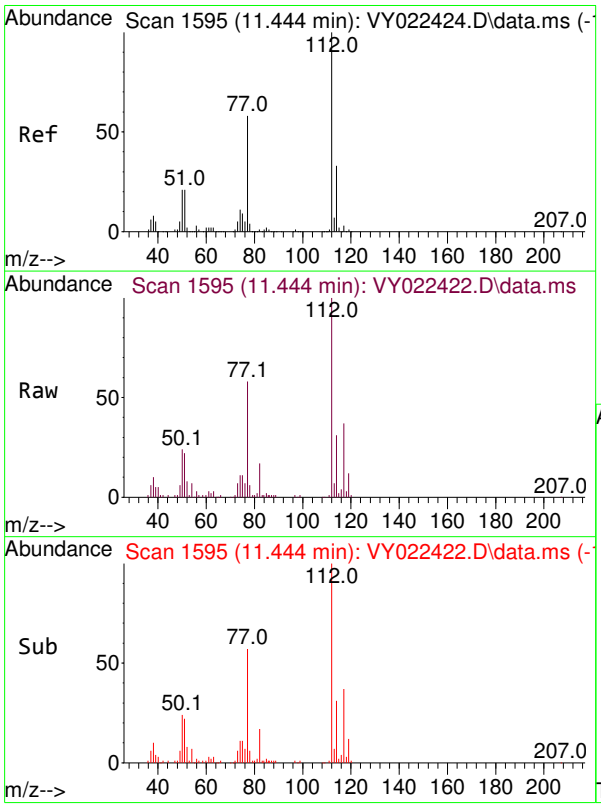


#64
Tetrachloroethene
Concen: 9.789 ug/l
RT: 10.652 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion:164 Resp: 30237

Ion	Ratio	Lower	Upper
164	100		
166	118.3	102.0	153.0
129	90.7	71.3	106.9
131	83.7	69.4	104.0





#65
Chlorobenzene
Concen: 9.376 ug/l
RT: 11.444 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion:112 Resp: 7250

Ion	Ratio	Lower	Upper
112	100		
114	31.3	26.1	39.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
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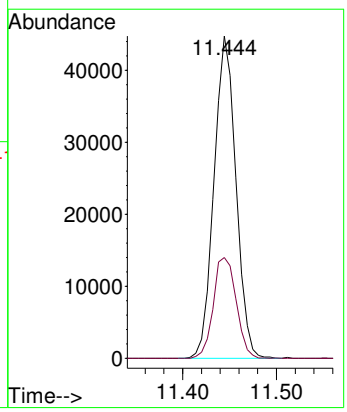
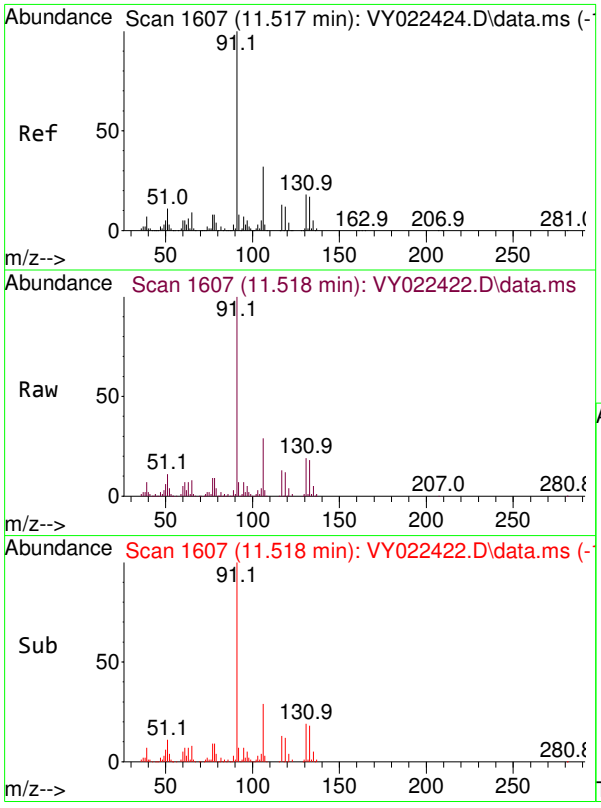
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

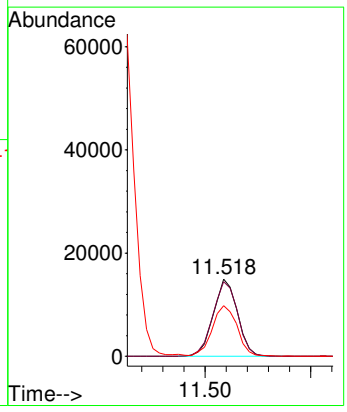


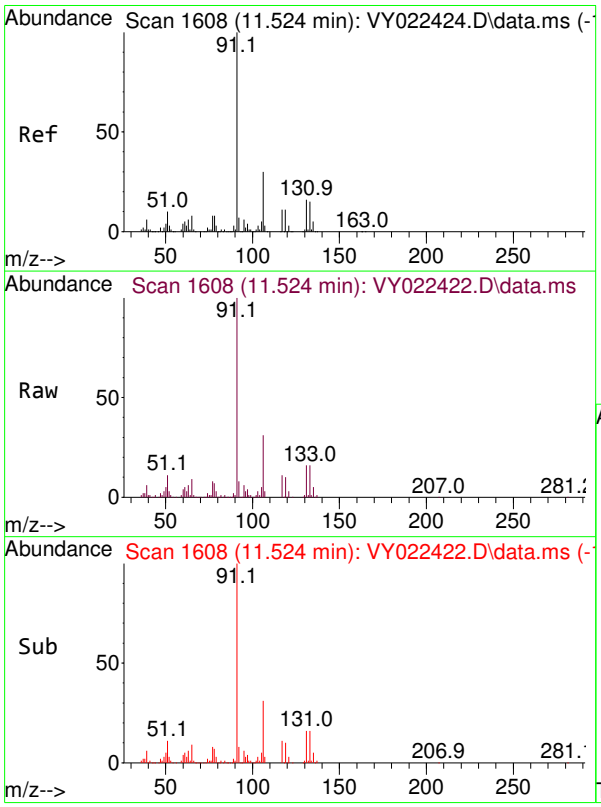


#66
1,1,1,2-Tetrachloroethane
Concen: 9.080 ug/l
RT: 11.518 min Scan# 1607
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion:131 Resp: 23791

Ion	Ratio	Lower	Upper
131	100		
133	99.8	46.6	139.8
119	68.1	33.3	99.8





#67
Ethyl Benzene
Concen: 9.236 ug/l
RT: 11.524 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 91 Resp: 13262

Ion	Ratio	Lower	Upper
91	100		
106	31.1	24.4	36.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
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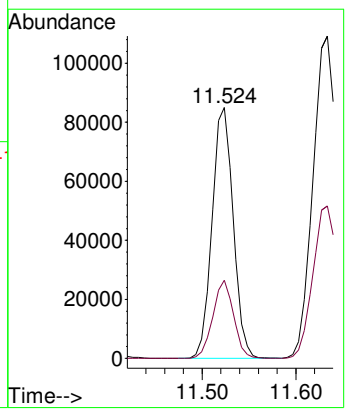
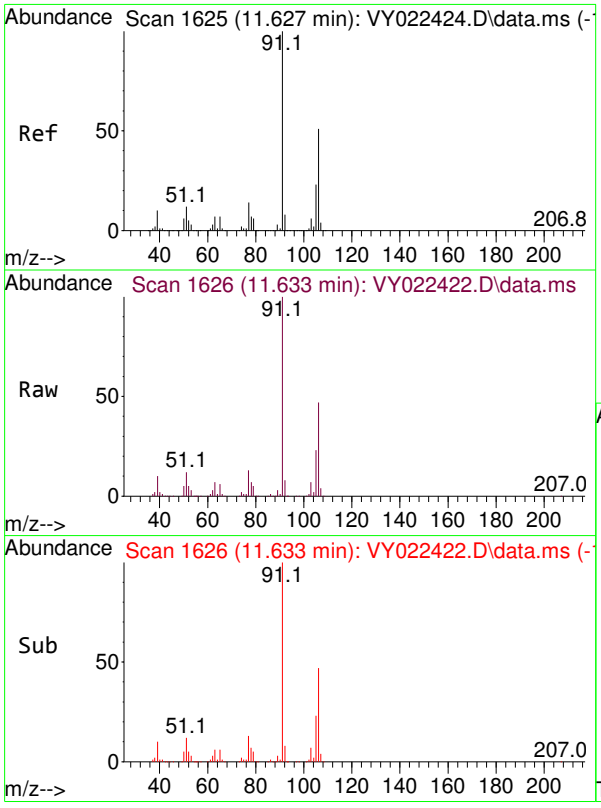
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

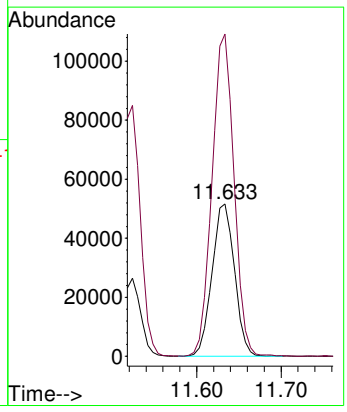


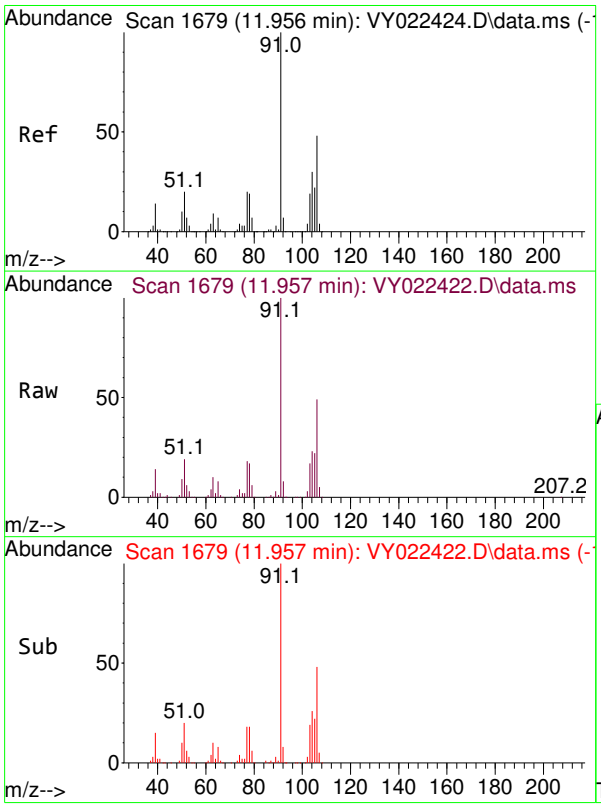


#68
m/p-Xylenes
Concen: 17.586 ug/l
RT: 11.633 min Scan# 1626
Delta R.T. 0.006 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion:106 Resp: 95743

Ion	Ratio	Lower	Upper
106	100		
91	207.2	159.8	239.8





#69
o-Xylene
Concen: 9.028 ug/l
RT: 11.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion:106 Resp: 4619

Ion	Ratio	Lower	Upper
106	100		
91	209.9	106.3	318.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
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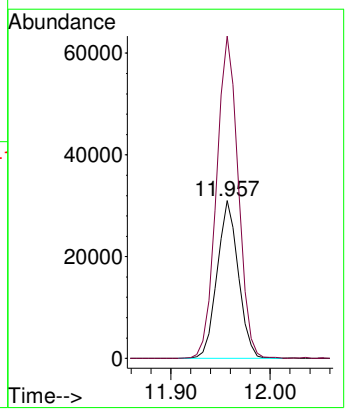
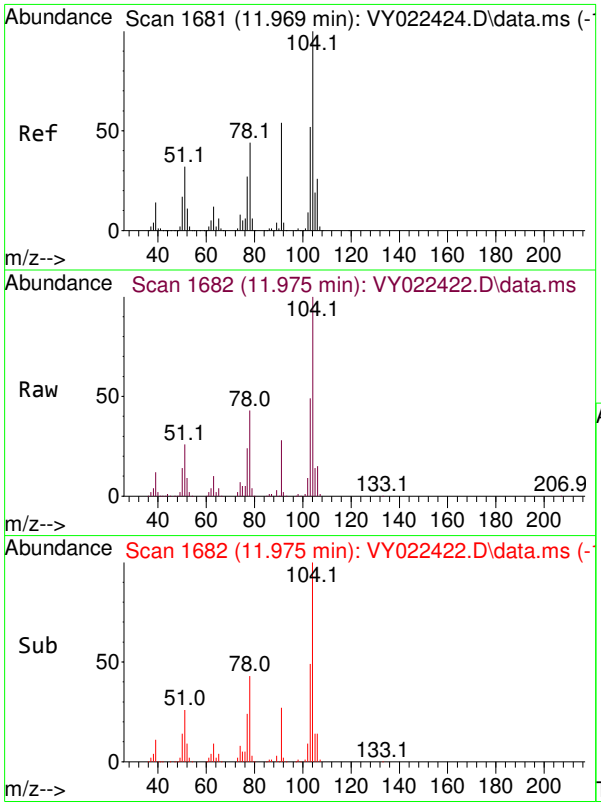
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

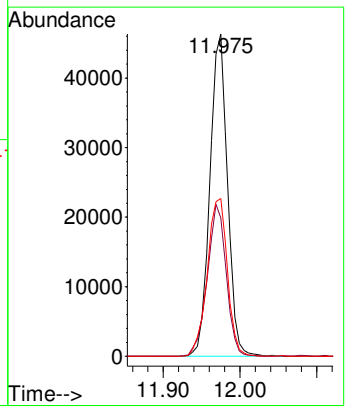


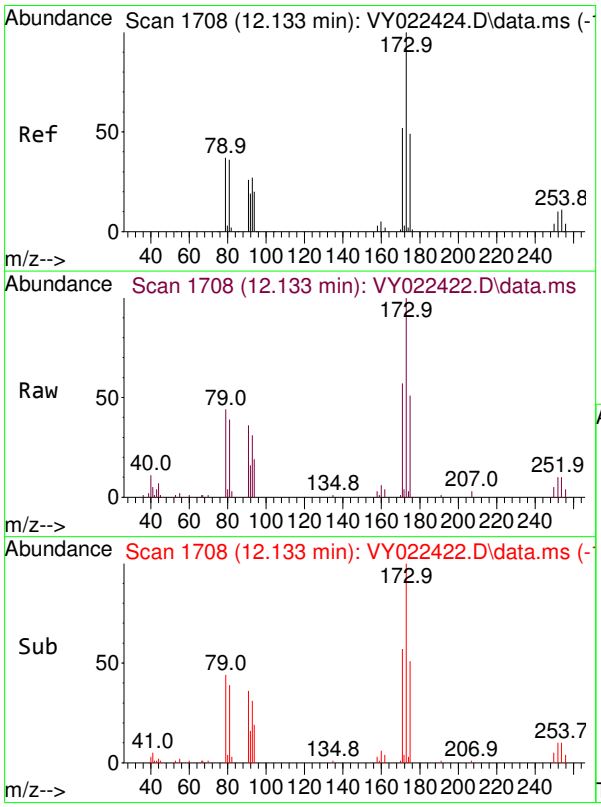


#70
Styrene
Concen: 8.685 ug/l
RT: 11.975 min Scan# 1682
Delta R.T. 0.006 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion:104 Resp: 73993

Ion	Ratio	Lower	Upper
104	100		
78	50.8	38.8	58.2
103	55.9	43.4	65.2





#71
Bromoform
Concen: 9.287 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion:173 Resp: 1274

Ion	Ratio	Lower	Upper
173	100		
175	49.3	24.3	73.0
254	0.0	0.1	0.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
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Reviewed By :Amit Patel 05/28/2025
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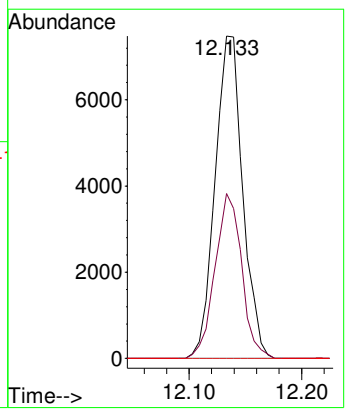
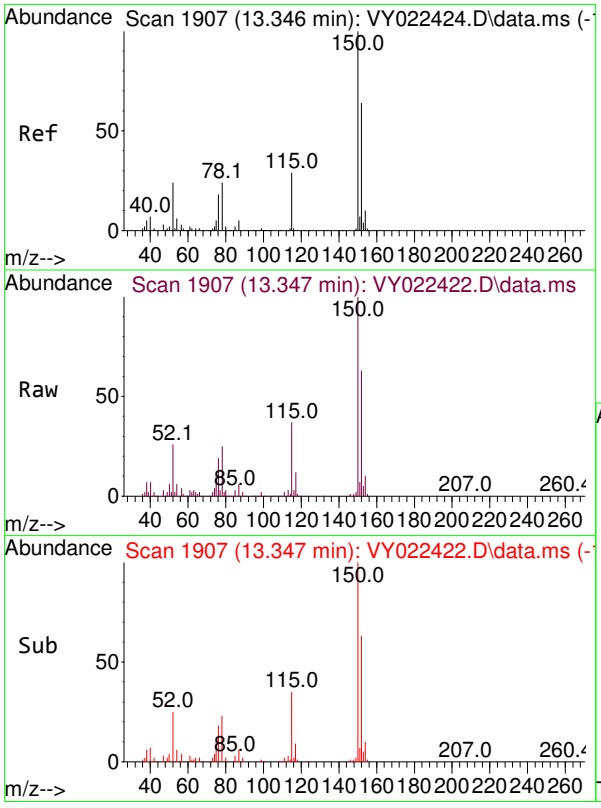
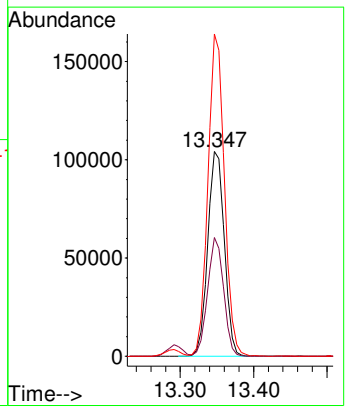


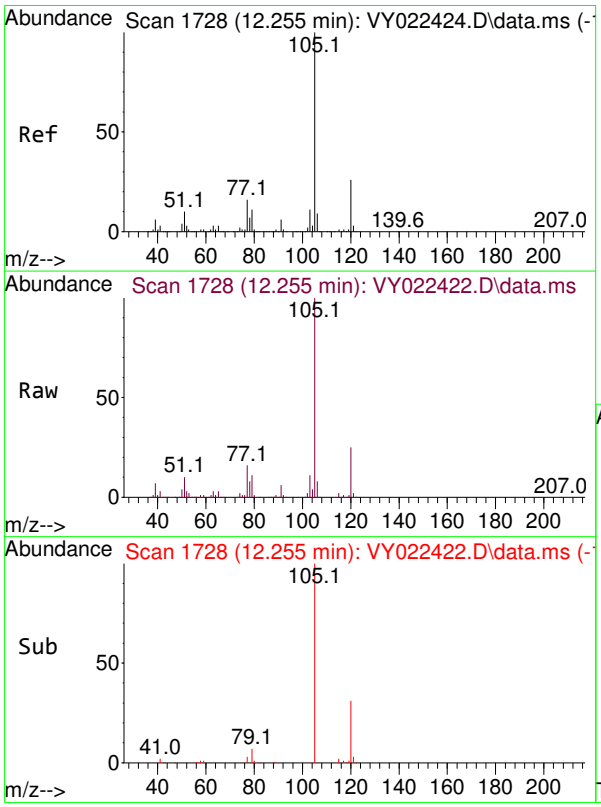


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion:152 Resp: 162991

Ion	Ratio	Lower	Upper
152	100		
115	56.0	28.4	85.3
150	155.9	0.0	345.8





#73
Isopropylbenzene
Concen: 9.507 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion:105 Resp: 12196

Ion	Ratio	Lower	Upper
105	100		
120	26.0	13.2	39.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

Reviewed By :Amit Patel 05/28/2025
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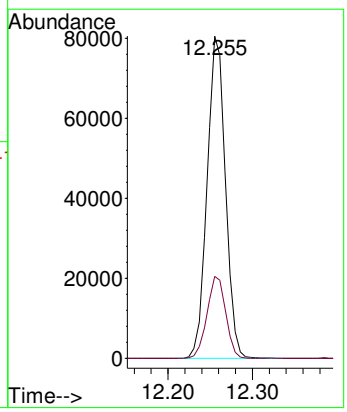
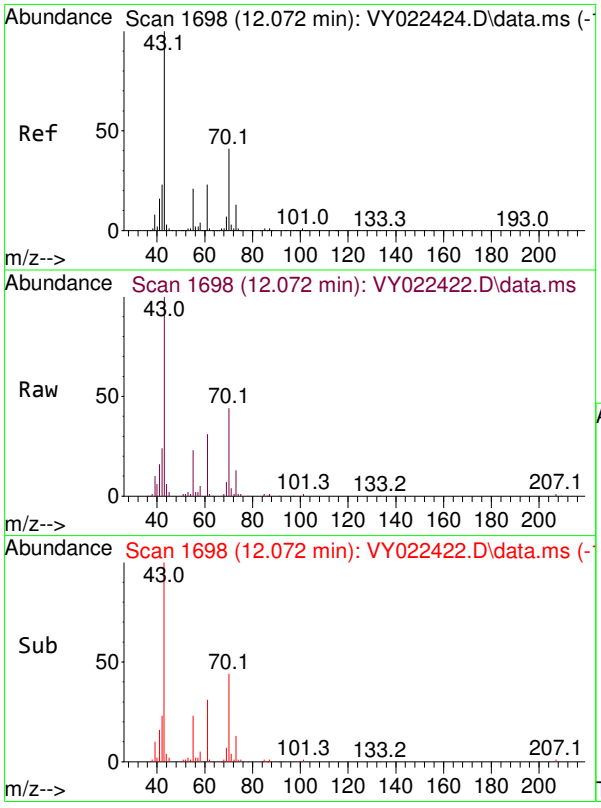
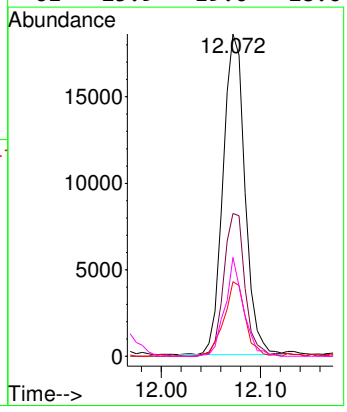


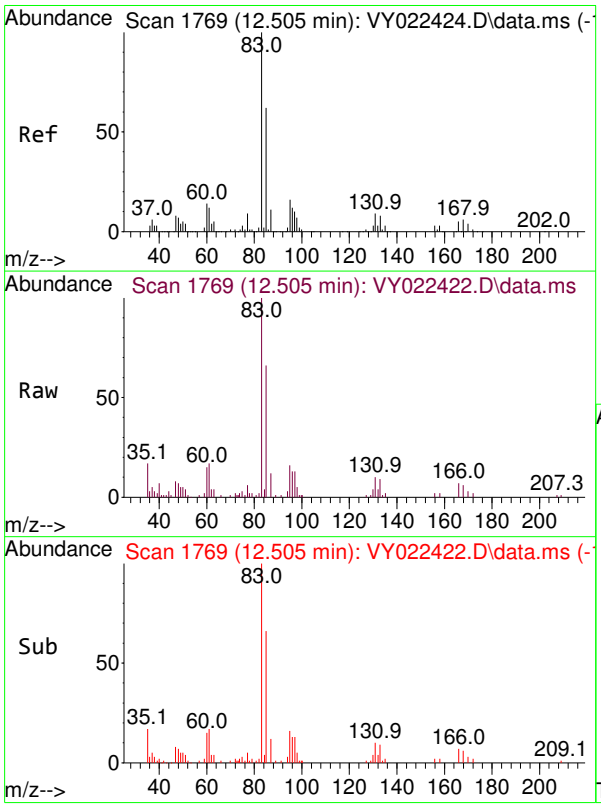


#74
N-amyl acetate
Concen: 9.114 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 43 Resp: 28607

Ion	Ratio	Lower	Upper
43	100		
70	44.1	33.0	49.4
55	22.9	17.5	26.3
61	25.9	19.0	28.6





#75
1,1,2,2-Tetrachloroethane
Concen: 9.262 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 83 Resp: 1872

Ion	Ratio	Lower	Upper
83	100		
131	10.8	4.8	14.4
85	64.1	32.0	96.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
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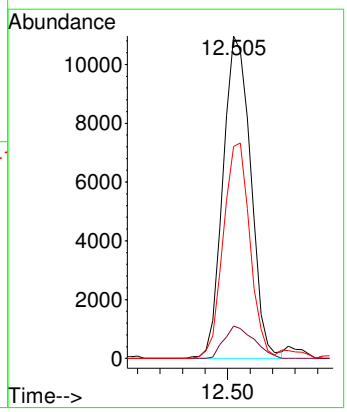
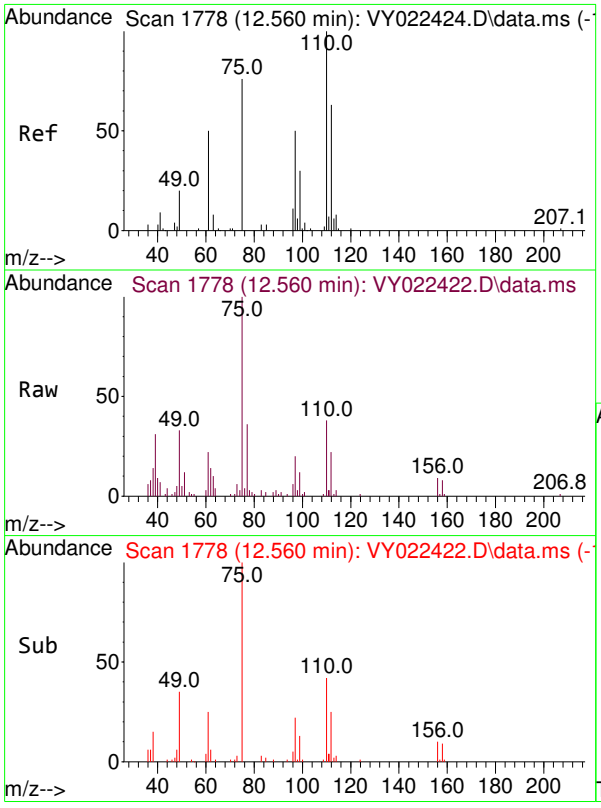
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

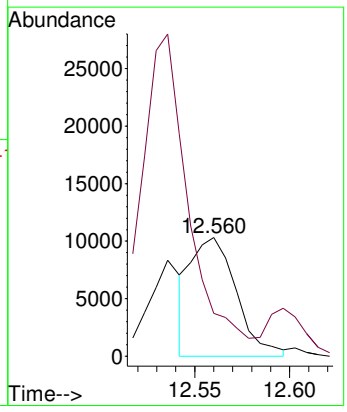


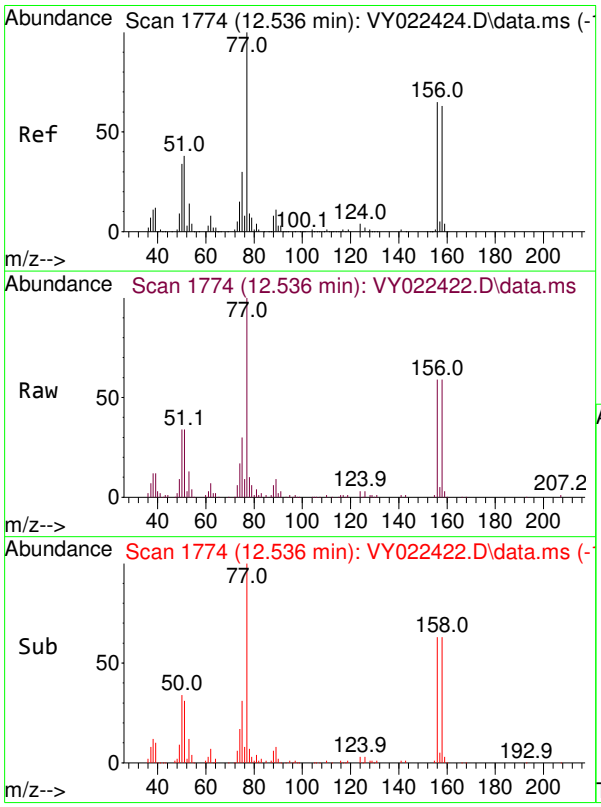


#76
1,2,3-Trichloropropane
Concen: 6.404 ug/l m
RT: 12.560 min Scan# 1778
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 75 Resp: 17196

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0





#77
Bromobenzene
Concen: 9.584 ug/l
RT: 12.536 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

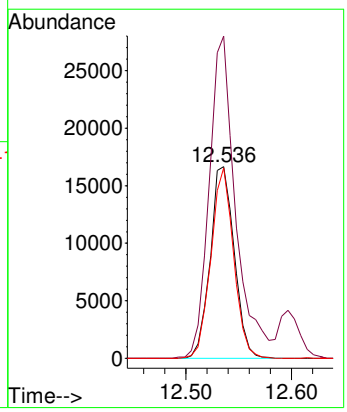
Tgt Ion:156 Resp: 2645

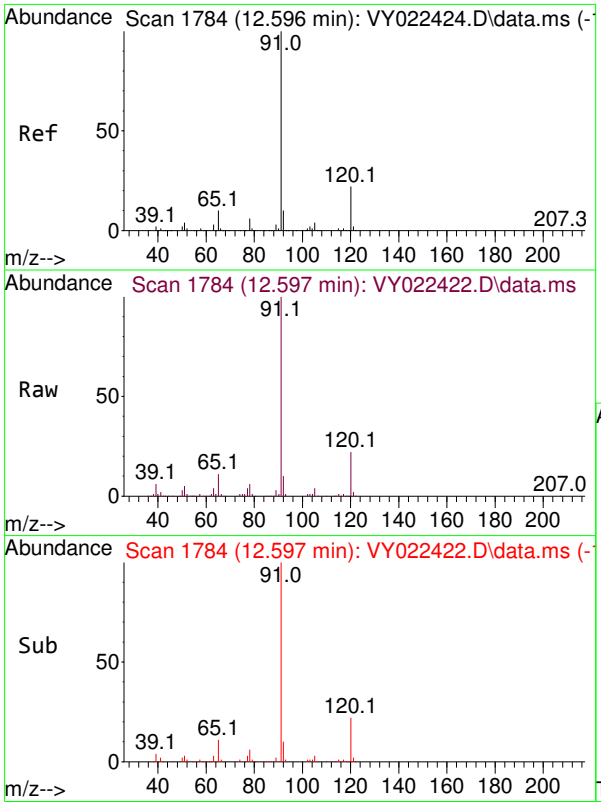
Ion	Ratio	Lower	Upper
156	100		
77	184.0	91.4	274.2
158	94.1	48.1	144.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

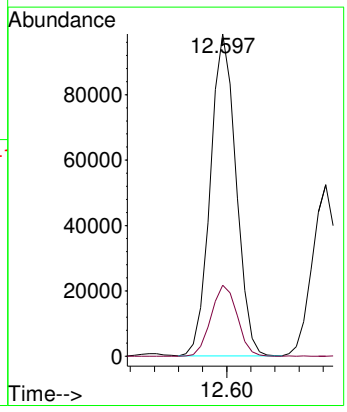


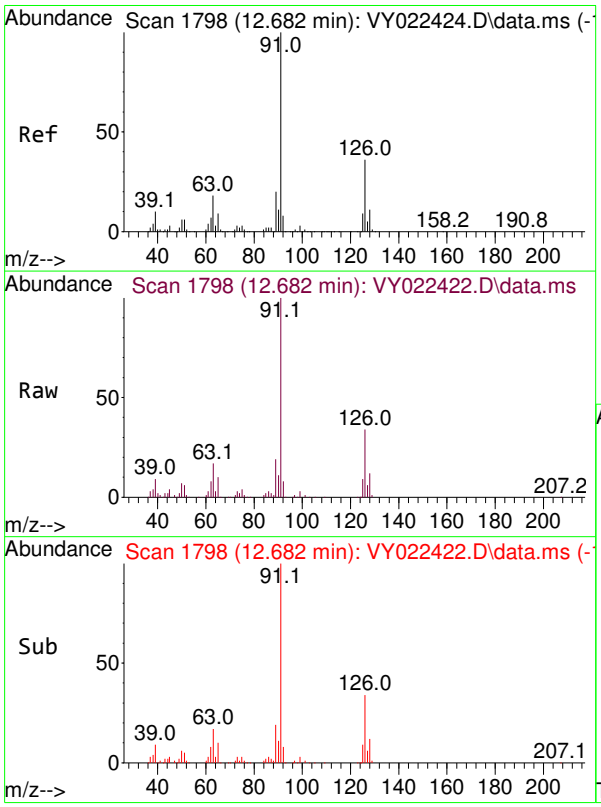


#78
n-propylbenzene
Concen: 9.459 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 91 Resp: 145616

Ion	Ratio	Lower	Upper
91	100		
120	22.5	11.2	33.5





#79
2-Chlorotoluene
Concen: 9.488 ug/l
RT: 12.682 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 91 Resp: 7907

Ion	Ratio	Lower	Upper
91	100		
126	34.9	17.4	52.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
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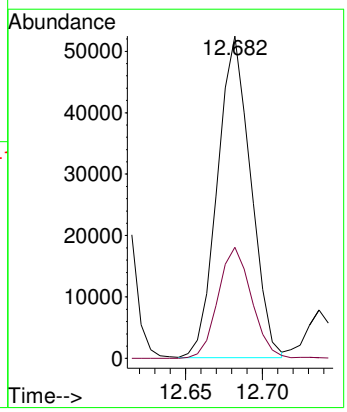
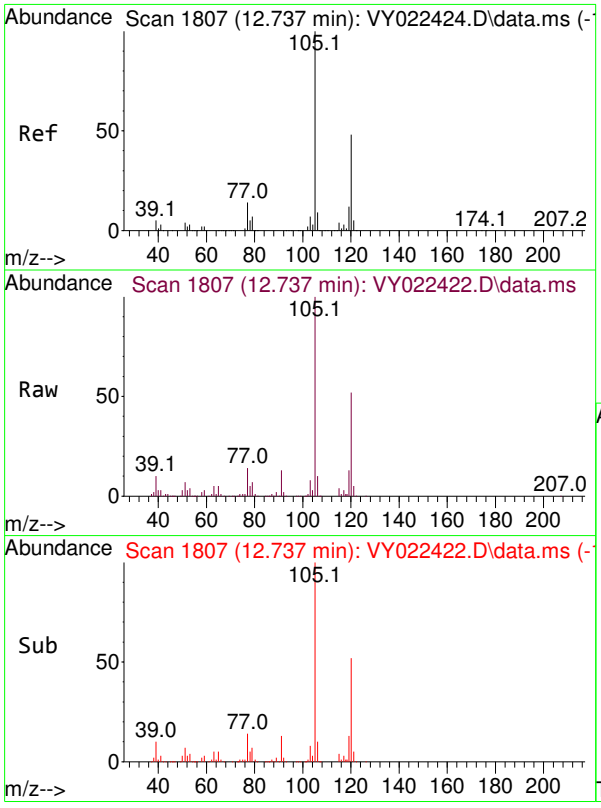
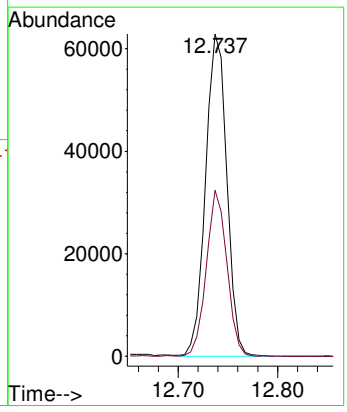


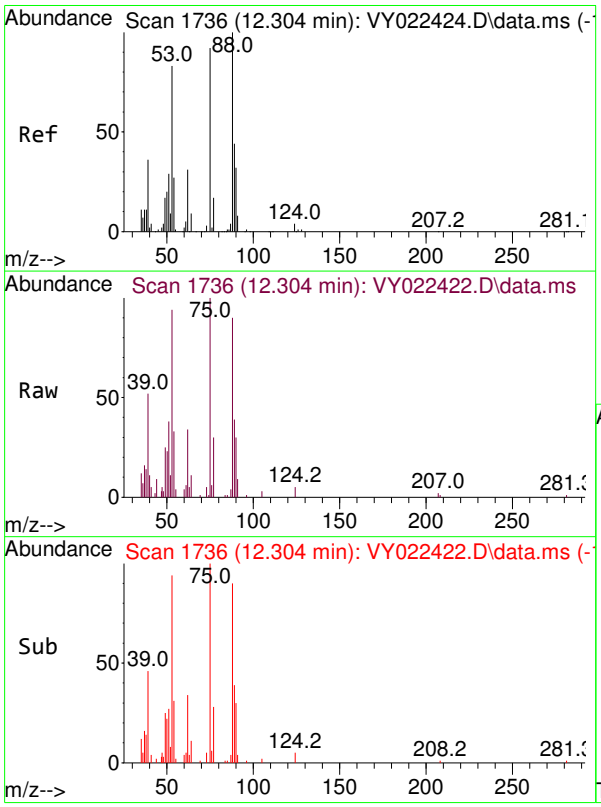


#80
1,3,5-Trimethylbenzene
Concen: 9.334 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion:105 Resp: 93557

Ion	Ratio	Lower	Upper
105	100		
120	49.8	24.3	73.0





#81
trans-1,4-Dichloro-2-butene
Concen: 9.601 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 75 Resp: 693

Ion	Ratio	Lower	Upper
75	100		
53	93.5	75.1	112.7
89	41.5	37.4	56.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
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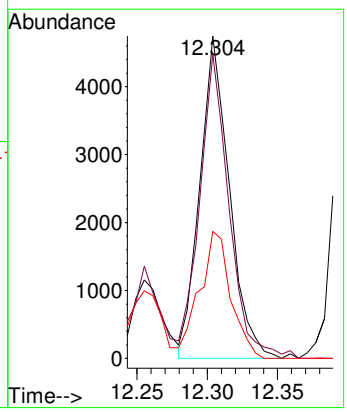
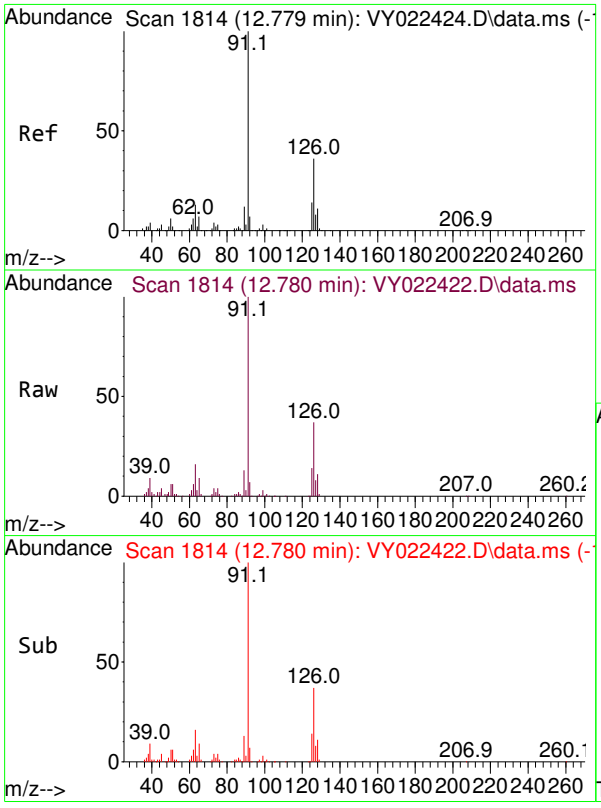
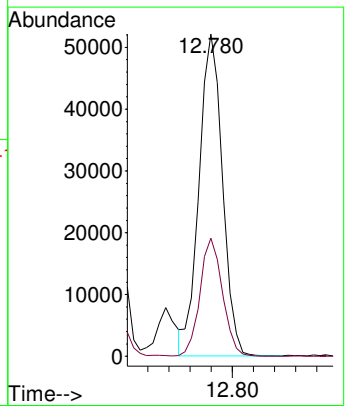


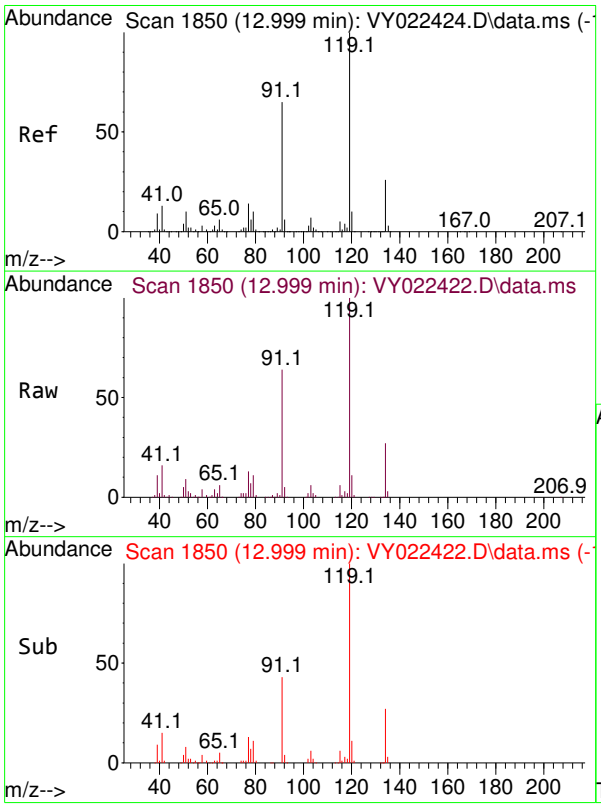


#82
4-Chlorotoluene
Concen: 9.356 ug/l
RT: 12.780 min Scan# 1814
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 91 Resp: 80299

Ion	Ratio	Lower	Upper
91	100		
126	35.4	17.2	51.6





#83
tert-Butylbenzene
Concen: 9.216 ug/l
RT: 12.999 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion:119 Resp: 8345

Ion	Ratio	Lower	Upper
119	100		
91	62.4	31.8	95.3
134	26.0	13.0	38.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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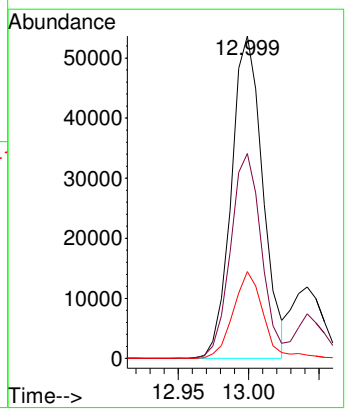
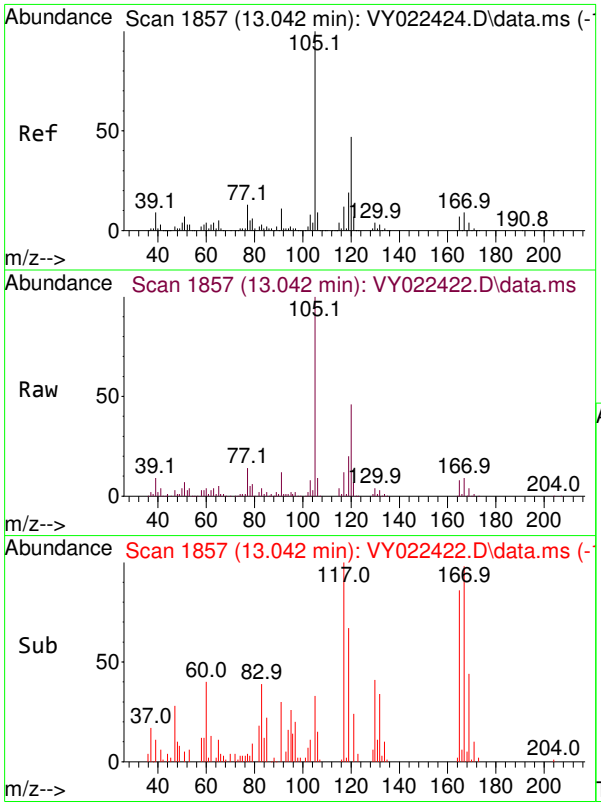
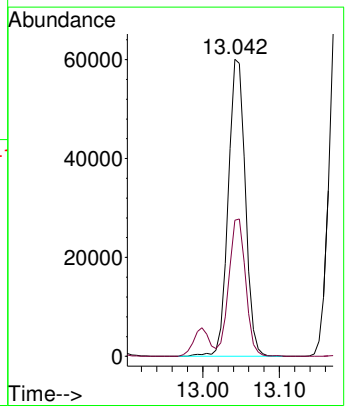


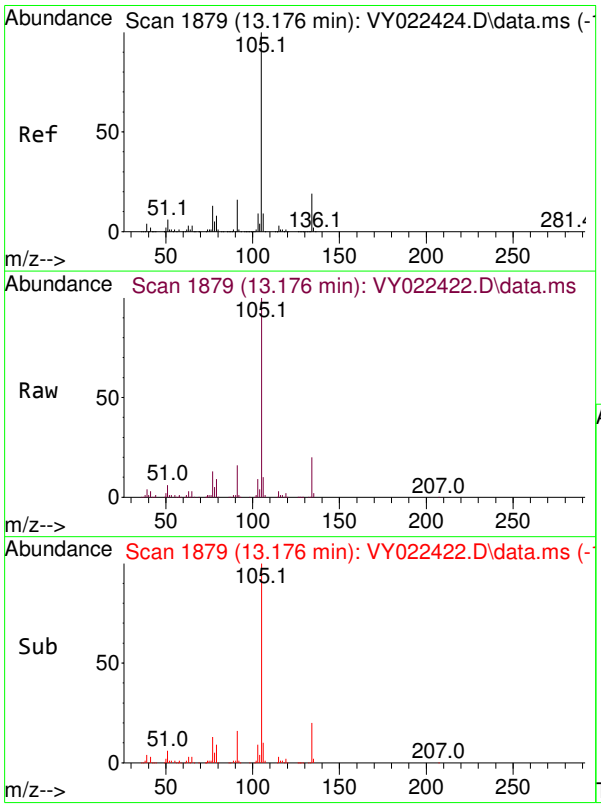


#84
1,2,4-Trimethylbenzene
Concen: 9.230 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion:105 Resp: 93094

Ion	Ratio	Lower	Upper
105	100		
120	45.3	22.9	68.5





#85
sec-Butylbenzene
Concen: 9.191 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion:105 Resp: 12343

Ion	Ratio	Lower	Upper
105	100		
134	19.9	9.7	29.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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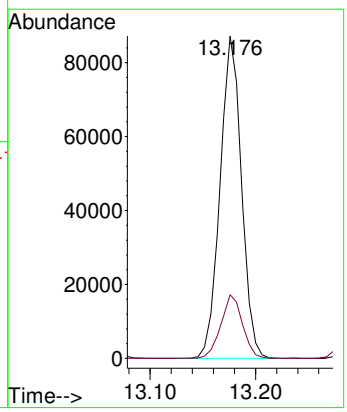
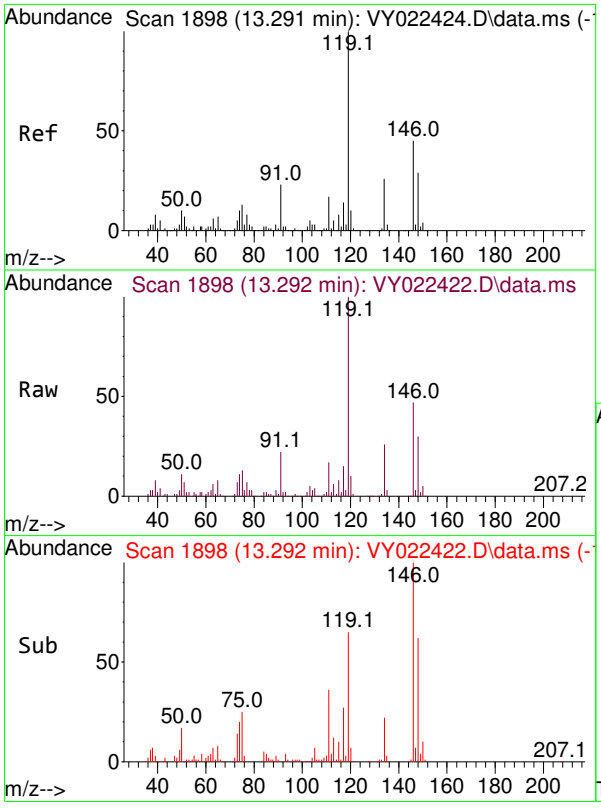
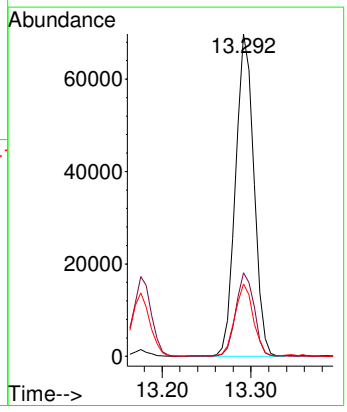


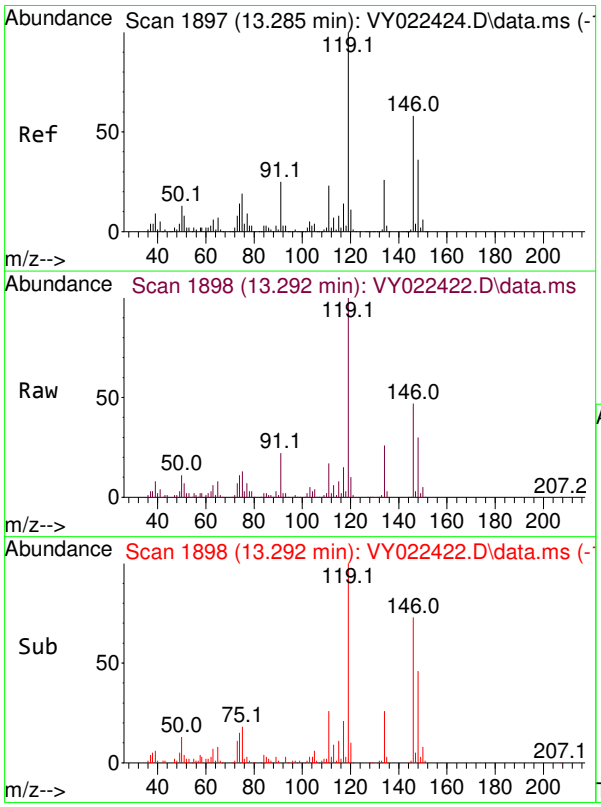


#86
p-Isopropyltoluene
Concen: 8.932 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion:119 Resp: 100168

Ion	Ratio	Lower	Upper
119	100		
134	25.9	13.0	39.0
91	22.3	11.6	34.8





#87
1,3-Dichlorobenzene
Concen: 9.144 ug/l
RT: 13.292 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion:146 Resp: 5079

Ion	Ratio	Lower	Upper
146	100		
111	38.6	19.6	58.8
148	63.4	31.7	95.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

Reviewed By :Amit Patel 05/28/2025
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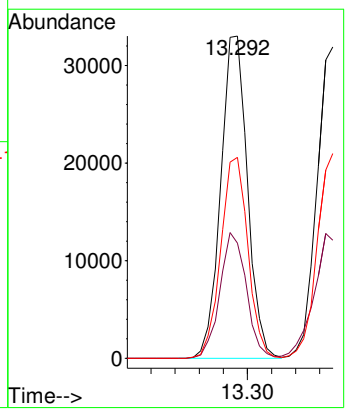
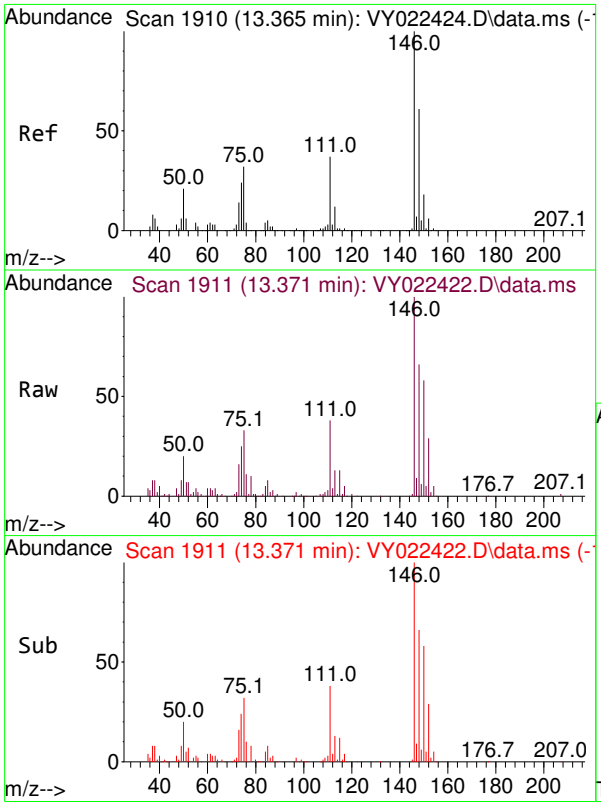
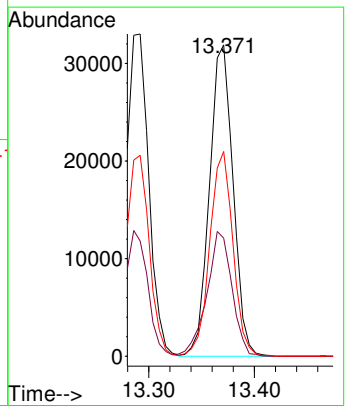


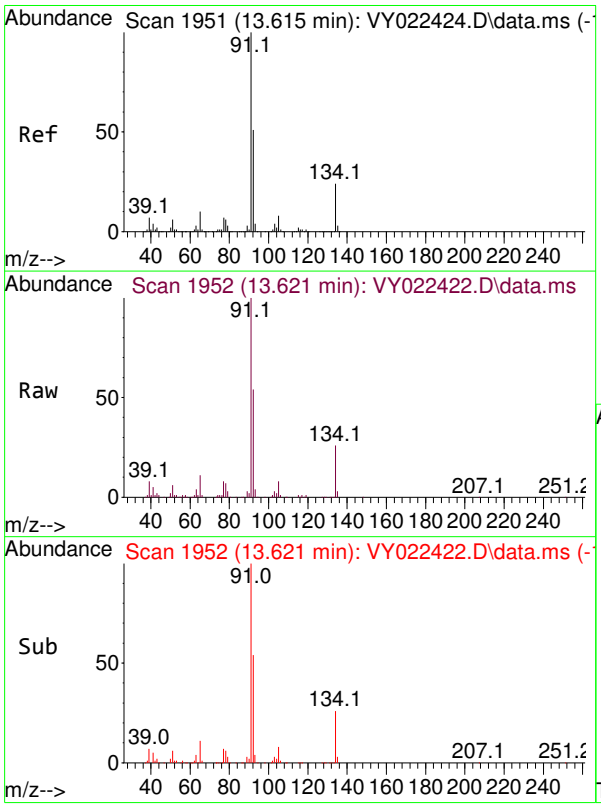


#88
1,4-Dichlorobenzene
Concen: 9.372 ug/l
RT: 13.371 min Scan# 1911
Delta R.T. 0.006 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion:146 Resp: 49773

Ion	Ratio	Lower	Upper
146	100		
111	42.9	18.7	56.1
148	64.9	31.4	94.3





#89
n-Butylbenzene
Concen: 8.847 ug/l
RT: 13.621 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 91 Resp: 9302

Ion	Ratio	Lower	Upper
91	100		
92	53.9	25.9	77.6
134	25.0	12.4	37.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
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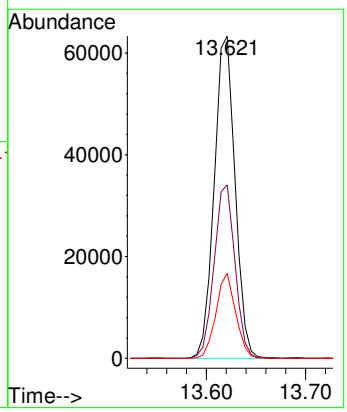
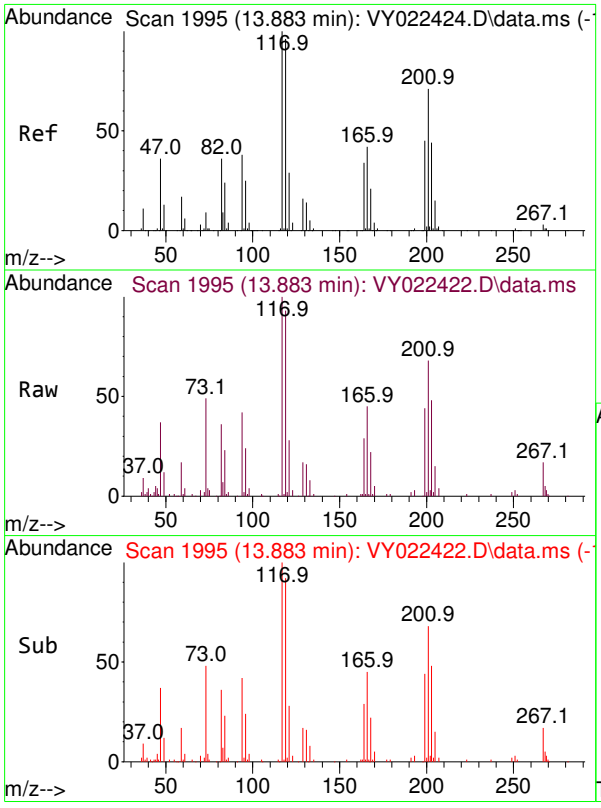
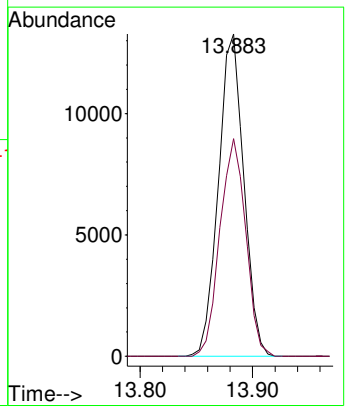


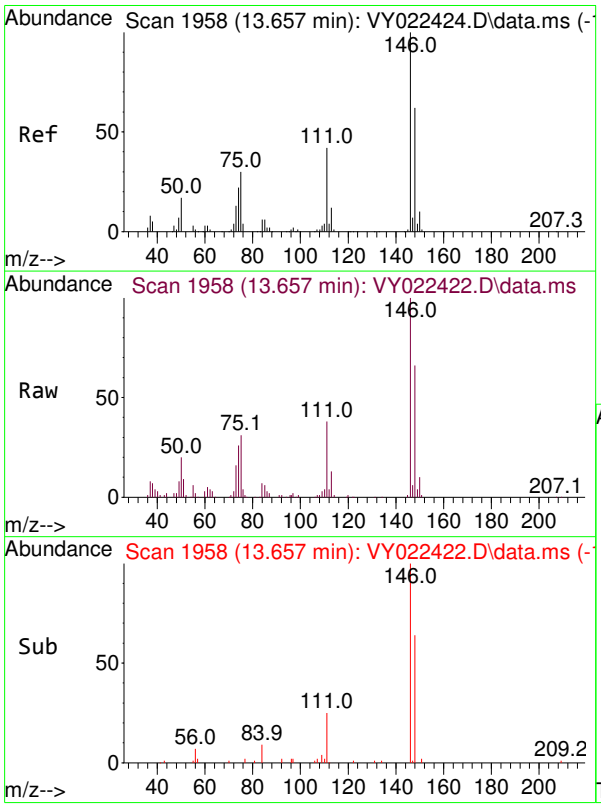


#90
Hexachloroethane
Concen: 9.310 ug/l
RT: 13.883 min Scan# 1995
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion:117 Resp: 20778

Ion	Ratio	Lower	Upper
117	100		
201	68.7	35.0	105.0





#91
1,2-Dichlorobenzene
Concen: 9.358 ug/l
RT: 13.657 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion:146 Resp: 4341

Ion	Ratio	Lower	Upper
146	100		
111	40.8	20.5	61.6
148	64.1	31.9	95.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
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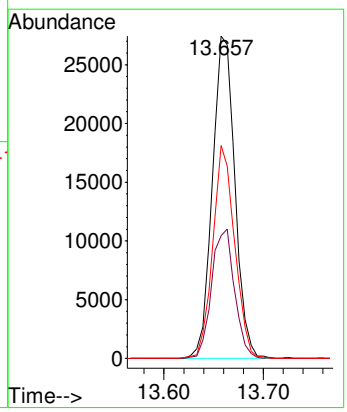
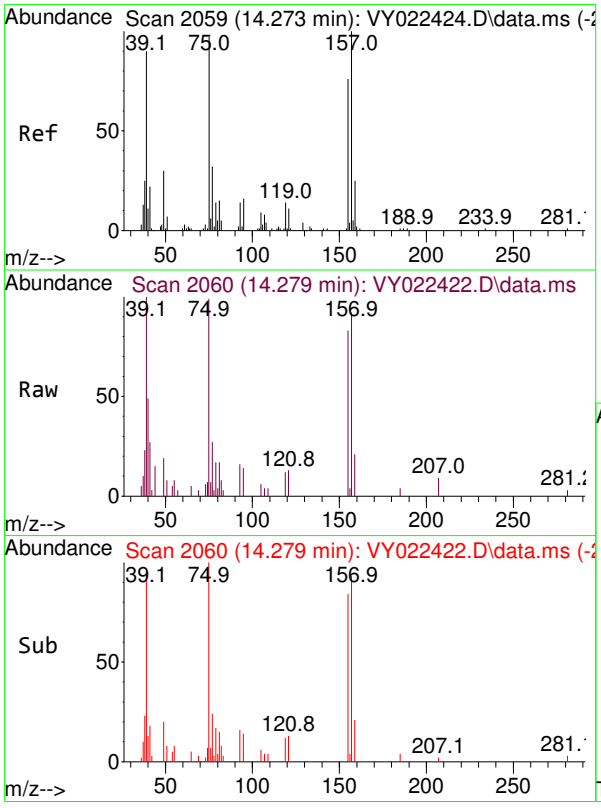
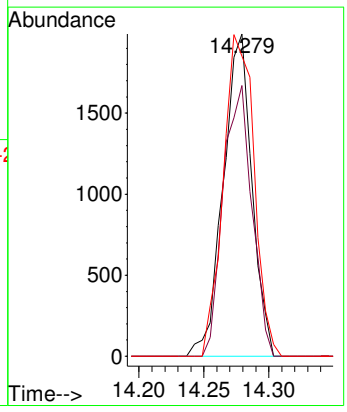


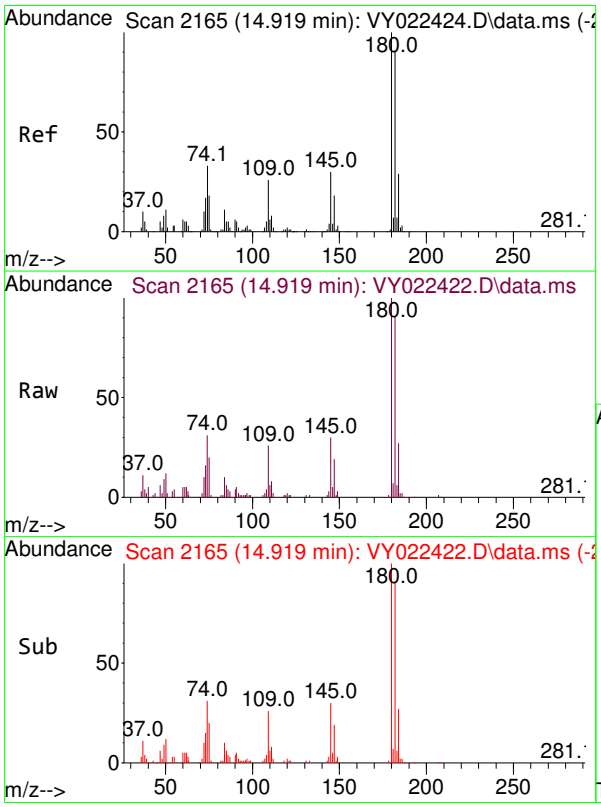


#92
1,2-Dibromo-3-Chloropropane
Concen: 9.740 ug/l
RT: 14.279 min Scan# 2060
Delta R.T. 0.006 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 75 Resp: 3042

Ion	Ratio	Lower	Upper
75	100		
155	84.2	42.3	126.8
157	107.4	54.4	163.3

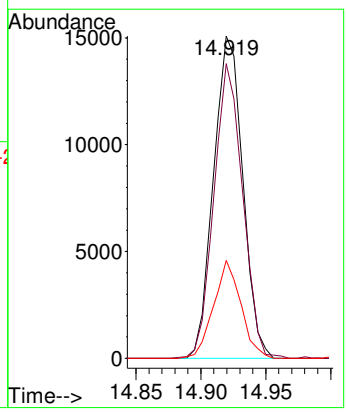




#93
1,2,4-Trichlorobenzene
Concen: 9.172 ug/l
RT: 14.919 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion:180 Resp: 2359

Ion	Ratio	Lower	Upper
180	100		
182	89.9	46.2	138.6
145	28.4	14.2	42.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

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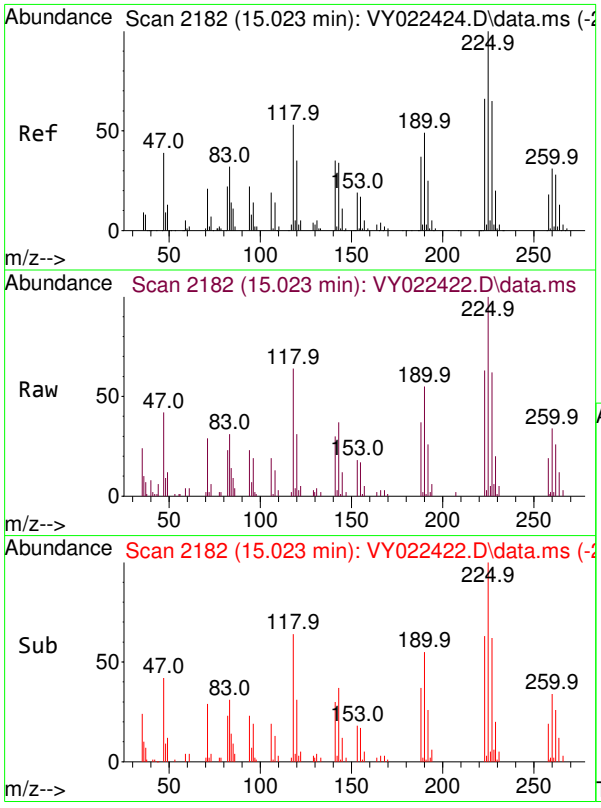
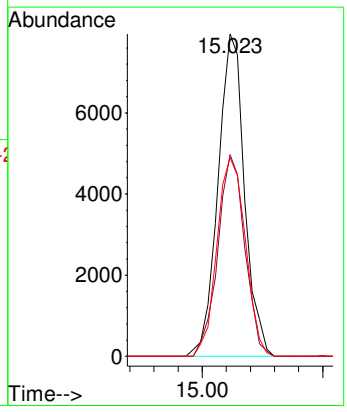
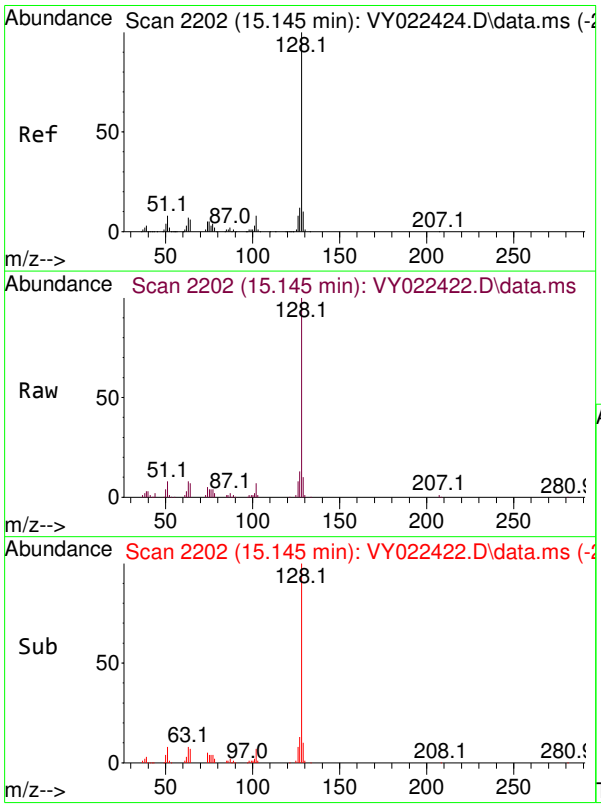


#94
Hexachlorobutadiene
Concen: 8.956 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion:225 Resp: 12088

Ion	Ratio	Lower	Upper
225	100		
223	63.8	32.6	97.7
227	66.2	33.0	99.0





#95
Naphthalene
Concen: 8.878 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion:128 Resp: 4221

Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.2	15.4
129	11.3	8.5	12.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
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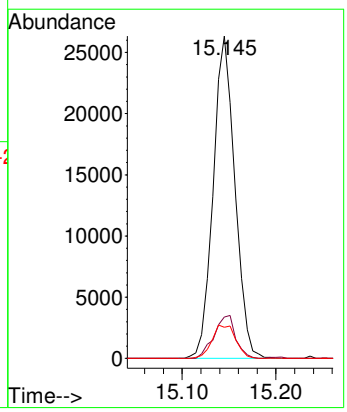
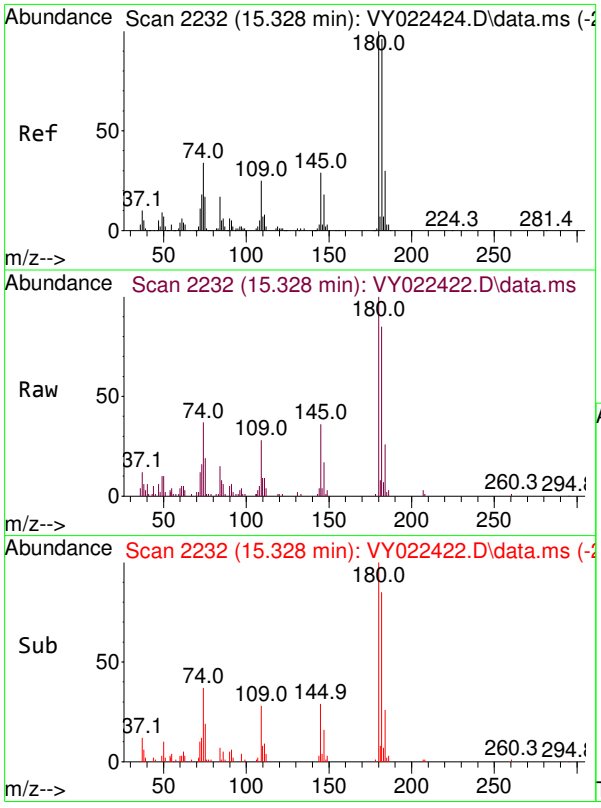
Supervised By :Mahesh Dadoda 05/28/2025

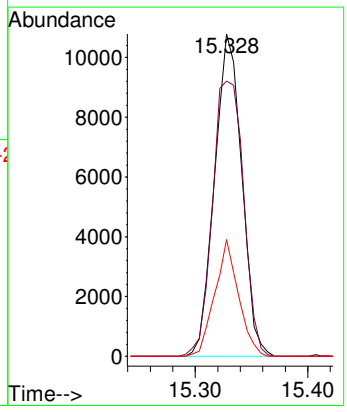




#96
1,2,3-Trichlorobenzene
Concen: 8.567 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion:180 Resp: 18071

Ion	Ratio	Lower	Upper
180	100		
182	97.3	48.1	144.3
145	31.6	14.9	44.5



ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022423.D
Acq On : 27 May 2025 09:36
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

Quant Time: May 28 09:49:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 09:30:53 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	7.713	168	252702	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	8.616	114	427651	50.000	ug/l		0.00
63) Chlorobenzene-d5	11.420	117	358898	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	162048	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	8.067	65	52229	19.622	ug/l		0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	39.240%#			
35) Dibromofluoromethane	7.640	113	48414	19.331	ug/l		0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	38.660%#			
50) Toluene-d8	10.109	98	199816	19.571	ug/l		0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	39.140%#			
62) 4-Bromofluorobenzene	12.408	95	59022	19.112	ug/l		0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	38.220%			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.867	85	53184	22.059	ug/l		100
3) Chloromethane	2.068	50	131430	22.162	ug/l		96
4) Vinyl Chloride	2.208	62	153844	21.354	ug/l		97
5) Bromomethane	2.592	94	141241	21.573	ug/l		99
6) Chloroethane	2.739	64	95915	20.373	ug/l		98
7) Trichlorofluoromethane	3.056	101	123550	20.326	ug/l		99
8) Diethyl Ether	3.458	74	27436	19.575	ug/l		98
9) 1,1,2-Trichlorotrifluo...	3.818	101	54677	20.503	ug/l		100
10) Methyl Iodide	4.013	142	61032	20.286	ug/l		100
11) Tert butyl alcohol	4.885	59	18099	96.464	ug/l	#	86
12) 1,1-Dichloroethene	3.793	96	53871	20.347	ug/l		99
13) Acrolein	3.659	56	28252	100.498	ug/l		98
14) Allyl chloride	4.391	41	80449	20.200	ug/l		97
15) Acrylonitrile	5.067	53	55206	97.719	ug/l		100
16) Acetone	3.879	43	40769	93.210	ug/l		92
17) Carbon Disulfide	4.110	76	172558	20.423	ug/l		100
18) Methyl Acetate	4.397	43	29942	18.275	ug/l		99
19) Methyl tert-butyl Ether	5.128	73	137123	19.508	ug/l		97
20) Methylene Chloride	4.622	84	58412	18.912	ug/l		99
21) trans-1,2-Dichloroethene	5.122	96	56105	19.411	ug/l		99
22) Diisopropyl ether	6.025	45	175073	19.918	ug/l		99
23) Vinyl Acetate	5.964	43	504103	99.882	ug/l		99
24) 1,1-Dichloroethane	5.927	63	104623	20.143	ug/l		100
25) 2-Butanone	6.902	43	68733	94.358	ug/l		99
26) 2,2-Dichloropropane	6.890	77	94730	20.142	ug/l		97
27) cis-1,2-Dichloroethene	6.896	96	65719	19.640	ug/l		99
28) Bromochloromethane	7.250	49	43955	20.266	ug/l		99
29) Tetrahydrofuran	7.268	42	46611	95.946	ug/l		99
30) Chloroform	7.427	83	103440	20.211	ug/l		96
31) Cyclohexane	7.707	56	100786	19.685	ug/l		93
32) 1,1,1-Trichloroethane	7.628	97	92540	19.923	ug/l		99
36) 1,1-Dichloropropene	7.841	75	77871	19.594	ug/l		99
37) Ethyl Acetate	6.994	43	32871	19.462	ug/l		98
38) Carbon Tetrachloride	7.823	117	80594	19.468	ug/l		94
39) Methylcyclohexane	9.109	83	103224	19.540	ug/l		95
40) Benzene	8.085	78	232606	19.670	ug/l		97

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022423.D
Acq On : 27 May 2025 09:36
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 09:49:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 09:30:53 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.219	41	19136m	8.609	ug/l		
42) 1,2-Dichloroethane	8.158	62	61523	19.699	ug/l		99
43) Isopropyl Acetate	8.201	43	71905	19.483	ug/l	#	86
44) Trichloroethene	8.872	130	58860	20.135	ug/l		97
45) 1,2-Dichloropropane	9.146	63	54451	19.598	ug/l		99
46) Dibromomethane	9.237	93	29679	19.122	ug/l		98
47) Bromodichloromethane	9.426	83	76833	19.250	ug/l		97
48) Methyl methacrylate	9.225	41	32925	19.218	ug/l		99
49) 1,4-Dioxane	9.231	88	6923	403.829	ug/l		91
51) 4-Methyl-2-Pentanone	9.999	43	169056	92.837	ug/l		99
52) Toluene	10.176	92	143949	19.489	ug/l		100
53) t-1,3-Dichloropropene	10.396	75	71231	19.160	ug/l		100
54) cis-1,3-Dichloropropene	9.859	75	86263	19.747	ug/l		98
55) 1,1,2-Trichloroethane	10.579	97	38684	19.713	ug/l		94
56) Ethyl methacrylate	10.445	69	53900	19.140	ug/l		98
57) 1,3-Dichloropropane	10.719	76	68793	19.893	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.713	63	130961	93.311	ug/l		98
59) 2-Hexanone	10.762	43	109954	92.136	ug/l		98
60) Dibromochloromethane	10.914	129	48590	19.384	ug/l		99
61) 1,2-Dibromoethane	11.018	107	35441	19.746	ug/l		100
64) Tetrachloroethene	10.652	164	62224	20.357	ug/l		99
65) Chlorobenzene	11.444	112	150827	19.709	ug/l		97
66) 1,1,1,2-Tetrachloroethane	11.518	131	50226	19.371	ug/l		96
67) Ethyl Benzene	11.524	91	275656	19.399	ug/l		98
68) m/p-Xylenes	11.633	106	207724	38.557	ug/l		99
69) o-Xylene	11.956	106	96581	19.075	ug/l		100
70) Styrene	11.969	104	160384	19.023	ug/l		99
71) Bromoform	12.133	173	26368	19.415	ug/l	#	100
73) Isopropylbenzene	12.255	105	255754	20.053	ug/l		99
74) N-amyl acetate	12.072	43	61037	19.558	ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.505	83	39127	19.472	ug/l		99
76) 1,2,3-Trichloropropane	12.560	75	32290m	12.094	ug/l		
77) Bromobenzene	12.536	156	55641	20.273	ug/l		97
78) n-propylbenzene	12.597	91	306474	20.024	ug/l		100
79) 2-Chlorotoluene	12.682	91	163649	19.752	ug/l		99
80) 1,3,5-Trimethylbenzene	12.737	105	198748	19.944	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.304	75	14257	19.863	ug/l		98
82) 4-Chlorotoluene	12.779	91	171858	20.140	ug/l		99
83) tert-Butylbenzene	12.999	119	179841	19.975	ug/l		99
84) 1,2,4-Trimethylbenzene	13.042	105	196951	19.640	ug/l		100
85) sec-Butylbenzene	13.176	105	263748	19.753	ug/l		99
86) p-Isopropyltoluene	13.292	119	216227	19.393	ug/l		100
87) 1,3-Dichlorobenzene	13.292	146	108479	19.644	ug/l		99
88) 1,4-Dichlorobenzene	13.371	146	104788	19.845	ug/l		98
89) n-Butylbenzene	13.615	91	206658	19.768	ug/l		99
90) Hexachloroethane	13.883	117	44059	19.857	ug/l		98
91) 1,2-Dichlorobenzene	13.657	146	92726	20.103	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.279	75	6215	20.016	ug/l		94
93) 1,2,4-Trichlorobenzene	14.919	180	49954	19.535	ug/l		98
94) Hexachlorobutadiene	15.023	225	25718	19.164	ug/l		97
95) Naphthalene	15.145	128	89204	18.870	ug/l		98
96) 1,2,3-Trichlorobenzene	15.328	180	41774	19.919	ug/l		96

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022423.D
Acq On : 27 May 2025 09:36
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

Quant Time: May 28 09:49:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 09:30:53 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

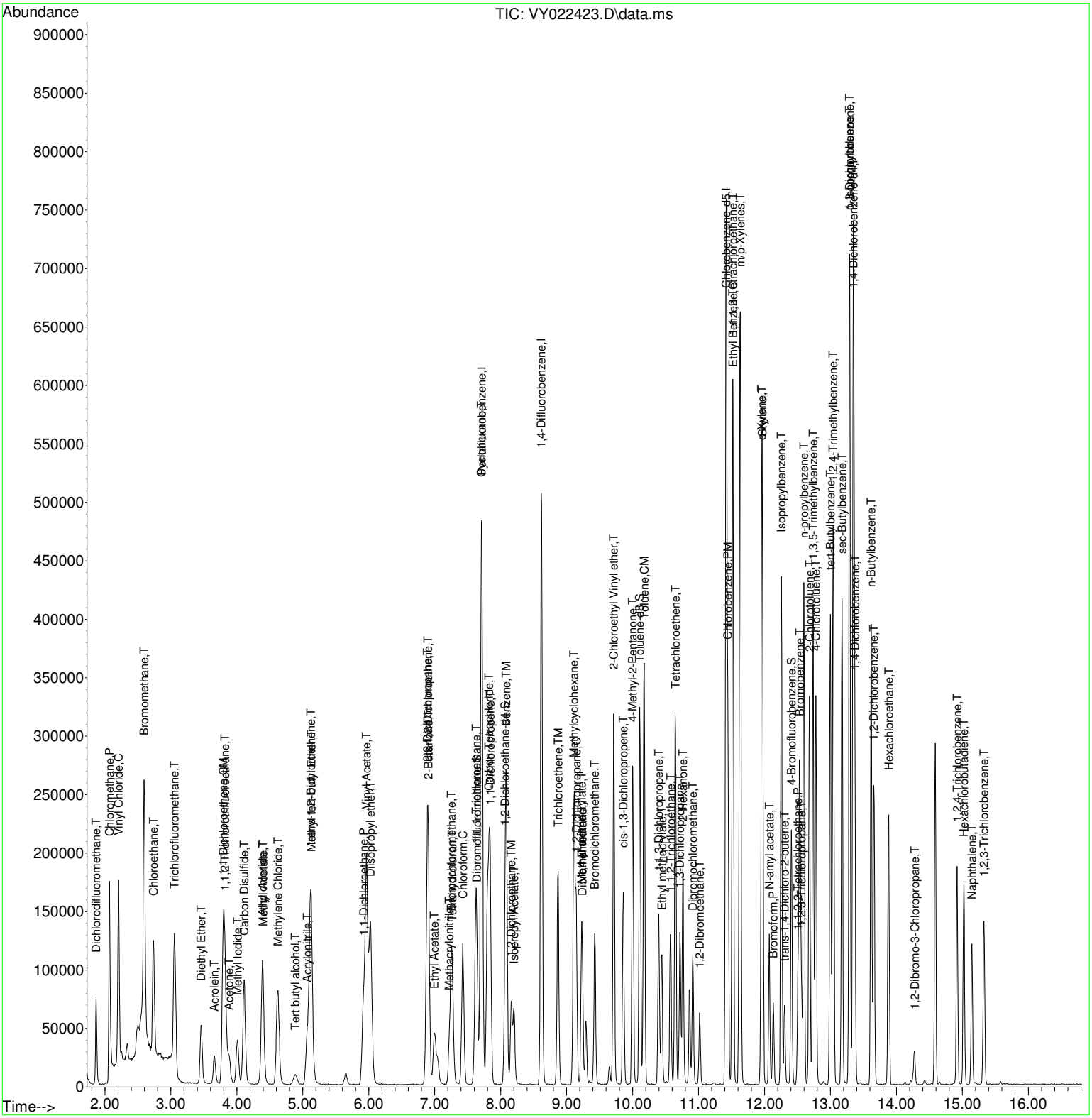
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022423.D
Acq On : 27 May 2025 09:36
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

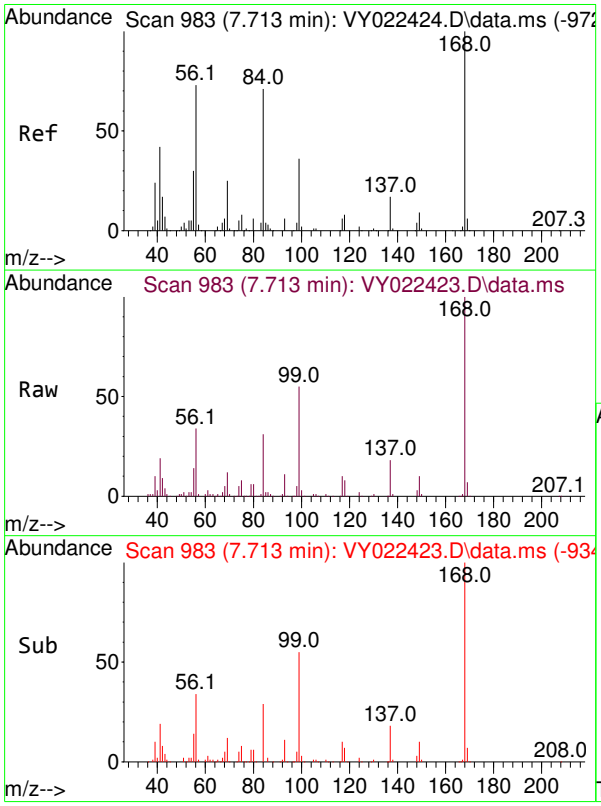
Quant Time: May 28 09:49:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 09:30:53 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

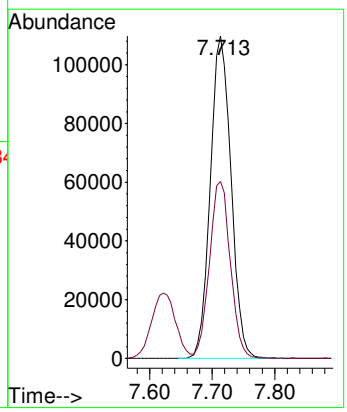
Tgt Ion:168 Resp: 25270

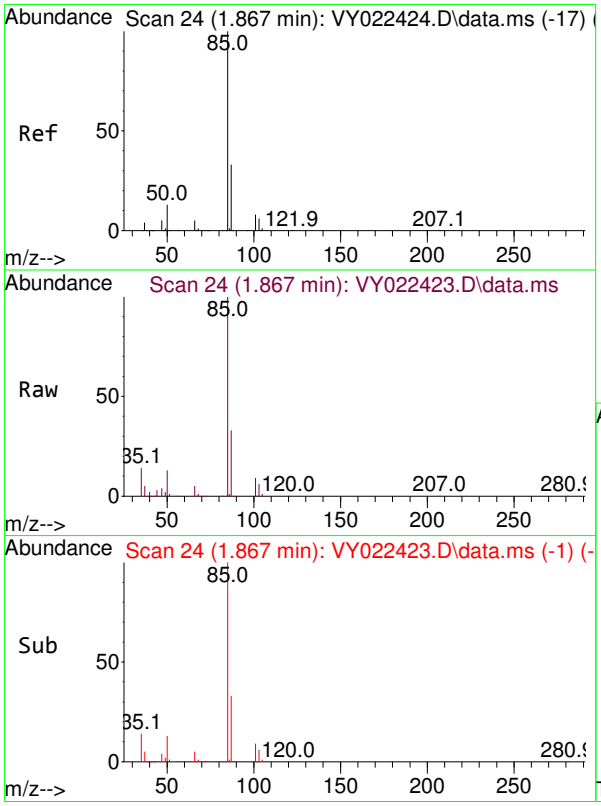
Ion	Ratio	Lower	Upper
168	100		
99	54.8	44.7	67.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

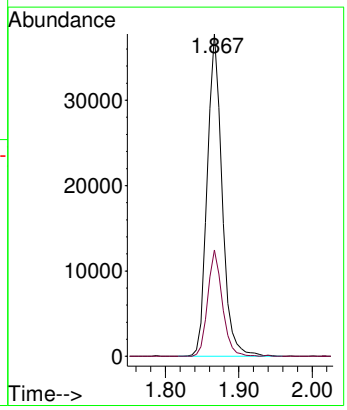


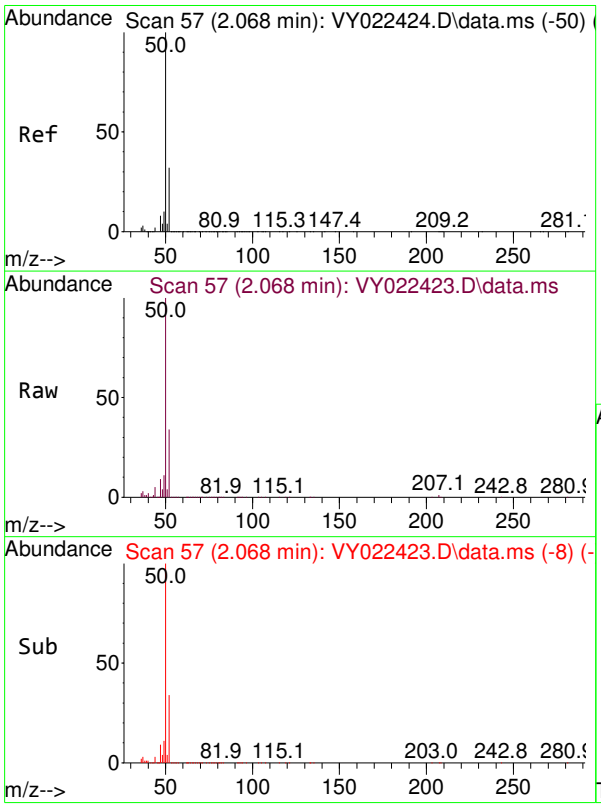


#2
Dichlorodifluoromethane
Concen: 22.059 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 85 Resp: 53184

Ion	Ratio	Lower	Upper
85	100		
87	33.0	16.4	49.2





#3
Chloromethane
Concen: 22.162 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

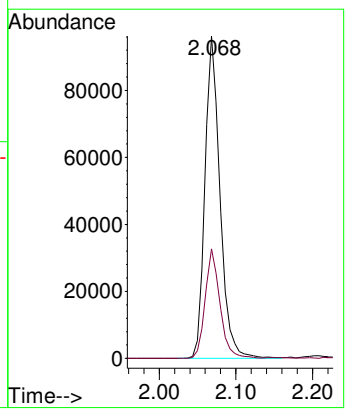
Tgt Ion: 50 Resp: 13143

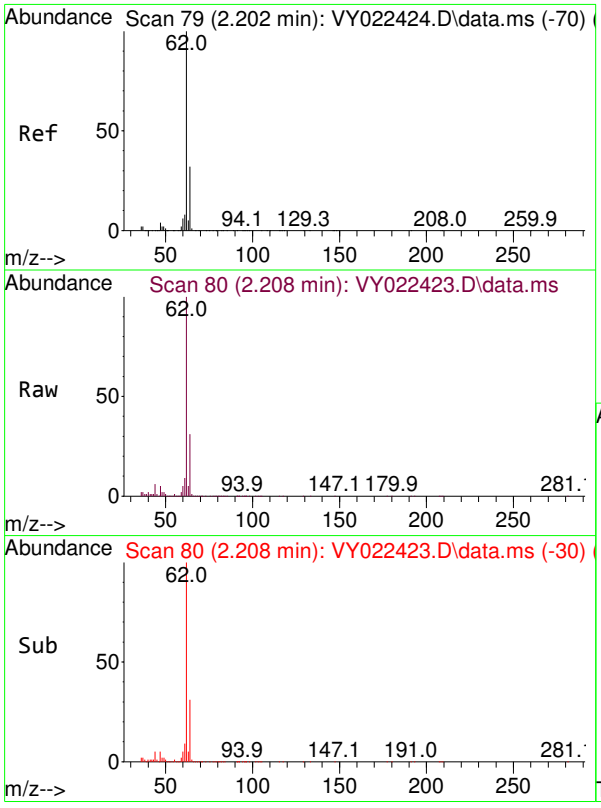
Ion	Ratio	Lower	Upper
50	100		
52	34.0	25.5	38.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

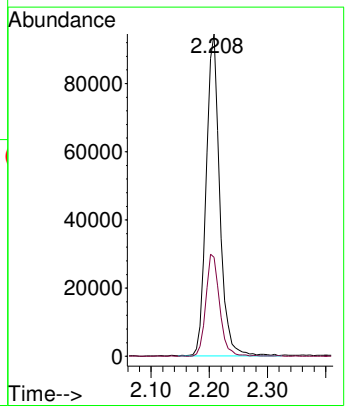


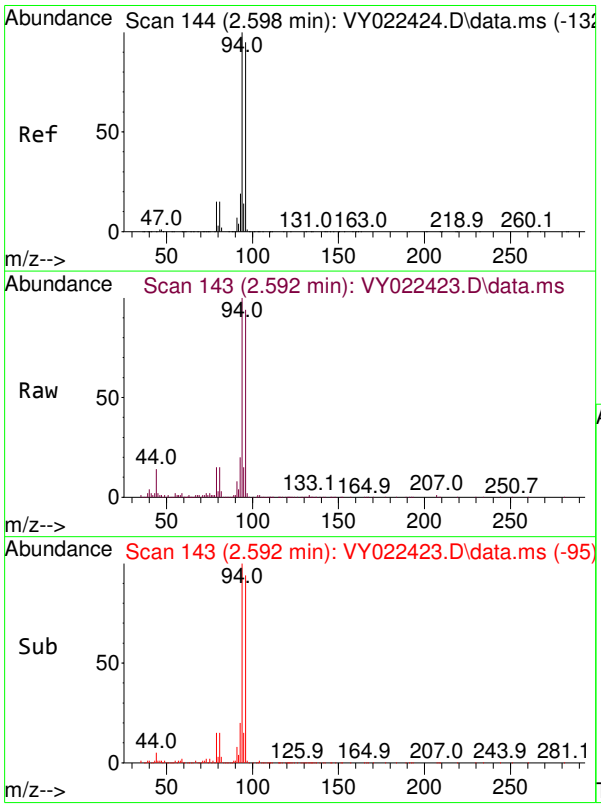


#4
Vinyl Chloride
Concen: 21.354 ug/l
RT: 2.208 min Scan# 80
Delta R.T. 0.006 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 62 Resp: 153844

Ion	Ratio	Lower	Upper
62	100		
64	30.7	26.0	39.0





#5
Bromomethane
Concen: 21.573 ug/l
RT: 2.592 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

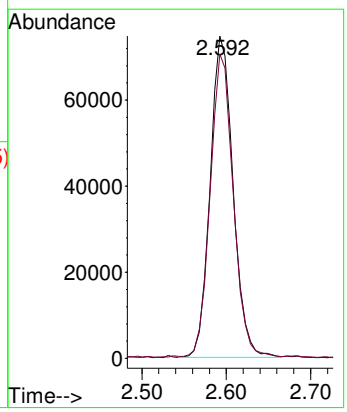
Tgt Ion: 94 Resp: 14124

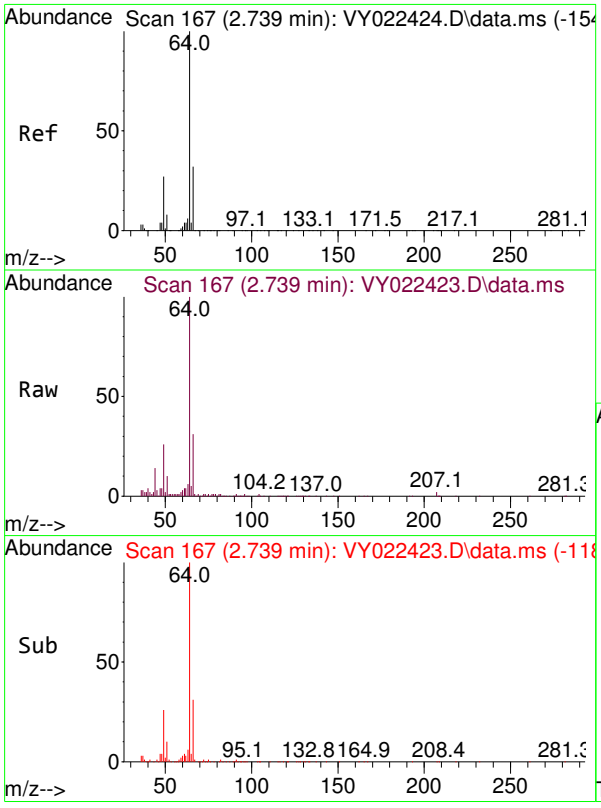
Ion	Ratio	Lower	Upper
94	100		
96	94.1	76.0	114.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

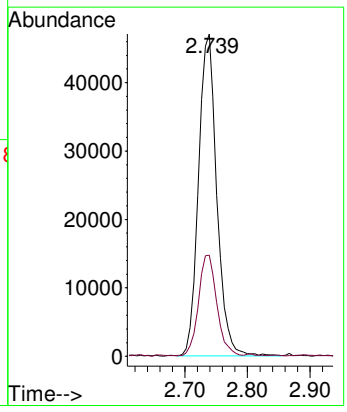


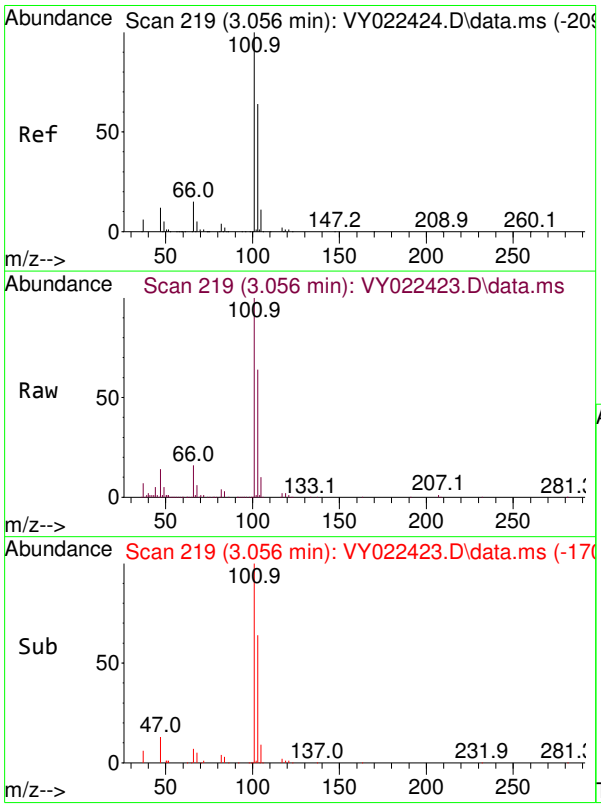


#6
Chloroethane
Concen: 20.373 ug/l
RT: 2.739 min Scan# 167
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 64 Resp: 95915

Ion	Ratio	Lower	Upper
64	100		
66	31.2	25.9	38.9





#7
Trichlorofluoromethane
Concen: 20.326 ug/l
RT: 3.056 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion:101 Resp: 12355

Ion	Ratio	Lower	Upper
101	100		
103	64.4	50.9	76.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :Amit Patel 05/28/2025
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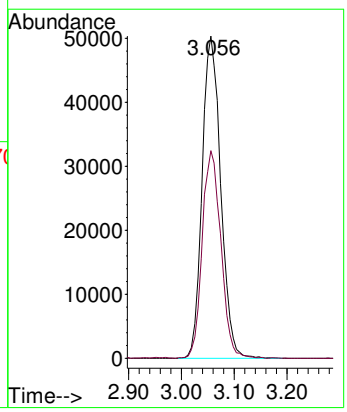
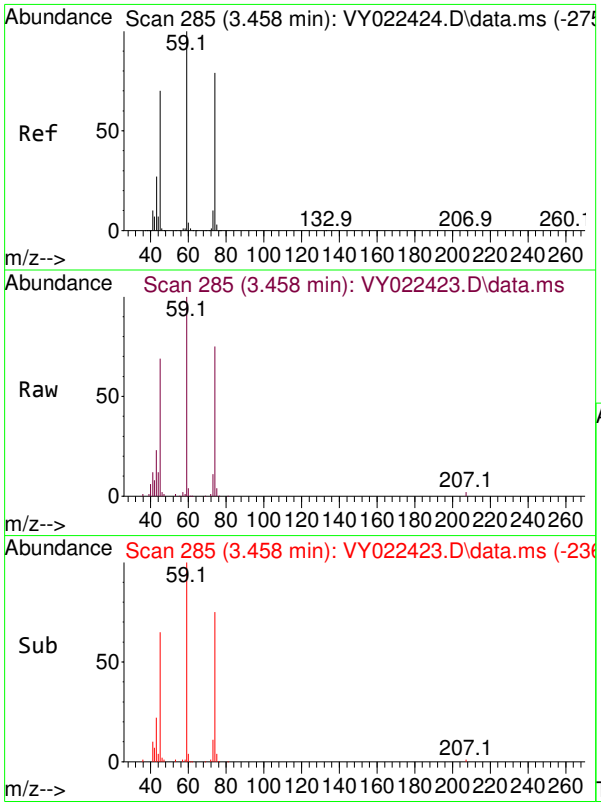
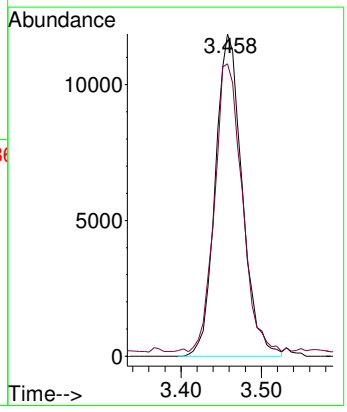


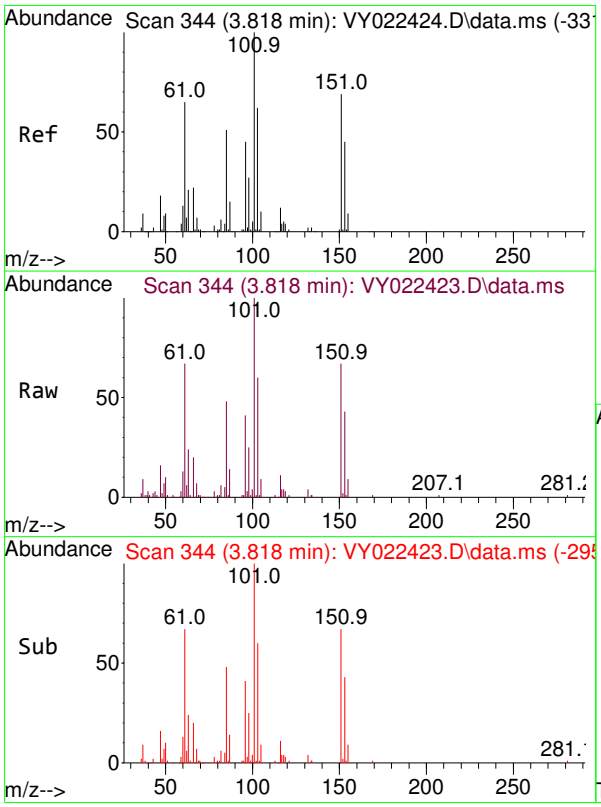


#8
Diethyl Ether
Concen: 19.575 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 74 Resp: 27436

Ion	Ratio	Lower	Upper
74	100		
45	91.3	44.9	134.5





#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.503 ug/l
RT: 3.818 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

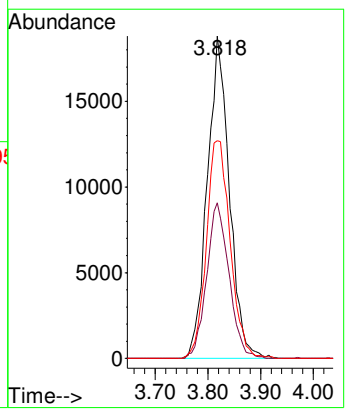
Tgt Ion:101 Resp: 5467

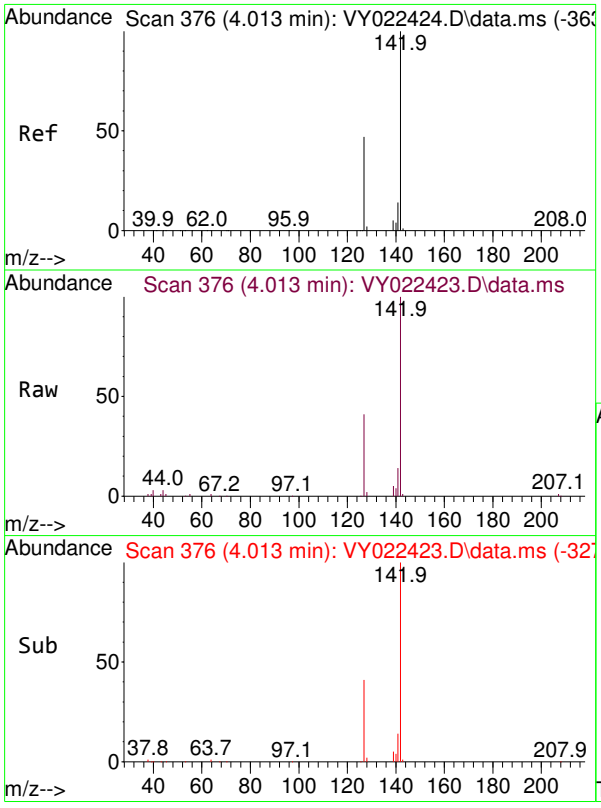
Ion	Ratio	Lower	Upper
101	100		
85	48.9	39.2	58.8
151	73.3	58.8	88.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

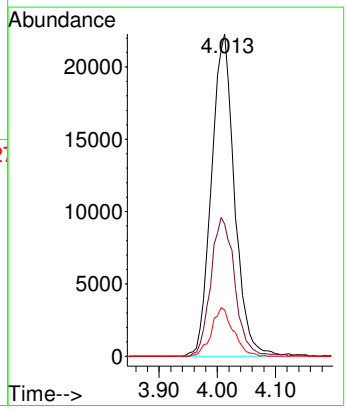


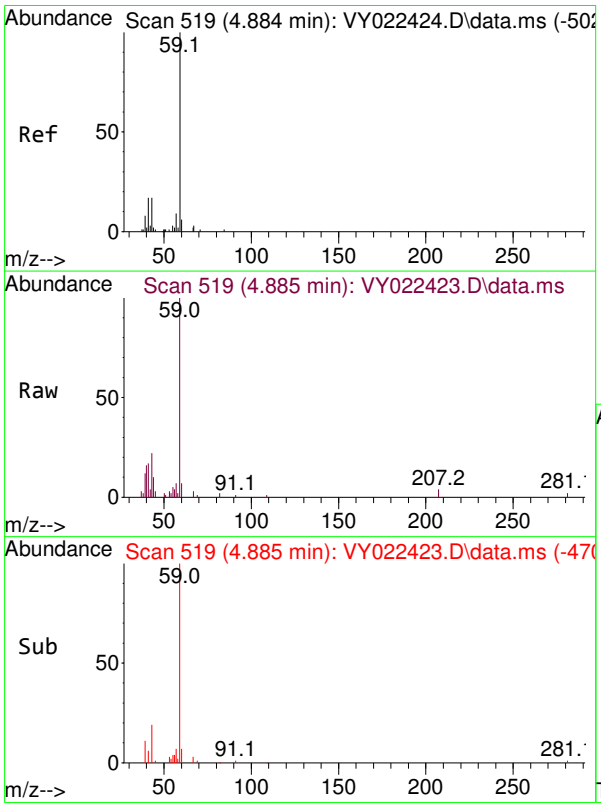


#10
Methyl Iodide
Concen: 20.286 ug/l
RT: 4.013 min Scan# 376
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion:142 Resp: 61032

Ion	Ratio	Lower	Upper
142	100		
127	45.1	36.2	54.4
141	14.5	11.6	17.4





#11
Tert butyl alcohol
Concen: 96.464 ug/l
RT: 4.885 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 59 Resp: 1809

Ion	Ratio	Lower	Upper
59	100		
57	5.9	9.1	13.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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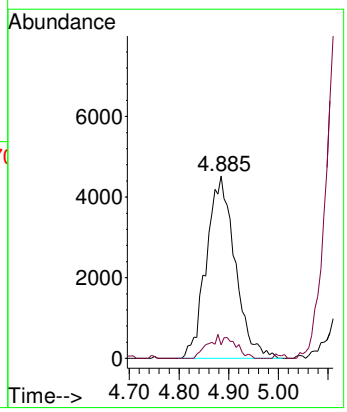
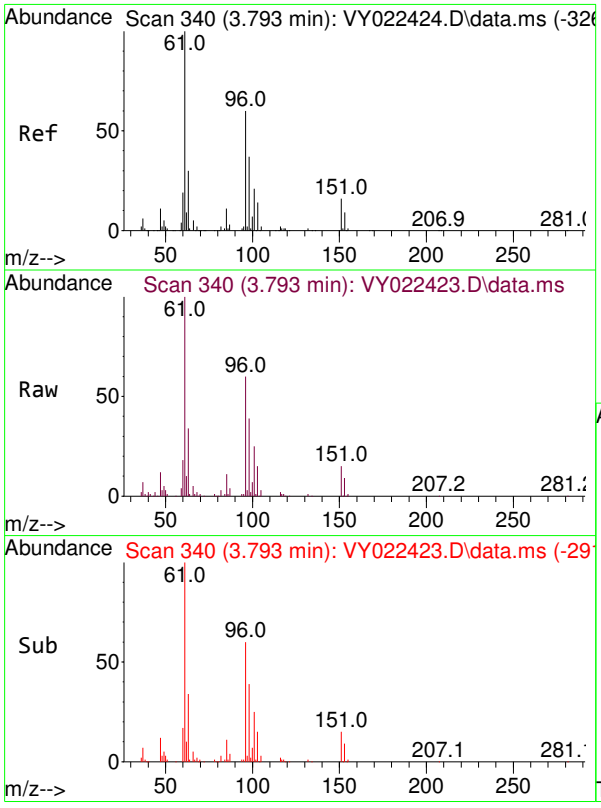
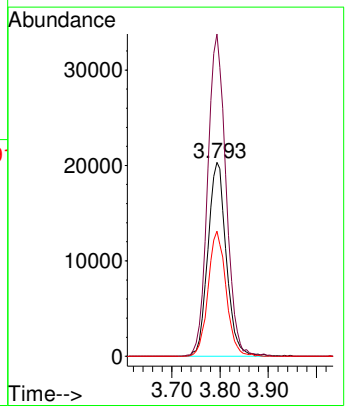


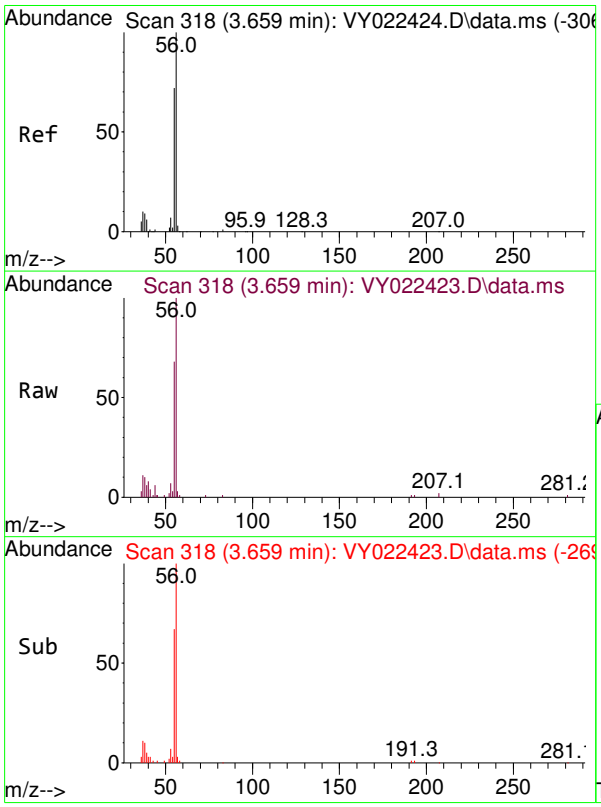


#12
1,1-Dichloroethene
Concen: 20.347 ug/l
RT: 3.793 min Scan# 340
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 96 Resp: 53871

Ion	Ratio	Lower	Upper
96	100		
61	166.2	134.1	201.1
98	64.6	50.2	75.2





#13
Acrolein
Concen: 100.498 ug/l
RT: 3.659 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 56 Resp: 2825

Ion	Ratio	Lower	Upper
56	100		
55	71.9	56.5	84.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
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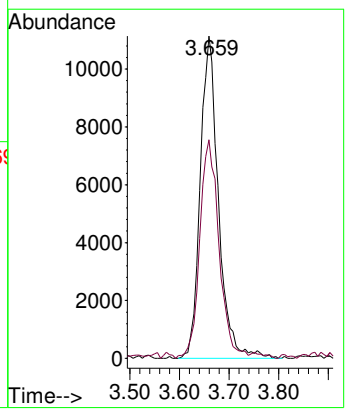
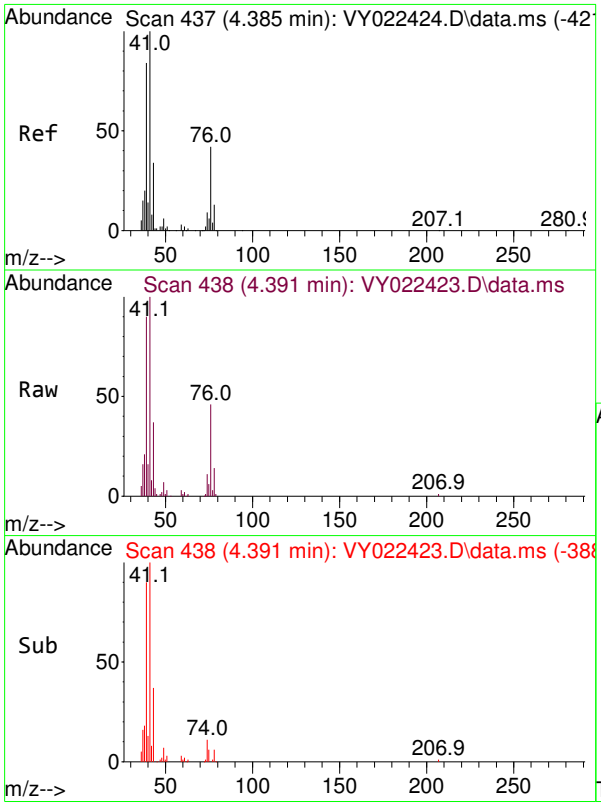
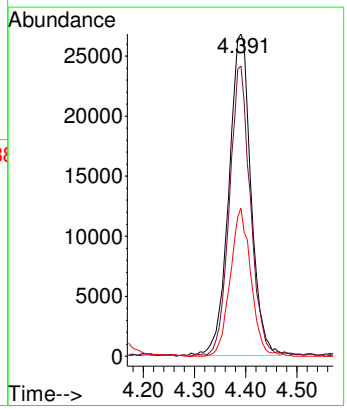


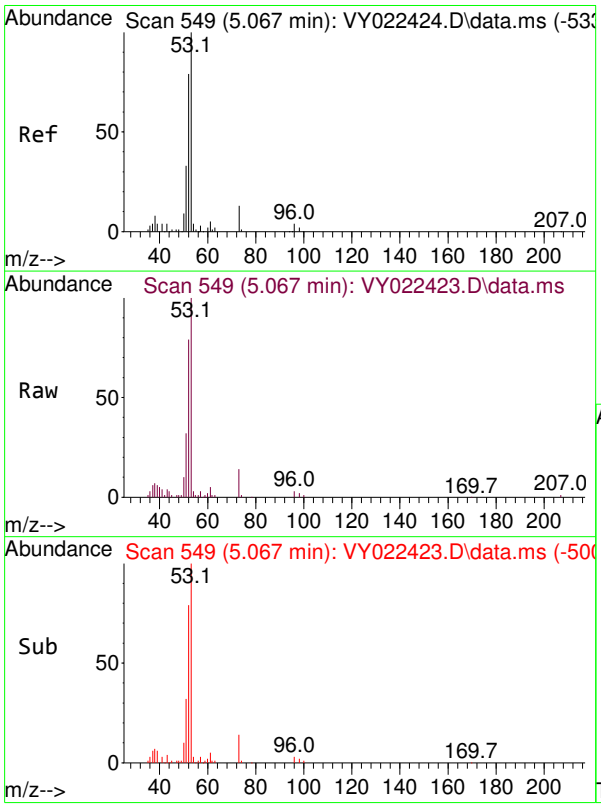


#14
Allyl chloride
Concen: 20.200 ug/l
RT: 4.391 min Scan# 438
Delta R.T. 0.006 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 41 Resp: 80449

Ion	Ratio	Lower	Upper
41	100		
39	86.2	66.6	100.0
76	43.0	33.7	50.5

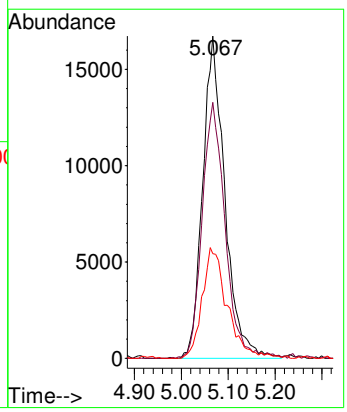




#15
Acrylonitrile
Concen: 97.719 ug/l
RT: 5.067 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 53 Resp: 5520

Ion	Ratio	Lower	Upper
53	100		
52	81.6	65.1	97.7
51	37.9	30.0	45.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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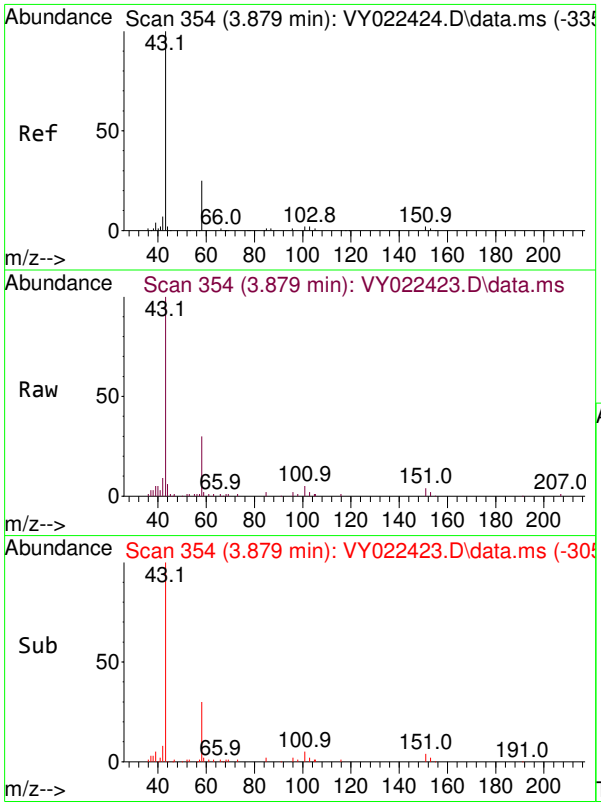
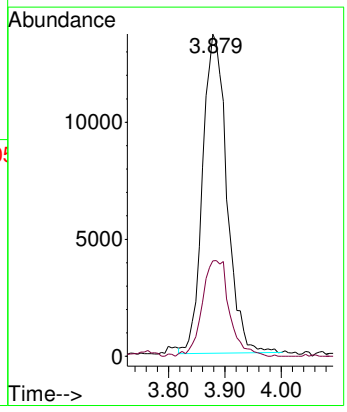
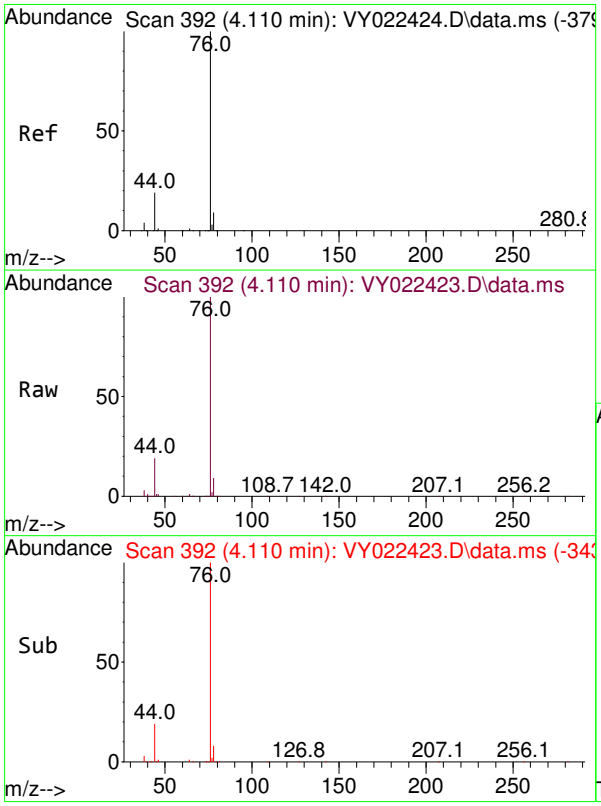


#16
Acetone
Concen: 93.210 ug/l
RT: 3.879 min Scan# 354
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 43 Resp: 40769

Ion	Ratio	Lower	Upper
43	100		
58	29.9	20.6	30.8





#17
Carbon Disulfide
Concen: 20.423 ug/l
RT: 4.110 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 76 Resp: 17255

Ion	Ratio	Lower	Upper
76	100		
78	8.9	7.2	10.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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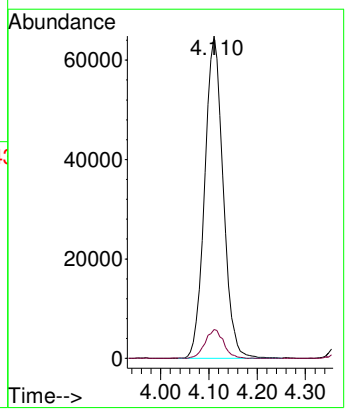
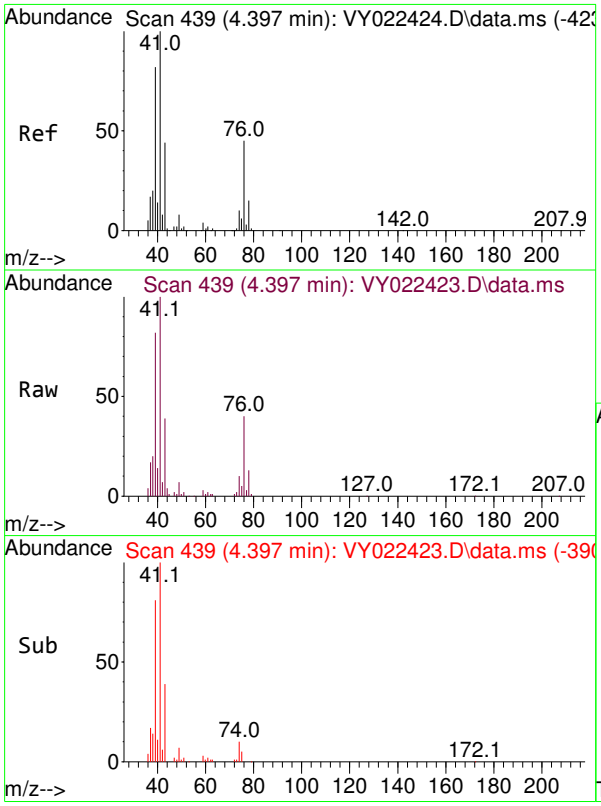
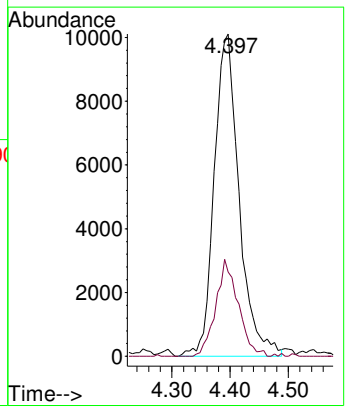


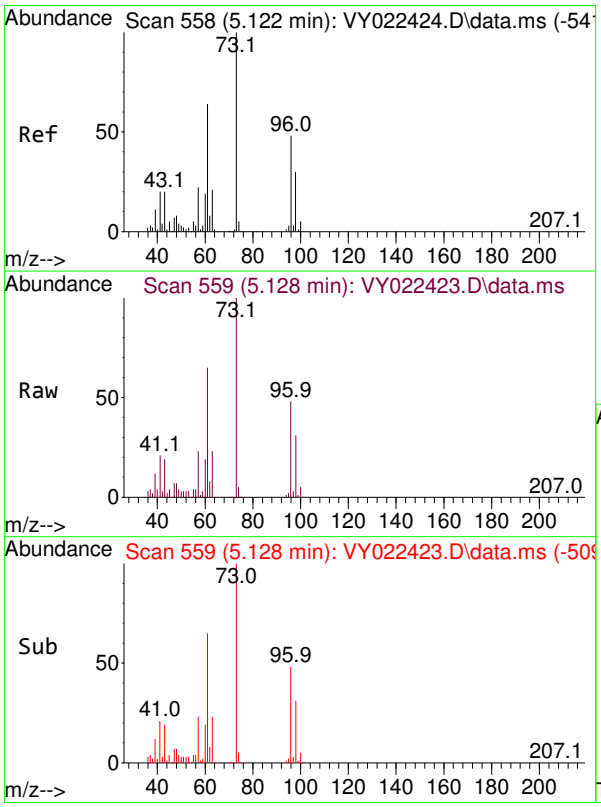


#18
Methyl Acetate
Concen: 18.275 ug/l
RT: 4.397 min Scan# 439
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 43 Resp: 29942

Ion	Ratio	Lower	Upper
43	100		
74	27.1	21.2	31.8





#19
Methyl tert-butyl Ether
Concen: 19.508 ug/l
RT: 5.128 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 73 Resp: 13712

Ion	Ratio	Lower	Upper
73	100		
57	23.3	17.7	26.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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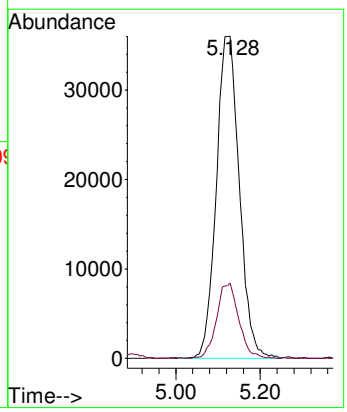
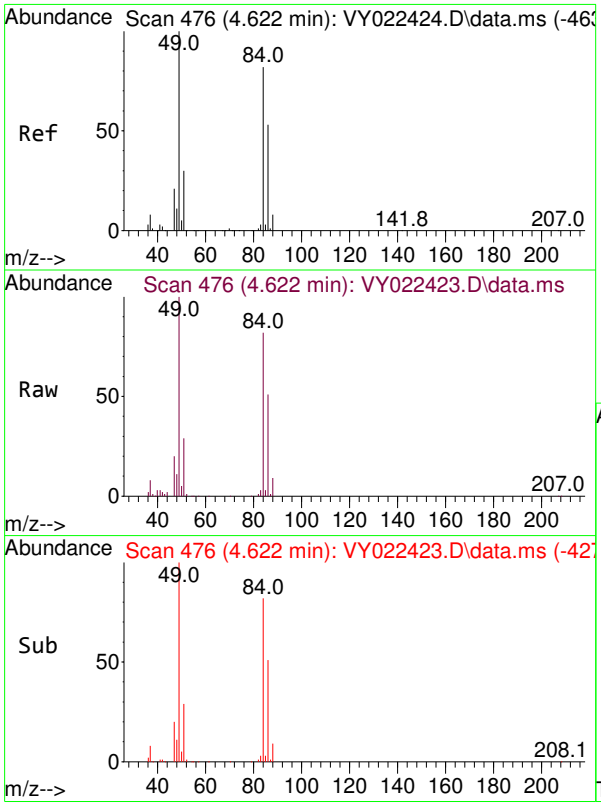
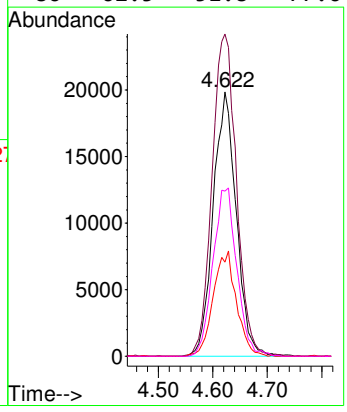


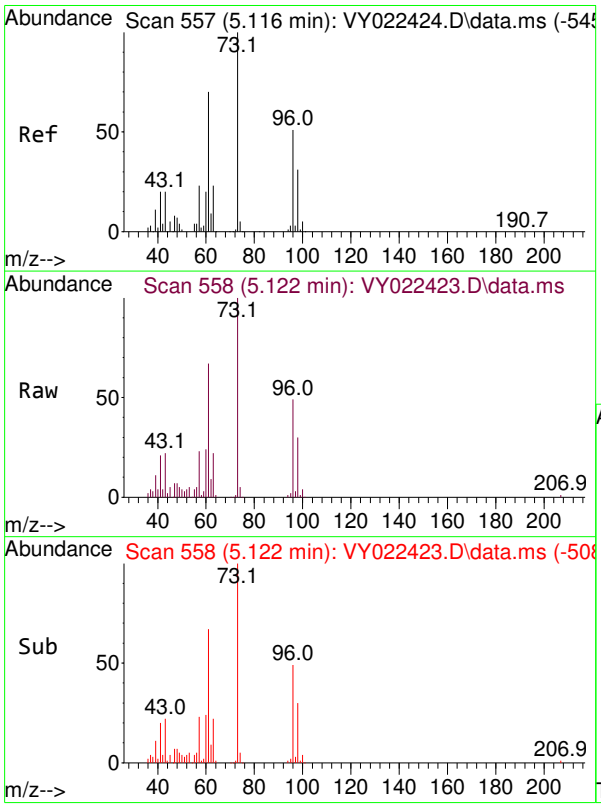


#20
Methylene Chloride
Concen: 18.912 ug/l
RT: 4.622 min Scan# 476
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 84 Resp: 58412

Ion	Ratio	Lower	Upper
84	100		
49	122.0	97.8	146.8
51	35.6	29.5	44.3
86	62.5	51.8	77.6





#21
trans-1,2-Dichloroethene
Concen: 19.411 ug/l
RT: 5.122 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 96 Resp: 5610

Ion	Ratio	Lower	Upper
96	100		
61	137.0	110.4	165.6
98	62.0	48.6	73.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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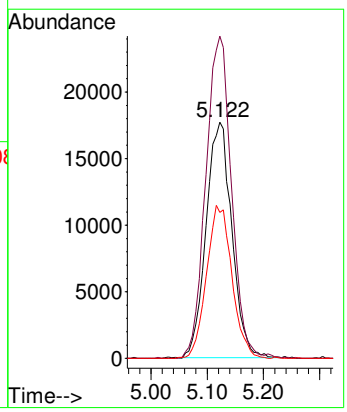
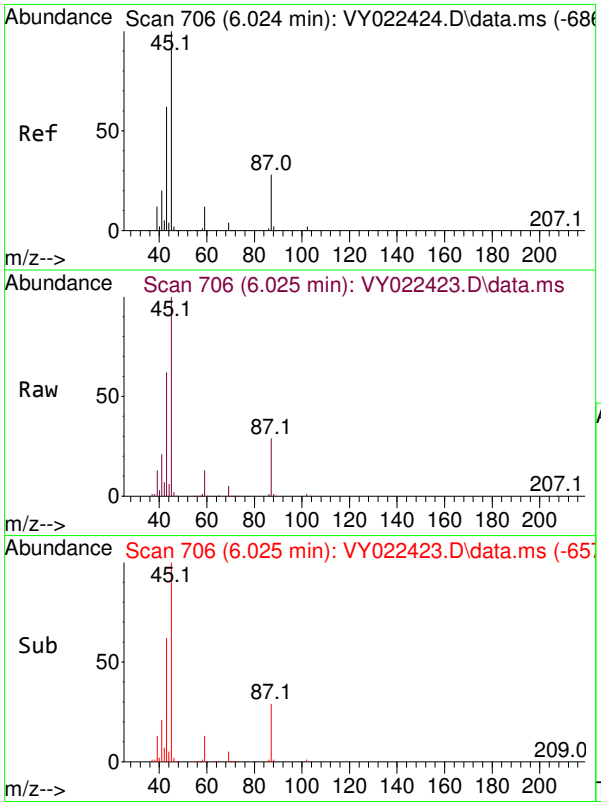
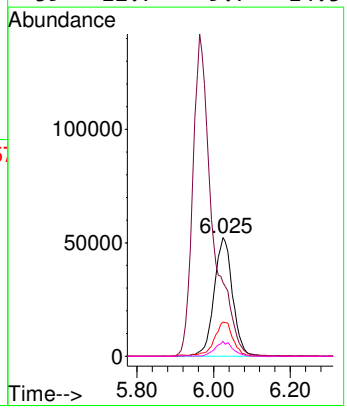


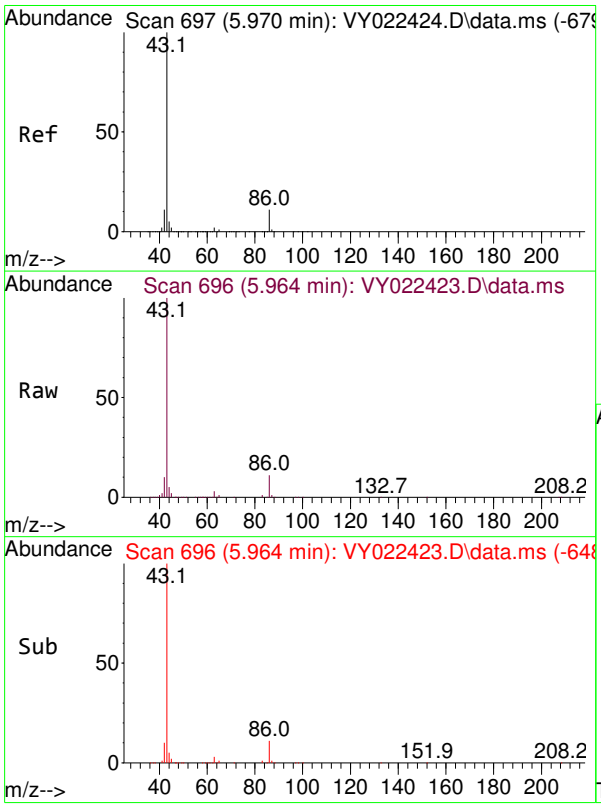


#22
Diisopropyl ether
Concen: 19.918 ug/l
RT: 6.025 min Scan# 706
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 45 Resp: 175073

Ion	Ratio	Lower	Upper
45	100		
43	61.3	49.8	74.8
87	28.9	23.0	34.6
59	12.7	9.7	14.5





#23
Vinyl Acetate
Concen: 99.882 ug/l
RT: 5.964 min Scan# 6
Delta R.T. -0.006 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 43 Resp: 50410

Ion	Ratio	Lower	Upper
43	100		
86	10.7	8.8	13.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
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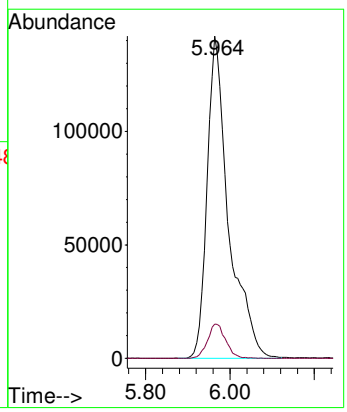
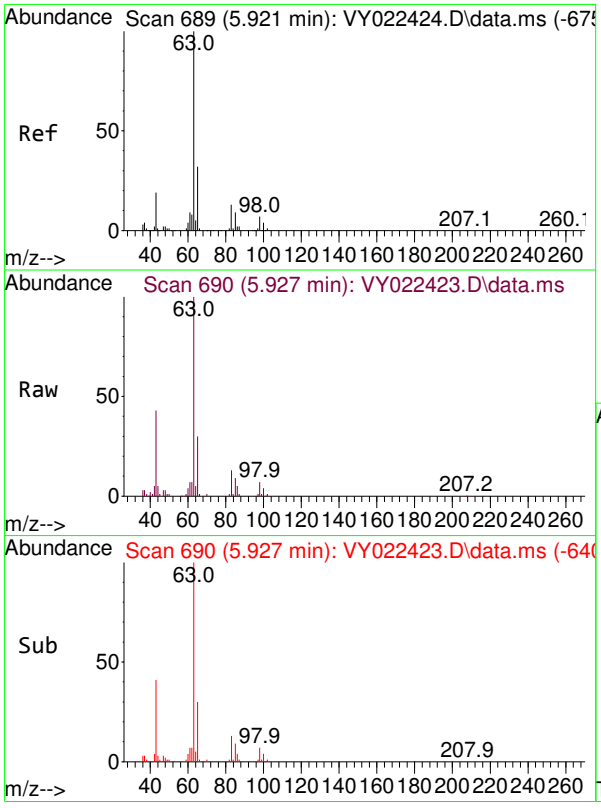
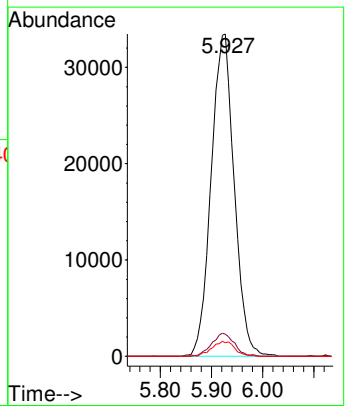


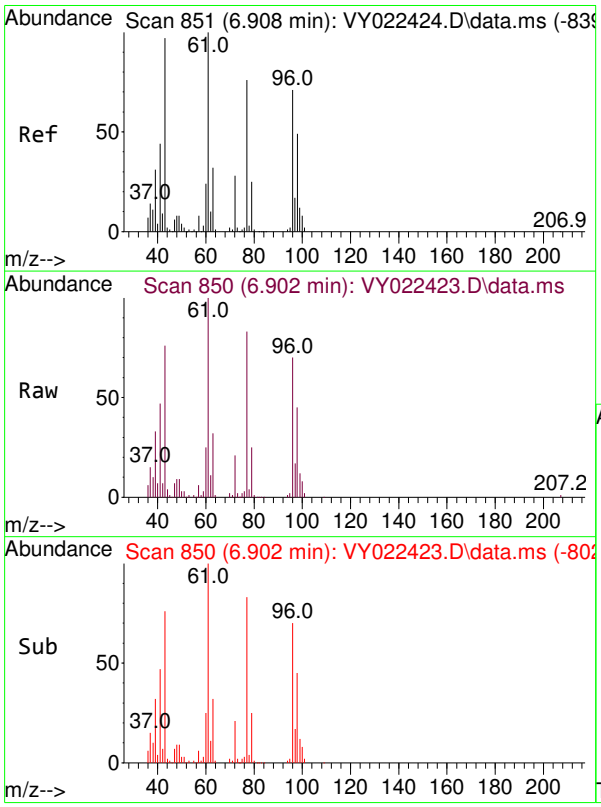


#24
1,1-Dichloroethane
Concen: 20.143 ug/l
RT: 5.927 min Scan# 690
Delta R.T. 0.006 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 63 Resp: 104623

Ion	Ratio	Lower	Upper
63	100		
98	6.9	3.5	10.5
100	4.2	2.1	6.5





#25
2-Butanone
Concen: 94.358 ug/l
RT: 6.902 min Scan# 8
Delta R.T. -0.006 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 43 Resp: 6873

Ion	Ratio	Lower	Upper
43	100		
72	27.9	22.8	34.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

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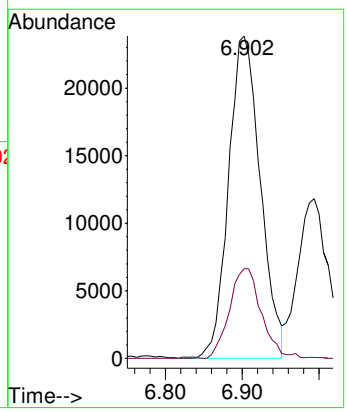
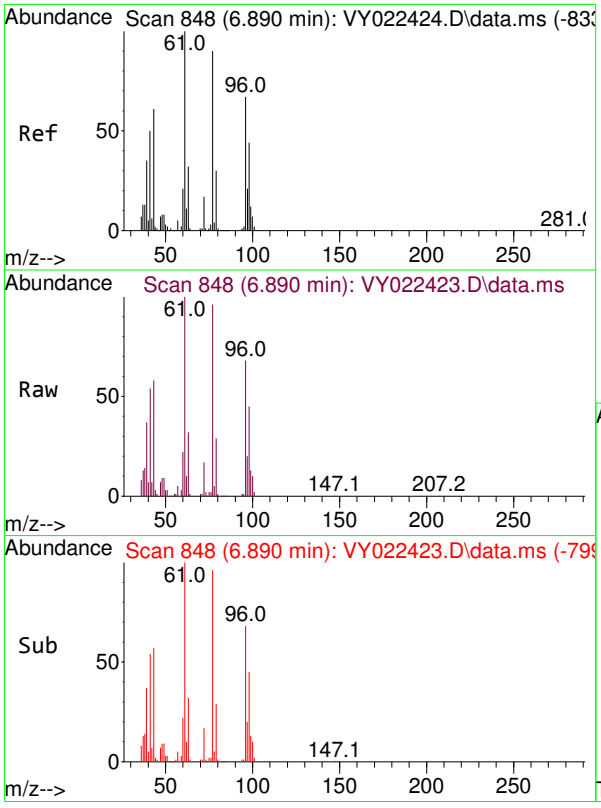
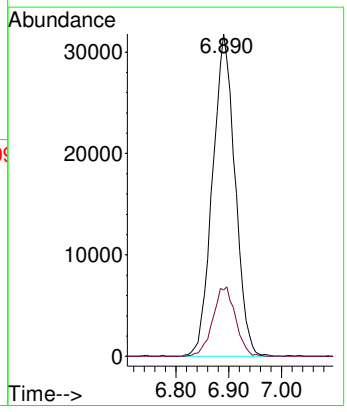


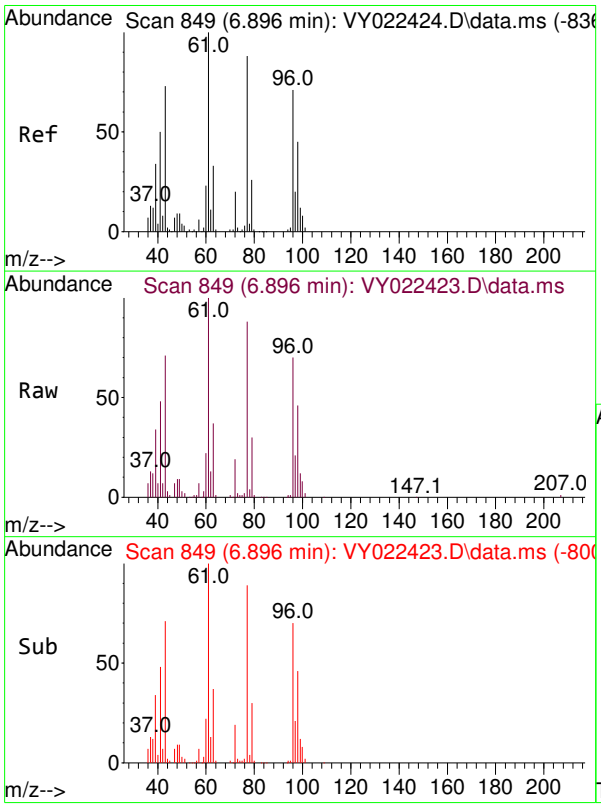


#26
2,2-Dichloropropane
Concen: 20.142 ug/l
RT: 6.890 min Scan# 848
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 77 Resp: 94730

Ion	Ratio	Lower	Upper
77	100		
97	21.7	11.6	34.7

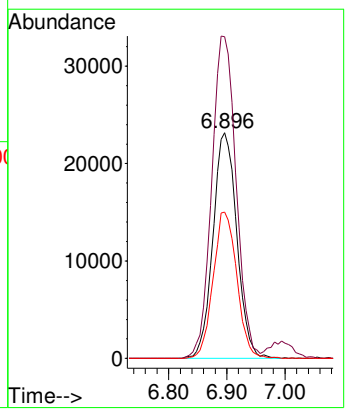




#27
cis-1,2-Dichloroethene
Concen: 19.640 ug/l
RT: 6.896 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 96 Resp: 6571

Ion	Ratio	Lower	Upper
96	100		
61	146.3	0.0	292.0
98	64.6	0.0	131.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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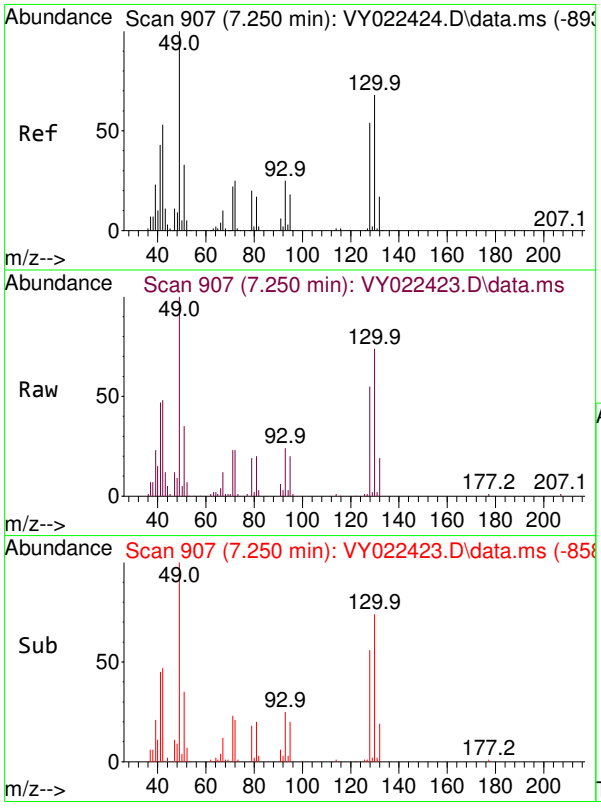
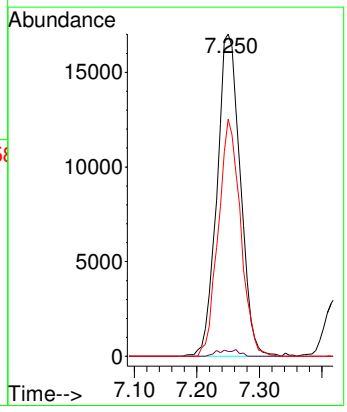
Supervised By :Mahesh Dadoda 05/28/2025

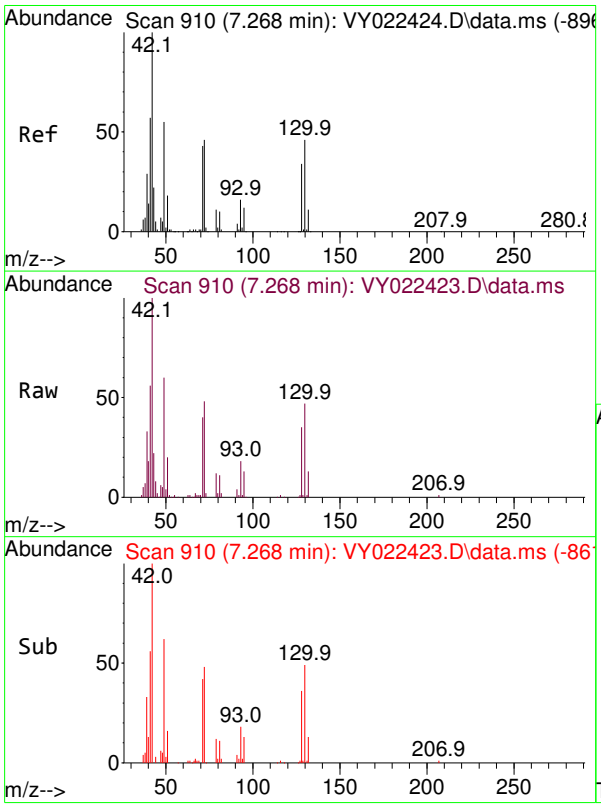


#28
Bromochloromethane
Concen: 20.266 ug/l
RT: 7.250 min Scan# 907
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 49 Resp: 43955

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	4.0
130	70.2	56.9	85.3

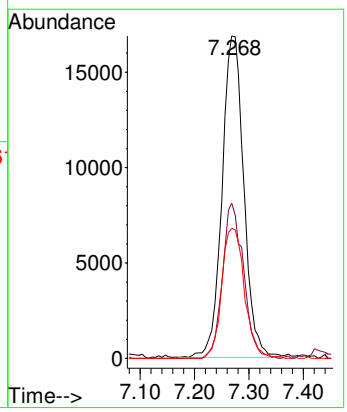




#29
Tetrahydrofuran
Concen: 95.946 ug/l
RT: 7.268 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 42 Resp: 4661

Ion	Ratio	Lower	Upper
42	100		
72	46.6	37.7	56.5
71	42.6	34.7	52.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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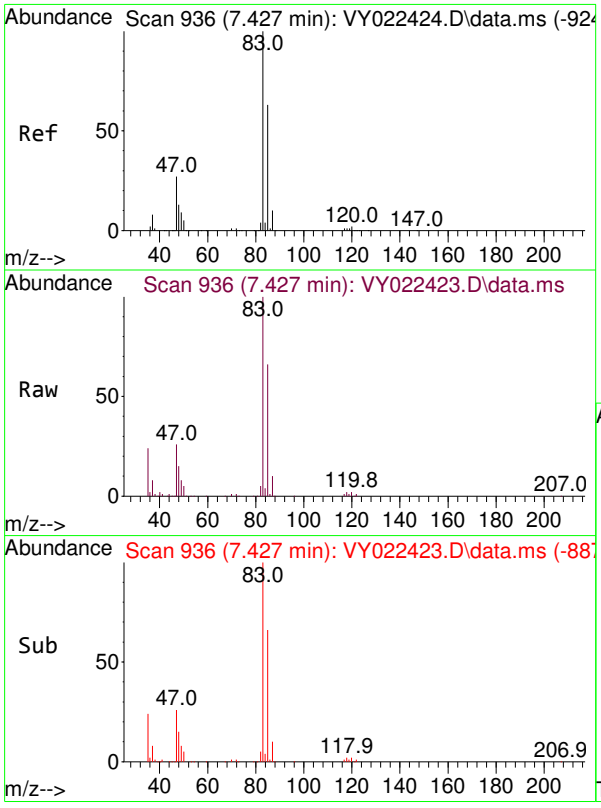
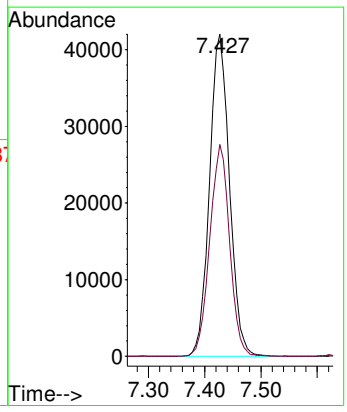
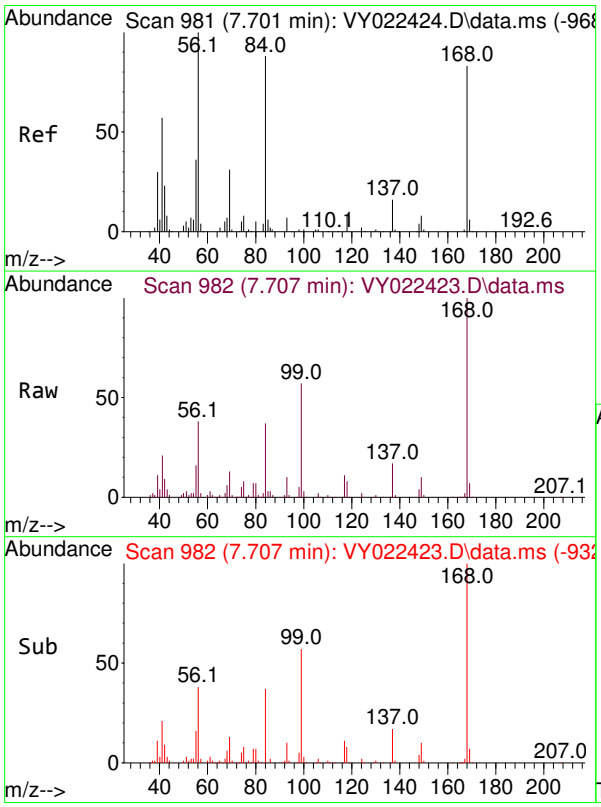


#30
Chloroform
Concen: 20.211 ug/l
RT: 7.427 min Scan# 936
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 83 Resp: 103440

Ion	Ratio	Lower	Upper
83	100		
85	65.7	50.1	75.1





#31
Cyclohexane
Concen: 19.685 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 56 Resp: 10078

Ion	Ratio	Lower	Upper
56	100		
69	34.8	24.6	36.8
84	94.5	70.4	105.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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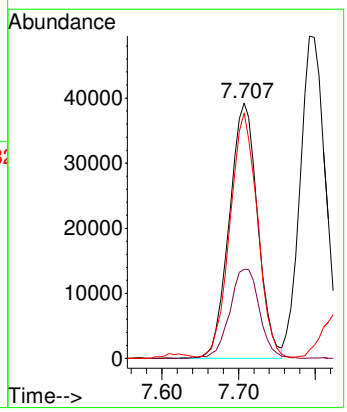
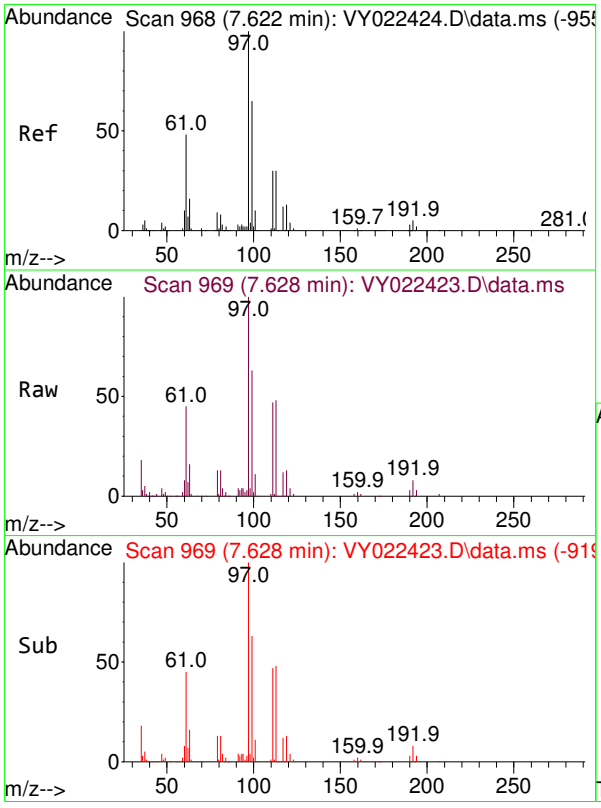
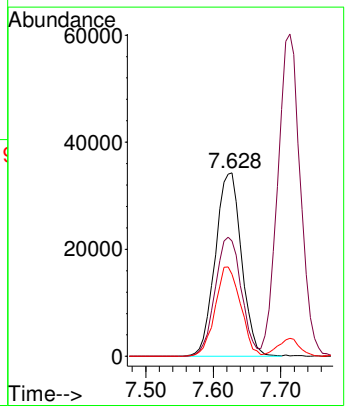


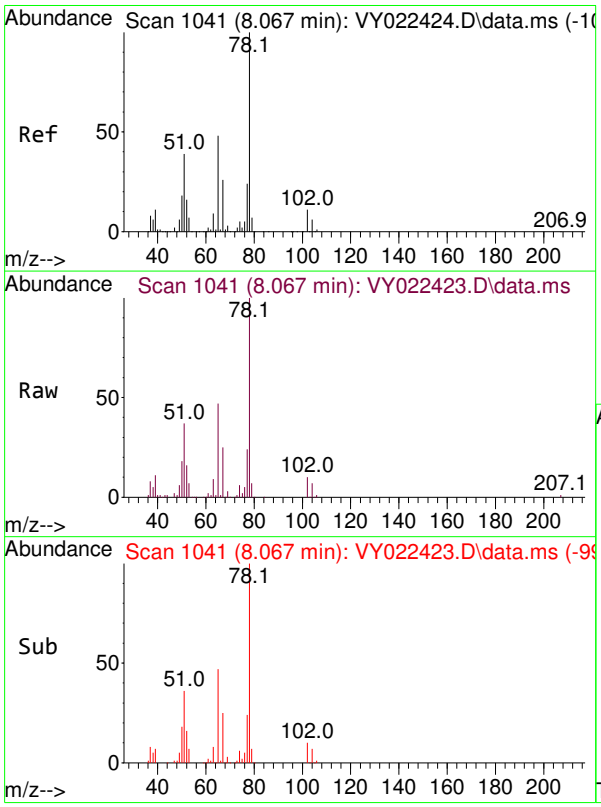


#32
1,1,1-Trichloroethane
Concen: 19.923 ug/l
RT: 7.628 min Scan# 969
Delta R.T. 0.006 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 97 Resp: 92540

Ion	Ratio	Lower	Upper
97	100		
99	64.6	51.3	76.9
61	47.2	37.3	55.9





#33
1,2-Dichloroethane-d4
Concen: 19.622 ug/l
RT: 8.067 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 65 Resp: 5222

Ion	Ratio	Lower	Upper
65	100		
67	53.1	0.0	104.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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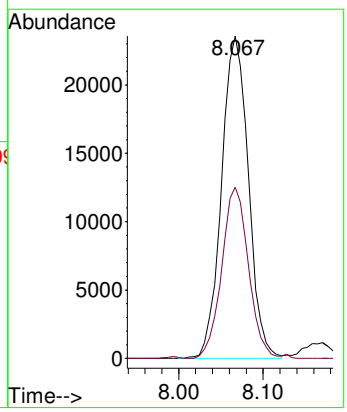
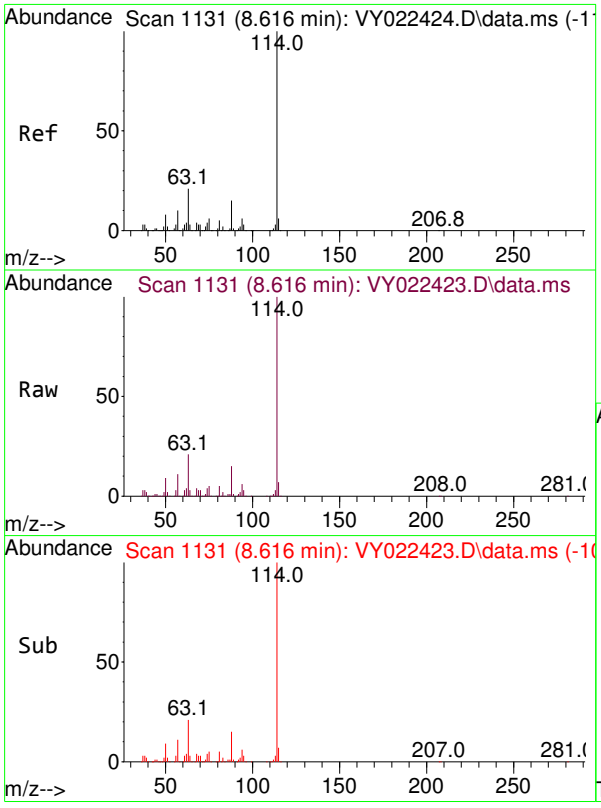
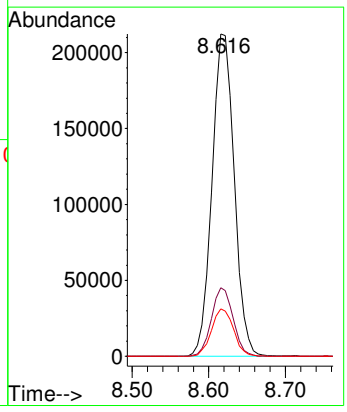


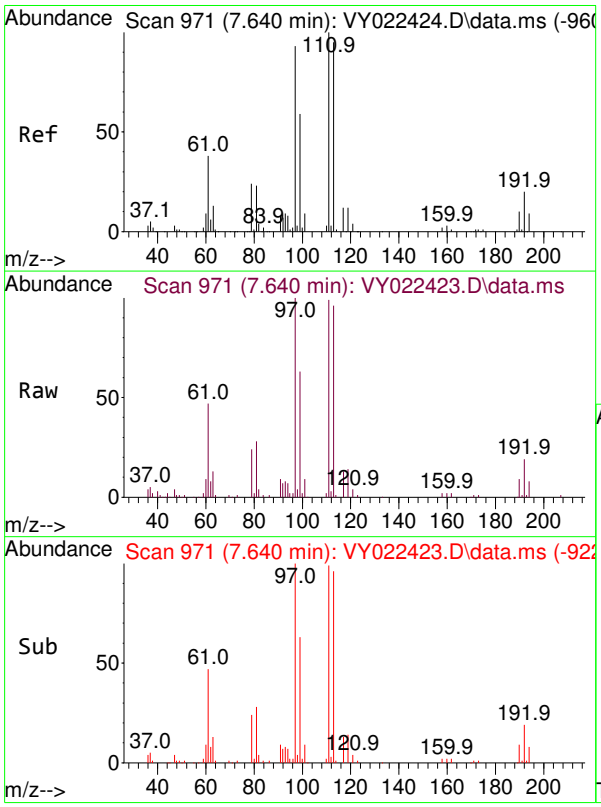


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion:114 Resp: 427651

Ion	Ratio	Lower	Upper
114	100		
63	21.3	0.0	42.6
88	14.7	0.0	29.4





#35
Dibromofluoromethane
Concen: 19.331 ug/l
RT: 7.640 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion:113 Resp: 4841

Ion	Ratio	Lower	Upper
113	100		
111	106.3	82.4	123.6
192	19.0	15.2	22.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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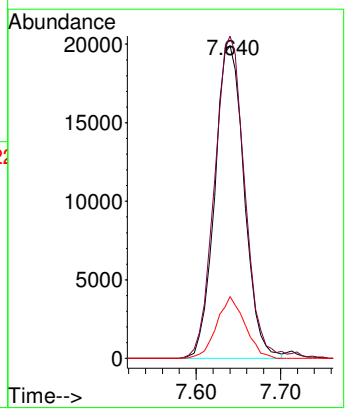
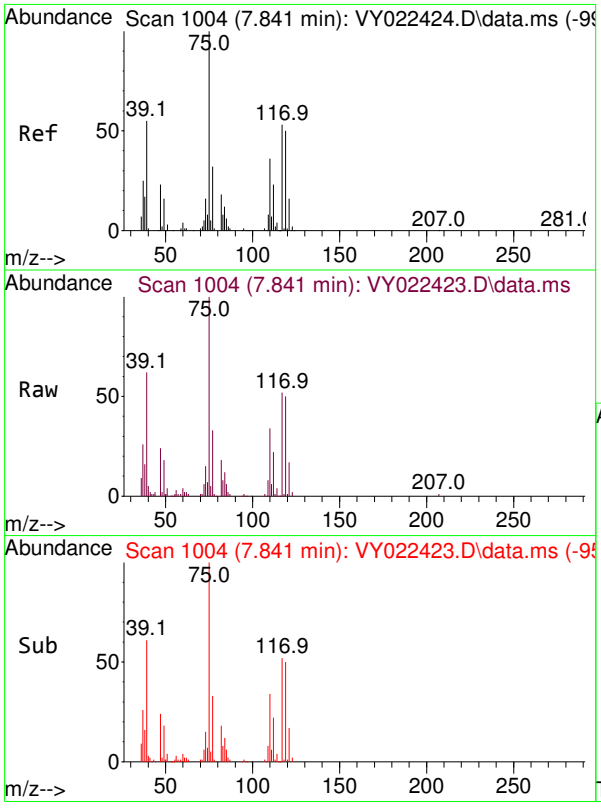
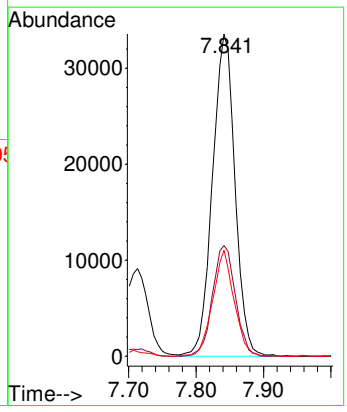


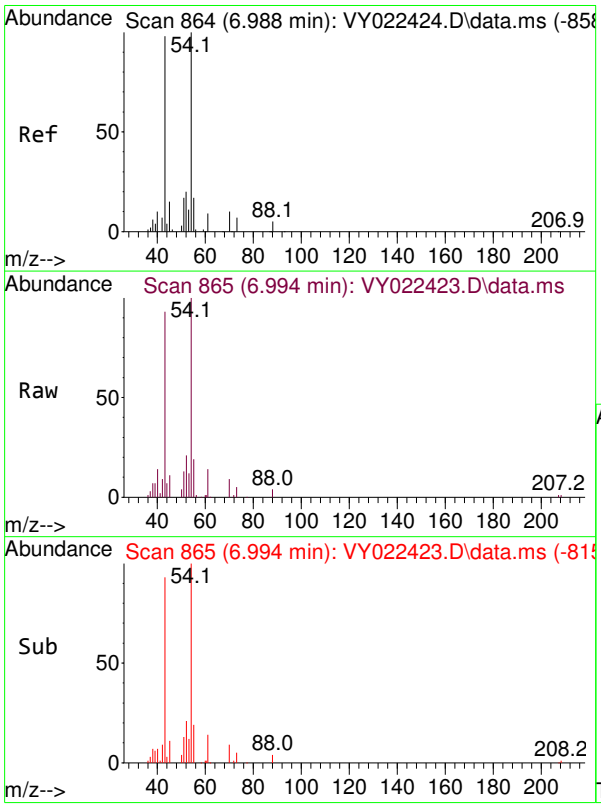


#36
1,1-Dichloropropene
Concen: 19.594 ug/l
RT: 7.841 min Scan# 1004
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 75 Resp: 77871

Ion	Ratio	Lower	Upper
75	100		
110	34.8	17.1	51.2
77	31.3	25.1	37.7





#37
Ethyl Acetate
Concen: 19.462 ug/l
RT: 6.994 min Scan# 8
Delta R.T. 0.006 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 43 Resp: 3287

Ion	Ratio	Lower	Upper
43	100		
61	15.4	11.7	17.5
70	9.0	7.8	11.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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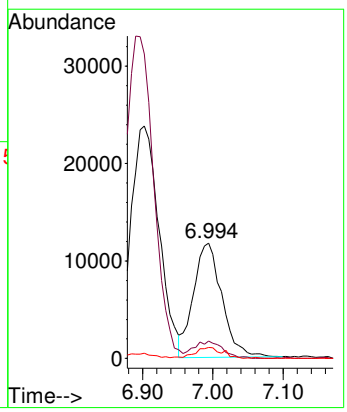
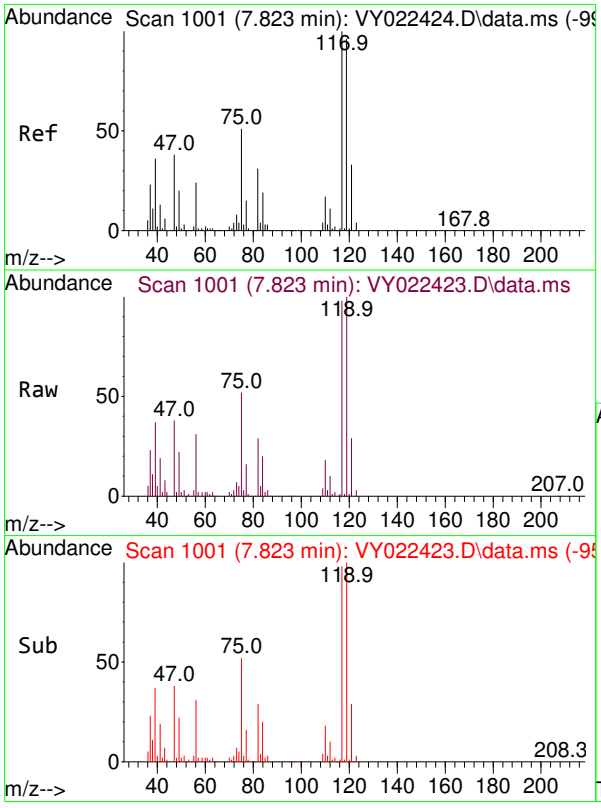
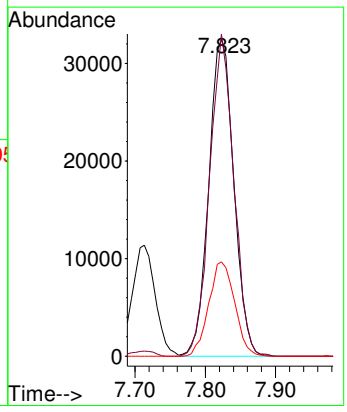


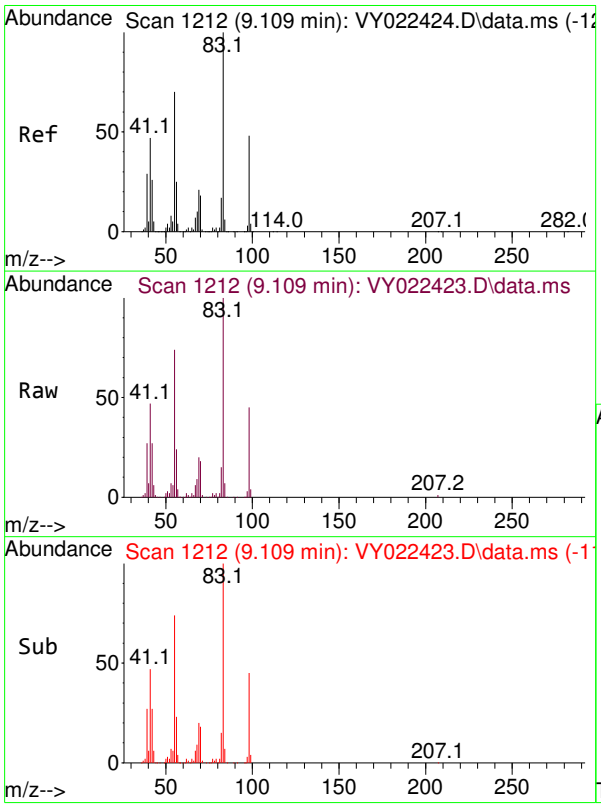


#38
Carbon Tetrachloride
Concen: 19.468 ug/l
RT: 7.823 min Scan# 1001
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion:117 Resp: 80594

Ion	Ratio	Lower	Upper
117	100		
119	101.7	76.3	114.5
121	29.8	26.1	39.1





#39
Methylcyclohexane
Concen: 19.540 ug/l
RT: 9.109 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 83 Resp: 10322

Ion	Ratio	Lower	Upper
83	100		
55	73.7	56.2	84.2
98	44.5	38.4	57.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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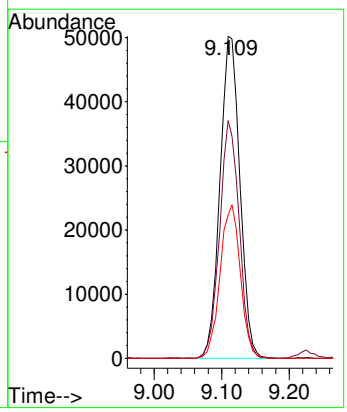
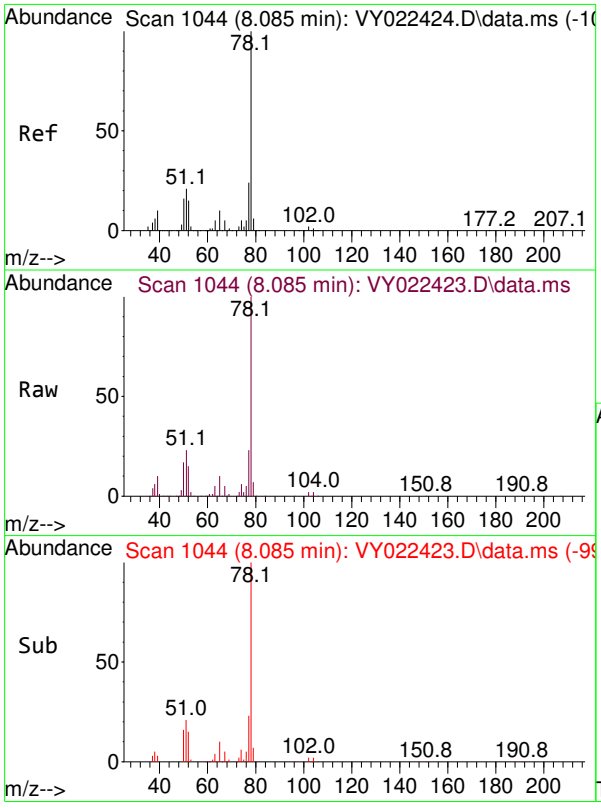
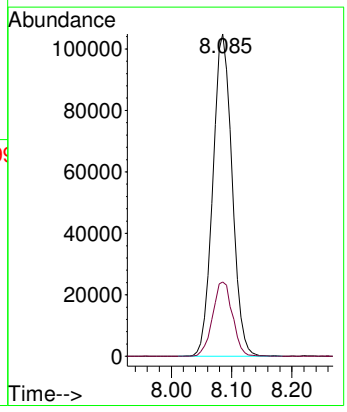


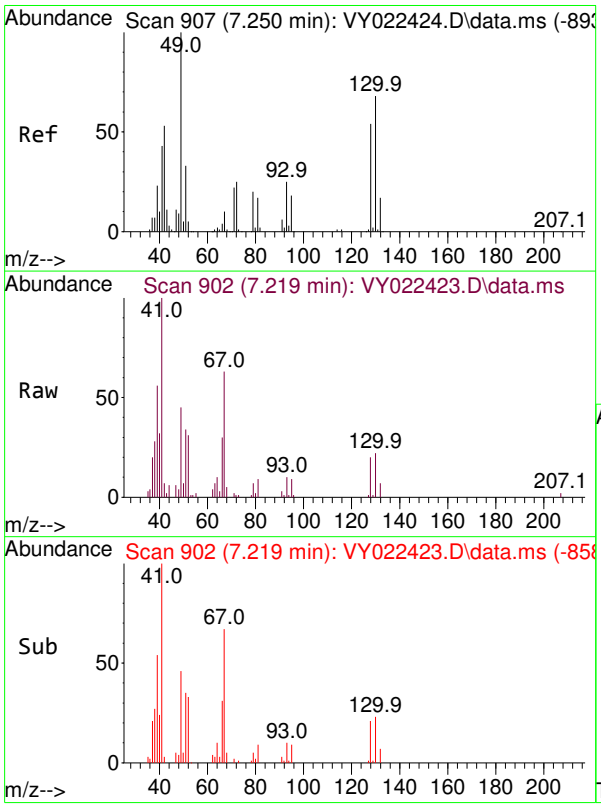


#40
Benzene
Concen: 19.670 ug/l
RT: 8.085 min Scan# 1044
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 78 Resp: 232606

Ion	Ratio	Lower	Upper
78	100		
77	23.0	19.4	29.2

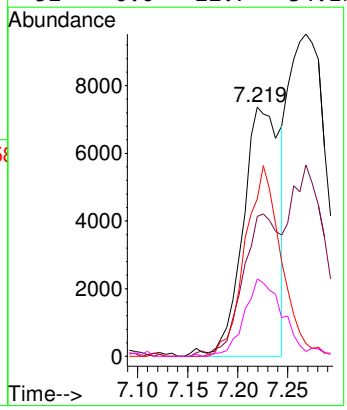




#41
Methacrylonitrile
Concen: 8.609 ug/l m
RT: 7.219 min Scan# 9
Delta R.T. -0.030 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 41 Resp: 1913

Ion	Ratio	Lower	Upper
41	100		
39	76.6	40.4	60.6
67	0.0	53.0	79.4
52	0.0	22.7	34.1#



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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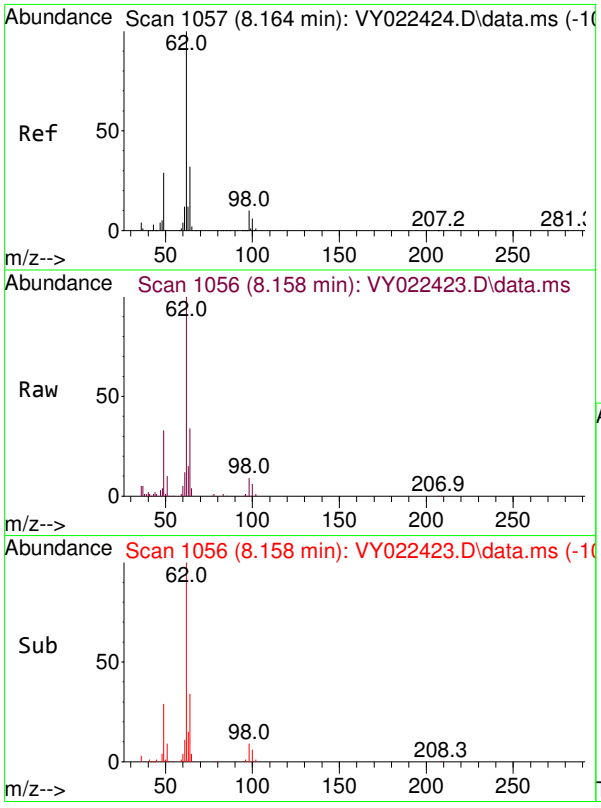
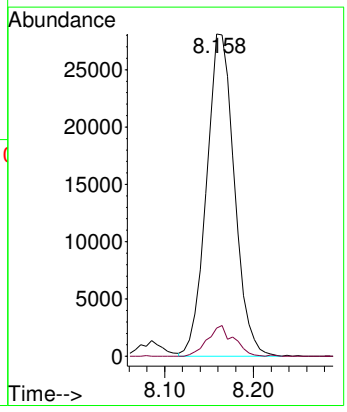
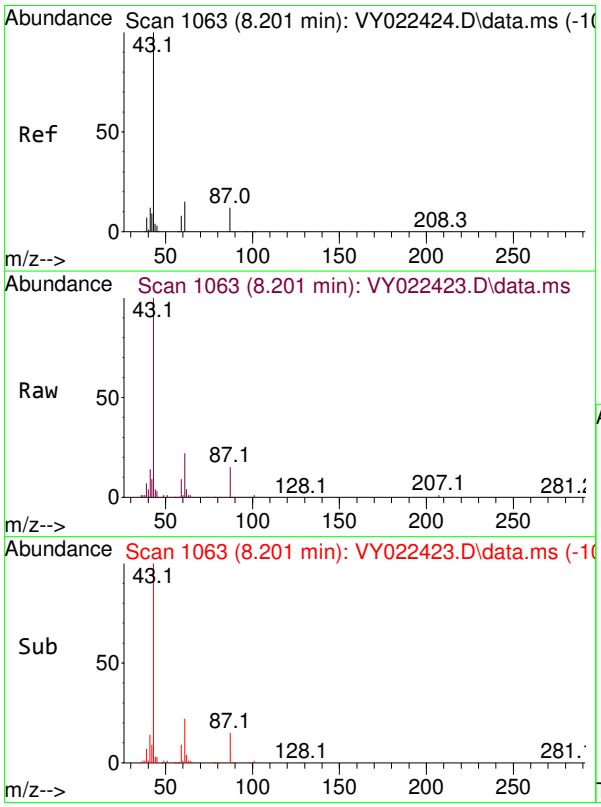


#42
1,2-Dichloroethane
Concen: 19.699 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. -0.006 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 62 Resp: 61523

Ion	Ratio	Lower	Upper
62	100		
98	9.0	0.0	18.4





#43
Isopropyl Acetate
Concen: 19.483 ug/l
RT: 8.201 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 43 Resp: 7190

Ion	Ratio	Lower	Upper
43	100		
61	30.1	15.4	23.0
87	13.2	10.6	15.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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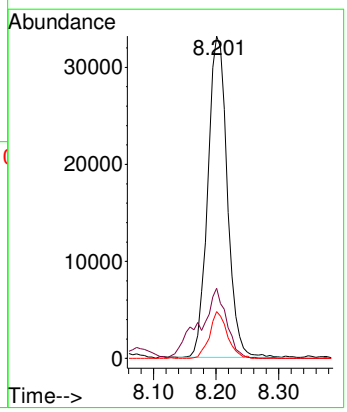
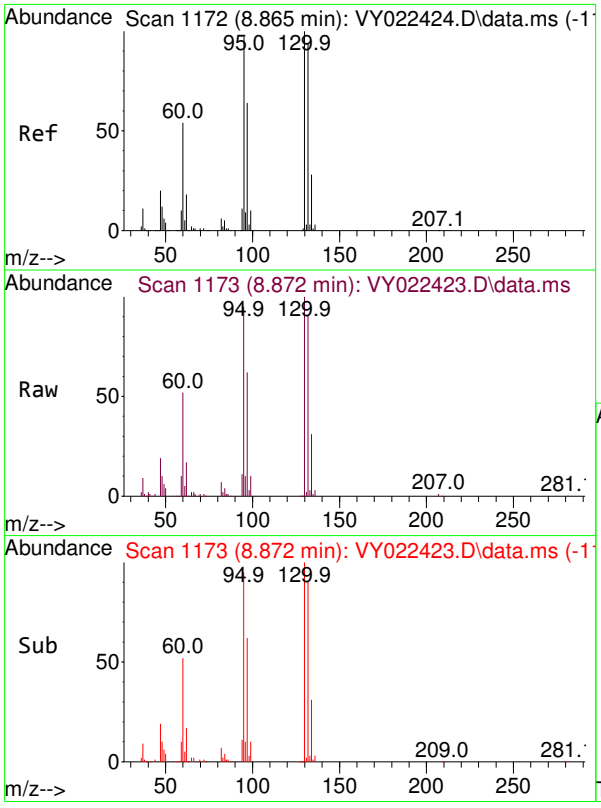
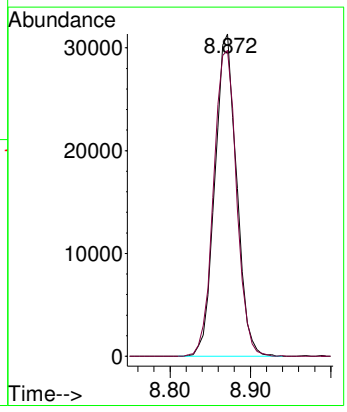


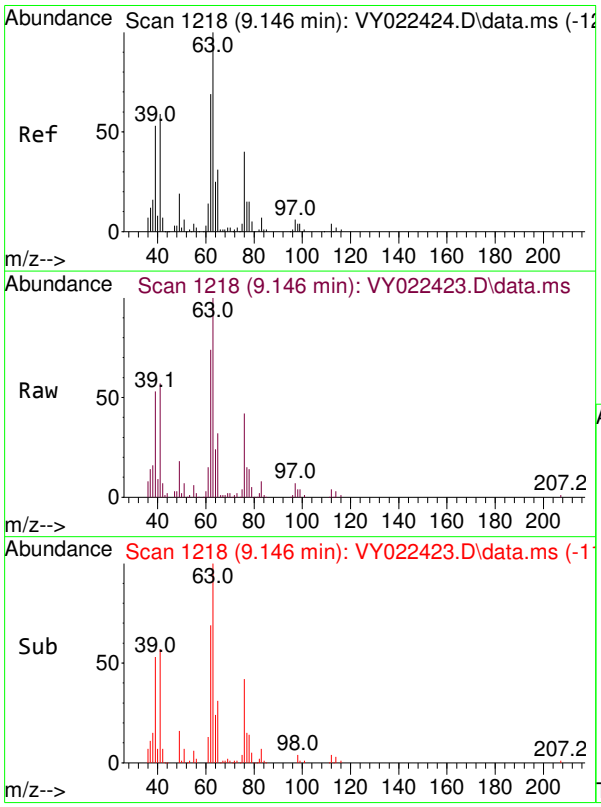


#44
Trichloroethene
Concen: 20.135 ug/l
RT: 8.872 min Scan# 1173
Delta R.T. 0.006 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion:130 Resp: 58860

Ion	Ratio	Lower	Upper
130	100		
95	94.8	0.0	194.8





#45
1,2-Dichloropropane
Concen: 19.598 ug/l
RT: 9.146 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 63 Resp: 5445

Ion	Ratio	Lower	Upper
63	100		
65	32.1	25.1	37.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
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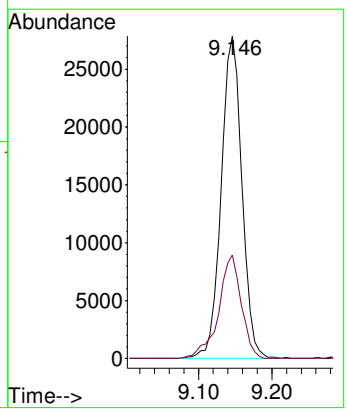
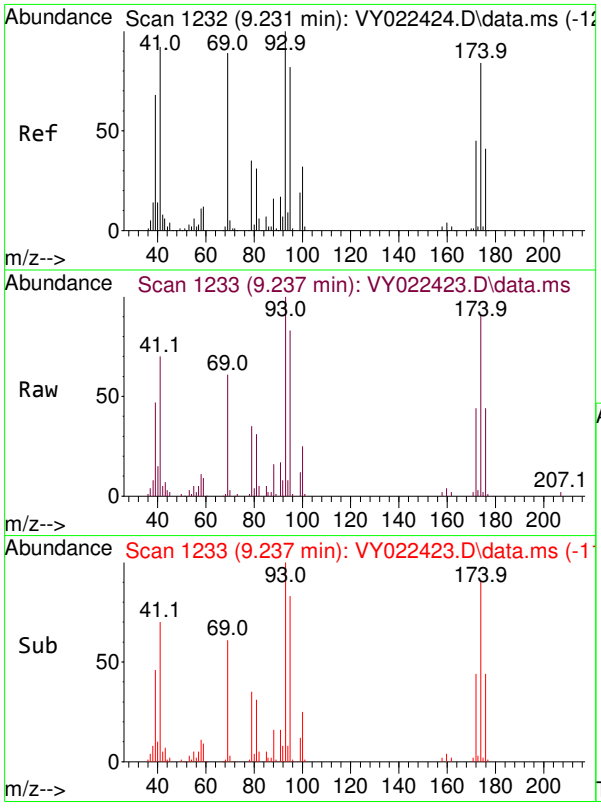
Supervised By :Mahesh Dadoda 05/28/2025

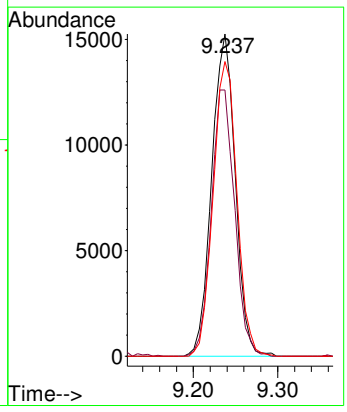


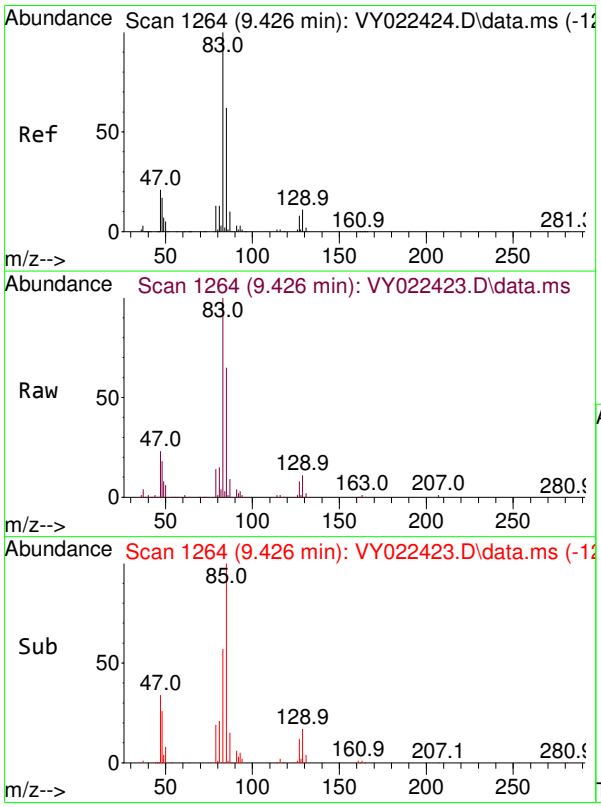


#46
Dibromomethane
Concen: 19.122 ug/l
RT: 9.237 min Scan# 1233
Delta R.T. 0.006 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 93 Resp: 29679

Ion	Ratio	Lower	Upper
93	100		
95	82.0	66.2	99.2
174	92.5	71.1	106.7





#47
Bromodichloromethane
Concen: 19.250 ug/l
RT: 9.426 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 83 Resp: 7683

Ion	Ratio	Lower	Upper
83	100		
85	64.6	49.8	74.6
127	8.0	6.6	9.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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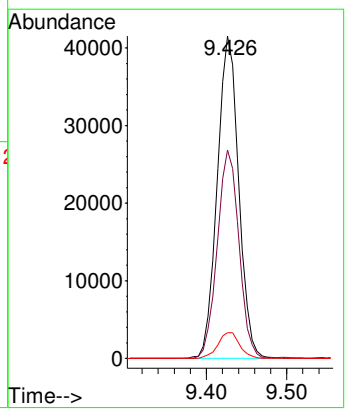
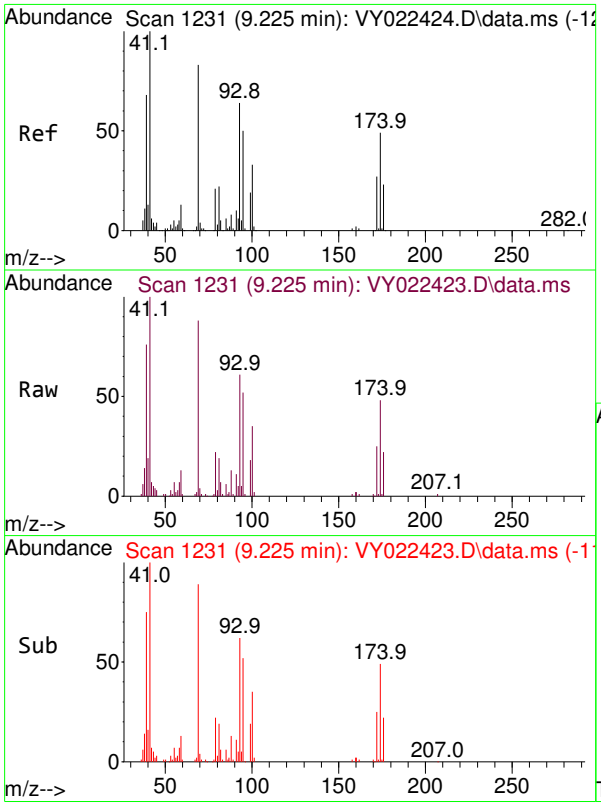
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

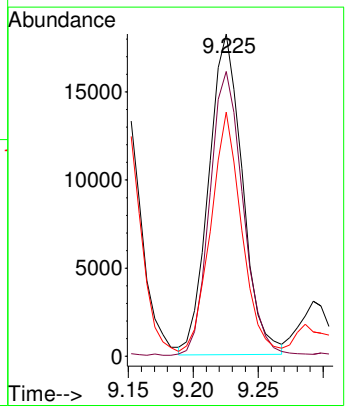


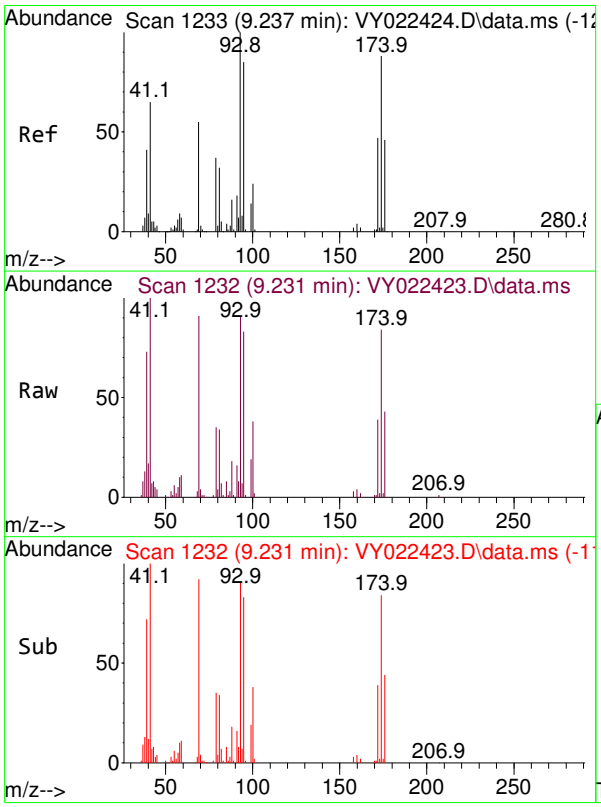


#48
Methyl methacrylate
Concen: 19.218 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 41 Resp: 32925

Ion	Ratio	Lower	Upper
41	100		
69	87.2	70.3	105.5
39	67.9	55.4	83.0





#49
1,4-Dioxane
Concen: 403.829 ug/l
RT: 9.231 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 88 Resp: 692

Ion	Ratio	Lower	Upper
88	100		
43	37.7	26.9	40.3
58	61.5	55.8	83.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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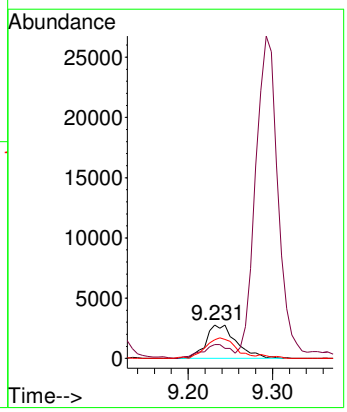
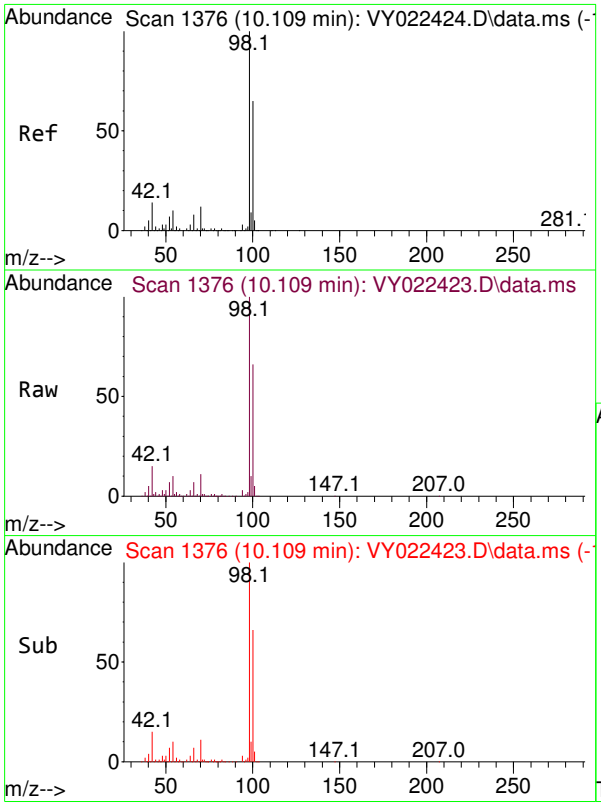
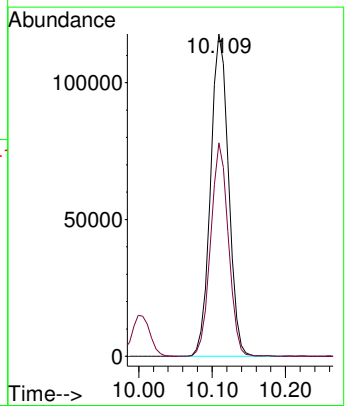


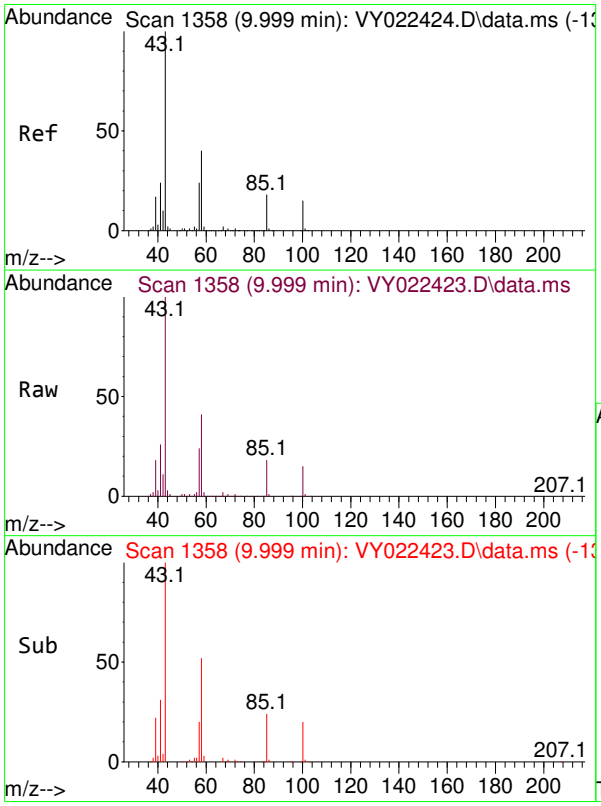


#50
Toluene-d8
Concen: 19.571 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 98 Resp: 199816

Ion	Ratio	Lower	Upper
98	100		
100	65.2	52.2	78.2





#51
4-Methyl-2-Pentanone
Concen: 92.837 ug/l
RT: 9.999 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 43 Resp: 16905

Ion	Ratio	Lower	Upper
43	100		
58	39.6	31.2	46.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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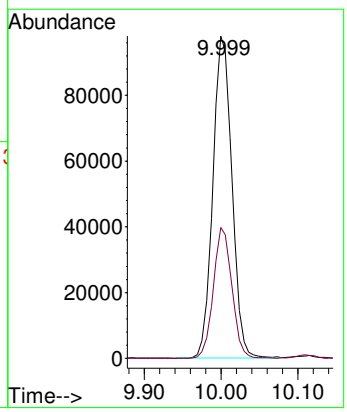
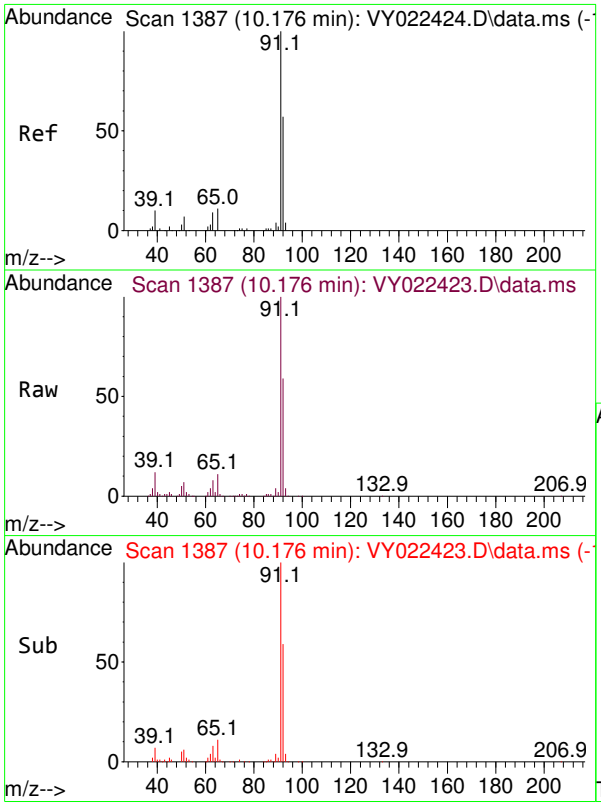
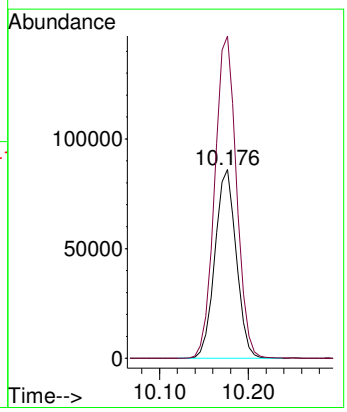


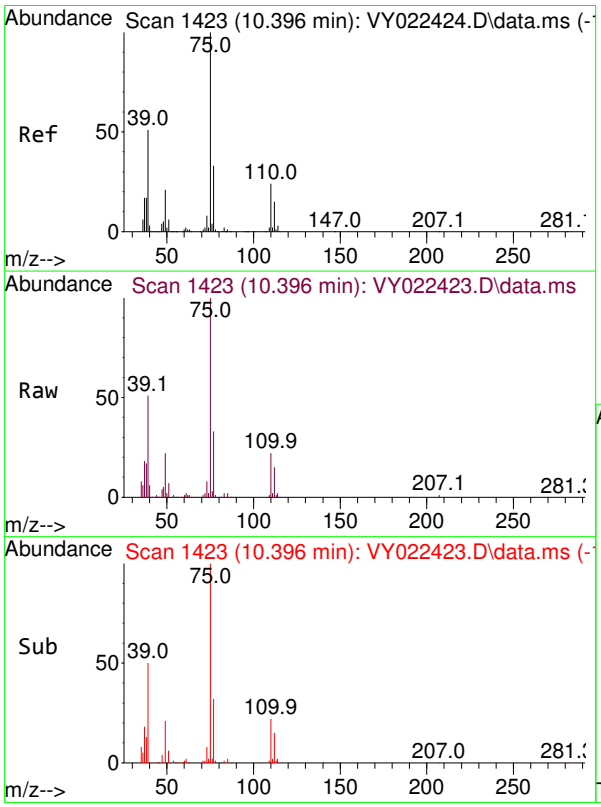


#52
Toluene
Concen: 19.489 ug/l
RT: 10.176 min Scan# 1387
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 92 Resp: 143949

Ion	Ratio	Lower	Upper
92	100		
91	174.8	139.8	209.6





#53
t-1,3-Dichloropropene
Concen: 19.160 ug/l
RT: 10.396 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 75 Resp: 7123

Ion	Ratio	Lower	Upper
75	100		
77	32.7	26.2	39.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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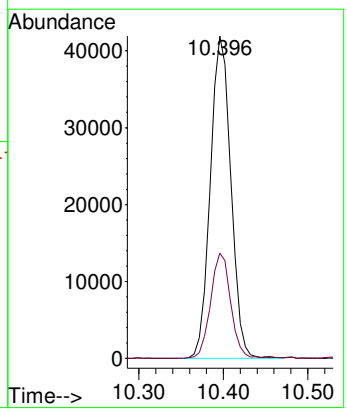
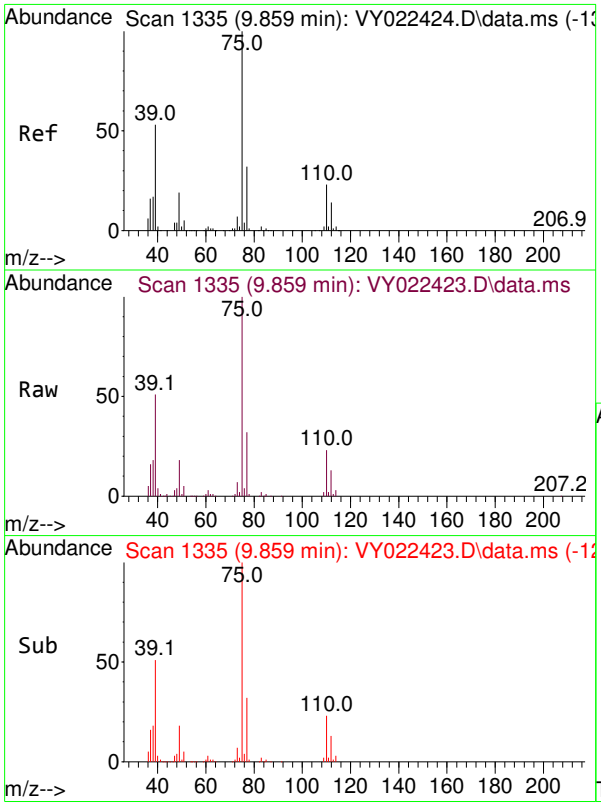
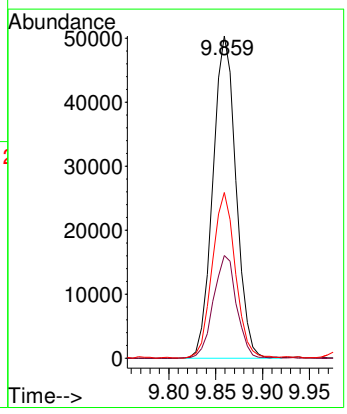


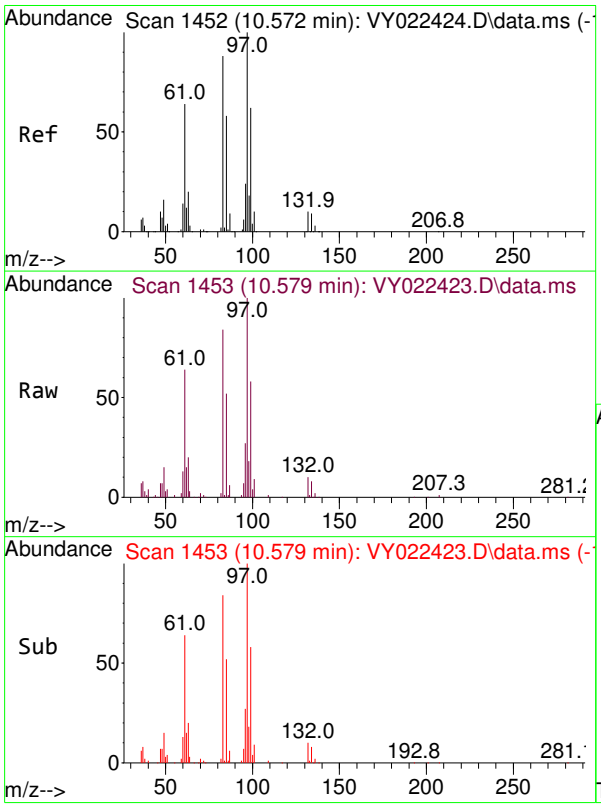


#54
cis-1,3-Dichloropropene
Concen: 19.747 ug/l
RT: 9.859 min Scan# 1335
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 75 Resp: 86263

Ion	Ratio	Lower	Upper
75	100		
77	31.8	25.4	38.2
39	51.2	42.5	63.7

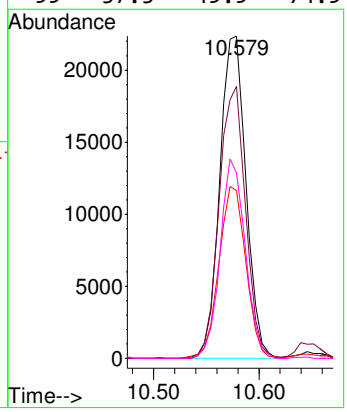




#55
1,1,2-Trichloroethane
Concen: 19.713 ug/l
RT: 10.579 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 97 Resp: 3868

Ion	Ratio	Lower	Upper
97	100		
83	84.4	70.2	105.4
85	52.0	46.1	69.1
99	57.5	49.9	74.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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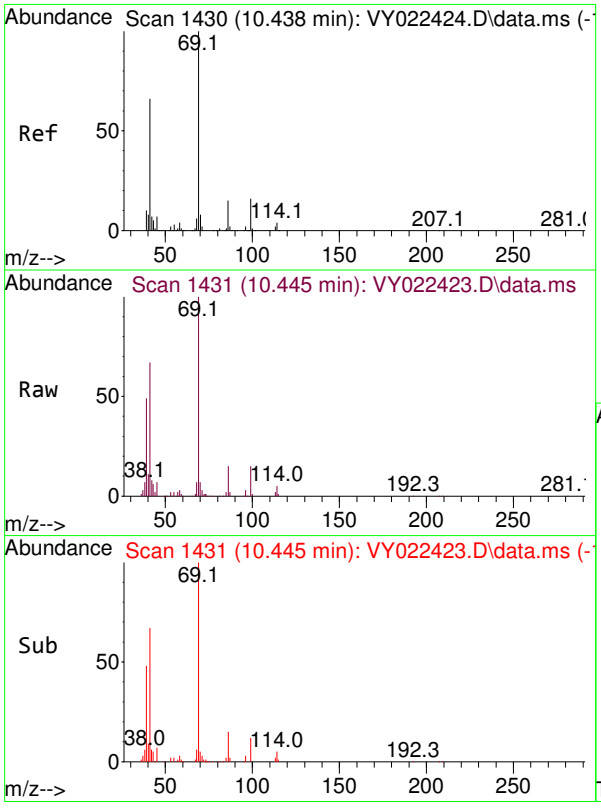
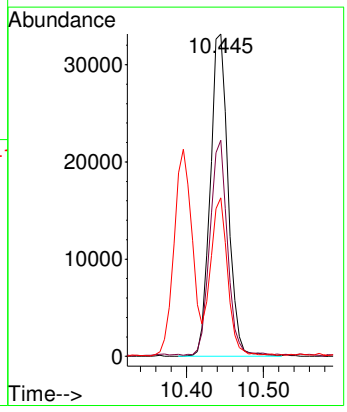
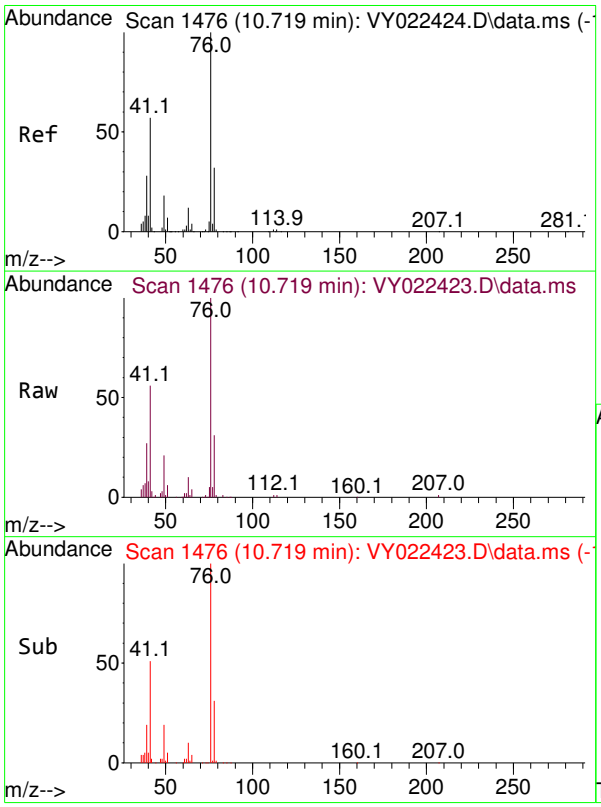


#56
Ethyl methacrylate
Concen: 19.140 ug/l
RT: 10.445 min Scan# 1431
Delta R.T. 0.006 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 69 Resp: 53900

Ion	Ratio	Lower	Upper
69	100		
41	65.2	51.2	76.8
39	45.7	35.2	52.8





#57
1,3-Dichloropropane
Concen: 19.893 ug/l
RT: 10.719 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 76 Resp: 6879

Ion	Ratio	Lower	Upper
76	100		
78	32.8	25.8	38.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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Reviewed By :Amit Patel 05/28/2025
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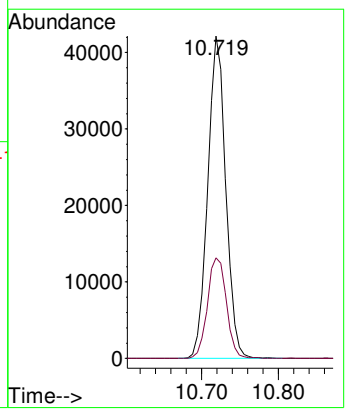
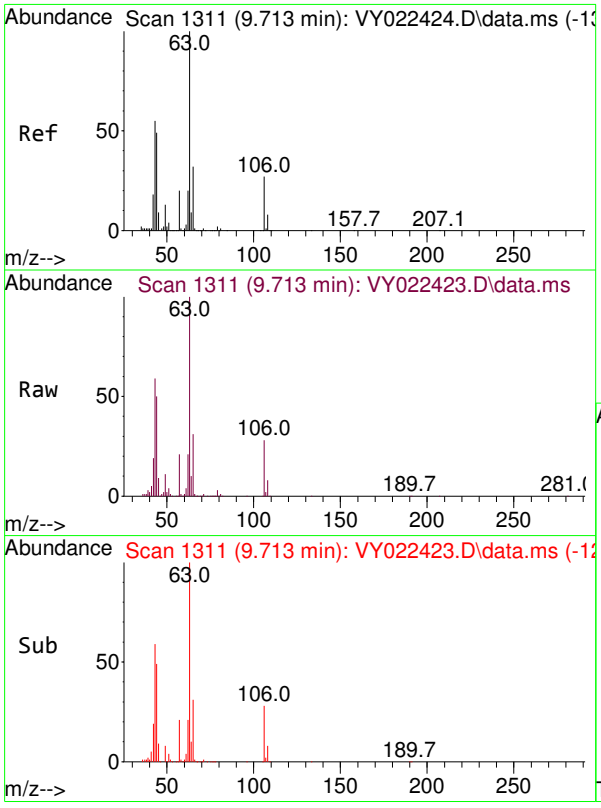
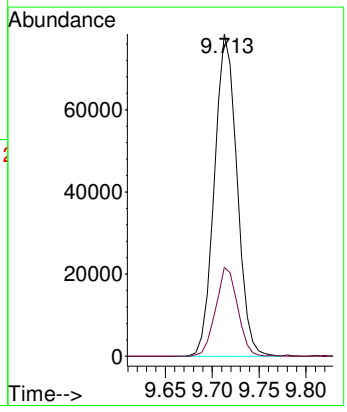


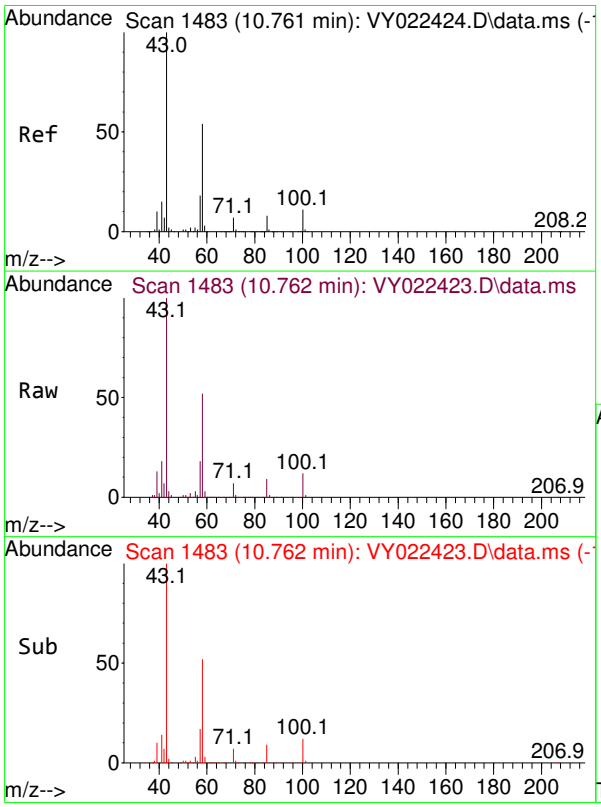


#58
2-Chloroethyl Vinyl ether
Concen: 93.311 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 63 Resp: 130961

Ion	Ratio	Lower	Upper
63	100		
106	26.9	22.2	33.2





#59
2-Hexanone
Concen: 92.136 ug/l
RT: 10.762 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 43 Resp: 10995

Ion	Ratio	Lower	Upper
43	100		
58	55.9	27.1	81.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
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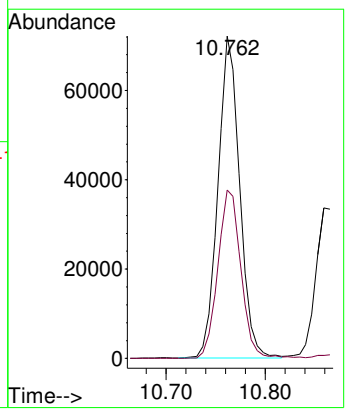
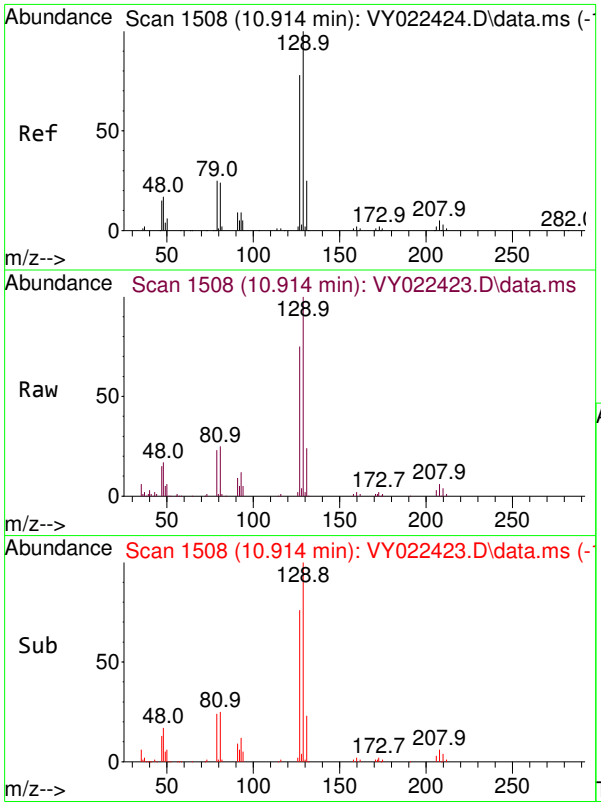
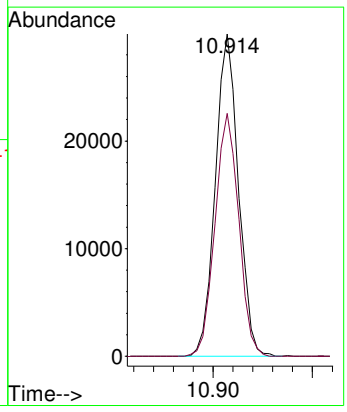


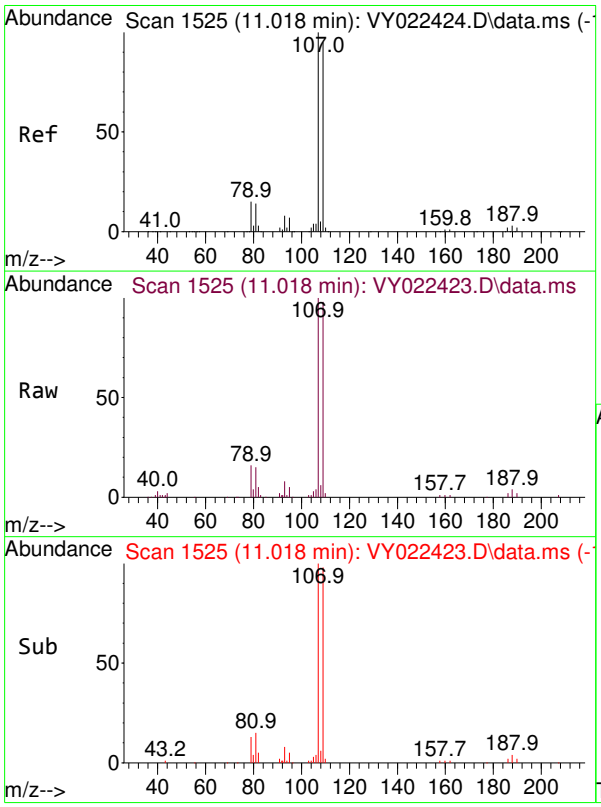


#60
Dibromochloromethane
Concen: 19.384 ug/l
RT: 10.914 min Scan# 1508
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion:129 Resp: 48590

Ion	Ratio	Lower	Upper
129	100		
127	77.5	38.3	114.8





#61
1,2-Dibromoethane
Concen: 19.746 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion:107 Resp: 3544

Ion	Ratio	Lower	Upper
107	100		
109	92.4	74.0	111.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
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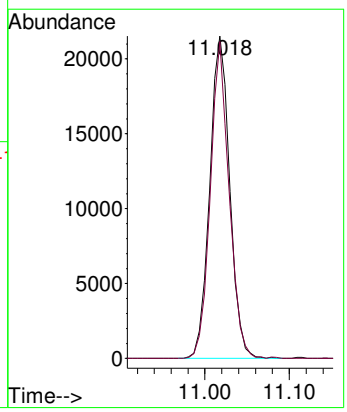
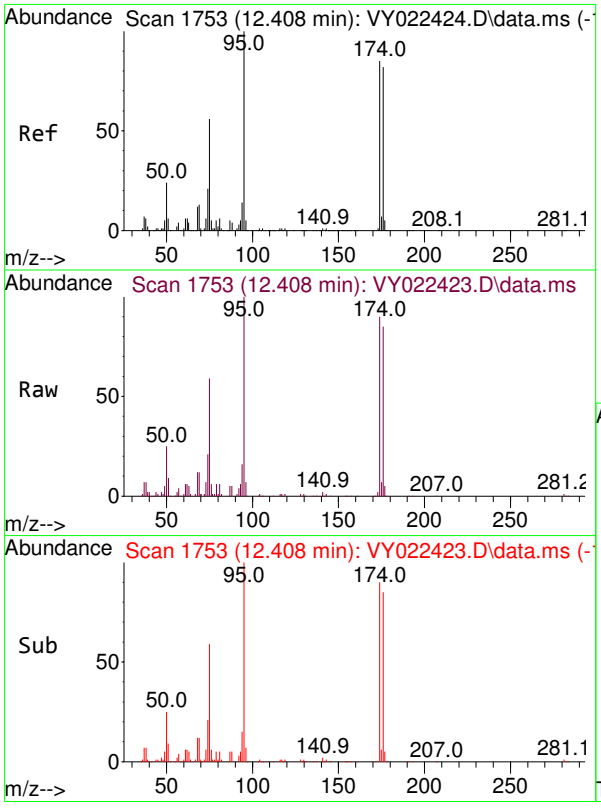
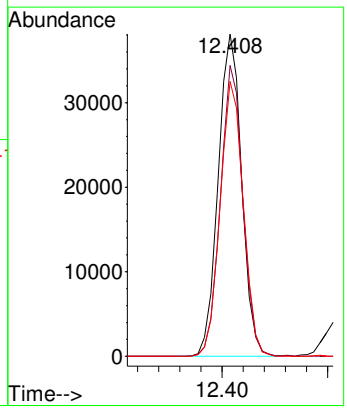


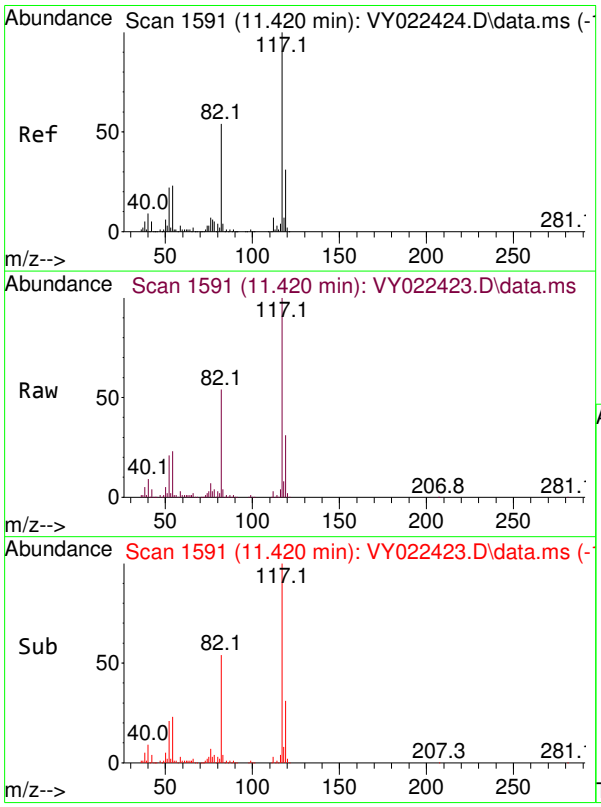


#62
4-Bromofluorobenzene
Concen: 19.112 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 95 Resp: 59022

Ion	Ratio	Lower	Upper
95	100		
174	86.3	0.0	171.6
176	84.2	0.0	164.6





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion:117 Resp: 35889

Ion	Ratio	Lower	Upper
117	100		
82	53.7	43.3	64.9
119	31.3	24.5	36.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
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Reviewed By :Amit Patel 05/28/2025
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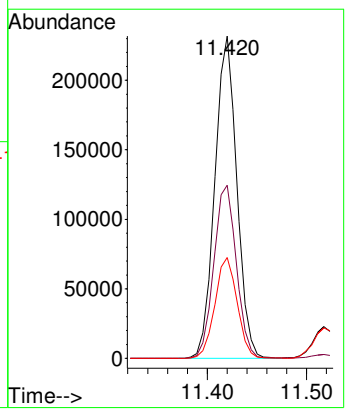
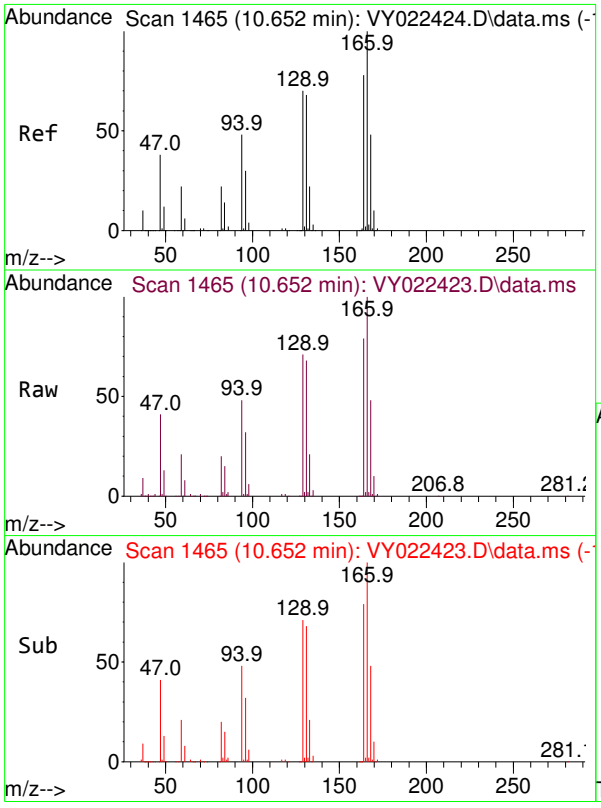
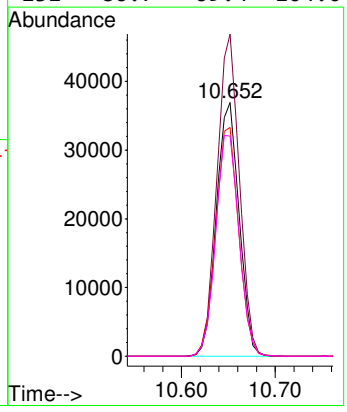


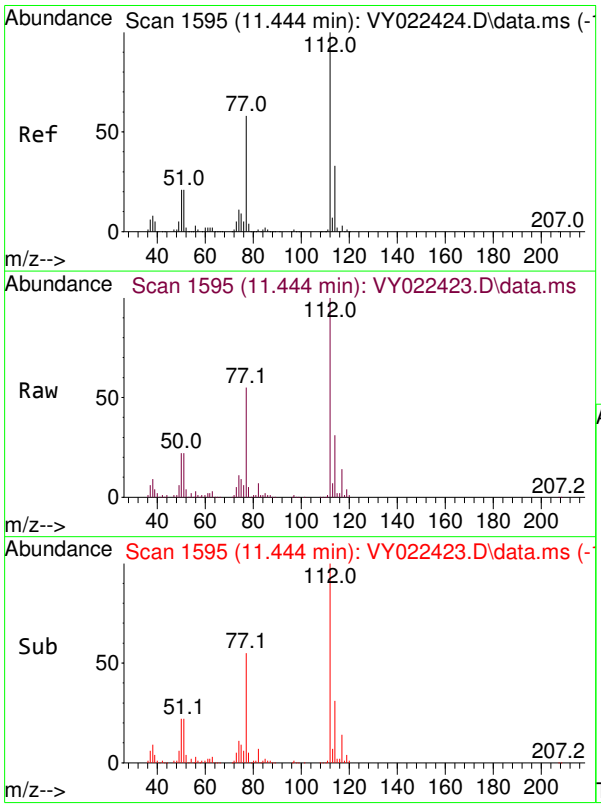


#64
Tetrachloroethene
Concen: 20.357 ug/l
RT: 10.652 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion:164 Resp: 62224

Ion	Ratio	Lower	Upper
164	100		
166	127.0	102.0	153.0
129	90.2	71.3	106.9
131	86.7	69.4	104.0





#65
Chlorobenzene
Concen: 19.709 ug/l
RT: 11.444 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion:112 Resp: 15082

Ion	Ratio	Lower	Upper
112	100		
114	31.1	26.1	39.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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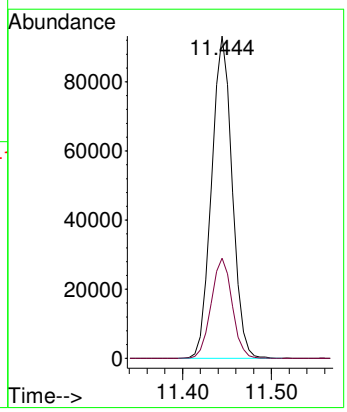
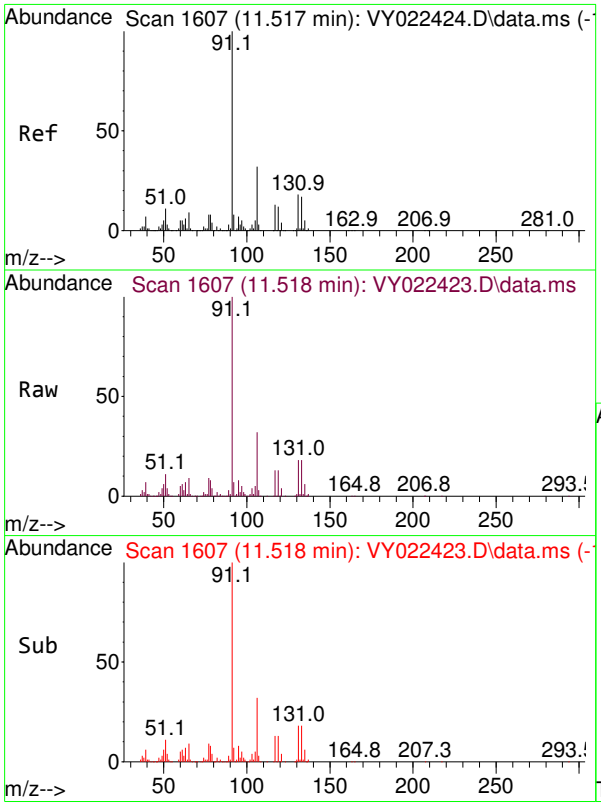
Supervised By :Mahesh Dadoda 05/28/2025

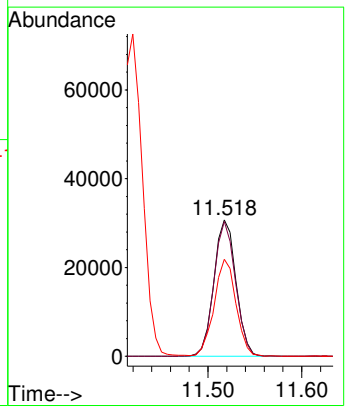


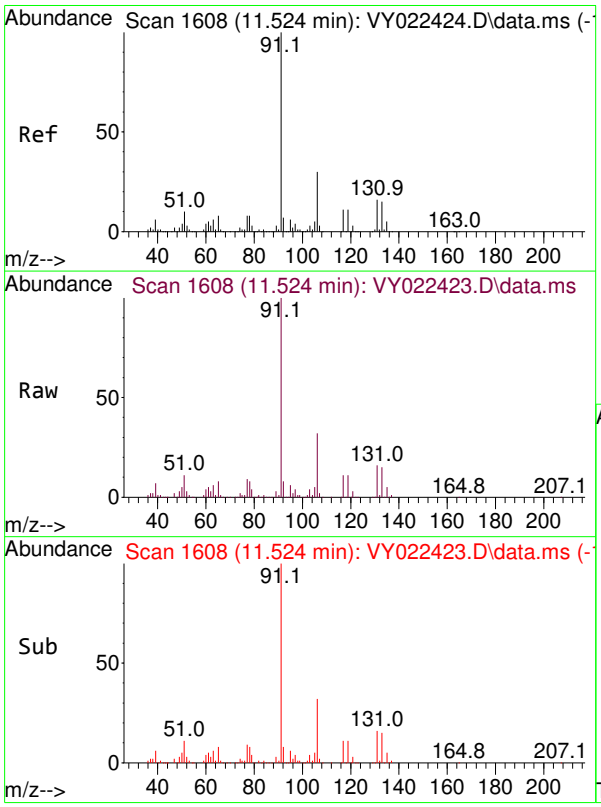


#66
1,1,1,2-Tetrachloroethane
Concen: 19.371 ug/l
RT: 11.518 min Scan# 1607
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion:131 Resp: 50226

Ion	Ratio	Lower	Upper
131	100		
133	96.4	46.6	139.8
119	70.4	33.3	99.8





#67
Ethyl Benzene
Concen: 19.399 ug/l
RT: 11.524 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 91 Resp: 27565

Ion	Ratio	Lower	Upper
91	100		
106	31.6	24.4	36.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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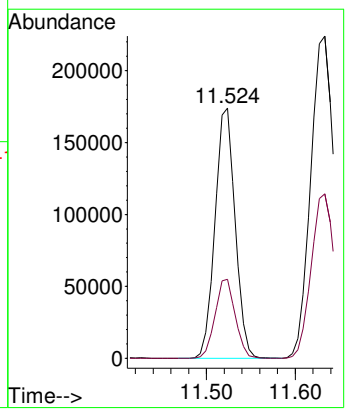
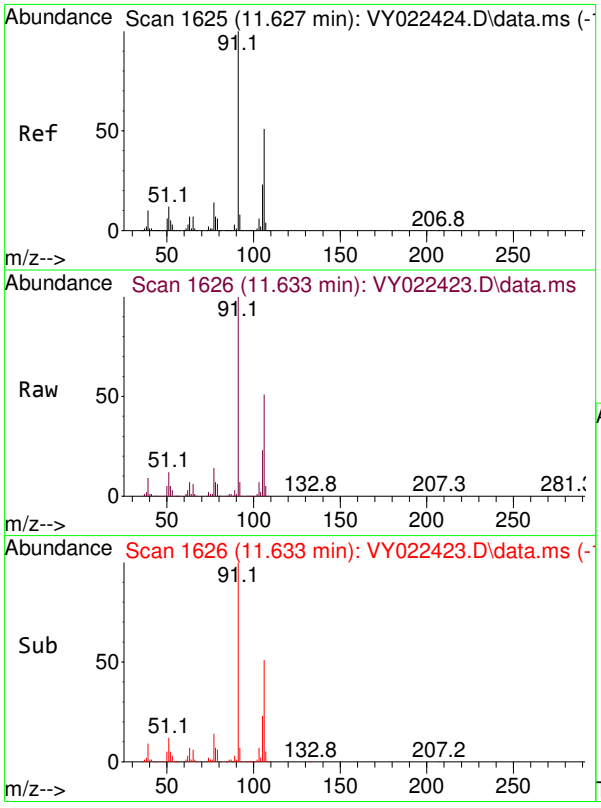
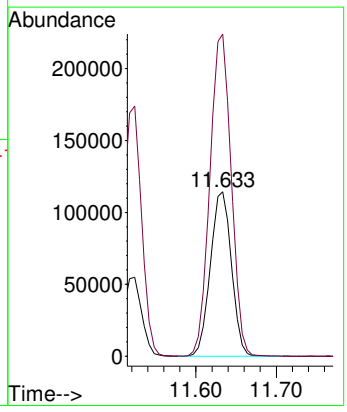


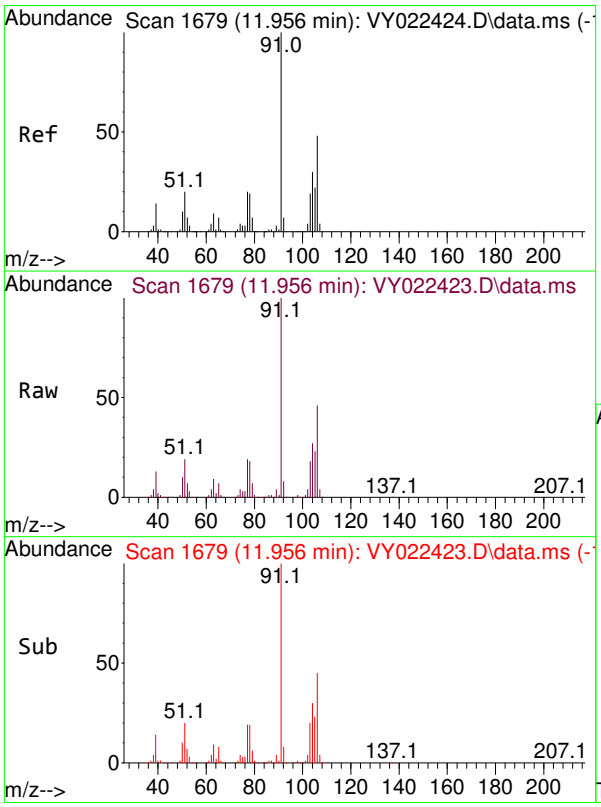


#68
m/p-Xylenes
Concen: 38.557 ug/l
RT: 11.633 min Scan# 1626
Delta R.T. 0.006 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion:106 Resp: 207724

Ion	Ratio	Lower	Upper
106	100		
91	198.7	159.8	239.8

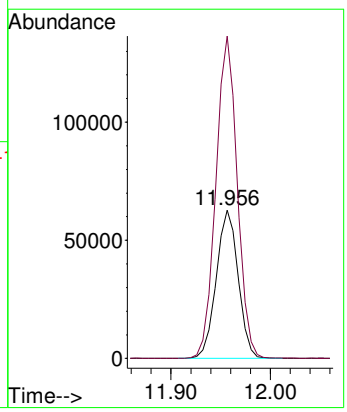




#69
o-Xylene
Concen: 19.075 ug/l
RT: 11.956 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion:106 Resp: 9658

Ion	Ratio	Lower	Upper
106	100		
91	212.9	106.3	318.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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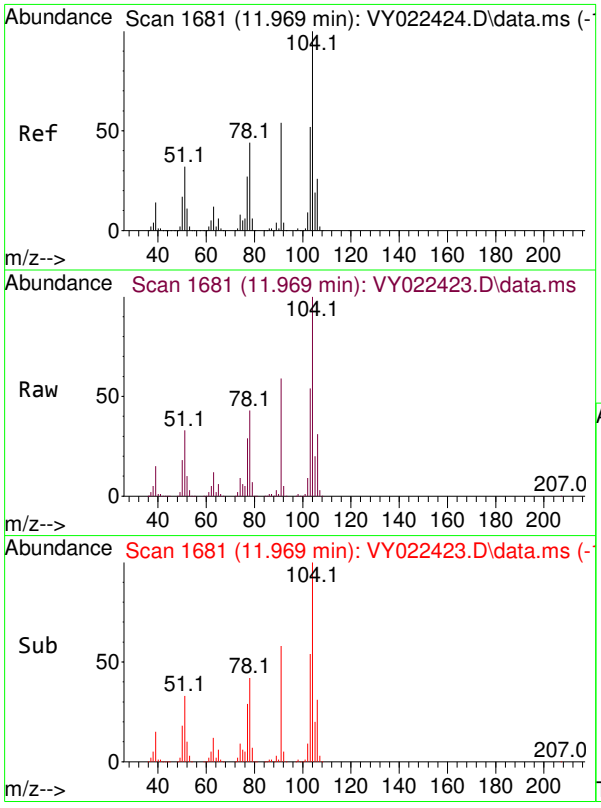
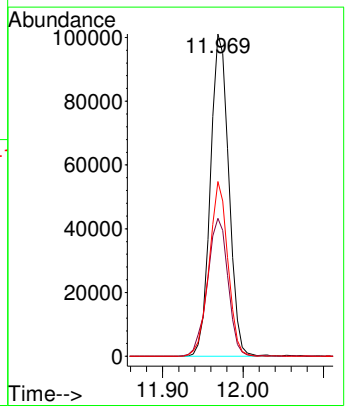
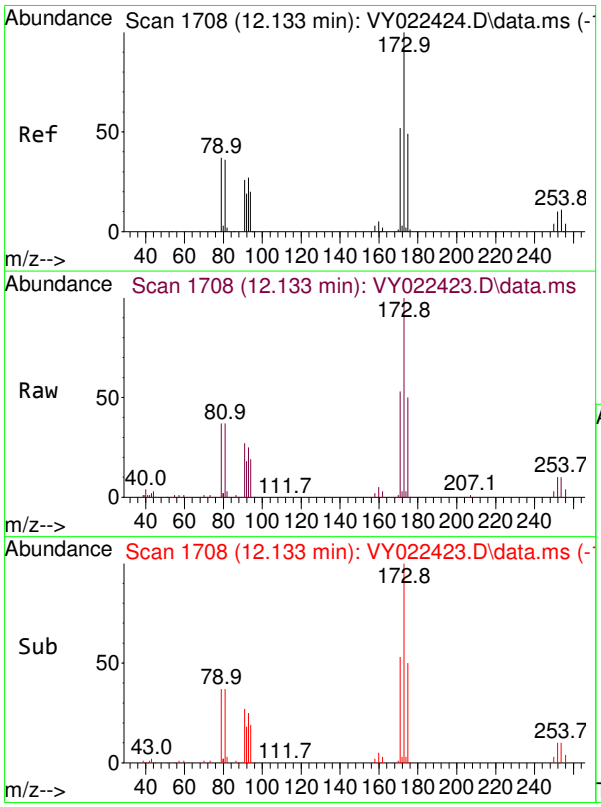


#70
Styrene
Concen: 19.023 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion:104 Resp: 160384

Ion	Ratio	Lower	Upper
104	100		
78	47.9	38.8	58.2
103	55.4	43.4	65.2





#71
Bromoform
Concen: 19.415 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion:173 Resp: 2636

Ion	Ratio	Lower	Upper
173	100		
175	48.4	24.3	73.0
254	0.2	0.1	0.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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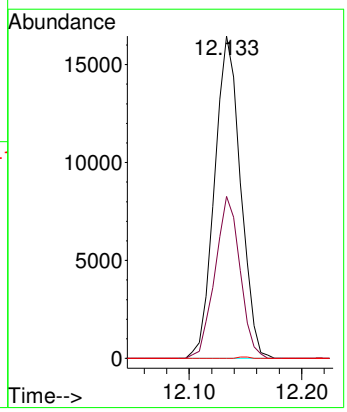
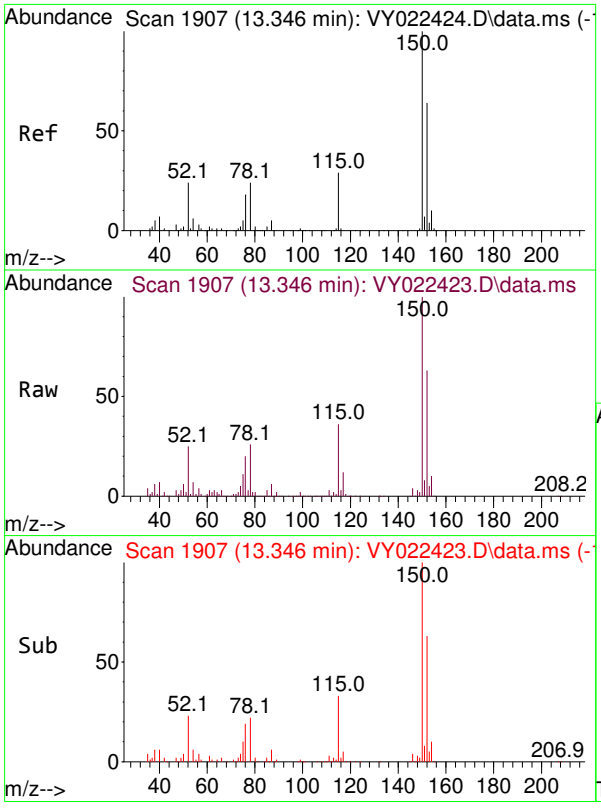
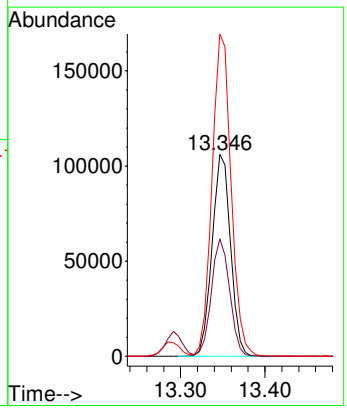


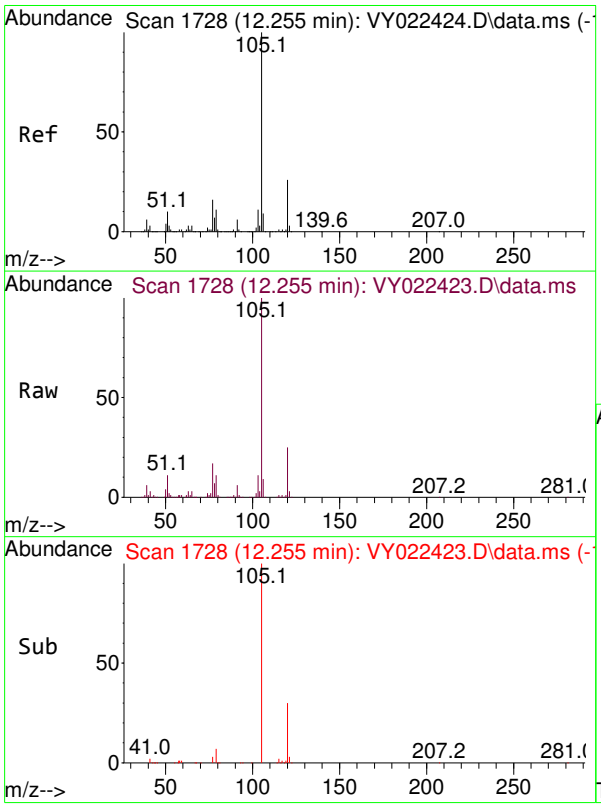


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion:152 Resp: 162048

Ion	Ratio	Lower	Upper
152	100		
115	57.5	28.4	85.3
150	164.9	0.0	345.8





#73
Isopropylbenzene
Concen: 20.053 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion:105 Resp: 25575

Ion	Ratio	Lower	Upper
105	100		
120	26.0	13.2	39.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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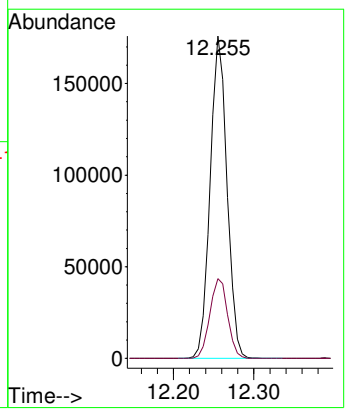
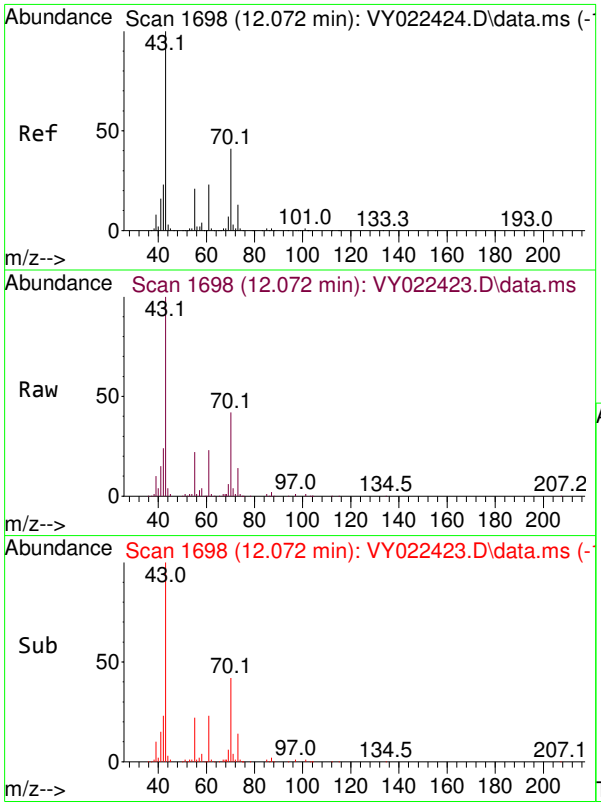
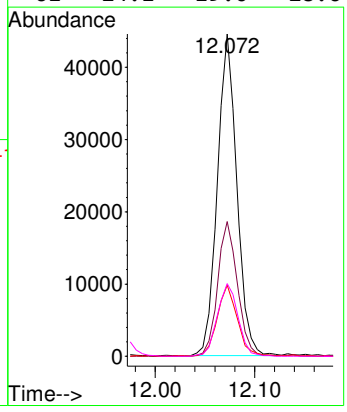


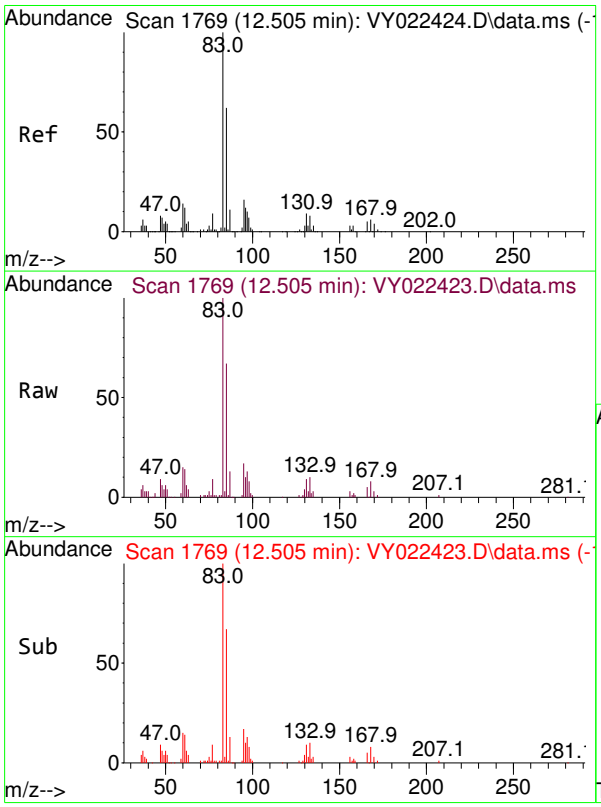


#74
N-amyl acetate
Concen: 19.558 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 43 Resp: 61037

Ion	Ratio	Lower	Upper
43	100		
70	42.7	33.0	49.4
55	23.2	17.5	26.3
61	24.1	19.0	28.6

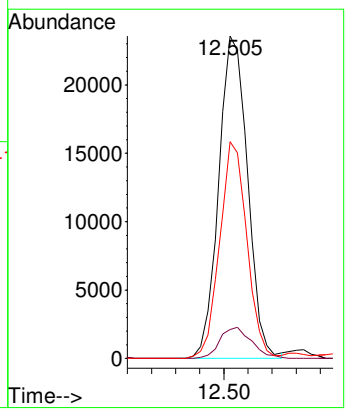




#75
1,1,2,2-Tetrachloroethane
Concen: 19.472 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 83 Resp: 3912

Ion	Ratio	Lower	Upper
83	100		
131	10.6	4.8	14.4
85	63.5	32.0	96.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
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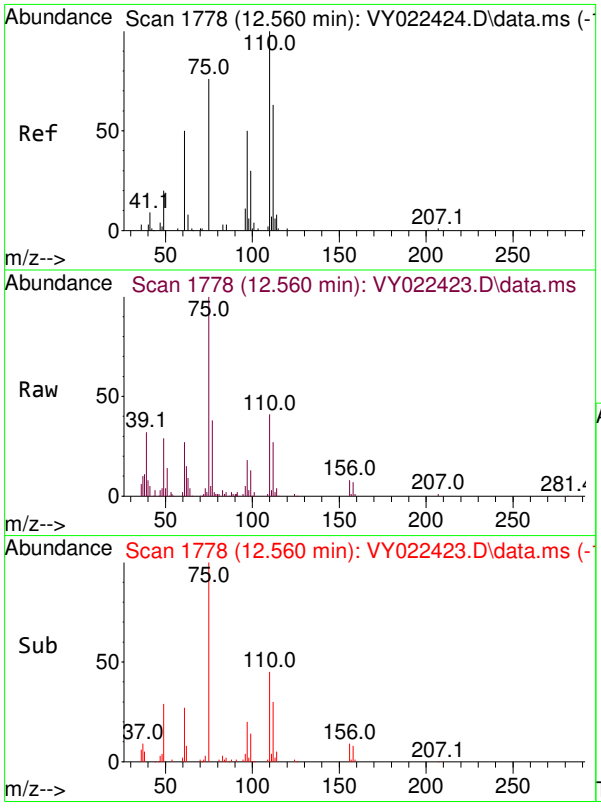
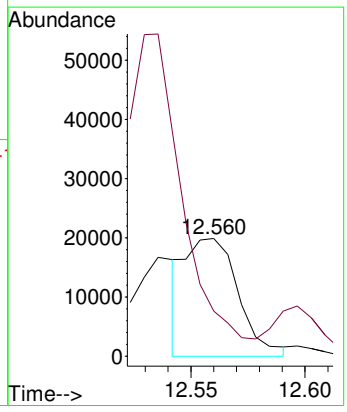
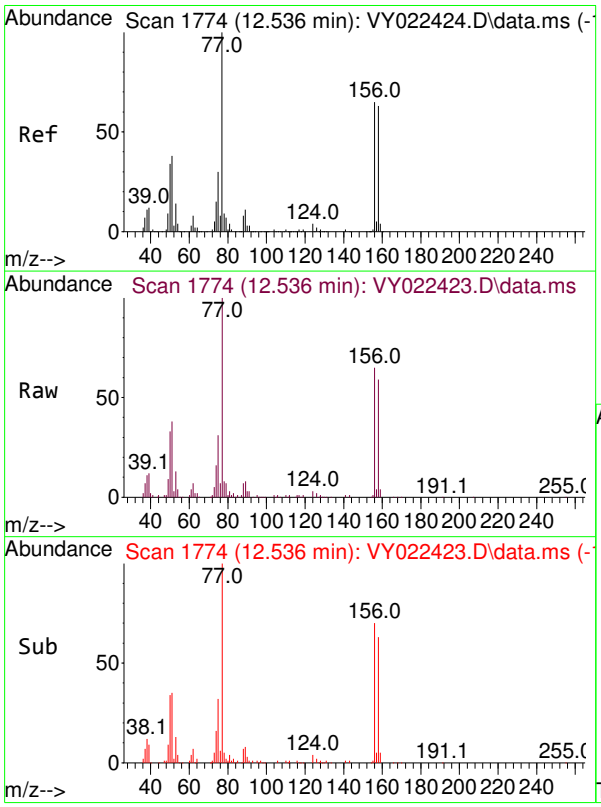


#76
1,2,3-Trichloropropane
Concen: 12.094 ug/l m
RT: 12.560 min Scan# 1778
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 75 Resp: 32290

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0





#77
Bromobenzene
Concen: 20.273 ug/l
RT: 12.536 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion:156 Resp: 5564

Ion	Ratio	Lower	Upper
156	100		
77	178.1	91.4	274.2
158	94.6	48.1	144.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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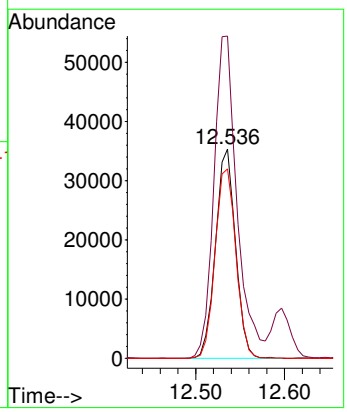
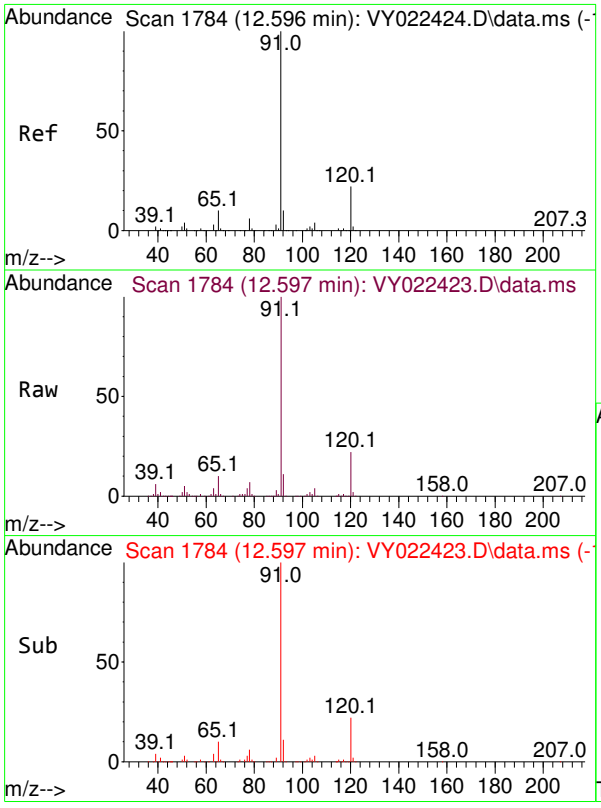
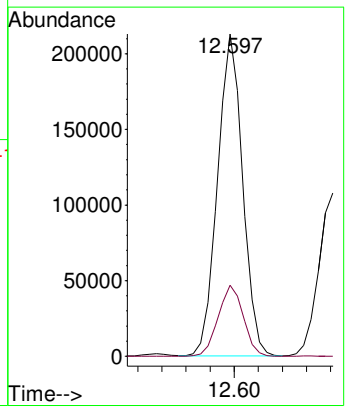


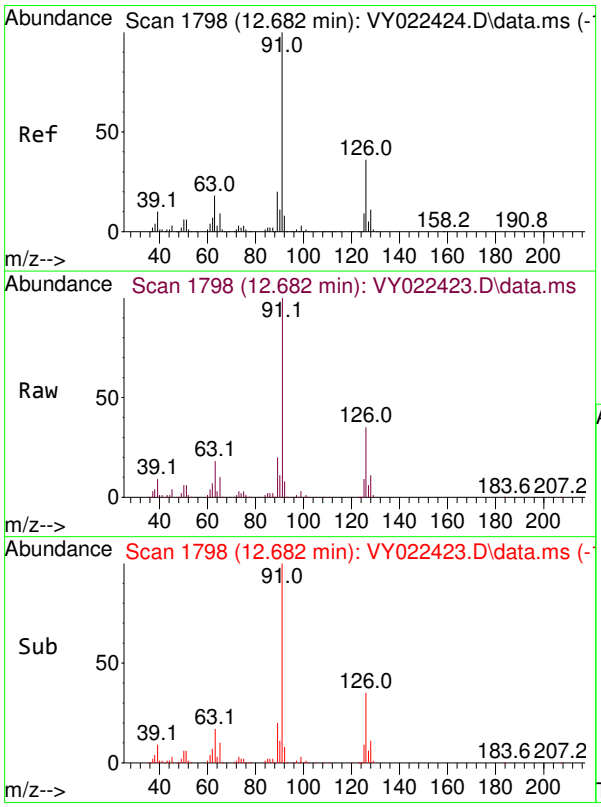


#78
n-propylbenzene
Concen: 20.024 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 91 Resp: 306474

Ion	Ratio	Lower	Upper
91	100		
120	22.2	11.2	33.5





#79
2-Chlorotoluene
Concen: 19.752 ug/l
RT: 12.682 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 91 Resp: 16364

Ion	Ratio	Lower	Upper
91	100		
126	35.6	17.4	52.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

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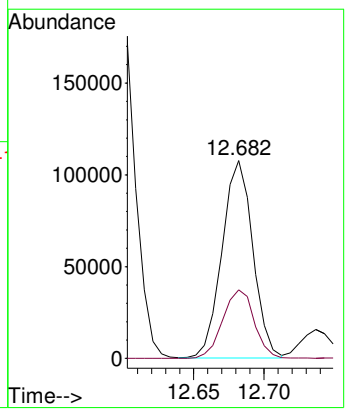
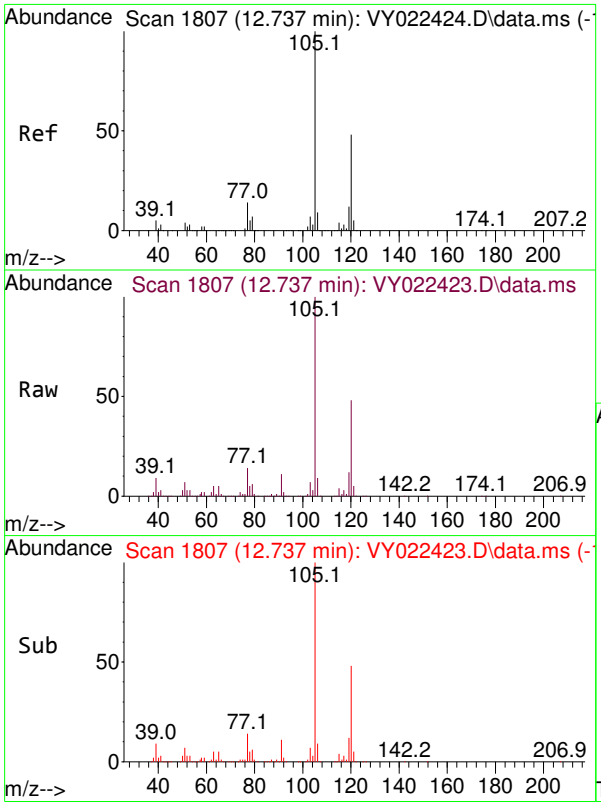
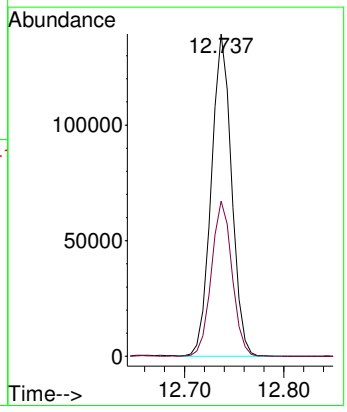


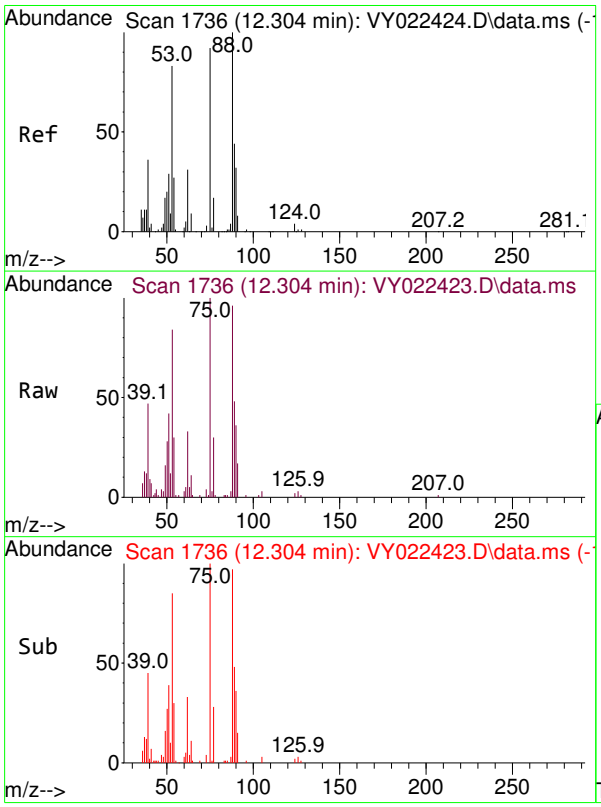


#80
1,3,5-Trimethylbenzene
Concen: 19.944 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion:105 Resp: 198748

Ion	Ratio	Lower	Upper
105	100		
120	49.0	24.3	73.0





#81
trans-1,4-Dichloro-2-butene
Concen: 19.863 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 75 Resp: 1425

Ion	Ratio	Lower	Upper
75	100		
53	91.9	75.1	112.7
89	46.2	37.4	56.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
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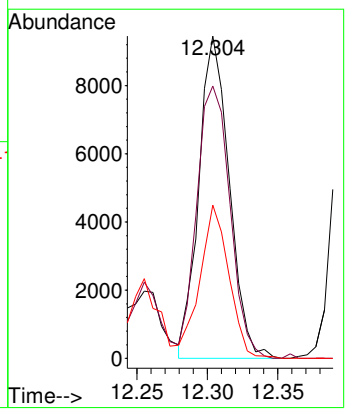
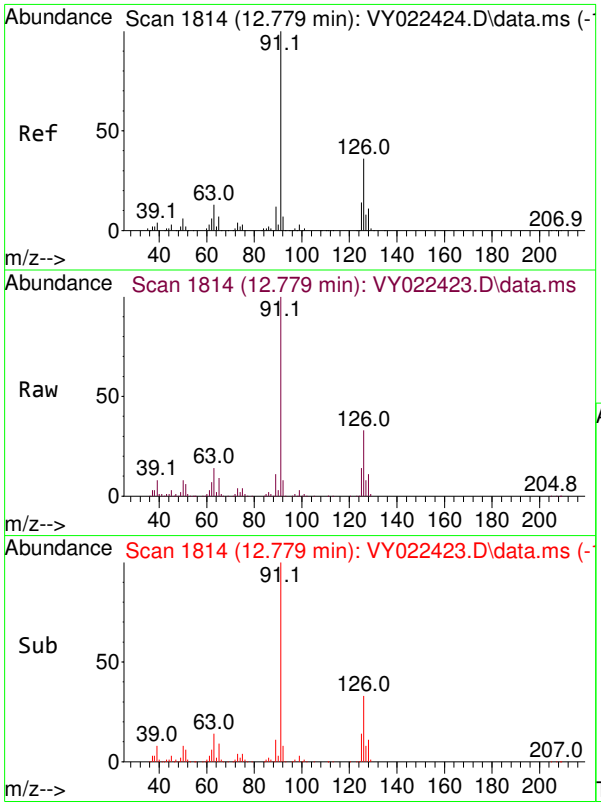
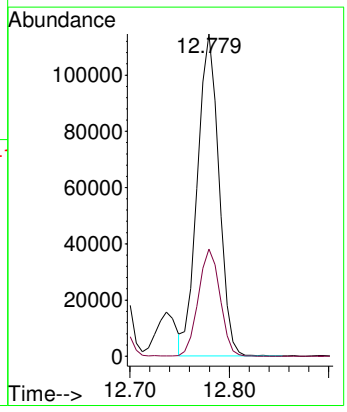


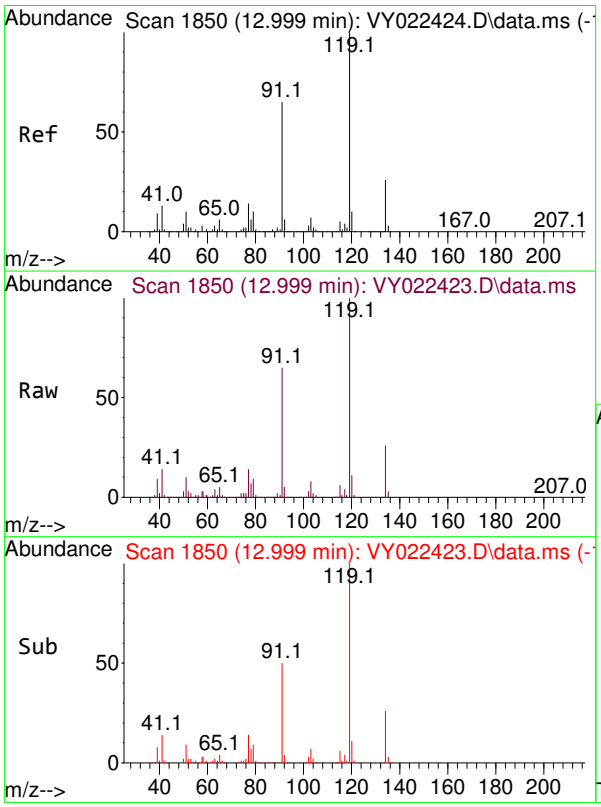


#82
4-Chlorotoluene
Concen: 20.140 ug/l
RT: 12.779 min Scan# 1814
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 91 Resp: 171858

Ion	Ratio	Lower	Upper
91	100		
126	33.7	17.2	51.6





#83
tert-Butylbenzene
Concen: 19.975 ug/l
RT: 12.999 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

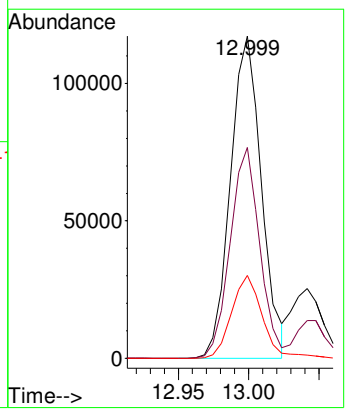
Tgt Ion:119 Resp: 17984

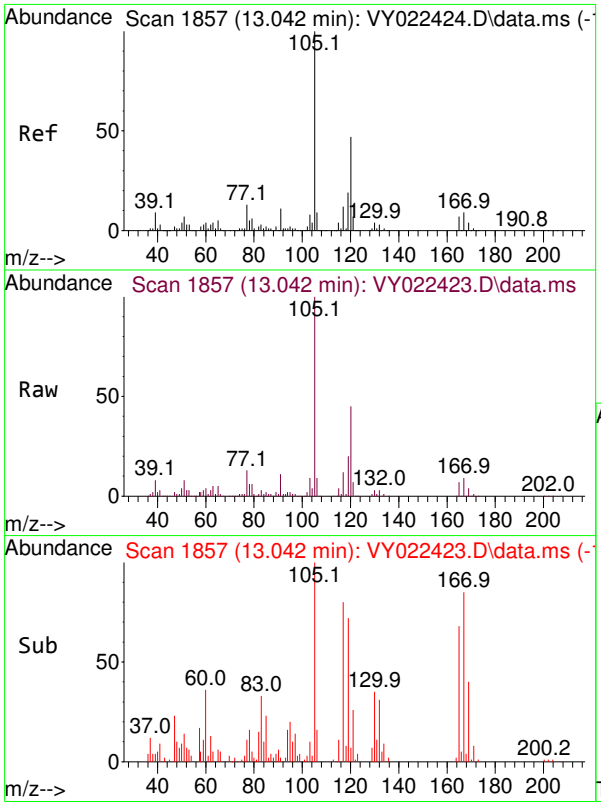
Ion	Ratio	Lower	Upper
119	100		
91	62.3	31.8	95.3
134	25.7	13.0	38.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

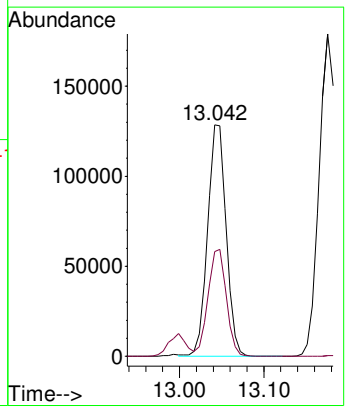


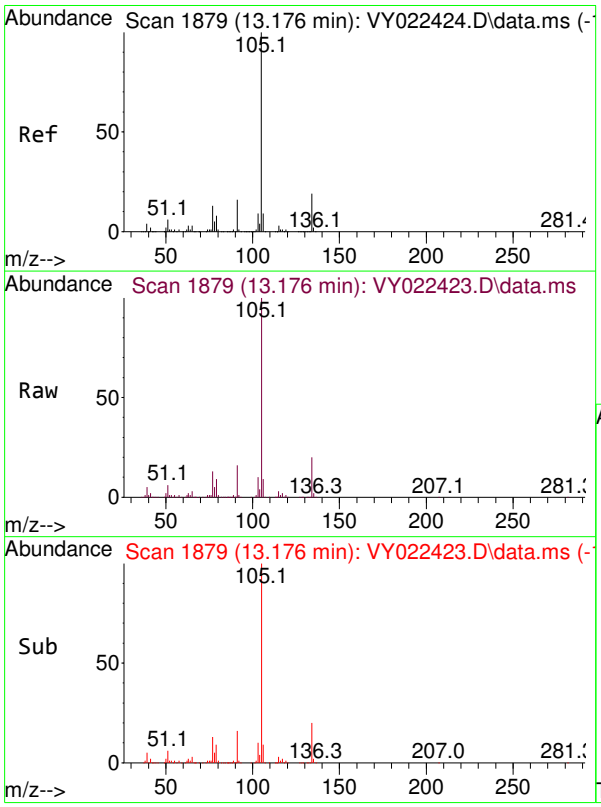


#84
1,2,4-Trimethylbenzene
Concen: 19.640 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion:105 Resp: 196951

Ion	Ratio	Lower	Upper
105	100		
120	45.6	22.9	68.5





#85
sec-Butylbenzene
Concen: 19.753 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

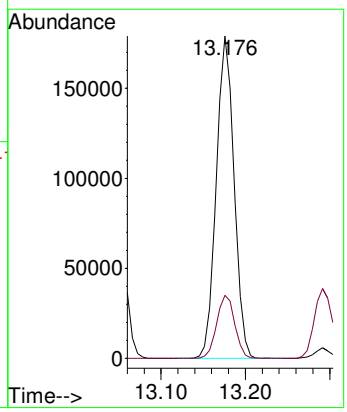
Tgt Ion:105 Resp: 26374

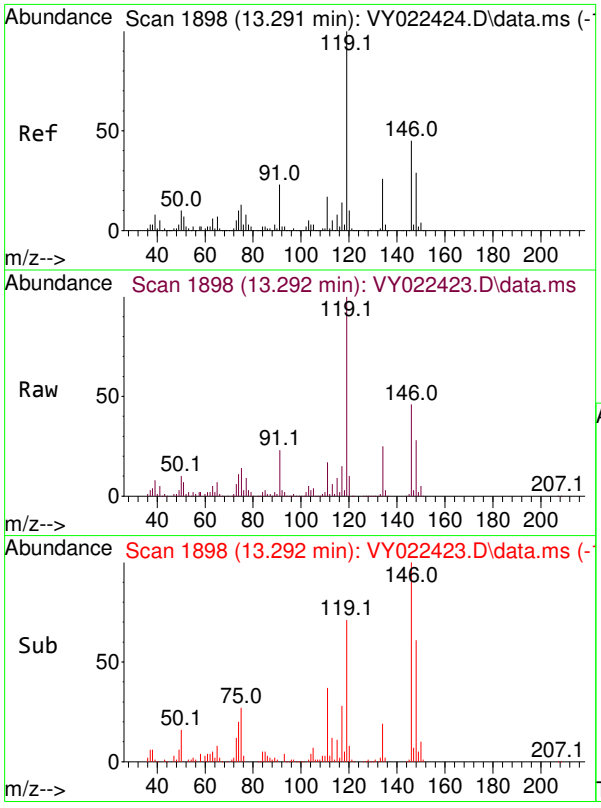
Ion	Ratio	Lower	Upper
105	100		
134	19.9	9.7	29.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

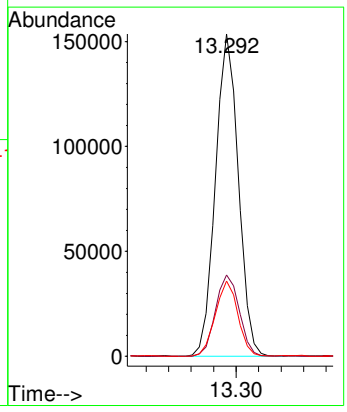


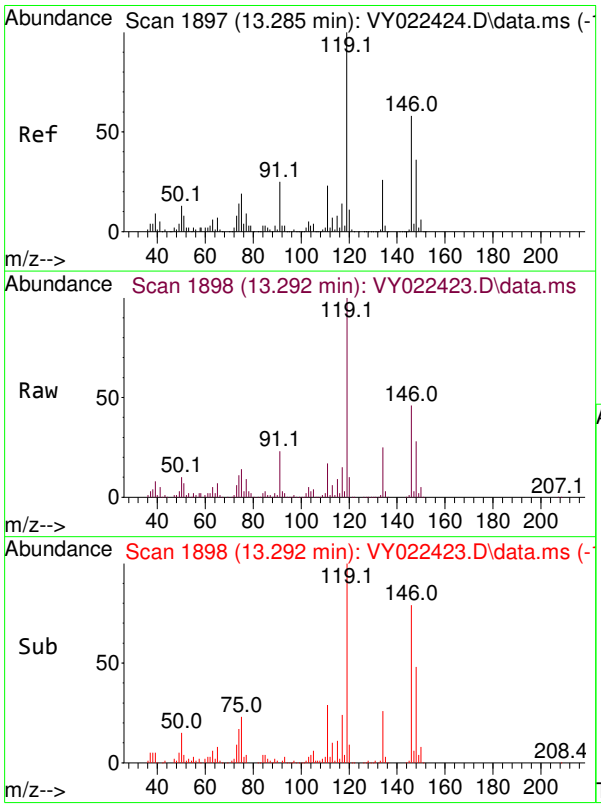


#86
p-Isopropyltoluene
Concen: 19.393 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion:119 Resp: 216227

Ion	Ratio	Lower	Upper
119	100		
134	26.3	13.0	39.0
91	23.1	11.6	34.8





#87
1,3-Dichlorobenzene
Concen: 19.644 ug/l
RT: 13.292 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

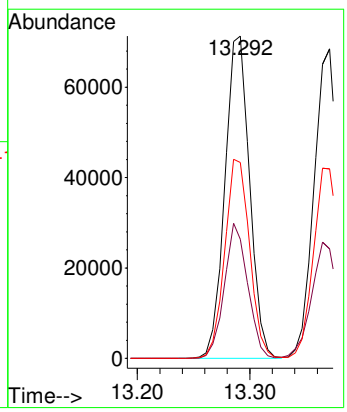
Tgt Ion:146 Resp: 10847

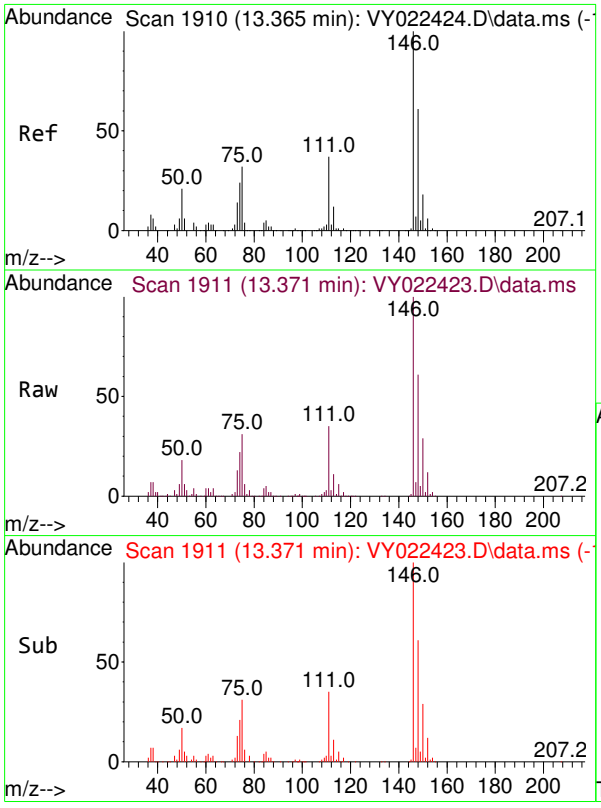
Ion	Ratio	Lower	Upper
146	100		
111	39.6	19.6	58.8
148	62.3	31.7	95.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

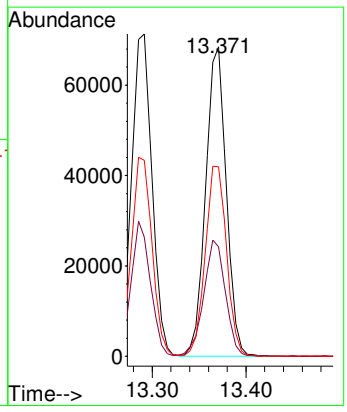


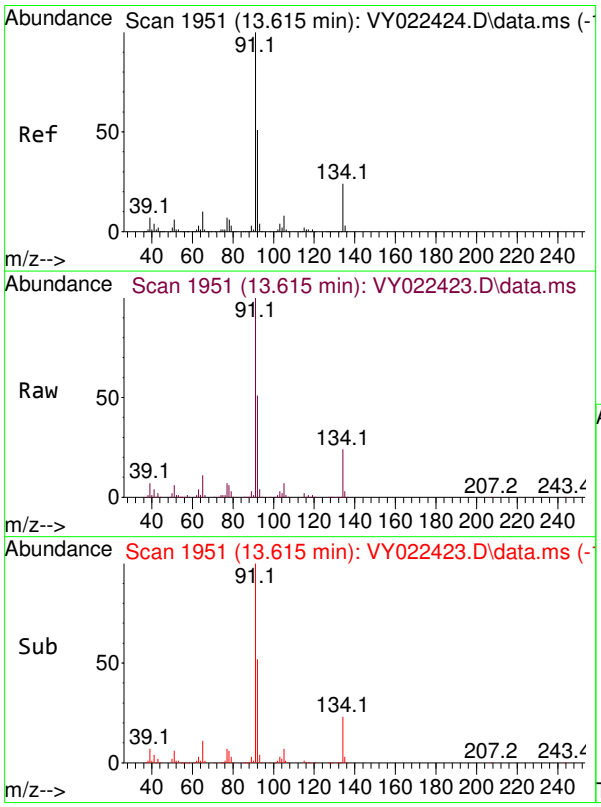


#88
1,4-Dichlorobenzene
Concen: 19.845 ug/l
RT: 13.371 min Scan# 1911
Delta R.T. 0.006 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion:146 Resp: 104788

Ion	Ratio	Lower	Upper
146	100		
111	39.8	18.7	56.1
148	63.6	31.4	94.3





#89
n-Butylbenzene
Concen: 19.768 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

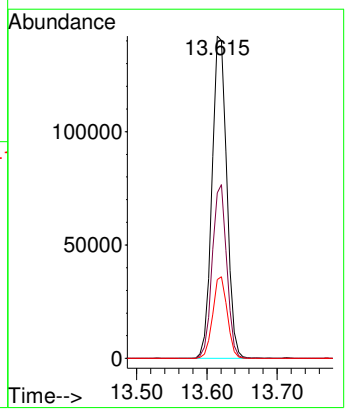
Tgt Ion: 91 Resp: 20665

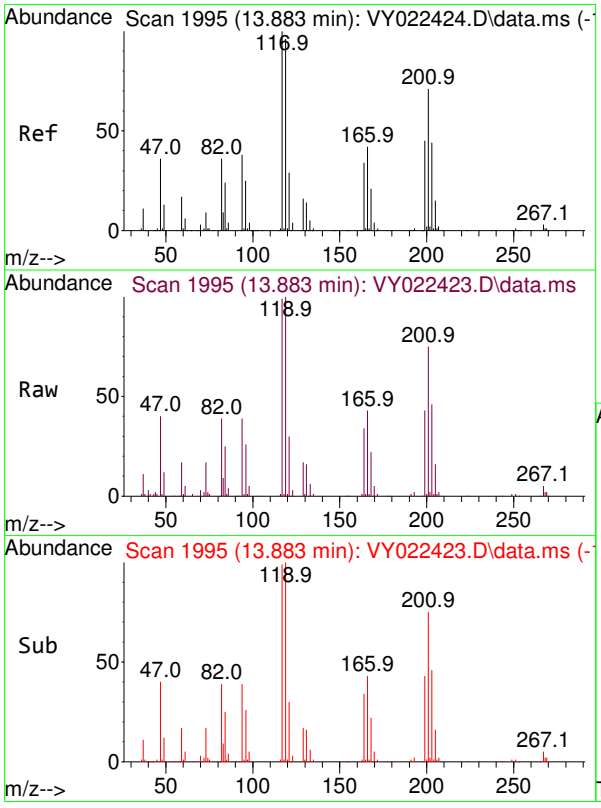
Ion	Ratio	Lower	Upper
91	100		
92	52.9	25.9	77.6
134	24.8	12.4	37.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

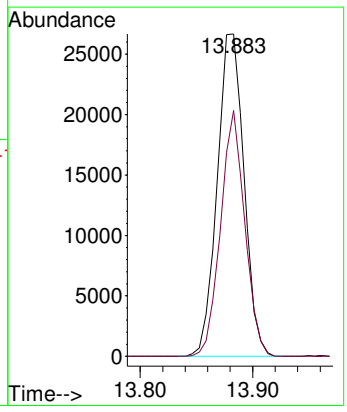


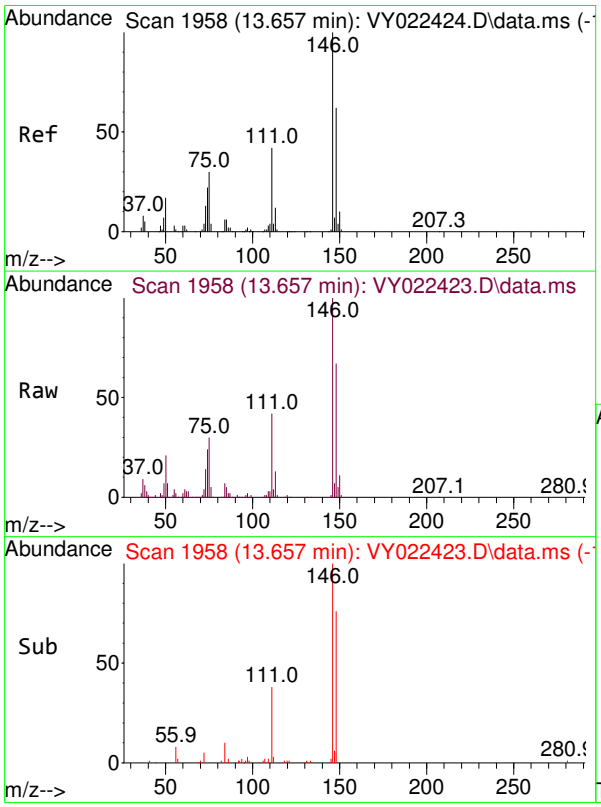


#90
Hexachloroethane
Concen: 19.857 ug/l
RT: 13.883 min Scan# 1995
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion:117 Resp: 44059

Ion	Ratio	Lower	Upper
117	100		
201	68.7	35.0	105.0

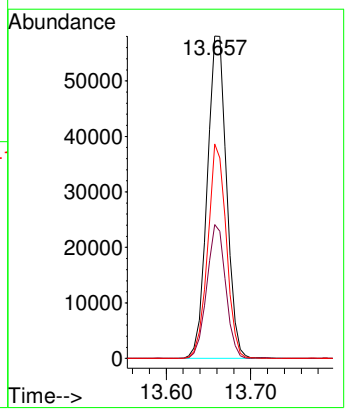




#91
1,2-Dichlorobenzene
Concen: 20.103 ug/l
RT: 13.657 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion:146 Resp: 9272

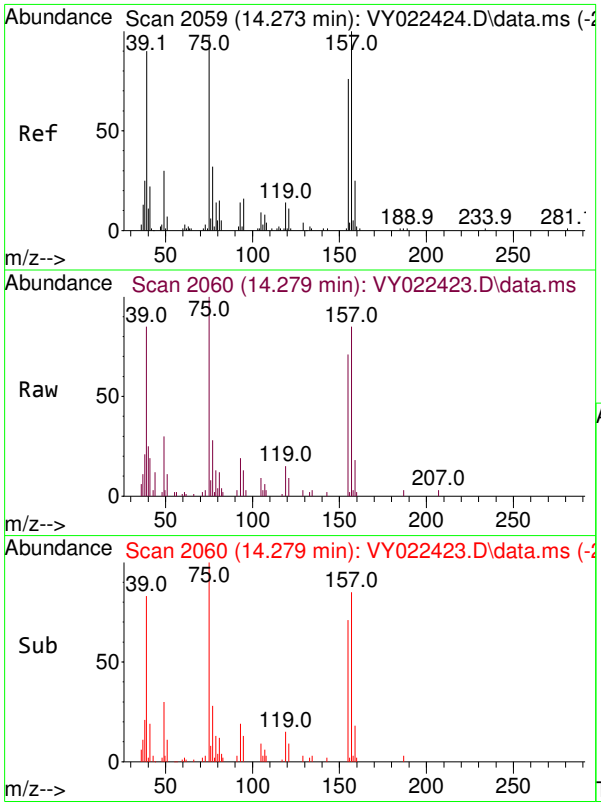
Ion	Ratio	Lower	Upper
146	100		
111	40.5	20.5	61.6
148	63.5	31.9	95.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

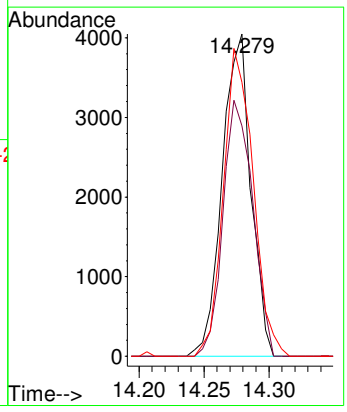
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

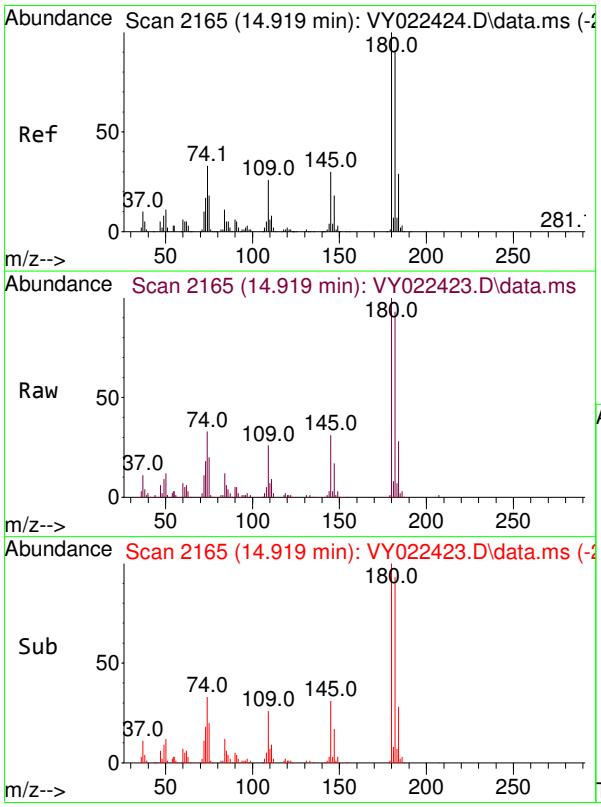


#92
1,2-Dibromo-3-Chloropropane
Concen: 20.016 ug/l
RT: 14.279 min Scan# 2060
Delta R.T. 0.006 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 75 Resp: 6215

Ion	Ratio	Lower	Upper
75	100		
155	82.5	42.3	126.8
157	98.9	54.4	163.3

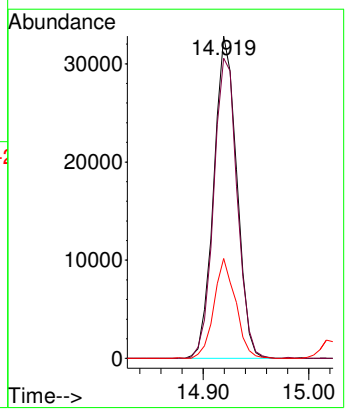




#93
1,2,4-Trichlorobenzene
Concen: 19.535 ug/l
RT: 14.919 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion:180 Resp: 4995

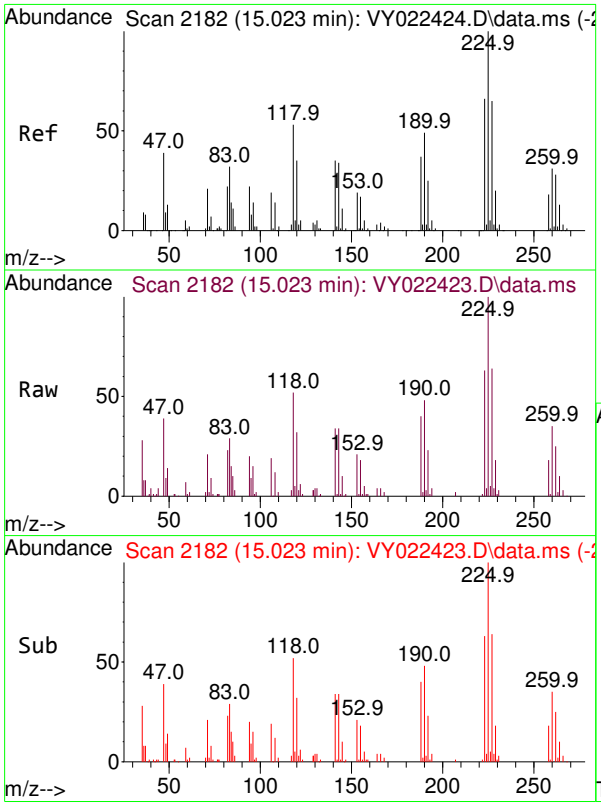
Ion	Ratio	Lower	Upper
180	100		
182	95.0	46.2	138.6
145	29.2	14.2	42.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

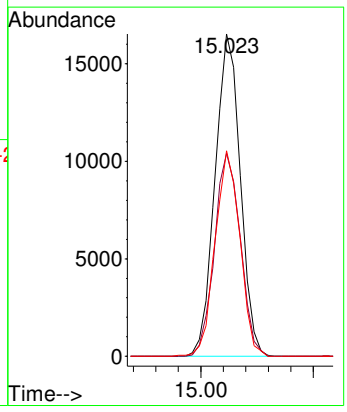
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

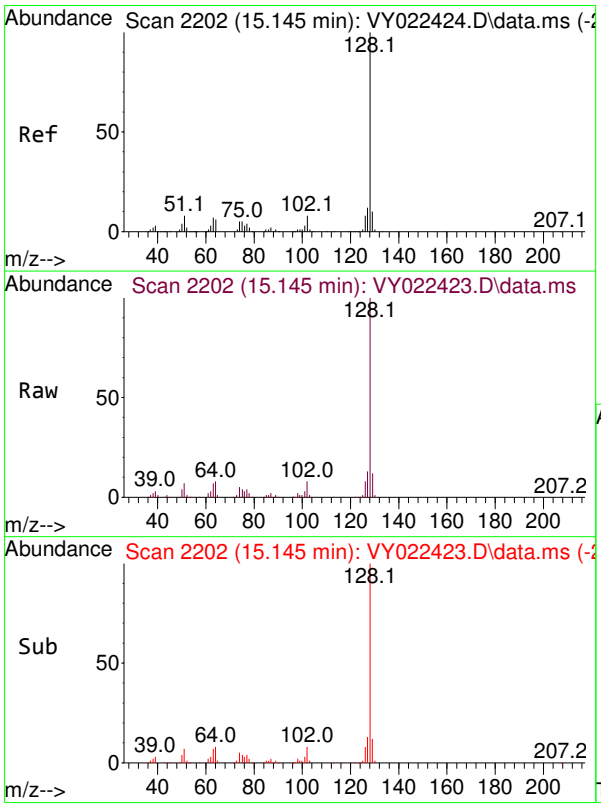


#94
Hexachlorobutadiene
Concen: 19.164 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion:225 Resp: 25718

Ion	Ratio	Lower	Upper
225	100		
223	64.5	32.6	97.7
227	62.5	33.0	99.0





#95
Naphthalene
Concen: 18.870 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

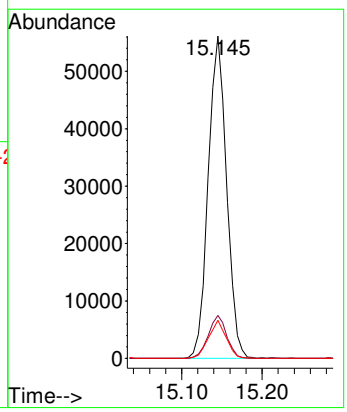
Tgt Ion:128 Resp: 8920

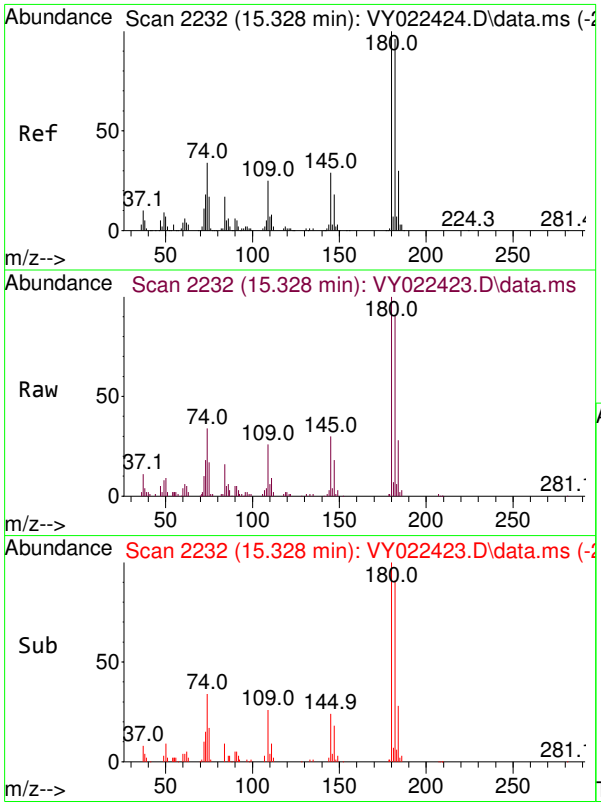
Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.2	15.4
129	11.4	8.5	12.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

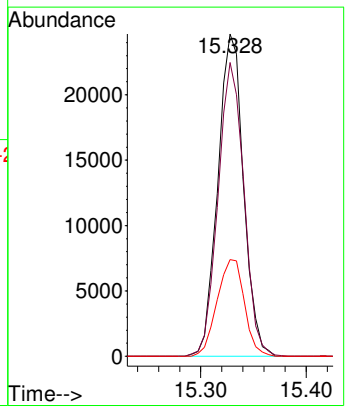




#96
1,2,3-Trichlorobenzene
Concen: 19.919 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion:180 Resp: 41774

Ion	Ratio	Lower	Upper
180	100		
182	91.9	48.1	144.3
145	31.9	14.9	44.5



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022424.D
Acq On : 27 May 2025 09:59
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

Quant Time: May 28 09:54:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 09:30:53 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	251462	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	421648	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	359387	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	170568	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	133722	50.486	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 100.980%			
35) Dibromofluoromethane	7.640	113	122077	49.438	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 98.880%			
50) Toluene-d8	10.109	98	495900	49.264	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 98.520%			
62) 4-Bromofluorobenzene	12.408	95	149686	49.160	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 98.320%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	106455	44.373	ug/l	100
3) Chloromethane	2.068	50	300767	50.966	ug/l	100
4) Vinyl Chloride	2.202	62	365461	50.977	ug/l	100
5) Bromomethane	2.598	94	320598	49.210	ug/l	100
6) Chloroethane	2.739	64	255218	54.479	ug/l	100
7) Trichlorofluoromethane	3.056	101	300911	49.748	ug/l	100
8) Diethyl Ether	3.458	74	69604	49.906	ug/l	100
9) 1,1,2-Trichlorotrifluo...	3.818	101	130878	49.320	ug/l	100
10) Methyl Iodide	4.013	142	162763	54.366	ug/l	100
11) Tert butyl alcohol	4.884	59	44670	239.257	ug/l	100
12) 1,1-Dichloroethene	3.793	96	128456	48.757	ug/l	100
13) Acrolein	3.659	56	71175	254.433	ug/l	100
14) Allyl chloride	4.385	41	197586	49.856	ug/l	100
15) Acrylonitrile	5.067	53	140126	249.258	ug/l	100
16) Acetone	3.879	43	106570	244.853	ug/l	100
17) Carbon Disulfide	4.110	76	415611	49.433	ug/l	100
18) Methyl Acetate	4.397	43	77552	47.567	ug/l	100
19) Methyl tert-butyl Ether	5.122	73	348604	49.839	ug/l	100
20) Methylene Chloride	4.622	84	137958	44.887	ug/l	100
21) trans-1,2-Dichloroethene	5.116	96	141011	49.026	ug/l	100
22) Diisopropyl ether	6.024	45	433997	49.618	ug/l	100
23) Vinyl Acetate	5.970	43	1262323	251.347	ug/l	100
24) 1,1-Dichloroethane	5.921	63	258190	49.955	ug/l	100
25) 2-Butanone	6.908	43	178390	246.104	ug/l	100
26) 2,2-Dichloropropane	6.890	77	231499	49.466	ug/l	100
27) cis-1,2-Dichloroethene	6.896	96	163879	49.217	ug/l	100
28) Bromochloromethane	7.250	49	110266	51.091	ug/l	100
29) Tetrahydrofuran	7.268	42	119564	247.328	ug/l	100
30) Chloroform	7.427	83	257981	50.655	ug/l	100
31) Cyclohexane	7.701	56	236092	46.340	ug/l	100
32) 1,1,1-Trichloroethane	7.622	97	229531	49.660	ug/l	100
36) 1,1-Dichloropropene	7.841	75	193888	49.482	ug/l	100
37) Ethyl Acetate	6.988	43	84159	50.538	ug/l	100
38) Carbon Tetrachloride	7.823	117	202994	49.731	ug/l	100
39) Methylcyclohexane	9.109	83	258994	49.724	ug/l	100
40) Benzene	8.085	78	586562	50.308	ug/l	100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022424.D
Acq On : 27 May 2025 09:59
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

Quant Time: May 28 09:54:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 09:30:53 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.226	41	49236	22.465	ug/l	90
42) 1,2-Dichloroethane	8.164	62	155379	50.458	ug/l	100
43) Isopropyl Acetate	8.201	43	183642	50.467	ug/l	100
44) Trichloroethene	8.865	130	144611	50.172	ug/l	100
45) 1,2-Dichloropropane	9.146	63	136232	49.730	ug/l	100
46) Dibromomethane	9.231	93	76743	50.148	ug/l	100
47) Bromodichloromethane	9.426	83	195650	49.717	ug/l	100
48) Methyl methacrylate	9.225	41	84239	49.870	ug/l	100
49) 1,4-Dioxane	9.237	88	16708	988.479	ug/l	100
51) 4-Methyl-2-Pentanone	9.999	43	460034	256.225	ug/l	100
52) Toluene	10.176	92	365833	50.235	ug/l	100
53) t-1,3-Dichloropropene	10.396	75	182819	49.875	ug/l	100
54) cis-1,3-Dichloropropene	9.859	75	213990	49.683	ug/l	100
55) 1,1,2-Trichloroethane	10.572	97	96763	50.011	ug/l	100
56) Ethyl methacrylate	10.438	69	143409	51.650	ug/l	100
57) 1,3-Dichloropropane	10.719	76	170799	50.093	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.713	63	352804	254.955	ug/l	100
59) 2-Hexanone	10.761	43	305977	260.045	ug/l	100
60) Dibromochloromethane	10.914	129	127232	51.479	ug/l	100
61) 1,2-Dibromoethane	11.018	107	90642	51.221	ug/l	100
64) Tetrachloroethene	10.652	164	154172	50.371	ug/l	100
65) Chlorobenzene	11.444	112	383505	50.045	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.517	131	132697	51.108	ug/l	100
67) Ethyl Benzene	11.524	91	711551	50.007	ug/l	100
68) m/p-Xylenes	11.627	106	543665	100.776	ug/l	100
69) o-Xylene	11.956	106	254880	50.270	ug/l	100
70) Styrene	11.969	104	430304	50.969	ug/l	100
71) Bromoform	12.133	173	68851	50.626	ug/l	100
73) Isopropylbenzene	12.255	105	660245	49.183	ug/l	100
74) N-amyl acetate	12.072	43	170547	51.919	ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.505	83	104852	49.575	ug/l	100
76) 1,2,3-Trichloropropane	12.560	75	83801m	29.820	ug/l	
77) Bromobenzene	12.536	156	145109	50.230	ug/l	100
78) n-propylbenzene	12.596	91	803233	49.859	ug/l	100
79) 2-Chlorotoluene	12.682	91	429534	49.254	ug/l	100
80) 1,3,5-Trimethylbenzene	12.737	105	525186	50.070	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.304	75	36715	48.597	ug/l	100
82) 4-Chlorotoluene	12.779	91	446697	49.734	ug/l	100
83) tert-Butylbenzene	12.999	119	470027	49.598	ug/l	100
84) 1,2,4-Trimethylbenzene	13.042	105	531189	50.324	ug/l	100
85) sec-Butylbenzene	13.176	105	706452	50.266	ug/l	100
86) p-Isopropyltoluene	13.291	119	592083	50.450	ug/l	100
87) 1,3-Dichlorobenzene	13.285	146	289072	49.731	ug/l	100
88) 1,4-Dichlorobenzene	13.365	146	280006	50.380	ug/l	100
89) n-Butylbenzene	13.615	91	568088	51.626	ug/l	100
90) Hexachloroethane	13.883	117	117444	50.287	ug/l	100
91) 1,2-Dichlorobenzene	13.657	146	241569	49.756	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.273	75	15930	48.741	ug/l	100
93) 1,2,4-Trichlorobenzene	14.919	180	141204	52.462	ug/l	100
94) Hexachlorobutadiene	15.023	225	72391	51.250	ug/l	100
95) Naphthalene	15.145	128	265056	53.269	ug/l	100
96) 1,2,3-Trichlorobenzene	15.328	180	116609	52.826	ug/l	100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022424.D
Acq On : 27 May 2025 09:59
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

Quant Time: May 28 09:54:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 09:30:53 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022424.D
Acq On : 27 May 2025 09:59
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 28 09:54:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 09:30:53 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Amit Patel 05/28/2025
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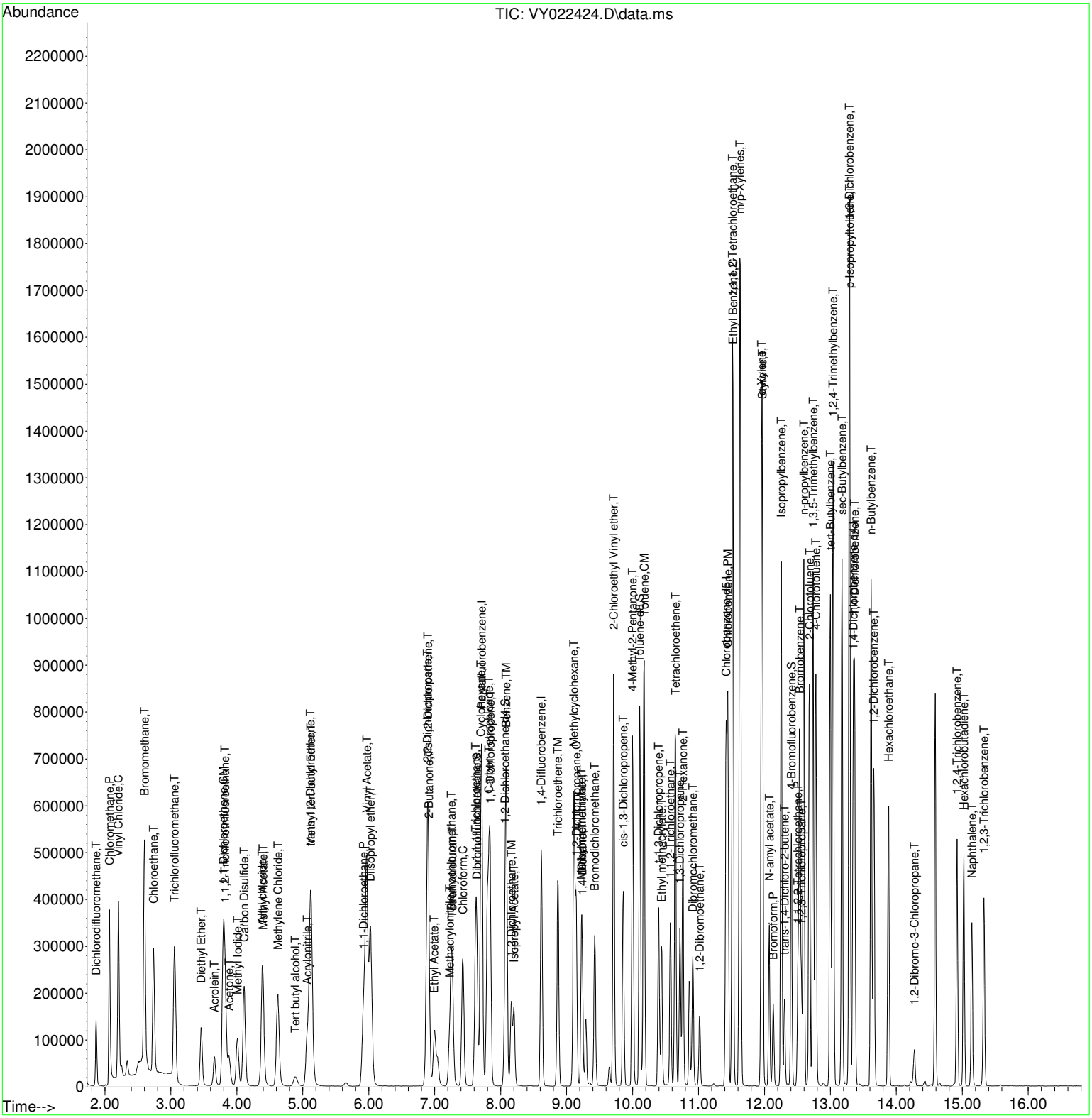
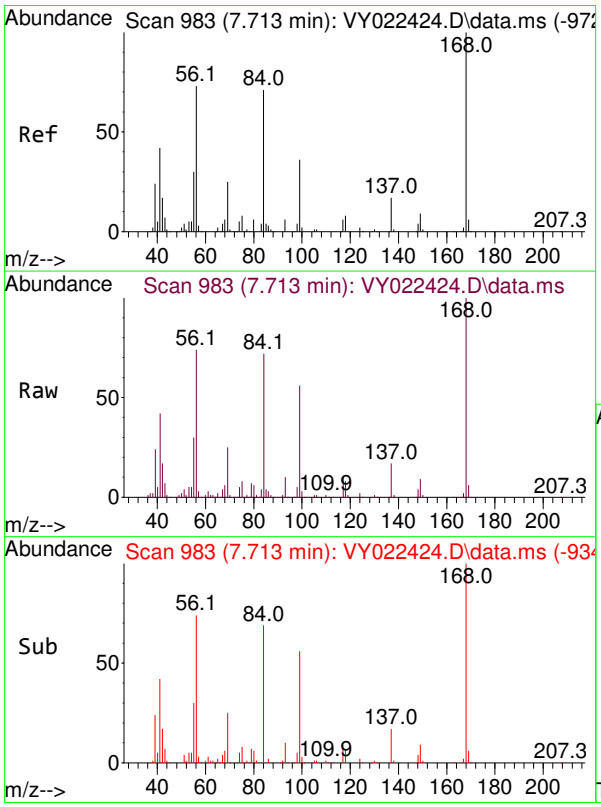




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

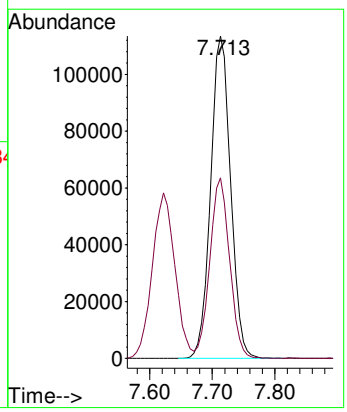
Tgt Ion:168 Resp: 25146

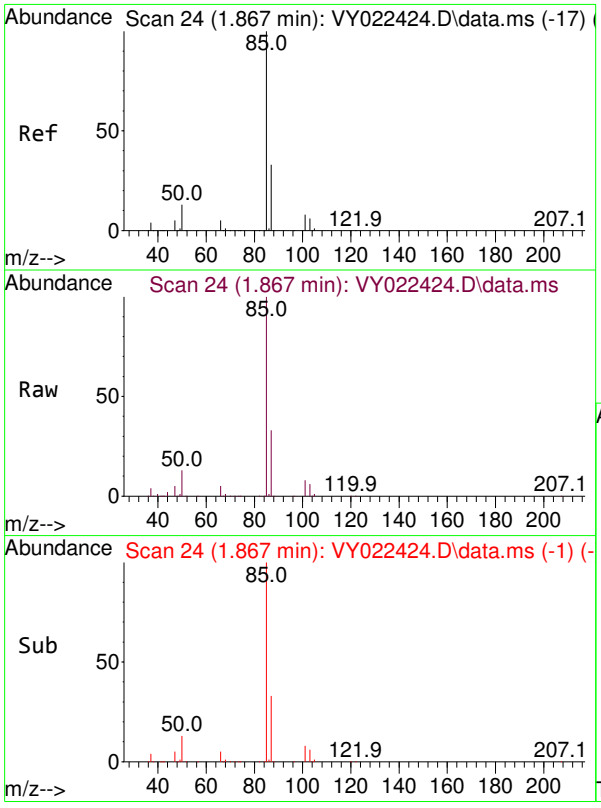
Ion	Ratio	Lower	Upper
168	100		
99	55.9	44.7	67.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

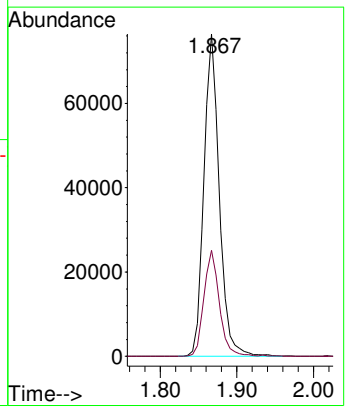


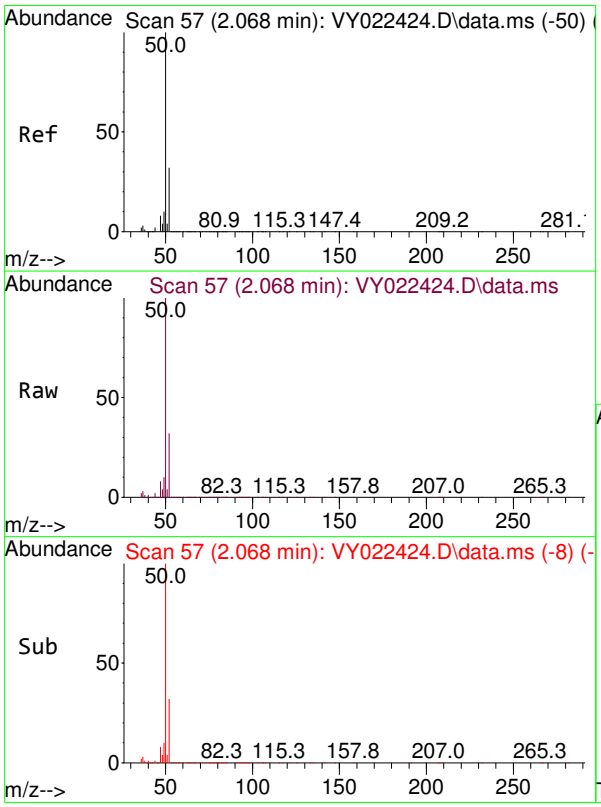


#2
Dichlorodifluoromethane
Concen: 44.373 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 85 Resp: 106455

Ion	Ratio	Lower	Upper
85	100		
87	32.8	16.4	49.2





#3
Chloromethane
Concen: 50.966 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

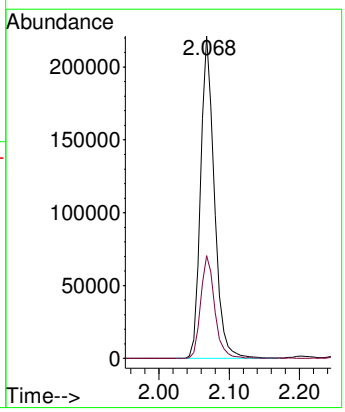
Tgt Ion: 50 Resp: 30076

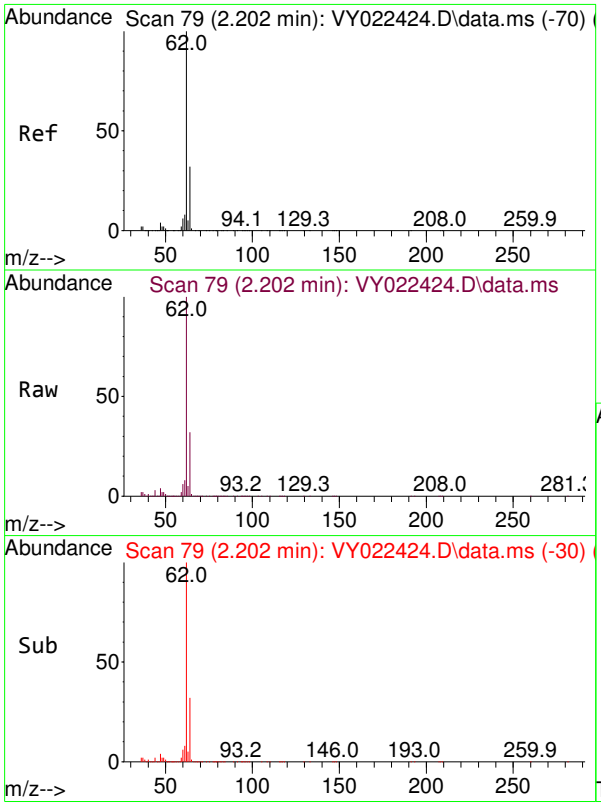
Ion	Ratio	Lower	Upper
50	100		
52	31.9	25.5	38.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

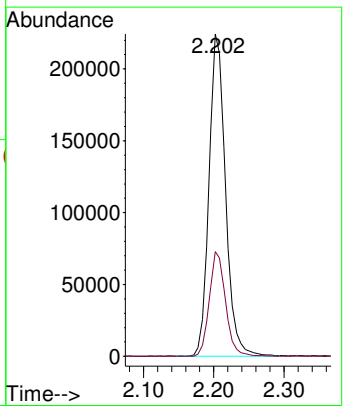


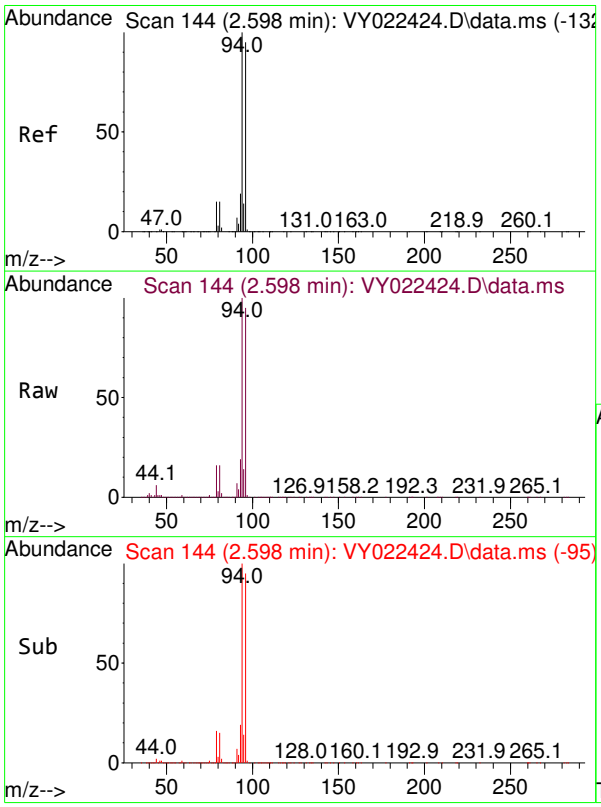


#4
Vinyl Chloride
Concen: 50.977 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 62 Resp: 365461

Ion	Ratio	Lower	Upper
62	100		
64	32.5	26.0	39.0





#5
Bromomethane
Concen: 49.210 ug/l
RT: 2.598 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

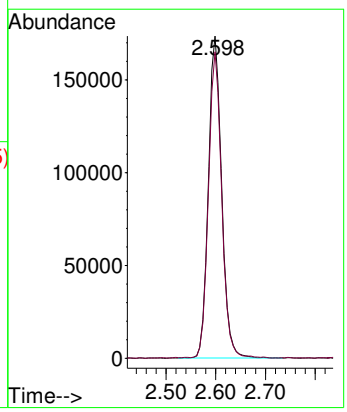
Tgt Ion: 94 Resp: 32059

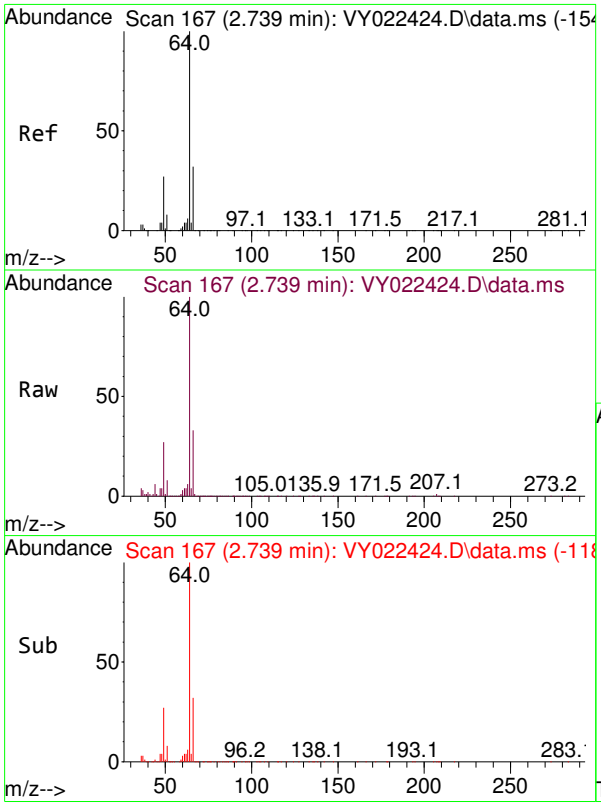
Ion	Ratio	Lower	Upper
94	100		
96	95.0	76.0	114.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

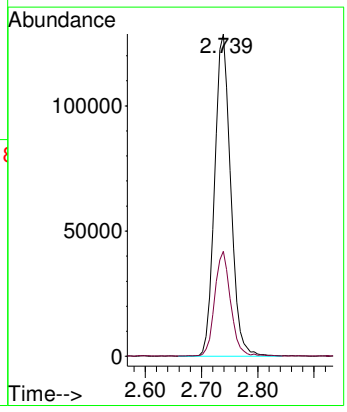


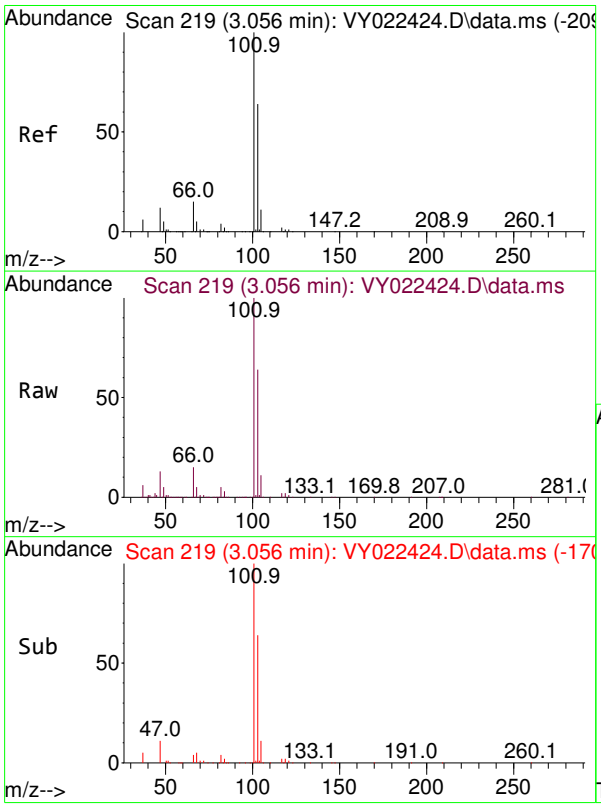


#6
Chloroethane
Concen: 54.479 ug/l
RT: 2.739 min Scan# 167
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 64 Resp: 255218

Ion	Ratio	Lower	Upper
64	100		
66	32.4	25.9	38.9





#7
Trichlorofluoromethane
Concen: 49.748 ug/l
RT: 3.056 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

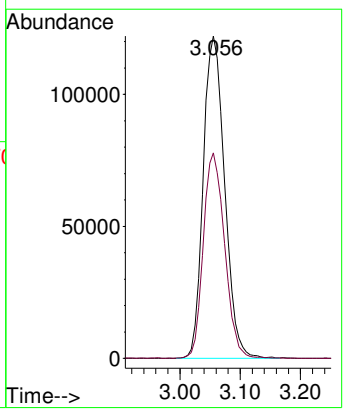
Tgt Ion:101 Resp: 30091

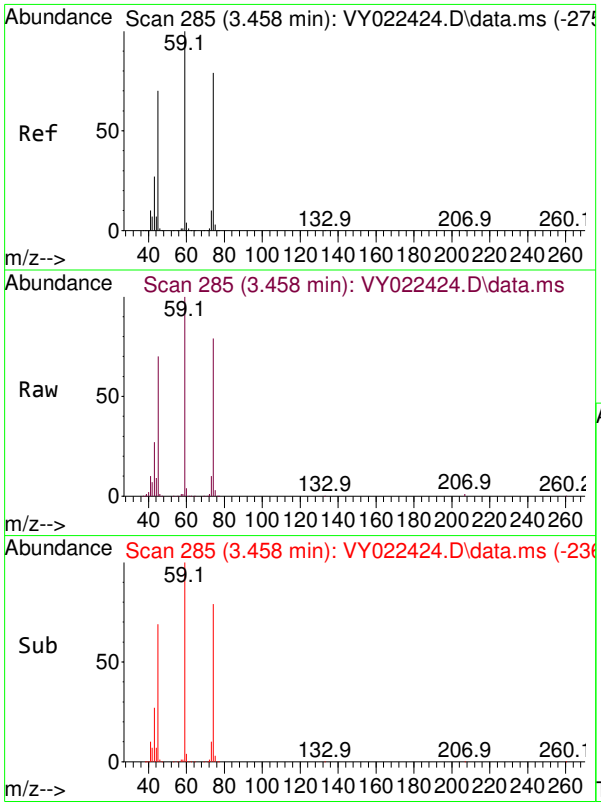
Ion	Ratio	Lower	Upper
101	100		
103	63.6	50.9	76.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

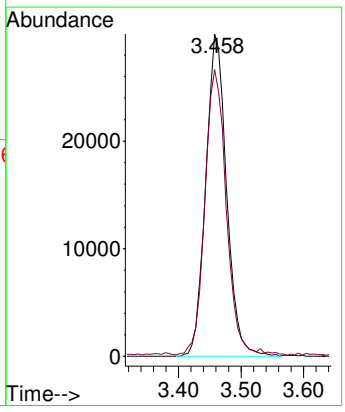


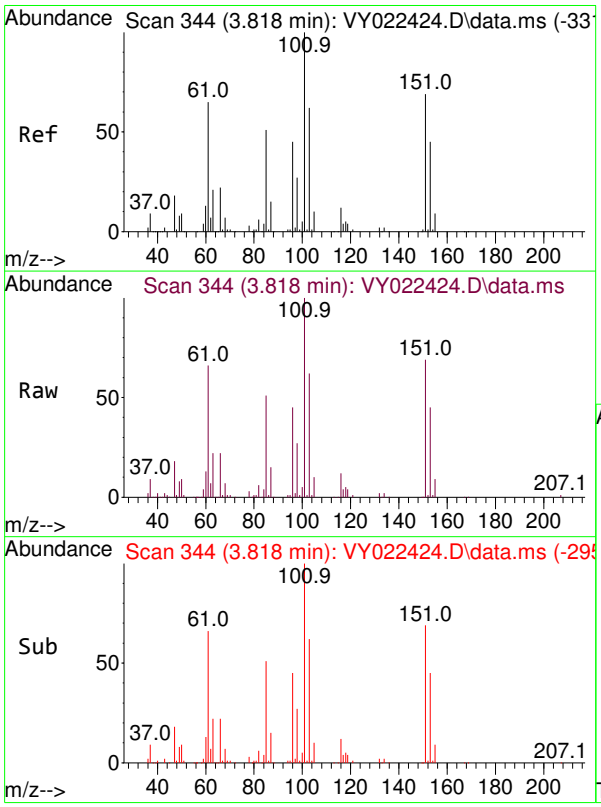


#8
Diethyl Ether
Concen: 49.906 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 74 Resp: 69604

Ion	Ratio	Lower	Upper
74	100		
45	89.7	44.9	134.5

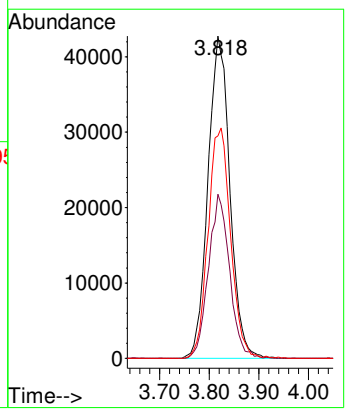




#9
1,1,2-Trichlorotrifluoroethane
Concen: 49.320 ug/l
RT: 3.818 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion:101 Resp: 13087

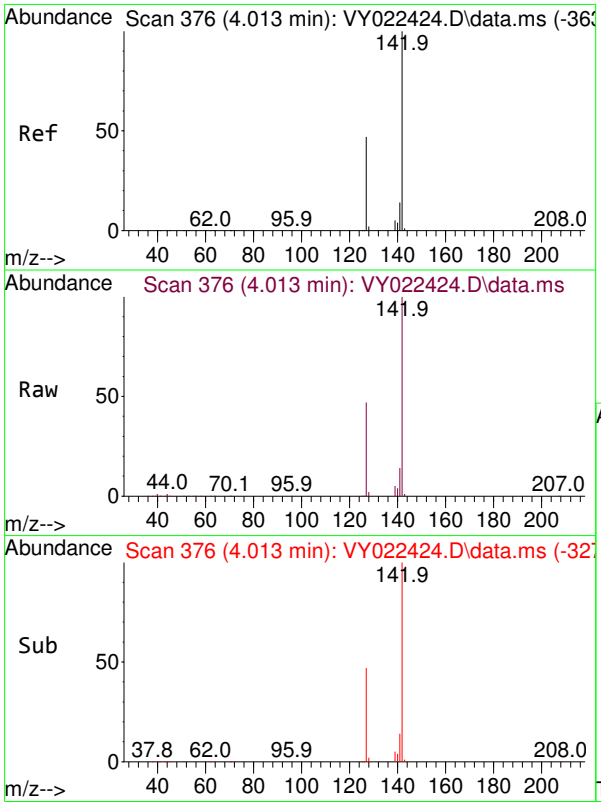
Ion	Ratio	Lower	Upper
101	100		
85	49.0	39.2	58.8
151	73.5	58.8	88.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

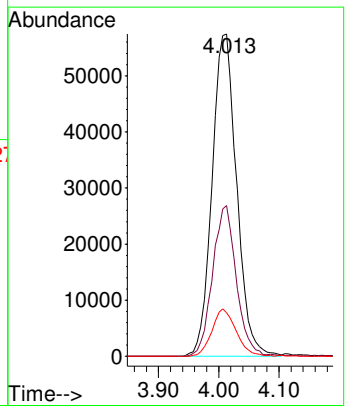
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

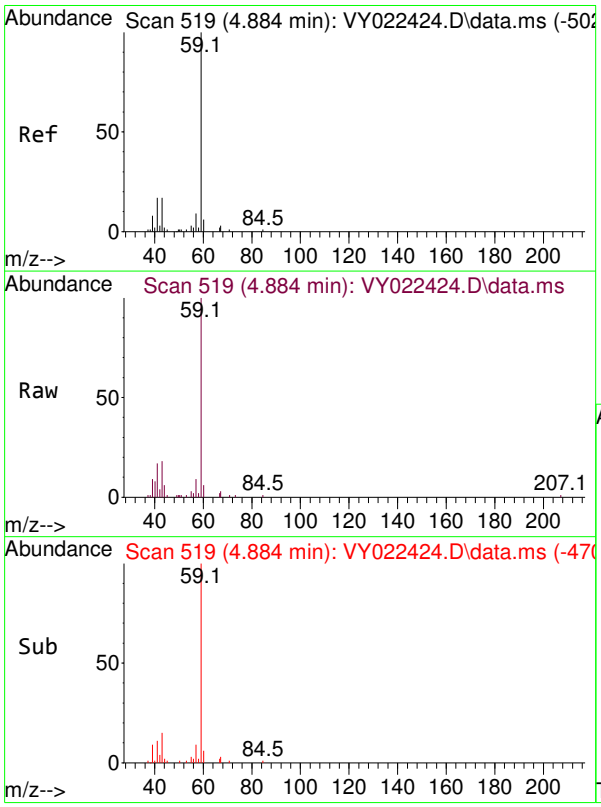


#10
Methyl Iodide
Concen: 54.366 ug/l
RT: 4.013 min Scan# 376
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion:142 Resp: 162763

Ion	Ratio	Lower	Upper
142	100		
127	45.3	36.2	54.4
141	14.5	11.6	17.4





#11
Tert butyl alcohol
Concen: 239.257 ug/l
RT: 4.884 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 59 Resp: 4467

Ion	Ratio	Lower	Upper
59	100		
57	11.4	9.1	13.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Amit Patel 05/28/2025
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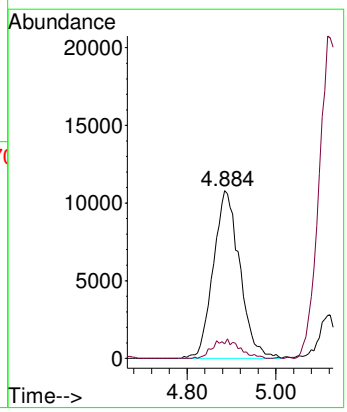
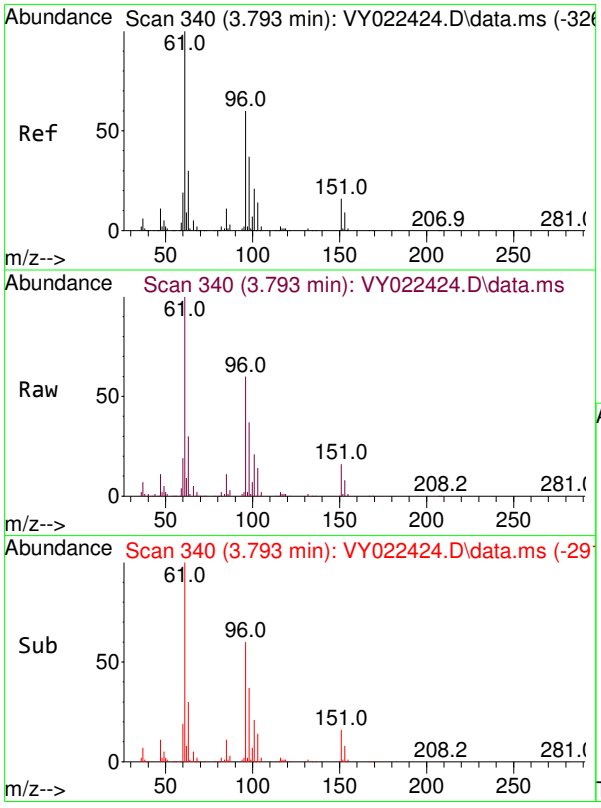
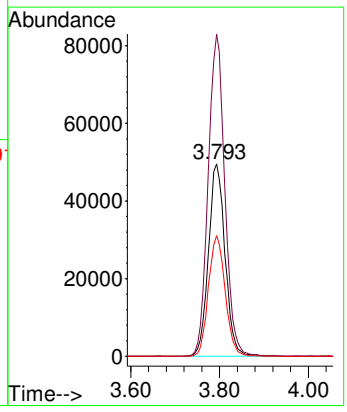


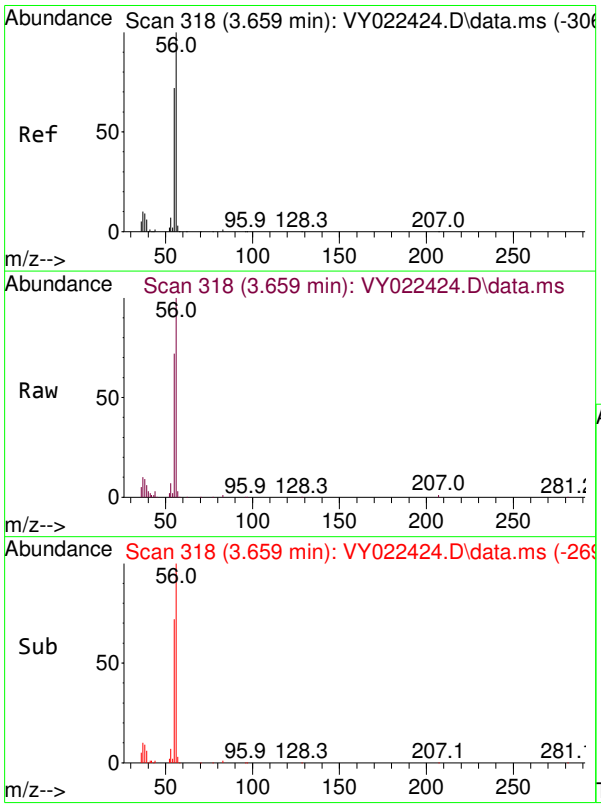


#12
1,1-Dichloroethene
Concen: 48.757 ug/l
RT: 3.793 min Scan# 340
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 96 Resp: 128456

Ion	Ratio	Lower	Upper
96	100		
61	167.6	134.1	201.1
98	62.7	50.2	75.2





#13
Acrolein
Concen: 254.433 ug/l
RT: 3.659 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

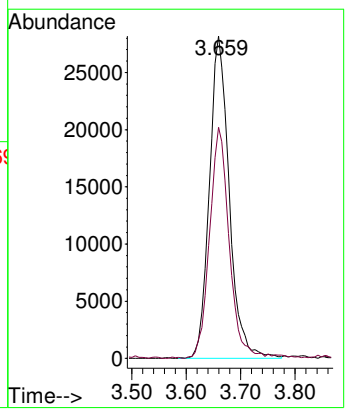
Tgt Ion: 56 Resp: 7117

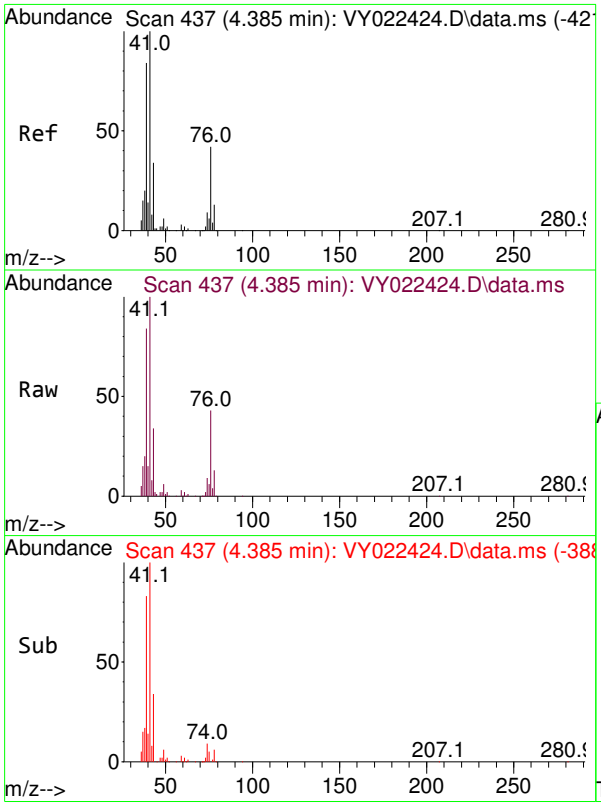
Ion	Ratio	Lower	Upper
56	100		
55	70.6	56.5	84.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

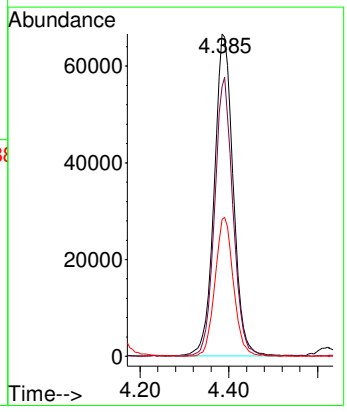


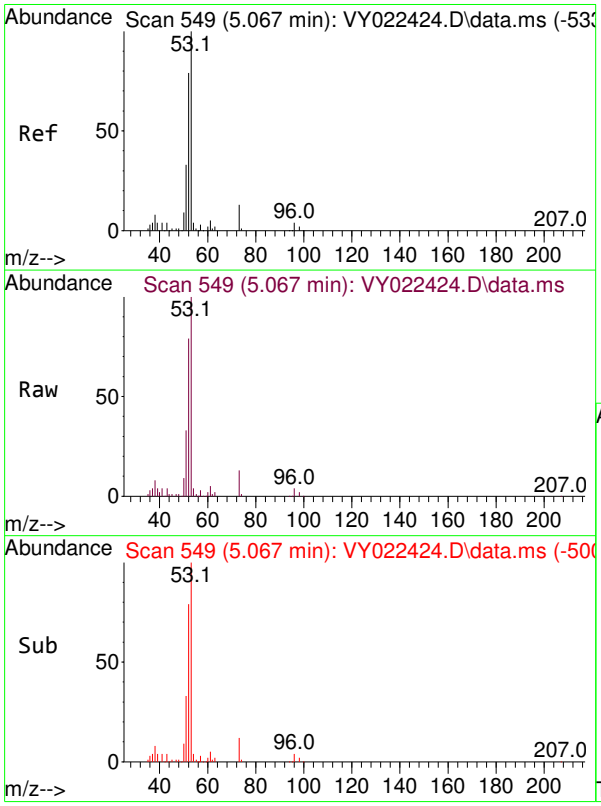


#14
Allyl chloride
Concen: 49.856 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 41 Resp: 197586

Ion	Ratio	Lower	Upper
41	100		
39	83.3	66.6	100.0
76	42.1	33.7	50.5





#15
Acrylonitrile
Concen: 249.258 ug/l
RT: 5.067 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 53 Resp: 14012

Ion	Ratio	Lower	Upper
53	100		
52	81.4	65.1	97.7
51	37.5	30.0	45.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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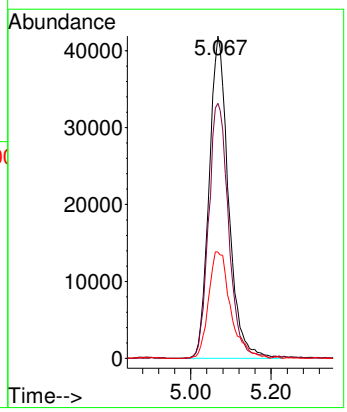
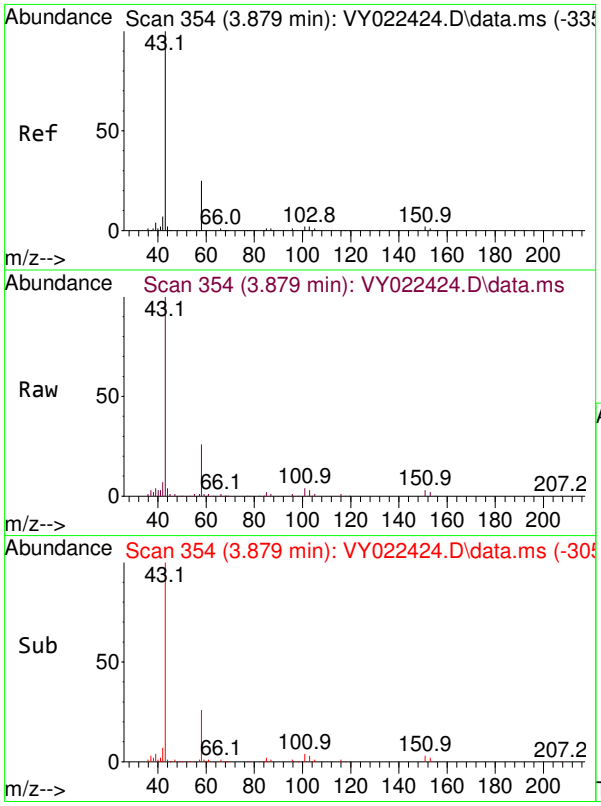
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

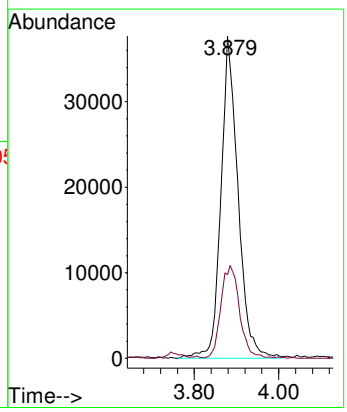


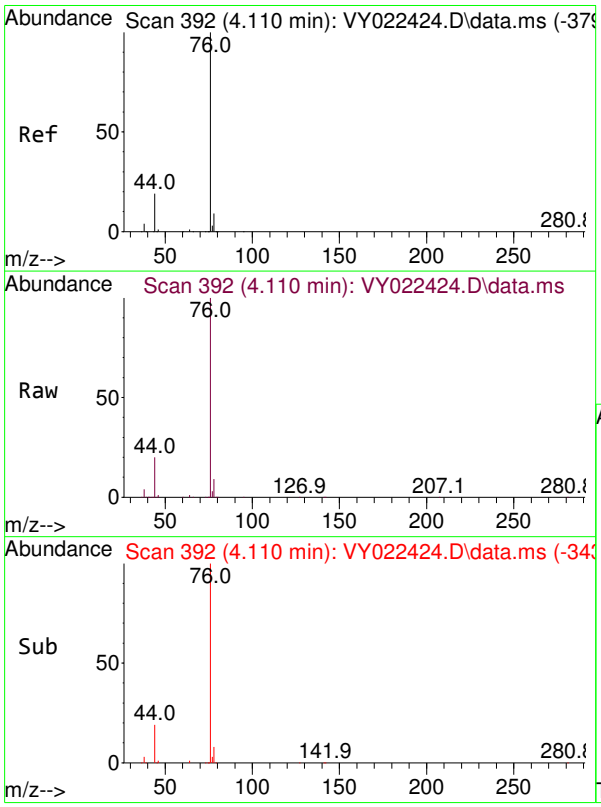


#16
Acetone
Concen: 244.853 ug/l
RT: 3.879 min Scan# 354
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 43 Resp: 106570

Ion	Ratio	Lower	Upper
43	100		
58	25.7	20.6	30.8





#17
Carbon Disulfide
Concen: 49.433 ug/l
RT: 4.110 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 76 Resp: 41561

Ion	Ratio	Lower	Upper
76	100		
78	9.0	7.2	10.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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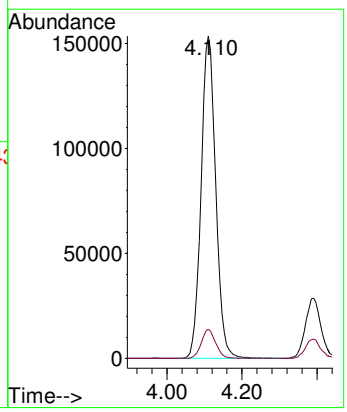
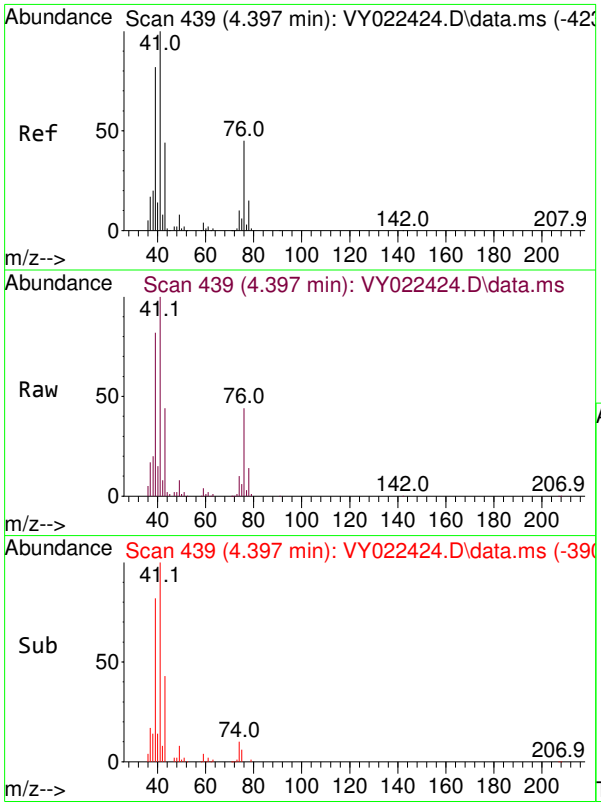
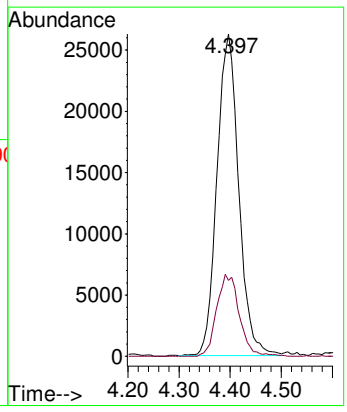


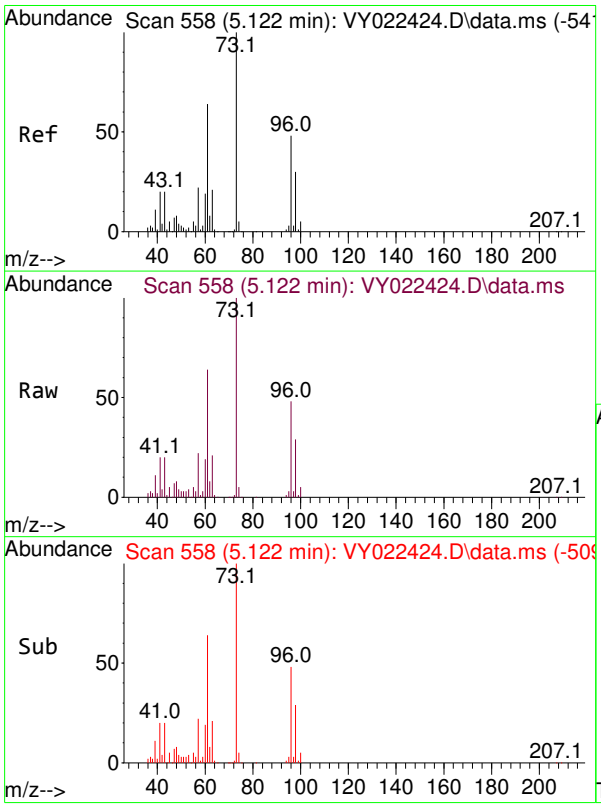


#18
Methyl Acetate
Concen: 47.567 ug/l
RT: 4.397 min Scan# 439
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 43 Resp: 77552

Ion	Ratio	Lower	Upper
43	100		
74	26.5	21.2	31.8





#19
Methyl tert-butyl Ether
Concen: 49.839 ug/l
RT: 5.122 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 73 Resp: 34860

Ion	Ratio	Lower	Upper
73	100		
57	22.1	17.7	26.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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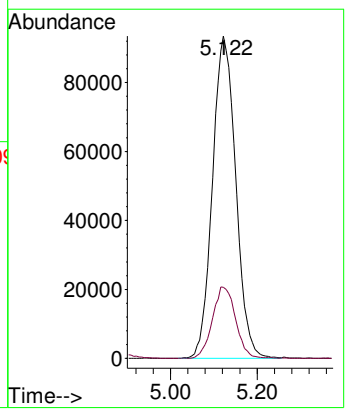
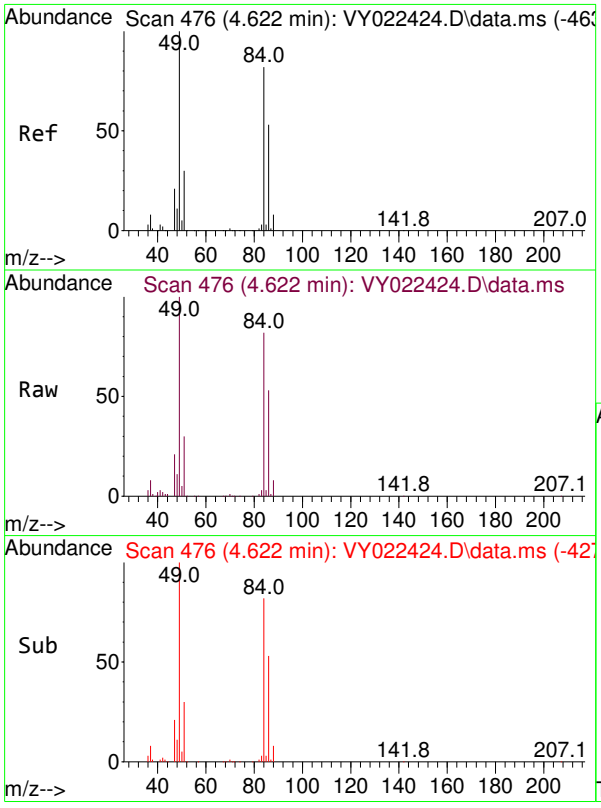
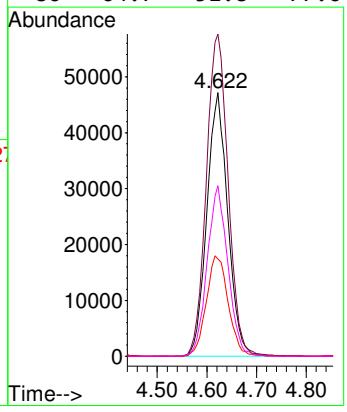


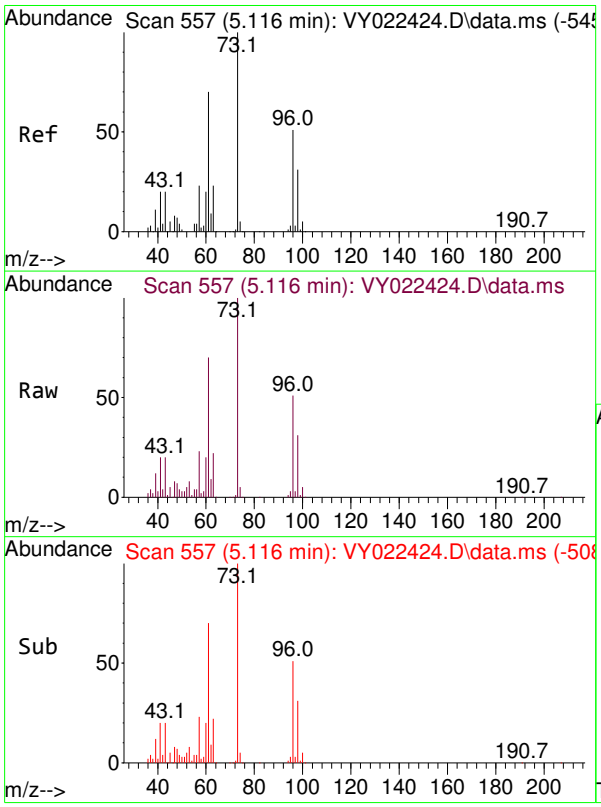


#20
Methylene Chloride
Concen: 44.887 ug/l
RT: 4.622 min Scan# 476
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 84 Resp: 137958

Ion	Ratio	Lower	Upper
84	100		
49	122.3	97.8	146.8
51	36.9	29.5	44.3
86	64.7	51.8	77.6

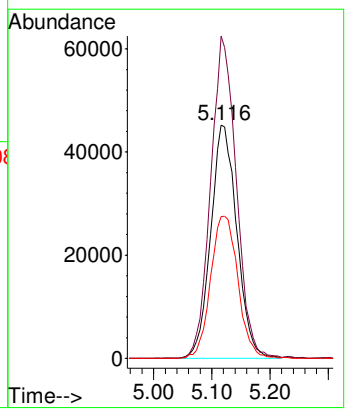




#21
trans-1,2-Dichloroethene
Concen: 49.026 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 96 Resp: 14101

Ion	Ratio	Lower	Upper
96	100		
61	138.0	110.4	165.6
98	60.8	48.6	73.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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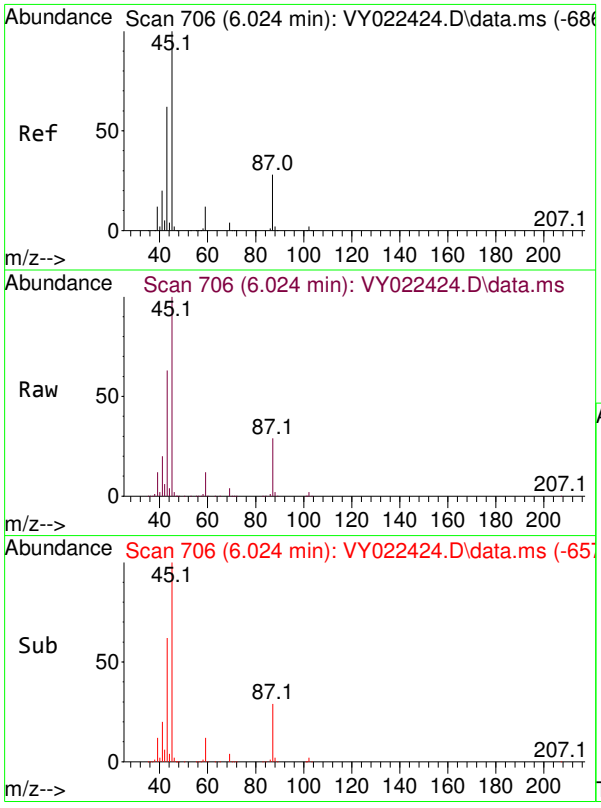
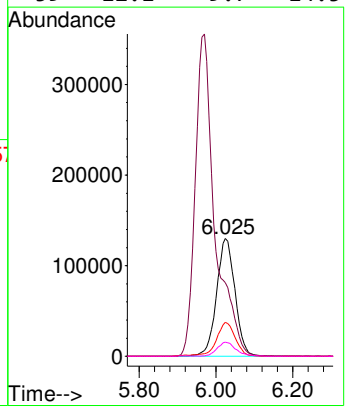
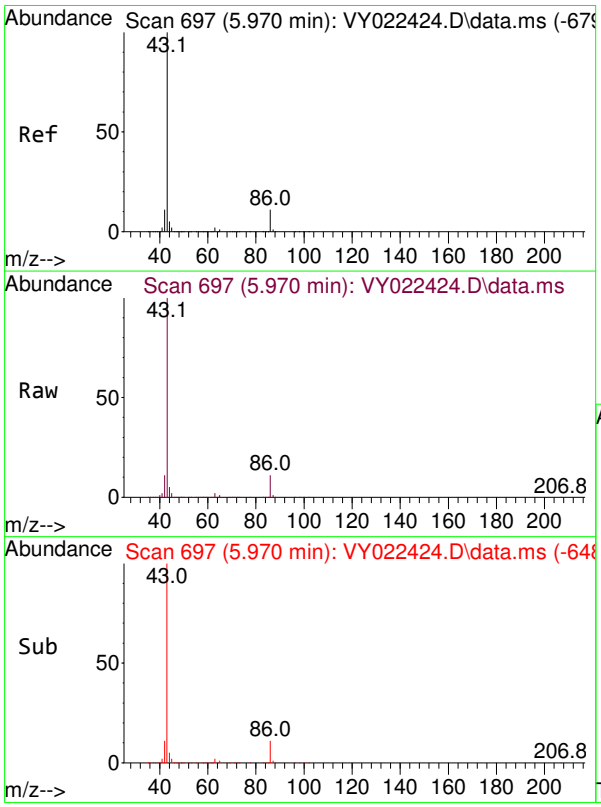


#22
Diisopropyl ether
Concen: 49.618 ug/l
RT: 6.024 min Scan# 706
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 45 Resp: 433997

Ion	Ratio	Lower	Upper
45	100		
43	62.3	49.8	74.8
87	28.8	23.0	34.6
59	12.1	9.7	14.5





#23
Vinyl Acetate
Concen: 251.347 ug/l
RT: 5.970 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 43 Resp: 126232

Ion	Ratio	Lower	Upper
43	100		
86	11.0	8.8	13.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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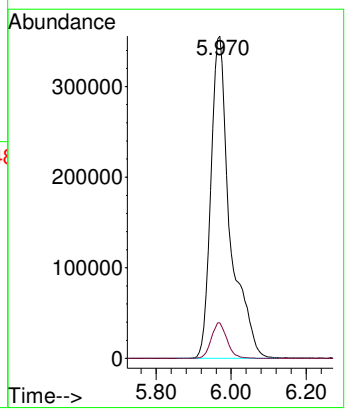
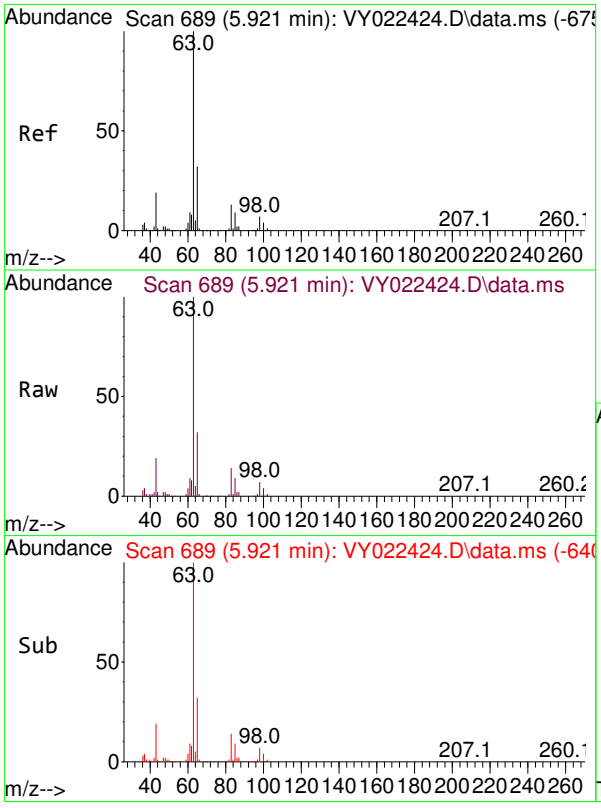
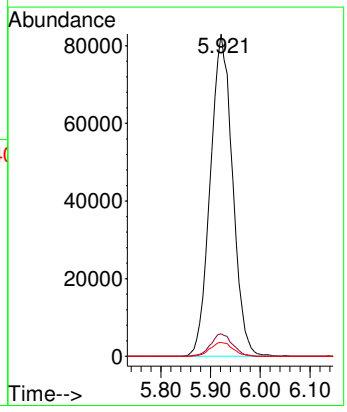


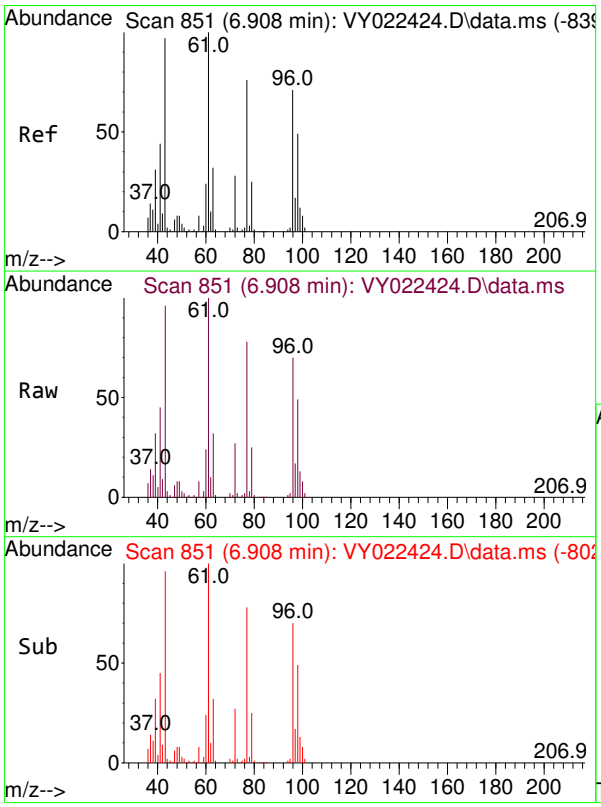


#24
1,1-Dichloroethane
Concen: 49.955 ug/l
RT: 5.921 min Scan# 689
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 63 Resp: 258190

Ion	Ratio	Lower	Upper
63	100		
98	7.0	3.5	10.5
100	4.3	2.1	6.5





#25
2-Butanone
Concen: 246.104 ug/l
RT: 6.908 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 43 Resp: 17839

Ion	Ratio	Lower	Upper
43	100		
72	28.5	22.8	34.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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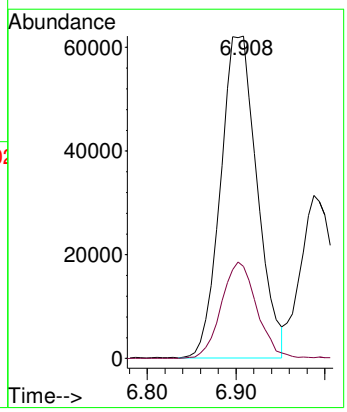
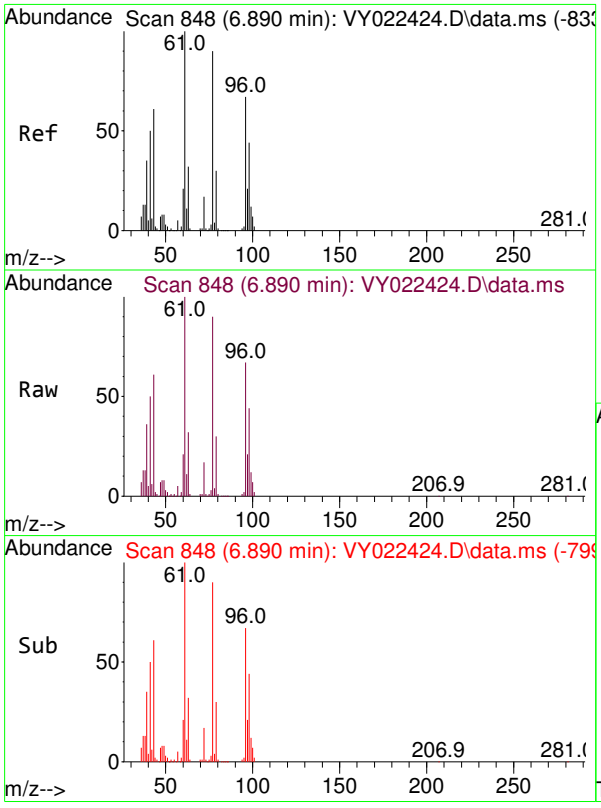
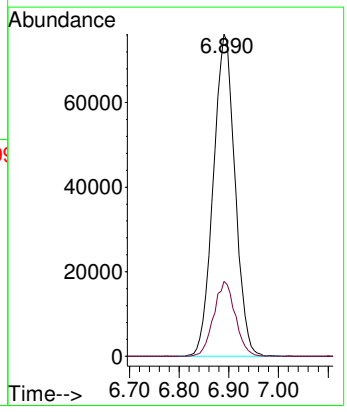


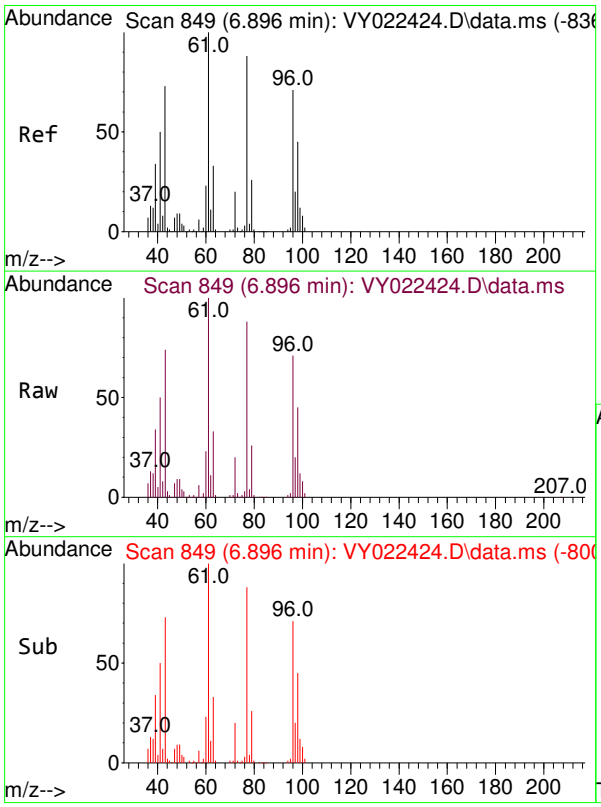


#26
2,2-Dichloropropane
Concen: 49.466 ug/l
RT: 6.890 min Scan# 848
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 77 Resp: 231499

Ion	Ratio	Lower	Upper
77	100		
97	23.1	11.6	34.7

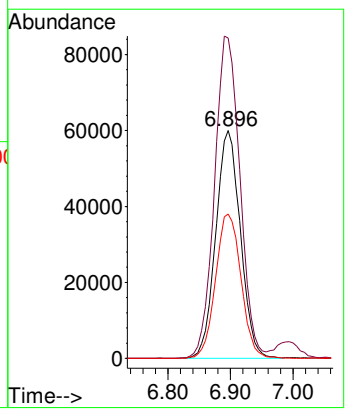




#27
cis-1,2-Dichloroethene
Concen: 49.217 ug/l
RT: 6.896 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 96 Resp: 16387

Ion	Ratio	Lower	Upper
96	100		
61	146.0	0.0	292.0
98	65.5	0.0	131.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
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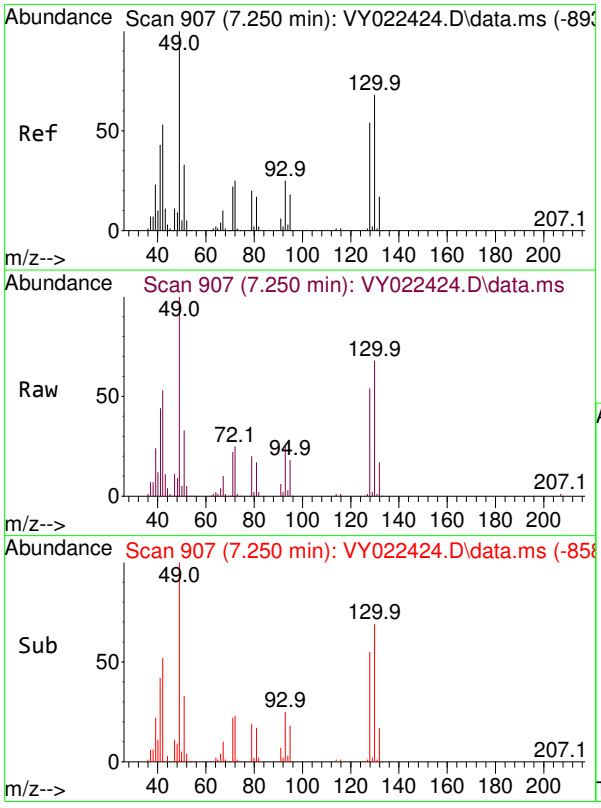
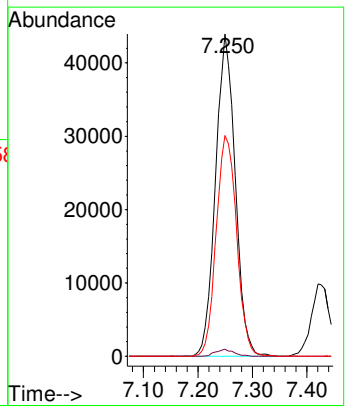
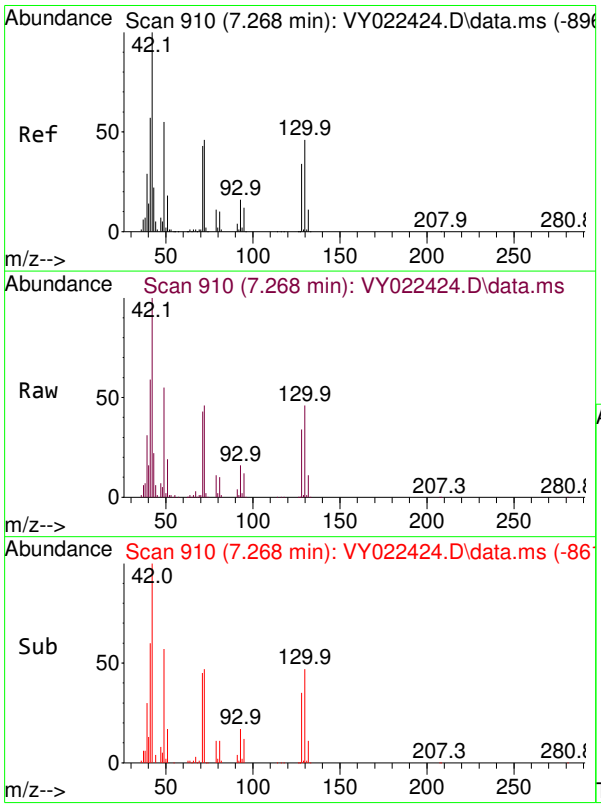


#28
Bromochloromethane
Concen: 51.091 ug/l
RT: 7.250 min Scan# 907
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 49 Resp: 110266

Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	4.0
130	71.1	56.9	85.3





#29
Tetrahydrofuran
Concen: 247.328 ug/l
RT: 7.268 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 42 Resp: 11956

Ion	Ratio	Lower	Upper
42	100		
72	47.1	37.7	56.5
71	43.4	34.7	52.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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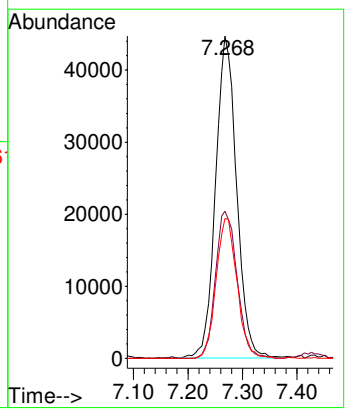
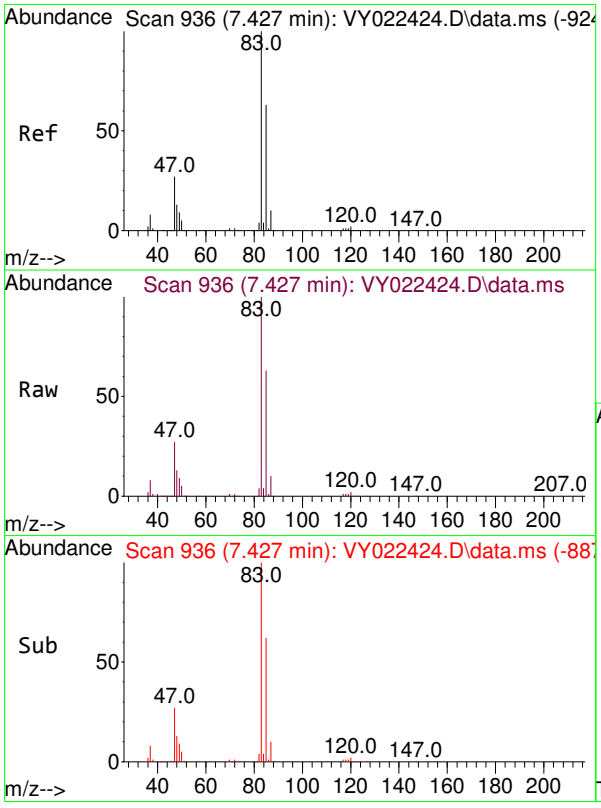
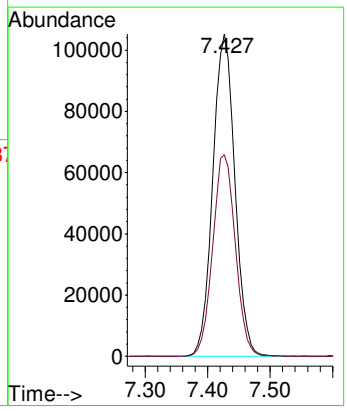


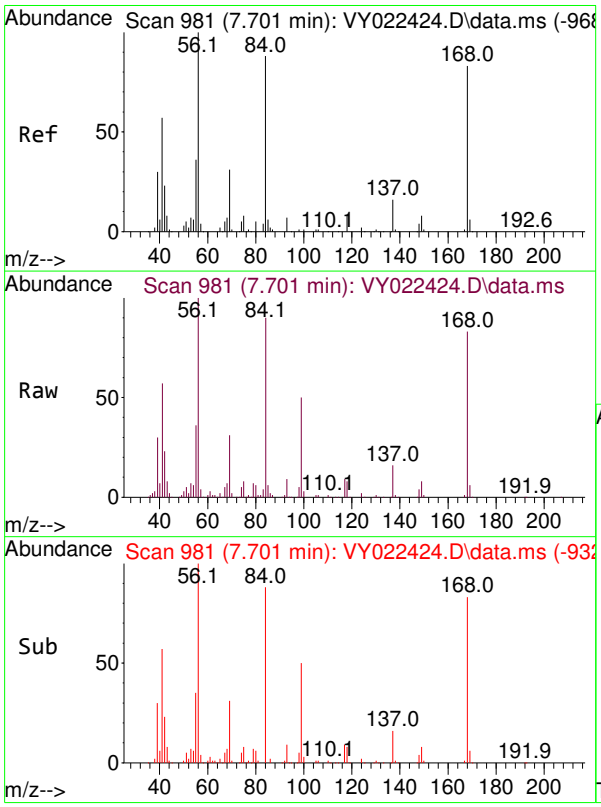


#30
Chloroform
Concen: 50.655 ug/l
RT: 7.427 min Scan# 936
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 83 Resp: 257981

Ion	Ratio	Lower	Upper
83	100		
85	62.6	50.1	75.1





#31
Cyclohexane
Concen: 46.340 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 56 Resp: 23609

Ion	Ratio	Lower	Upper
56	100		
69	30.7	24.6	36.8
84	88.0	70.4	105.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
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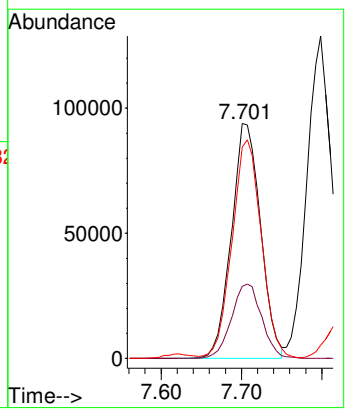
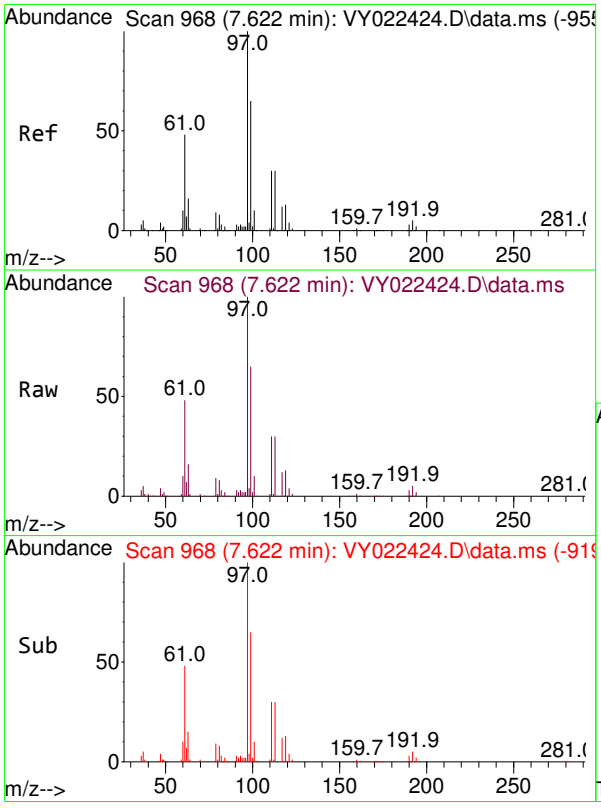
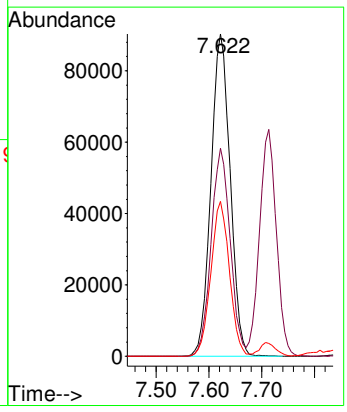


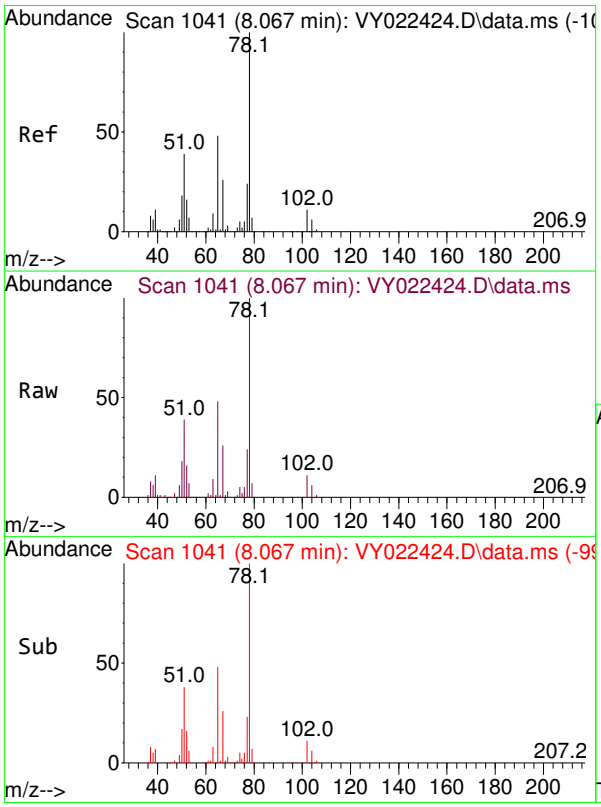


#32
1,1,1-Trichloroethane
Concen: 49.660 ug/l
RT: 7.622 min Scan# 968
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 97 Resp: 229531

Ion	Ratio	Lower	Upper
97	100		
99	64.1	51.3	76.9
61	46.6	37.3	55.9





#33
1,2-Dichloroethane-d4
Concen: 50.486 ug/l
RT: 8.067 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

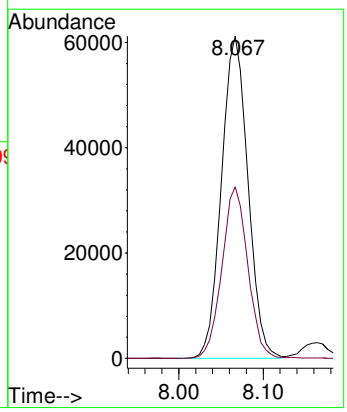
Tgt Ion: 65 Resp: 13372

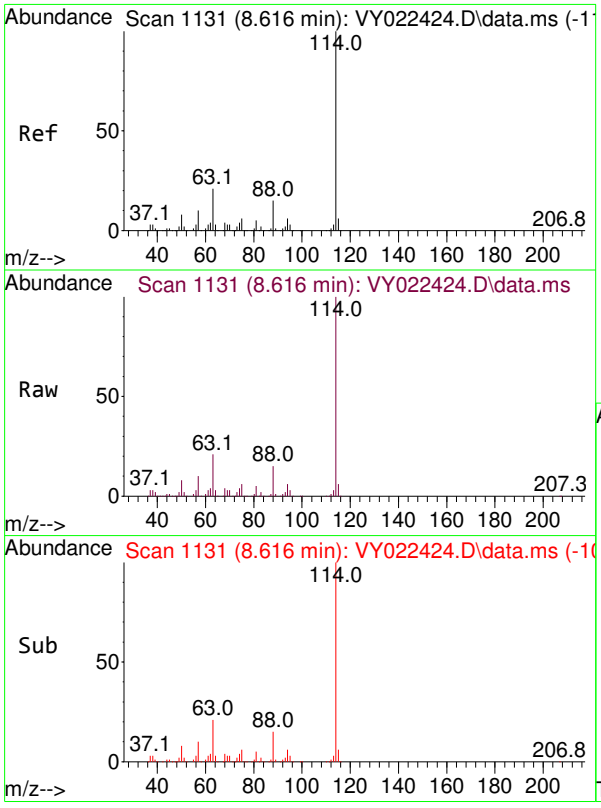
Ion	Ratio	Lower	Upper
65	100		
67	52.2	0.0	104.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

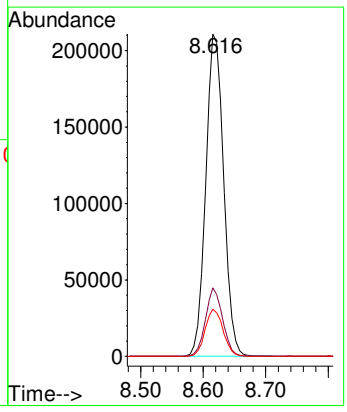


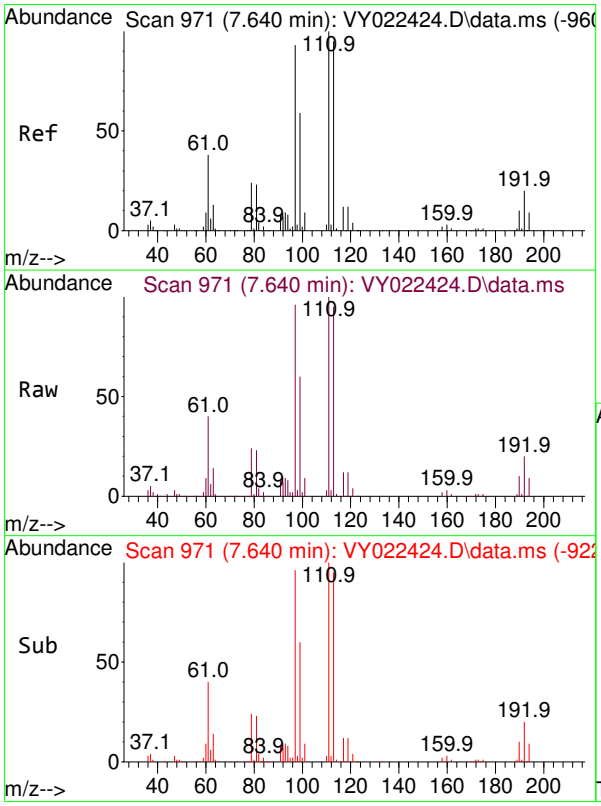


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion:114 Resp: 421648

Ion	Ratio	Lower	Upper
114	100		
63	21.3	0.0	42.6
88	14.7	0.0	29.4





#35
Dibromofluoromethane
Concen: 49.438 ug/l
RT: 7.640 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion:113 Resp: 12207

Ion	Ratio	Lower	Upper
113	100		
111	103.0	82.4	123.6
192	19.0	15.2	22.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

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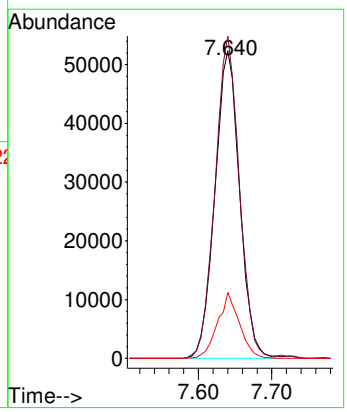
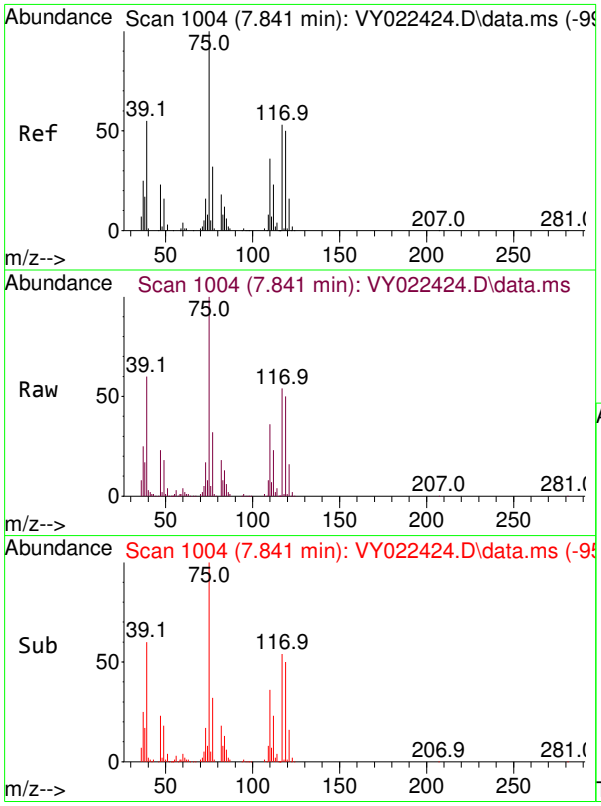
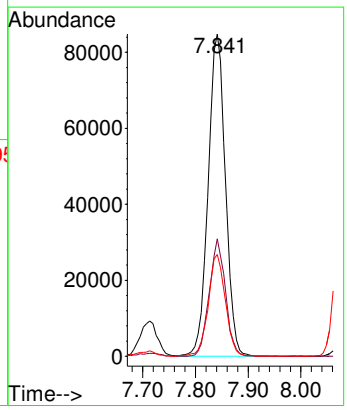


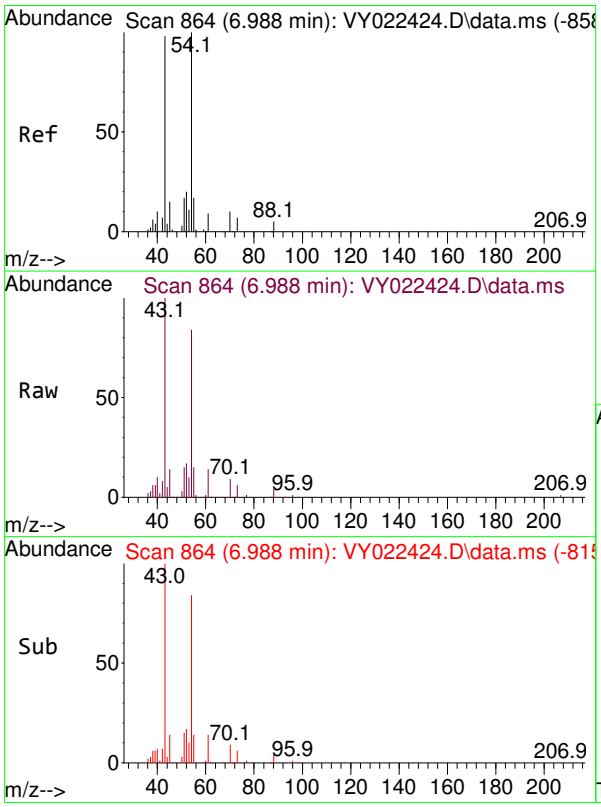


#36
1,1-Dichloropropene
Concen: 49.482 ug/l
RT: 7.841 min Scan# 1004
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 75 Resp: 193888

Ion	Ratio	Lower	Upper
75	100		
110	34.1	17.1	51.2
77	31.4	25.1	37.7





#37
Ethyl Acetate
Concen: 50.538 ug/l
RT: 6.988 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 43 Resp: 8415

Ion	Ratio	Lower	Upper
43	100		
61	14.6	11.7	17.5
70	9.7	7.8	11.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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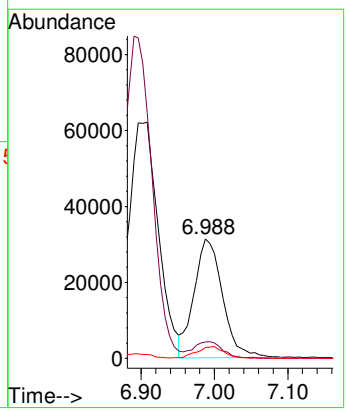
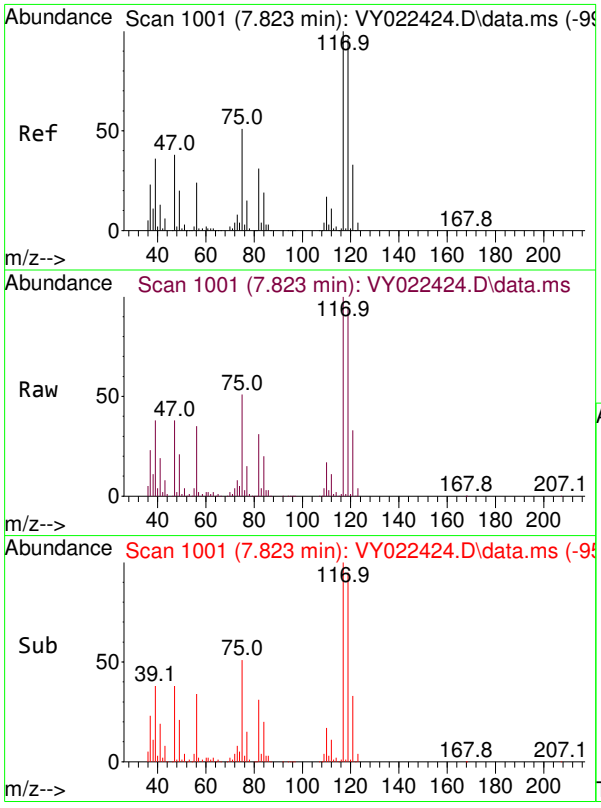
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

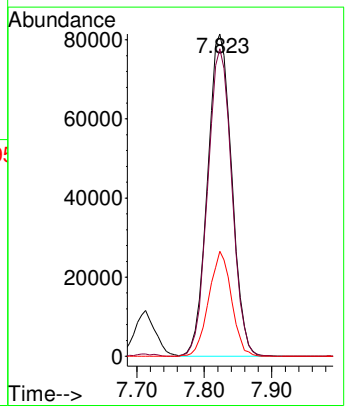


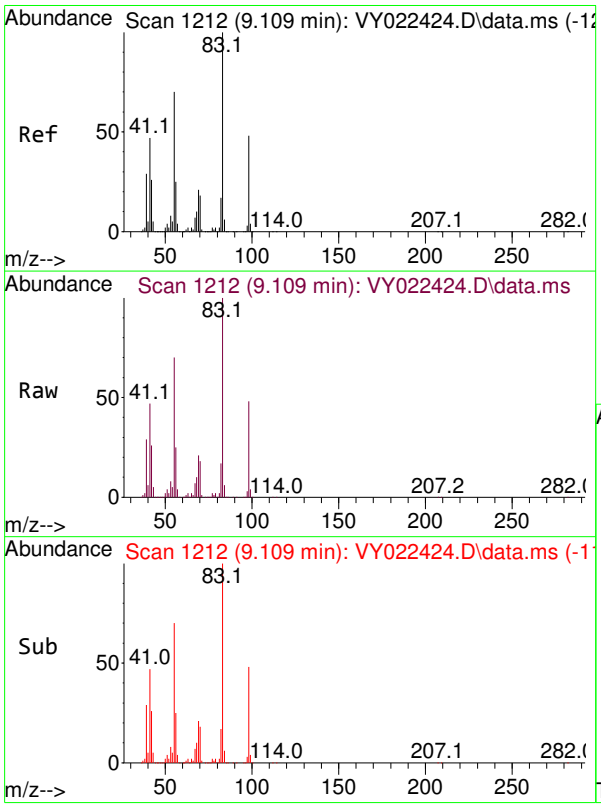


#38
Carbon Tetrachloride
Concen: 49.731 ug/l
RT: 7.823 min Scan# 1001
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion:117 Resp: 202994

Ion	Ratio	Lower	Upper
117	100		
119	95.4	76.3	114.5
121	32.6	26.1	39.1





#39
Methylcyclohexane
Concen: 49.724 ug/l
RT: 9.109 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 83 Resp: 25899

Ion	Ratio	Lower	Upper
83	100		
55	70.2	56.2	84.2
98	48.0	38.4	57.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
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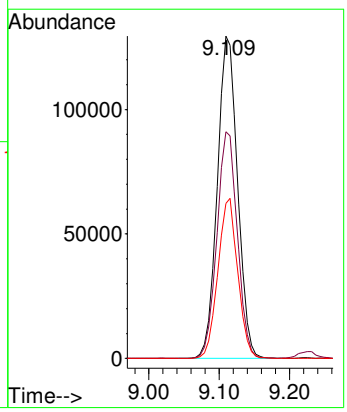
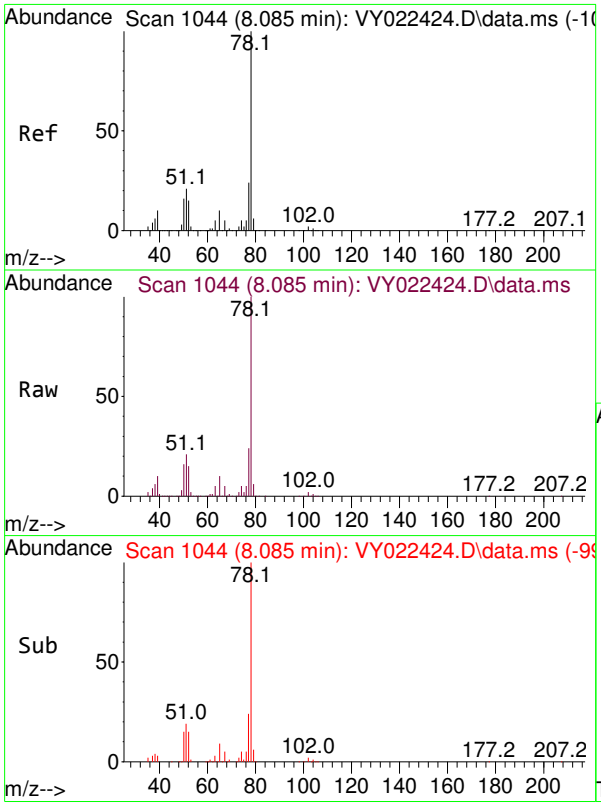
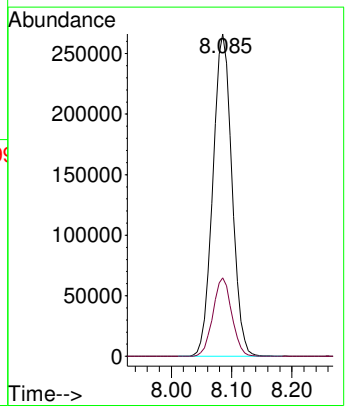


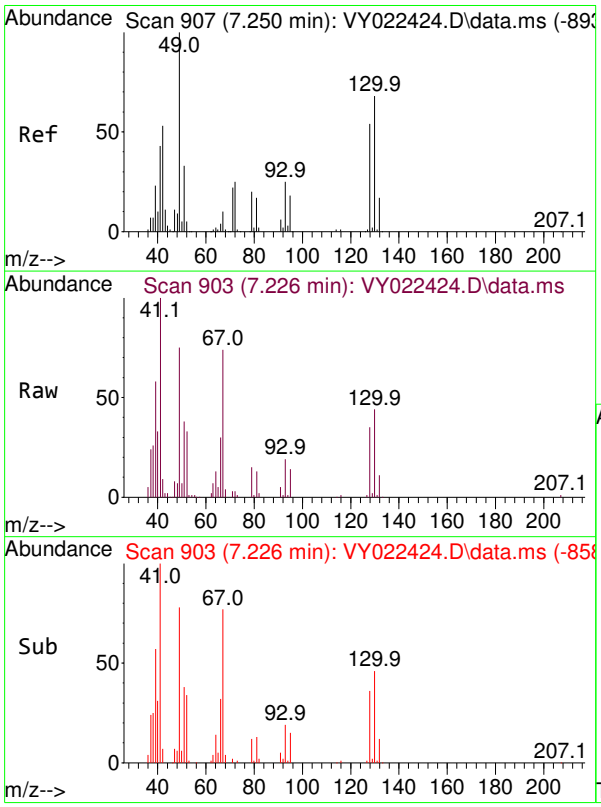


#40
Benzene
Concen: 50.308 ug/l
RT: 8.085 min Scan# 1044
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 78 Resp: 586562

Ion	Ratio	Lower	Upper
78	100		
77	24.3	19.4	29.2

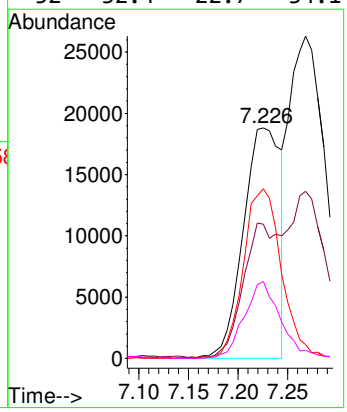




#41
Methacrylonitrile
Concen: 22.465 ug/l
RT: 7.226 min Scan# 9
Delta R.T. -0.024 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 41 Resp: 4923

Ion	Ratio	Lower	Upper
41	100		
39	57.5	40.4	60.6
67	75.4	53.0	79.4
52	32.4	22.7	34.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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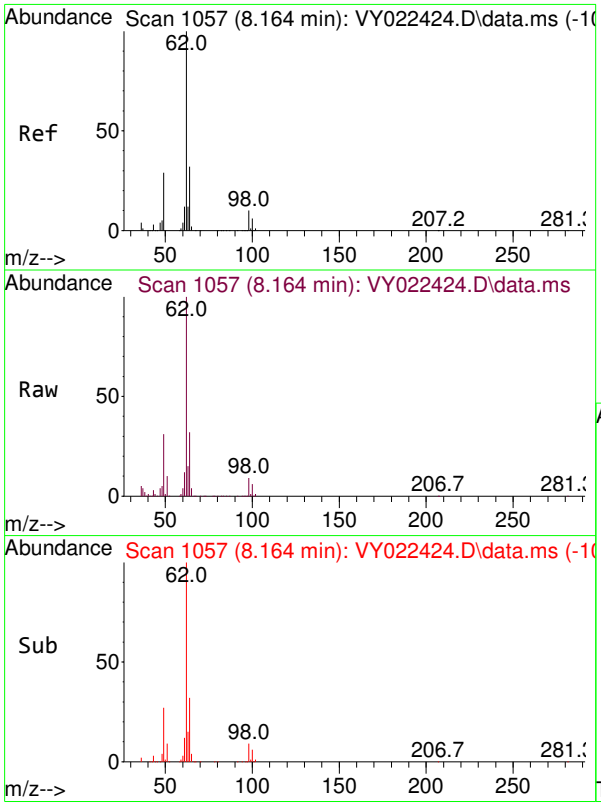
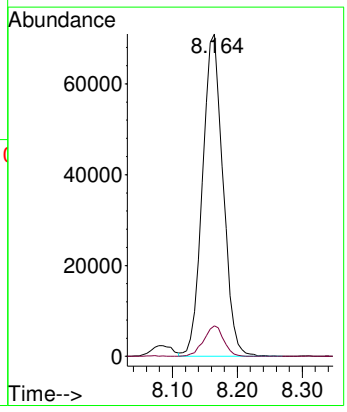
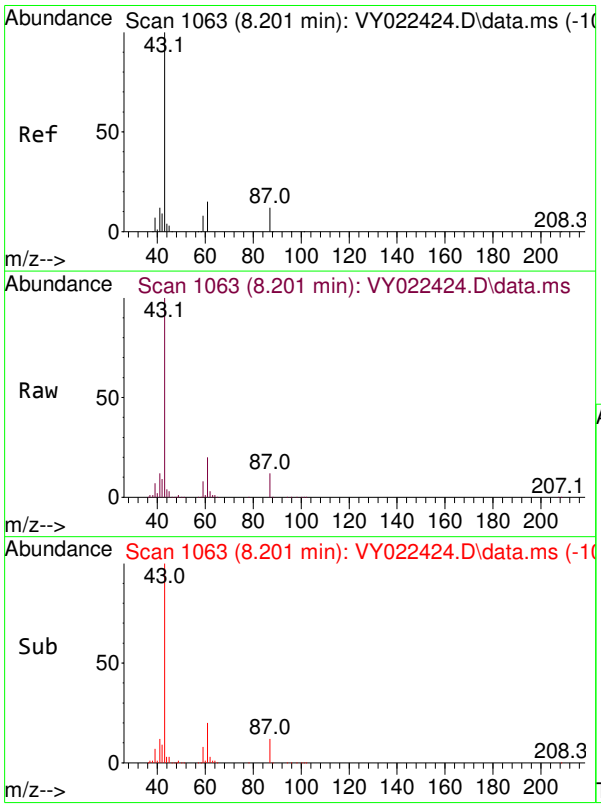


#42
1,2-Dichloroethane
Concen: 50.458 ug/l
RT: 8.164 min Scan# 1057
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 62 Resp: 155379

Ion	Ratio	Lower	Upper
62	100		
98	9.2	0.0	18.4





#43
Isopropyl Acetate
Concen: 50.467 ug/l
RT: 8.201 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 18364

Ion	Ratio	Lower	Upper
43	100		
61	19.2	15.4	23.0
87	13.2	10.6	15.8

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Reviewed By :Amit Patel 05/28/2025
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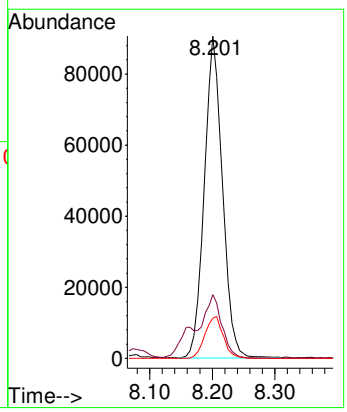
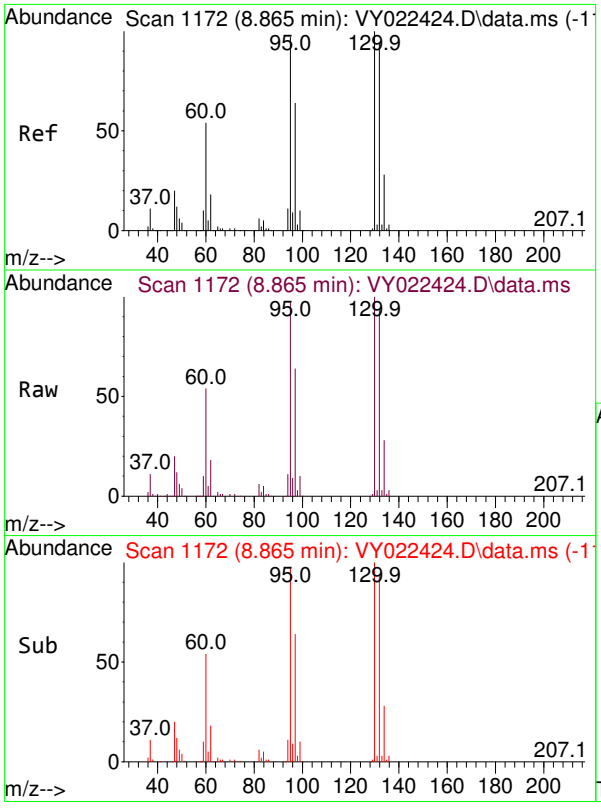
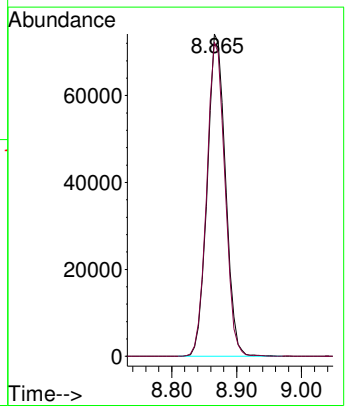


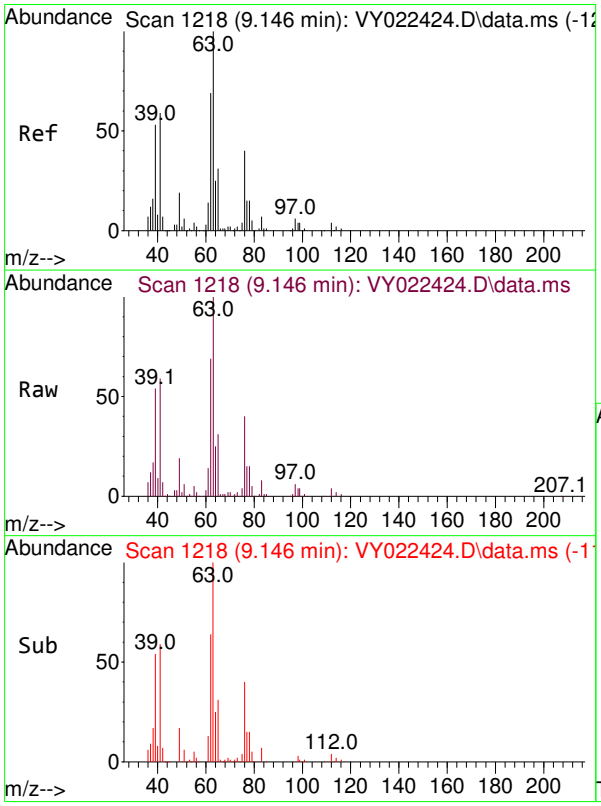


#44
Trichloroethene
Concen: 50.172 ug/l
RT: 8.865 min Scan# 1172
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion:130 Resp: 144611

Ion	Ratio	Lower	Upper
130	100		
95	97.4	0.0	194.8





#45
1,2-Dichloropropane
Concen: 49.730 ug/l
RT: 9.146 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 63 Resp: 13623

Ion	Ratio	Lower	Upper
63	100		
65	31.4	25.1	37.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
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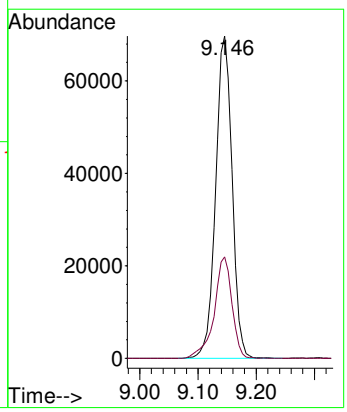
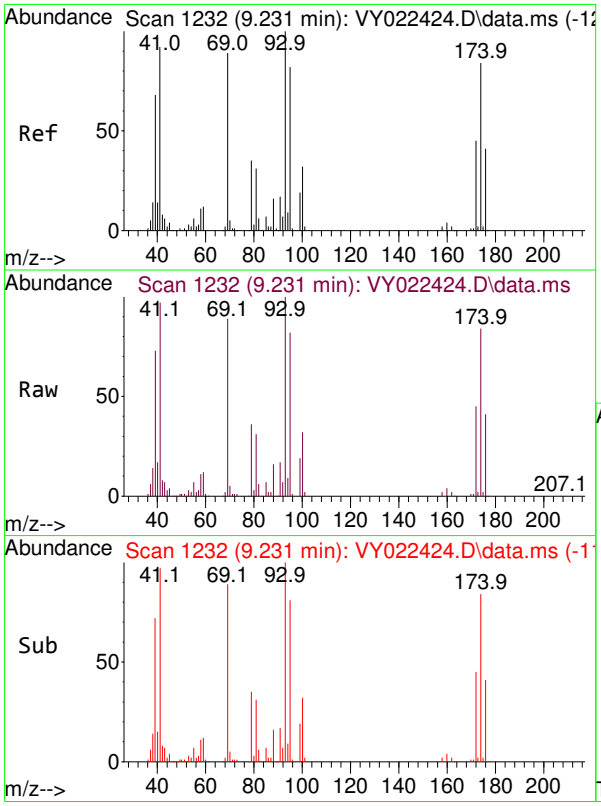
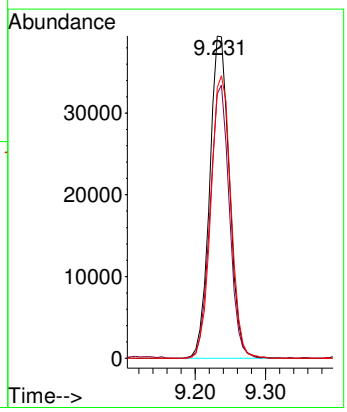


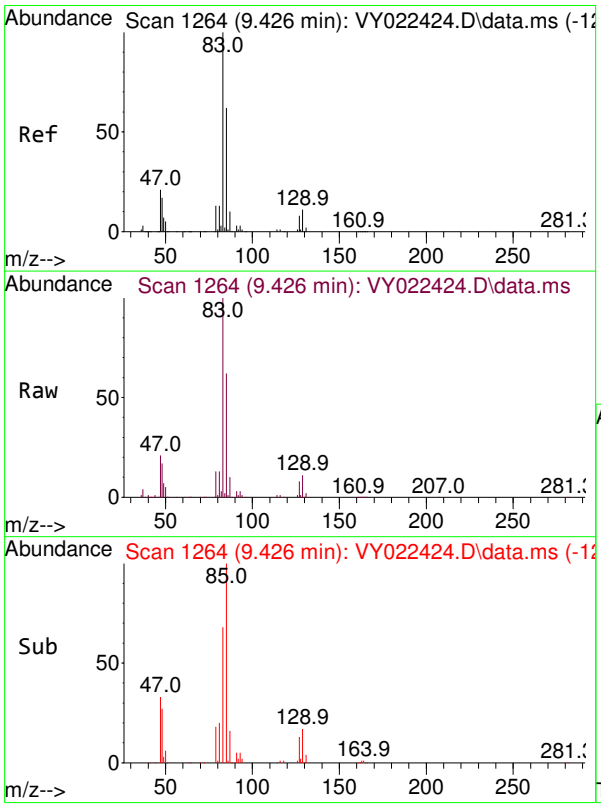


#46
Dibromomethane
Concen: 50.148 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 93 Resp: 76743

Ion	Ratio	Lower	Upper
93	100		
95	82.7	66.2	99.2
174	88.9	71.1	106.7





#47
Bromodichloromethane
Concen: 49.717 ug/l
RT: 9.426 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 83 Resp: 19565

Ion	Ratio	Lower	Upper
83	100		
85	62.2	49.8	74.6
127	8.2	6.6	9.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :Amit Patel 05/28/2025
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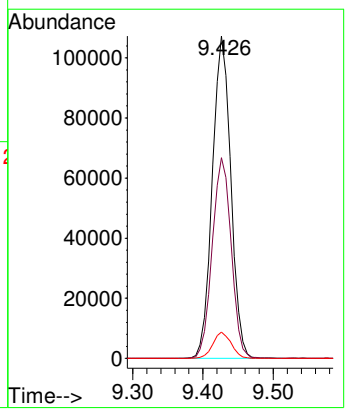
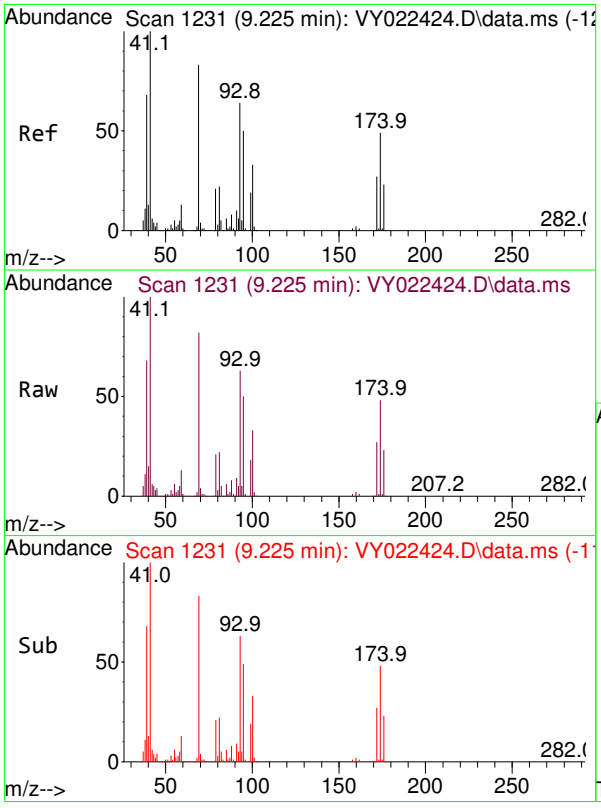
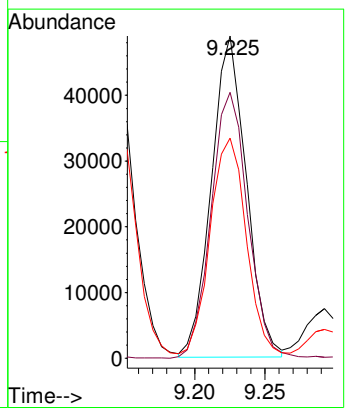


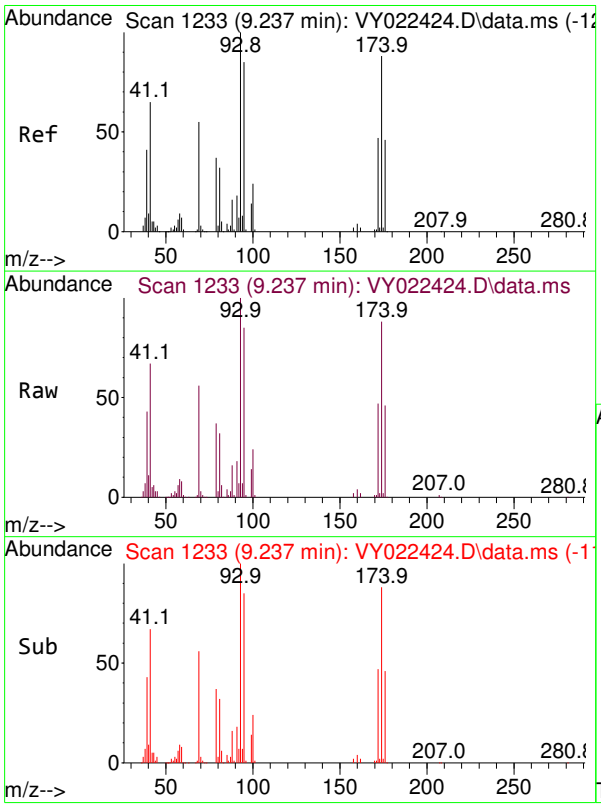


#48
Methyl methacrylate
Concen: 49.870 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 41 Resp: 84239

Ion	Ratio	Lower	Upper
41	100		
69	87.9	70.3	105.5
39	69.2	55.4	83.0

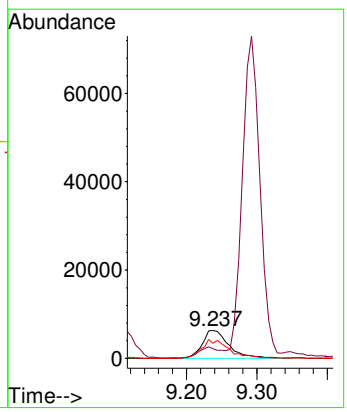




#49
1,4-Dioxane
Concen: 988.479 ug/l
RT: 9.237 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 88 Resp: 1670

Ion	Ratio	Lower	Upper
88	100		
43	33.6	26.9	40.3
58	69.7	55.8	83.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

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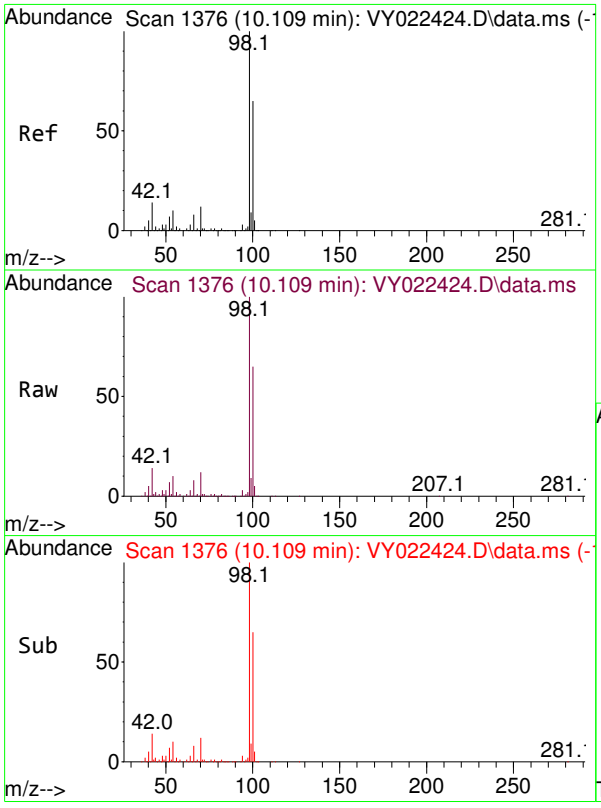
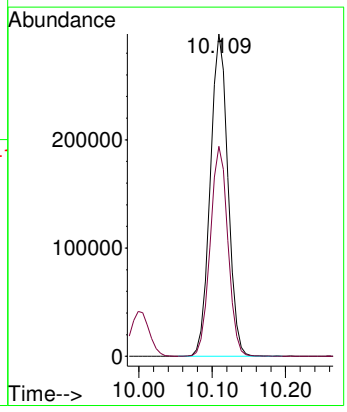
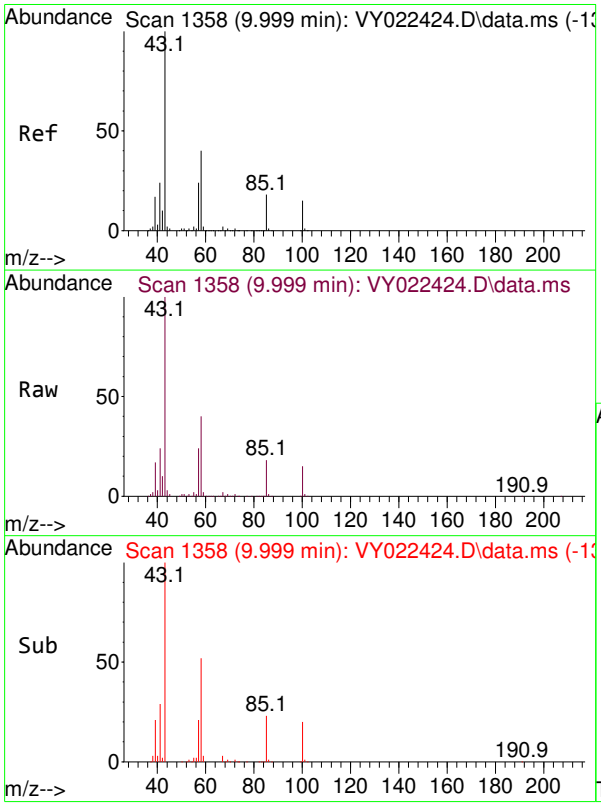


#50
Toluene-d8
Concen: 49.264 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 98 Resp: 495900

Ion	Ratio	Lower	Upper
98	100		
100	65.2	52.2	78.2





#51
4-Methyl-2-Pentanone
Concen: 256.225 ug/l
RT: 9.999 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 43 Resp: 46003

Ion	Ratio	Lower	Upper
43	100		
58	39.0	31.2	46.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
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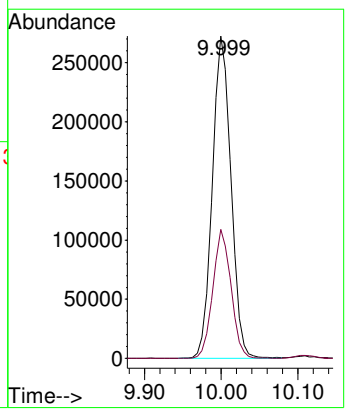
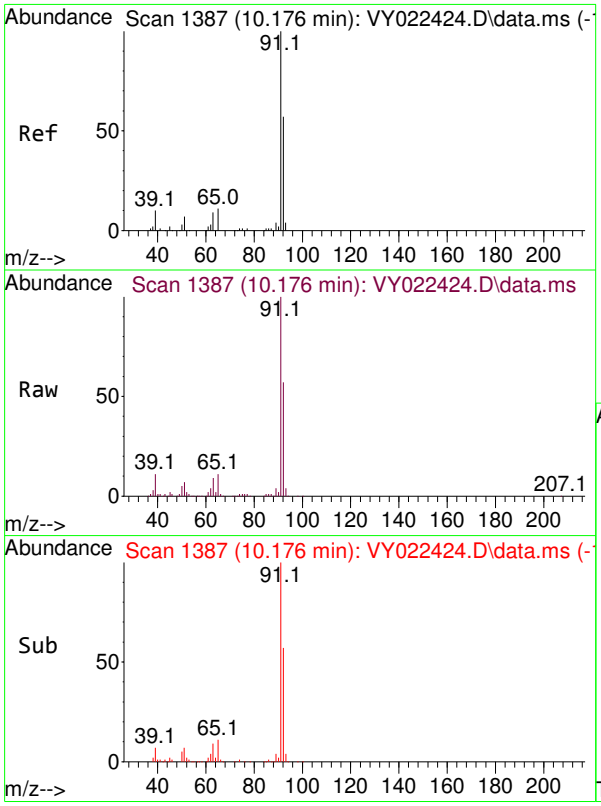
Supervised By :Mahesh Dadoda 05/28/2025

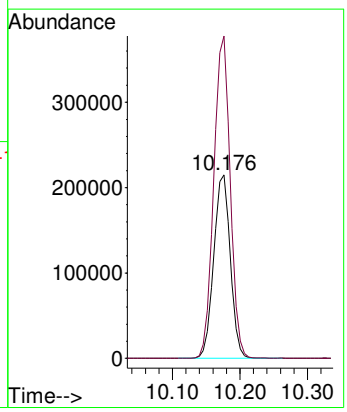


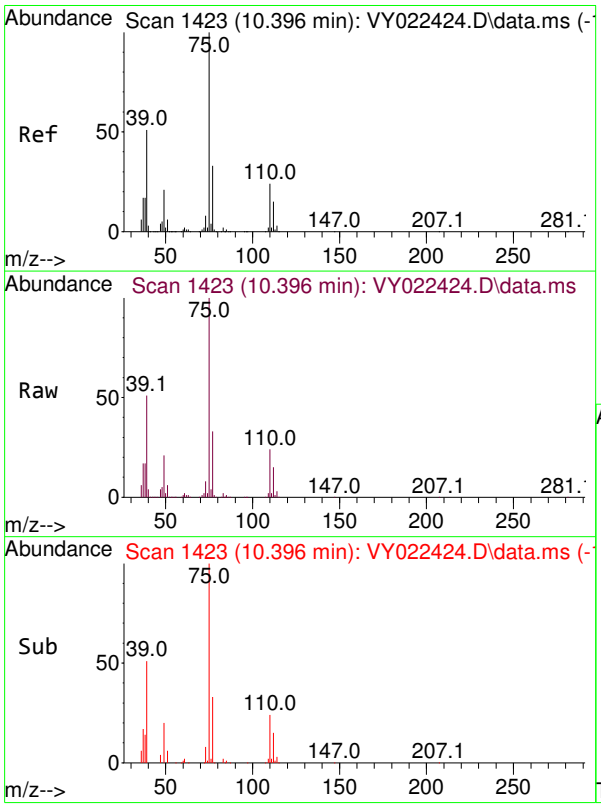


#52
Toluene
Concen: 50.235 ug/l
RT: 10.176 min Scan# 1387
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 92 Resp: 365833

Ion	Ratio	Lower	Upper
92	100		
91	174.7	139.8	209.6

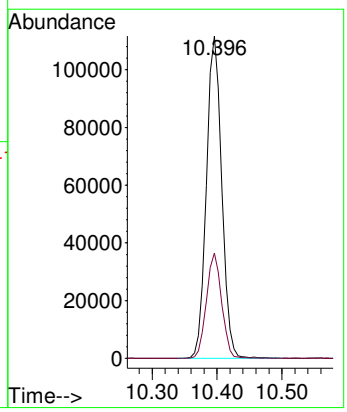




#53
t-1,3-Dichloropropene
Concen: 49.875 ug/l
RT: 10.396 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 75 Resp: 18281

Ion	Ratio	Lower	Upper
75	100		
77	32.7	26.2	39.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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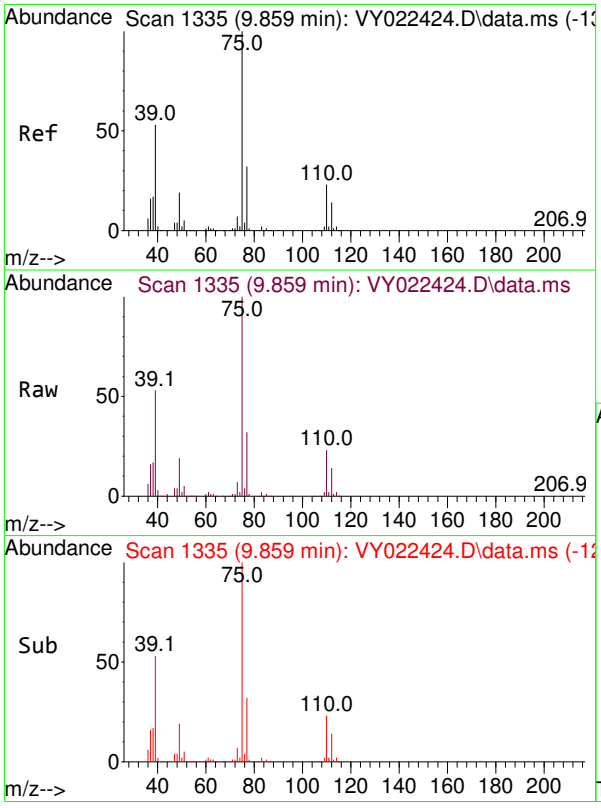
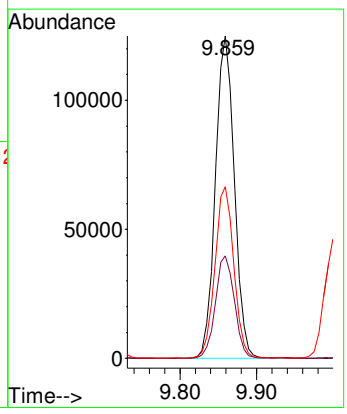
Supervised By :Mahesh Dadoda 05/28/2025

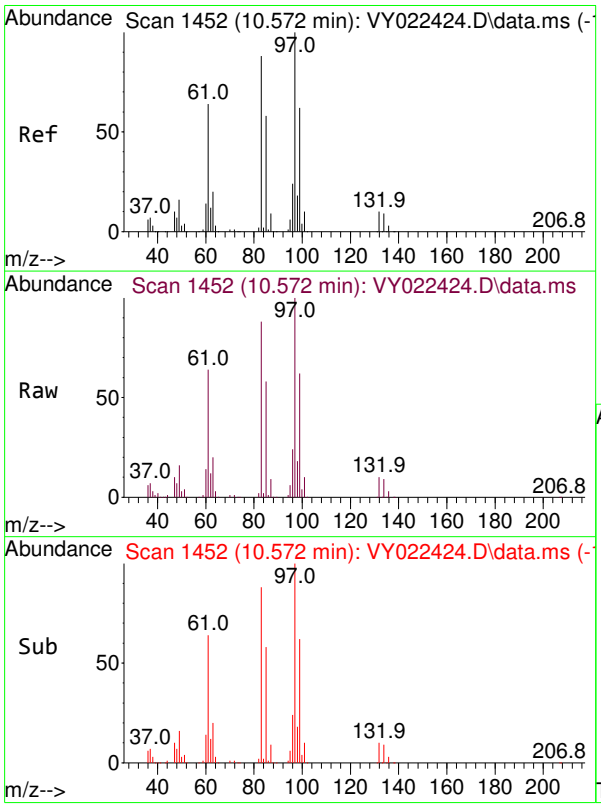


#54
cis-1,3-Dichloropropene
Concen: 49.683 ug/l
RT: 9.859 min Scan# 1335
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 75 Resp: 213990

Ion	Ratio	Lower	Upper
75	100		
77	31.8	25.4	38.2
39	53.1	42.5	63.7

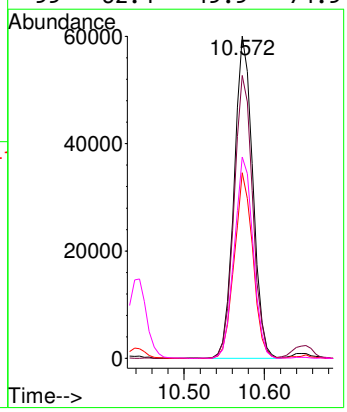




#55
1,1,2-Trichloroethane
Concen: 50.011 ug/l
RT: 10.572 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 97 Resp: 9676

Ion	Ratio	Lower	Upper
97	100		
83	87.8	70.2	105.4
85	57.6	46.1	69.1
99	62.4	49.9	74.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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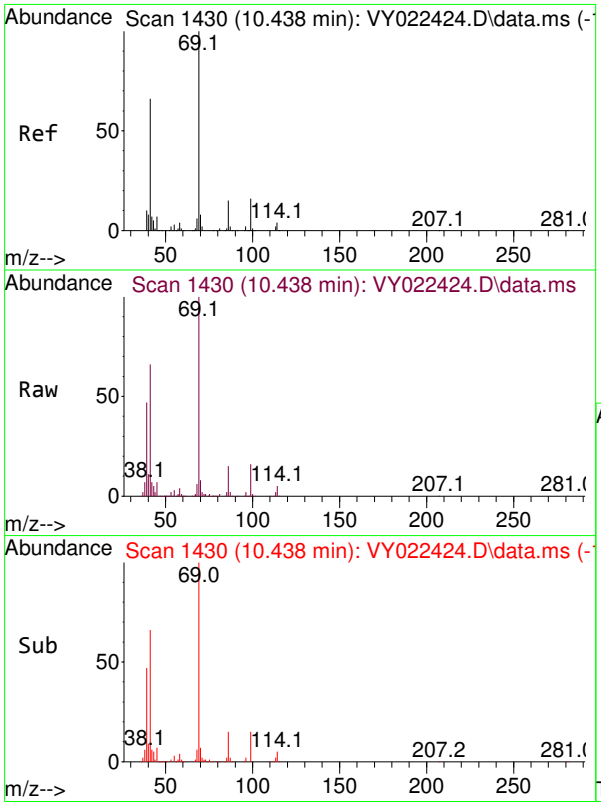
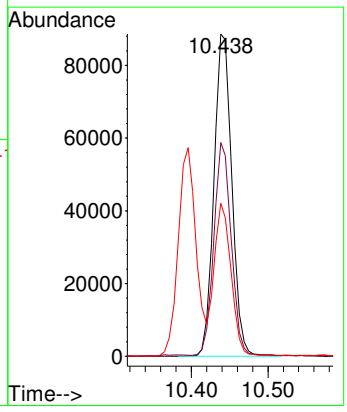
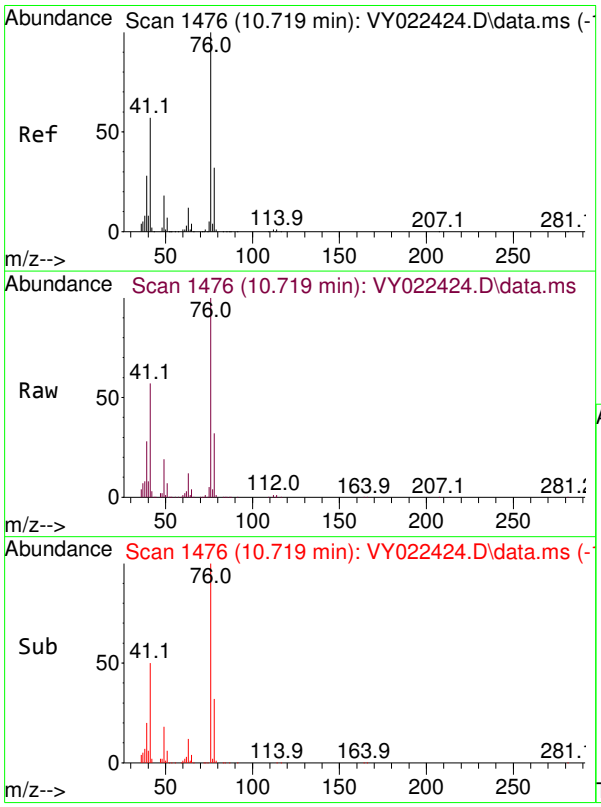


#56
Ethyl methacrylate
Concen: 51.650 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 69 Resp: 143409

Ion	Ratio	Lower	Upper
69	100		
41	64.0	51.2	76.8
39	44.0	35.2	52.8





#57
1,3-Dichloropropane
Concen: 50.093 ug/l
RT: 10.719 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 76 Resp: 17079

Ion	Ratio	Lower	Upper
76	100		
78	32.3	25.8	38.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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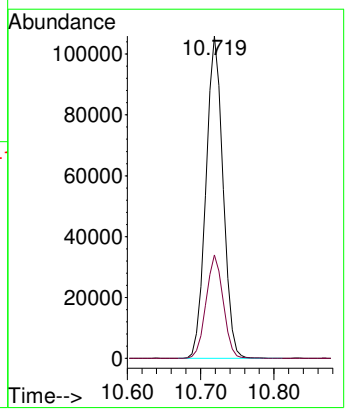
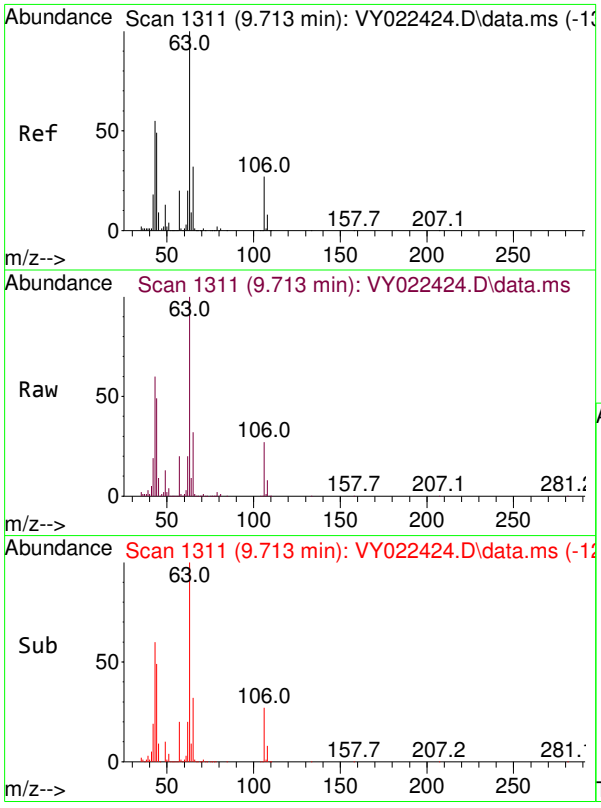
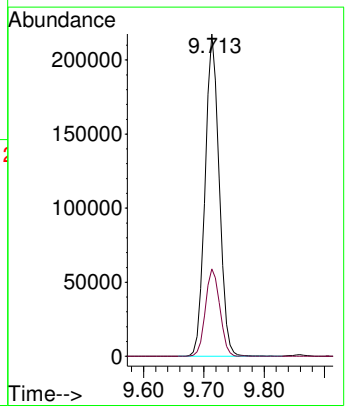


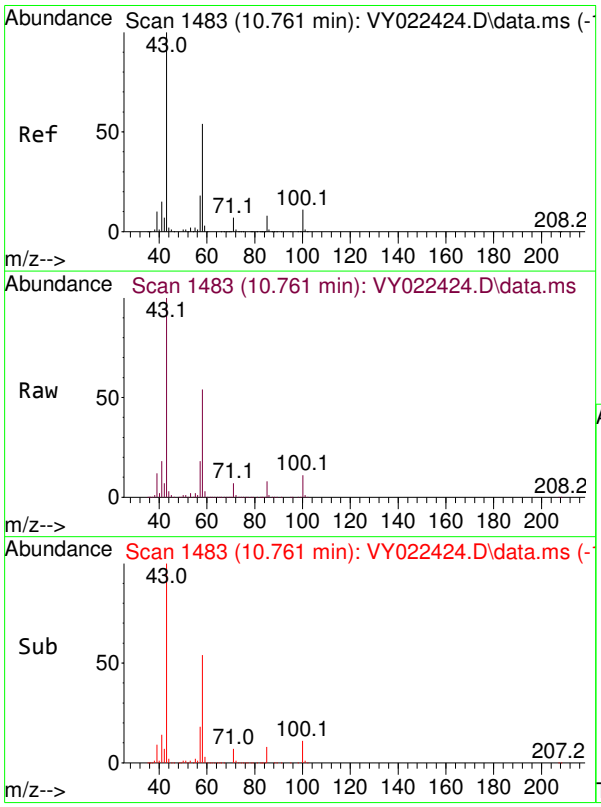


#58
2-Chloroethyl Vinyl ether
Concen: 254.955 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 63 Resp: 352804

Ion	Ratio	Lower	Upper
63	100		
106	27.7	22.2	33.2





#59
2-Hexanone
Concen: 260.045 ug/l
RT: 10.761 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 43 Resp: 30597

Ion	Ratio	Lower	Upper
43	100		
58	54.1	27.1	81.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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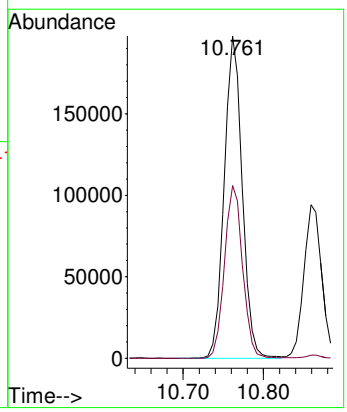
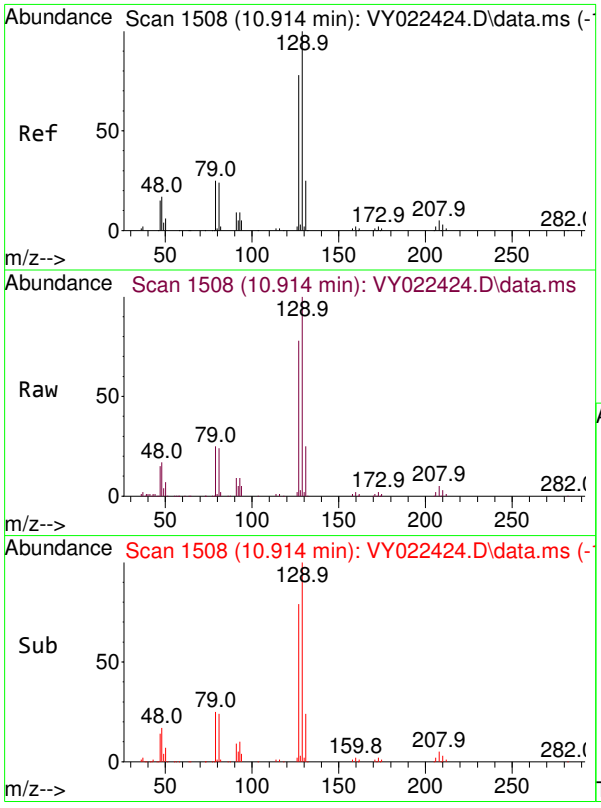
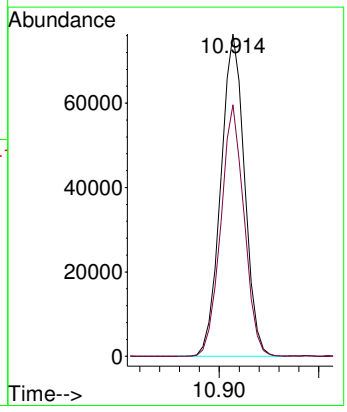


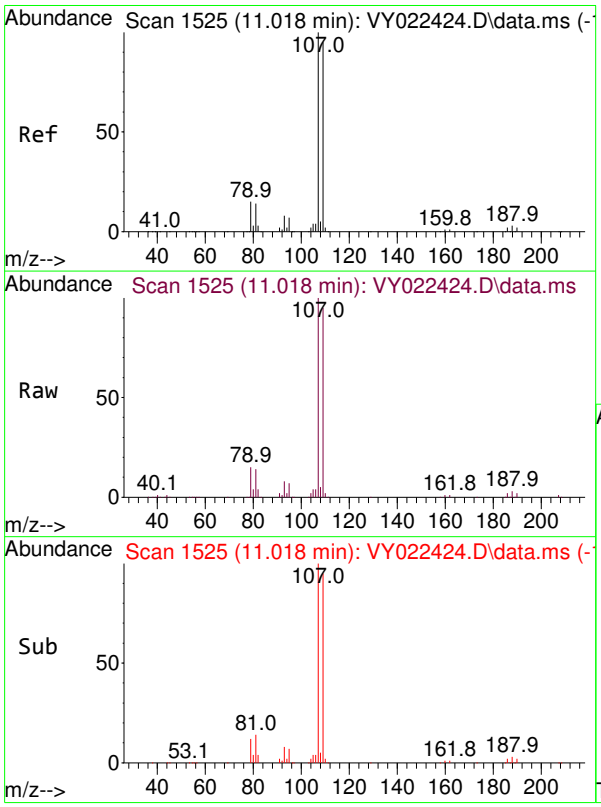


#60
Dibromochloromethane
Concen: 51.479 ug/l
RT: 10.914 min Scan# 1508
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion:129 Resp: 127232

Ion	Ratio	Lower	Upper
129	100		
127	76.5	38.3	114.8





#61
1,2-Dibromoethane
Concen: 51.221 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion:107 Resp: 9064

Ion	Ratio	Lower	Upper
107	100		
109	92.5	74.0	111.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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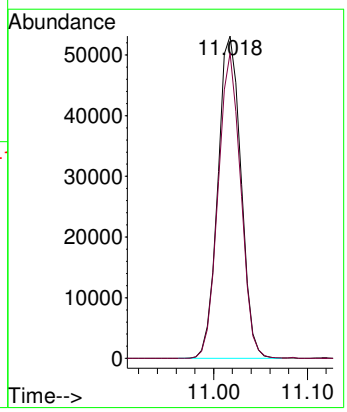
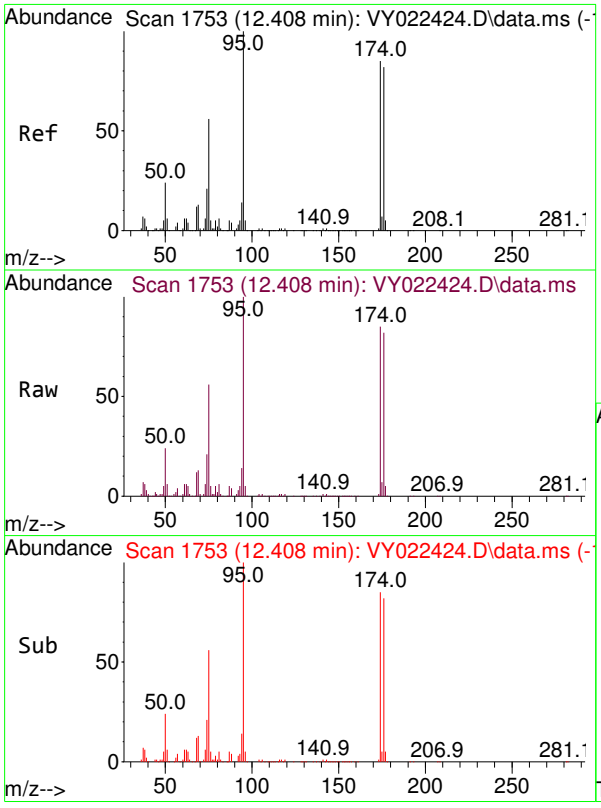
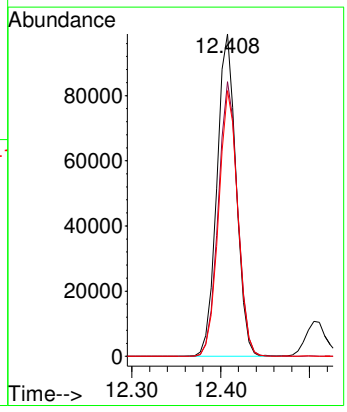


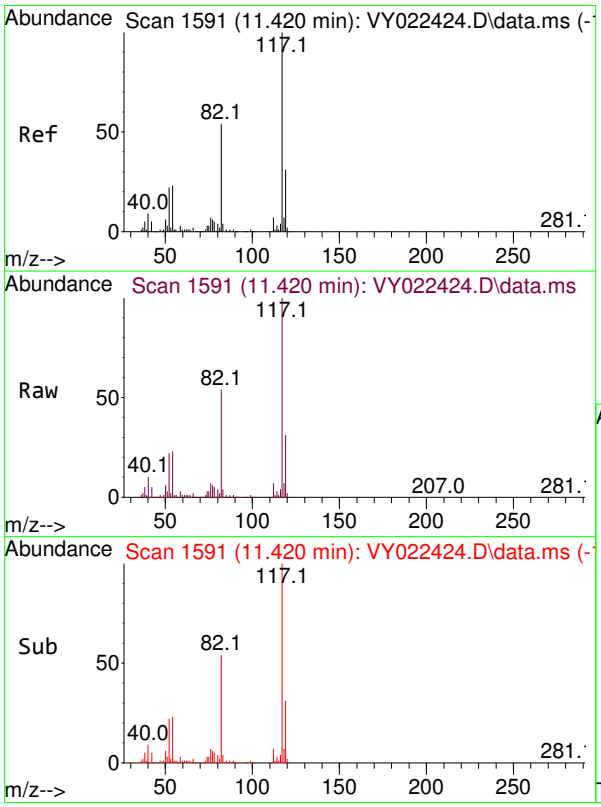


#62
4-Bromofluorobenzene
Concen: 49.160 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 95 Resp: 149686

Ion	Ratio	Lower	Upper
95	100		
174	85.8	0.0	171.6
176	82.3	0.0	164.6

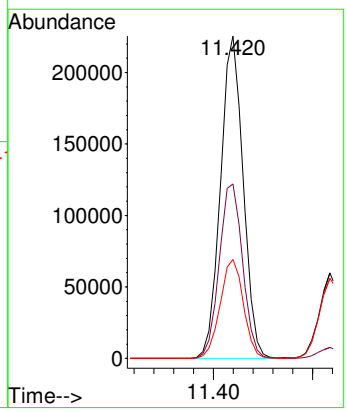




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion:117 Resp: 35938

Ion	Ratio	Lower	Upper
117	100		
82	54.1	43.3	64.9
119	30.6	24.5	36.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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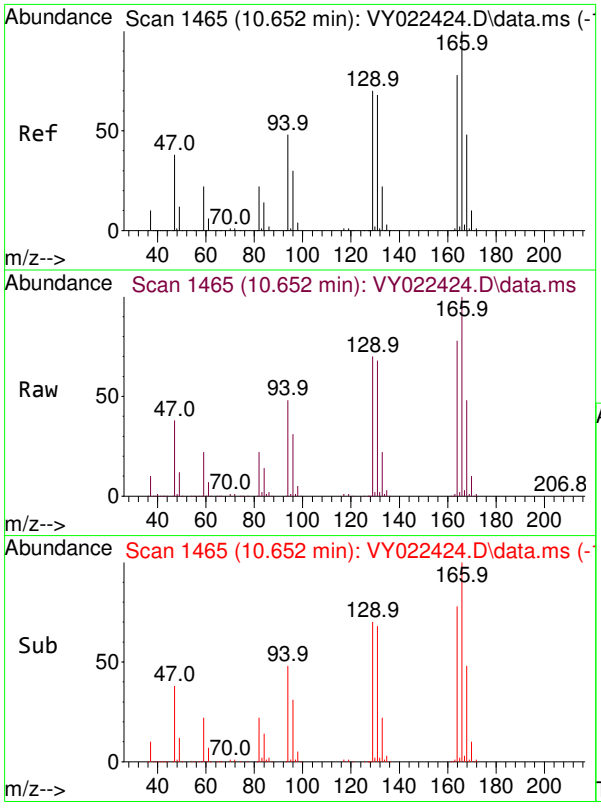
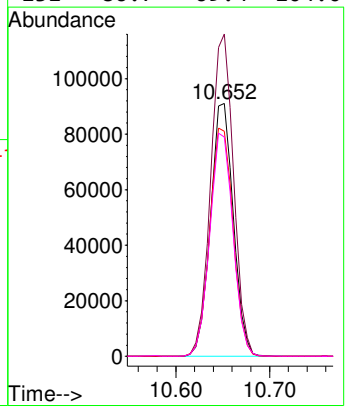
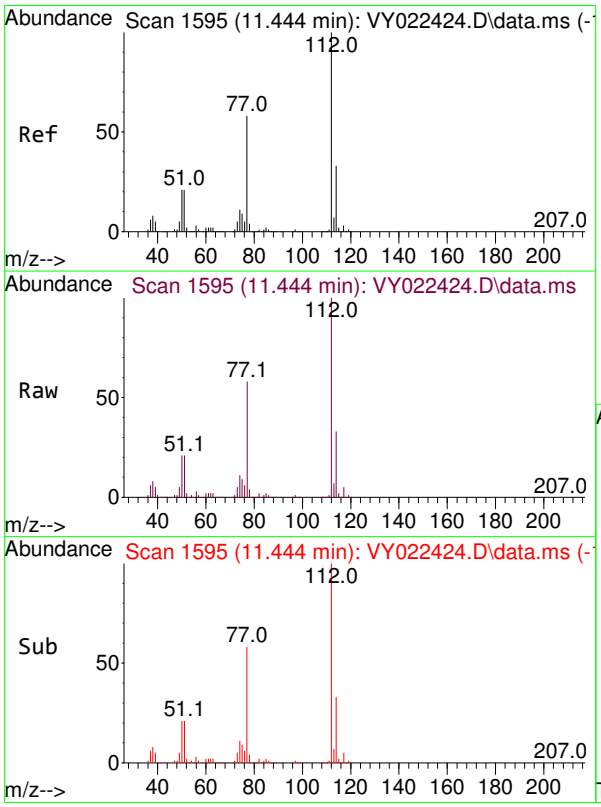


#64
Tetrachloroethene
Concen: 50.371 ug/l
RT: 10.652 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion:164 Resp: 154172

Ion	Ratio	Lower	Upper
164	100		
166	127.5	102.0	153.0
129	89.1	71.3	106.9
131	86.7	69.4	104.0





#65
Chlorobenzene
Concen: 50.045 ug/l
RT: 11.444 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion:112 Resp: 38350

Ion	Ratio	Lower	Upper
112	100		
114	32.6	26.1	39.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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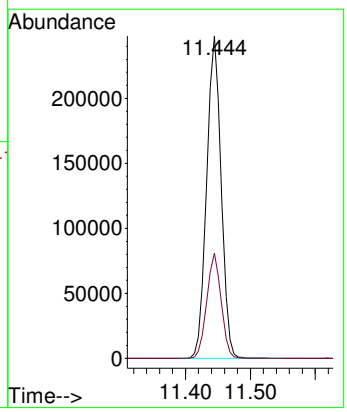
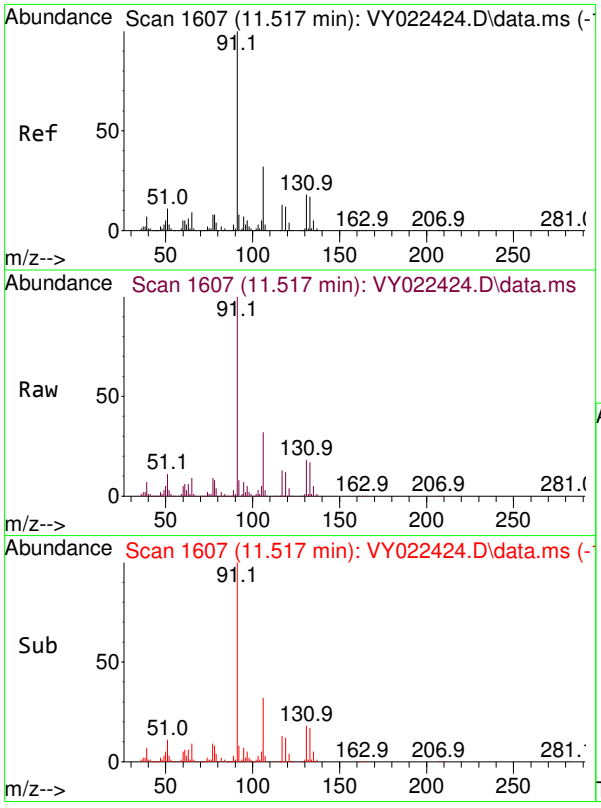
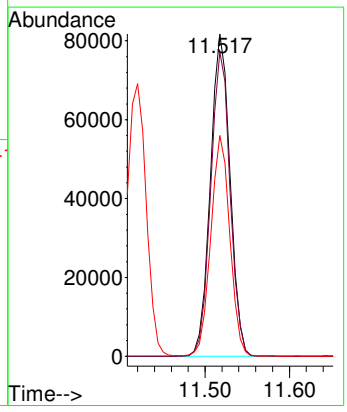


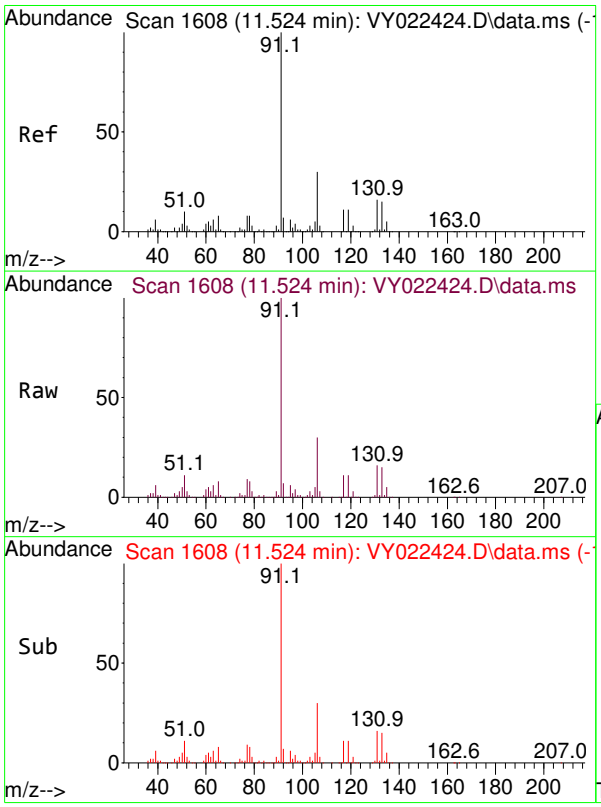


#66
1,1,1,2-Tetrachloroethane
Concen: 51.108 ug/l
RT: 11.517 min Scan# 1607
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion:131 Resp: 132697

Ion	Ratio	Lower	Upper
131	100		
133	93.2	46.6	139.8
119	66.5	33.3	99.8





#67
Ethyl Benzene
Concen: 50.007 ug/l
RT: 11.524 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 91 Resp: 71155

Ion	Ratio	Lower	Upper
91	100		
106	30.5	24.4	36.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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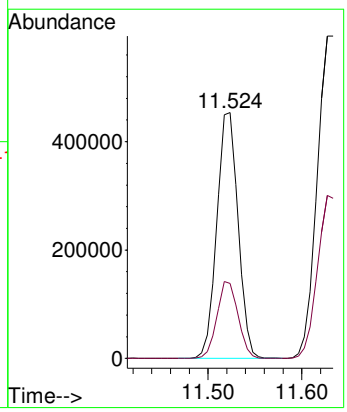
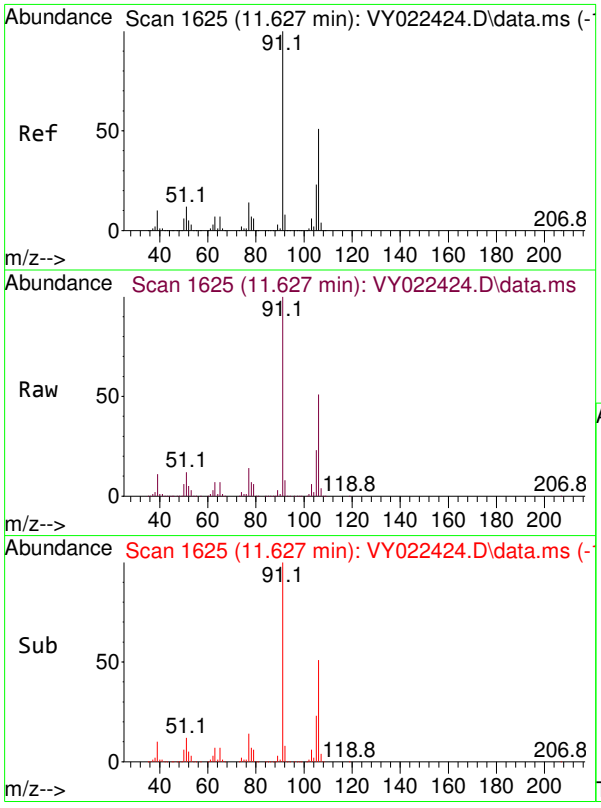
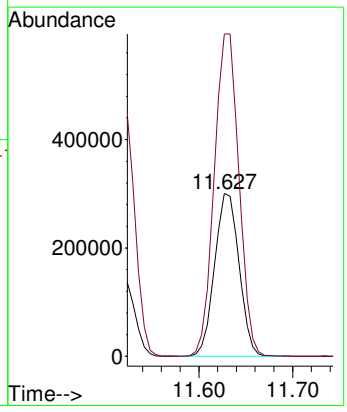


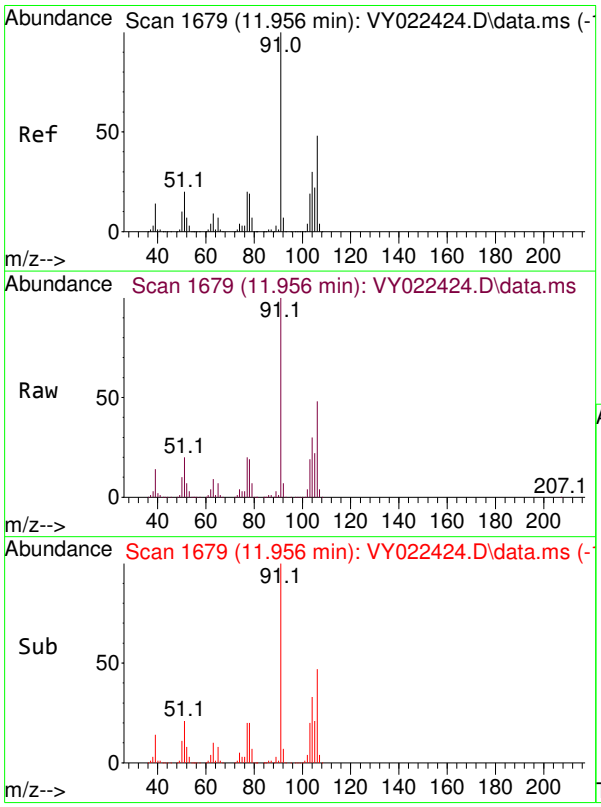


#68
m/p-Xylenes
Concen: 100.776 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion:106 Resp: 543665

Ion	Ratio	Lower	Upper
106	100		
91	199.8	159.8	239.8





#69
o-Xylene
Concen: 50.270 ug/l
RT: 11.956 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion:106 Resp: 25488

Ion	Ratio	Lower	Upper
106	100		
91	212.6	106.3	318.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
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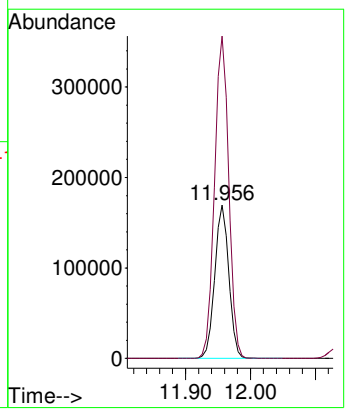
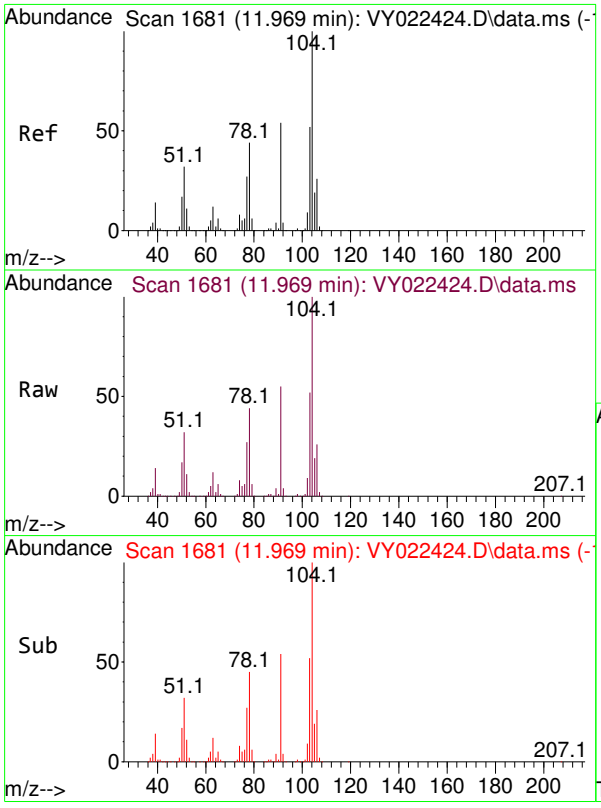
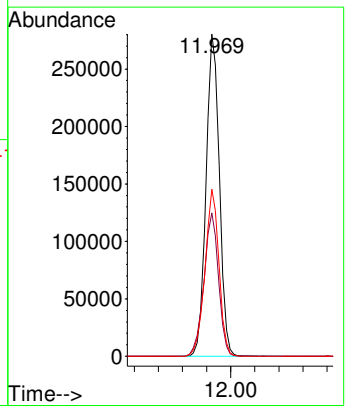


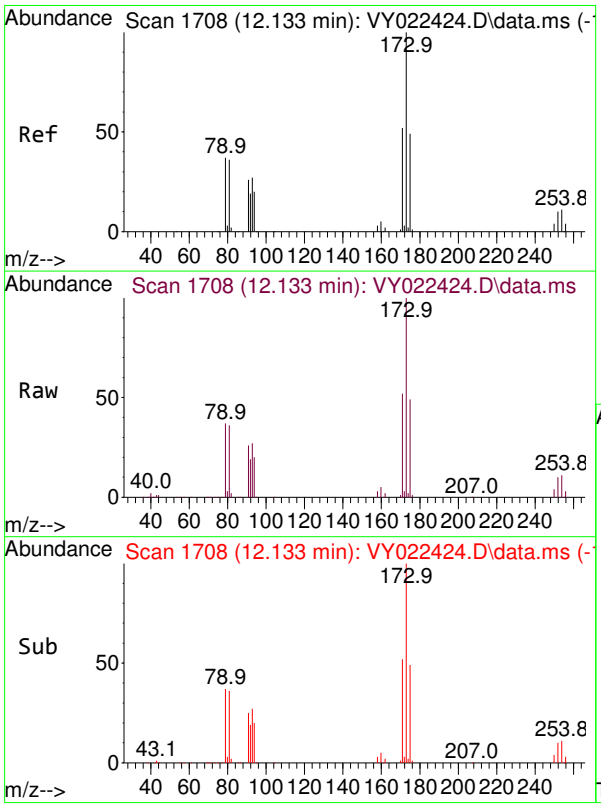


#70
Styrene
Concen: 50.969 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion:104 Resp: 430304

Ion	Ratio	Lower	Upper
104	100		
78	48.5	38.8	58.2
103	54.3	43.4	65.2

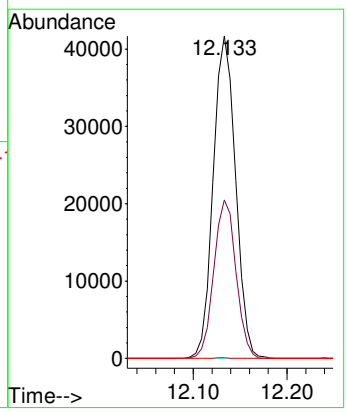




#71
Bromoform
Concen: 50.626 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion:173 Resp: 6885

Ion	Ratio	Lower	Upper
173	100		
175	48.7	24.3	73.0
254	0.1	0.1	0.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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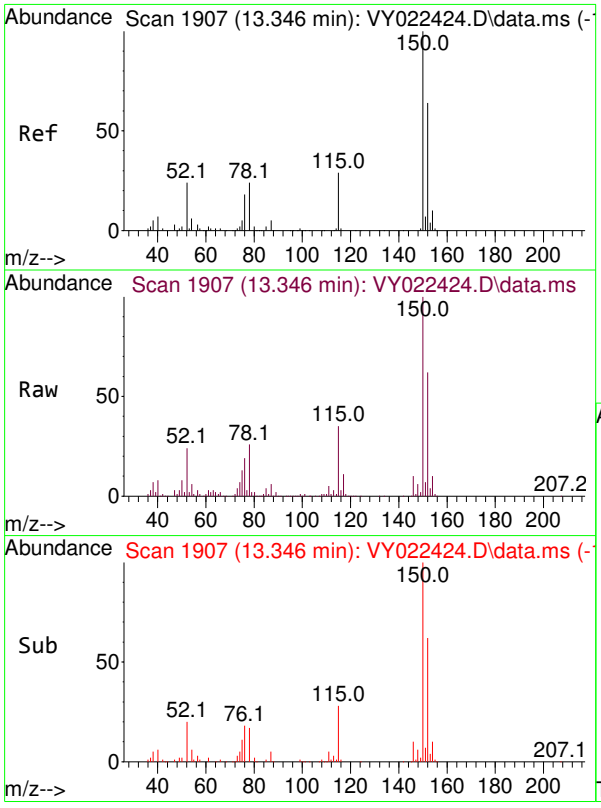
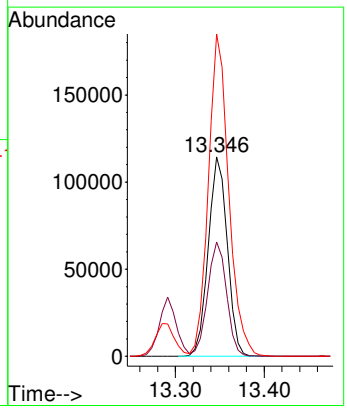
Supervised By :Mahesh Dadoda 05/28/2025

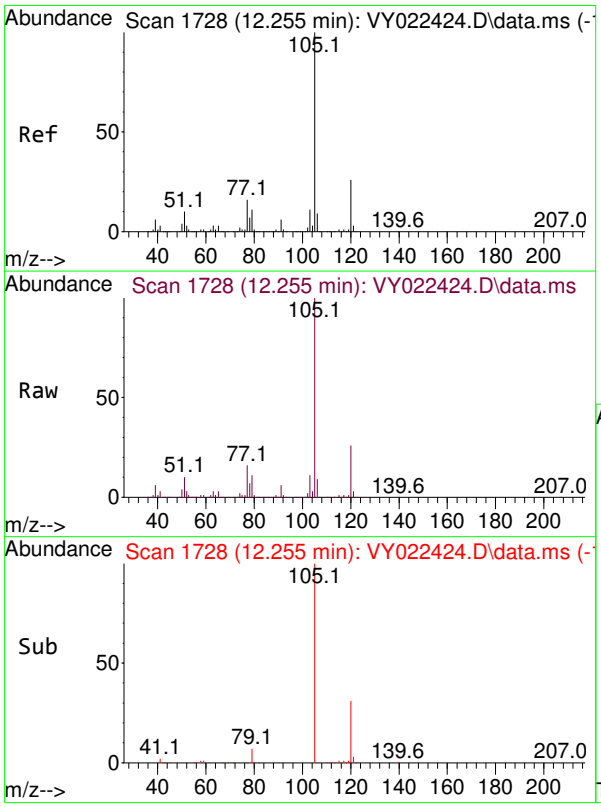


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion:152 Resp: 170568

Ion	Ratio	Lower	Upper
152	100		
115	56.9	28.4	85.3
150	172.9	0.0	345.8





#73
Isopropylbenzene
Concen: 49.183 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion:105 Resp: 66024

Ion	Ratio	Lower	Upper
105	100		
120	26.3	13.2	39.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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Reviewed By :Amit Patel 05/28/2025
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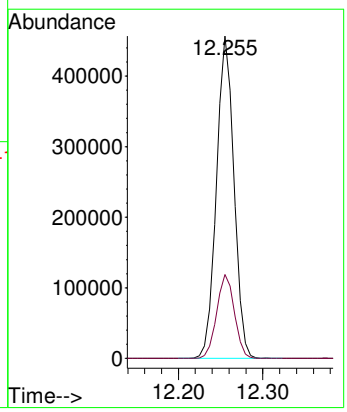
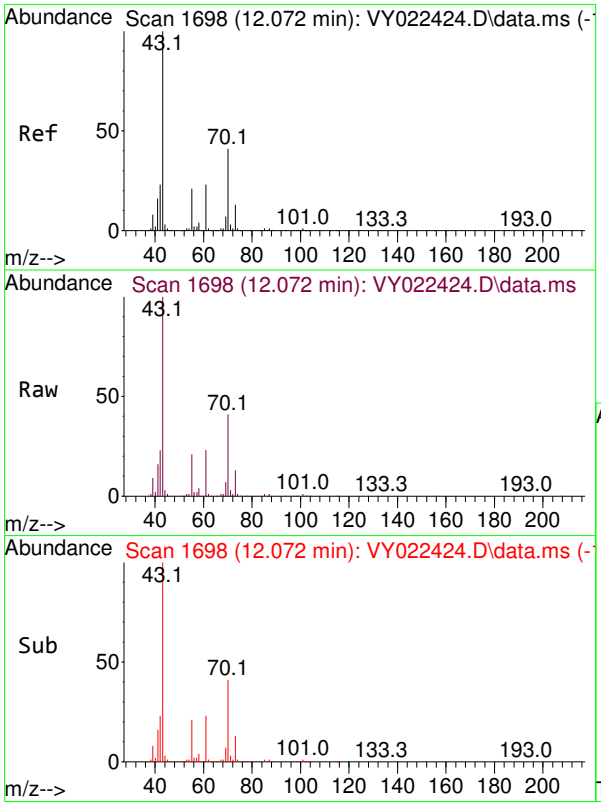
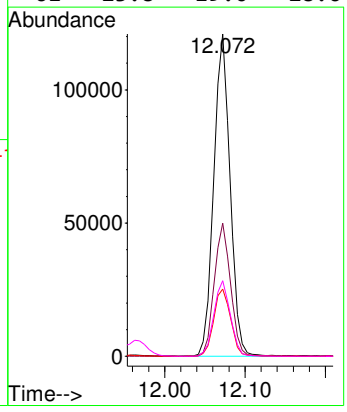


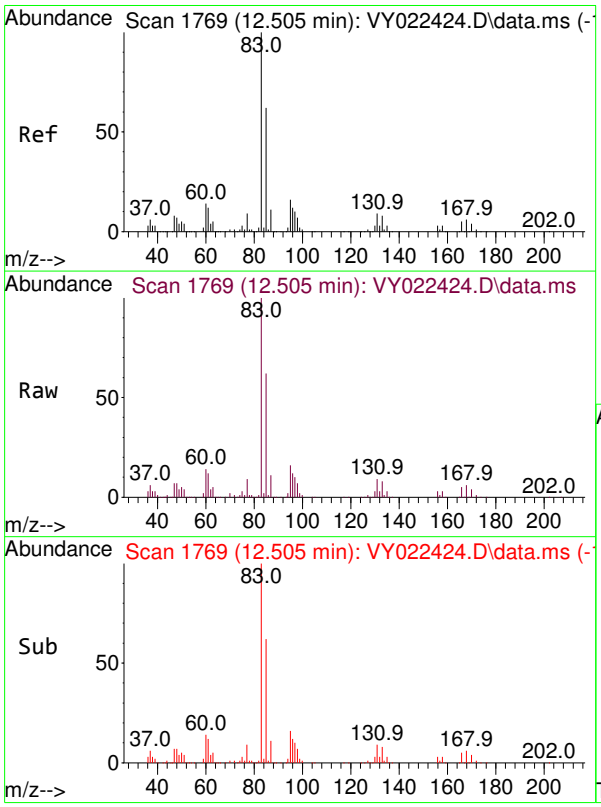


#74
N-amyl acetate
Concen: 51.919 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 43 Resp: 170547

Ion	Ratio	Lower	Upper
43	100		
70	41.2	33.0	49.4
55	21.9	17.5	26.3
61	23.8	19.0	28.6





#75
1,1,2,2-Tetrachloroethane
Concen: 49.575 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 83 Resp: 10485

Ion	Ratio	Lower	Upper
83	100		
131	9.6	4.8	14.4
85	64.1	32.0	96.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
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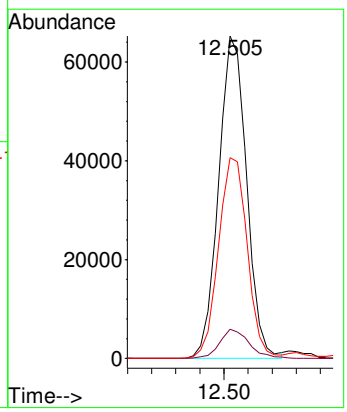
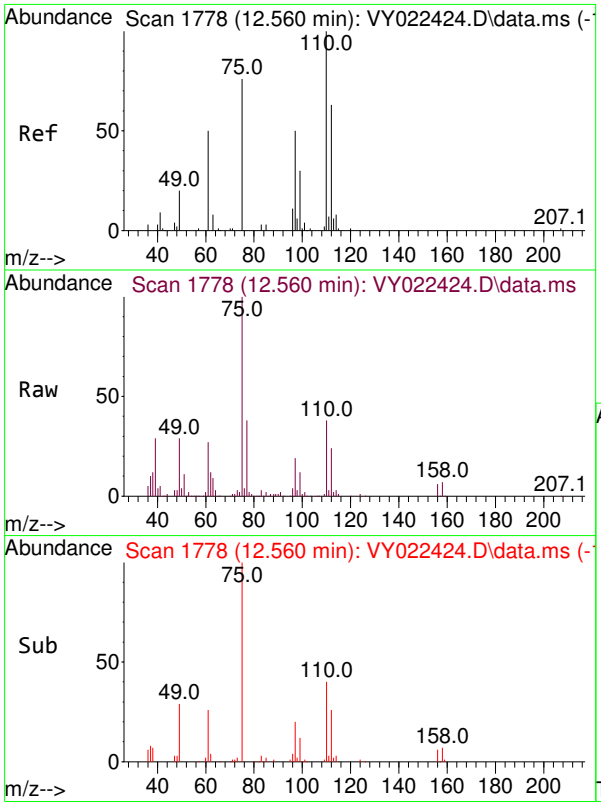
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

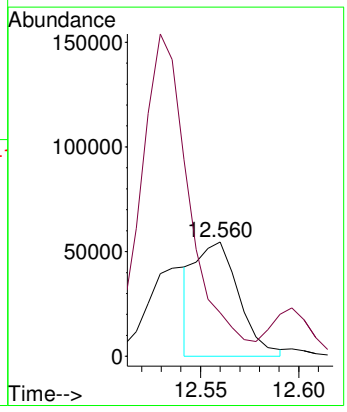


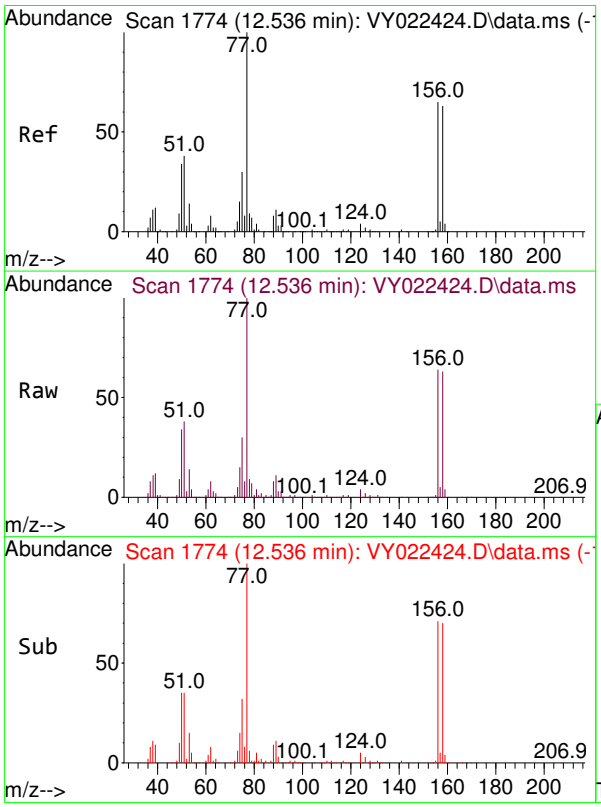


#76
1,2,3-Trichloropropane
Concen: 29.820 ug/l m
RT: 12.560 min Scan# 1778
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 75 Resp: 83801

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0





#77
Bromobenzene
Concen: 50.230 ug/l
RT: 12.536 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion:156 Resp: 14510

Ion	Ratio	Lower	Upper
156	100		
77	182.8	91.4	274.2
158	96.2	48.1	144.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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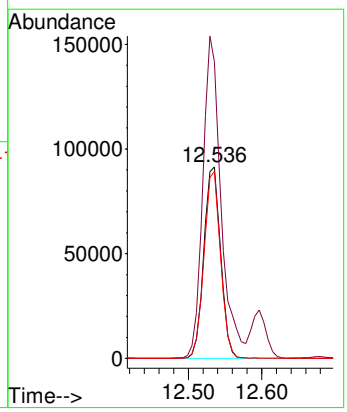
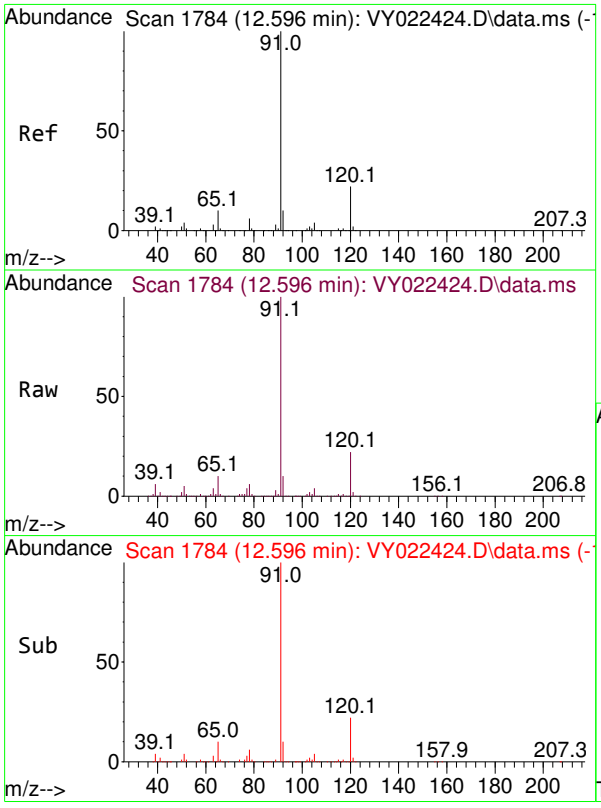
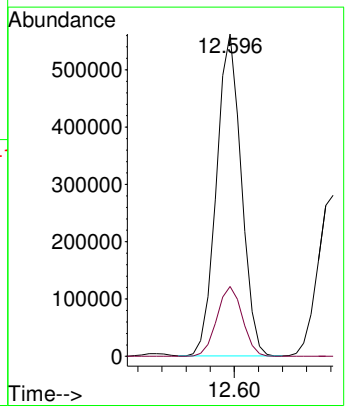


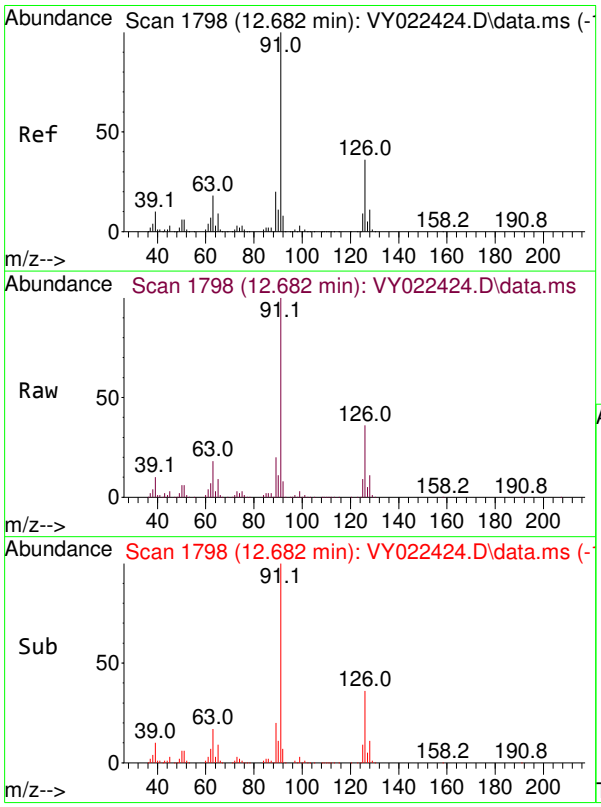


#78
n-propylbenzene
Concen: 49.859 ug/l
RT: 12.596 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 91 Resp: 803233

Ion	Ratio	Lower	Upper
91	100		
120	22.3	11.2	33.5





#79
2-Chlorotoluene
Concen: 49.254 ug/l
RT: 12.682 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 91 Resp: 42953

Ion	Ratio	Lower	Upper
91	100		
126	34.9	17.4	52.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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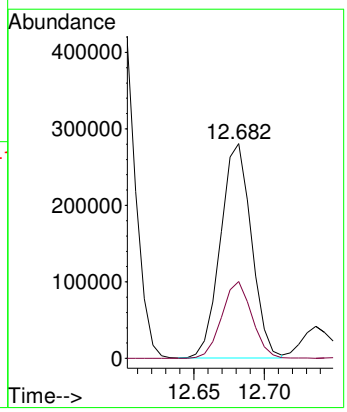
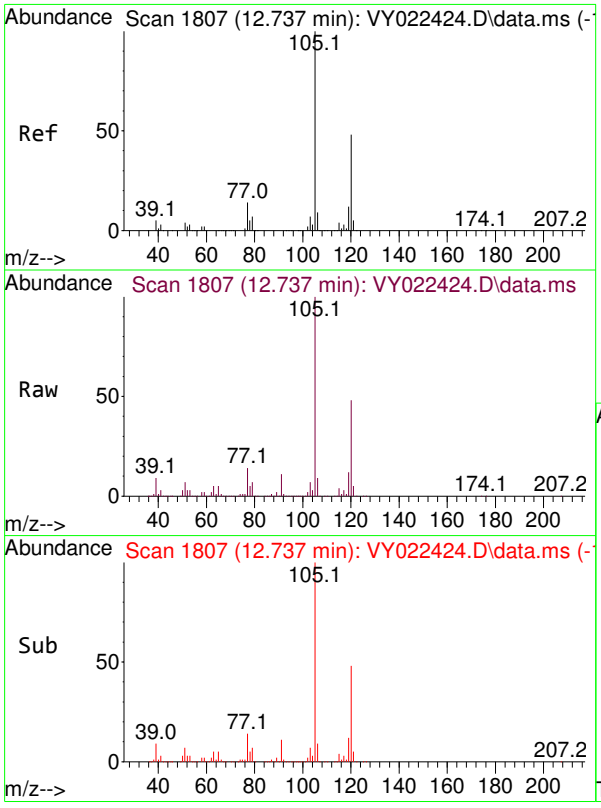
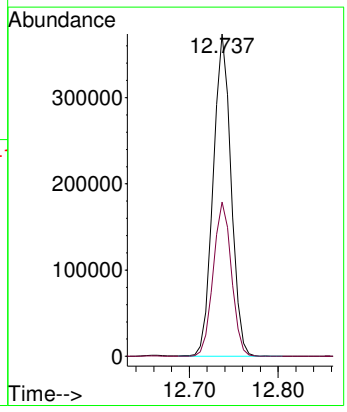


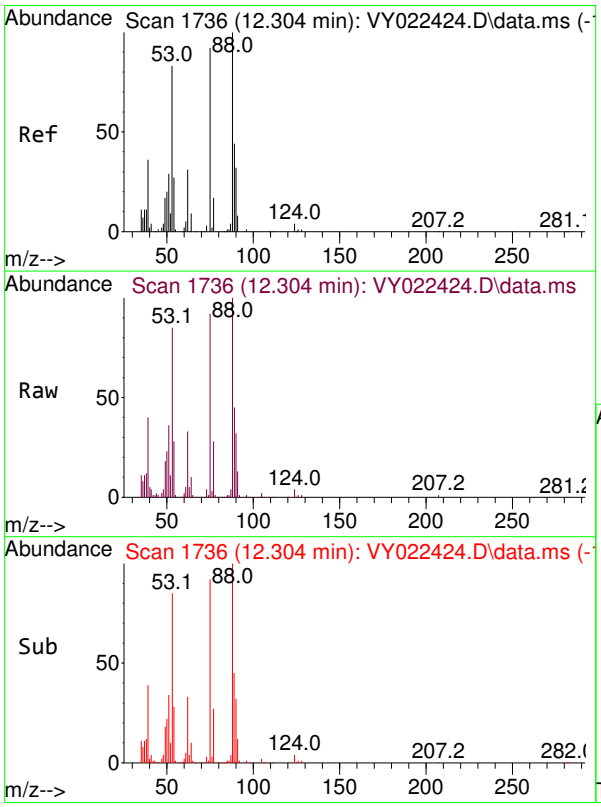


#80
1,3,5-Trimethylbenzene
Concen: 50.070 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion:105 Resp: 525186

Ion	Ratio	Lower	Upper
105	100		
120	48.7	24.3	73.0





#81
trans-1,4-Dichloro-2-butene
Concen: 48.597 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 75 Resp: 3671

Ion	Ratio	Lower	Upper
75	100		
53	93.9	75.1	112.7
89	46.7	37.4	56.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
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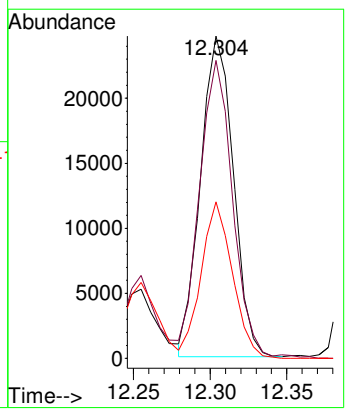
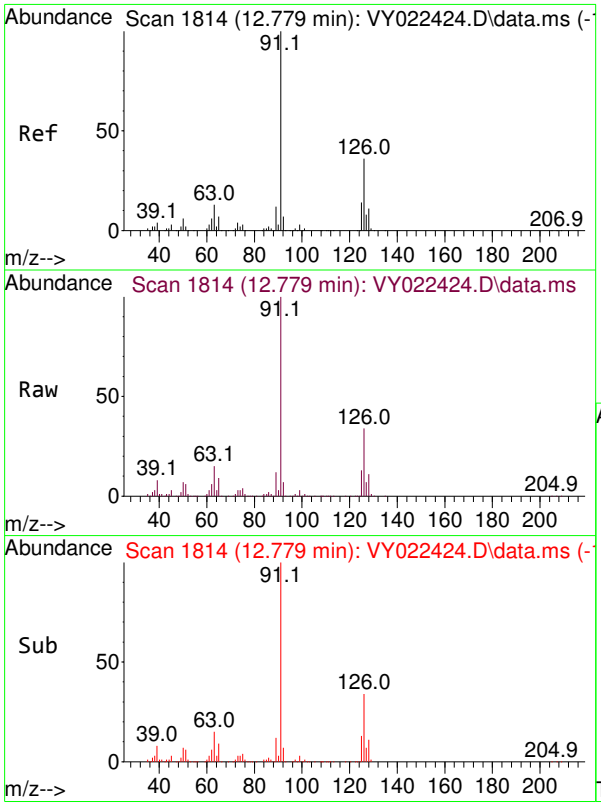
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

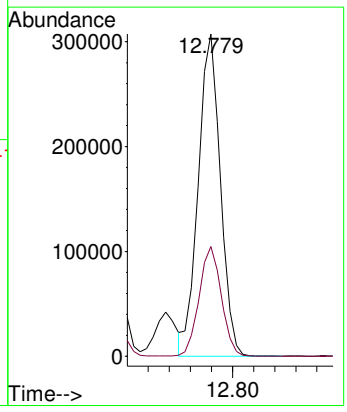


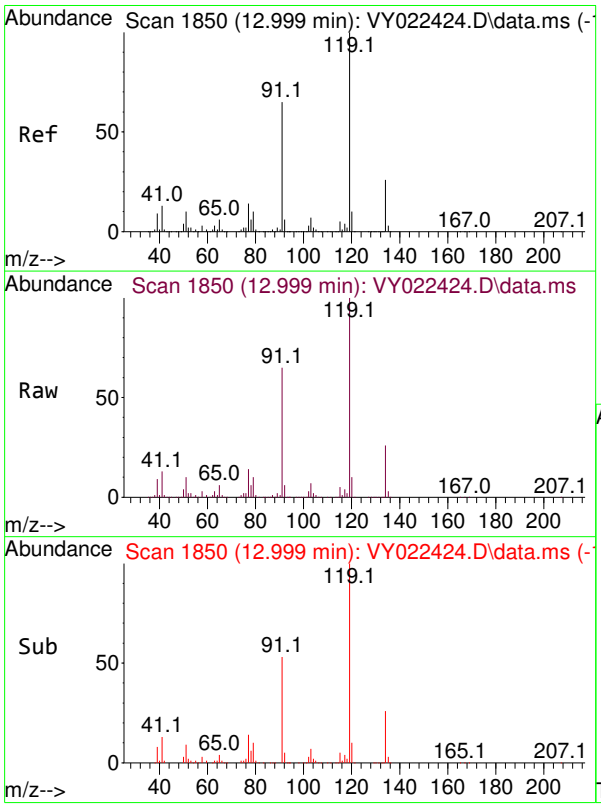


#82
4-Chlorotoluene
Concen: 49.734 ug/l
RT: 12.779 min Scan# 1814
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 91 Resp: 446697

Ion	Ratio	Lower	Upper
91	100		
126	34.4	17.2	51.6





#83
tert-Butylbenzene
Concen: 49.598 ug/l
RT: 12.999 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion:119 Resp: 47002

Ion	Ratio	Lower	Upper
119	100		
91	63.5	31.8	95.3
134	25.9	13.0	38.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
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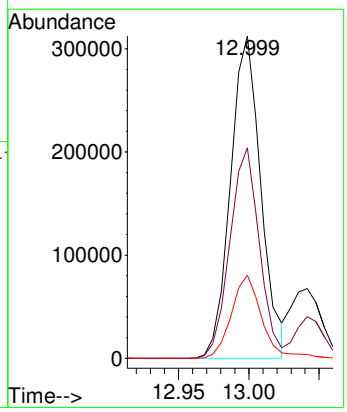
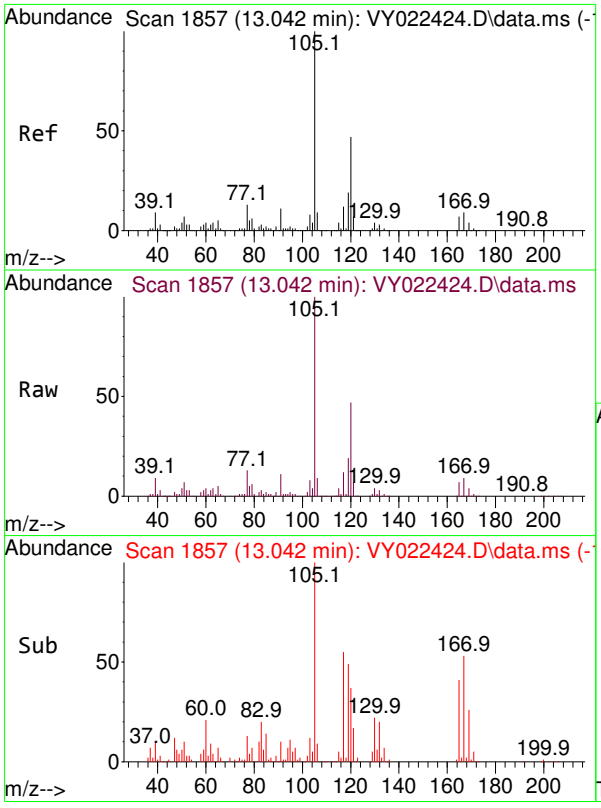
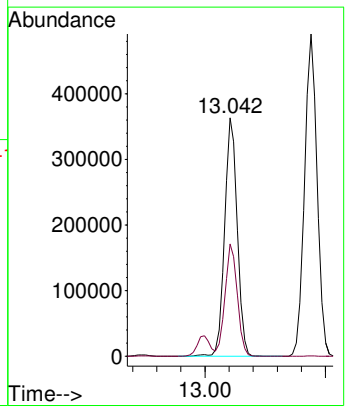


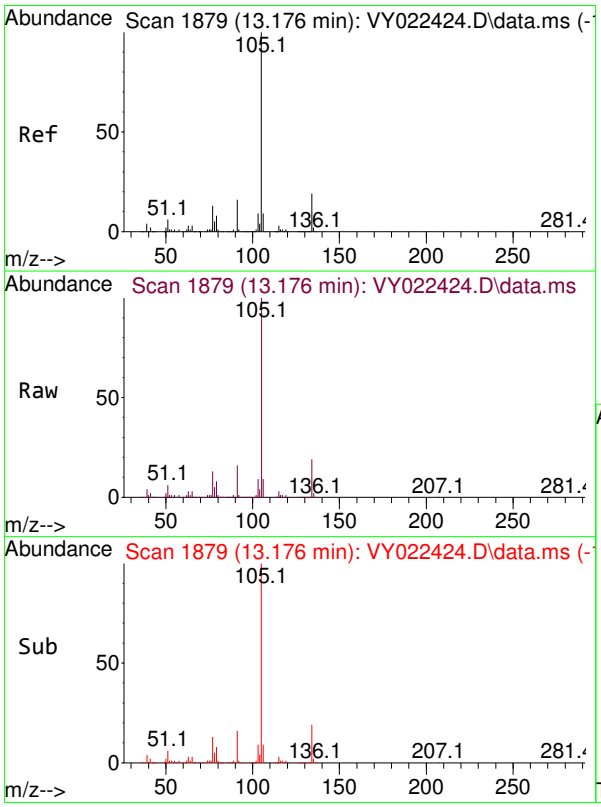


#84
1,2,4-Trimethylbenzene
Concen: 50.324 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion:105 Resp: 531189

Ion	Ratio	Lower	Upper
105	100		
120	45.7	22.9	68.5





#85
sec-Butylbenzene
Concen: 50.266 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion:105 Resp: 70645

Ion	Ratio	Lower	Upper
105	100		
134	19.4	9.7	29.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

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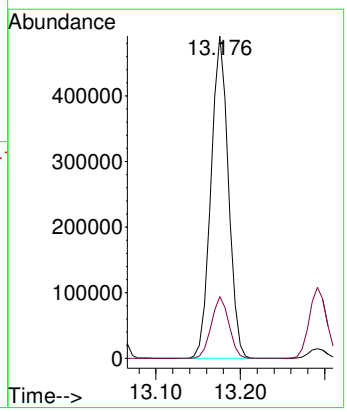
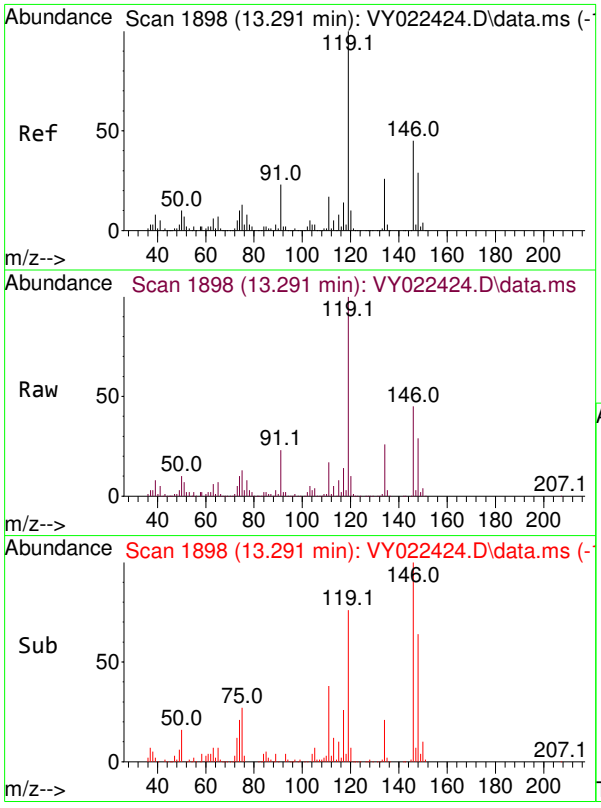
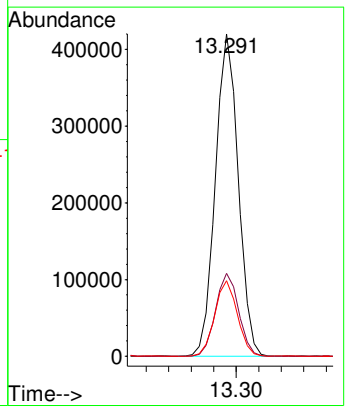


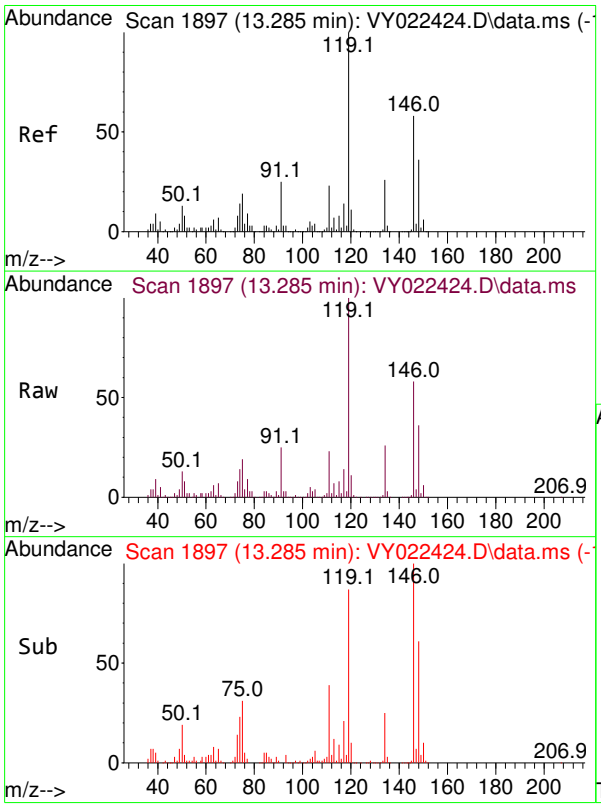


#86
p-Isopropyltoluene
Concen: 50.450 ug/l
RT: 13.291 min Scan# 1898
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion:119 Resp: 592083

Ion	Ratio	Lower	Upper
119	100		
134	26.0	13.0	39.0
91	23.2	11.6	34.8





#87
1,3-Dichlorobenzene
Concen: 49.731 ug/l
RT: 13.285 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion:146 Resp: 28907

Ion	Ratio	Lower	Upper
146	100		
111	39.2	19.6	58.8
148	63.4	31.7	95.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
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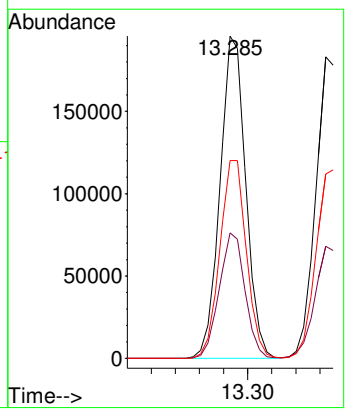
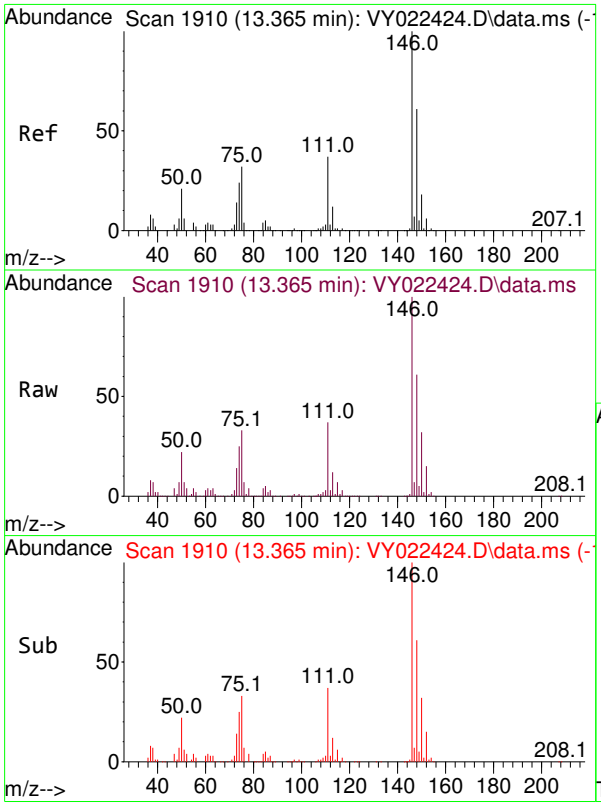
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

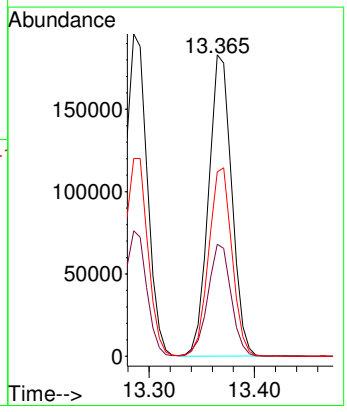


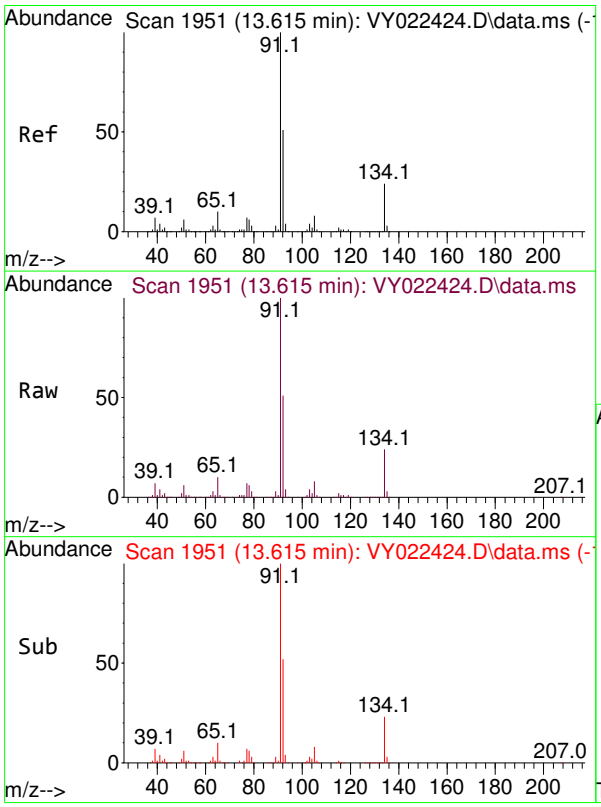


#88
1,4-Dichlorobenzene
Concen: 50.380 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion:146 Resp: 280006

Ion	Ratio	Lower	Upper
146	100		
111	37.4	18.7	56.1
148	62.9	31.4	94.3

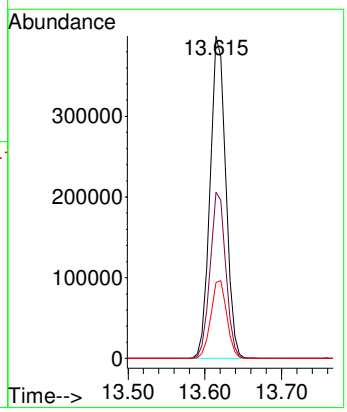




#89
n-Butylbenzene
Concen: 51.626 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 91 Resp: 56808

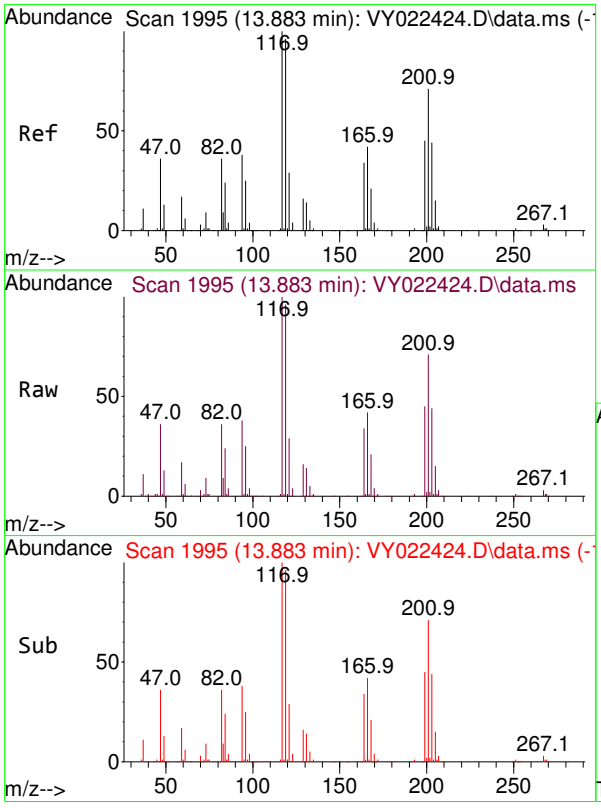
Ion	Ratio	Lower	Upper
91	100		
92	51.7	25.9	77.6
134	24.7	12.4	37.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

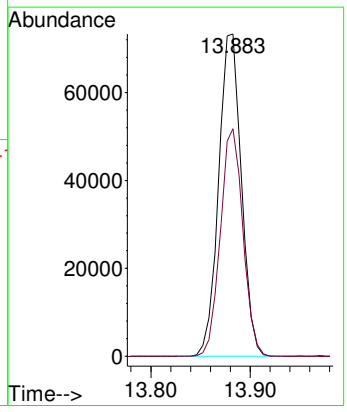
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

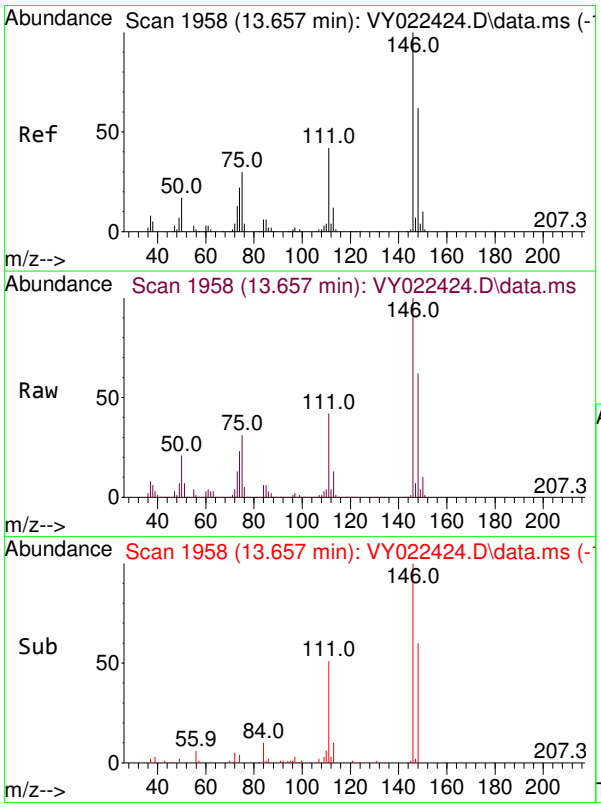


#90
Hexachloroethane
Concen: 50.287 ug/l
RT: 13.883 min Scan# 1995
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion:117 Resp: 117444

Ion	Ratio	Lower	Upper
117	100		
201	70.0	35.0	105.0

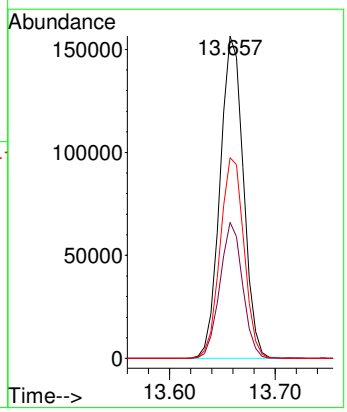




#91
1,2-Dichlorobenzene
Concen: 49.756 ug/l
RT: 13.657 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion:146 Resp: 24156

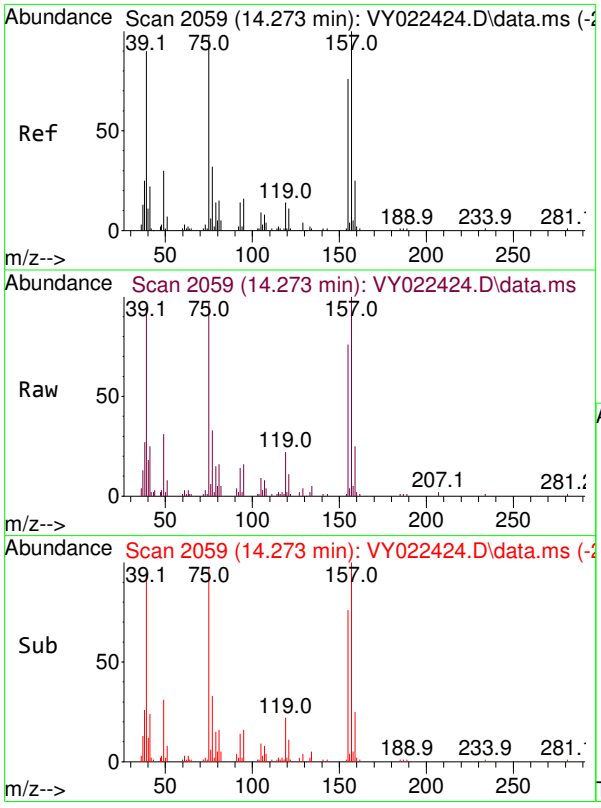
Ion	Ratio	Lower	Upper
146	100		
111	41.1	20.5	61.6
148	63.9	31.9	95.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

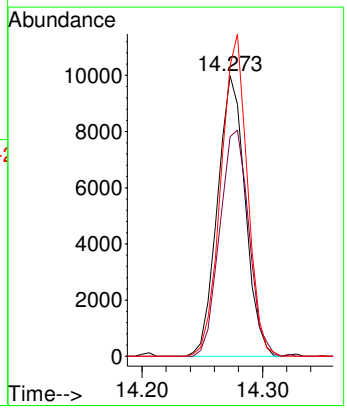
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

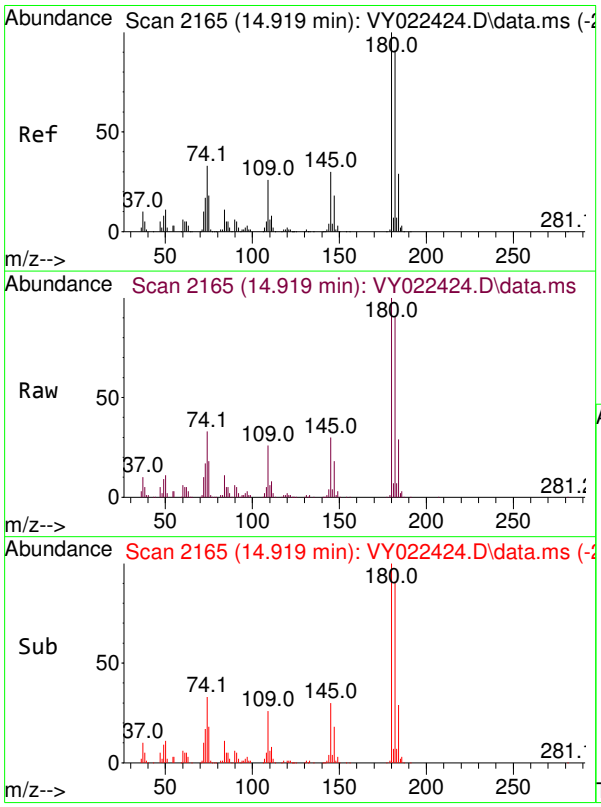


#92
1,2-Dibromo-3-Chloropropane
Concen: 48.741 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 75 Resp: 15930

Ion	Ratio	Lower	Upper
75	100		
155	84.5	42.3	126.8
157	108.9	54.4	163.3

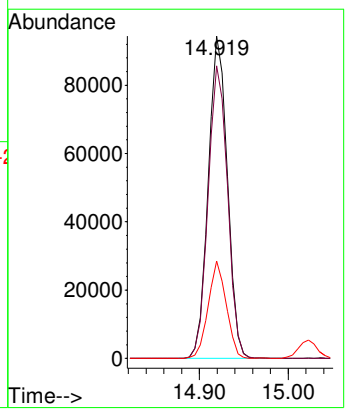




#93
1,2,4-Trichlorobenzene
Concen: 52.462 ug/l
RT: 14.919 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion:180 Resp: 14120

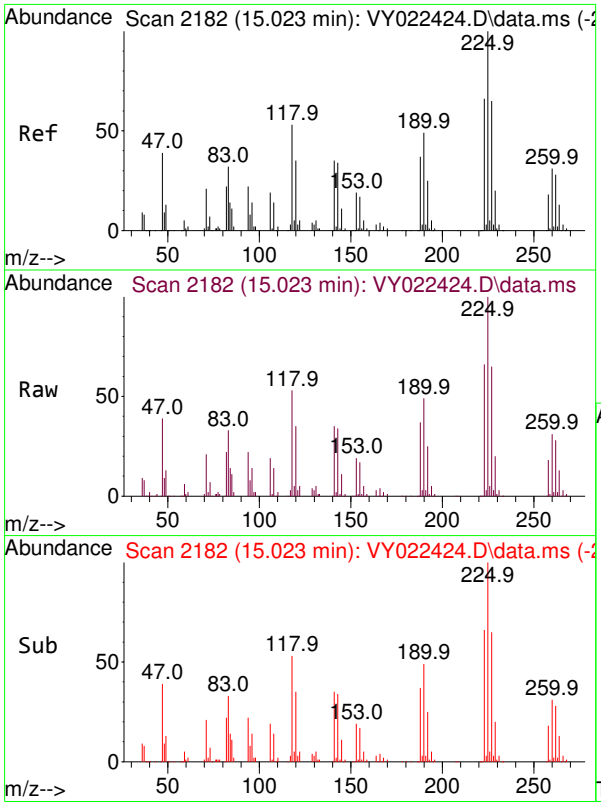
Ion	Ratio	Lower	Upper
180	100		
182	92.4	46.2	138.6
145	28.5	14.2	42.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

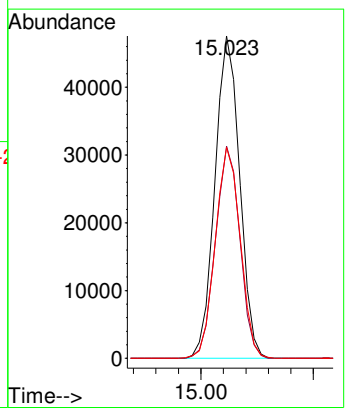
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

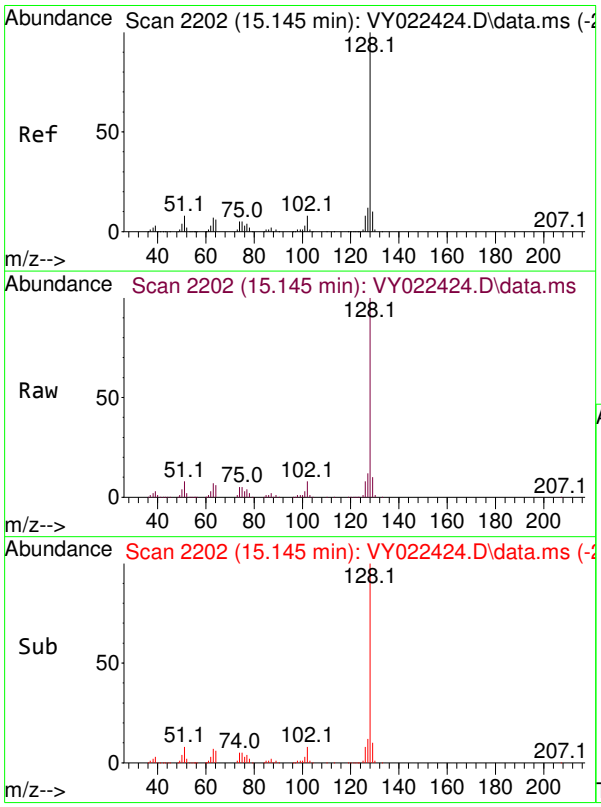


#94
Hexachlorobutadiene
Concen: 51.250 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion:225 Resp: 72391

Ion	Ratio	Lower	Upper
225	100		
223	65.1	32.6	97.7
227	66.0	33.0	99.0





#95
Naphthalene
Concen: 53.269 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

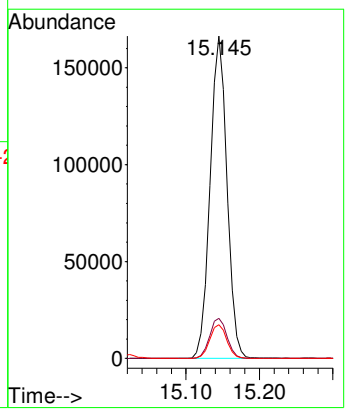
Tgt Ion:128 Resp: 26505

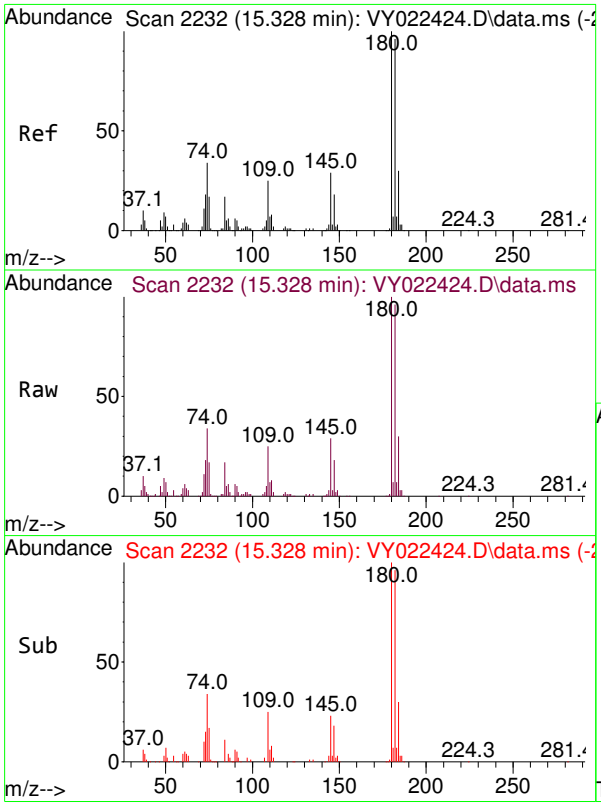
Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.2	15.4
129	10.6	8.5	12.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

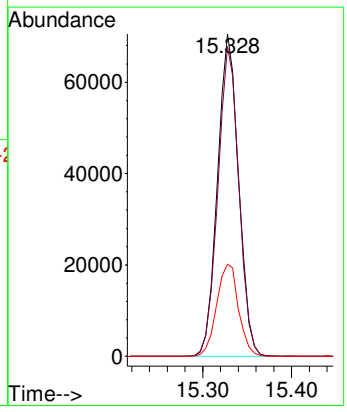




#96
1,2,3-Trichlorobenzene
Concen: 52.826 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion:180 Resp: 116609

Ion	Ratio	Lower	Upper
180	100		
182	96.2	48.1	144.3
145	29.7	14.9	44.5



ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022425.D
Acq On : 27 May 2025 10:22
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

Quant Time: May 28 10:00:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 09:30:53 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	254497	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.622	114	420045	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	364148	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	175436	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	275425	102.746	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 205.500%#			
35) Dibromofluoromethane	7.640	113	259880	105.646	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 211.300%#			
50) Toluene-d8	10.109	98	1070243	106.726	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 213.460%#			
62) 4-Bromofluorobenzene	12.408	95	321108	105.861	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 211.720%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	219107	90.239	ug/l	99
3) Chloromethane	2.074	50	476625	79.803	ug/l	99
4) Vinyl Chloride	2.208	62	657774	90.657	ug/l	97
5) Bromomethane	2.592	94	617342	93.629	ug/l	98
6) Chloroethane	2.739	64	461685	97.376	ug/l	100
7) Trichlorofluoromethane	3.056	101	604374	98.726	ug/l	99
8) Diethyl Ether	3.458	74	144974	102.707	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.824	101	266284	99.149	ug/l	99
10) Methyl Iodide	4.007	142	338872	111.841	ug/l	100
11) Tert butyl alcohol	4.872	59	96979	513.234	ug/l	99
12) 1,1-Dichloroethene	3.793	96	264638	99.249	ug/l	98
13) Acrolein	3.659	56	149071	526.536	ug/l	100
14) Allyl chloride	4.391	41	407614	101.625	ug/l	98
15) Acrylonitrile	5.068	53	299369	526.172	ug/l	99
16) Acetone	3.879	43	219178	497.574	ug/l #	88
17) Carbon Disulfide	4.110	76	851273	100.043	ug/l	100
18) Methyl Acetate	4.391	43	178729	108.317	ug/l	100
19) Methyl tert-butyl Ether	5.122	73	735411	103.886	ug/l	99
20) Methylene Chloride	4.623	84	279934	89.995	ug/l	97
21) trans-1,2-Dichloroethene	5.122	96	296339	101.801	ug/l	97
22) Diisopropyl ether	6.025	45	906611	102.415	ug/l	99
23) Vinyl Acetate	5.964	43	2634055	518.224	ug/l	99
24) 1,1-Dichloroethane	5.921	63	540724	103.372	ug/l	99
25) 2-Butanone	6.903	43	386768	527.215	ug/l	100
26) 2,2-Dichloropropane	6.890	77	482308	101.829	ug/l	99
27) cis-1,2-Dichloroethene	6.896	96	348023	103.273	ug/l	99
28) Bromochloromethane	7.250	49	223498	102.322	ug/l	99
29) Tetrahydrofuran	7.268	42	254076	519.309	ug/l	99
30) Chloroform	7.427	83	535360	103.866	ug/l	99
31) Cyclohexane	7.707	56	481828	93.445	ug/l	98
32) 1,1,1-Trichloroethane	7.622	97	484647	103.605	ug/l	99
36) 1,1-Dichloropropene	7.841	75	405555	103.896	ug/l	99
37) Ethyl Acetate	6.988	43	174471	105.171	ug/l	99
38) Carbon Tetrachloride	7.823	117	428817	105.456	ug/l	99
39) Methylcyclohexane	9.110	83	536153	103.329	ug/l	98
40) Benzene	8.085	78	1229435	105.848	ug/l	100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022425.D
Acq On : 27 May 2025 10:22
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

Quant Time: May 28 10:00:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 09:30:53 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.226	41	107407	49.194	ug/l		94
42) 1,2-Dichloroethane	8.165	62	321758	104.887	ug/l		99
43) Isopropyl Acetate	8.201	43	385296	106.287	ug/l		100
44) Trichloroethene	8.866	130	300293	104.583	ug/l		97
45) 1,2-Dichloropropane	9.146	63	286982	105.160	ug/l		98
46) Dibromomethane	9.231	93	160779	105.464	ug/l		99
47) Bromodichloromethane	9.427	83	413821	105.558	ug/l		96
48) Methyl methacrylate	9.225	41	181931	108.116	ug/l		100
49) 1,4-Dioxane	9.231	88	36343	2158.331	ug/l		96
51) 4-Methyl-2-Pentanone	10.000	43	995669	556.674	ug/l		99
52) Toluene	10.176	92	780350	107.563	ug/l		100
53) t-1,3-Dichloropropene	10.396	75	396365	108.544	ug/l		98
54) cis-1,3-Dichloropropene	9.859	75	460876	107.411	ug/l		98
55) 1,1,2-Trichloroethane	10.573	97	204326	106.007	ug/l		97
56) Ethyl methacrylate	10.439	69	306772	110.908	ug/l		98
57) 1,3-Dichloropropane	10.719	76	359684	105.893	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.713	63	770988	559.284	ug/l		100
59) 2-Hexanone	10.762	43	660980	563.900	ug/l		98
60) Dibromochloromethane	10.914	129	268919	109.221	ug/l		99
61) 1,2-Dibromoethane	11.018	107	187723	106.485	ug/l		98
64) Tetrachloroethene	10.652	164	312696	100.828	ug/l		98
65) Chlorobenzene	11.444	112	824685	106.209	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.518	131	285811	108.640	ug/l		99
67) Ethyl Benzene	11.524	91	1560112	108.210	ug/l		98
68) m/p-Xylenes	11.633	106	1201541	219.811	ug/l		99
69) o-Xylene	11.957	106	559553	108.917	ug/l		100
70) Styrene	11.969	104	959318	112.144	ug/l		99
71) Bromoform	12.133	173	149684	108.623	ug/l	#	100
73) Isopropylbenzene	12.255	105	1440314	104.314	ug/l		100
74) N-amyl acetate	12.072	43	368563	109.087	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.505	83	228832	105.191	ug/l		100
76) 1,2,3-Trichloropropane	12.554	75	178010m	61.586	ug/l		
77) Bromobenzene	12.536	156	305847	102.933	ug/l		97
78) n-propylbenzene	12.597	91	1737515	104.859	ug/l		100
79) 2-Chlorotoluene	12.682	91	934717	104.209	ug/l		99
80) 1,3,5-Trimethylbenzene	12.737	105	1143145	105.961	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.304	75	80556	103.668	ug/l		99
82) 4-Chlorotoluene	12.780	91	972892	105.314	ug/l		100
83) tert-Butylbenzene	12.999	119	1023704	105.025	ug/l		100
84) 1,2,4-Trimethylbenzene	13.042	105	1159943	106.843	ug/l		99
85) sec-Butylbenzene	13.176	105	1528524	105.741	ug/l		99
86) p-Isopropyltoluene	13.292	119	1320591	109.402	ug/l		100
87) 1,3-Dichlorobenzene	13.292	146	644184	107.749	ug/l		100
88) 1,4-Dichlorobenzene	13.371	146	599095	104.800	ug/l		99
89) n-Butylbenzene	13.621	91	1207976	106.731	ug/l		99
90) Hexachloroethane	13.883	117	251685	104.776	ug/l		98
91) 1,2-Dichlorobenzene	13.657	146	524498	105.034	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	32714	97.318	ug/l		97
93) 1,2,4-Trichlorobenzene	14.919	180	295471	106.731	ug/l		98
94) Hexachlorobutadiene	15.023	225	153056	105.350	ug/l		98
95) Naphthalene	15.145	128	568187	111.021	ug/l		99
96) 1,2,3-Trichlorobenzene	15.328	180	246652	108.638	ug/l		98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022425.D
Acq On : 27 May 2025 10:22
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

Quant Time: May 28 10:00:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 09:30:53 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

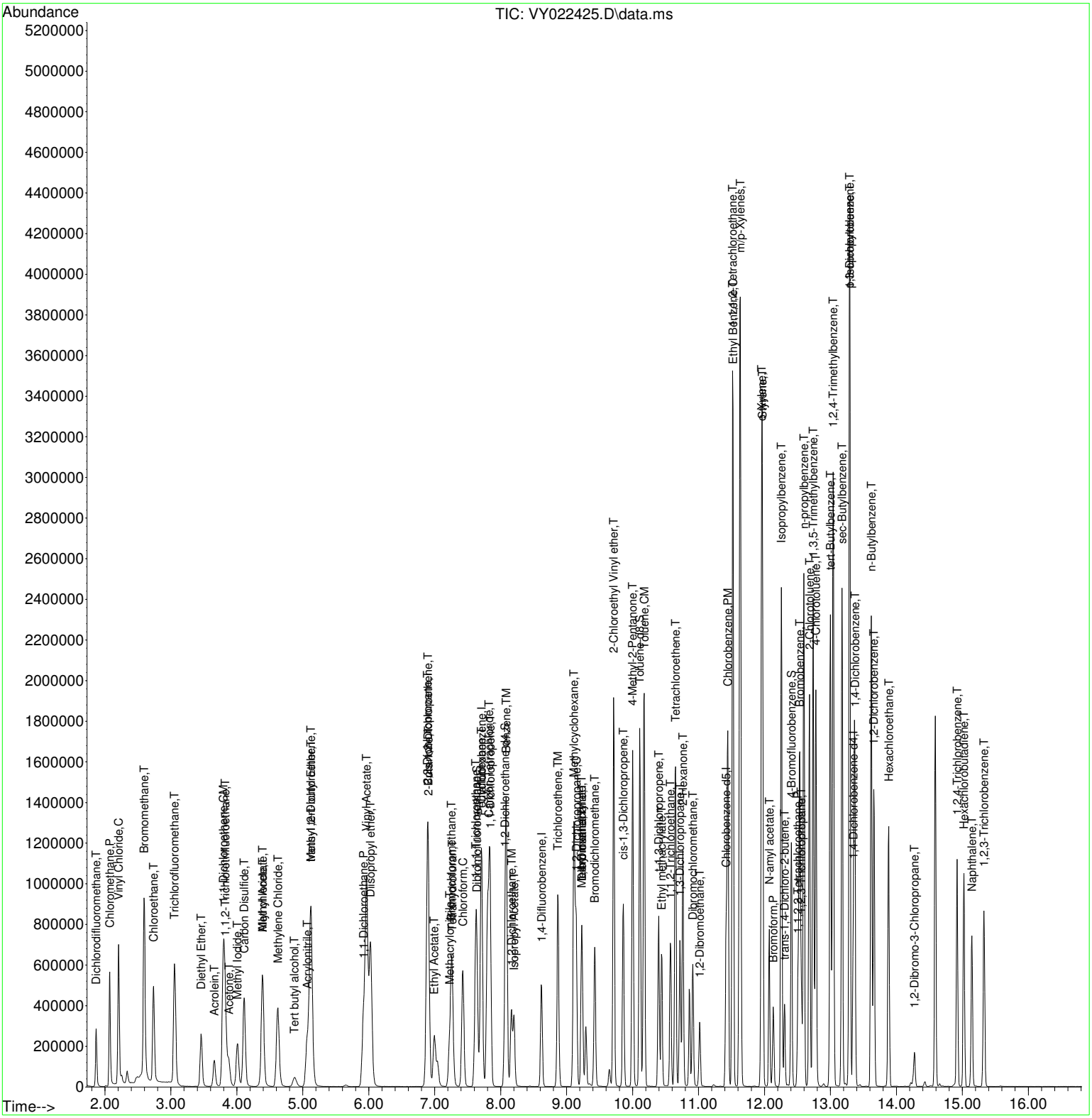
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022425.D
Acq On : 27 May 2025 10:22
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

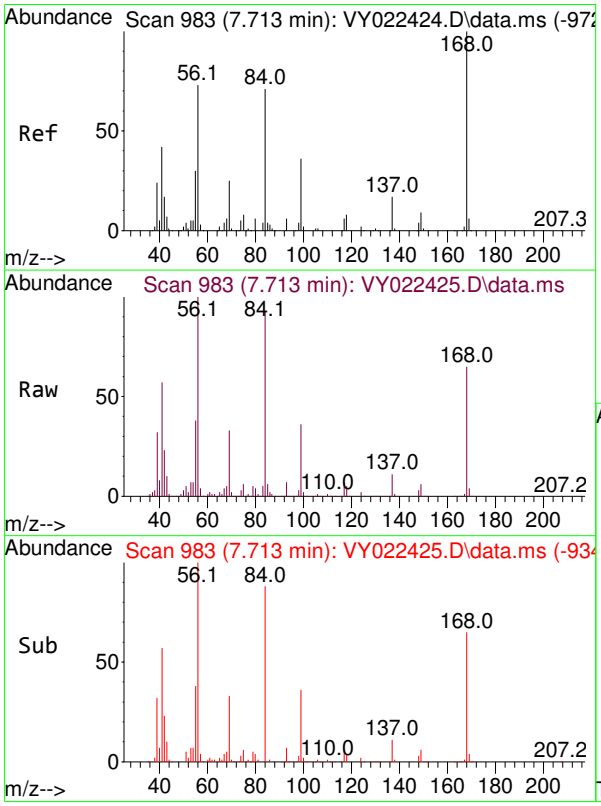
Quant Time: May 28 10:00:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 09:30:53 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

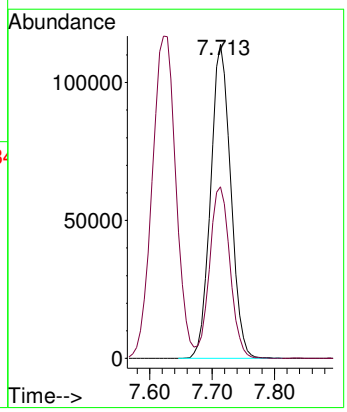
Tgt Ion:168 Resp: 25449

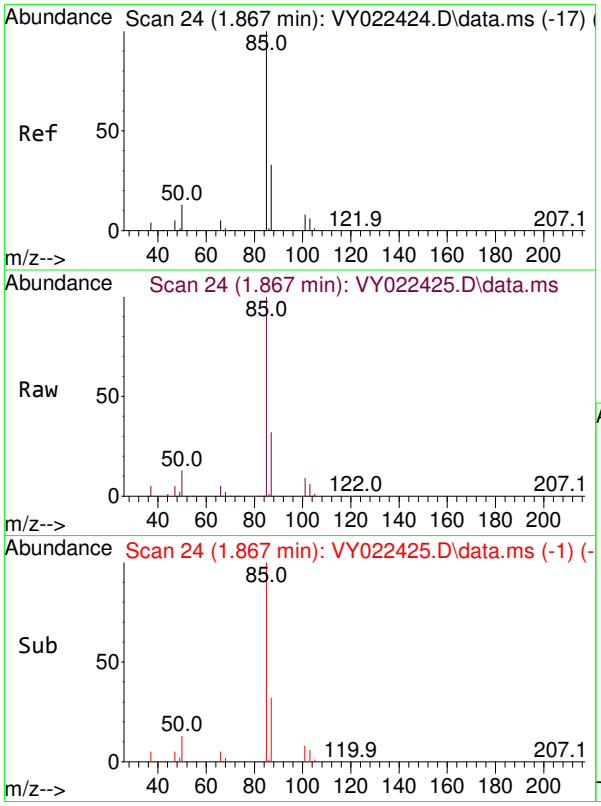
Ion	Ratio	Lower	Upper
168	100		
99	54.7	44.7	67.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

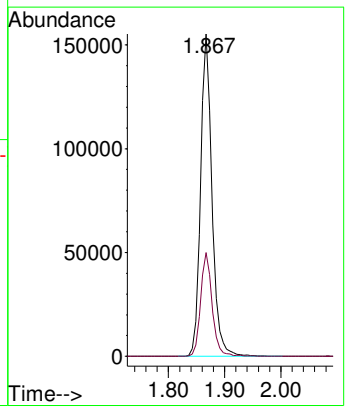


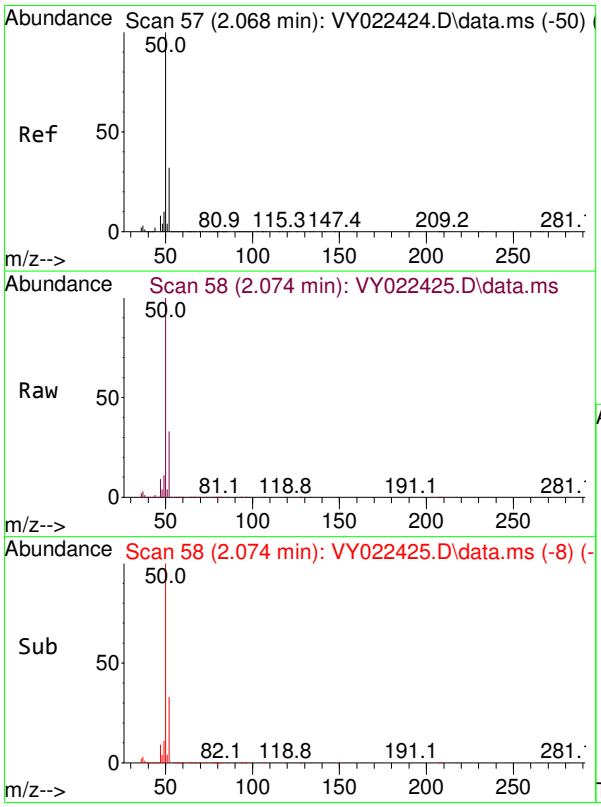


#2
Dichlorodifluoromethane
Concen: 90.239 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 85 Resp: 219107

Ion	Ratio	Lower	Upper
85	100		
87	32.2	16.4	49.2





#3
Chloromethane
Concen: 79.803 ug/l
RT: 2.074 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 50 Resp: 47662

Ion	Ratio	Lower	Upper
50	100		
52	32.7	25.5	38.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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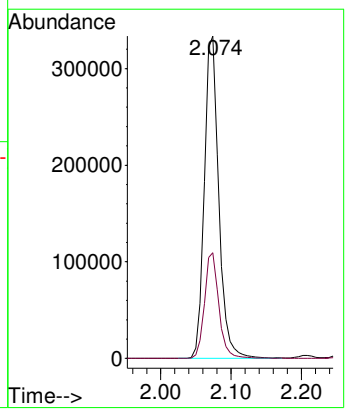
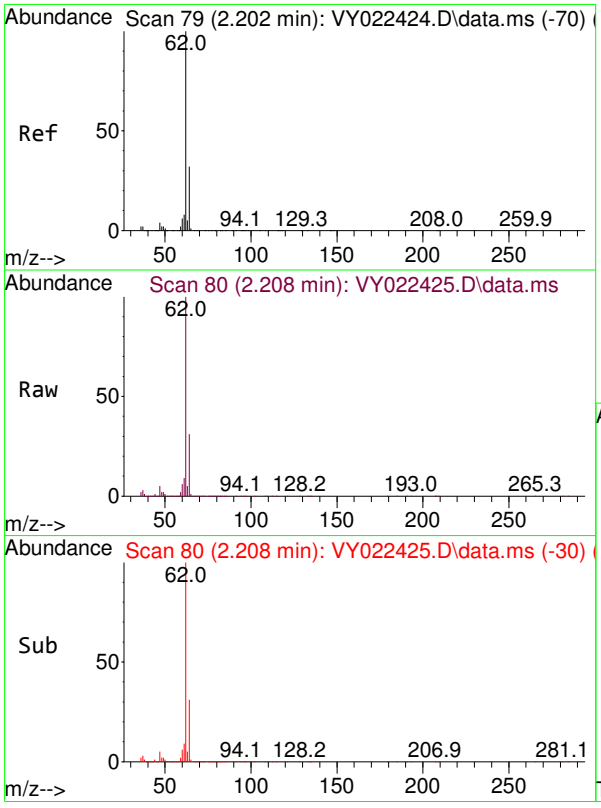
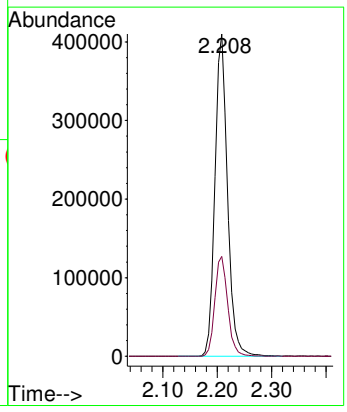


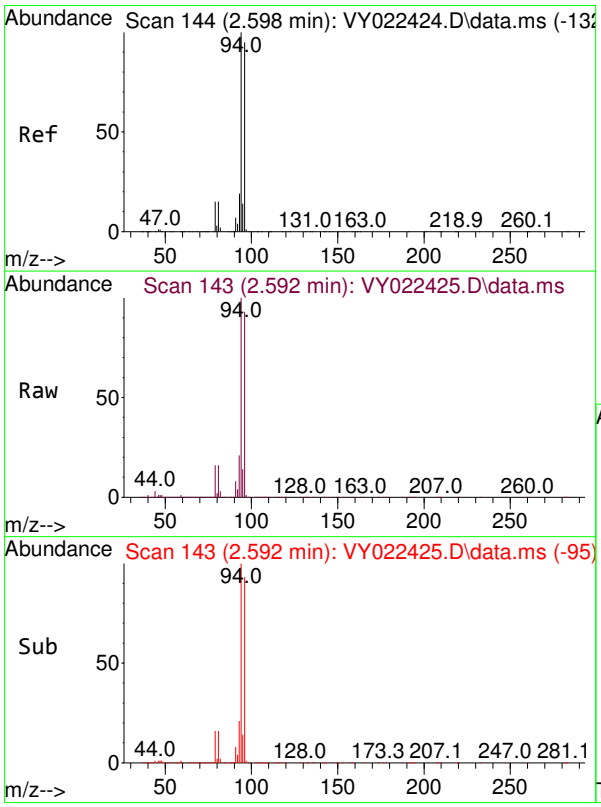


#4
Vinyl Chloride
Concen: 90.657 ug/l
RT: 2.208 min Scan# 80
Delta R.T. 0.006 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 62 Resp: 657774

Ion	Ratio	Lower	Upper
62	100		
64	31.0	26.0	39.0





#5
Bromomethane
Concen: 93.629 ug/l
RT: 2.592 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 94 Resp: 61734

Ion	Ratio	Lower	Upper
94	100		
96	93.0	76.0	114.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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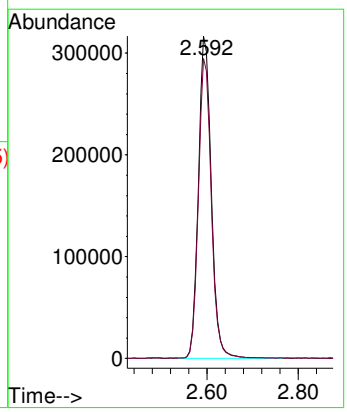
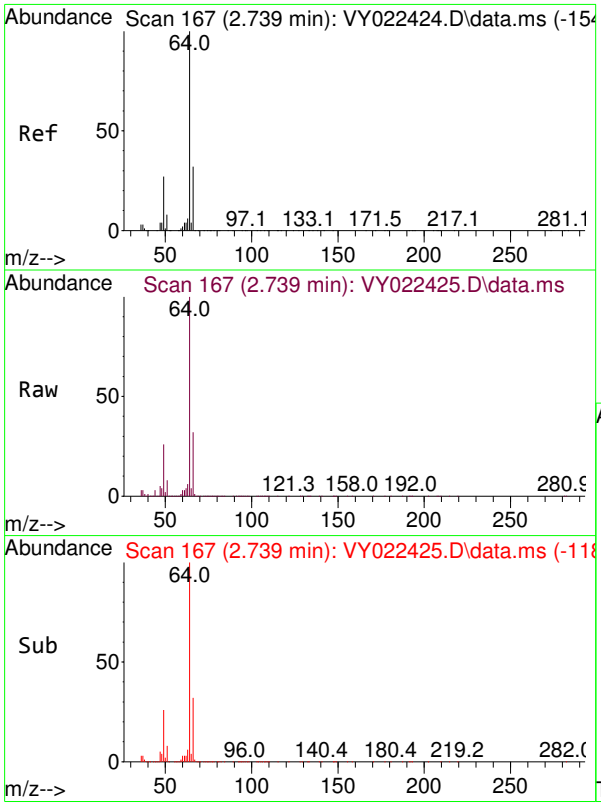
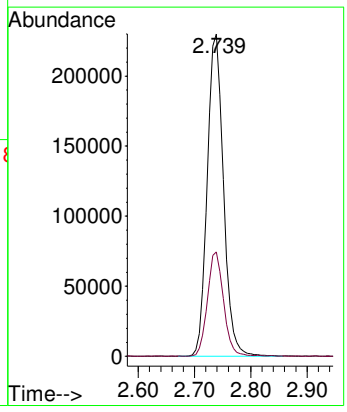


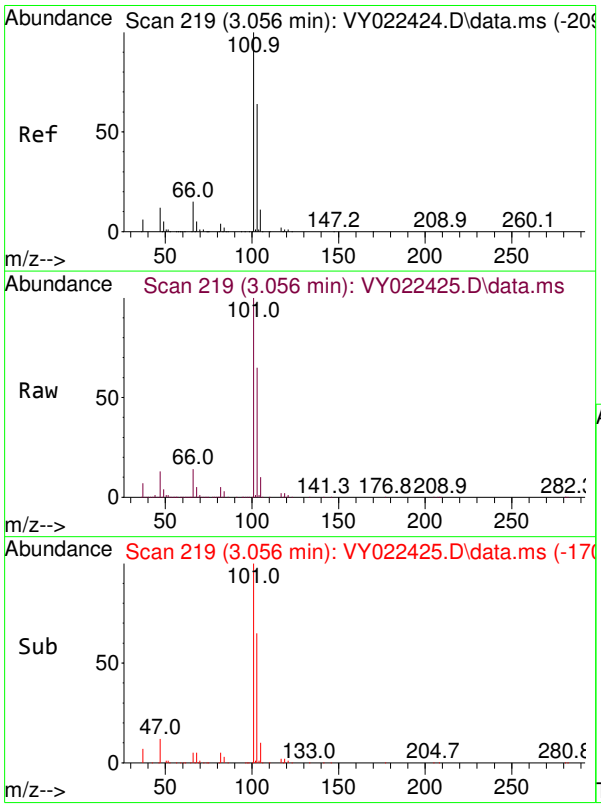


#6
Chloroethane
Concen: 97.376 ug/l
RT: 2.739 min Scan# 167
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 64 Resp: 461685

Ion	Ratio	Lower	Upper
64	100		
66	32.3	25.9	38.9





#7
Trichlorofluoromethane
Concen: 98.726 ug/l
RT: 3.056 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion:101 Resp: 60437

Ion	Ratio	Lower	Upper
101	100		
103	64.6	50.9	76.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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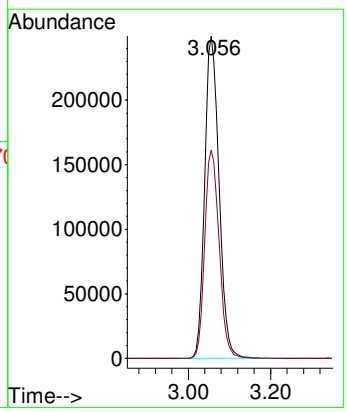
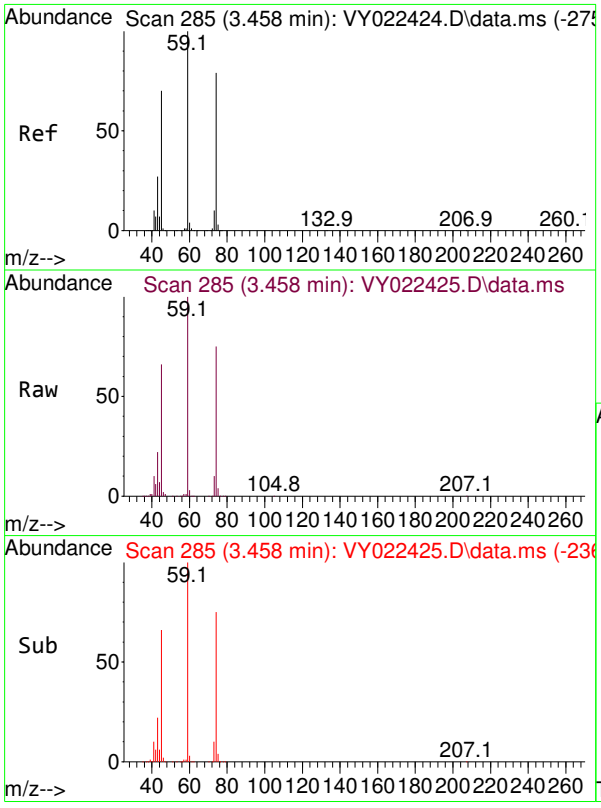
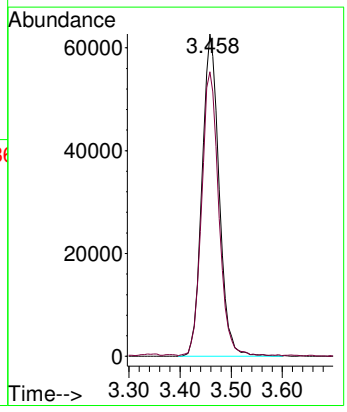


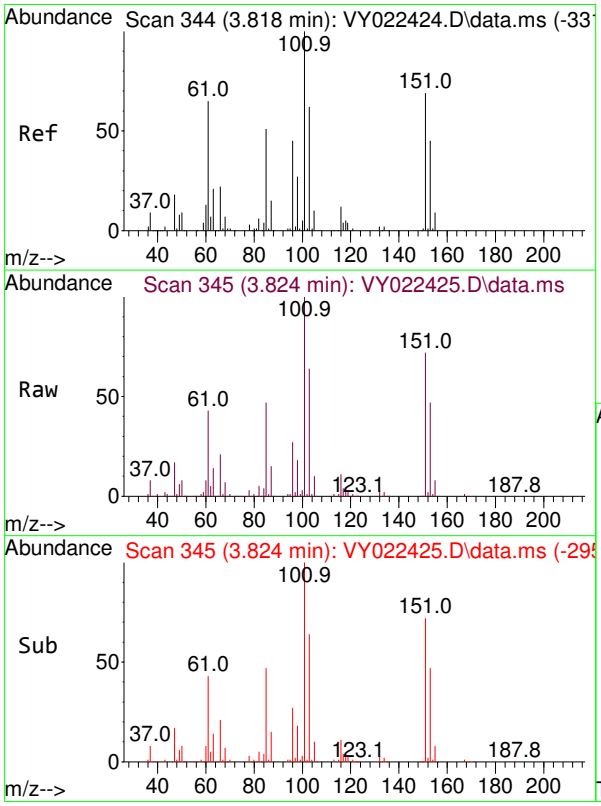


#8
Diethyl Ether
Concen: 102.707 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 74 Resp: 144974

Ion	Ratio	Lower	Upper
74	100		
45	88.4	44.9	134.5





#9
1,1,2-Trichlorotrifluoroethane
Concen: 99.149 ug/l
RT: 3.824 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion:101 Resp: 26628

Ion	Ratio	Lower	Upper
101	100		
85	48.1	39.2	58.8
151	72.8	58.8	88.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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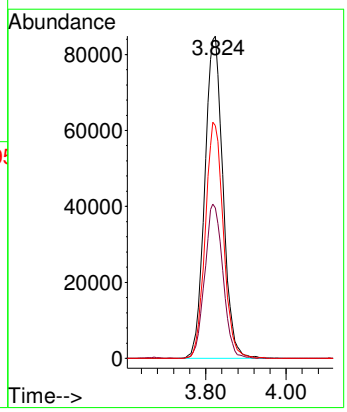
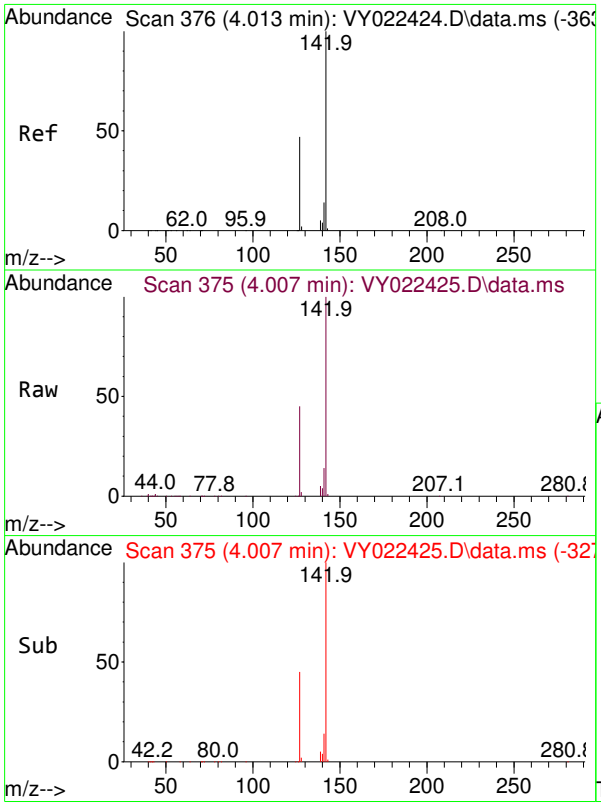
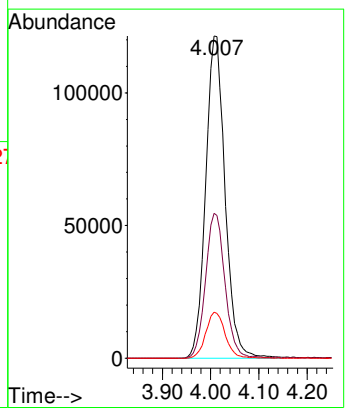


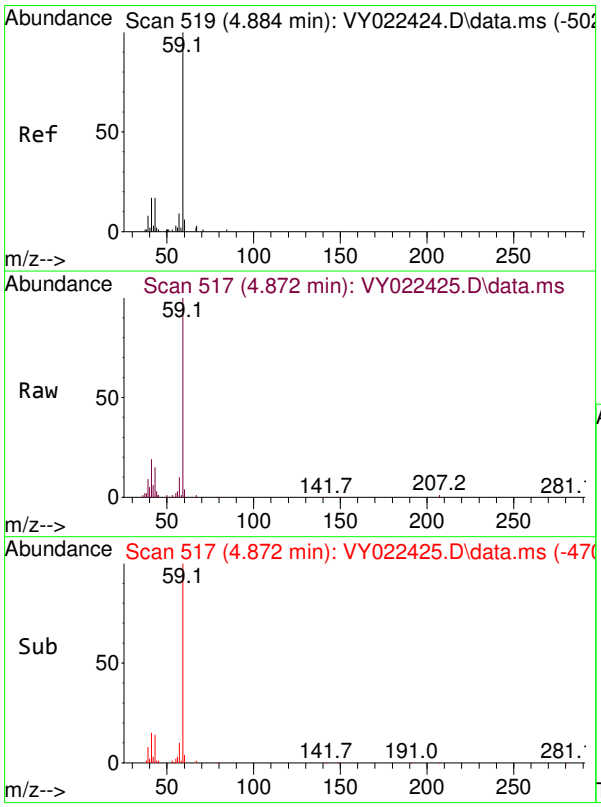


#10
Methyl Iodide
Concen: 111.841 ug/l
RT: 4.007 min Scan# 375
Delta R.T. -0.006 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion:142 Resp: 338872

Ion	Ratio	Lower	Upper
142	100		
127	45.3	36.2	54.4
141	14.4	11.6	17.4





#11
Tert butyl alcohol
Concen: 513.234 ug/l
RT: 4.872 min Scan# 5
Delta R.T. -0.012 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 59 Resp: 9697

Ion	Ratio	Lower	Upper
59	100		
57	10.8	9.1	13.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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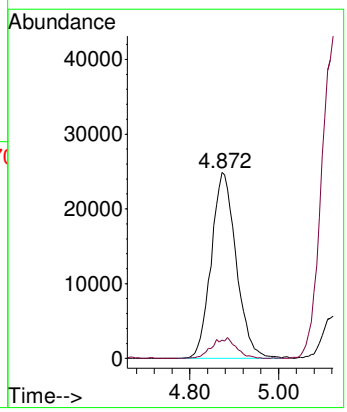
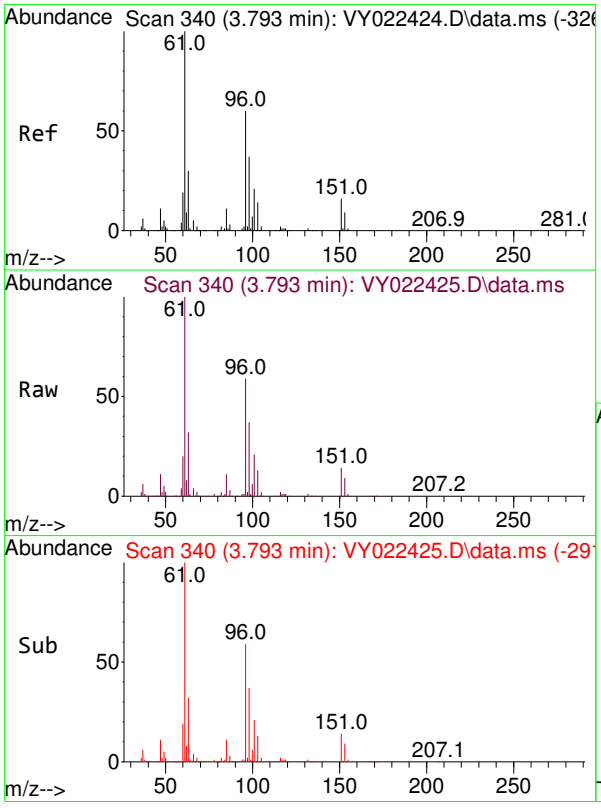
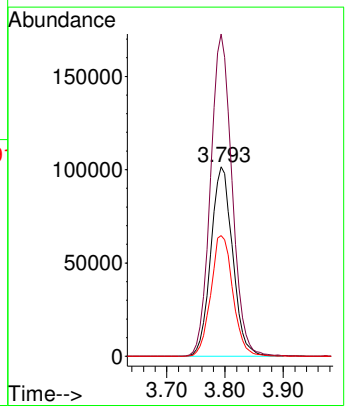


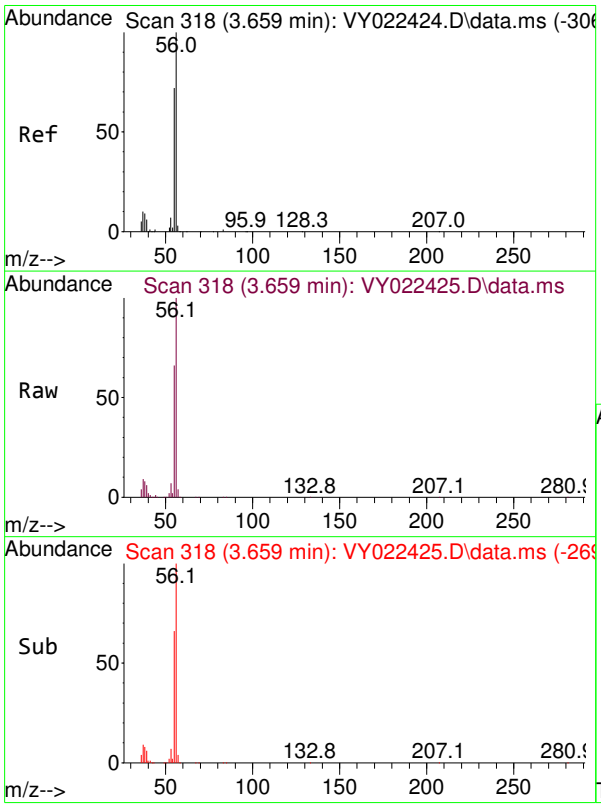


#12
1,1-Dichloroethene
Concen: 99.249 ug/l
RT: 3.793 min Scan# 340
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 96 Resp: 264638

Ion	Ratio	Lower	Upper
96	100		
61	170.1	134.1	201.1
98	63.8	50.2	75.2





#13
Acrolein
Concen: 526.536 ug/l
RT: 3.659 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 56 Resp: 14907

Ion	Ratio	Lower	Upper
56	100		
55	70.3	56.5	84.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
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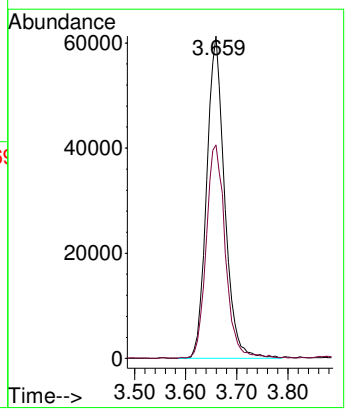
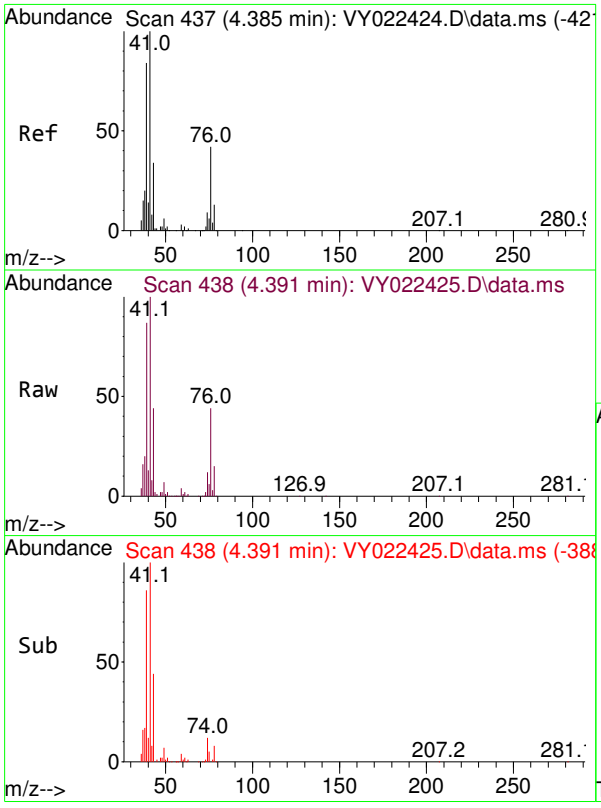
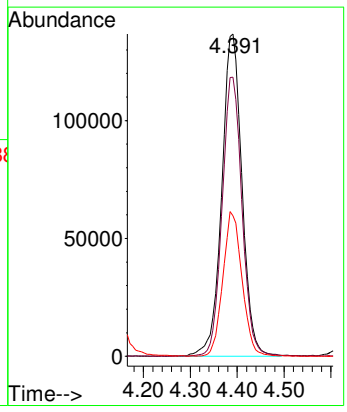


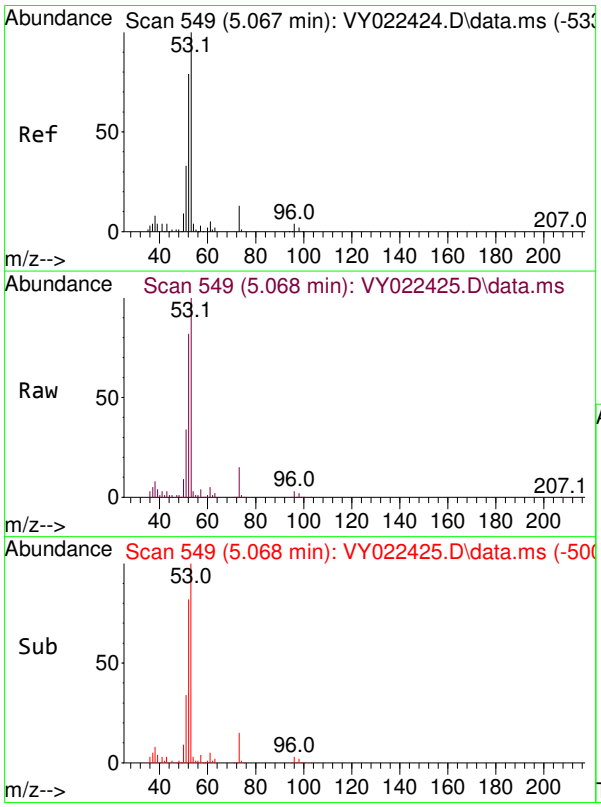


#14
Allyl chloride
Concen: 101.625 ug/l
RT: 4.391 min Scan# 438
Delta R.T. 0.006 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 41 Resp: 407614

Ion	Ratio	Lower	Upper
41	100		
39	85.1	66.6	100.0
76	42.4	33.7	50.5

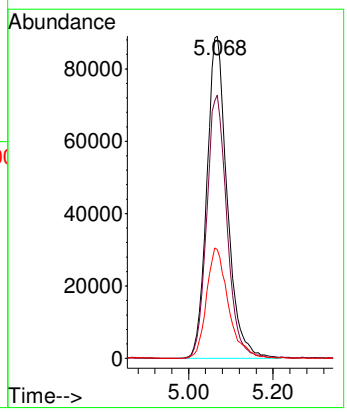




#15
Acrylonitrile
Concen: 526.172 ug/l
RT: 5.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 53 Resp: 29936

Ion	Ratio	Lower	Upper
53	100		
52	81.1	65.1	97.7
51	36.9	30.0	45.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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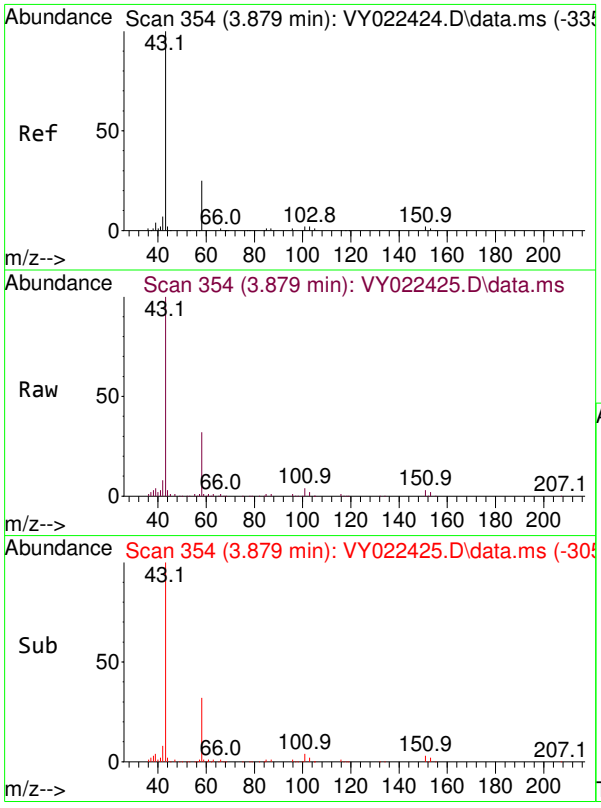
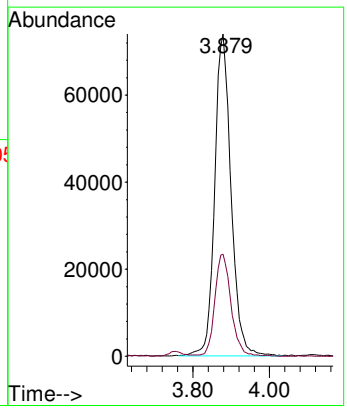
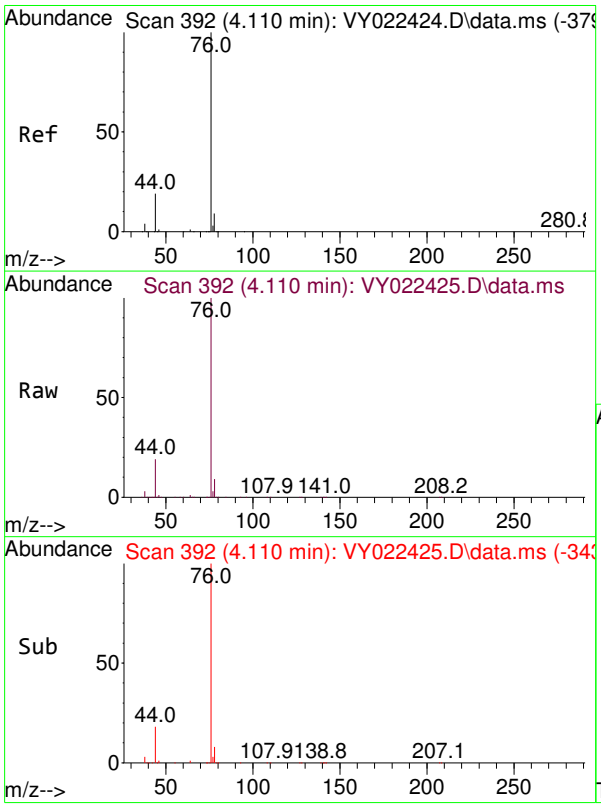


#16
Acetone
Concen: 497.574 ug/l
RT: 3.879 min Scan# 354
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 43 Resp: 219178

Ion	Ratio	Lower	Upper
43	100		
58	31.7	20.6	30.8#





#17
Carbon Disulfide
Concen: 100.043 ug/l
RT: 4.110 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 76 Resp: 85127

Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.2	10.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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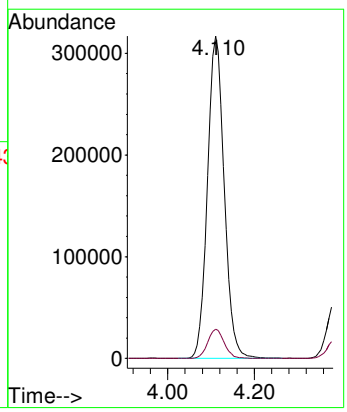
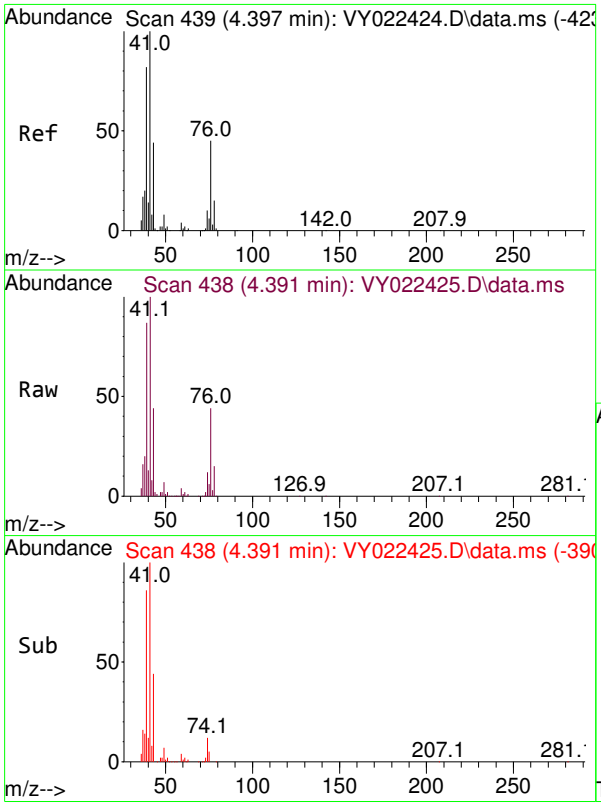
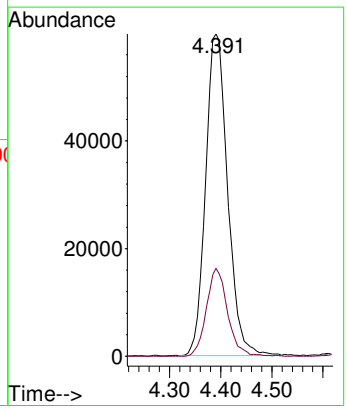


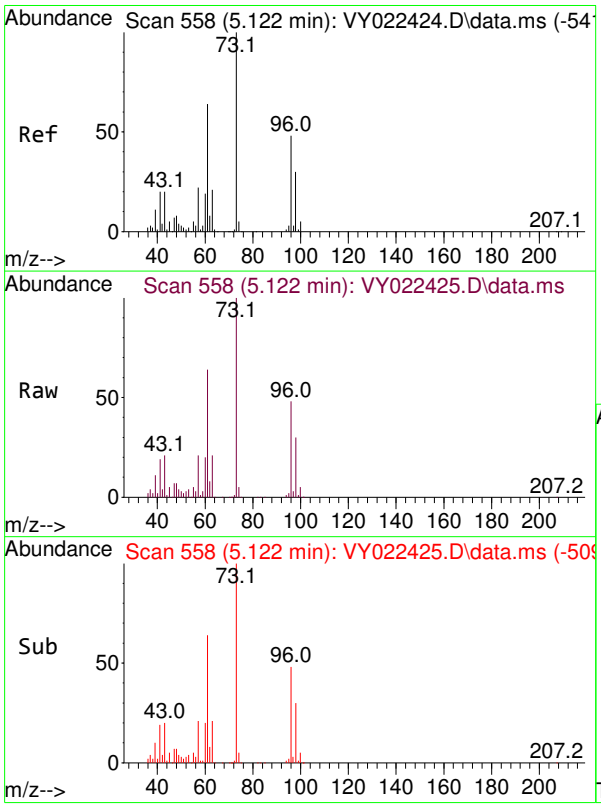


#18
Methyl Acetate
Concen: 108.317 ug/l
RT: 4.391 min Scan# 438
Delta R.T. -0.006 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 43 Resp: 178729

Ion	Ratio	Lower	Upper
43	100		
74	26.3	21.2	31.8





#19
Methyl tert-butyl Ether
Concen: 103.886 ug/l
RT: 5.122 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 73 Resp: 73541

Ion	Ratio	Lower	Upper
73	100		
57	21.5	17.7	26.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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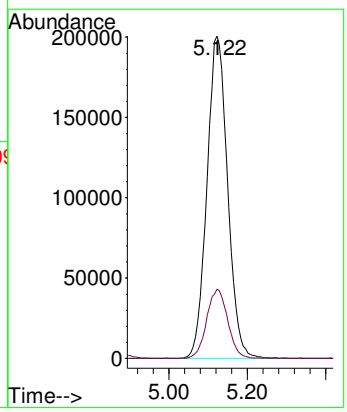
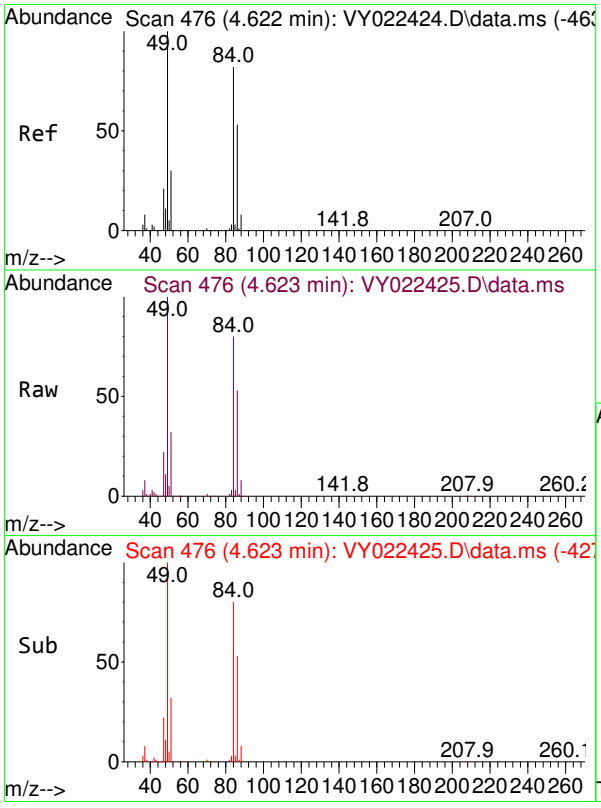
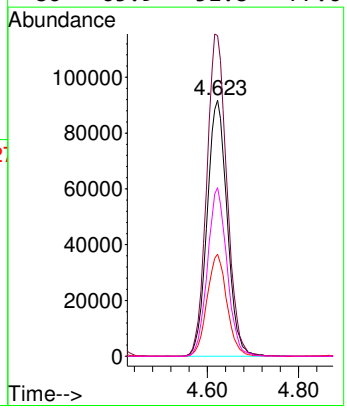


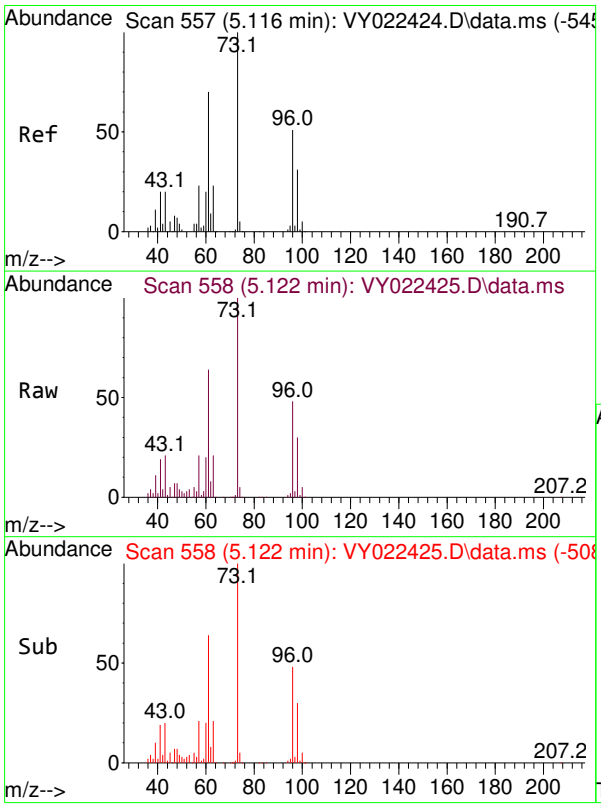


#20
Methylene Chloride
Concen: 89.995 ug/l
RT: 4.623 min Scan# 476
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 84 Resp: 279934

Ion	Ratio	Lower	Upper
84	100		
49	125.3	97.8	146.8
51	39.9	29.5	44.3
86	65.9	51.8	77.6

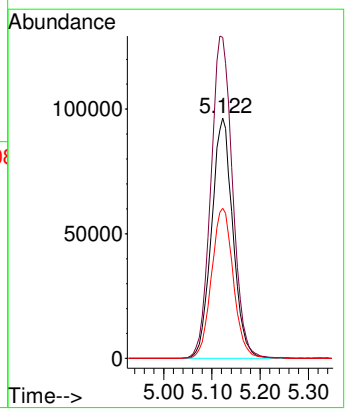




#21
trans-1,2-Dichloroethene
Concen: 101.801 ug/l
RT: 5.122 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 96 Resp: 29633

Ion	Ratio	Lower	Upper
96	100		
61	133.6	110.4	165.6
98	62.4	48.6	73.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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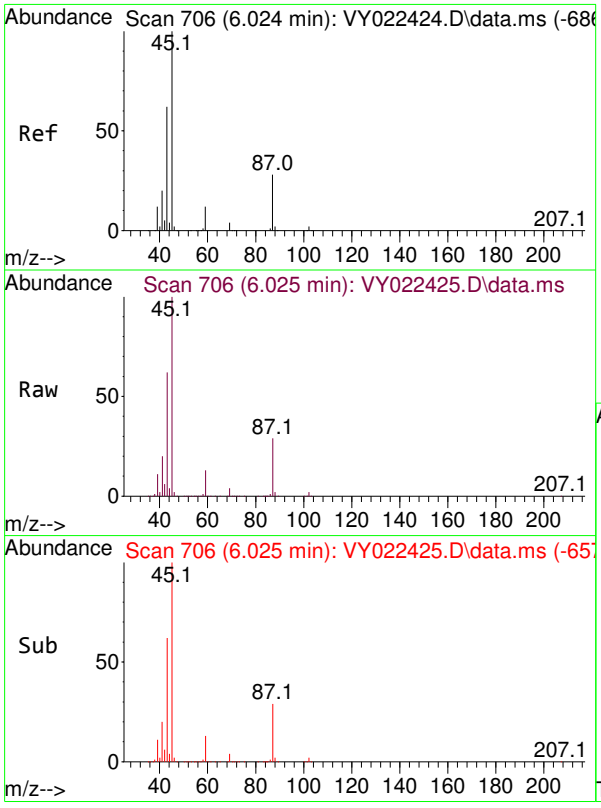
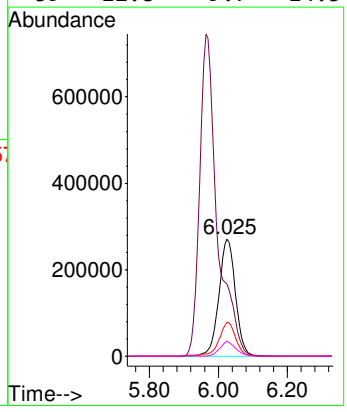
Supervised By :Mahesh Dadoda 05/28/2025

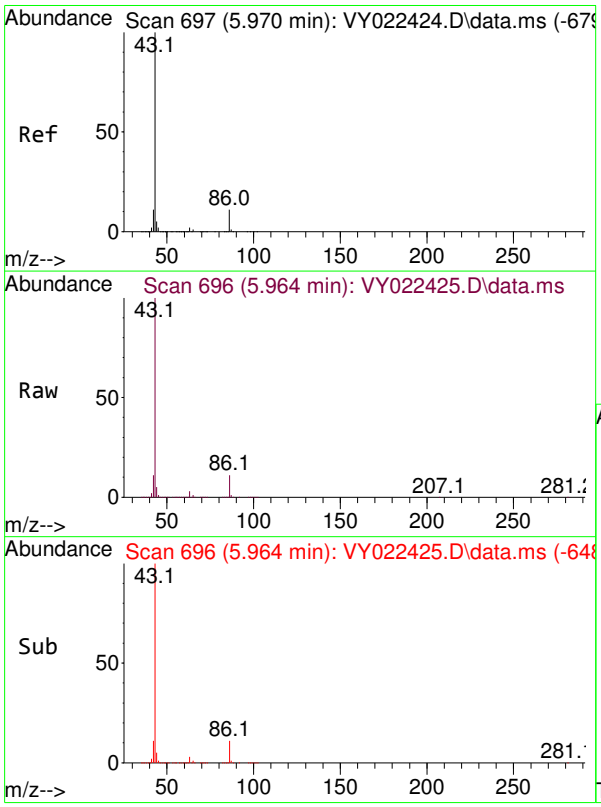


#22
Diisopropyl ether
Concen: 102.415 ug/l
RT: 6.025 min Scan# 706
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 45 Resp: 906611

Ion	Ratio	Lower	Upper
45	100		
43	61.7	49.8	74.8
87	29.2	23.0	34.6
59	12.8	9.7	14.5





#23
Vinyl Acetate
Concen: 518.224 ug/l
RT: 5.964 min Scan# 6
Delta R.T. -0.006 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 43 Resp: 263405

Ion	Ratio	Lower	Upper
43	100		
86	10.6	8.8	13.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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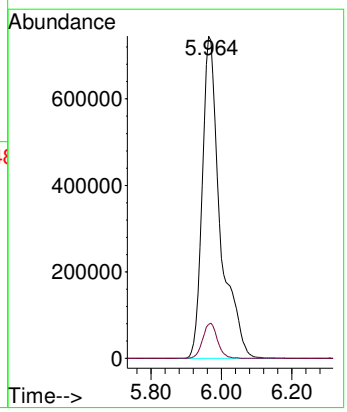
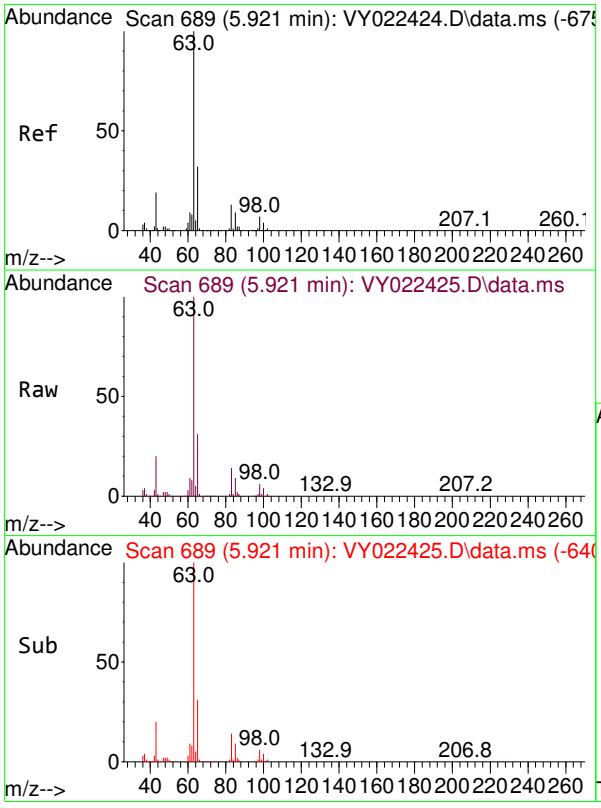
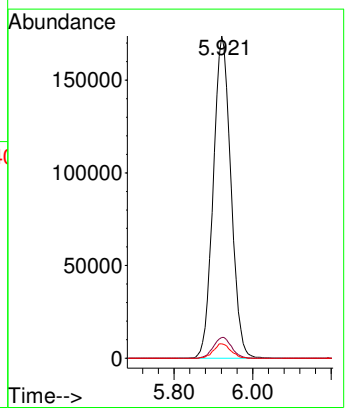


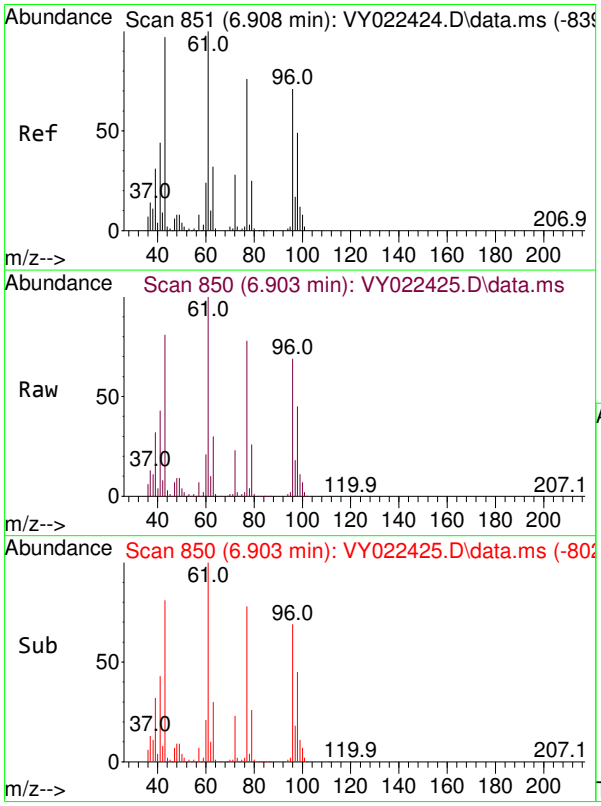


#24
1,1-Dichloroethane
Concen: 103.372 ug/l
RT: 5.921 min Scan# 689
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 63 Resp: 540724

Ion	Ratio	Lower	Upper
63	100		
98	6.5	3.5	10.5
100	4.5	2.1	6.5





#25
2-Butanone
Concen: 527.215 ug/l
RT: 6.903 min Scan# 8
Delta R.T. -0.006 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 43 Resp: 38676

Ion	Ratio	Lower	Upper
43	100		
72	28.6	22.8	34.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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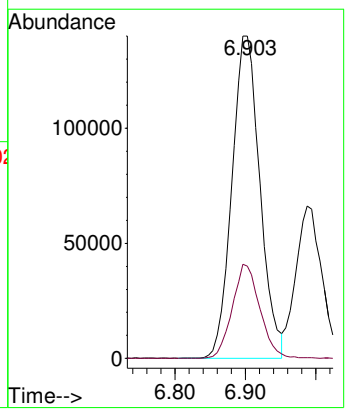
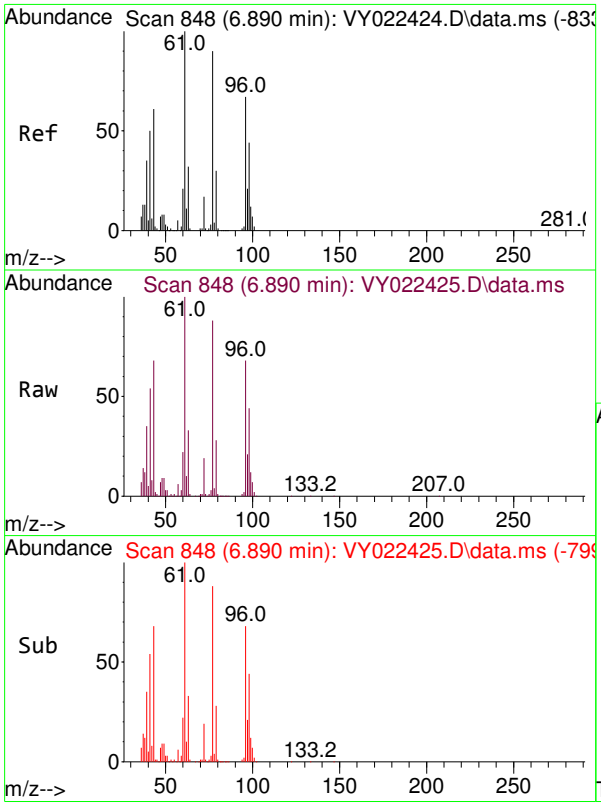
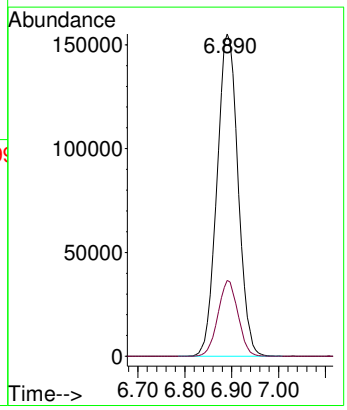


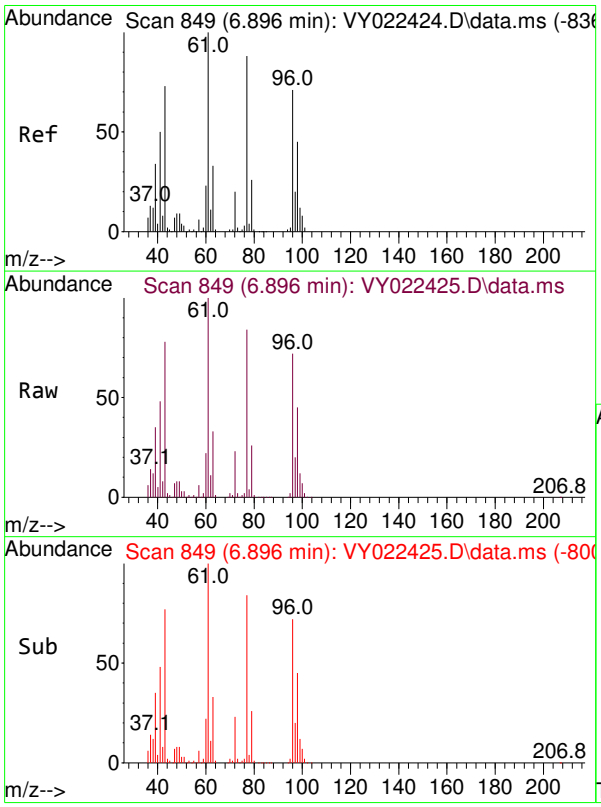


#26
2,2-Dichloropropane
Concen: 101.829 ug/l
RT: 6.890 min Scan# 848
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 77 Resp: 482308

Ion	Ratio	Lower	Upper
77	100		
97	22.4	11.6	34.7

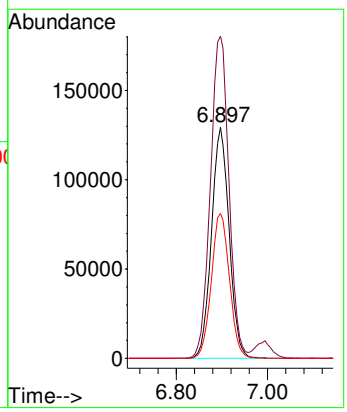




#27
cis-1,2-Dichloroethene
Concen: 103.273 ug/l
RT: 6.896 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 96 Resp: 34802

Ion	Ratio	Lower	Upper
96	100		
61	146.3	0.0	292.0
98	64.4	0.0	131.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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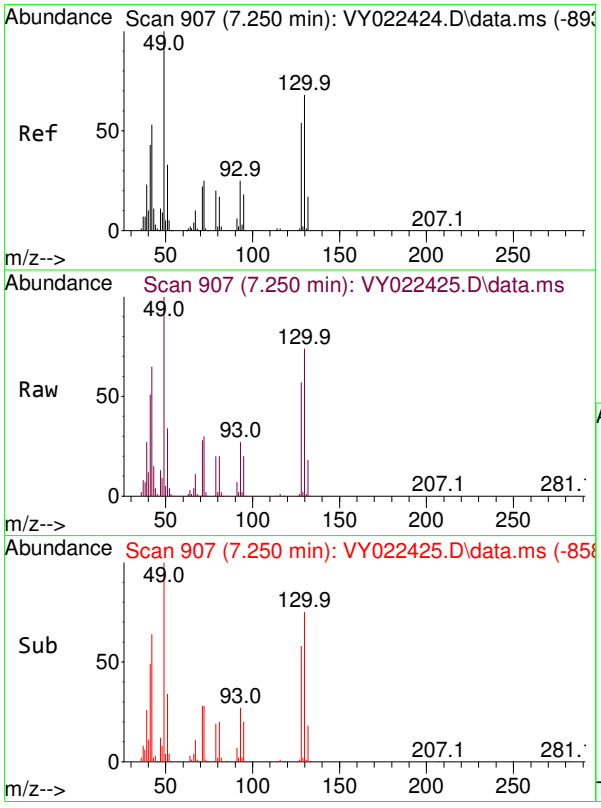
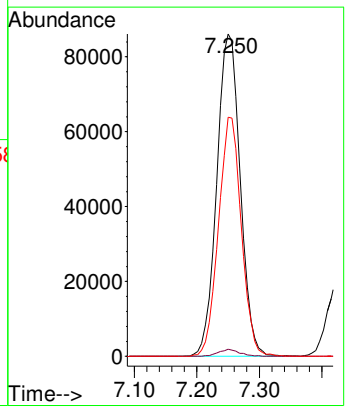
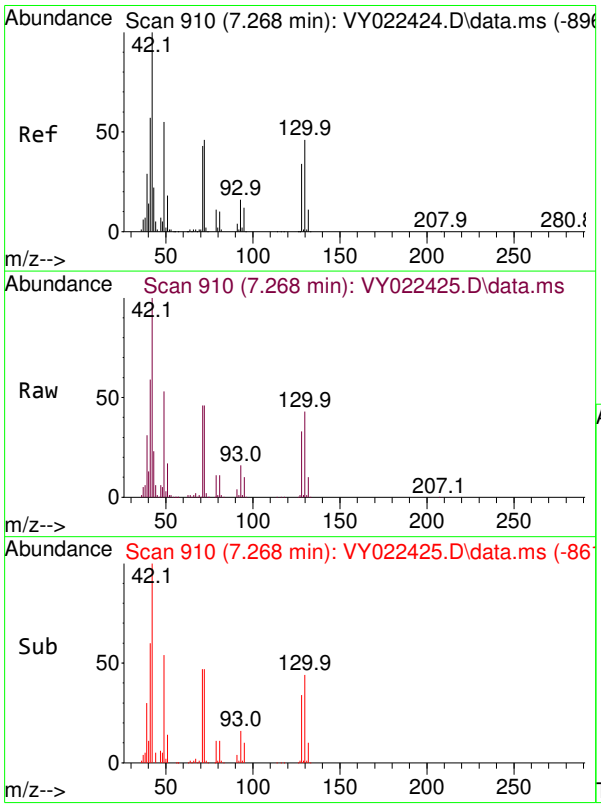


#28
Bromochloromethane
Concen: 102.322 ug/l
RT: 7.250 min Scan# 907
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 49 Resp: 223498

Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	4.0
130	72.3	56.9	85.3

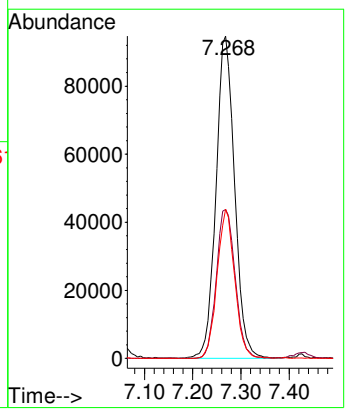




#29
Tetrahydrofuran
Concen: 519.309 ug/l
RT: 7.268 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 42 Resp: 25407

Ion	Ratio	Lower	Upper
42	100		
72	46.9	37.7	56.5
71	43.9	34.7	52.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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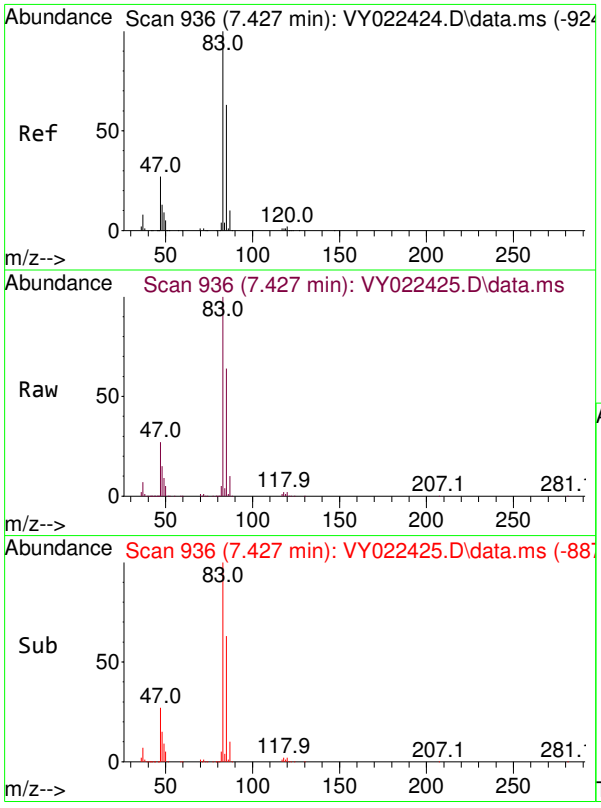
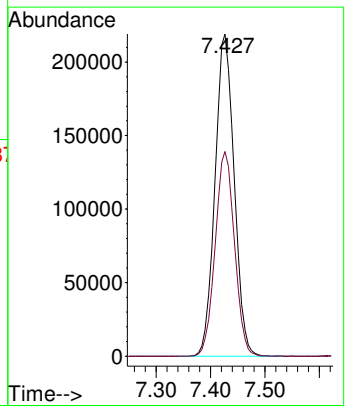
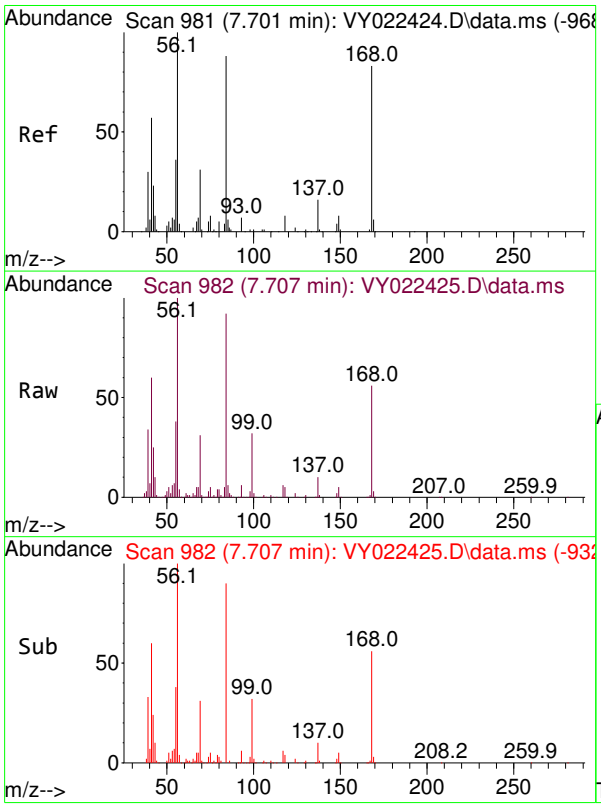


#30
Chloroform
Concen: 103.866 ug/l
RT: 7.427 min Scan# 936
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 83 Resp: 535360

Ion	Ratio	Lower	Upper
83	100		
85	63.5	50.1	75.1





#31
Cyclohexane
Concen: 93.445 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 56 Resp: 48182

Ion	Ratio	Lower	Upper
56	100		
69	30.9	24.6	36.8
84	90.3	70.4	105.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
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Reviewed By :Amit Patel 05/28/2025
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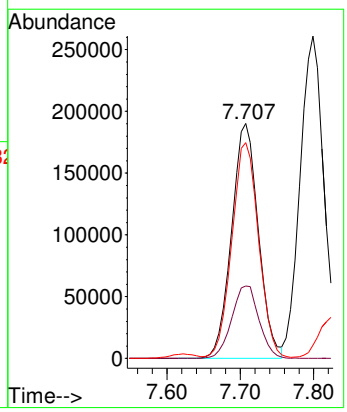
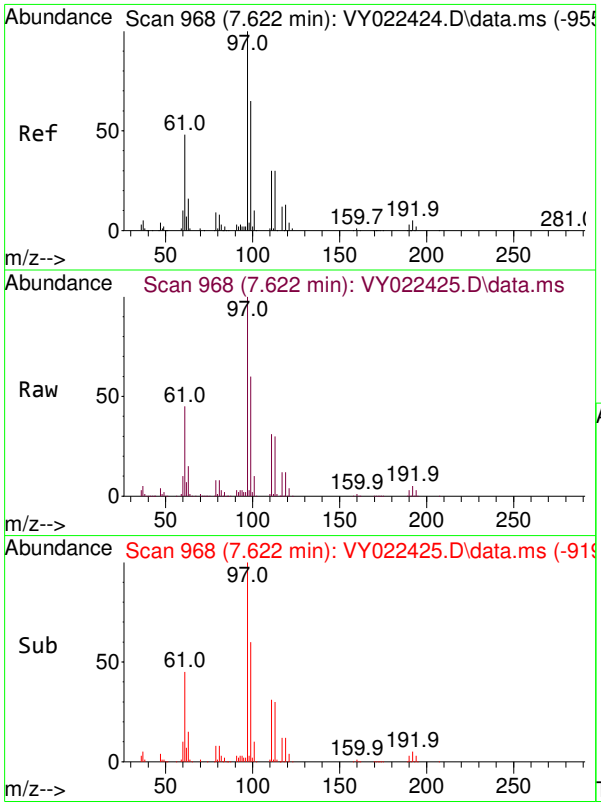
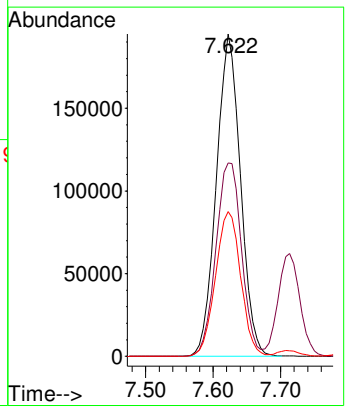


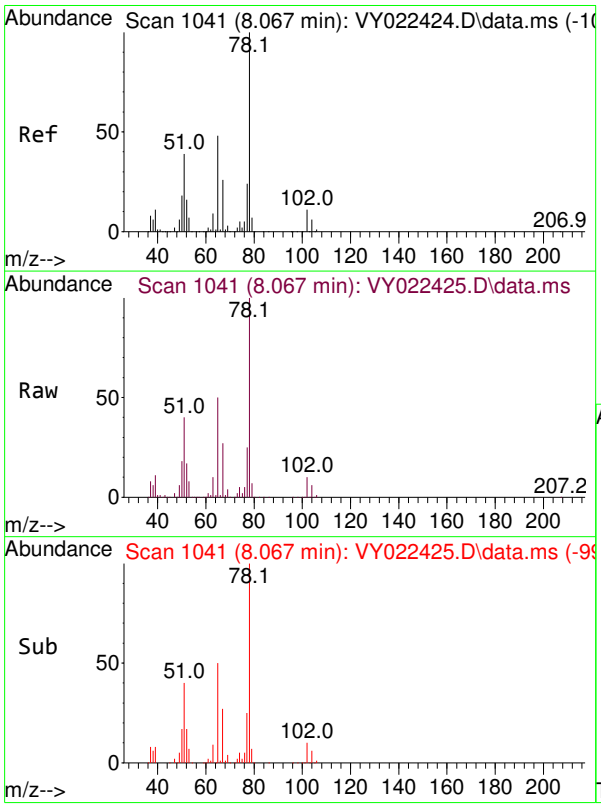


#32
1,1,1-Trichloroethane
Concen: 103.605 ug/l
RT: 7.622 min Scan# 968
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 97 Resp: 484647

Ion	Ratio	Lower	Upper
97	100		
99	63.7	51.3	76.9
61	47.0	37.3	55.9





#33
1,2-Dichloroethane-d4
Concen: 102.746 ug/l
RT: 8.067 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 65 Resp: 27542

Ion	Ratio	Lower	Upper
65	100		
67	52.8	0.0	104.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
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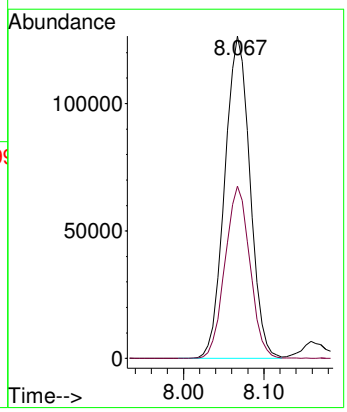
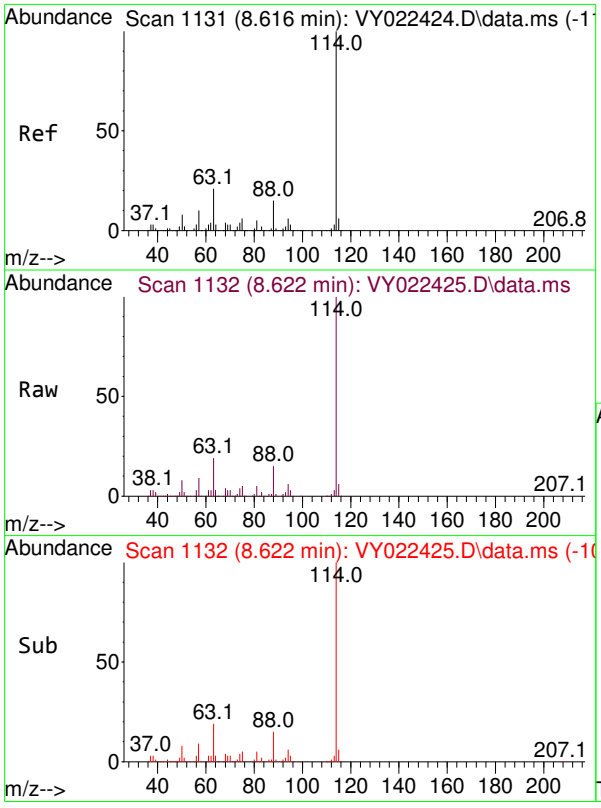
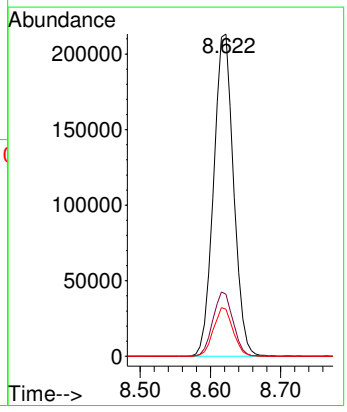


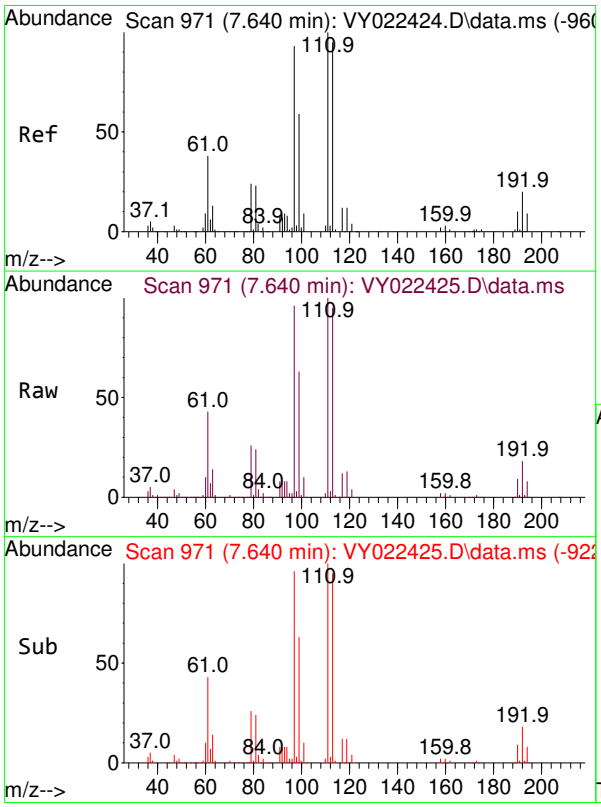


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.622 min Scan# 1132
Delta R.T. 0.006 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion:114 Resp: 420045

Ion	Ratio	Lower	Upper
114	100		
63	19.3	0.0	42.6
88	14.6	0.0	29.4





#35
Dibromofluoromethane
Concen: 105.646 ug/l
RT: 7.640 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion:113 Resp: 25988

Ion	Ratio	Lower	Upper
113	100		
111	104.8	82.4	123.6
192	19.0	15.2	22.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

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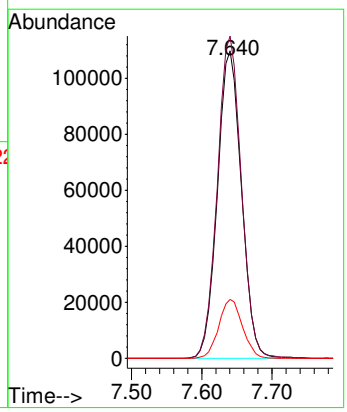
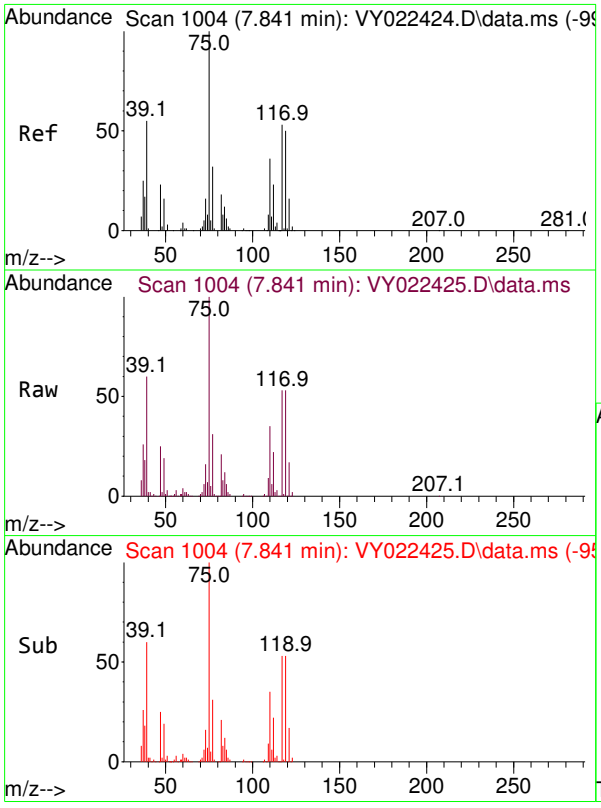
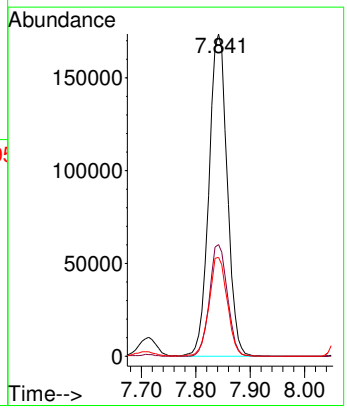


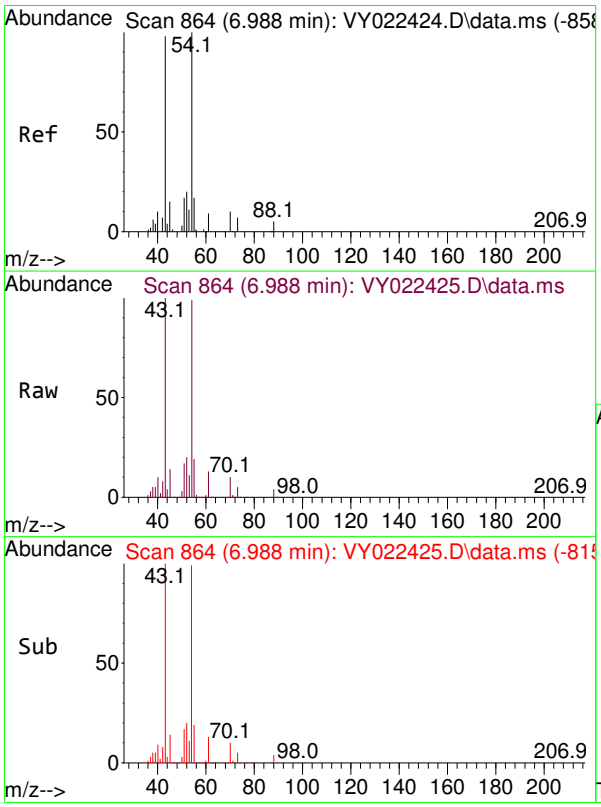


#36
1,1-Dichloropropene
Concen: 103.896 ug/l
RT: 7.841 min Scan# 1004
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 75 Resp: 405555

Ion	Ratio	Lower	Upper
75	100		
110	34.1	17.1	51.2
77	30.8	25.1	37.7





#37
Ethyl Acetate
Concen: 105.171 ug/l
RT: 6.988 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 43 Resp: 17447

Ion	Ratio	Lower	Upper
43	100		
61	13.9	11.7	17.5
70	9.8	7.8	11.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
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Reviewed By :Amit Patel 05/28/2025
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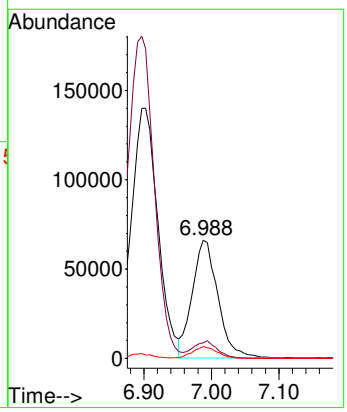
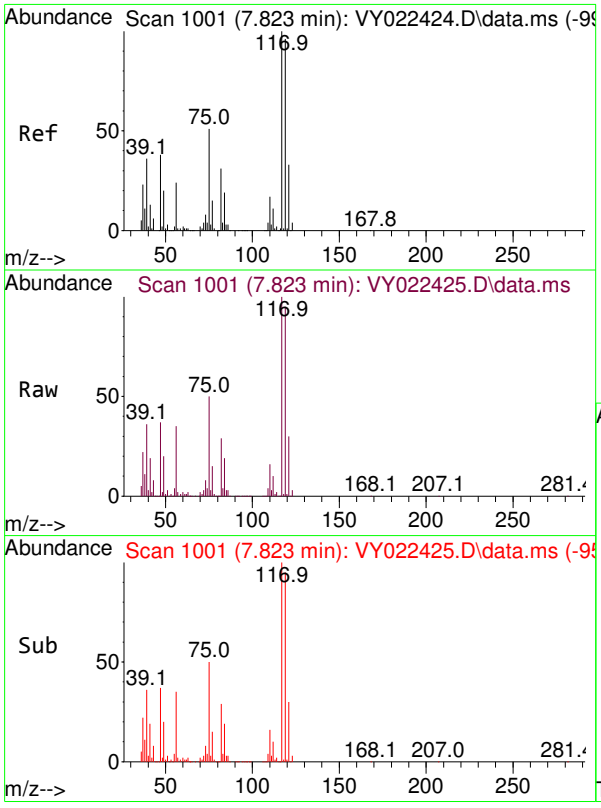
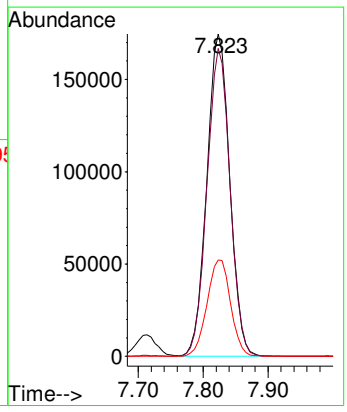


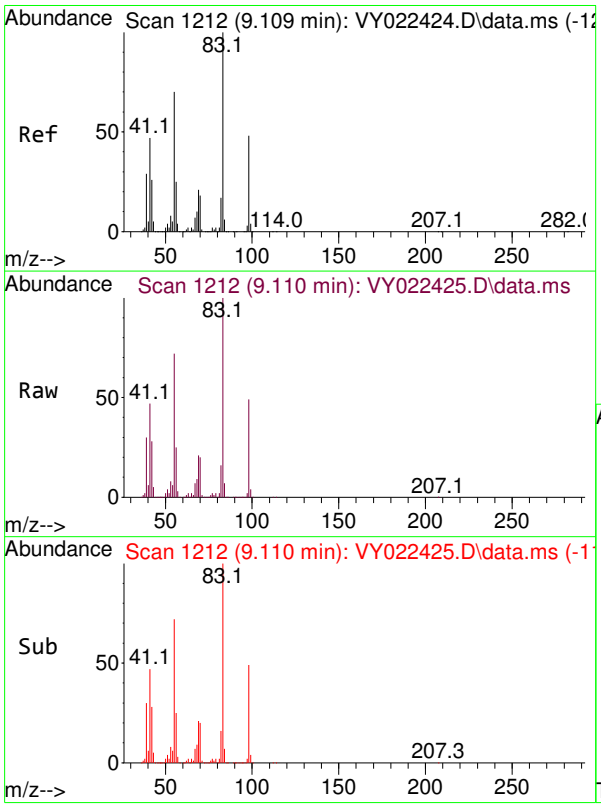


#38
Carbon Tetrachloride
Concen: 105.456 ug/l
RT: 7.823 min Scan# 1001
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion:117 Resp: 428817

Ion	Ratio	Lower	Upper
117	100		
119	95.4	76.3	114.5
121	29.9	26.1	39.1

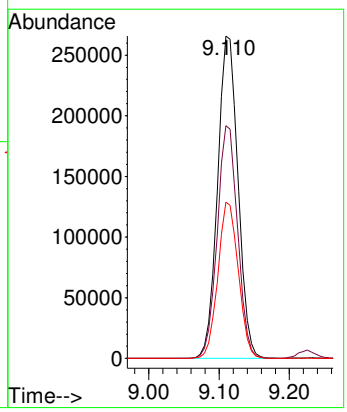




#39
Methylcyclohexane
Concen: 103.329 ug/l
RT: 9.110 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 83 Resp: 53615

Ion	Ratio	Lower	Upper
83	100		
55	72.2	56.2	84.2
98	48.5	38.4	57.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
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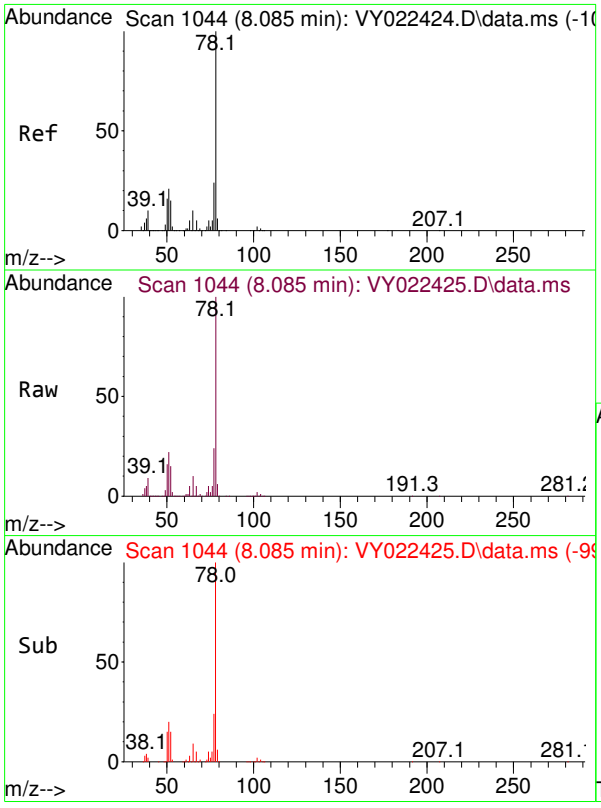
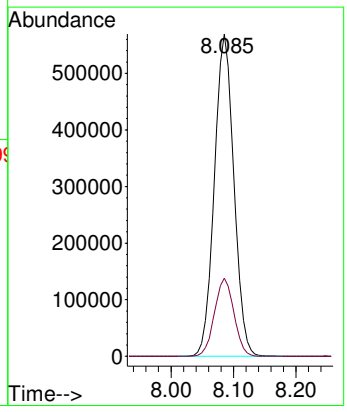
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

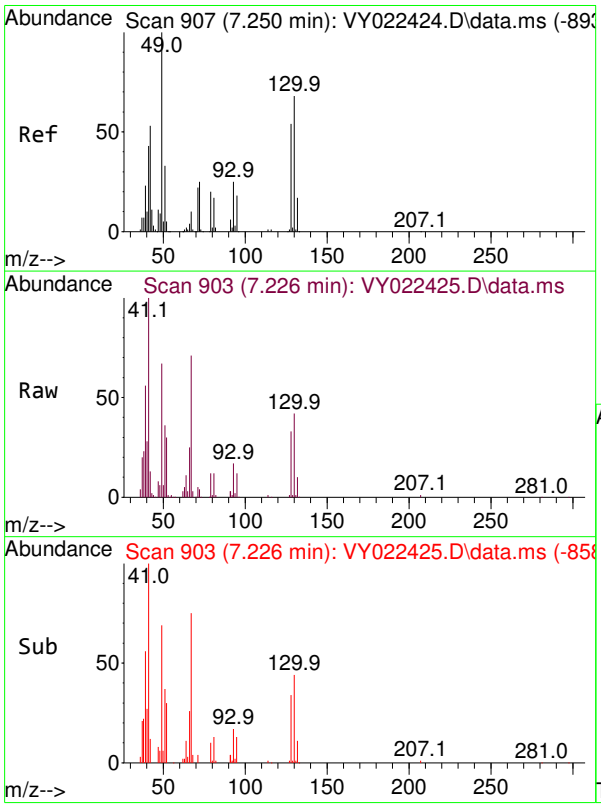


#40
Benzene
Concen: 105.848 ug/l
RT: 8.085 min Scan# 1044
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 78 Resp: 1229435

Ion	Ratio	Lower	Upper
78	100		
77	24.2	19.4	29.2

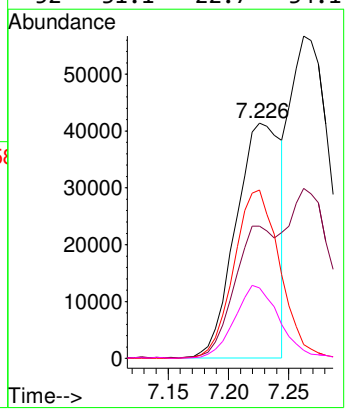




#41
Methacrylonitrile
Concen: 49.194 ug/l
RT: 7.226 min Scan# 9
Delta R.T. -0.024 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 41 Resp: 10740

Ion	Ratio	Lower	Upper
41	100		
39	49.4	40.4	60.6
67	73.1	53.0	79.4
52	31.1	22.7	34.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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Reviewed By :Amit Patel 05/28/2025
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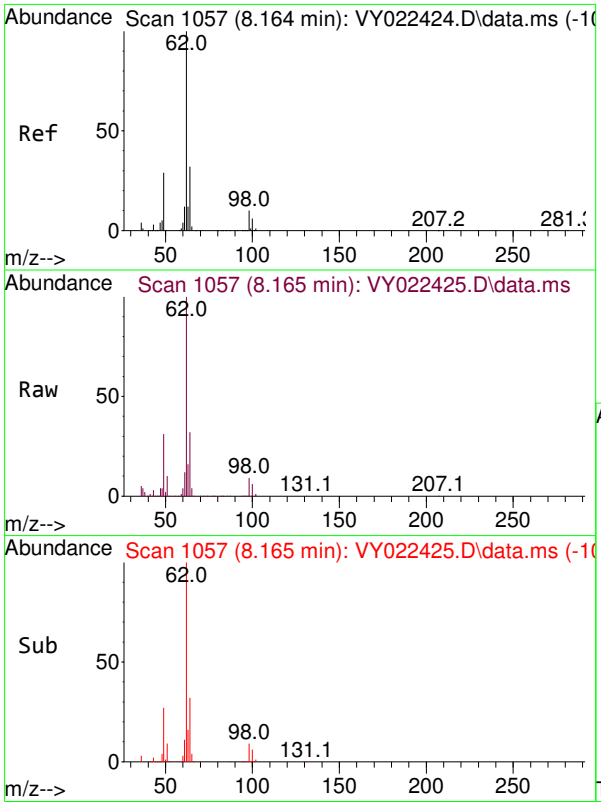
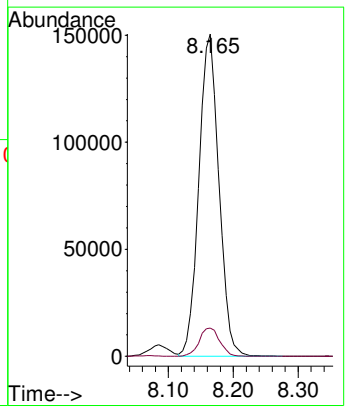
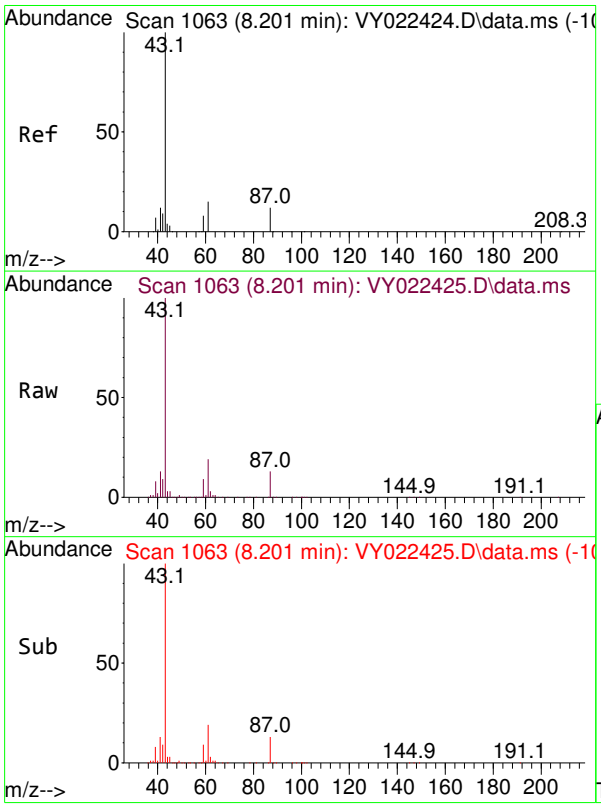


#42
1,2-Dichloroethane
Concen: 104.887 ug/l
RT: 8.165 min Scan# 1057
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 62 Resp: 321758

Ion	Ratio	Lower	Upper
62	100		
98	9.0	0.0	18.4





#43
Isopropyl Acetate
Concen: 106.287 ug/l
RT: 8.201 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 43 Resp: 38529

Ion	Ratio	Lower	Upper
43	100		
61	19.2	15.4	23.0
87	13.0	10.6	15.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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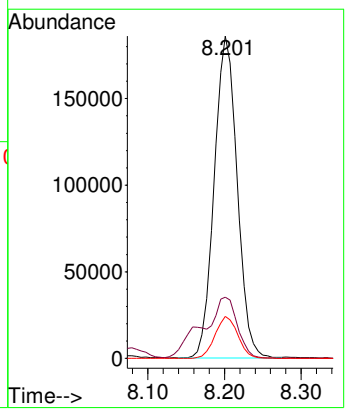
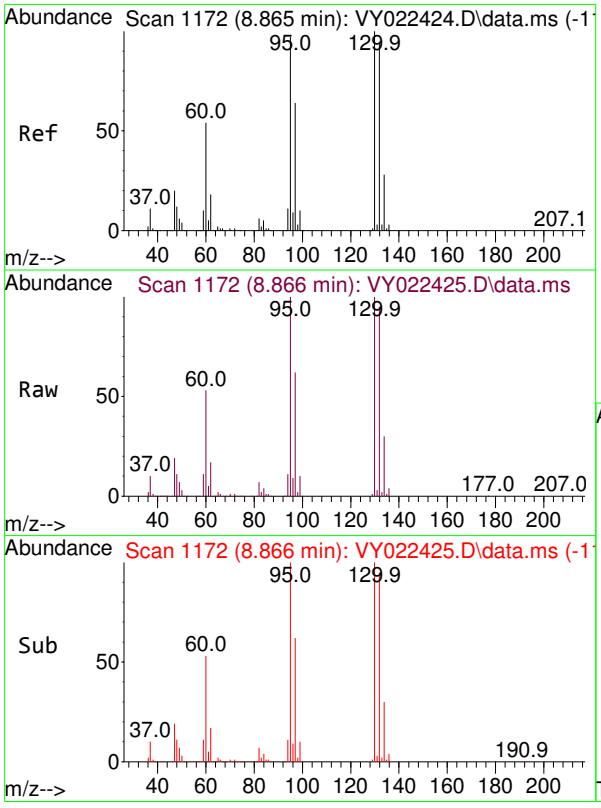
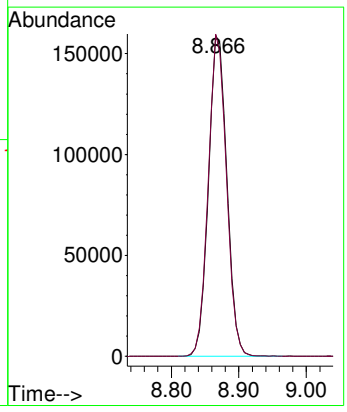


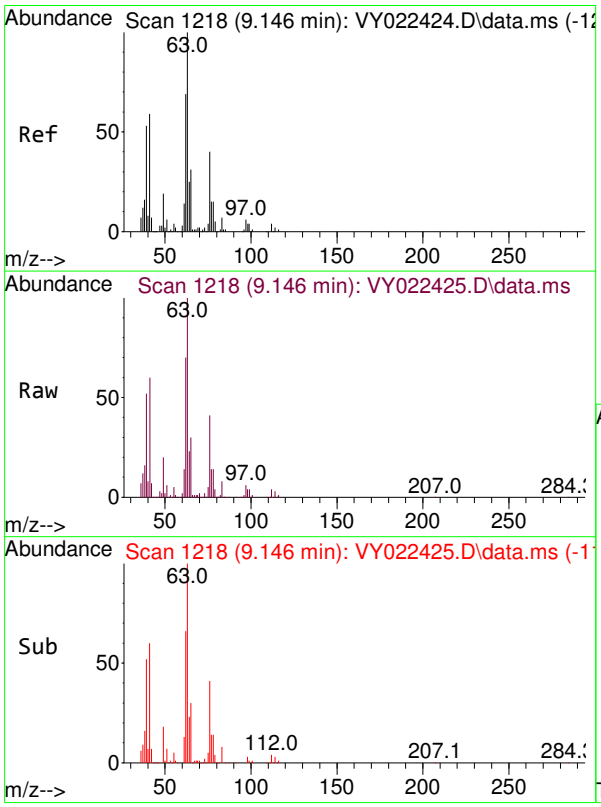


#44
Trichloroethene
Concen: 104.583 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion:130 Resp: 300293

Ion	Ratio	Lower	Upper
130	100		
95	100.4	0.0	194.8





#45
1,2-Dichloropropane
Concen: 105.160 ug/l
RT: 9.146 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 63 Resp: 28698

Ion	Ratio	Lower	Upper
63	100		
65	30.3	25.1	37.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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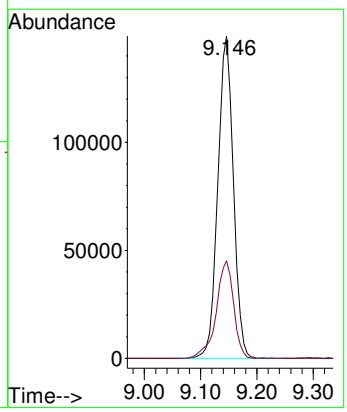
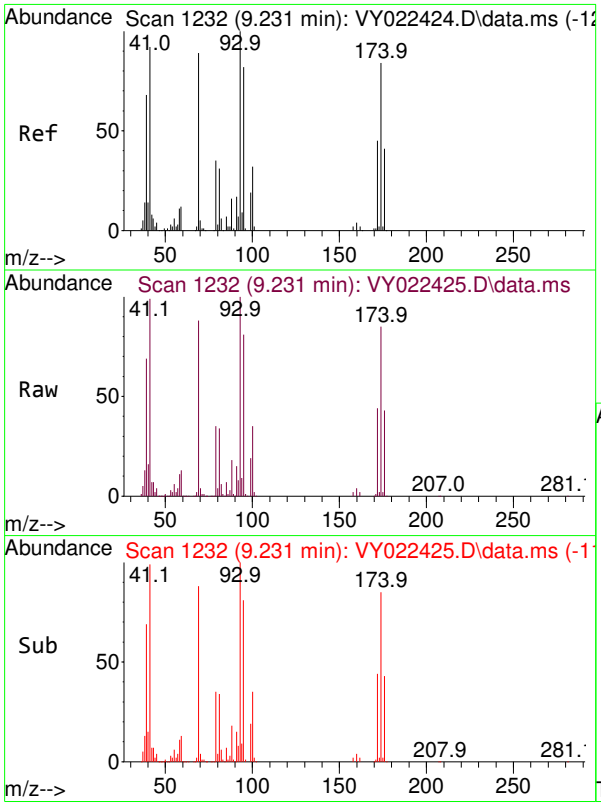
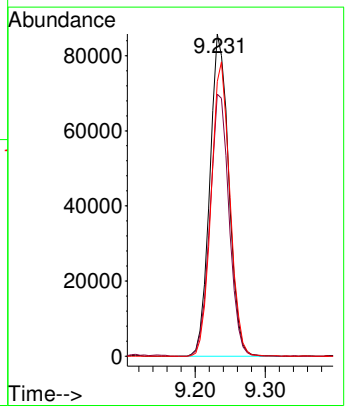


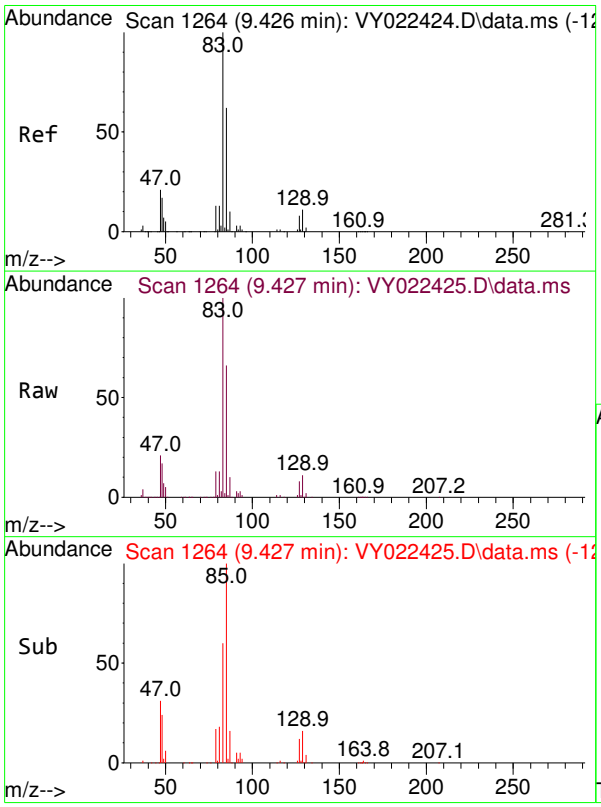


#46
Dibromomethane
Concen: 105.464 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 93 Resp: 160779

Ion	Ratio	Lower	Upper
93	100		
95	81.8	66.2	99.2
174	89.9	71.1	106.7





#47
Bromodichloromethane
Concen: 105.558 ug/l
RT: 9.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 83 Resp: 41382

Ion	Ratio	Lower	Upper
83	100		
85	65.6	49.8	74.6
127	8.0	6.6	9.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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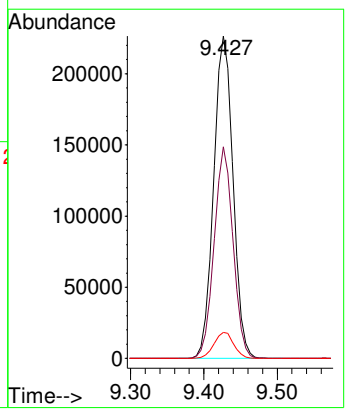
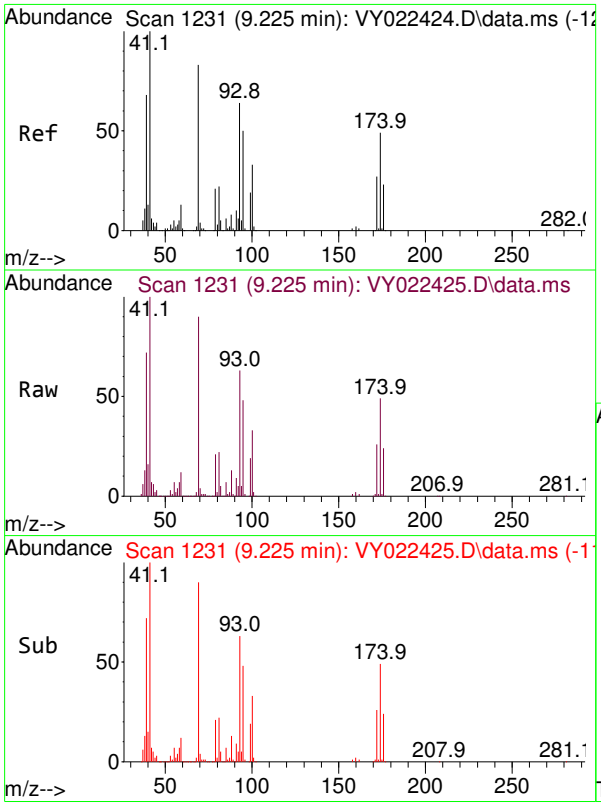
Supervised By :Mahesh Dadoda 05/28/2025

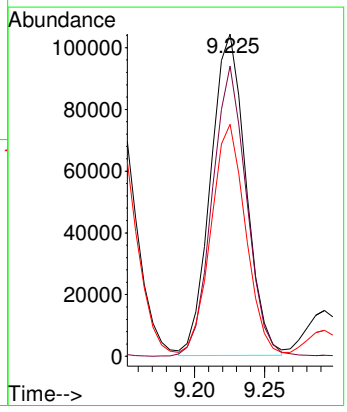


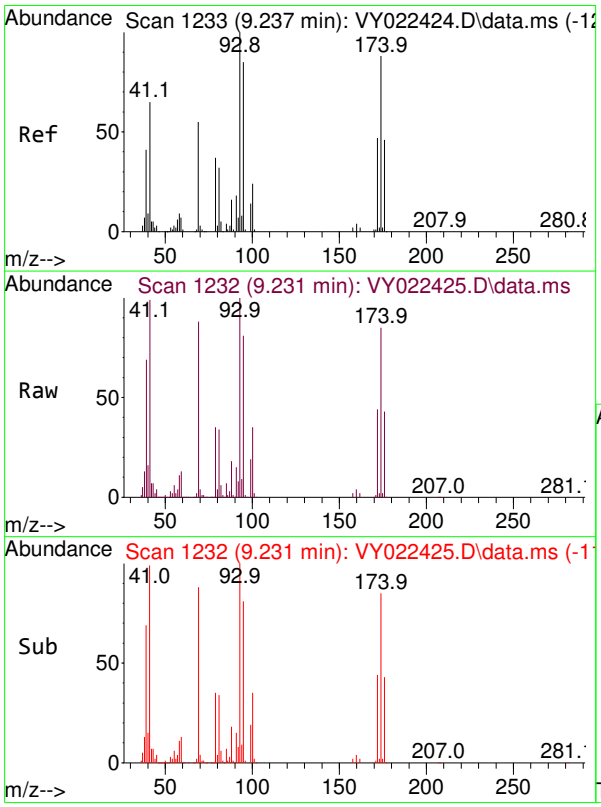


#48
Methyl methacrylate
Concen: 108.116 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 41 Resp: 181931

Ion	Ratio	Lower	Upper
41	100		
69	88.1	70.3	105.5
39	69.0	55.4	83.0





#49
1,4-Dioxane
Concen: 2158.331 ug/l
RT: 9.231 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 88 Resp: 3634

Ion	Ratio	Lower	Upper
88	100		
43	34.2	26.9	40.3
58	65.5	55.8	83.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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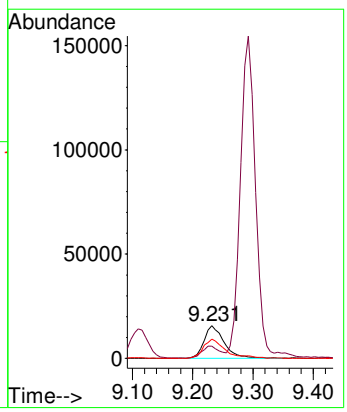
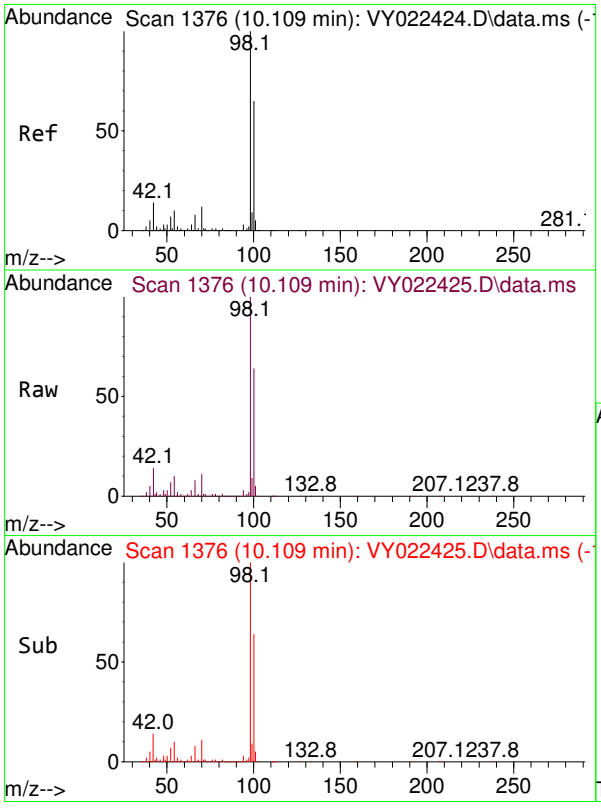
Supervised By :Mahesh Dadoda 05/28/2025

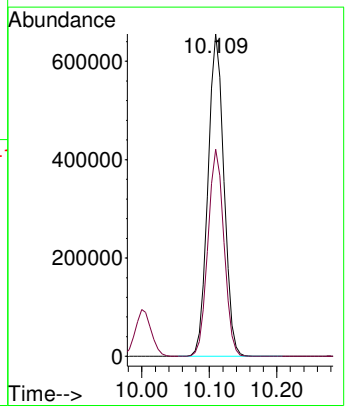


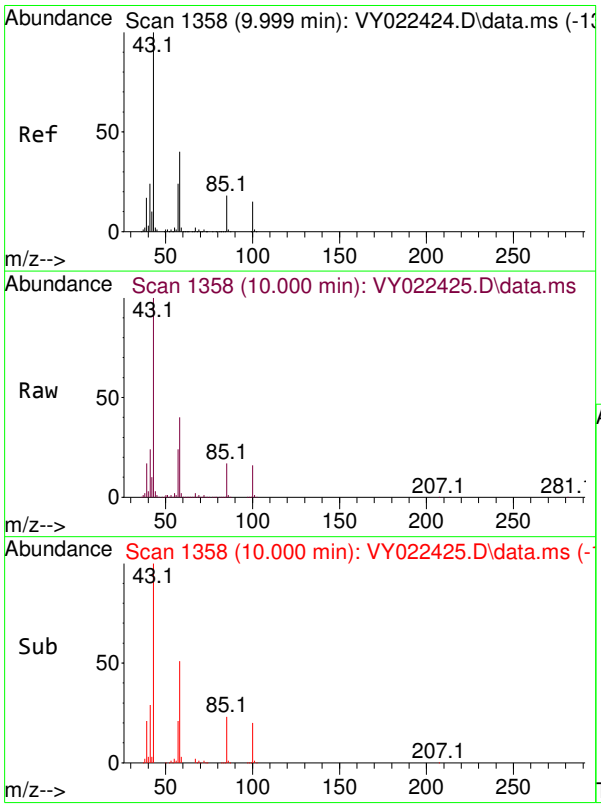


#50
Toluene-d8
Concen: 106.726 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 98 Resp: 1070243

Ion	Ratio	Lower	Upper
98	100		
100	64.5	52.2	78.2





#51
4-Methyl-2-Pentanone
Concen: 556.674 ug/l
RT: 10.000 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 43 Resp: 99566

Ion	Ratio	Lower	Upper
43	100		
58	39.4	31.2	46.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
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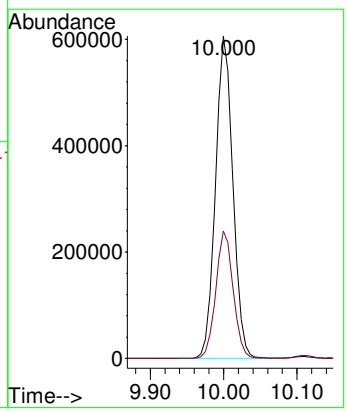
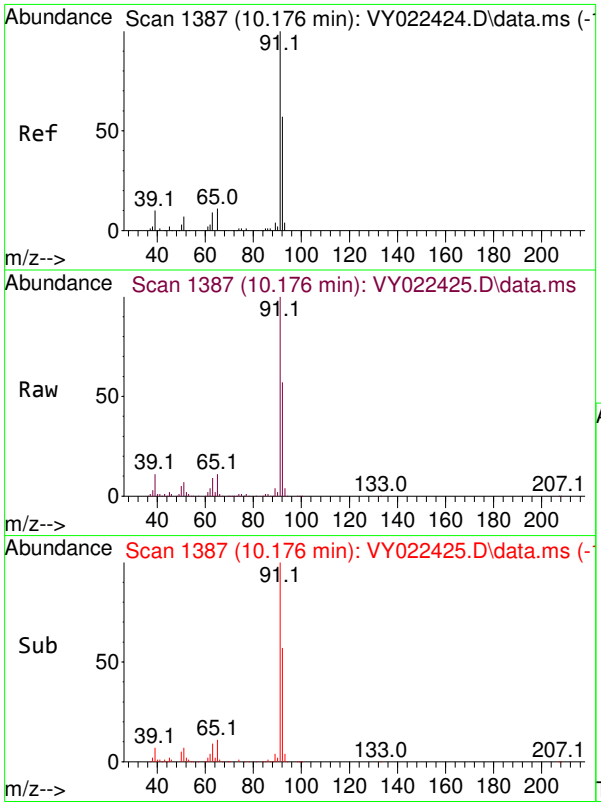
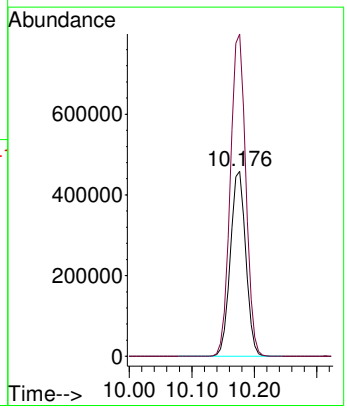


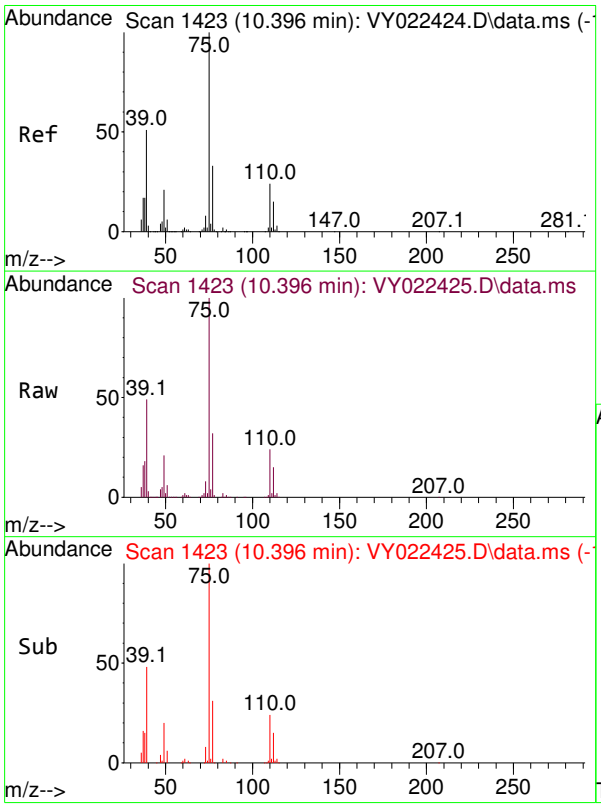


#52
Toluene
Concen: 107.563 ug/l
RT: 10.176 min Scan# 1387
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 92 Resp: 780350

Ion	Ratio	Lower	Upper
92	100		
91	175.4	139.8	209.6





#53
t-1,3-Dichloropropene
Concen: 108.544 ug/l
RT: 10.396 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 75 Resp: 39636

Ion	Ratio	Lower	Upper
75	100		
77	31.6	26.2	39.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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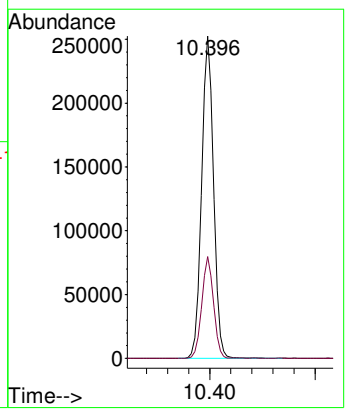
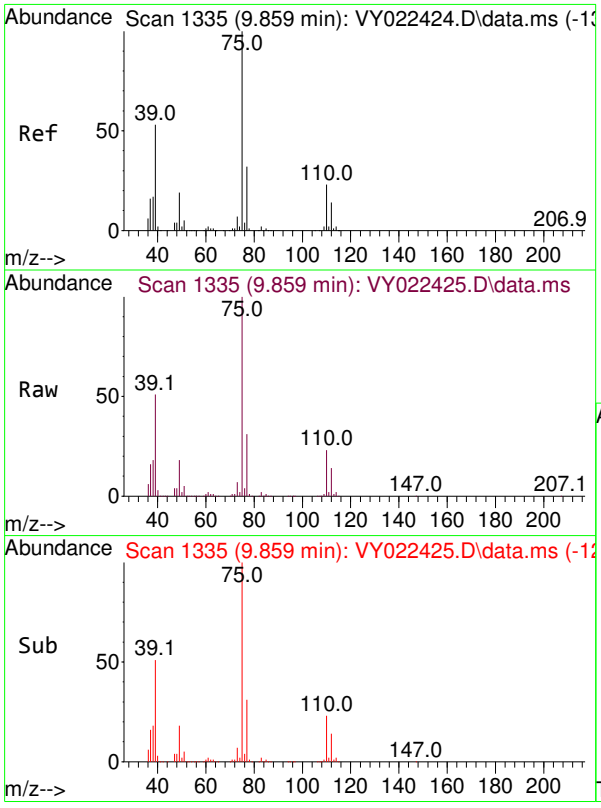
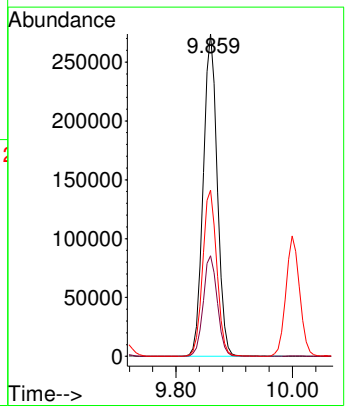


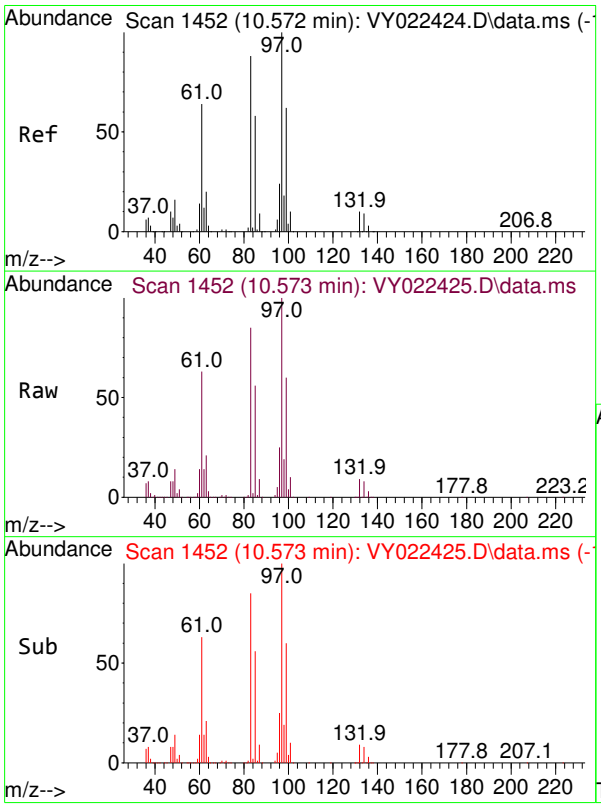


#54
cis-1,3-Dichloropropene
Concen: 107.411 ug/l
RT: 9.859 min Scan# 1335
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 75 Resp: 460876

Ion	Ratio	Lower	Upper
75	100		
77	31.2	25.4	38.2
39	51.4	42.5	63.7

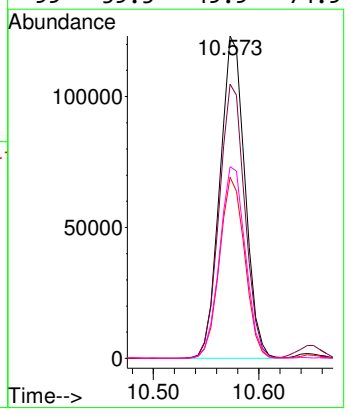




#55
1,1,2-Trichloroethane
Concen: 106.007 ug/l
RT: 10.573 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 97 Resp: 20432

Ion	Ratio	Lower	Upper
97	100		
83	85.1	70.2	105.4
85	56.2	46.1	69.1
99	59.5	49.9	74.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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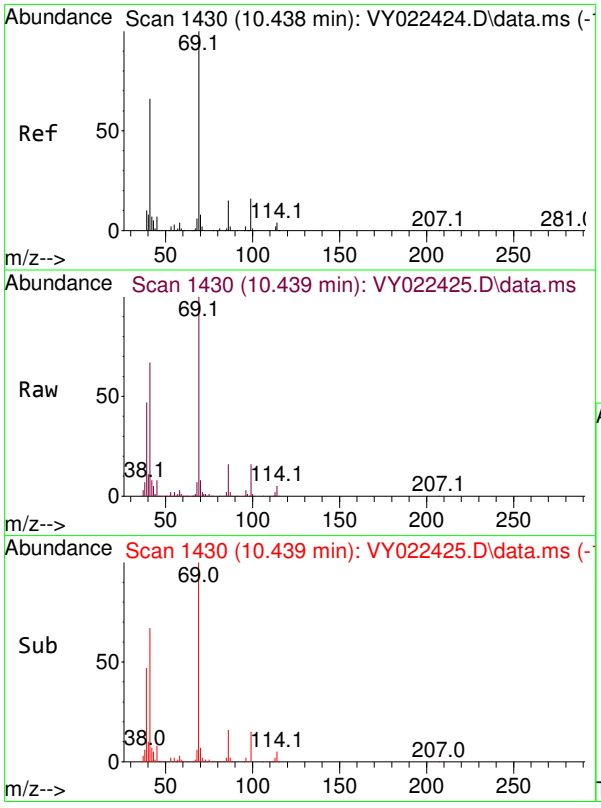
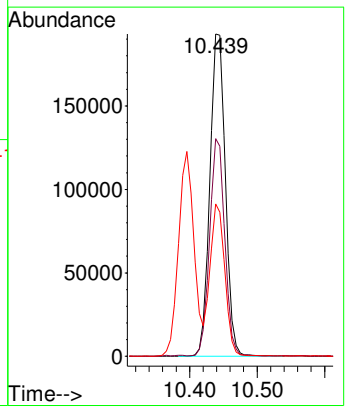
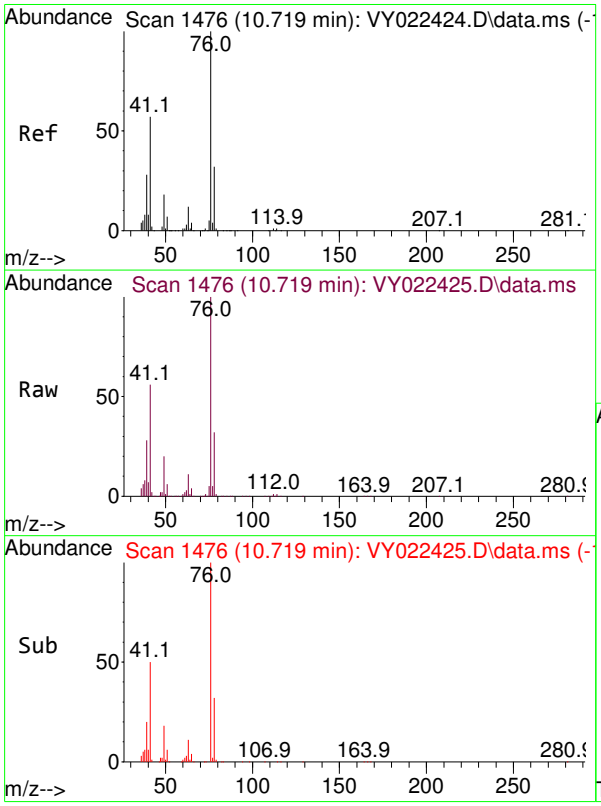


#56
Ethyl methacrylate
Concen: 110.908 ug/l
RT: 10.439 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 69 Resp: 306772

Ion	Ratio	Lower	Upper
69	100		
41	65.8	51.2	76.8
39	44.7	35.2	52.8





#57
1,3-Dichloropropane
Concen: 105.893 ug/l
RT: 10.719 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 76 Resp: 35968

Ion	Ratio	Lower	Upper
76	100		
78	32.6	25.8	38.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
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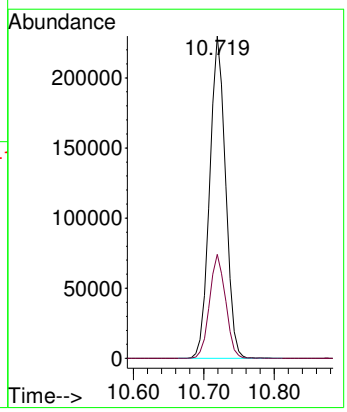
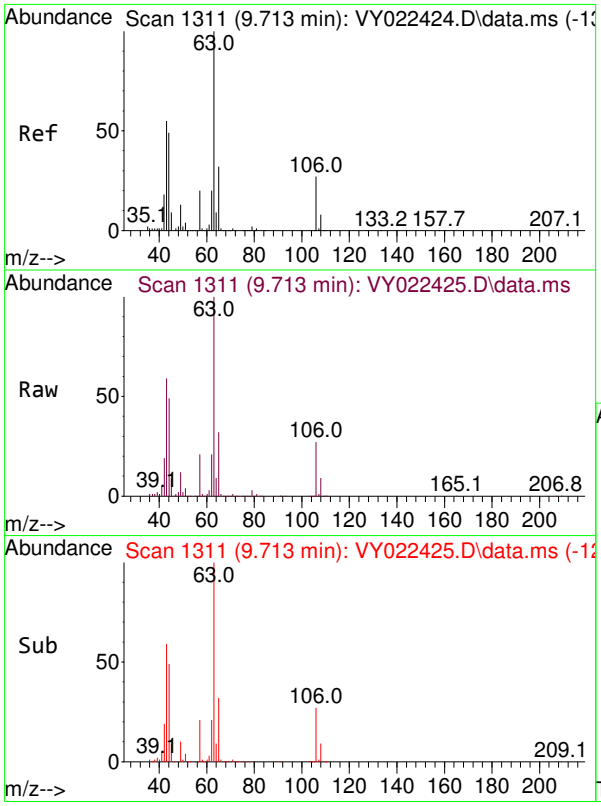
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

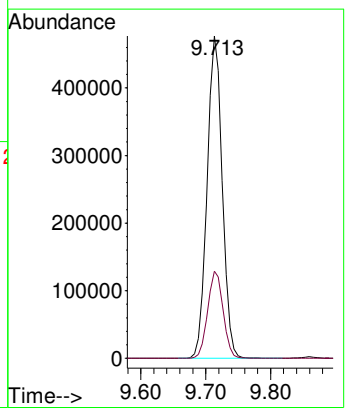


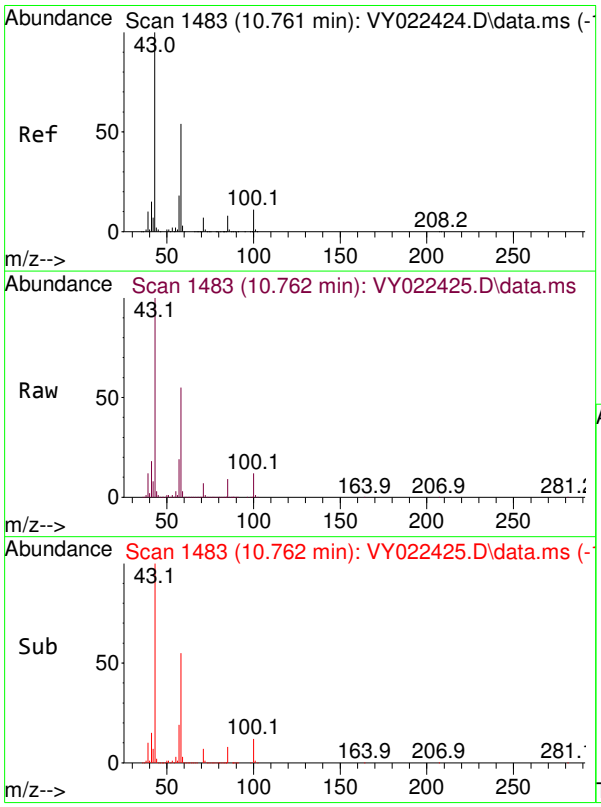


#58
2-Chloroethyl Vinyl ether
Concen: 559.284 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 63 Resp: 770988

Ion	Ratio	Lower	Upper
63	100		
106	27.5	22.2	33.2





#59
2-Hexanone
Concen: 563.900 ug/l
RT: 10.762 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 43 Resp: 66098

Ion	Ratio	Lower	Upper
43	100		
58	55.2	27.1	81.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
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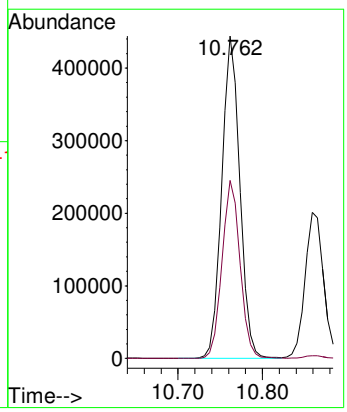
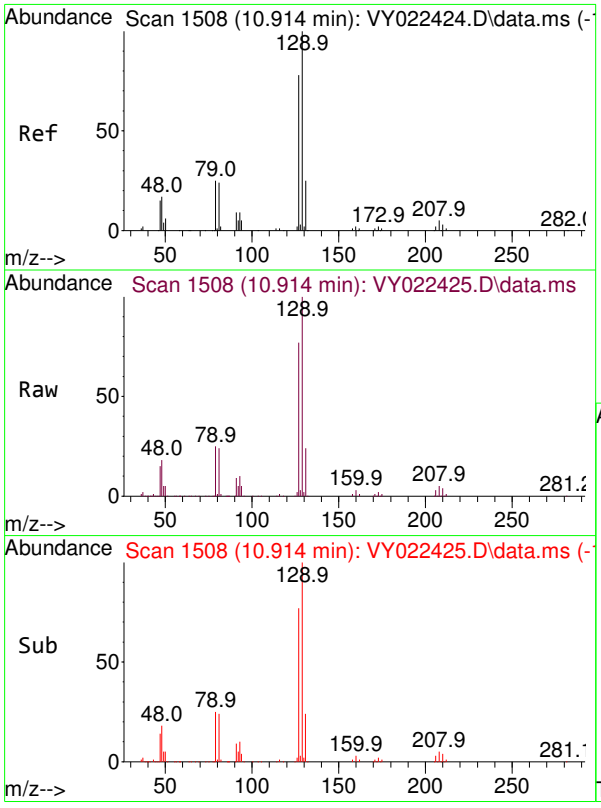
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

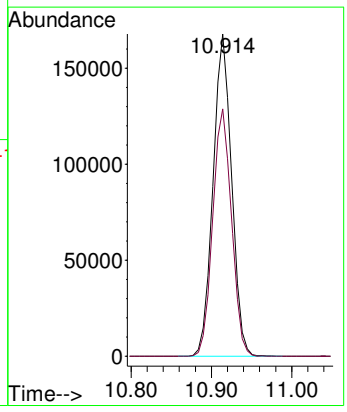


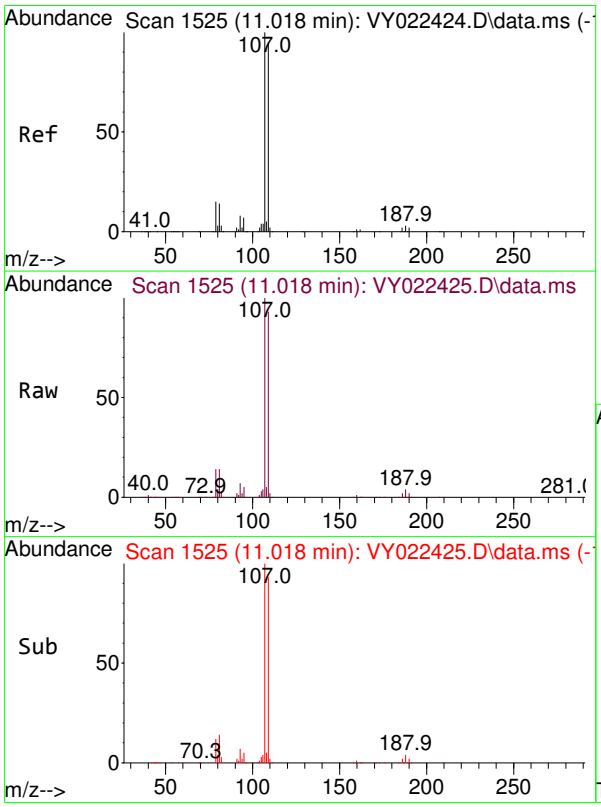


#60
Dibromochloromethane
Concen: 109.221 ug/l
RT: 10.914 min Scan# 1508
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion:129 Resp: 268919

Ion	Ratio	Lower	Upper
129	100		
127	77.7	38.3	114.8





#61
1,2-Dibromoethane
Concen: 106.485 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion:107 Resp: 18772

Ion	Ratio	Lower	Upper
107	100		
109	94.6	74.0	111.(

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
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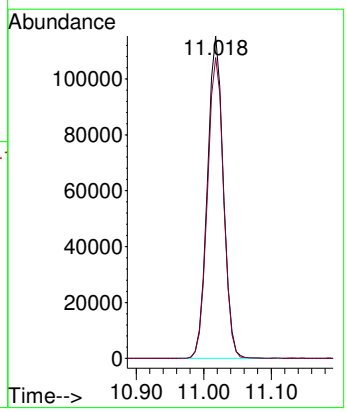
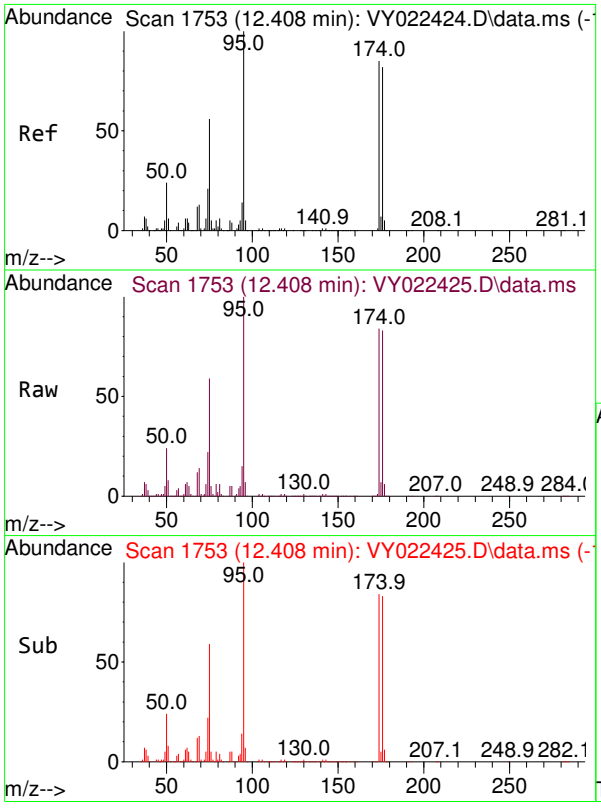
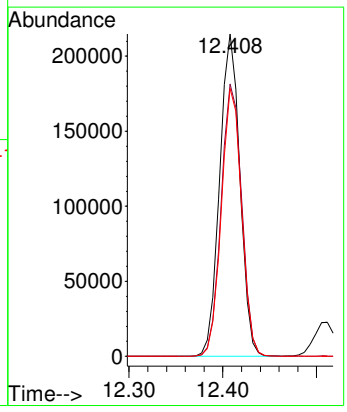


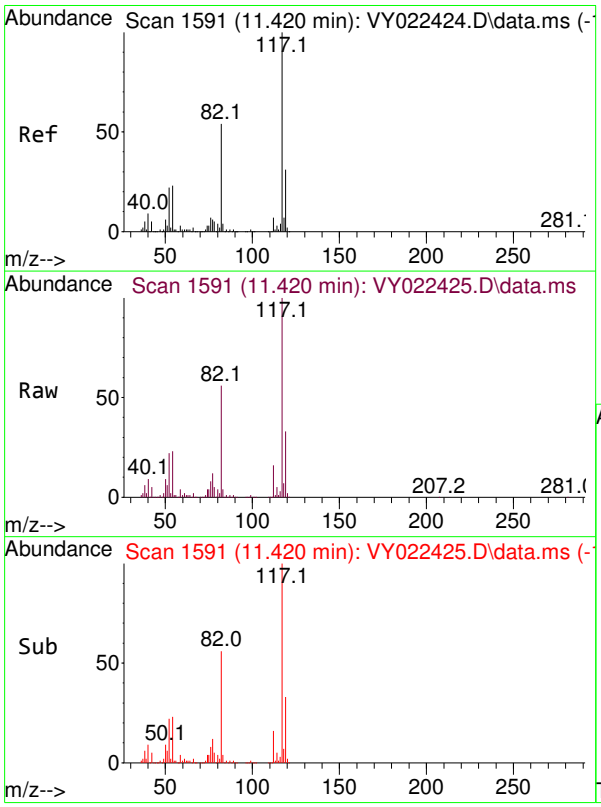


#62
4-Bromofluorobenzene
Concen: 105.861 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 95 Resp: 321108

Ion	Ratio	Lower	Upper
95	100		
174	85.7	0.0	171.6
176	82.9	0.0	164.6





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion:117 Resp: 36414

Ion	Ratio	Lower	Upper
117	100		
82	55.6	43.3	64.9
119	32.5	24.5	36.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
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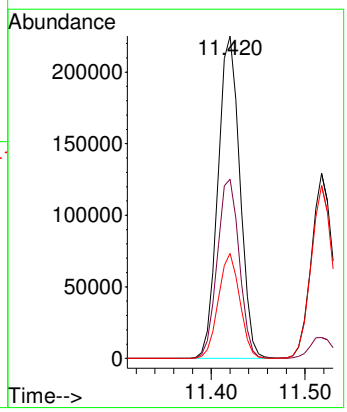
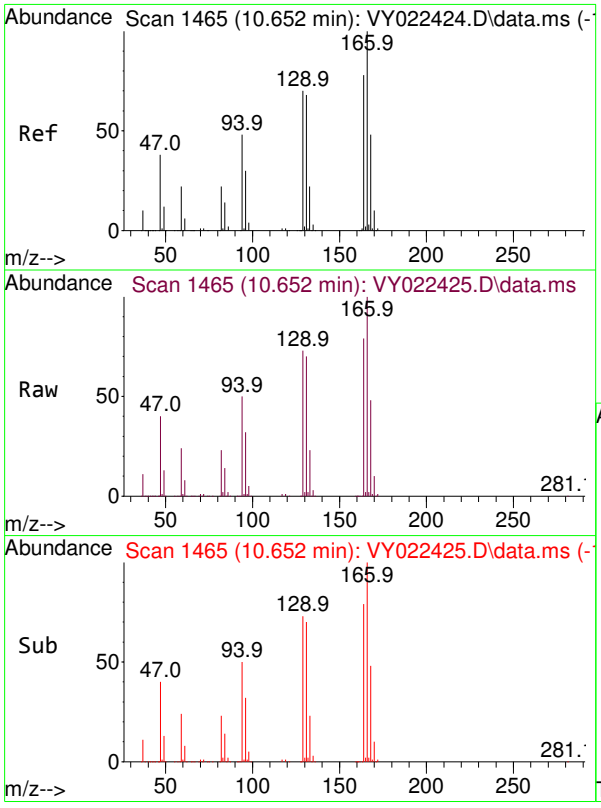
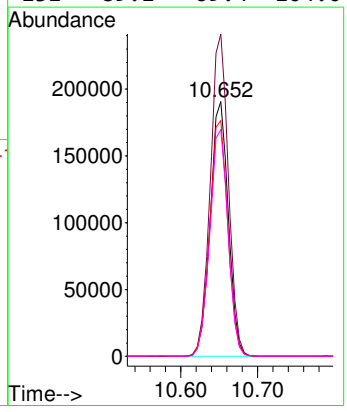


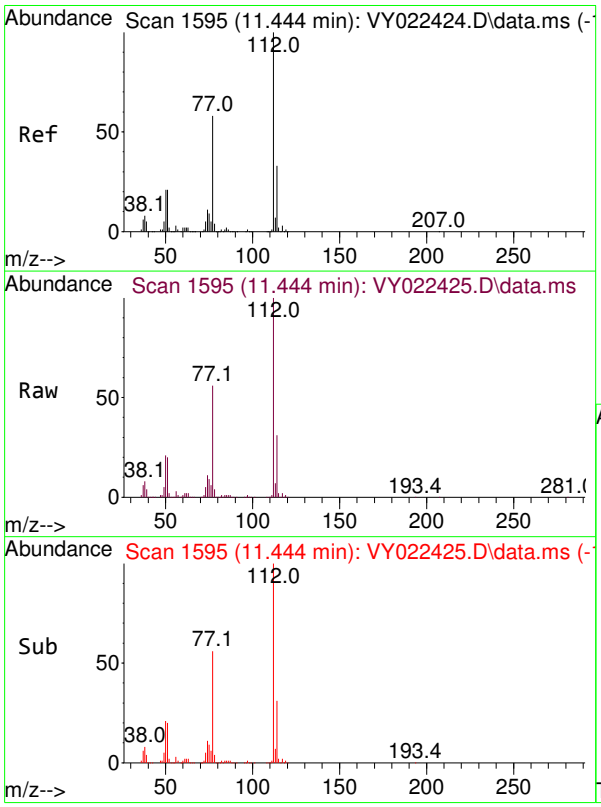


#64
Tetrachloroethene
Concen: 100.828 ug/l
RT: 10.652 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion:164 Resp: 312696

Ion	Ratio	Lower	Upper
164	100		
166	126.5	102.0	153.0
129	92.5	71.3	106.9
131	89.1	69.4	104.0





#65
Chlorobenzene
Concen: 106.209 ug/l
RT: 11.444 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion:112 Resp: 82468

Ion	Ratio	Lower	Upper
112	100		
114	31.3	26.1	39.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
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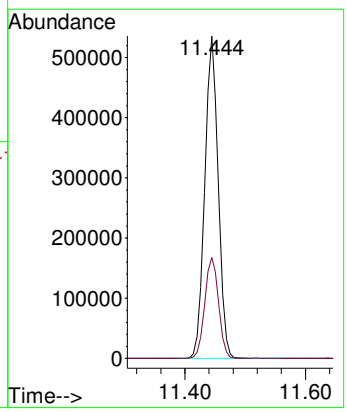
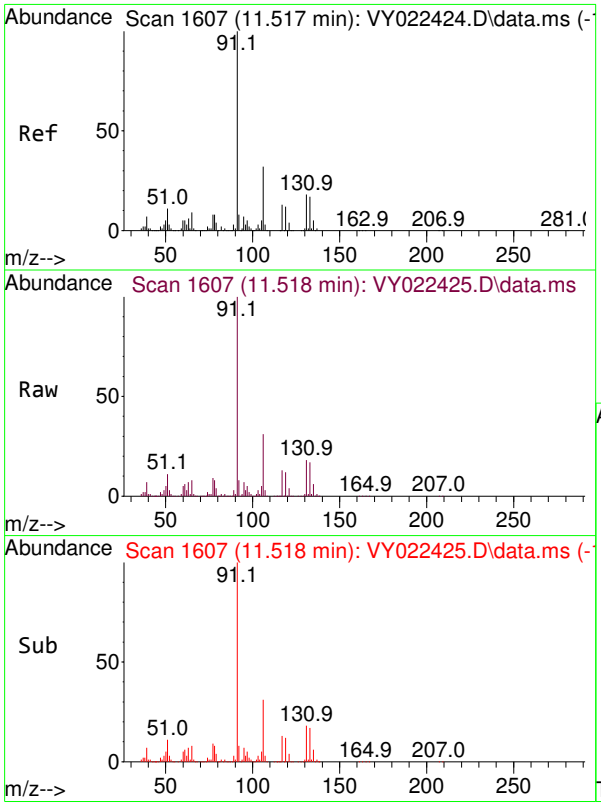
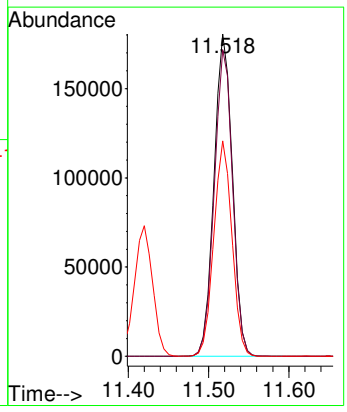


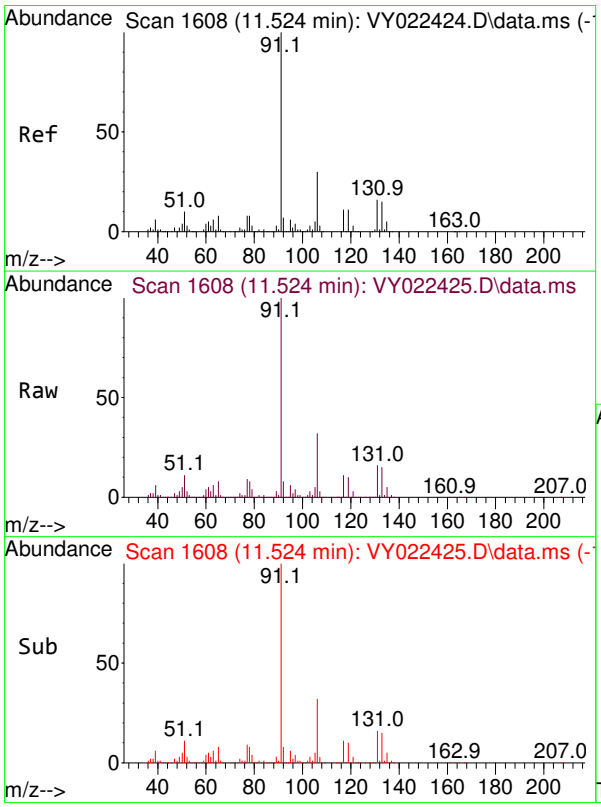


#66
1,1,1,2-Tetrachloroethane
Concen: 108.640 ug/l
RT: 11.518 min Scan# 1607
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion:131 Resp: 285811

Ion	Ratio	Lower	Upper
131	100		
133	94.9	46.6	139.8
119	66.3	33.3	99.8





#67
Ethyl Benzene
Concen: 108.210 ug/l
RT: 11.524 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 91 Resp: 156011

Ion	Ratio	Lower	Upper
91	100		
106	31.6	24.4	36.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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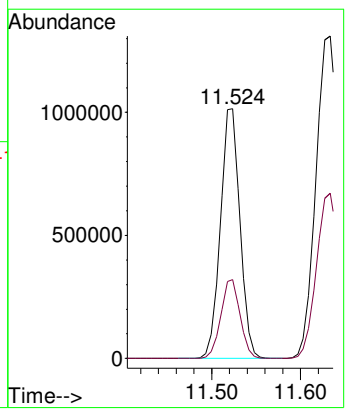
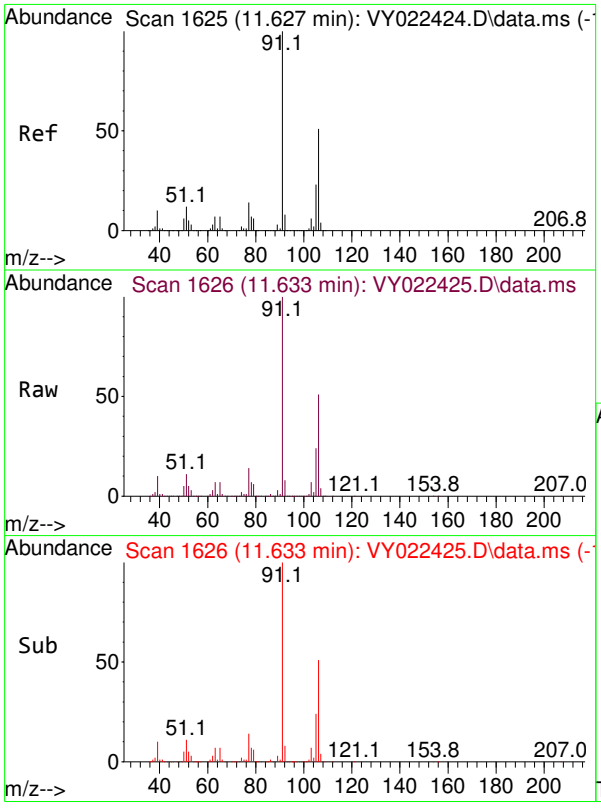
Supervised By :Mahesh Dadoda 05/28/2025

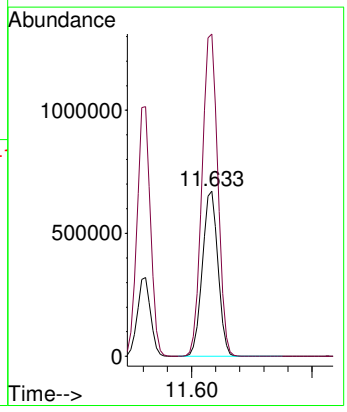


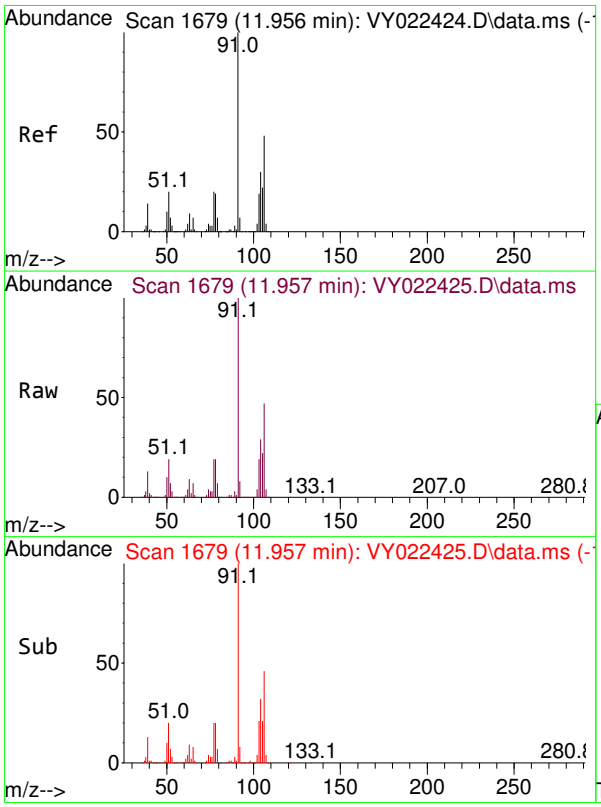


#68
m/p-Xylenes
Concen: 219.811 ug/l
RT: 11.633 min Scan# 1626
Delta R.T. 0.006 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion:106 Resp: 1201541

Ion	Ratio	Lower	Upper
106	100		
91	198.0	159.8	239.8





#69
o-Xylene
Concen: 108.917 ug/l
RT: 11.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion:106 Resp: 55955

Ion	Ratio	Lower	Upper
106	100		
91	212.1	106.3	318.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
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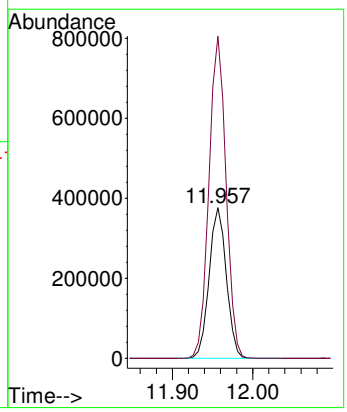
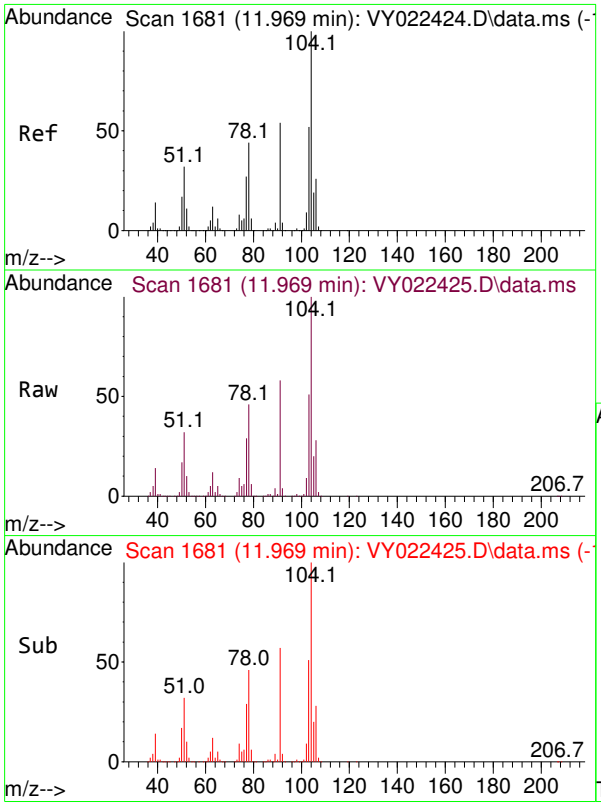
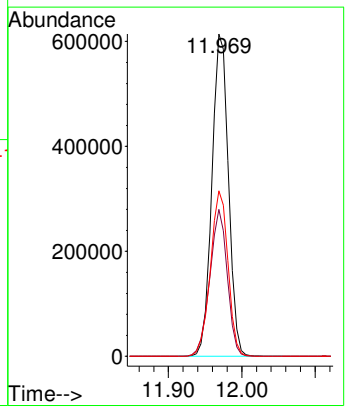


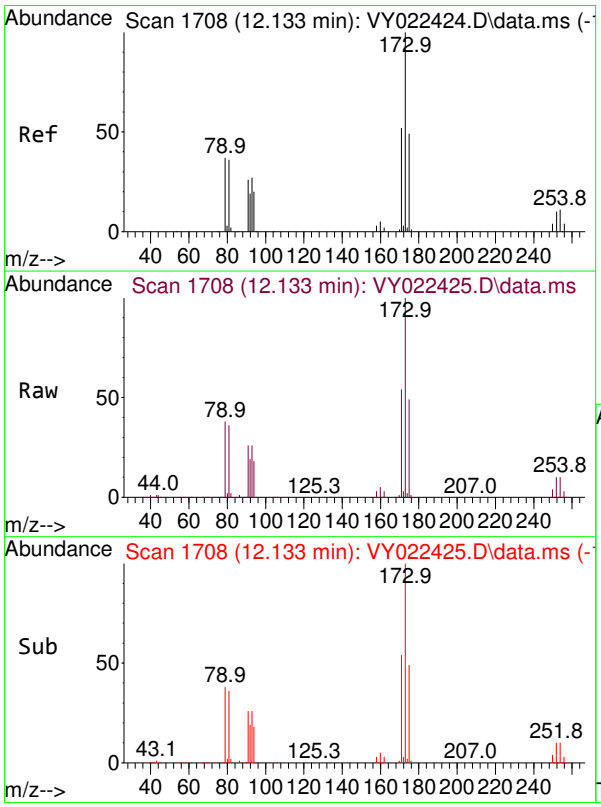


#70
Styrene
Concen: 112.144 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion:104 Resp: 959318

Ion	Ratio	Lower	Upper
104	100		
78	48.1	38.8	58.2
103	54.6	43.4	65.2

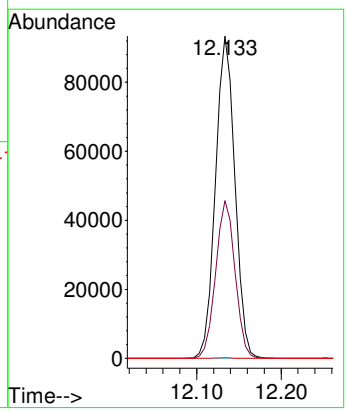




#71
Bromoform
Concen: 108.623 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion:173 Resp: 14968

Ion	Ratio	Lower	Upper
173	100		
175	48.8	24.3	73.0
254	0.2	0.1	0.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
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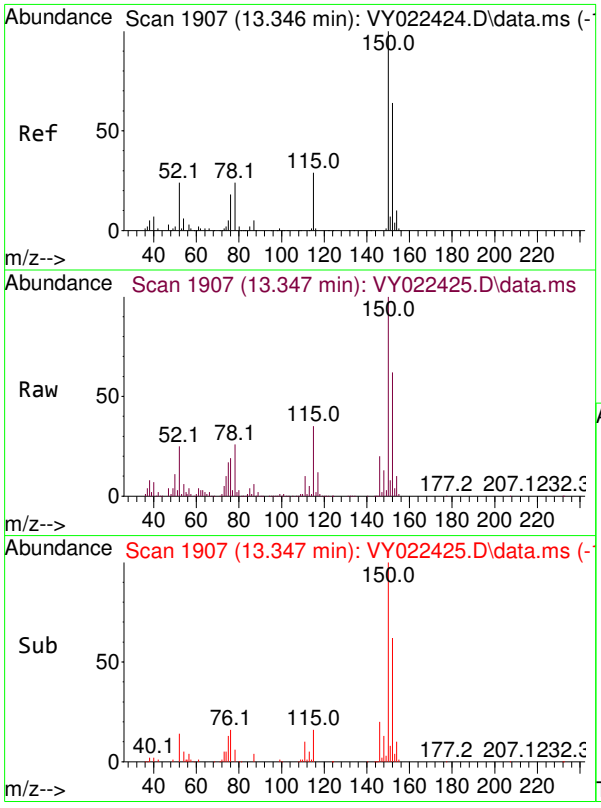
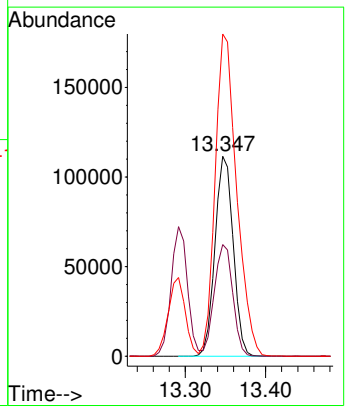
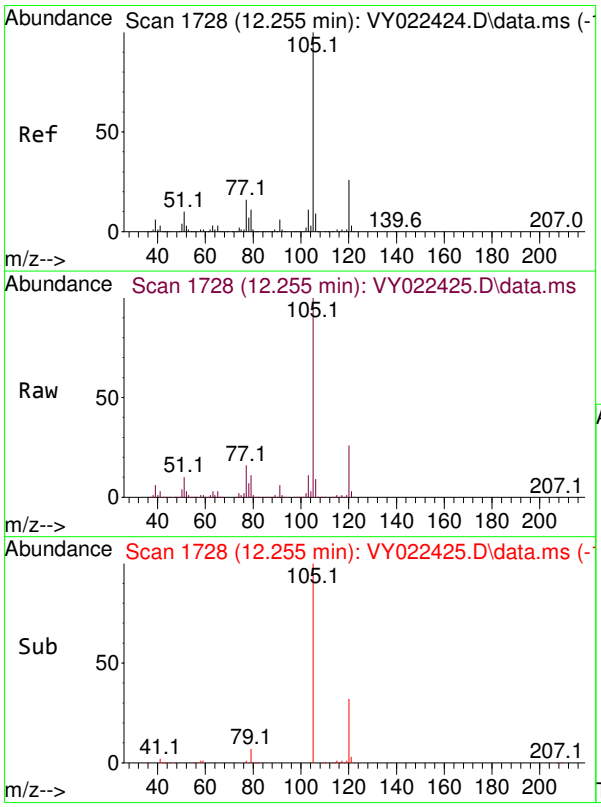


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion:152 Resp: 175436

Ion	Ratio	Lower	Upper
152	100		
115	57.0	28.4	85.3
150	190.1	0.0	345.8





#73
Isopropylbenzene
Concen: 104.314 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion:105 Resp: 144031

Ion	Ratio	Lower	Upper
105	100		
120	26.2	13.2	39.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
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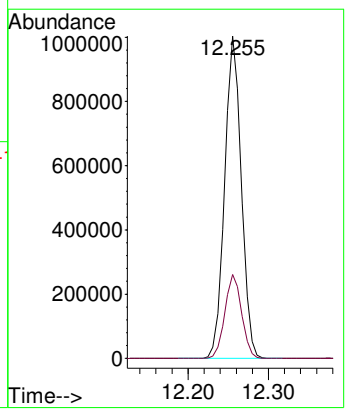
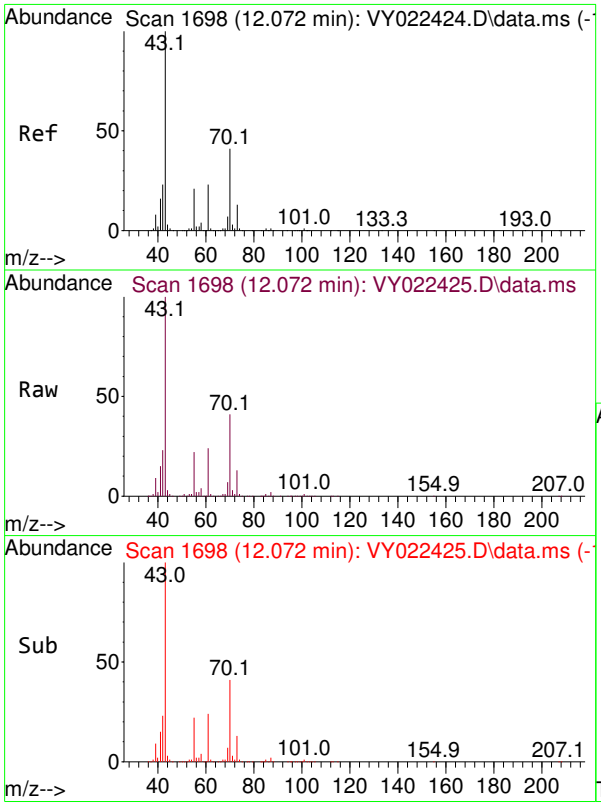
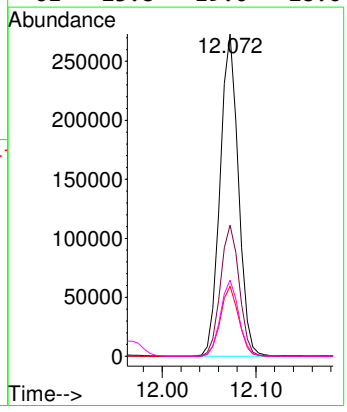


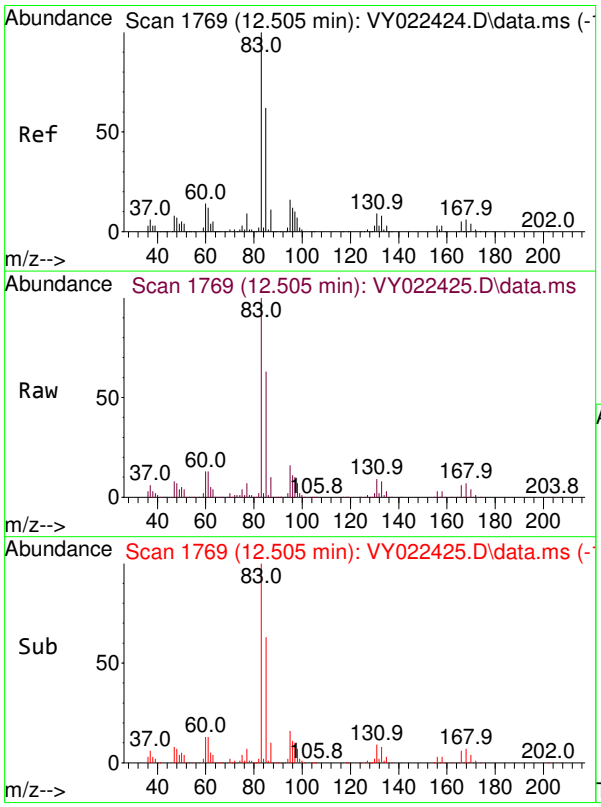


#74
N-amyl acetate
Concen: 109.087 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 43 Resp: 368563

Ion	Ratio	Lower	Upper
43	100		
70	41.8	33.0	49.4
55	21.8	17.5	26.3
61	23.8	19.0	28.6





#75
1,1,2,2-Tetrachloroethane
Concen: 105.191 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 83 Resp: 22883

Ion	Ratio	Lower	Upper
83	100		
131	9.5	4.8	14.4
85	64.1	32.0	96.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

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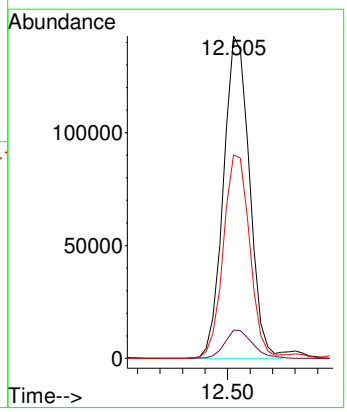
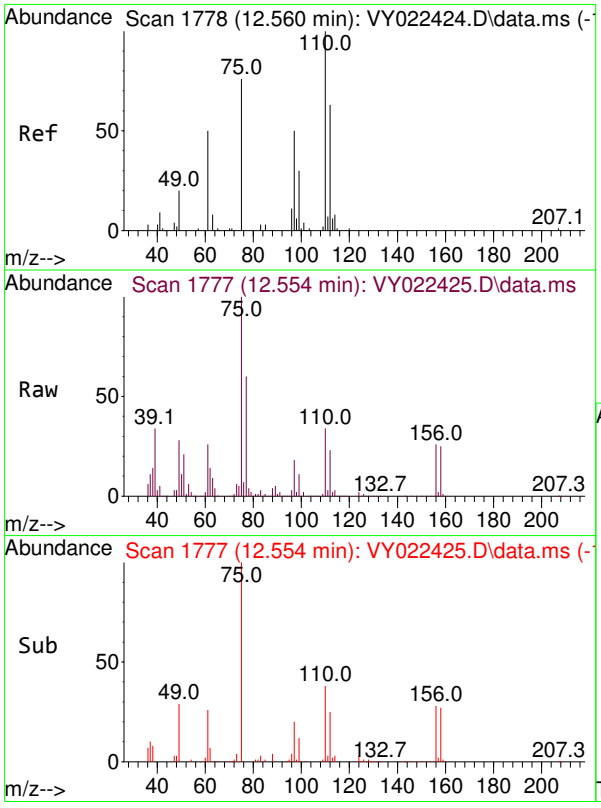
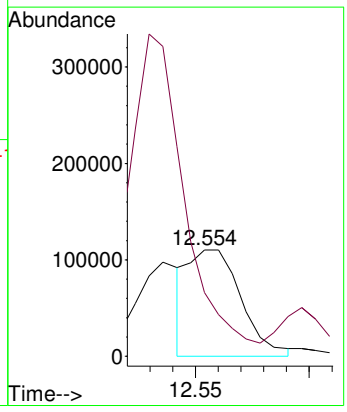


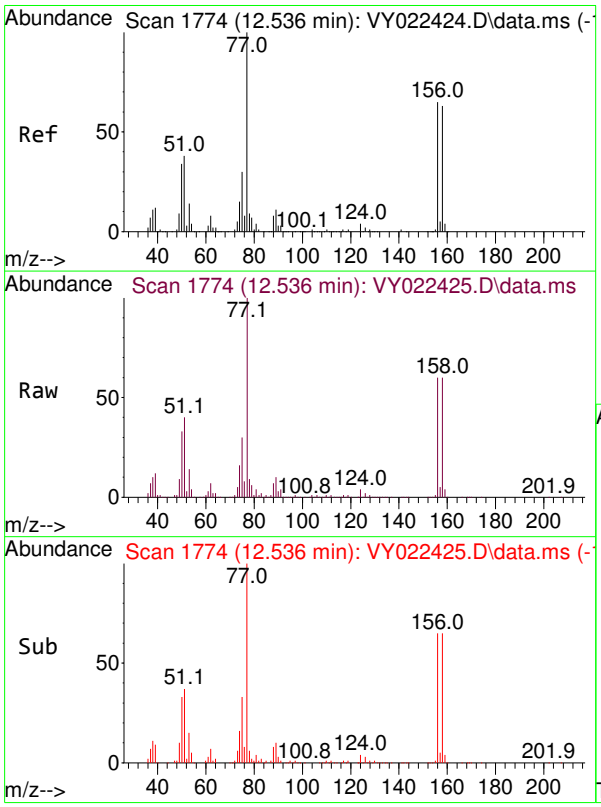


#76
1,2,3-Trichloropropane
Concen: 61.586 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. -0.006 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 75 Resp: 178010

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

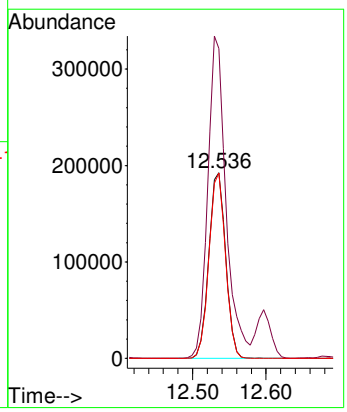




#77
Bromobenzene
Concen: 102.933 ug/l
RT: 12.536 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion:156 Resp: 30584

Ion	Ratio	Lower	Upper
156	100		
77	188.3	91.4	274.2
158	98.0	48.1	144.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
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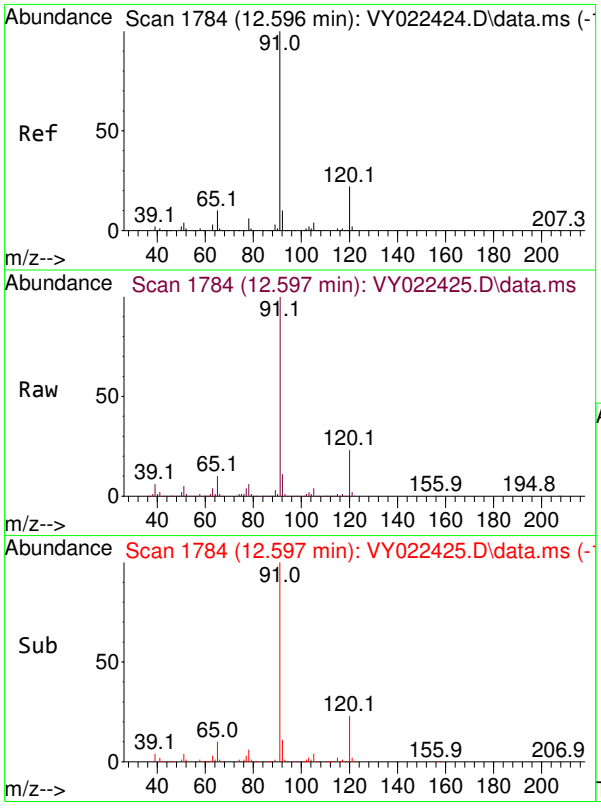
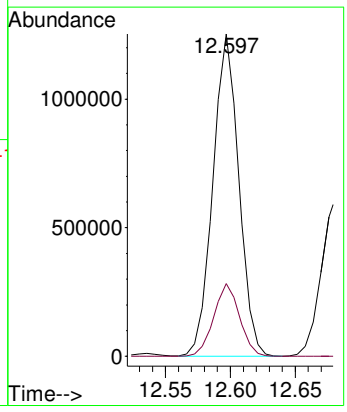
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

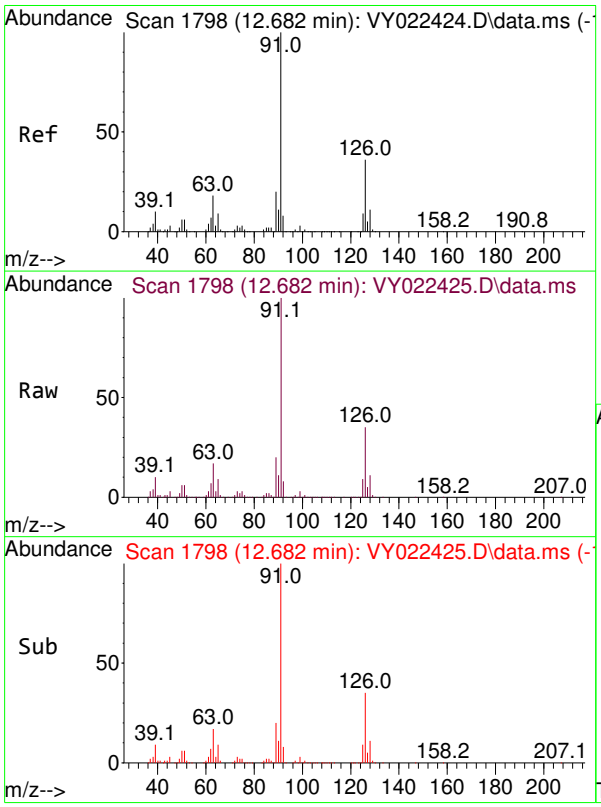


#78
n-propylbenzene
Concen: 104.859 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 91 Resp: 1737515

Ion	Ratio	Lower	Upper
91	100		
120	22.5	11.2	33.5





#79
2-Chlorotoluene
Concen: 104.209 ug/l
RT: 12.682 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 91 Resp: 93471

Ion	Ratio	Lower	Upper
91	100		
126	34.4	17.4	52.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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Reviewed By :Amit Patel 05/28/2025
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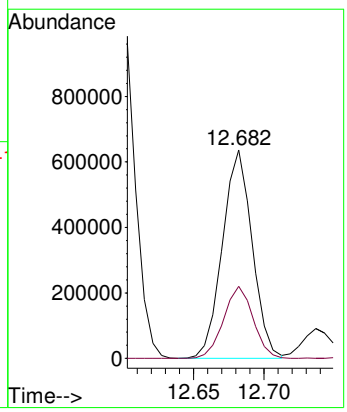
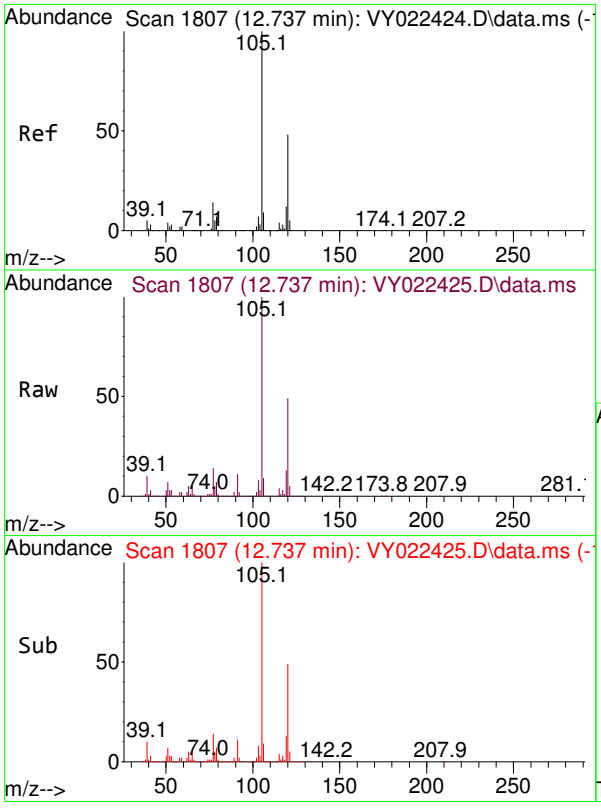
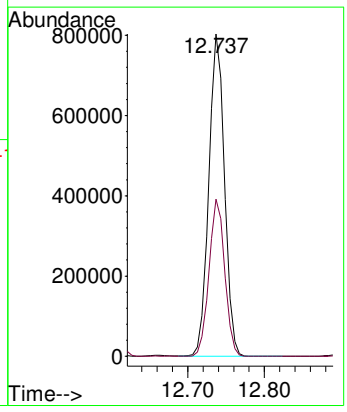


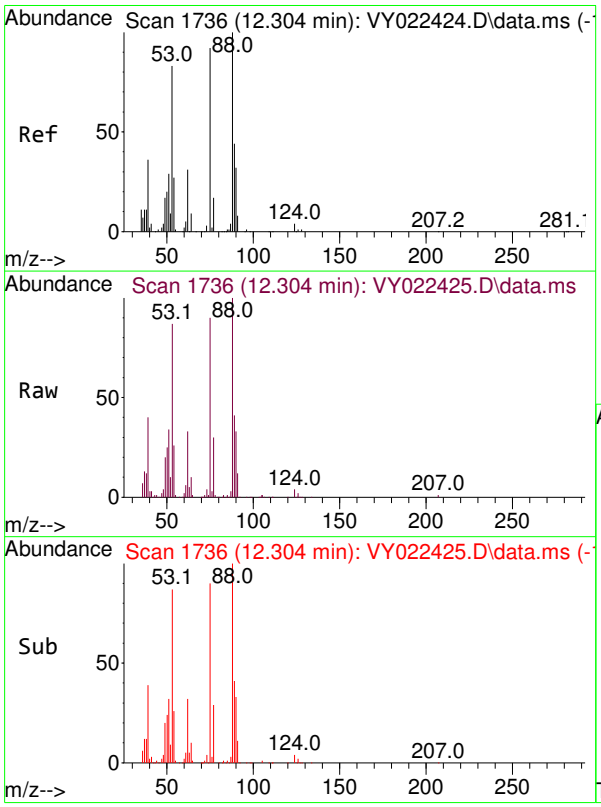


#80
1,3,5-Trimethylbenzene
Concen: 105.961 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion:105 Resp: 1143145

Ion	Ratio	Lower	Upper
105	100		
120	48.9	24.3	73.0





#81
trans-1,4-Dichloro-2-butene
Concen: 103.668 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 75 Resp: 8055

Ion	Ratio	Lower	Upper
75	100		
53	94.1	75.1	112.7
89	45.2	37.4	56.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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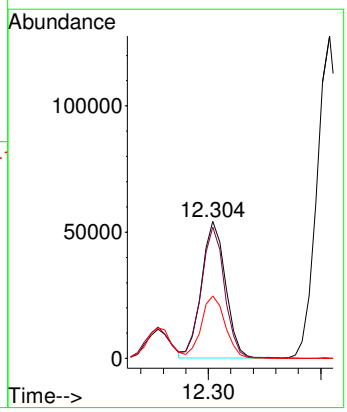
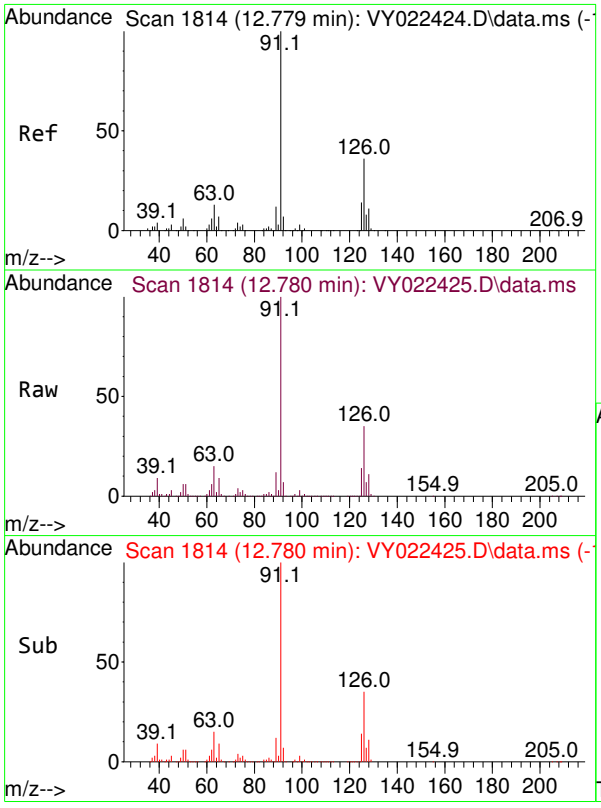
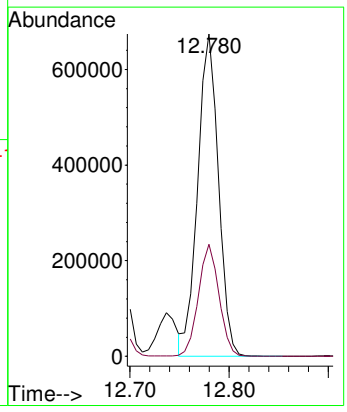


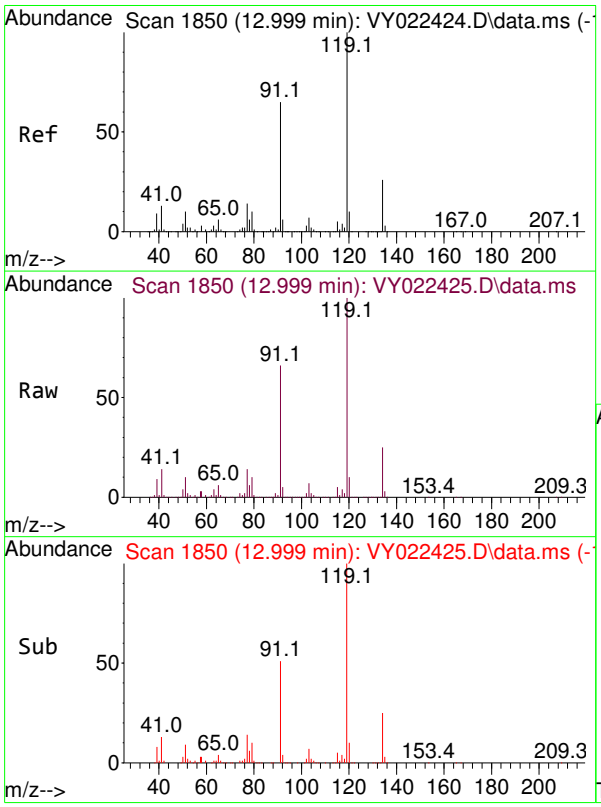


#82
4-Chlorotoluene
Concen: 105.314 ug/l
RT: 12.780 min Scan# 1814
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 91 Resp: 972892

Ion	Ratio	Lower	Upper
91	100		
126	34.6	17.2	51.6

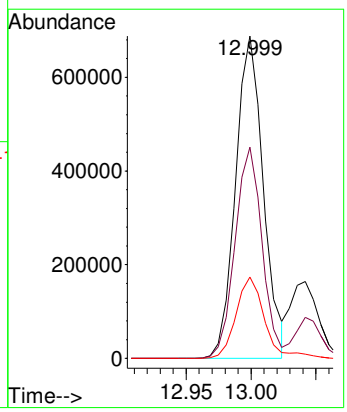




#83
tert-Butylbenzene
Concen: 105.025 ug/l
RT: 12.999 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion:119 Resp: 102370

Ion	Ratio	Lower	Upper
119	100		
91	63.5	31.8	95.3
134	26.0	13.0	38.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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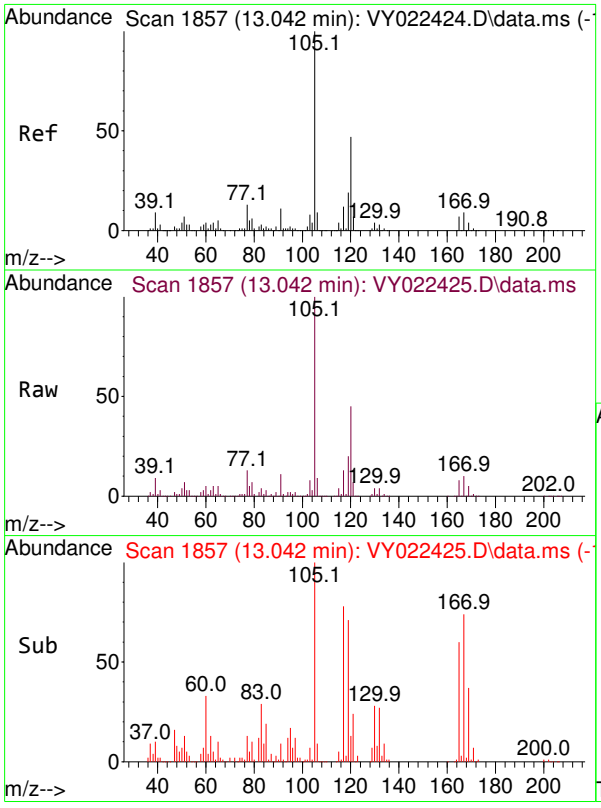
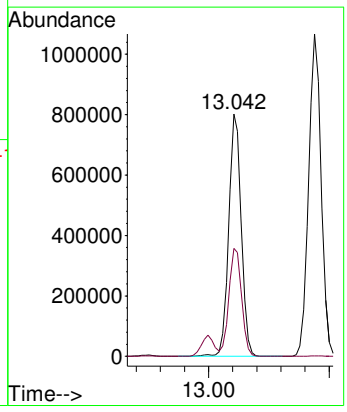
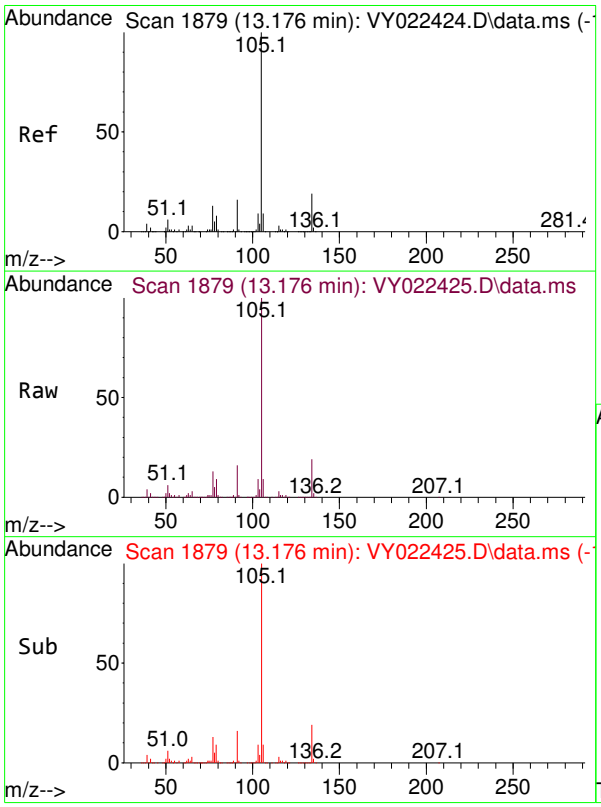


#84
1,2,4-Trimethylbenzene
Concen: 106.843 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion:105 Resp: 1159943

Ion	Ratio	Lower	Upper
105	100		
120	45.3	22.9	68.5





#85
sec-Butylbenzene
Concen: 105.741 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion:105 Resp: 152852

Ion	Ratio	Lower	Upper
105	100		
134	19.7	9.7	29.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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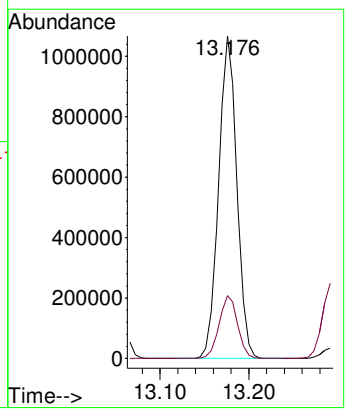
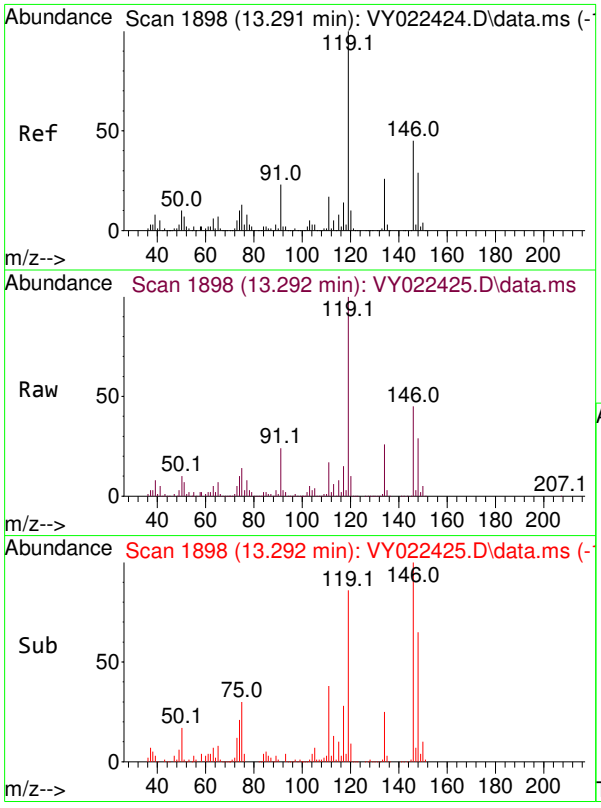
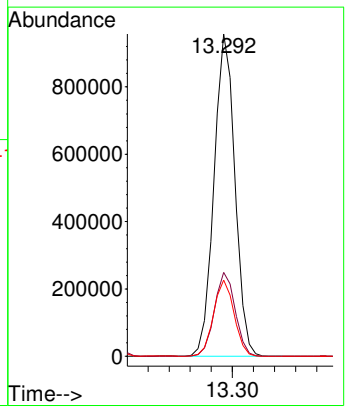


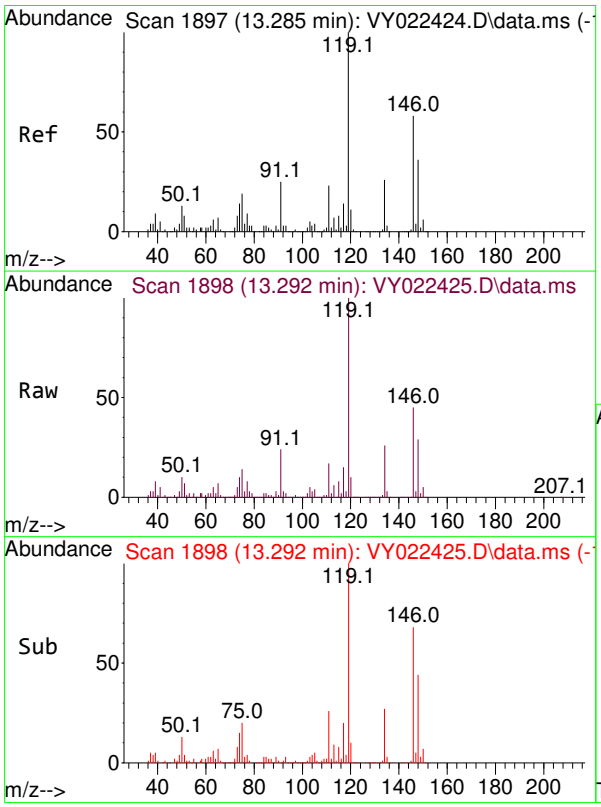


#86
p-Isopropyltoluene
Concen: 109.402 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion:119 Resp: 1320591

Ion	Ratio	Lower	Upper
119	100		
134	26.0	13.0	39.0
91	23.3	11.6	34.8





#87
1,3-Dichlorobenzene
Concen: 107.749 ug/l
RT: 13.292 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion:146 Resp: 64418

Ion	Ratio	Lower	Upper
146	100		
111	39.5	19.6	58.8
148	63.5	31.7	95.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
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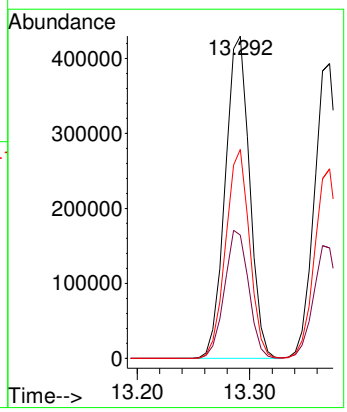
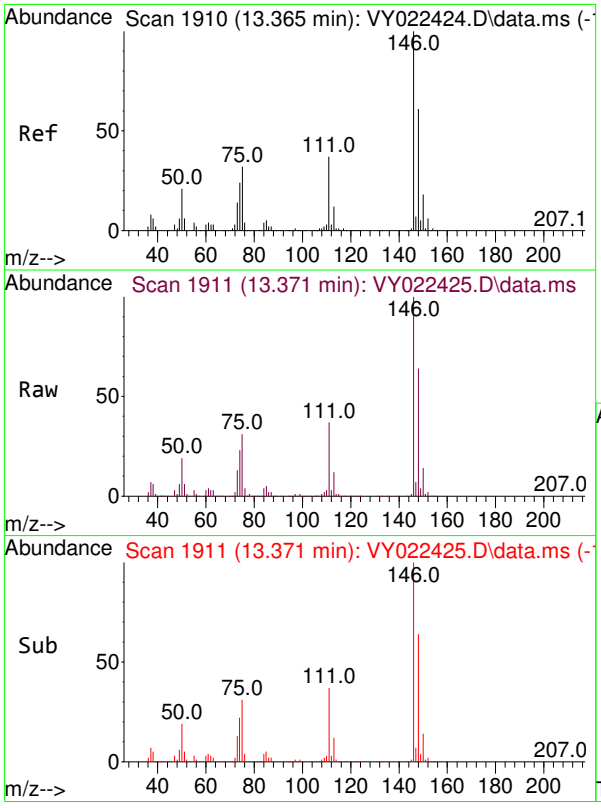
Supervised By :Mahesh Dadoda 05/28/2025

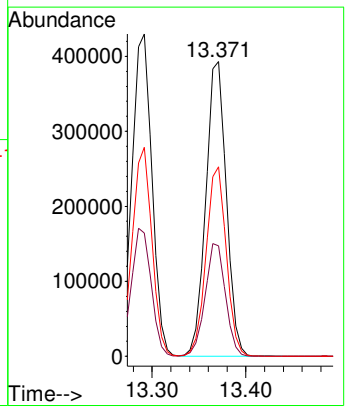


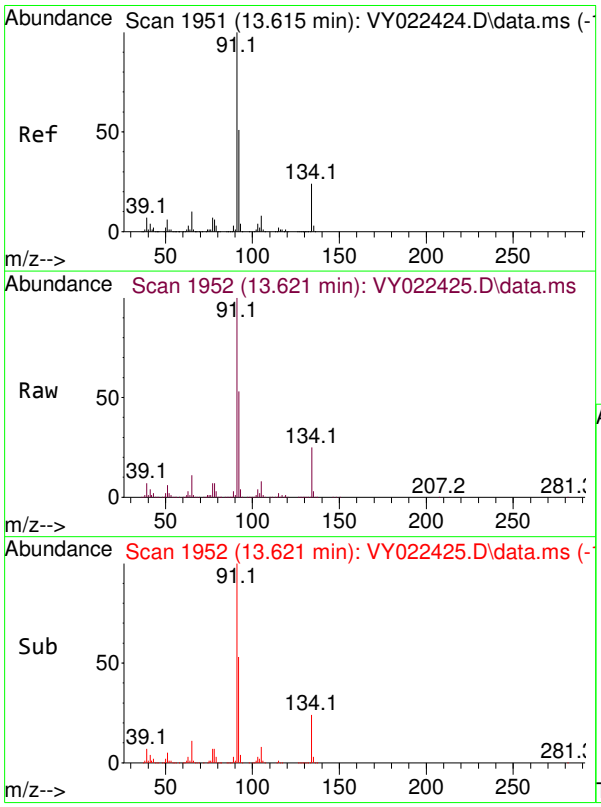


#88
1,4-Dichlorobenzene
Concen: 104.800 ug/l
RT: 13.371 min Scan# 1911
Delta R.T. 0.006 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion:146 Resp: 599095

Ion	Ratio	Lower	Upper
146	100		
111	38.0	18.7	56.1
148	63.4	31.4	94.3

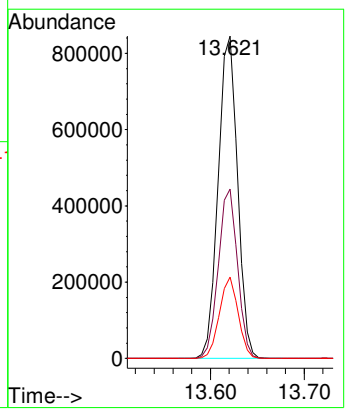




#89
n-Butylbenzene
Concen: 106.731 ug/l
RT: 13.621 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 91 Resp: 120797

Ion	Ratio	Lower	Upper
91	100		
92	52.2	25.9	77.6
134	24.4	12.4	37.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
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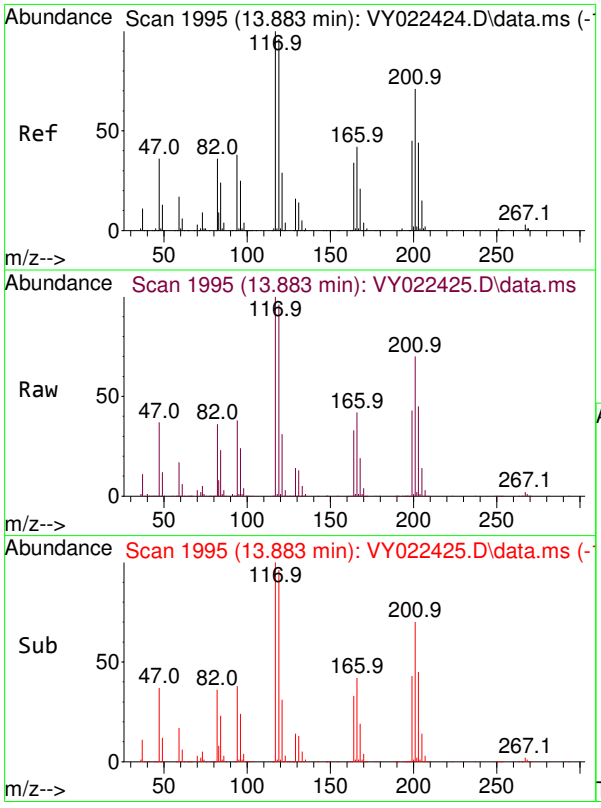
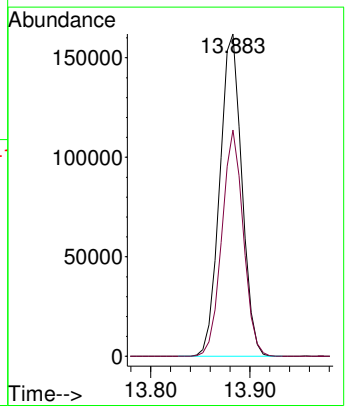
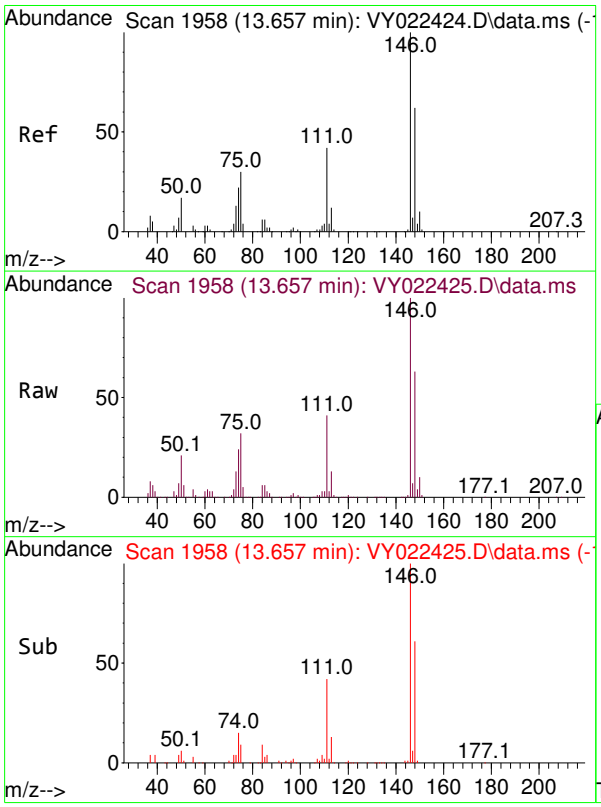


#90
Hexachloroethane
Concen: 104.776 ug/l
RT: 13.883 min Scan# 1995
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion:117 Resp: 251685

Ion	Ratio	Lower	Upper
117	100		
201	68.2	35.0	105.0

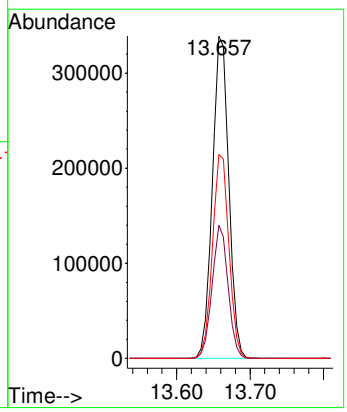




#91
1,2-Dichlorobenzene
Concen: 105.034 ug/l
RT: 13.657 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion:146 Resp: 52449

Ion	Ratio	Lower	Upper
146	100		
111	40.2	20.5	61.6
148	63.5	31.9	95.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
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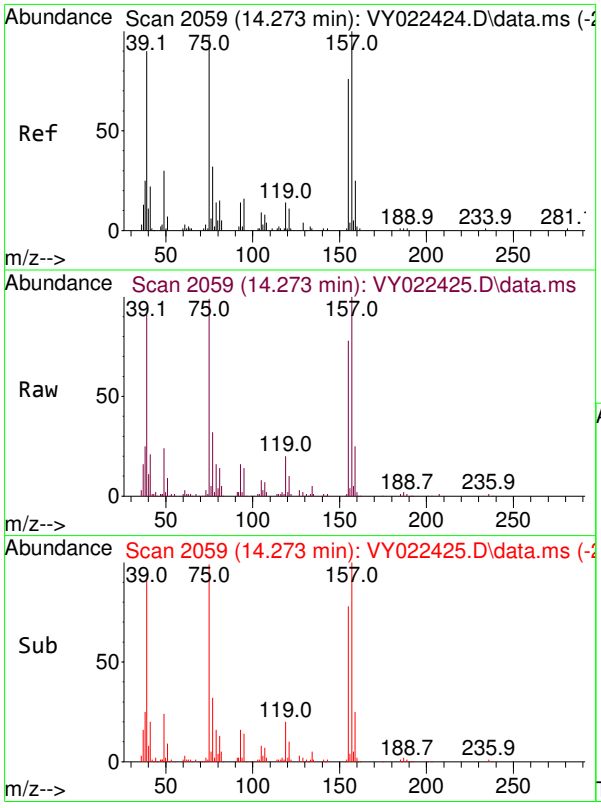
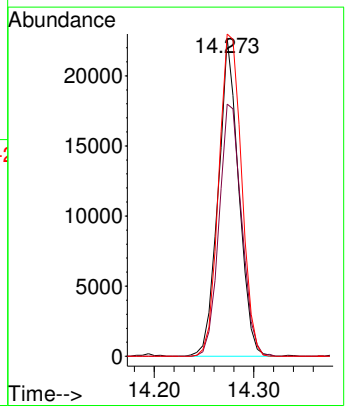
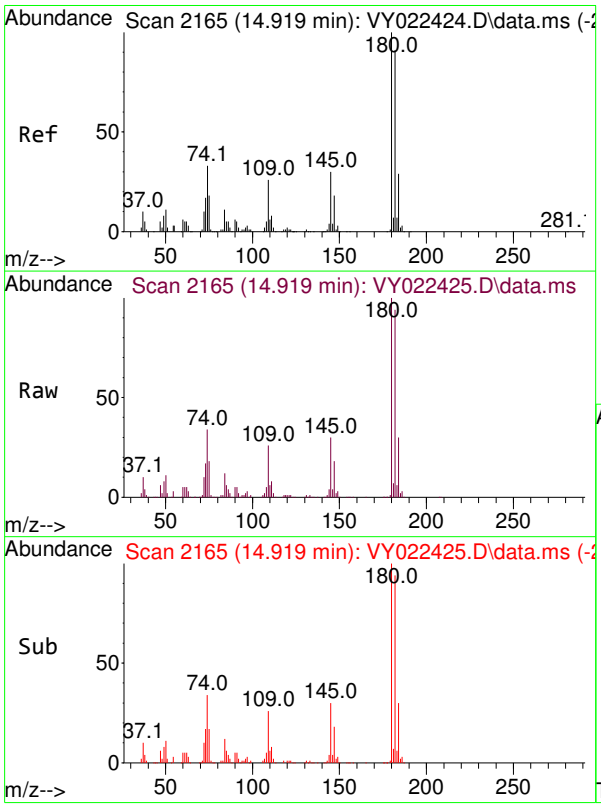


#92
1,2-Dibromo-3-Chloropropane
Concen: 97.318 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 75 Resp: 32714

Ion	Ratio	Lower	Upper
75	100		
155	86.8	42.3	126.8
157	112.3	54.4	163.3

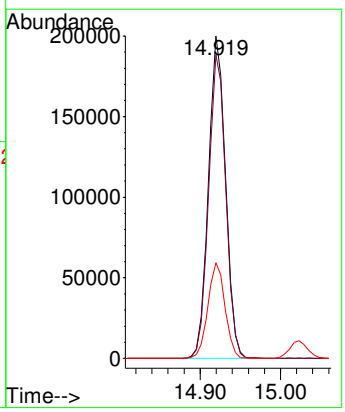




#93
1,2,4-Trichlorobenzene
Concen: 106.731 ug/l
RT: 14.919 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion:180 Resp: 29547

Ion	Ratio	Lower	Upper
180	100		
182	94.4	46.2	138.6
145	29.7	14.2	42.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

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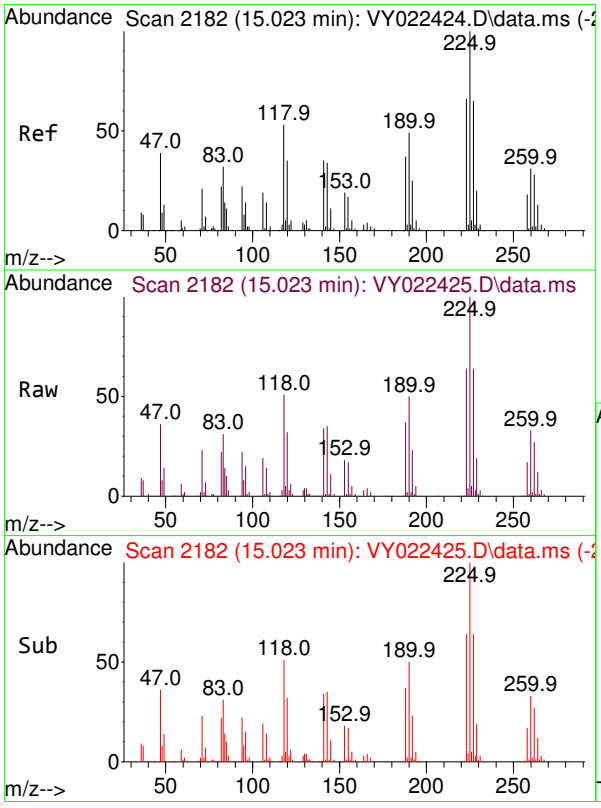
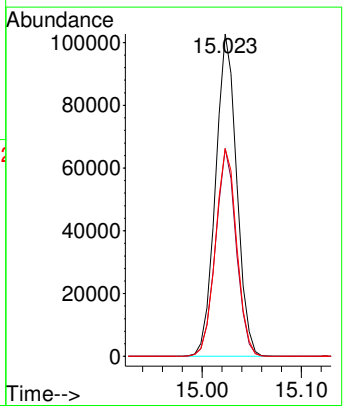
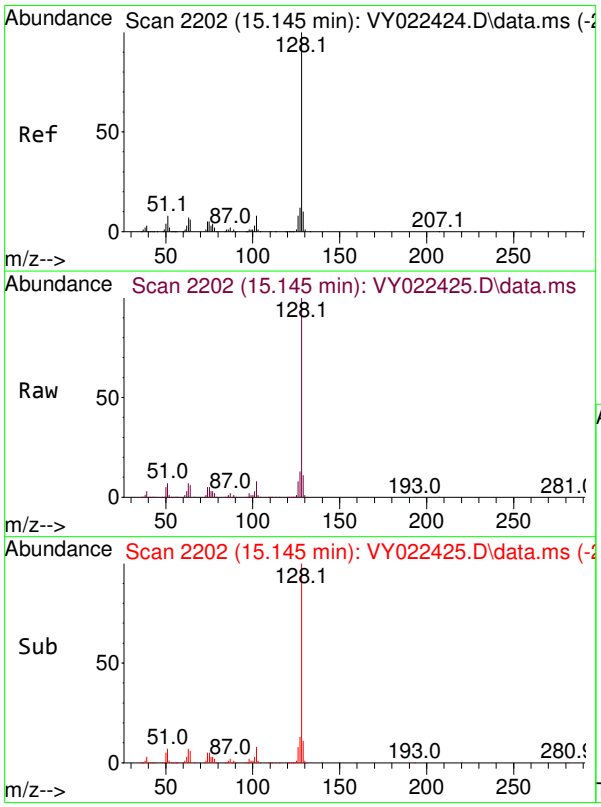


#94
Hexachlorobutadiene
Concen: 105.350 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion:225 Resp: 153056

Ion	Ratio	Lower	Upper
225	100		
223	62.9	32.6	97.7
227	64.7	33.0	99.0

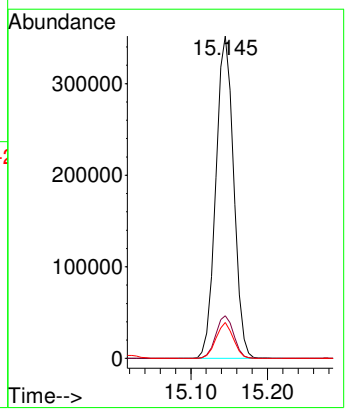




#95
Naphthalene
Concen: 111.021 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion:128 Resp: 56818

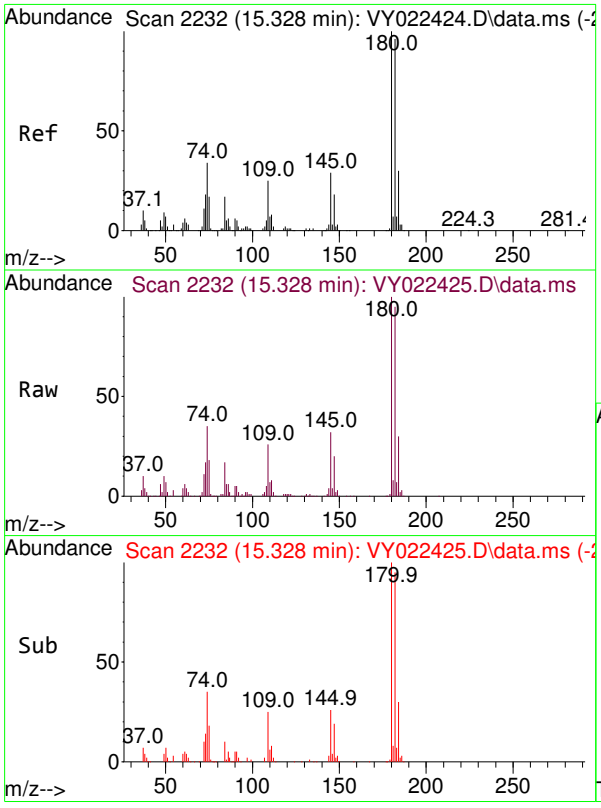
Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.2	15.4
129	10.8	8.5	12.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

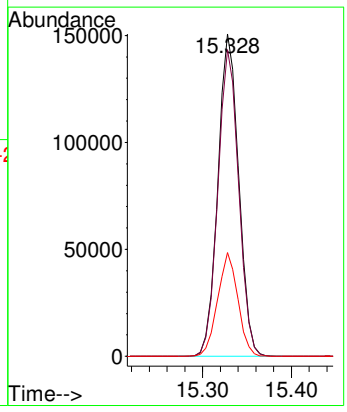
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025



#96
1,2,3-Trichlorobenzene
Concen: 108.638 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion:180 Resp: 246652

Ion	Ratio	Lower	Upper
180	100		
182	95.0	48.1	144.3
145	31.4	14.9	44.5



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022426.D
Acq On : 27 May 2025 10:44
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

Quant Time: May 28 10:05:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 09:30:53 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	261566	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	431909	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	376608	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	182671	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	422539	153.366	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 306.740%#			
35) Dibromofluoromethane	7.640	113	398438	157.523	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 315.040%#			
50) Toluene-d8	10.109	98	1621564	157.262	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 314.520%#			
62) 4-Bromofluorobenzene	12.408	95	487100	156.173	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 312.340%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	336978	135.034	ug/l	98
3) Chloromethane	2.068	50	715868	116.621	ug/l	97
4) Vinyl Chloride	2.208	62	986607	132.303	ug/l	99
5) Bromomethane	2.586	94	1055313	155.728	ug/l	99
6) Chloroethane	2.732	64	711645	146.039	ug/l	100
7) Trichlorofluoromethane	3.050	101	935844	148.741	ug/l	99
8) Diethyl Ether	3.458	74	220632	152.083	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.818	101	401637	145.505	ug/l	99
10) Methyl Iodide	4.007	142	499602	160.432	ug/l	99
11) Tert butyl alcohol	4.878	59	150306	773.955	ug/l	98
12) 1,1-Dichloroethene	3.793	96	404241	147.508	ug/l	98
13) Acrolein	3.653	56	224761	772.427	ug/l	99
14) Allyl chloride	4.385	41	634755	153.977	ug/l	99
15) Acrylonitrile	5.067	53	455189	778.419	ug/l	99
16) Acetone	3.873	43	327320	722.994	ug/l #	85
17) Carbon Disulfide	4.110	76	1295027	148.080	ug/l	100
18) Methyl Acetate	4.385	43	300253	177.047	ug/l	99
19) Methyl tert-butyl Ether	5.122	73	1134189	155.888	ug/l	100
20) Methylene Chloride	4.616	84	426225	133.322	ug/l	95
21) trans-1,2-Dichloroethene	5.116	96	456846	152.698	ug/l	99
22) Diisopropyl ether	6.025	45	1404193	154.338	ug/l	96
23) Vinyl Acetate	5.964	43	4042390	773.807	ug/l	100
24) 1,1-Dichloroethane	5.921	63	828730	154.149	ug/l	99
25) 2-Butanone	6.896	43	603839	800.866	ug/l	99
26) 2,2-Dichloropropane	6.890	77	737854	151.572	ug/l	99
27) cis-1,2-Dichloroethene	6.896	96	537325	155.137	ug/l	99
28) Bromochloromethane	7.250	49	342656	152.635	ug/l	98
29) Tetrahydrofuran	7.268	42	397295	790.090	ug/l	100
30) Chloroform	7.427	83	814685	153.787	ug/l	98
31) Cyclohexane	7.707	56	730410	137.826	ug/l	97
32) 1,1,1-Trichloroethane	7.622	97	737686	153.436	ug/l	100
36) 1,1-Dichloropropene	7.841	75	623501	155.342	ug/l	100
37) Ethyl Acetate	6.988	43	261975	153.581	ug/l	99
38) Carbon Tetrachloride	7.823	117	663867	158.776	ug/l	99
39) Methylcyclohexane	9.109	83	824642	154.561	ug/l	99
40) Benzene	8.085	78	1893003	158.501	ug/l	99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022426.D
Acq On : 27 May 2025 10:44
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 28 10:05:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 09:30:53 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.226	41	171379m	76.337	ug/l		
42) 1,2-Dichloroethane	8.158	62	497991	157.877	ug/l		100
43) Isopropyl Acetate	8.201	43	587308	157.564	ug/l		100
44) Trichloroethene	8.866	130	449921	152.390	ug/l		95
45) 1,2-Dichloropropane	9.146	63	438721	156.346	ug/l		99
46) Dibromomethane	9.231	93	249636	159.252	ug/l		99
47) Bromodichloromethane	9.426	83	639597	158.668	ug/l		98
48) Methyl methacrylate	9.225	41	288821	166.922	ug/l		98
49) 1,4-Dioxane	9.231	88	55890	3228.011	ug/l		98
51) 4-Methyl-2-Pentanone	9.999	43	1565663	851.310	ug/l		100
52) Toluene	10.170	92	1239585	166.170	ug/l		98
53) t-1,3-Dichloropropene	10.396	75	612236	163.055	ug/l		98
54) cis-1,3-Dichloropropene	9.859	75	708367	160.557	ug/l		98
55) 1,1,2-Trichloroethane	10.573	97	314785	158.829	ug/l		99
56) Ethyl methacrylate	10.438	69	478765	168.334	ug/l		98
57) 1,3-Dichloropropane	10.719	76	549047	157.203	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.713	63	1202134	848.088	ug/l		100
59) 2-Hexanone	10.762	43	1032146	856.364	ug/l		99
60) Dibromochloromethane	10.914	129	415432	164.093	ug/l		99
61) 1,2-Dibromoethane	11.018	107	292010	161.091	ug/l		98
64) Tetrachloroethene	10.652	164	466490	145.442	ug/l		99
65) Chlorobenzene	11.444	112	1273300	158.560	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.518	131	454374	166.998	ug/l		98
67) Ethyl Benzene	11.518	91	2468130	165.526	ug/l		99
68) m/p-Xylenes	11.633	106	1900132	336.111	ug/l		99
69) o-Xylene	11.956	106	894394	168.335	ug/l		99
70) Styrene	11.969	104	1535004	173.504	ug/l		99
71) Bromoform	12.133	173	237301	166.508	ug/l	#	100
73) Isopropylbenzene	12.255	105	2238981	155.735	ug/l		100
74) N-amyl acetate	12.072	43	561846	159.709	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.505	83	357601	157.873	ug/l		100
76) 1,2,3-Trichloropropane	12.560	75	280272m	93.124	ug/l		
77) Bromobenzene	12.530	156	484799	156.697	ug/l		98
78) n-propylbenzene	12.597	91	2681276	155.406	ug/l		100
79) 2-Chlorotoluene	12.682	91	1451439	155.407	ug/l		99
80) 1,3,5-Trimethylbenzene	12.737	105	1785622	158.958	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.304	75	129469	160.016	ug/l		96
82) 4-Chlorotoluene	12.779	91	1513977	157.395	ug/l		100
83) tert-Butylbenzene	12.999	119	1594195	157.076	ug/l		100
84) 1,2,4-Trimethylbenzene	13.042	105	1831722	162.038	ug/l		100
85) sec-Butylbenzene	13.176	105	2373216	157.674	ug/l		99
86) p-Isopropyltoluene	13.292	119	2084441	165.843	ug/l		99
87) 1,3-Dichlorobenzene	13.292	146	1027086	164.991	ug/l		100
88) 1,4-Dichlorobenzene	13.371	146	924346	155.292	ug/l		99
89) n-Butylbenzene	13.621	91	1889271	160.316	ug/l		99
90) Hexachloroethane	13.883	117	386833	154.660	ug/l		99
91) 1,2-Dichlorobenzene	13.657	146	812262	156.218	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.273	75	52777	150.784	ug/l		99
93) 1,2,4-Trichlorobenzene	14.919	180	468879	162.662	ug/l		98
94) Hexachlorobutadiene	15.023	225	236480	156.325	ug/l		97
95) Naphthalene	15.145	128	915763	171.849	ug/l		99
96) 1,2,3-Trichlorobenzene	15.328	180	395519	167.307	ug/l		98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022426.D
Acq On : 27 May 2025 10:44
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

Quant Time: May 28 10:05:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 09:30:53 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

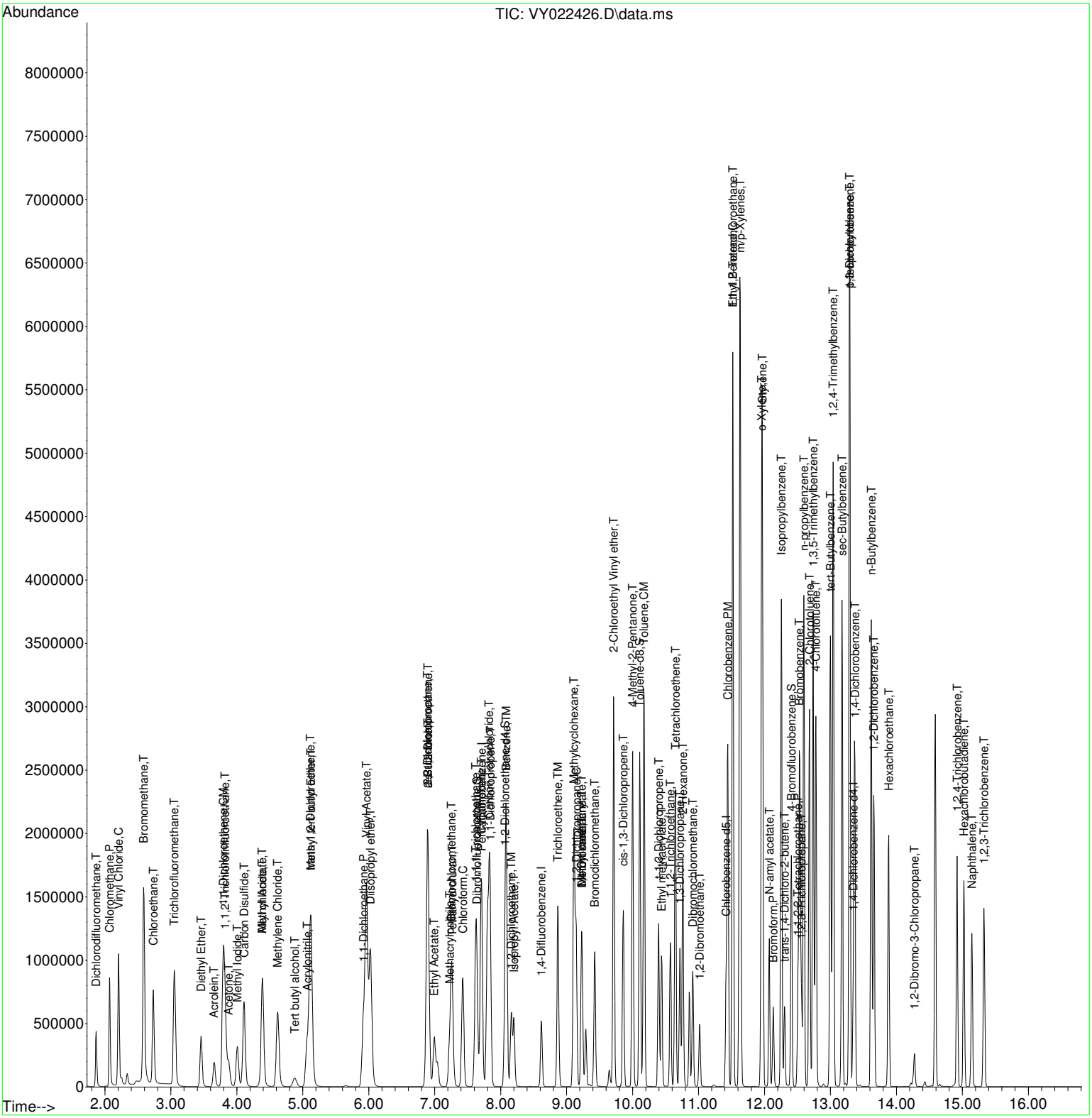
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022426.D
Acq On : 27 May 2025 10:44
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

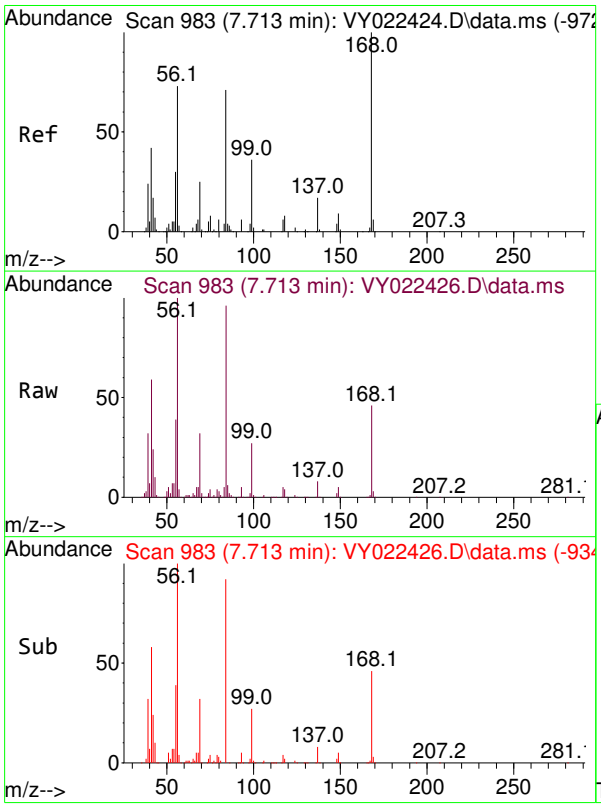
Quant Time: May 28 10:05:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 09:30:53 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

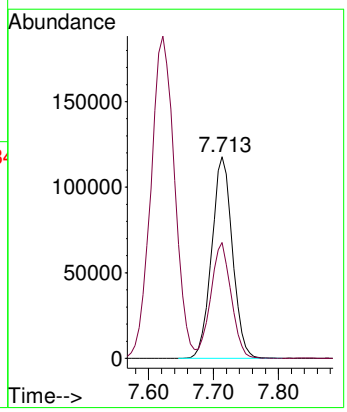
Tgt Ion:168 Resp: 26156

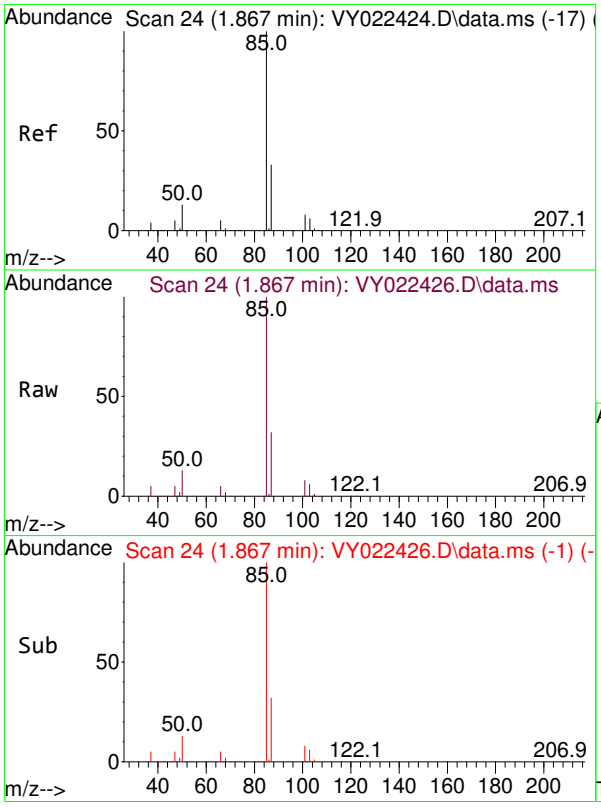
Ion	Ratio	Lower	Upper
168	100		
99	57.4	44.7	67.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

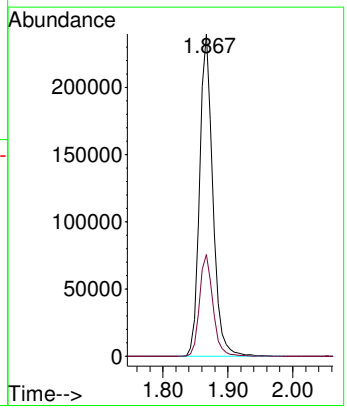


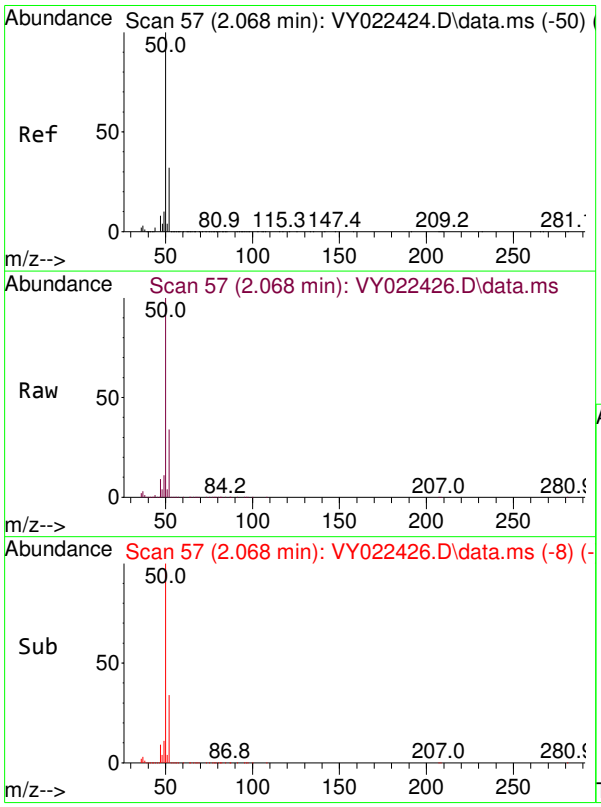


#2
Dichlorodifluoromethane
Concen: 135.034 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 85 Resp: 336978

Ion	Ratio	Lower	Upper
85	100		
87	31.6	16.4	49.2





#3
Chloromethane
Concen: 116.621 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

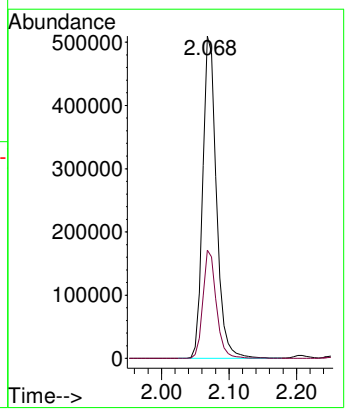
Tgt Ion: 50 Resp: 71586

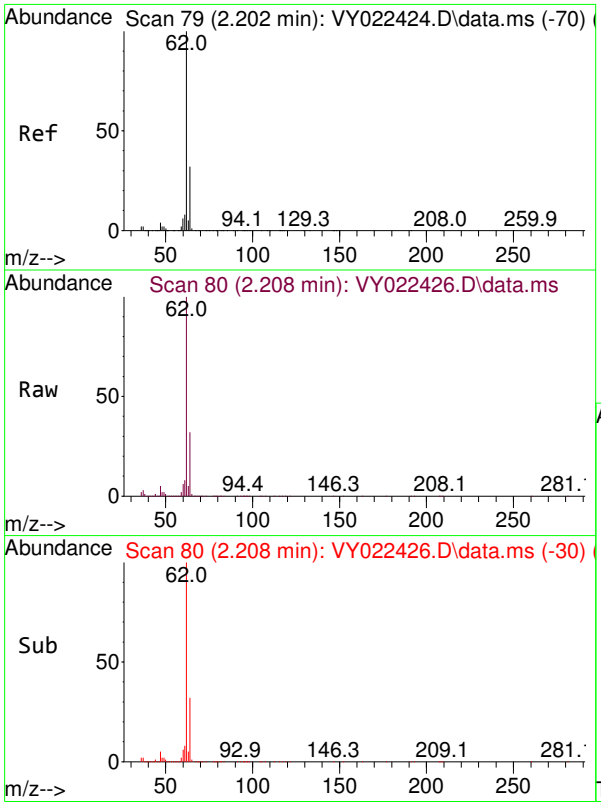
Ion	Ratio	Lower	Upper
50	100		
52	33.6	25.5	38.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

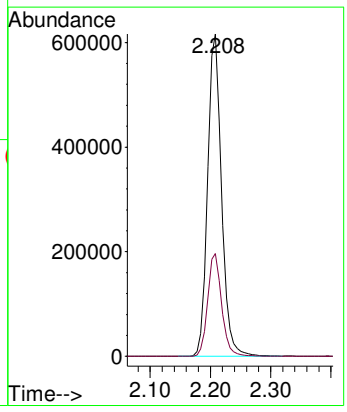


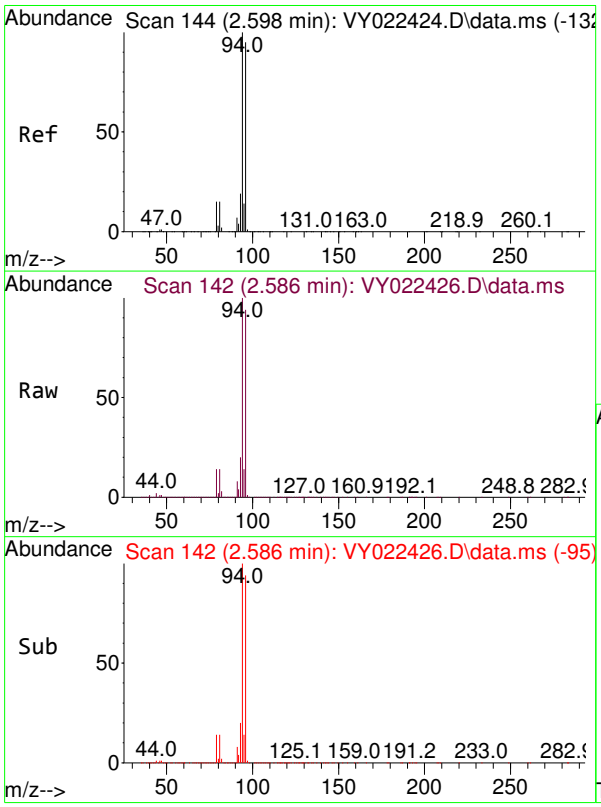


#4
Vinyl Chloride
Concen: 132.303 ug/l
RT: 2.208 min Scan# 80
Delta R.T. 0.006 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 62 Resp: 986607

Ion	Ratio	Lower	Upper
62	100		
64	31.9	26.0	39.0





#5
Bromomethane
Concen: 155.728 ug/l
RT: 2.586 min Scan# 1
Delta R.T. -0.012 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

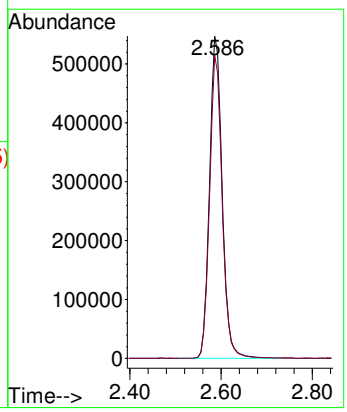
Tgt Ion: 94 Resp: 105531

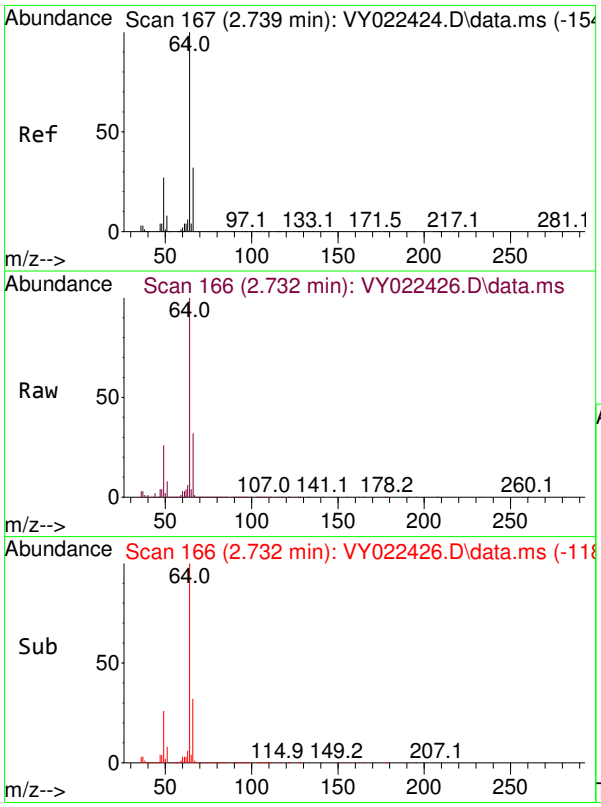
Ion	Ratio	Lower	Upper
94	100		
96	93.8	76.0	114.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

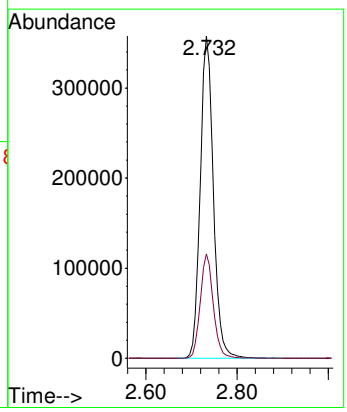


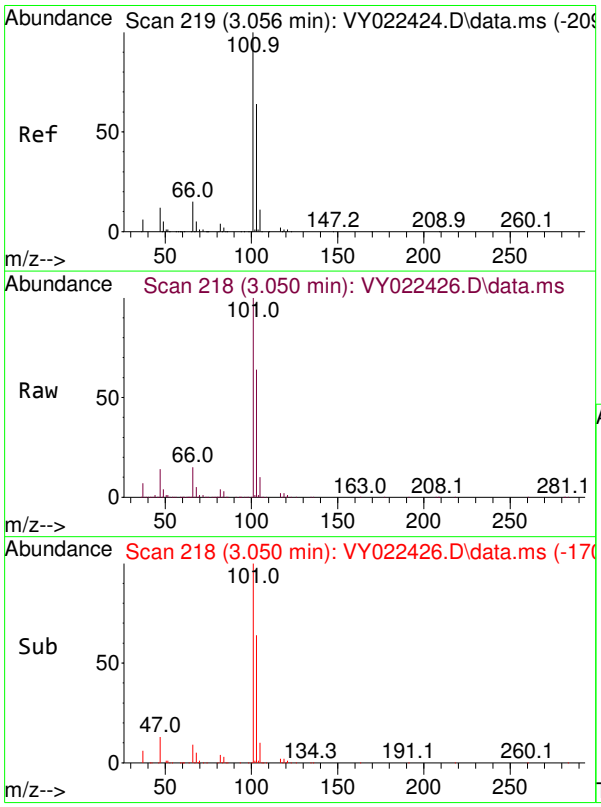


#6
Chloroethane
Concen: 146.039 ug/l
RT: 2.732 min Scan# 166
Delta R.T. -0.006 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 64 Resp: 711645

Ion	Ratio	Lower	Upper
64	100		
66	32.4	25.9	38.9

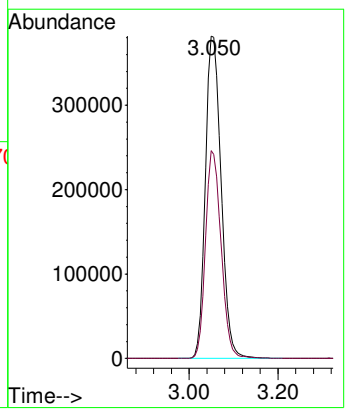




#7
Trichlorofluoromethane
Concen: 148.741 ug/l
RT: 3.050 min Scan# 2
Delta R.T. -0.006 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion:101 Resp: 93584

Ion	Ratio	Lower	Upper
101	100		
103	64.5	50.9	76.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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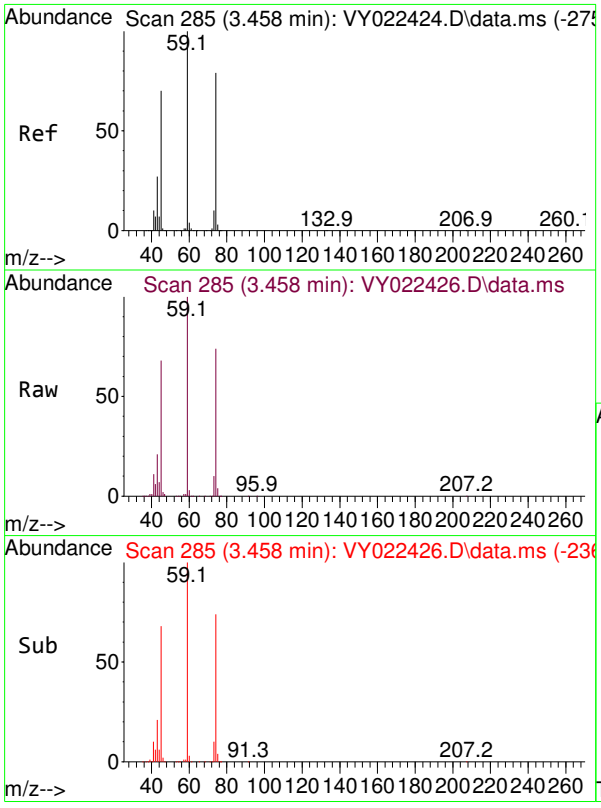
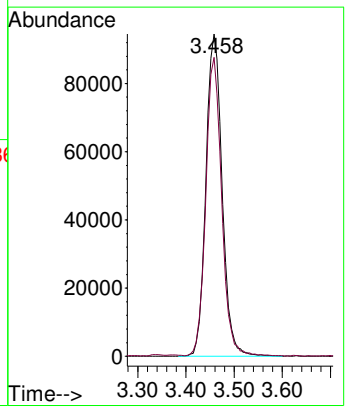
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

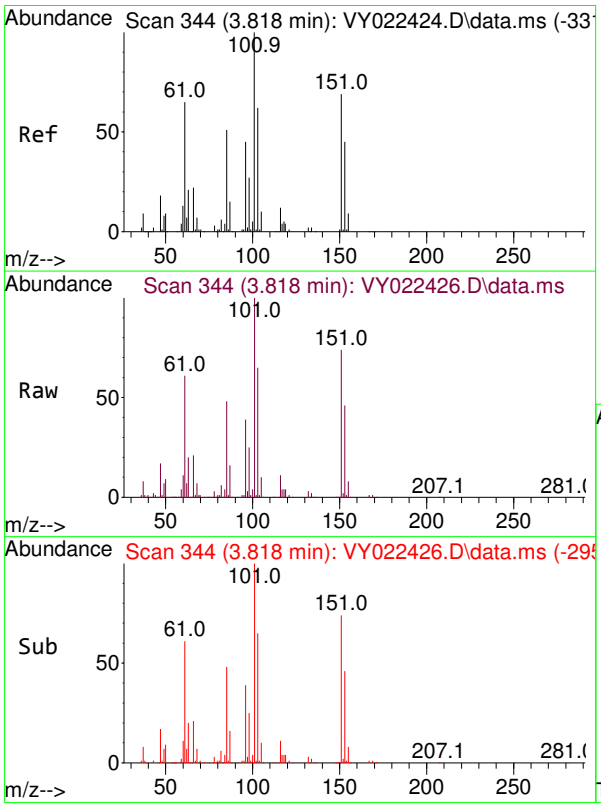


#8
Diethyl Ether
Concen: 152.083 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 74 Resp: 220632

Ion	Ratio	Lower	Upper
74	100		
45	90.7	44.9	134.5





#9
1,1,2-Trichlorotrifluoroethane
Concen: 145.505 ug/l
RT: 3.818 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion:101 Resp: 40163

Ion	Ratio	Lower	Upper
101	100		
85	48.4	39.2	58.8
151	74.2	58.8	88.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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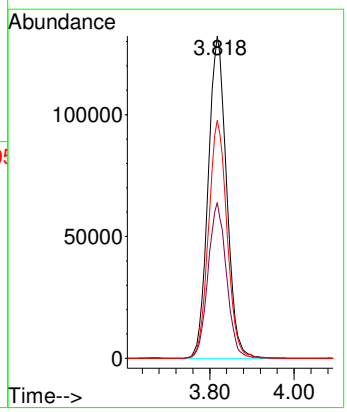
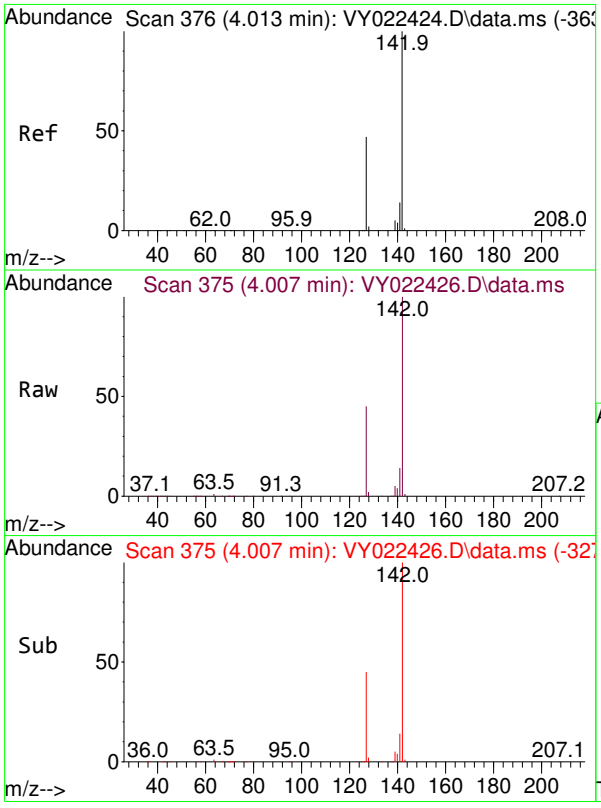
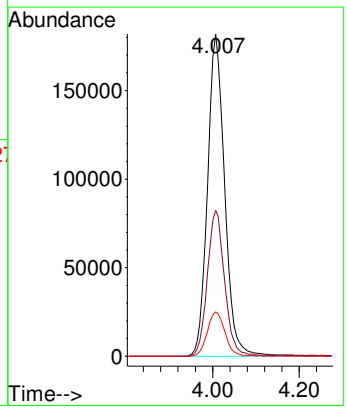


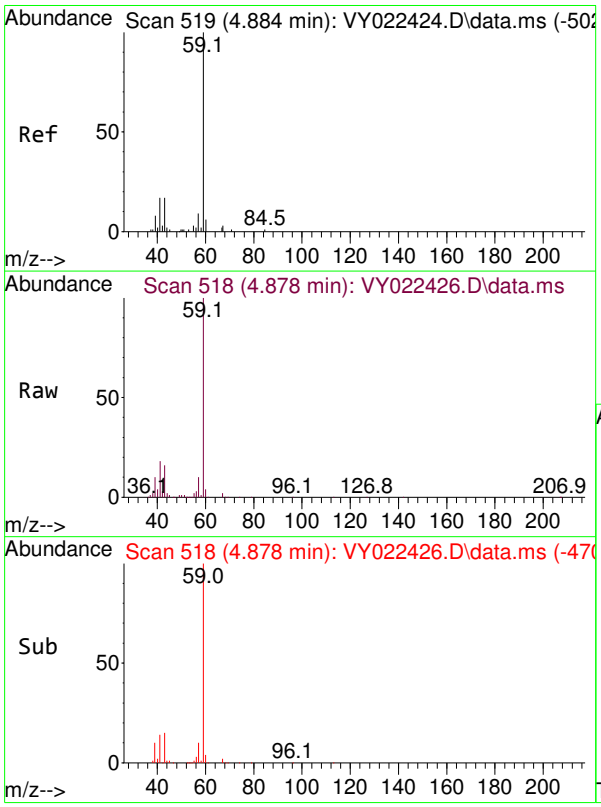


#10
Methyl Iodide
Concen: 160.432 ug/l
RT: 4.007 min Scan# 375
Delta R.T. -0.006 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion:142 Resp: 499602

Ion	Ratio	Lower	Upper
142	100		
127	45.7	36.2	54.4
141	14.2	11.6	17.4





#11
Tert butyl alcohol
Concen: 773.955 ug/l
RT: 4.878 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 59 Resp: 15030

Ion	Ratio	Lower	Upper
59	100		
57	10.6	9.1	13.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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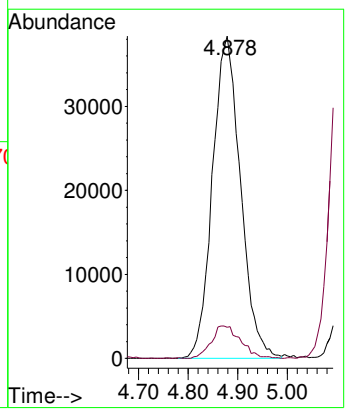
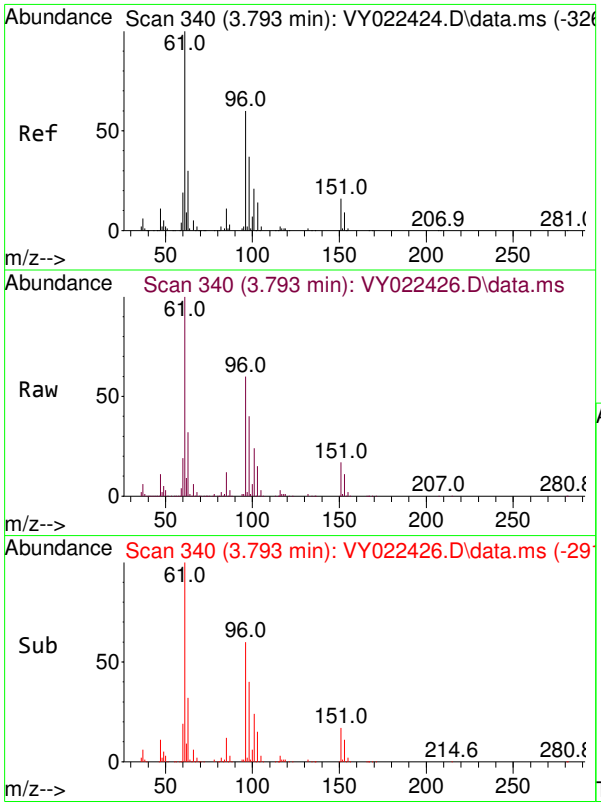
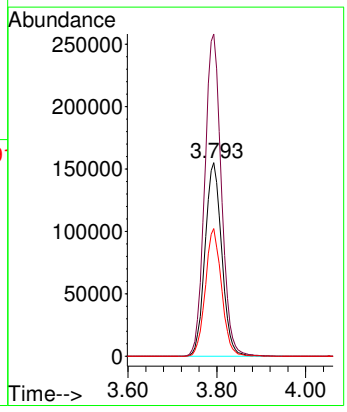


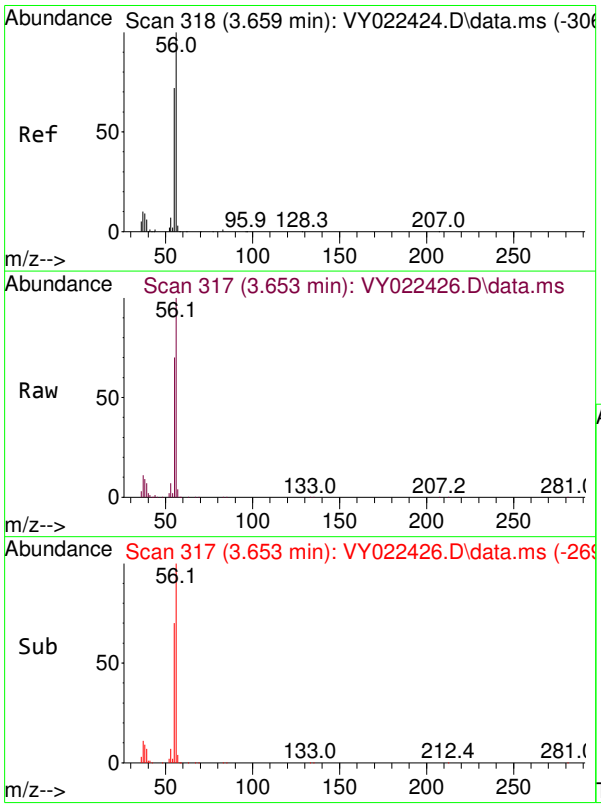


#12
1,1-Dichloroethene
Concen: 147.508 ug/l
RT: 3.793 min Scan# 340
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 96 Resp: 404241

Ion	Ratio	Lower	Upper
96	100		
61	166.5	134.1	201.1
98	66.0	50.2	75.2





#13
Acrolein
Concen: 772.427 ug/l
RT: 3.653 min Scan# 3
Delta R.T. -0.006 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 56 Resp: 22476

Ion	Ratio	Lower	Upper
56	100		
55	70.1	56.5	84.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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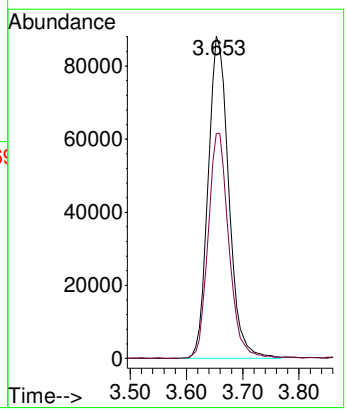
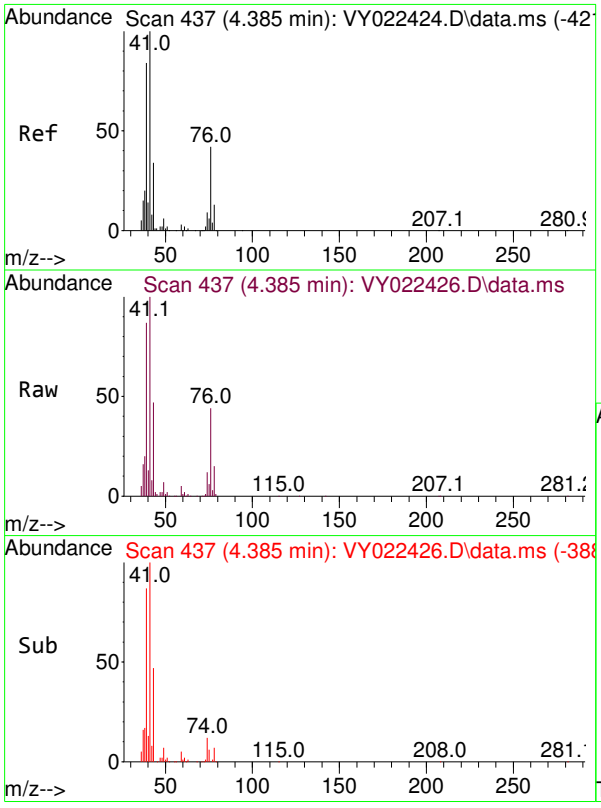
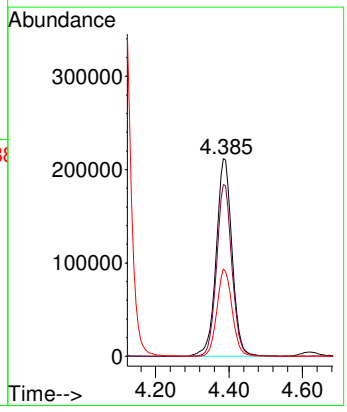


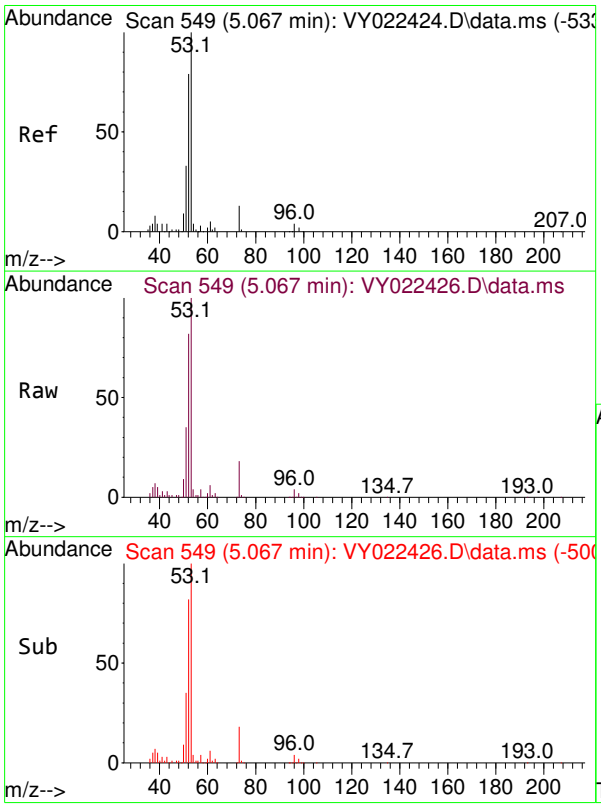


#14
Allyl chloride
Concen: 153.977 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 41 Resp: 634755

Ion	Ratio	Lower	Upper
41	100		
39	84.2	66.6	100.0
76	42.2	33.7	50.5





#15
Acrylonitrile
Concen: 778.419 ug/l
RT: 5.067 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 53 Resp: 45518

Ion	Ratio	Lower	Upper
53	100		
52	82.5	65.1	97.7
51	38.0	30.0	45.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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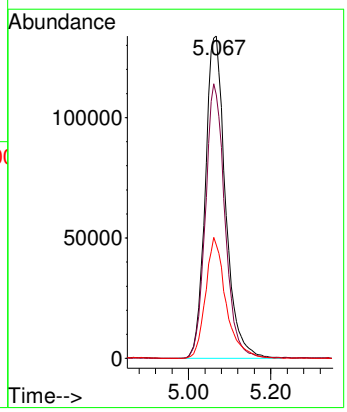
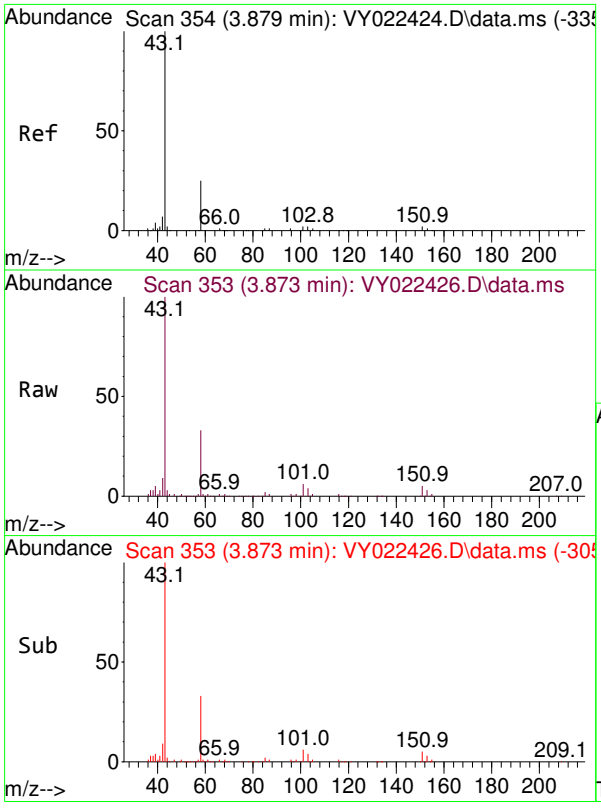
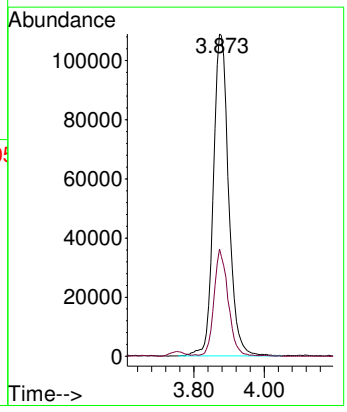


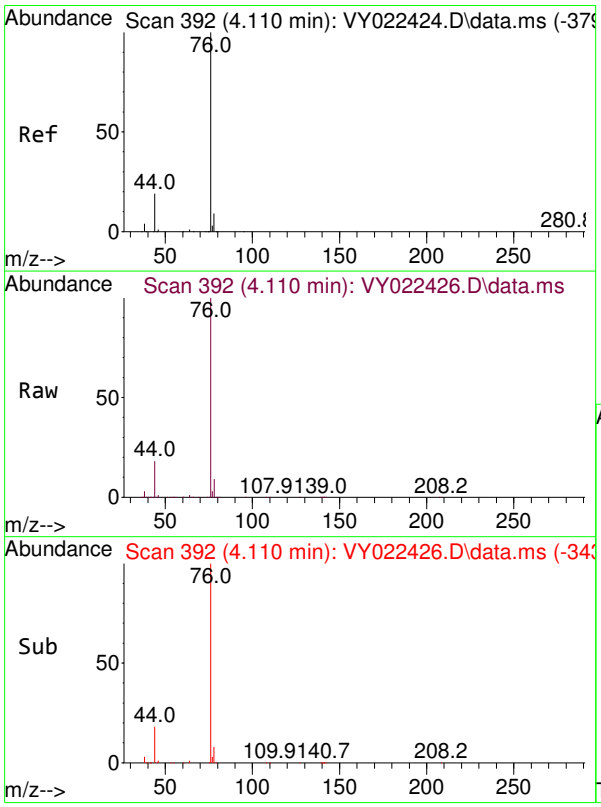


#16
Acetone
Concen: 722.994 ug/l
RT: 3.873 min Scan# 353
Delta R.T. -0.006 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 43 Resp: 327320

Ion	Ratio	Lower	Upper
43	100		
58	33.3	20.6	30.8#





#17
Carbon Disulfide
Concen: 148.080 ug/l
RT: 4.110 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 76 Resp: 129502

Ion	Ratio	Lower	Upper
76	100		
78	9.0	7.2	10.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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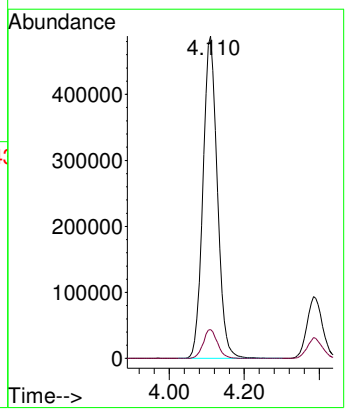
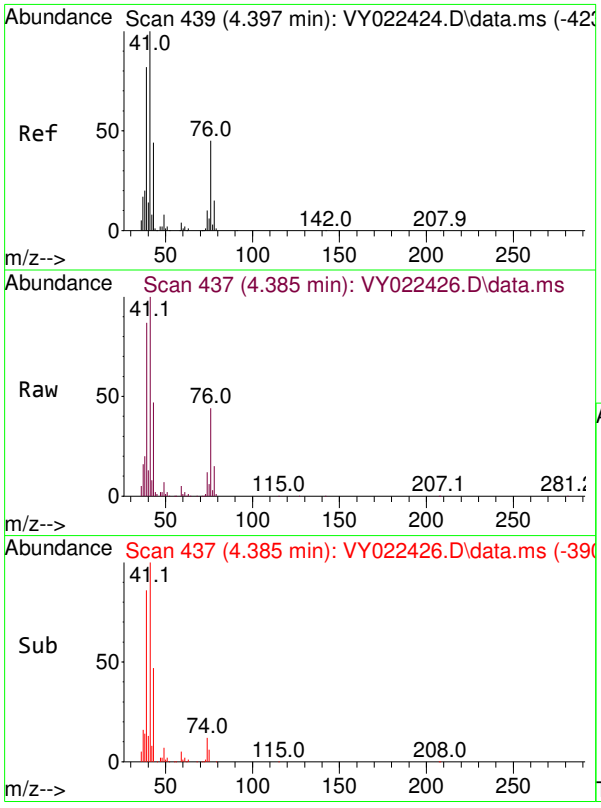
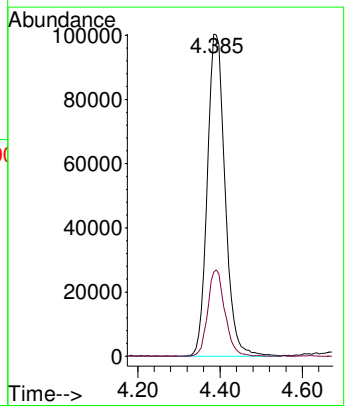


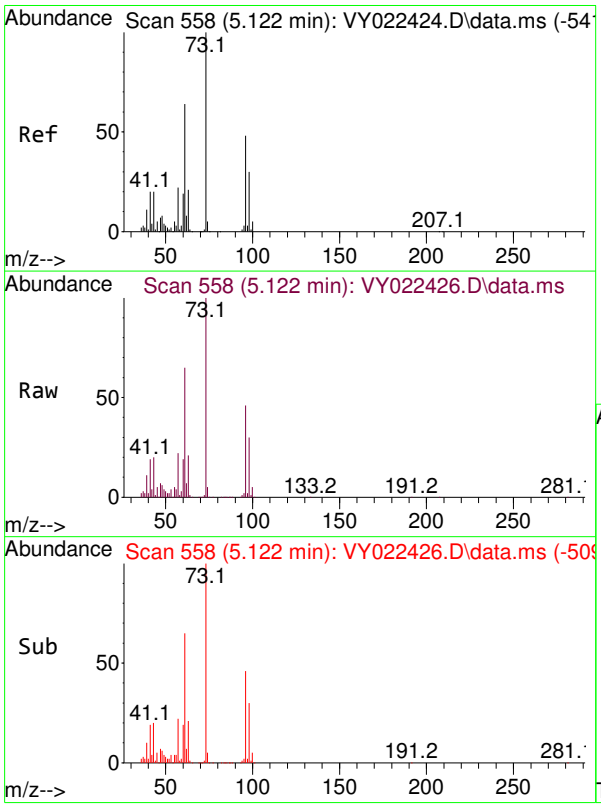


#18
Methyl Acetate
Concen: 177.047 ug/l
RT: 4.385 min Scan# 437
Delta R.T. -0.012 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 43 Resp: 300253

Ion	Ratio	Lower	Upper
43	100		
74	26.1	21.2	31.8





#19
Methyl tert-butyl Ether
Concen: 155.888 ug/l
RT: 5.122 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 73 Resp: 113418

Ion	Ratio	Lower	Upper
73	100		
57	21.9	17.7	26.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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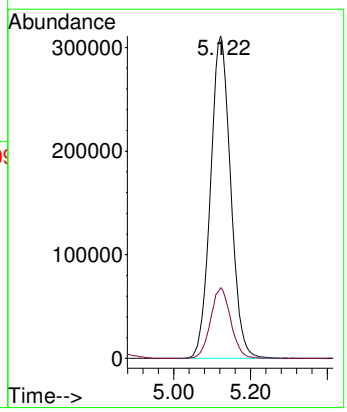
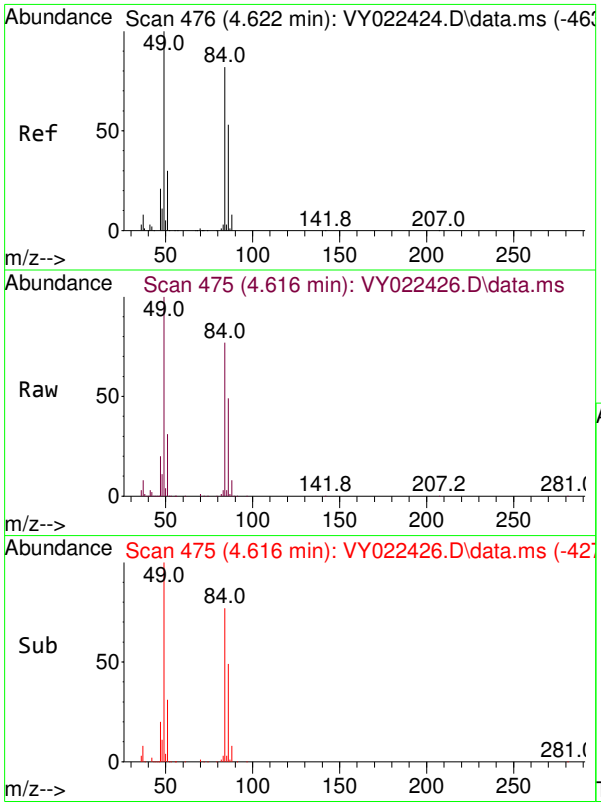
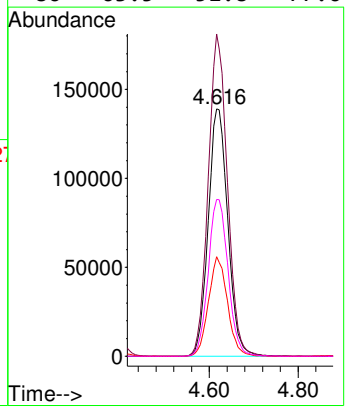


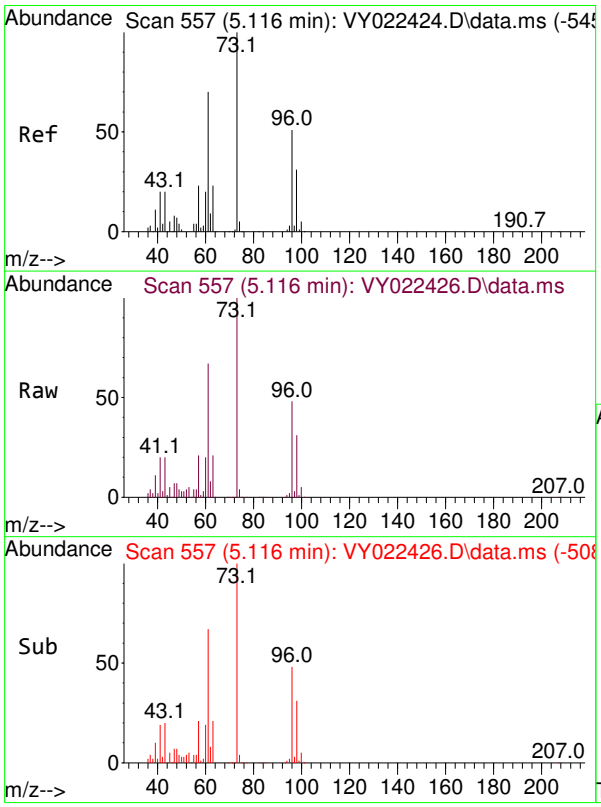


#20
Methylene Chloride
Concen: 133.322 ug/l
RT: 4.616 min Scan# 475
Delta R.T. -0.006 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 84 Resp: 426225

Ion	Ratio	Lower	Upper
84	100		
49	130.3	97.8	146.8
51	40.3	29.5	44.3
86	63.5	51.8	77.6

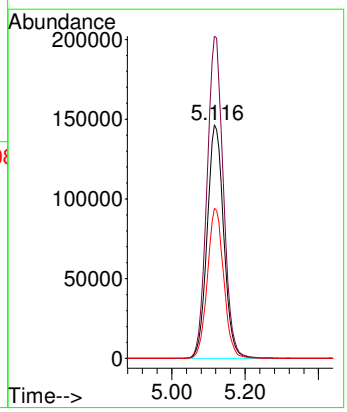




#21
trans-1,2-Dichloroethene
Concen: 152.698 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 96 Resp: 45684

Ion	Ratio	Lower	Upper
96	100		
61	137.9	110.4	165.6
98	64.3	48.6	73.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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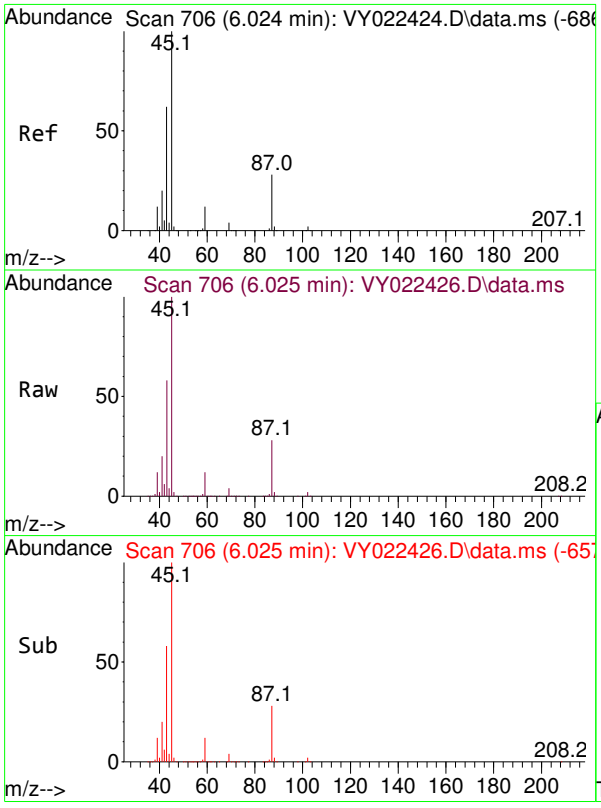
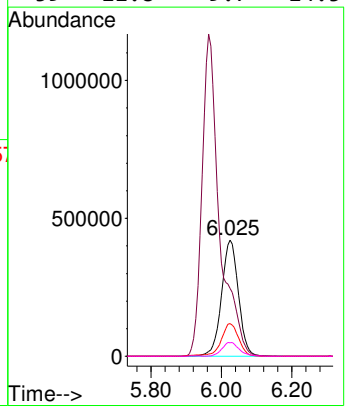
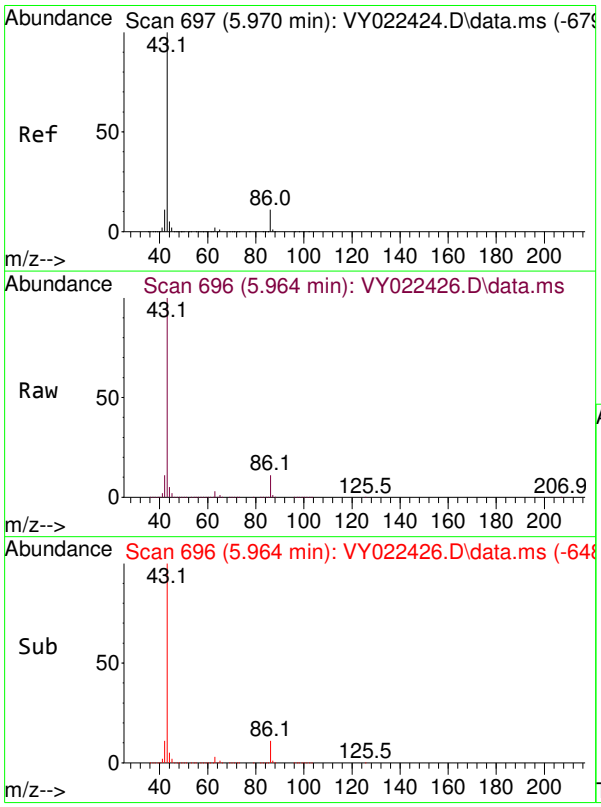


#22
Diisopropyl ether
Concen: 154.338 ug/l
RT: 6.025 min Scan# 706
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 45 Resp: 1404193

Ion	Ratio	Lower	Upper
45	100		
43	58.3	49.8	74.8
87	28.2	23.0	34.6
59	11.8	9.7	14.5





#23
Vinyl Acetate
Concen: 773.807 ug/l
RT: 5.964 min Scan# 6
Delta R.T. -0.006 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 43 Resp: 404239

Ion	Ratio	Lower	Upper
43	100		
86	10.8	8.8	13.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
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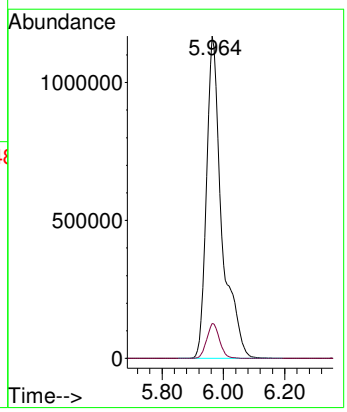
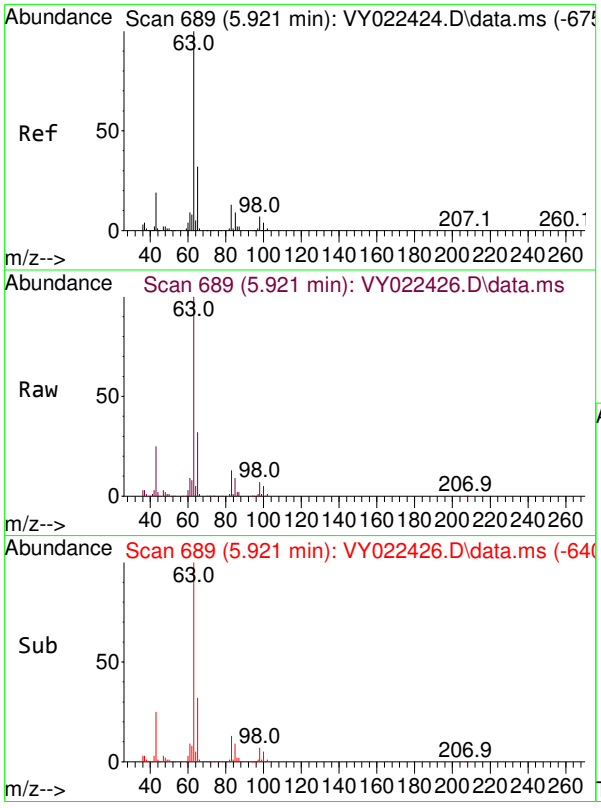
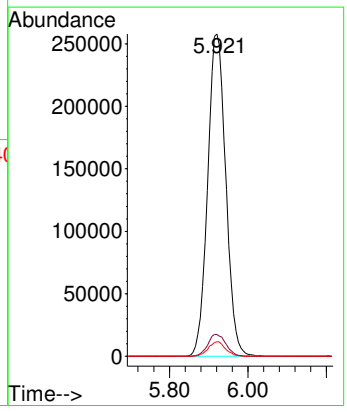


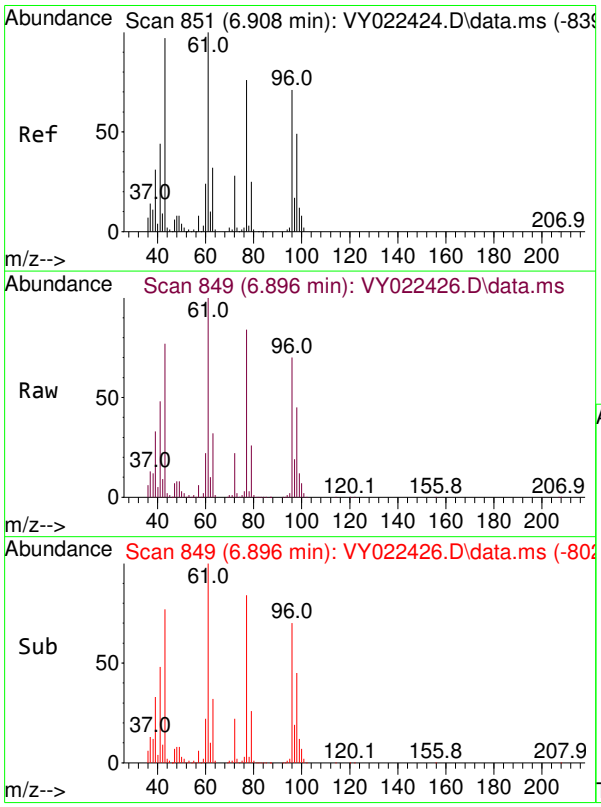


#24
1,1-Dichloroethane
Concen: 154.149 ug/l
RT: 5.921 min Scan# 689
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 63 Resp: 828730

Ion	Ratio	Lower	Upper
63	100		
98	6.7	3.5	10.5
100	4.5	2.1	6.5

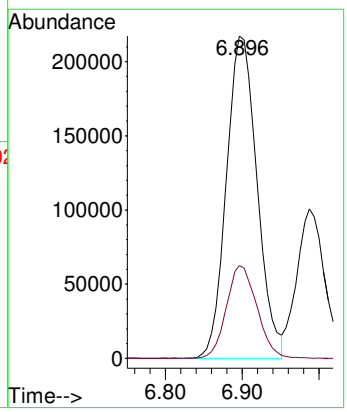




#25
2-Butanone
Concen: 800.866 ug/l
RT: 6.896 min Scan# 8
Delta R.T. -0.012 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 43 Resp: 60383

Ion	Ratio	Lower	Upper
43	100		
72	28.9	22.8	34.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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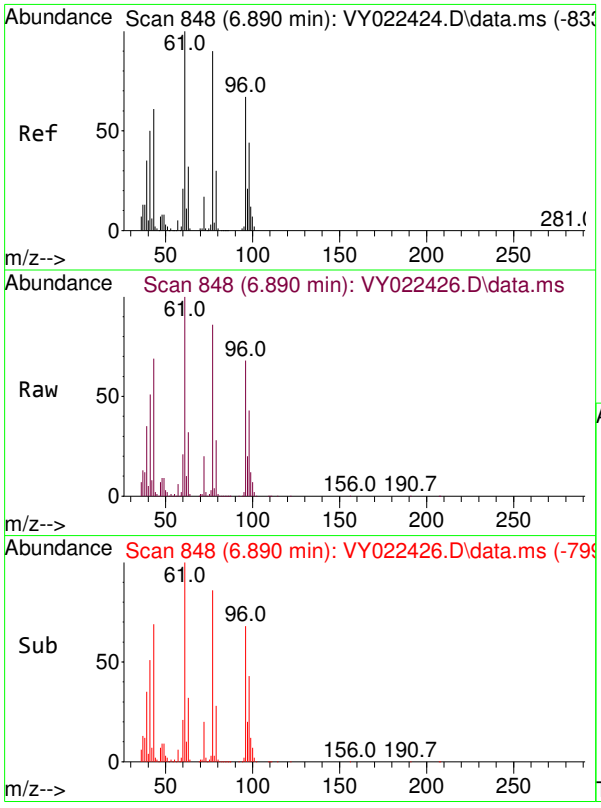
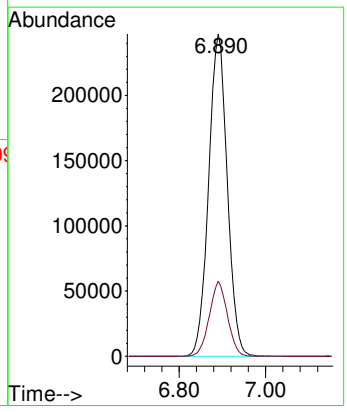
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

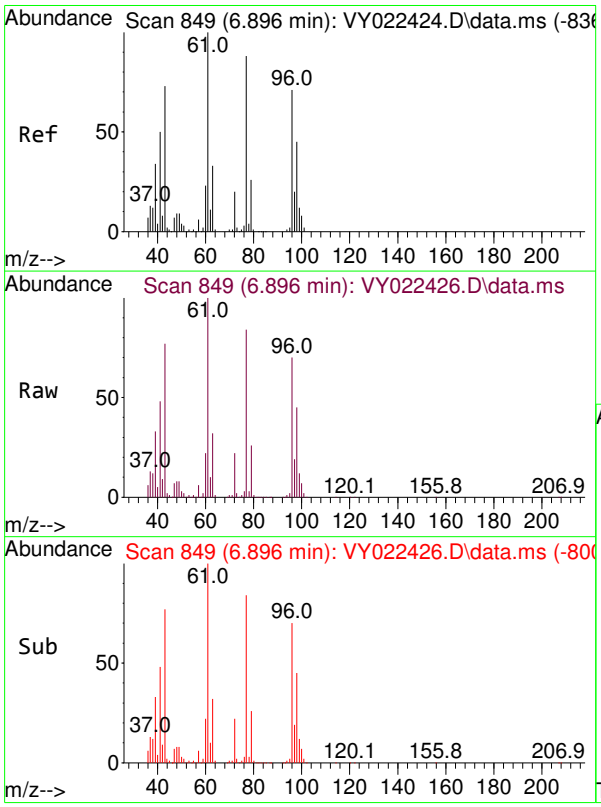


#26
2,2-Dichloropropane
Concen: 151.572 ug/l
RT: 6.890 min Scan# 848
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 77 Resp: 737854

Ion	Ratio	Lower	Upper
77	100		
97	22.6	11.6	34.7

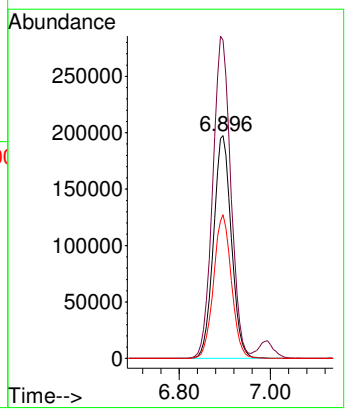




#27
cis-1,2-Dichloroethene
Concen: 155.137 ug/l
RT: 6.896 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 96 Resp: 53732

Ion	Ratio	Lower	Upper
96	100		
61	146.3	0.0	292.0
98	64.2	0.0	131.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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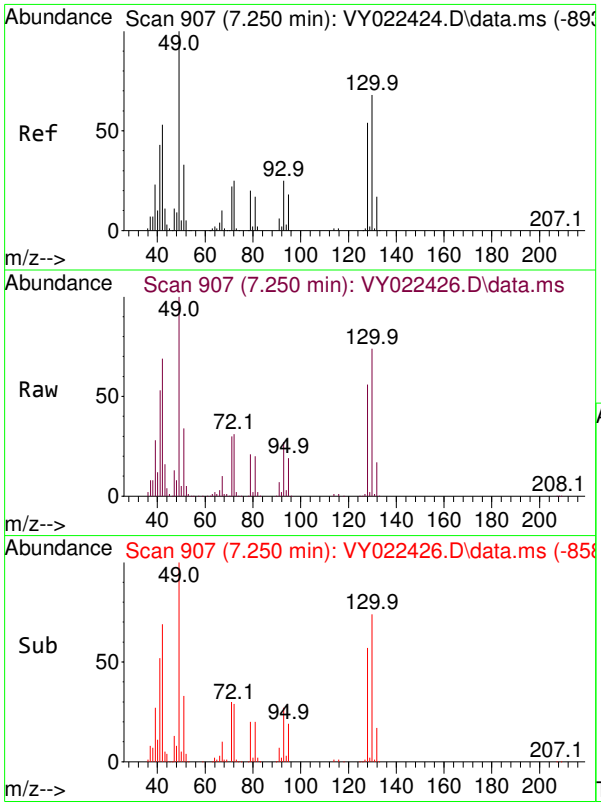
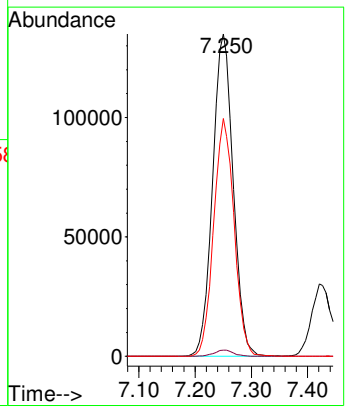
Supervised By :Mahesh Dadoda 05/28/2025

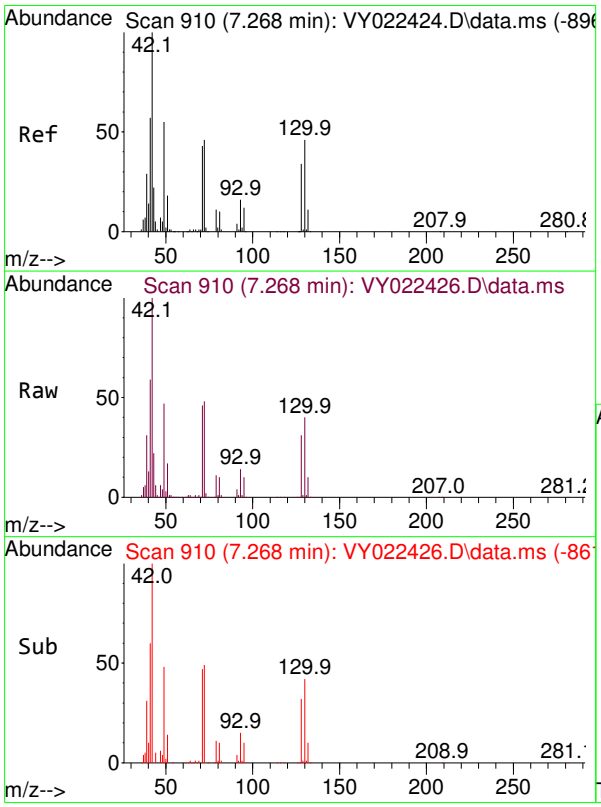


#28
Bromochloromethane
Concen: 152.635 ug/l
RT: 7.250 min Scan# 907
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 49 Resp: 342656

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	4.0
130	73.0	56.9	85.3





#29
Tetrahydrofuran
Concen: 790.090 ug/l
RT: 7.268 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 42 Resp: 39729

Ion	Ratio	Lower	Upper
42	100		
72	46.7	37.7	56.5
71	43.4	34.7	52.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
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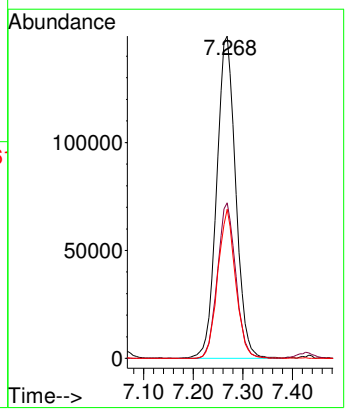
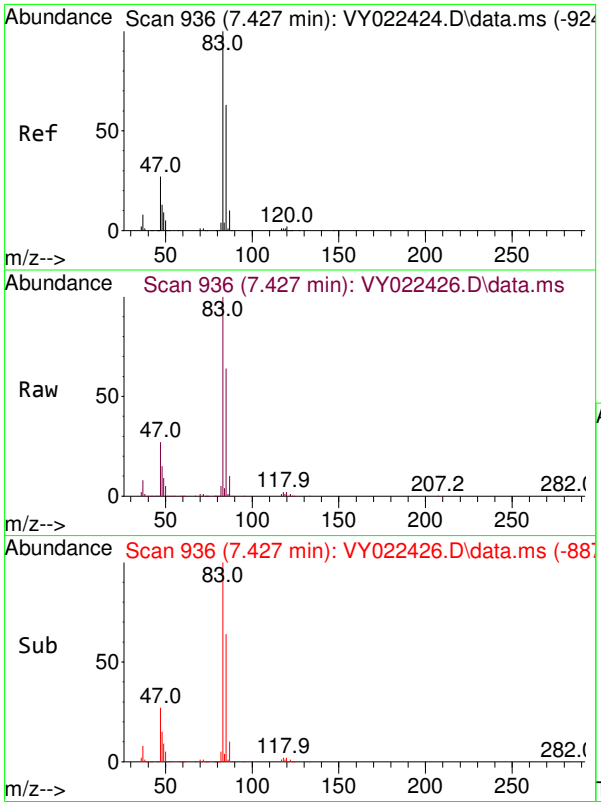
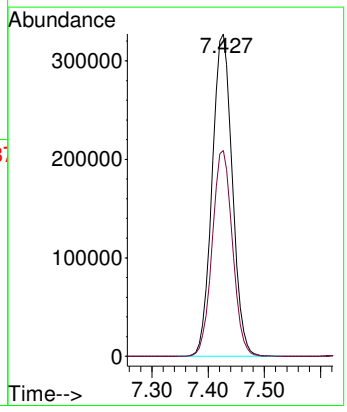


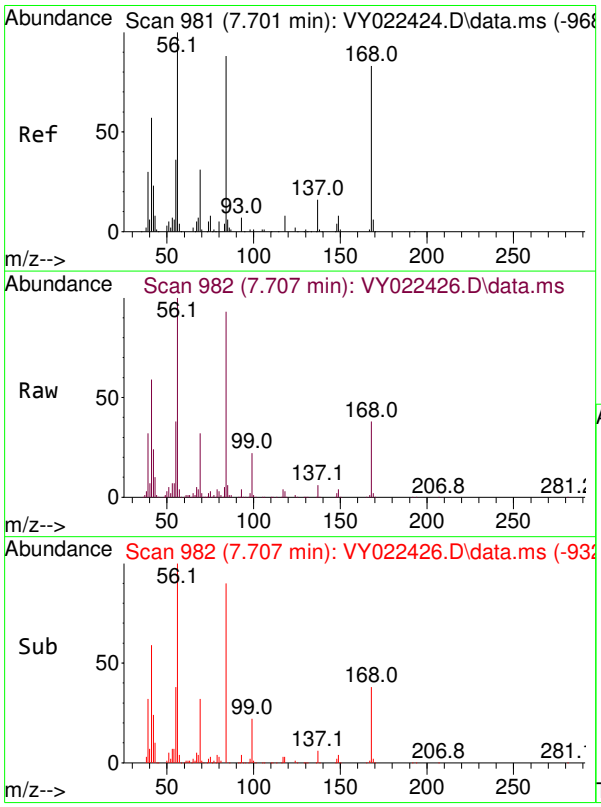


#30
Chloroform
Concen: 153.787 ug/l
RT: 7.427 min Scan# 936
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 83 Resp: 814685

Ion	Ratio	Lower	Upper
83	100		
85	63.9	50.1	75.1





#31
Cyclohexane
Concen: 137.826 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 56 Resp: 73041

Ion	Ratio	Lower	Upper
56	100		
69	32.3	24.6	36.8
84	90.9	70.4	105.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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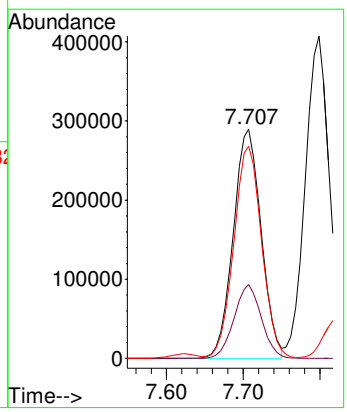
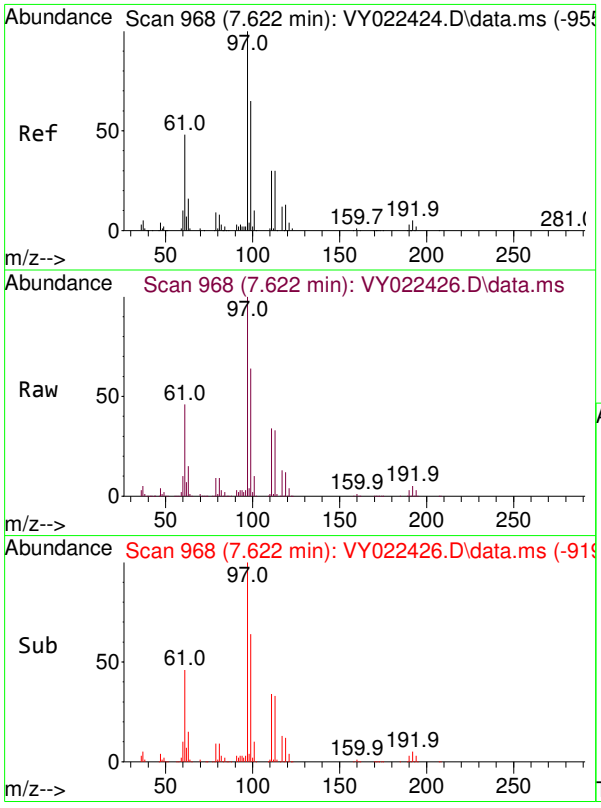
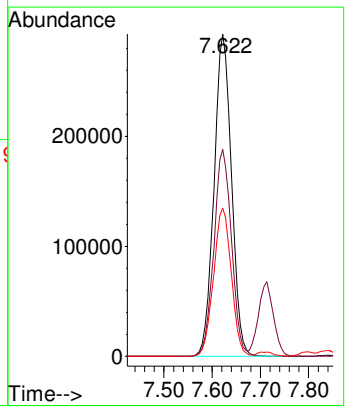


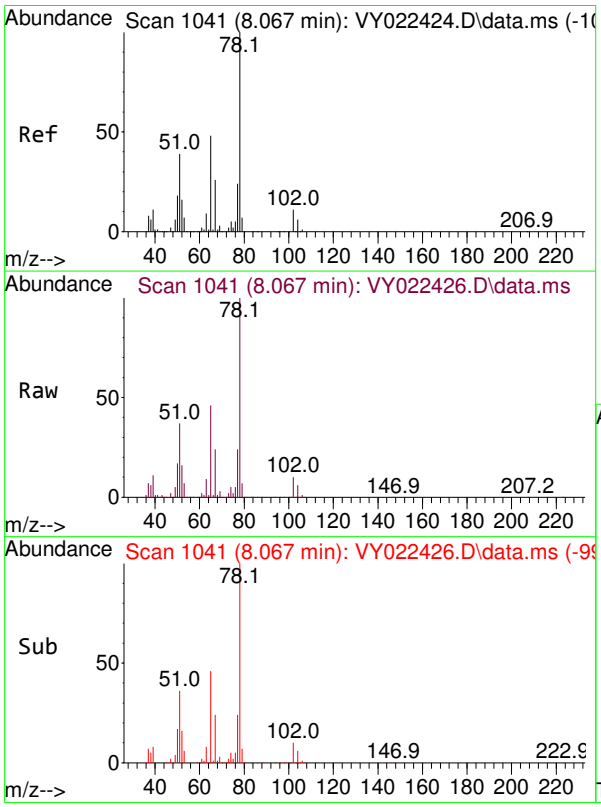


#32
1,1,1-Trichloroethane
Concen: 153.436 ug/l
RT: 7.622 min Scan# 968
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 97 Resp: 737686

Ion	Ratio	Lower	Upper
97	100		
99	64.5	51.3	76.9
61	46.8	37.3	55.9





#33
1,2-Dichloroethane-d4
Concen: 153.366 ug/l
RT: 8.067 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 65 Resp: 42253

Ion	Ratio	Lower	Upper
65	100		
67	52.0	0.0	104.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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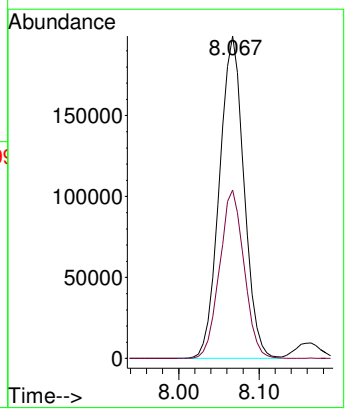
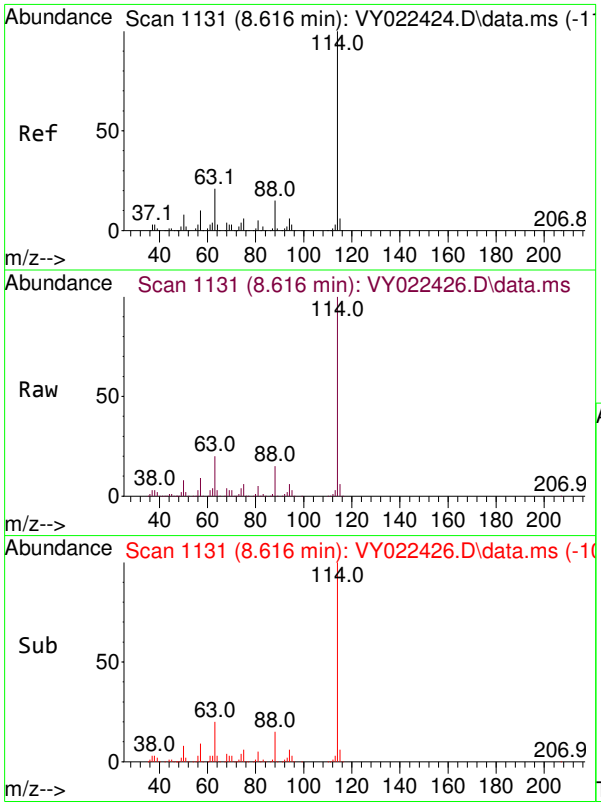
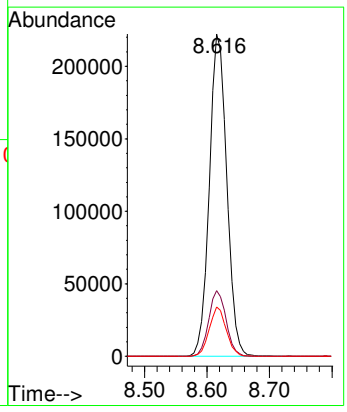


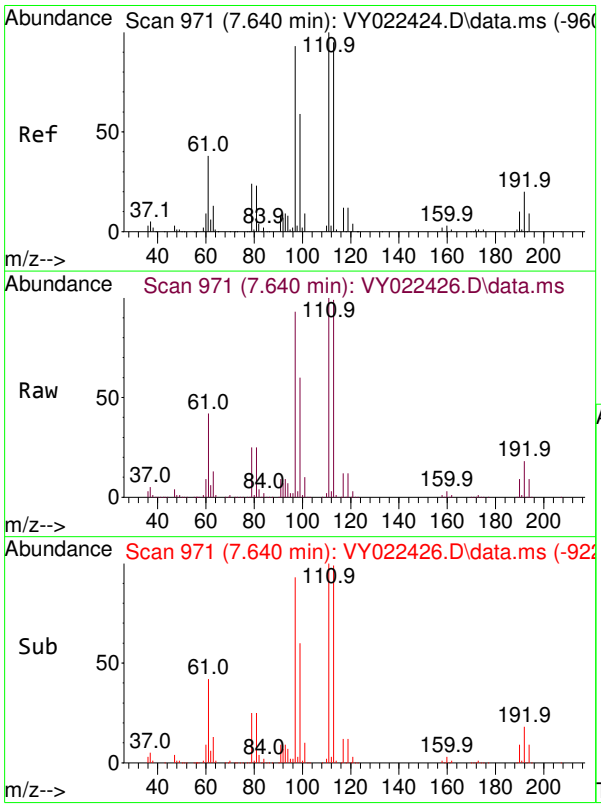


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion:114 Resp: 431909

Ion	Ratio	Lower	Upper
114	100		
63	20.3	0.0	42.6
88	15.3	0.0	29.4





#35
Dibromofluoromethane
Concen: 157.523 ug/l
RT: 7.640 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion:113 Resp: 39843

Ion	Ratio	Lower	Upper
113	100		
111	102.8	82.4	123.6
192	18.2	15.2	22.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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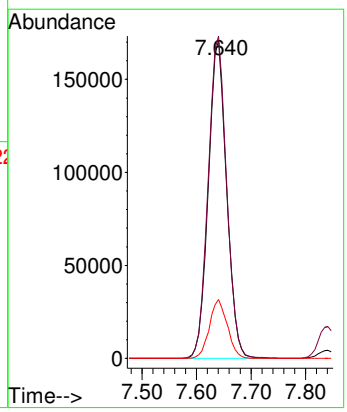
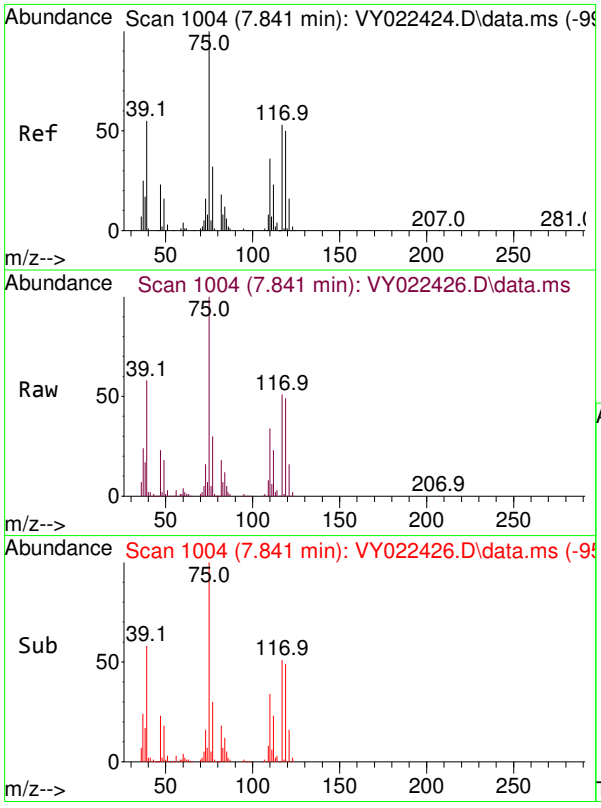
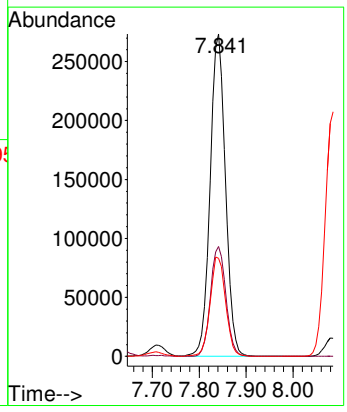


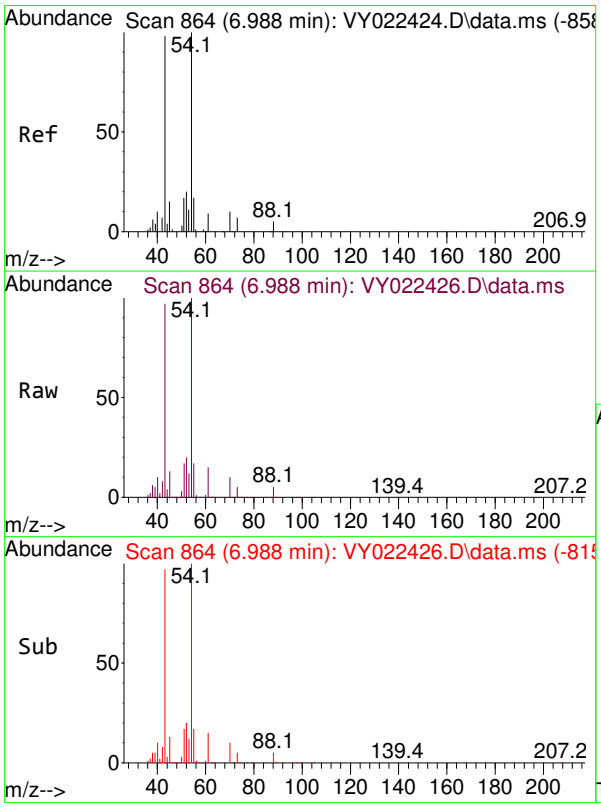


#36
1,1-Dichloropropene
Concen: 155.342 ug/l
RT: 7.841 min Scan# 1004
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 75 Resp: 623501

Ion	Ratio	Lower	Upper
75	100		
110	34.3	17.1	51.2
77	31.2	25.1	37.7





#37
Ethyl Acetate
Concen: 153.581 ug/l
RT: 6.988 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 43 Resp: 26197

Ion	Ratio	Lower	Upper
43	100		
61	14.1	11.7	17.5
70	9.5	7.8	11.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
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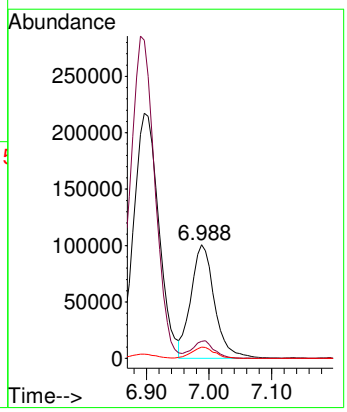
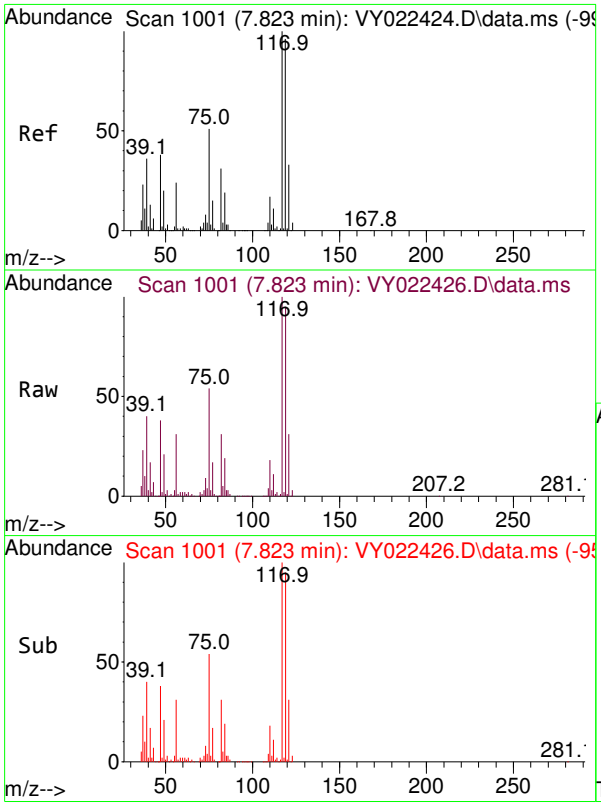
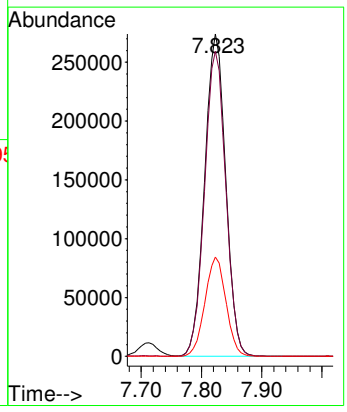


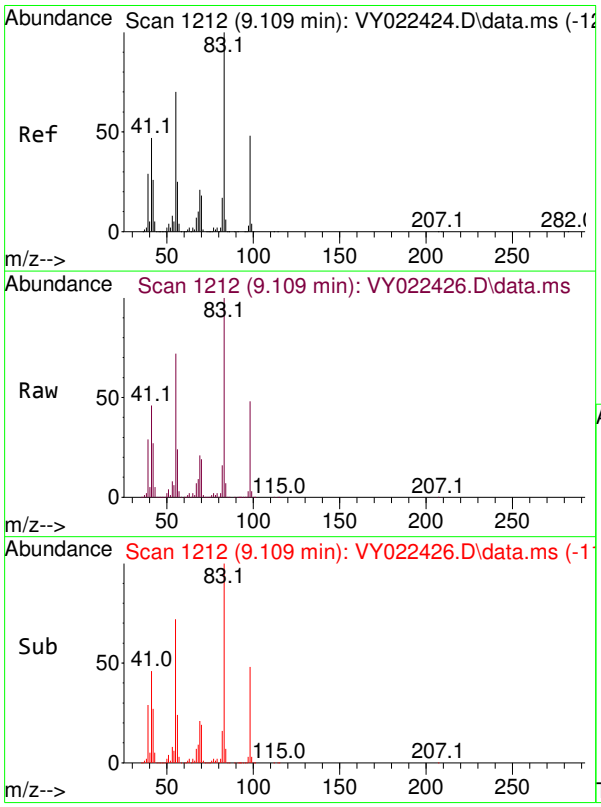


#38
Carbon Tetrachloride
Concen: 158.776 ug/l
RT: 7.823 min Scan# 1001
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion:117 Resp: 663867

Ion	Ratio	Lower	Upper
117	100		
119	94.6	76.3	114.5
121	30.8	26.1	39.1





#39
Methylcyclohexane
Concen: 154.561 ug/l
RT: 9.109 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 83 Resp: 82464

Ion	Ratio	Lower	Upper
83	100		
55	71.6	56.2	84.2
98	47.7	38.4	57.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
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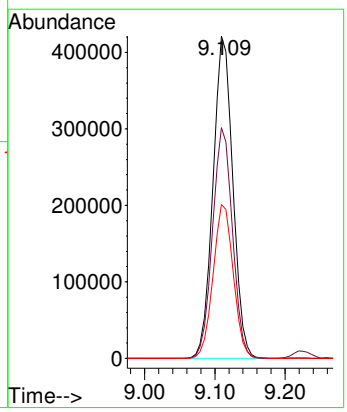
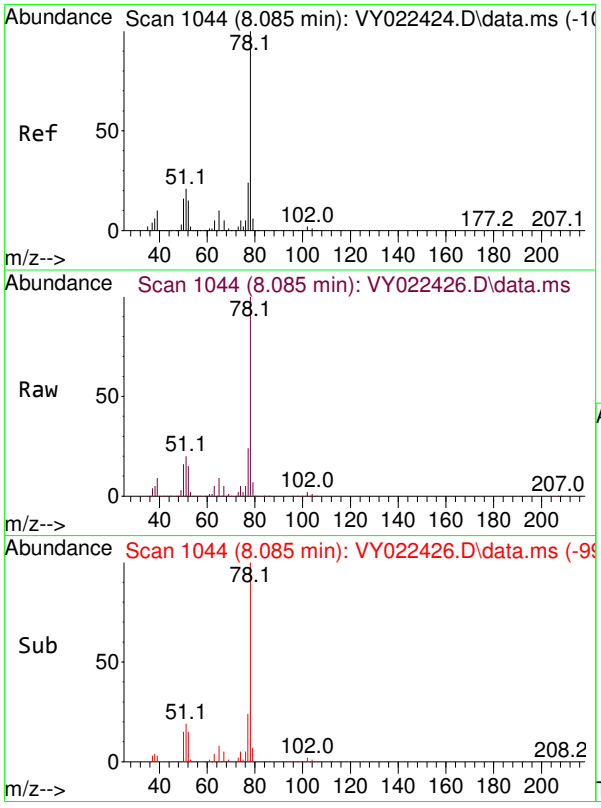
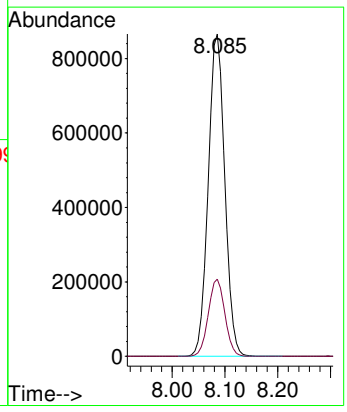


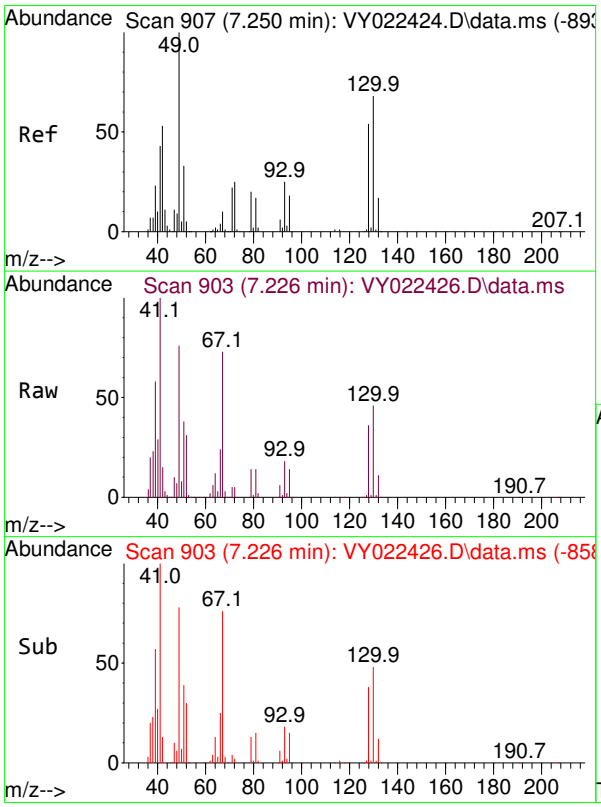


#40
Benzene
Concen: 158.501 ug/l
RT: 8.085 min Scan# 1044
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 78 Resp: 1893003

Ion	Ratio	Lower	Upper
78	100		
77	23.9	19.4	29.2

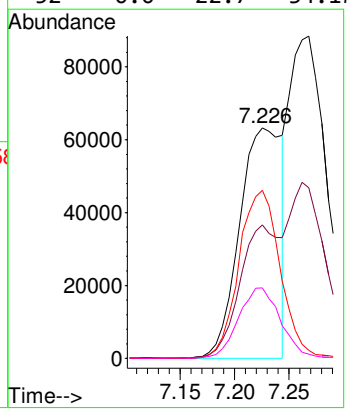




#41
Methacrylonitrile
Concen: 76.337 ug/l m
RT: 7.226 min Scan# 9
Delta R.T. -0.024 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 41 Resp: 17137

Ion	Ratio	Lower	Upper
41	100		
39	65.4	40.4	60.6
67	0.0	53.0	79.4
52	0.0	22.7	34.1#



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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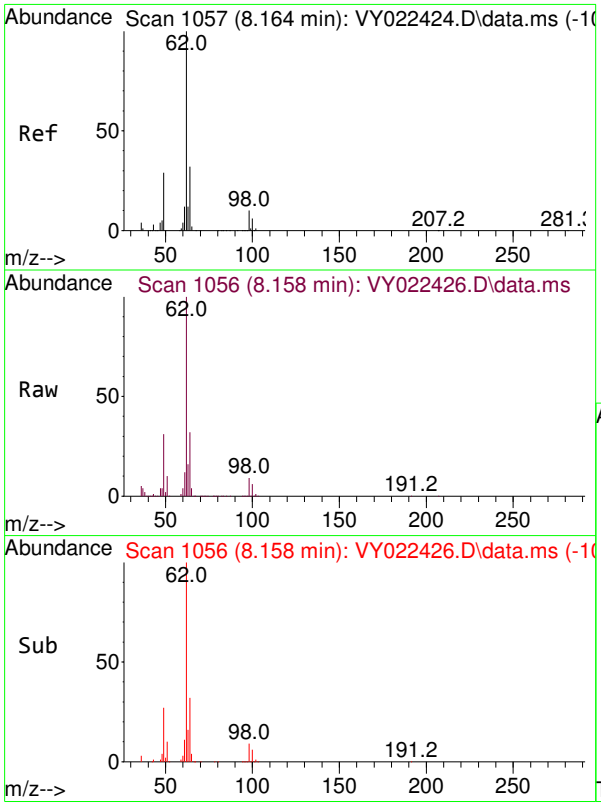
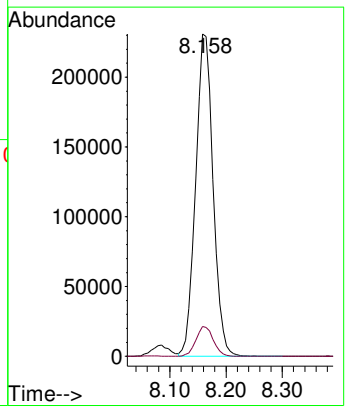
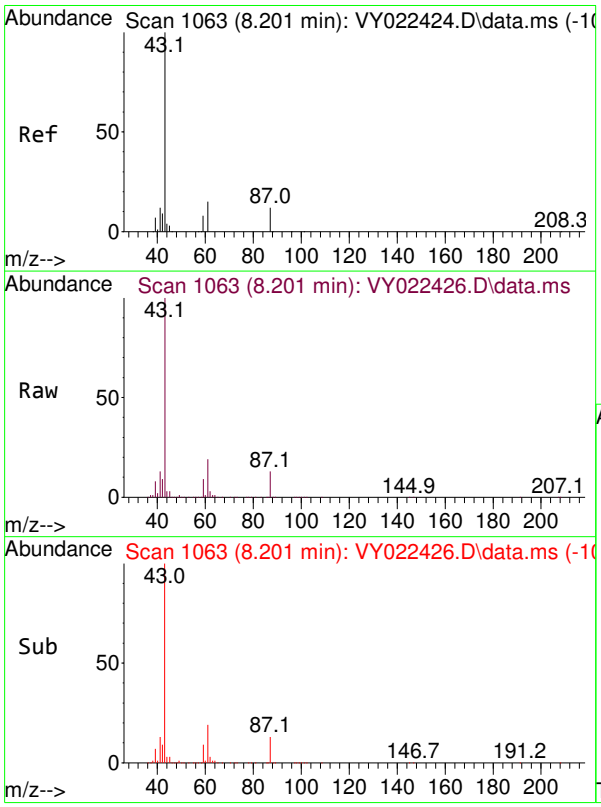


#42
1,2-Dichloroethane
Concen: 157.877 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. -0.006 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 62 Resp: 497991

Ion	Ratio	Lower	Upper
62	100		
98	9.3	0.0	18.4

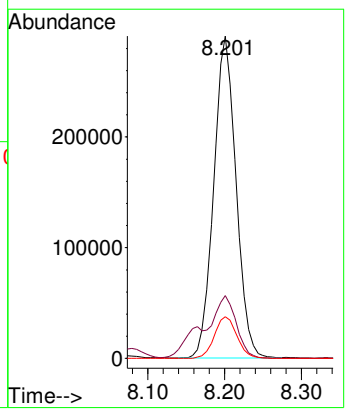




#43
Isopropyl Acetate
Concen: 157.564 ug/l
RT: 8.201 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 43 Resp: 58730

Ion	Ratio	Lower	Upper
43	100		
61	19.1	15.4	23.0
87	13.2	10.6	15.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
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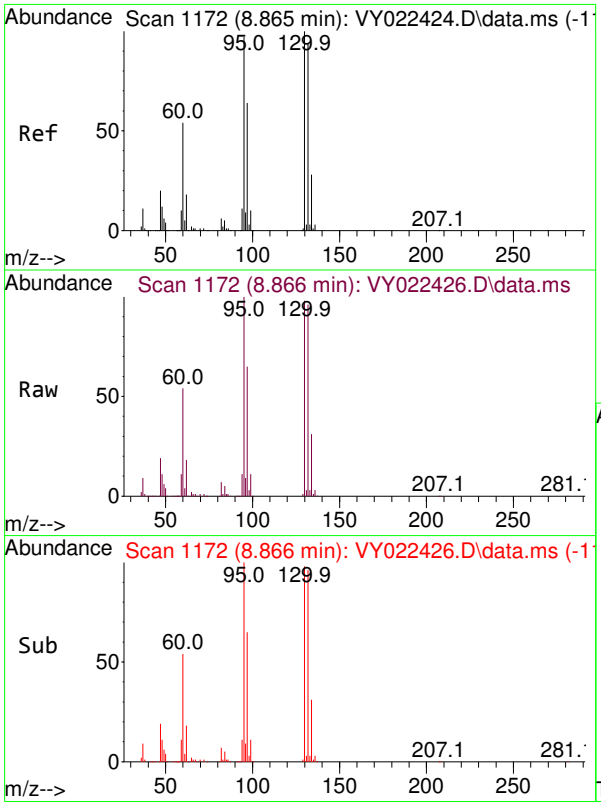
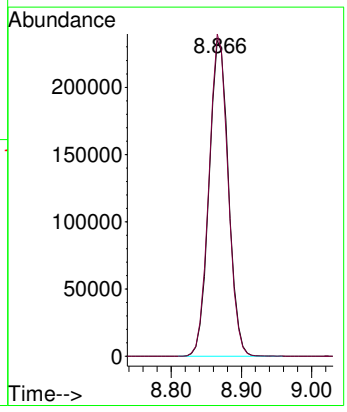
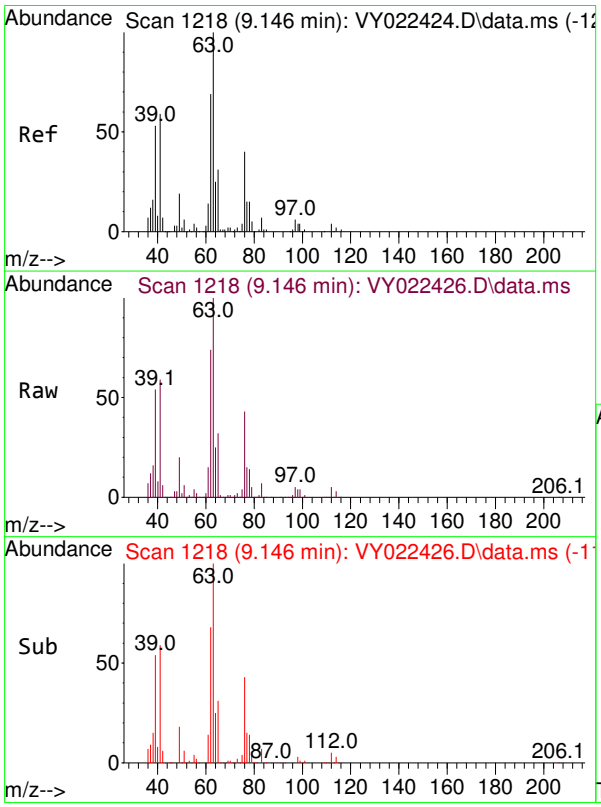


#44
Trichloroethene
Concen: 152.390 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion:130 Resp: 449921

Ion	Ratio	Lower	Upper
130	100		
95	102.1	0.0	194.8





#45
1,2-Dichloropropane
Concen: 156.346 ug/l
RT: 9.146 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 63 Resp: 43872

Ion	Ratio	Lower	Upper
63	100		
65	31.8	25.1	37.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
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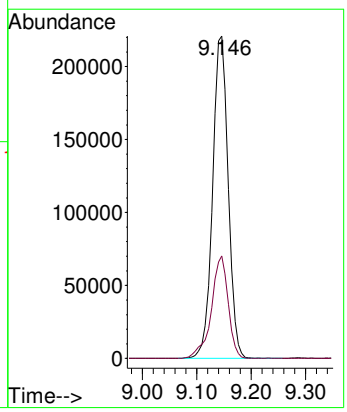
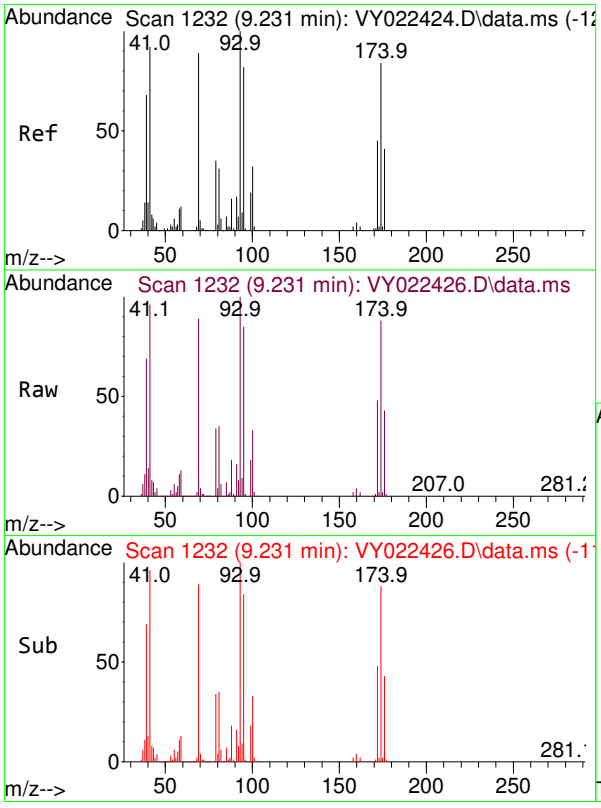
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

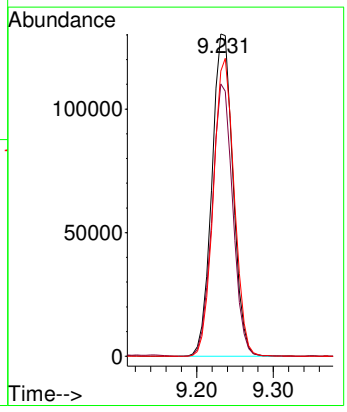


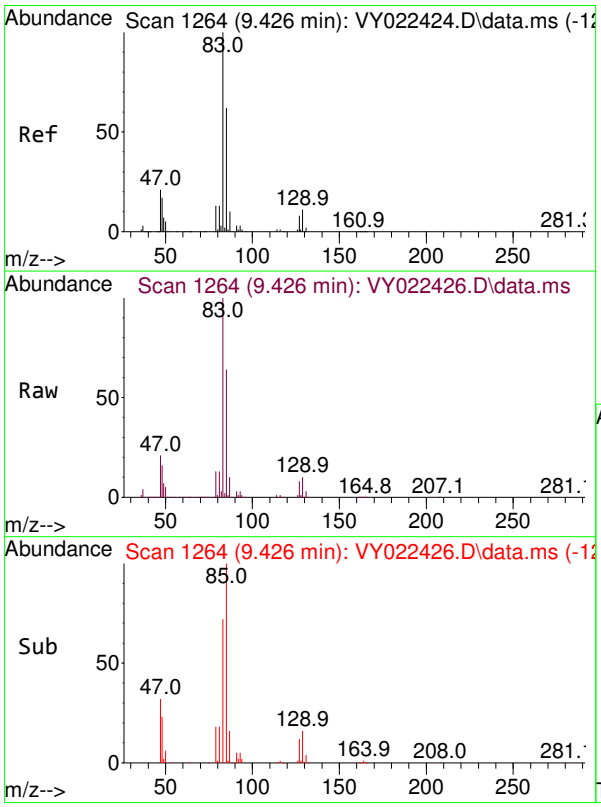


#46
Dibromomethane
Concen: 159.252 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 93 Resp: 249636

Ion	Ratio	Lower	Upper
93	100		
95	82.7	66.2	99.2
174	91.1	71.1	106.7





#47
Bromodichloromethane
Concen: 158.668 ug/l
RT: 9.426 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 83 Resp: 63959

Ion	Ratio	Lower	Upper
83	100		
85	63.5	49.8	74.6
127	7.8	6.6	9.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
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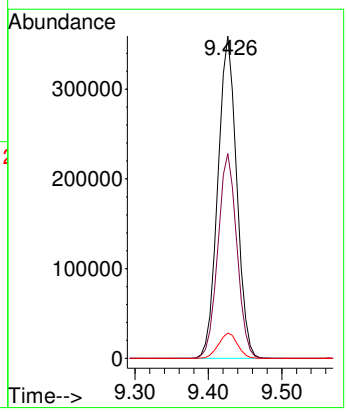
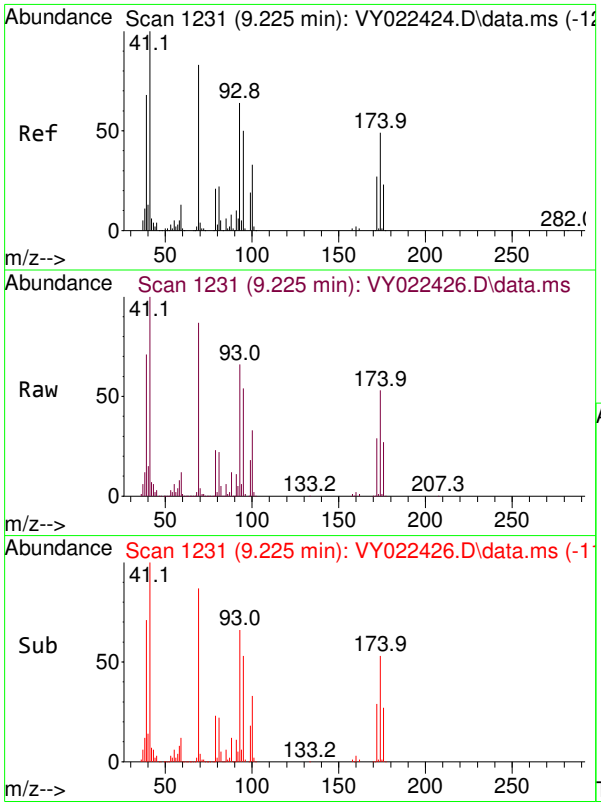
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

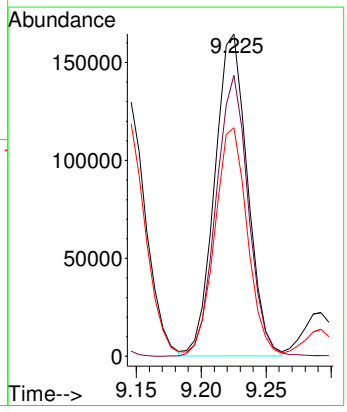


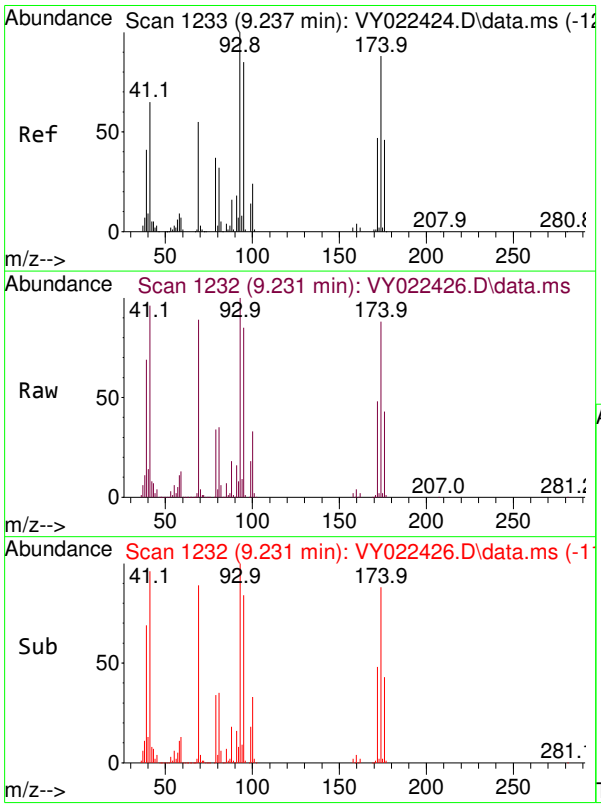


#48
Methyl methacrylate
Concen: 166.922 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 41 Resp: 288821

Ion	Ratio	Lower	Upper
41	100		
69	85.8	70.3	105.5
39	68.2	55.4	83.0





#49
1,4-Dioxane
Concen: 3228.011 ug/l
RT: 9.231 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 88 Resp: 5589

Ion	Ratio	Lower	Upper
88	100		
43	34.1	26.9	40.3
58	67.6	55.8	83.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
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Reviewed By :Amit Patel 05/28/2025
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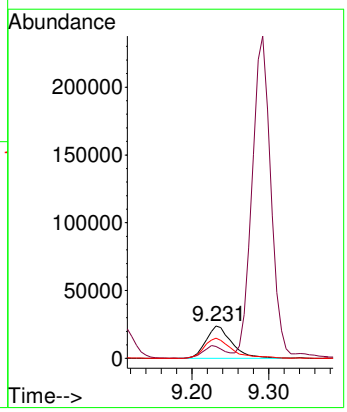
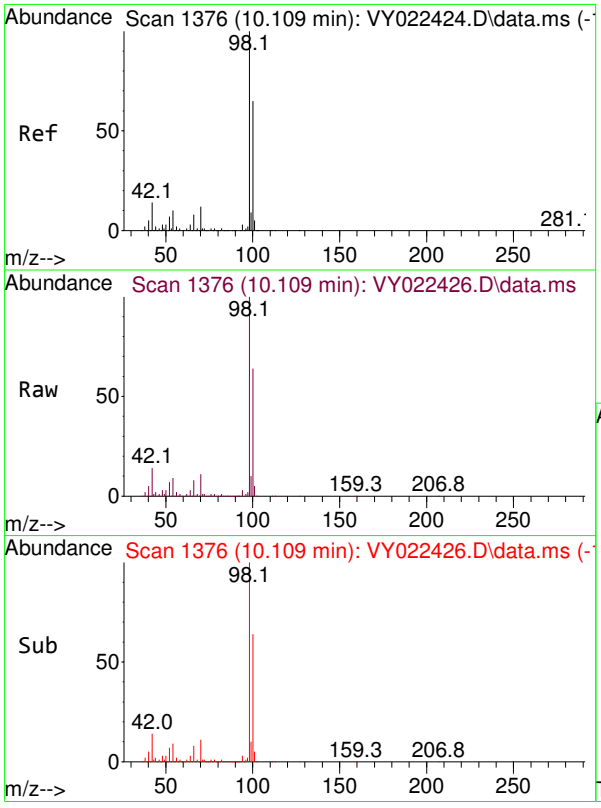
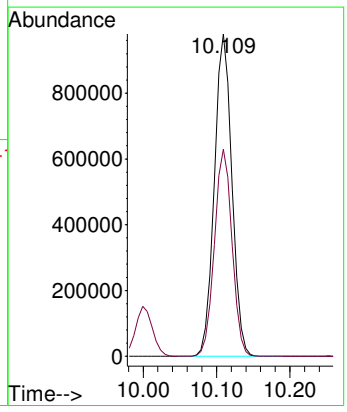


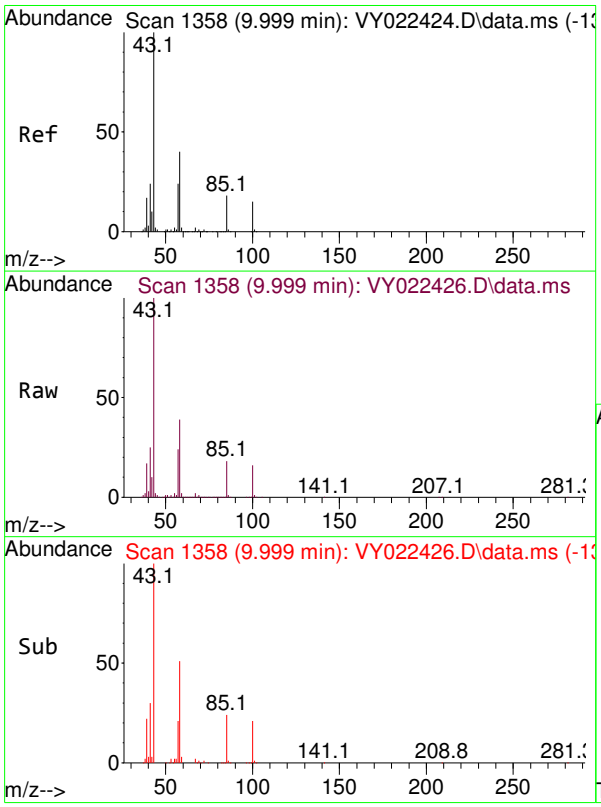


#50
Toluene-d8
Concen: 157.262 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 98 Resp: 1621564

Ion	Ratio	Lower	Upper
98	100		
100	64.4	52.2	78.2





#51
4-Methyl-2-Pentanone
Concen: 851.310 ug/l
RT: 9.999 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 43 Resp: 156566

Ion	Ratio	Lower	Upper
43	100		
58	39.3	31.2	46.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
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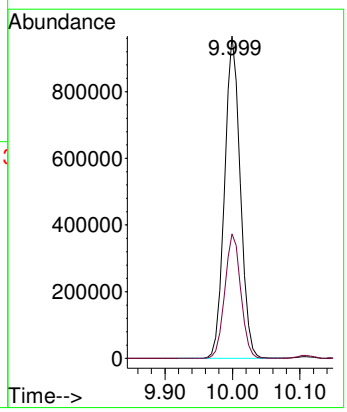
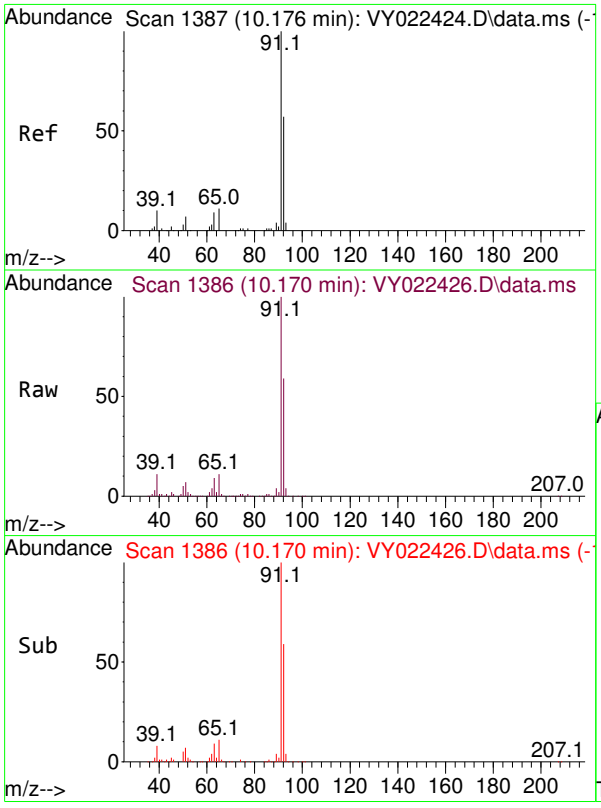
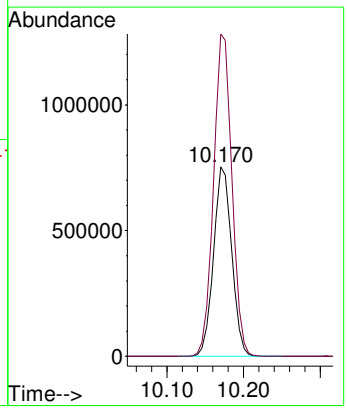


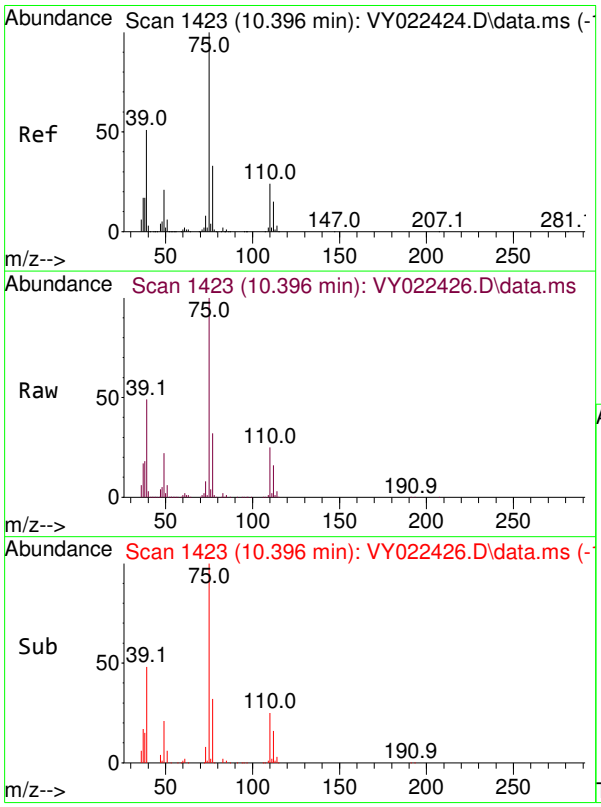


#52
Toluene
Concen: 166.170 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.006 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 92 Resp: 1239585

Ion	Ratio	Lower	Upper
92	100		
91	171.8	139.8	209.6





#53
t-1,3-Dichloropropene
Concen: 163.055 ug/l
RT: 10.396 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 75 Resp: 61223

Ion	Ratio	Lower	Upper
75	100		
77	31.8	26.2	39.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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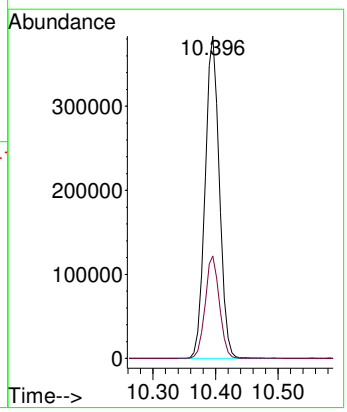
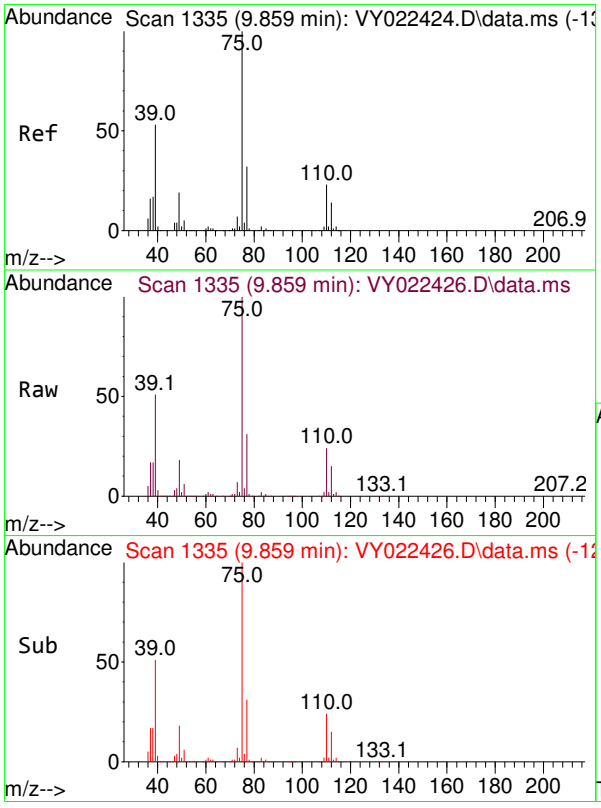
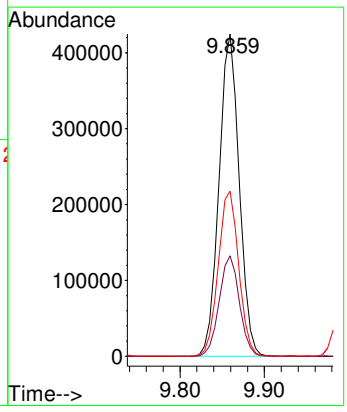


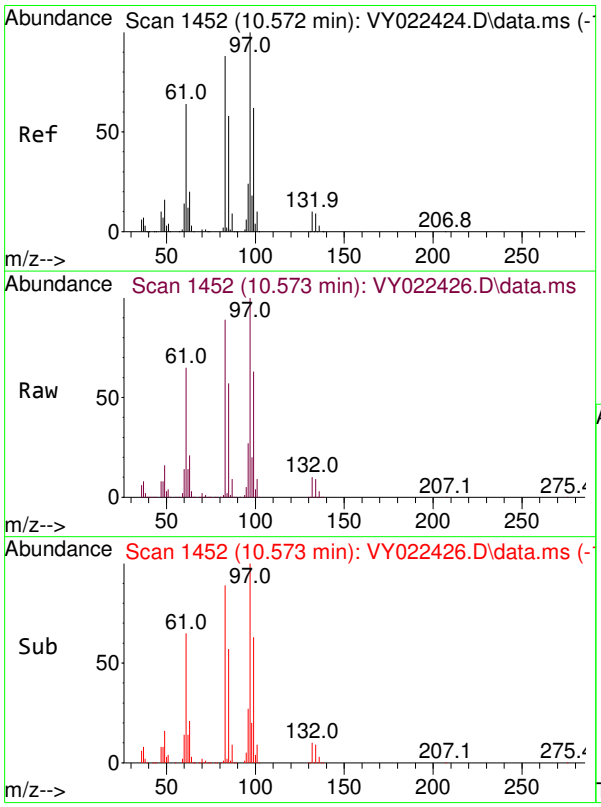


#54
cis-1,3-Dichloropropene
Concen: 160.557 ug/l
RT: 9.859 min Scan# 1335
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 75 Resp: 708367

Ion	Ratio	Lower	Upper
75	100		
77	31.2	25.4	38.2
39	51.2	42.5	63.7

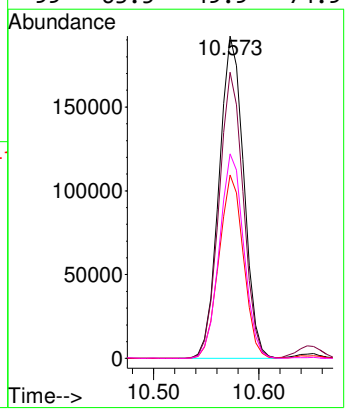




#55
1,1,2-Trichloroethane
Concen: 158.829 ug/l
RT: 10.573 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 97 Resp: 31478

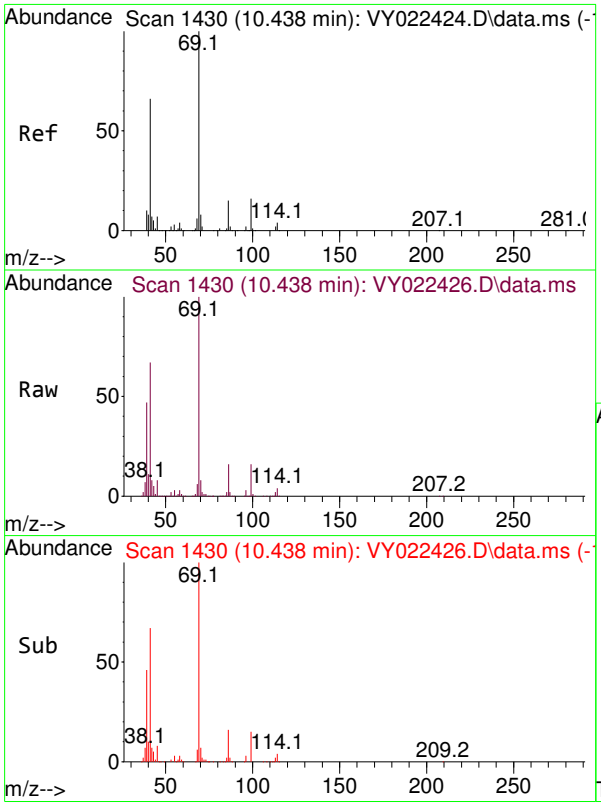
Ion	Ratio	Lower	Upper
97	100		
83	88.7	70.2	105.4
85	56.9	46.1	69.1
99	63.5	49.9	74.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

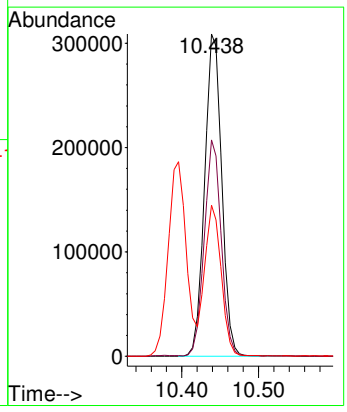
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

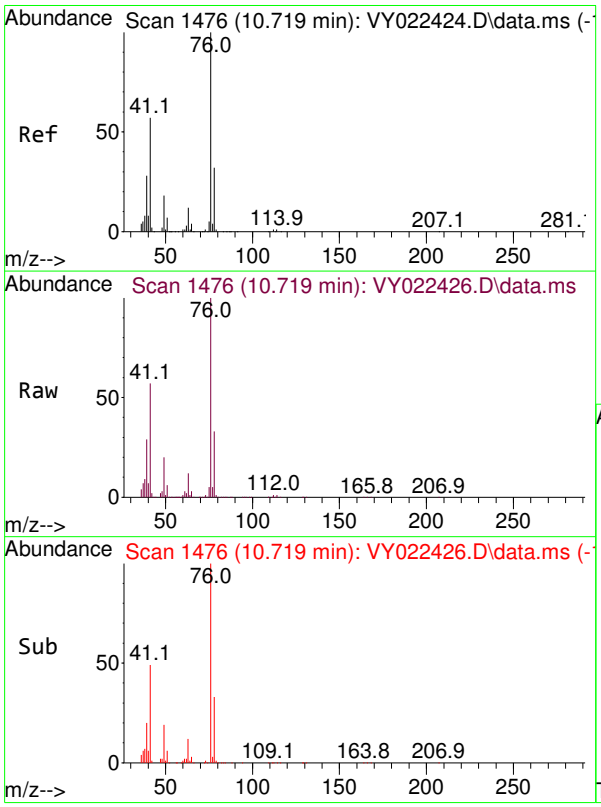


#56
Ethyl methacrylate
Concen: 168.334 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 69 Resp: 478765

Ion	Ratio	Lower	Upper
69	100		
41	66.1	51.2	76.8
39	44.6	35.2	52.8





#57
1,3-Dichloropropane
Concen: 157.203 ug/l
RT: 10.719 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 76 Resp: 54904

Ion	Ratio	Lower	Upper
76	100		
78	32.9	25.8	38.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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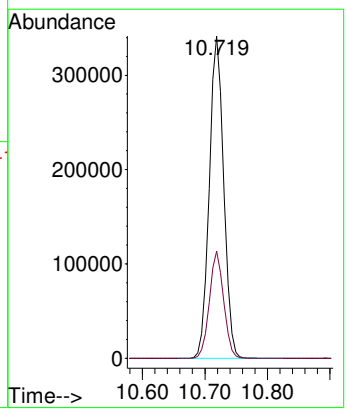
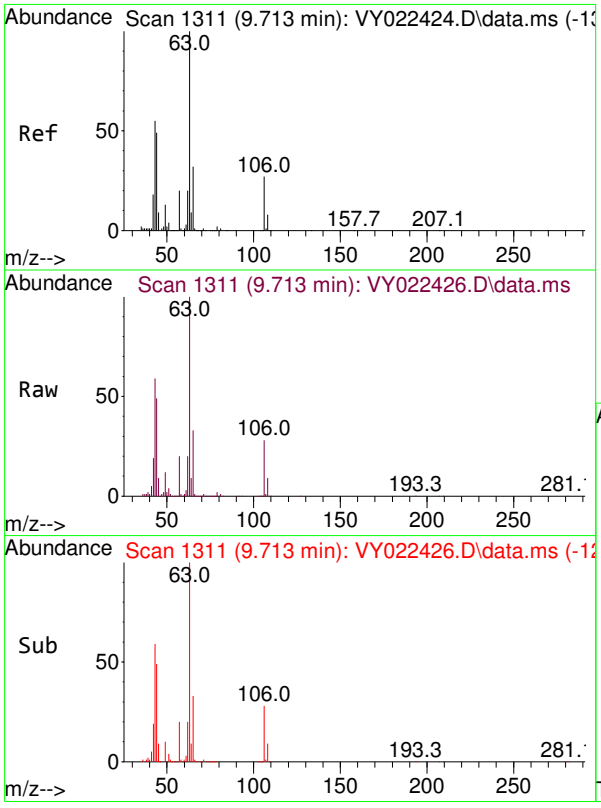
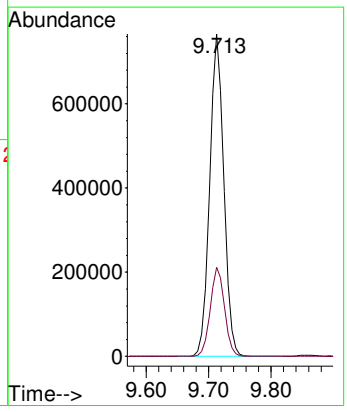


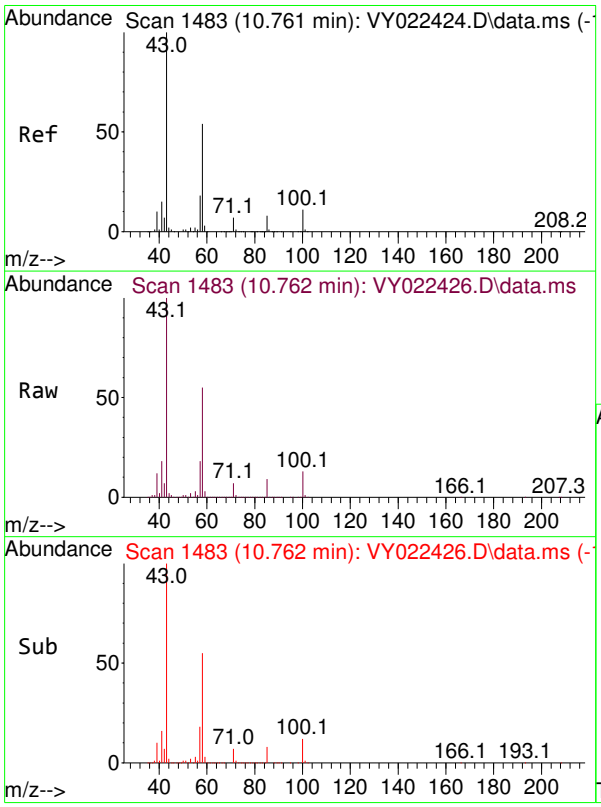


#58
2-Chloroethyl Vinyl ether
Concen: 848.088 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 63 Resp: 1202134

Ion	Ratio	Lower	Upper
63	100		
106	27.7	22.2	33.2





#59
2-Hexanone
Concen: 856.364 ug/l
RT: 10.762 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 43 Resp: 103214

Ion	Ratio	Lower	Upper
43	100		
58	54.9	27.1	81.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
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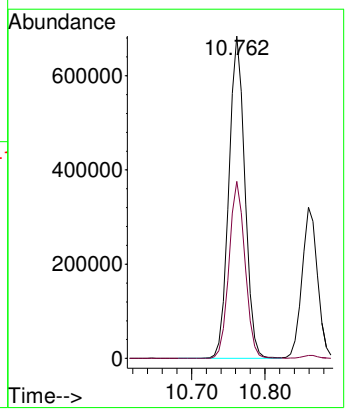
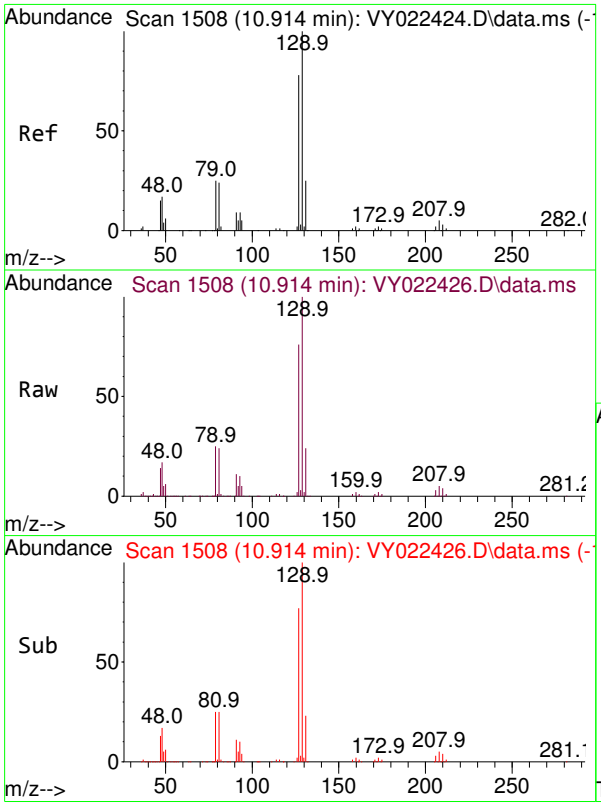
Supervised By :Mahesh Dadoda 05/28/2025

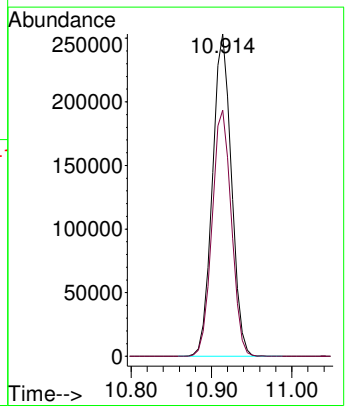


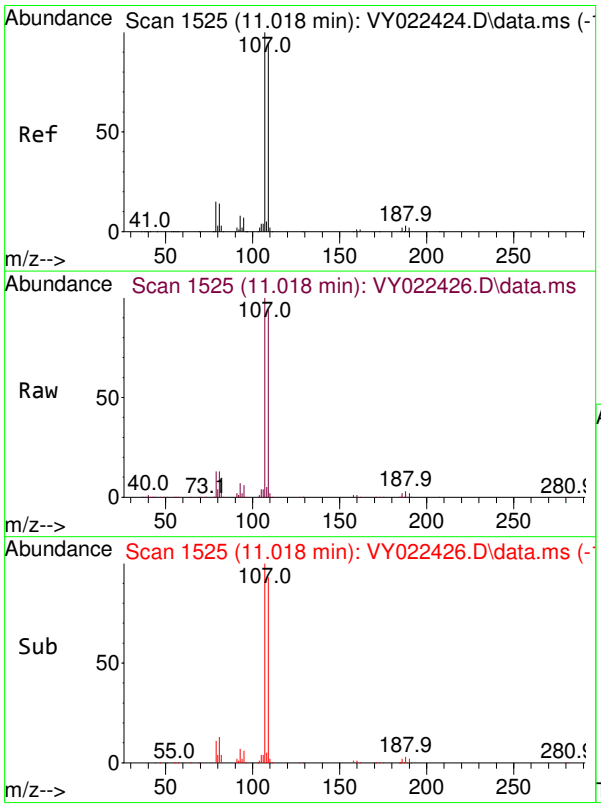


#60
Dibromochloromethane
Concen: 164.093 ug/l
RT: 10.914 min Scan# 1508
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion:129 Resp: 415432

Ion	Ratio	Lower	Upper
129	100		
127	77.3	38.3	114.8





#61
1,2-Dibromoethane
Concen: 161.091 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion:107 Resp: 29201

Ion	Ratio	Lower	Upper
107	100		
109	94.3	74.0	111.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
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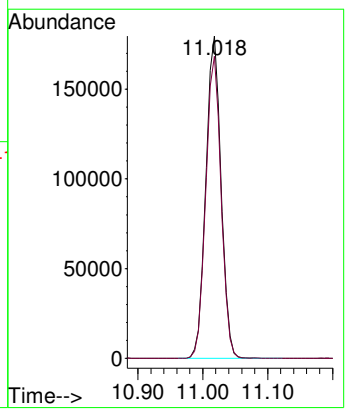
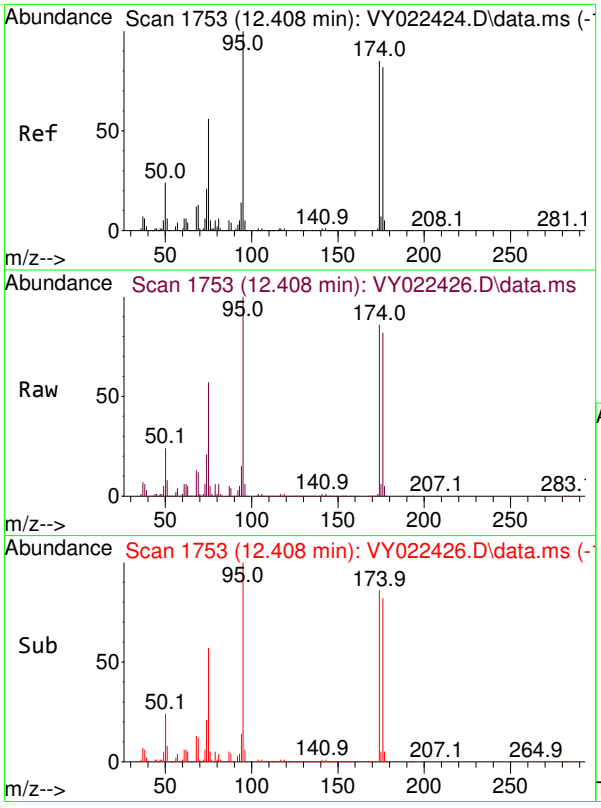
Supervised By :Mahesh Dadoda 05/28/2025

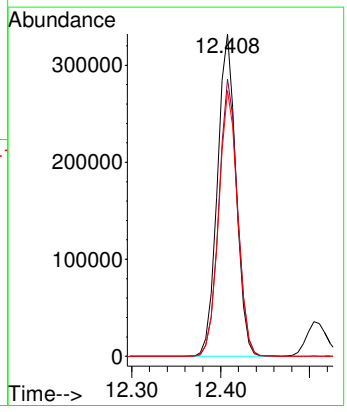


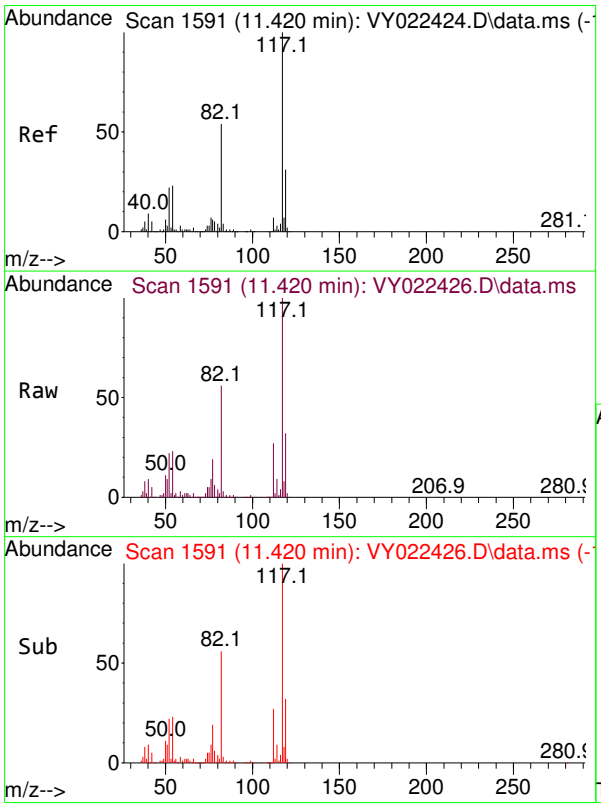


#62
4-Bromofluorobenzene
Concen: 156.173 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 95 Resp: 487100

Ion	Ratio	Lower	Upper
95	100		
174	86.4	0.0	171.6
176	83.6	0.0	164.6





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion:117 Resp: 37660

Ion	Ratio	Lower	Upper
117	100		
82	55.7	43.3	64.9
119	31.7	24.5	36.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
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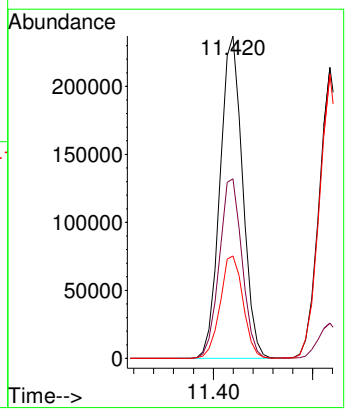
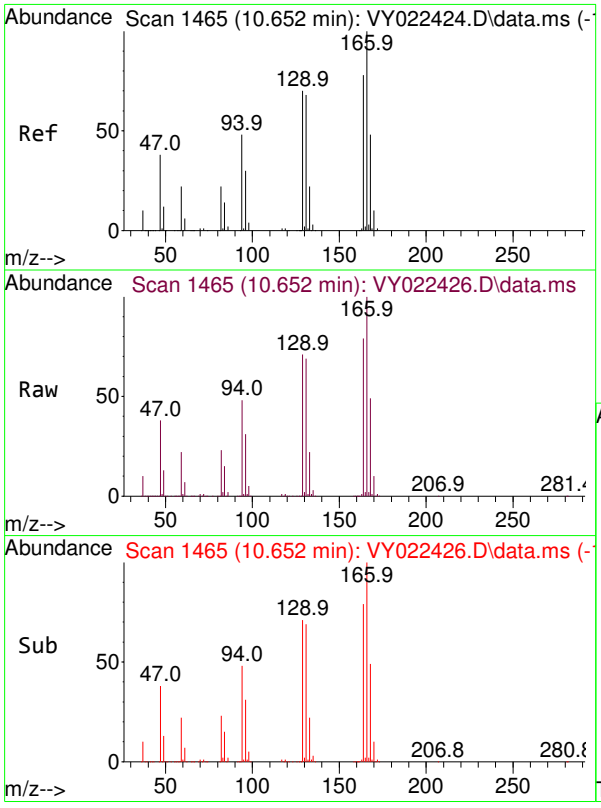
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

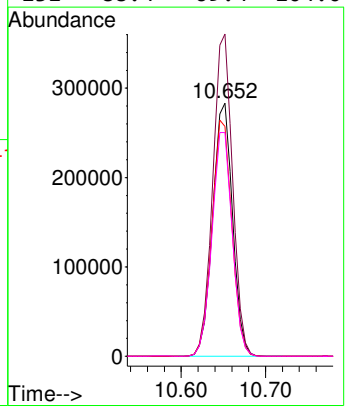


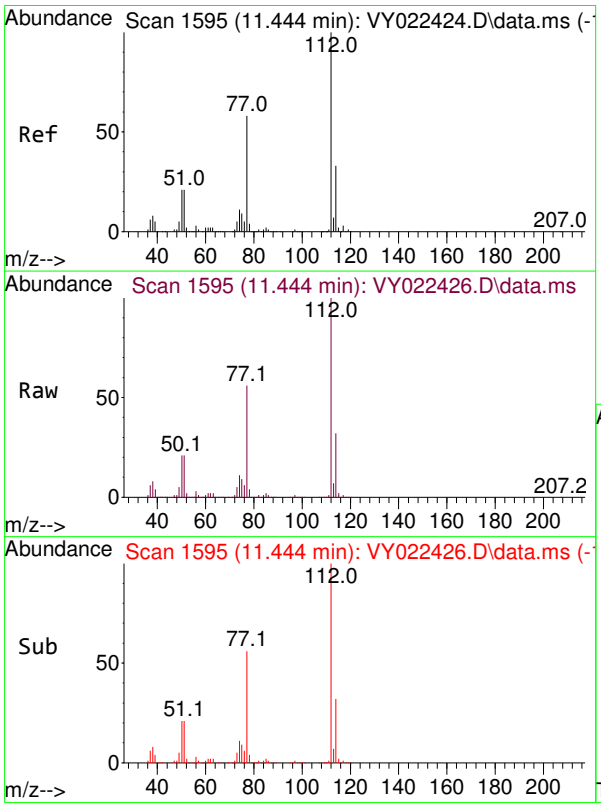


#64
Tetrachloroethene
Concen: 145.442 ug/l
RT: 10.652 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion:164 Resp: 466490

Ion	Ratio	Lower	Upper
164	100		
166	127.3	102.0	153.0
129	90.7	71.3	106.9
131	88.4	69.4	104.0





#65
Chlorobenzene
Concen: 158.560 ug/l
RT: 11.444 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion:112 Resp: 127330

Ion	Ratio	Lower	Upper
112	100		
114	31.9	26.1	39.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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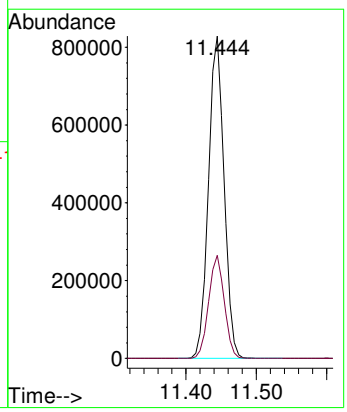
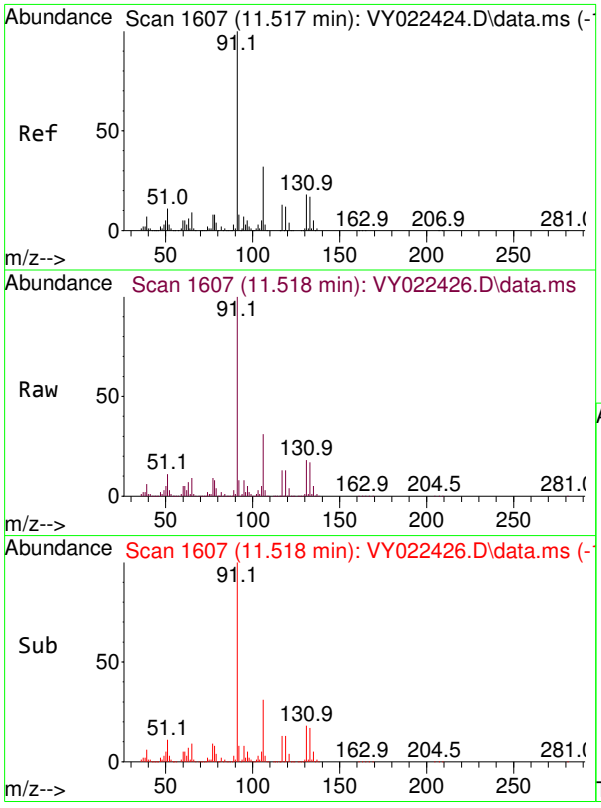
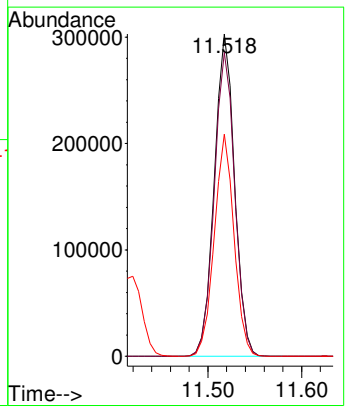


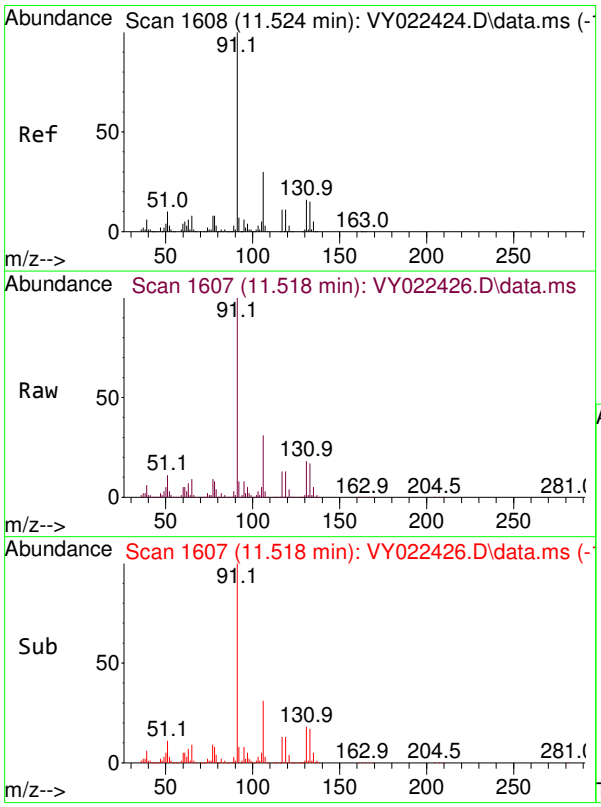


#66
1,1,1,2-Tetrachloroethane
Concen: 166.998 ug/l
RT: 11.518 min Scan# 1607
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion:131 Resp: 454374

Ion	Ratio	Lower	Upper
131	100		
133	95.4	46.6	139.8
119	67.3	33.3	99.8





#67
Ethyl Benzene
Concen: 165.526 ug/l
RT: 11.518 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 91 Resp: 246813

Ion	Ratio	Lower	Upper
91	100		
106	31.3	24.4	36.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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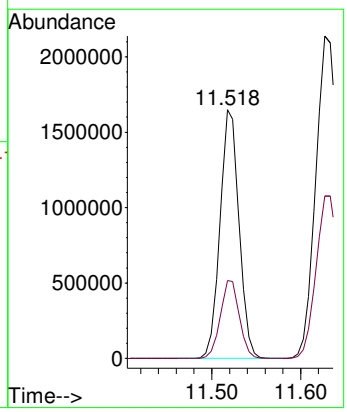
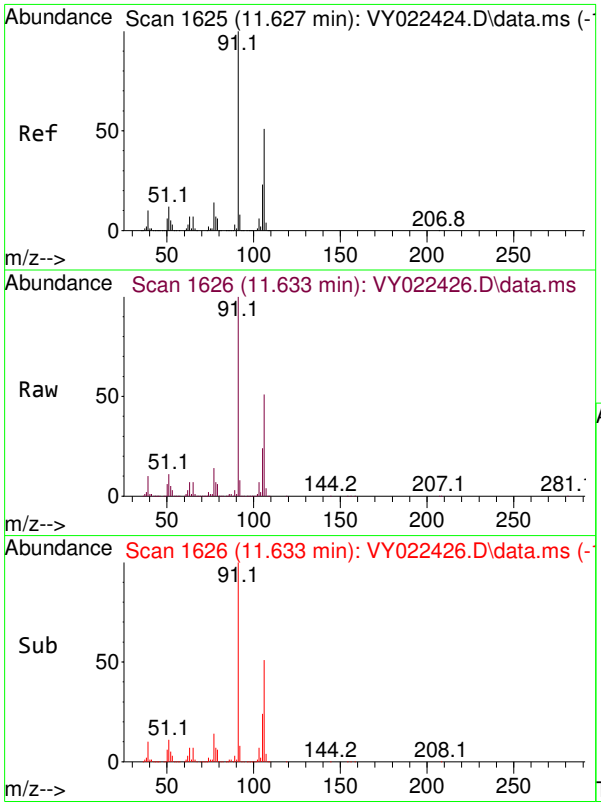
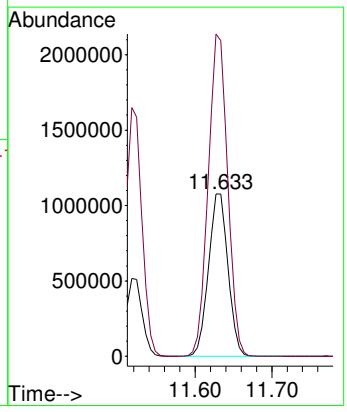


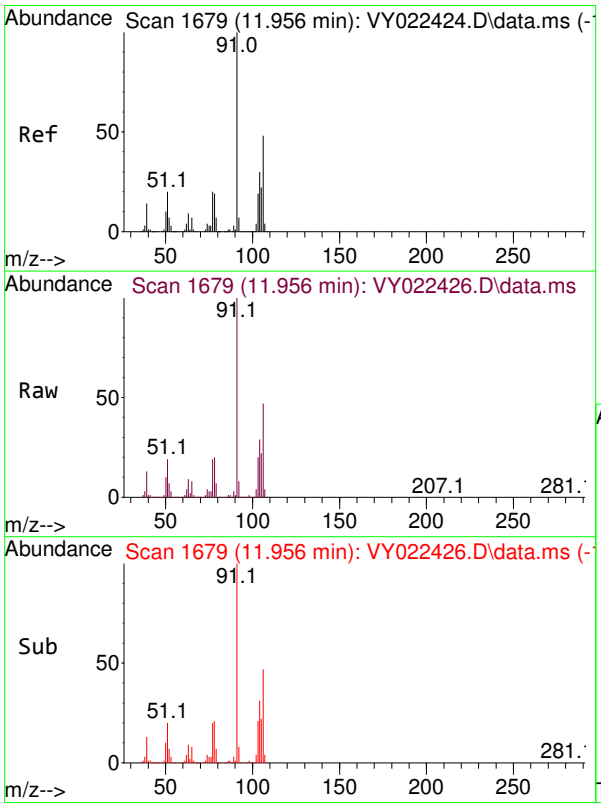


#68
m/p-Xylenes
Concen: 336.111 ug/l
RT: 11.633 min Scan# 1626
Delta R.T. 0.006 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion:106 Resp: 1900132

Ion	Ratio	Lower	Upper
106	100		
91	198.3	159.8	239.8





#69
o-Xylene
Concen: 168.335 ug/l
RT: 11.956 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion:106 Resp: 89439

Ion	Ratio	Lower	Upper
106	100		
91	210.6	106.3	318.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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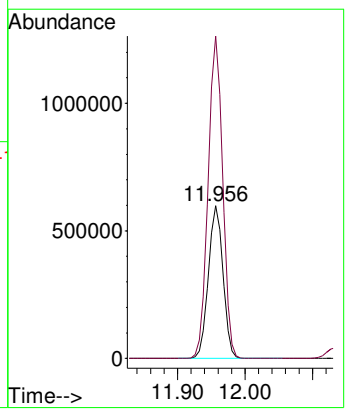
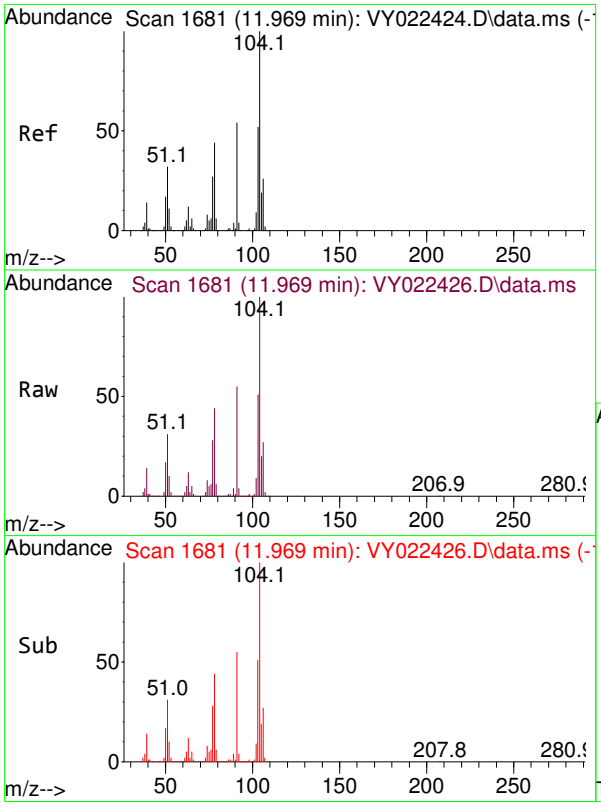
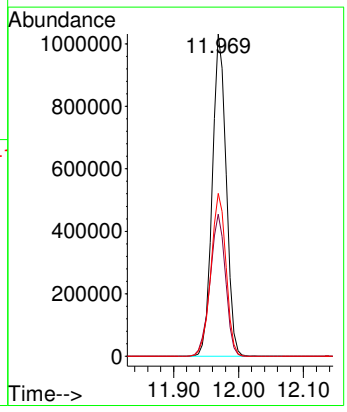


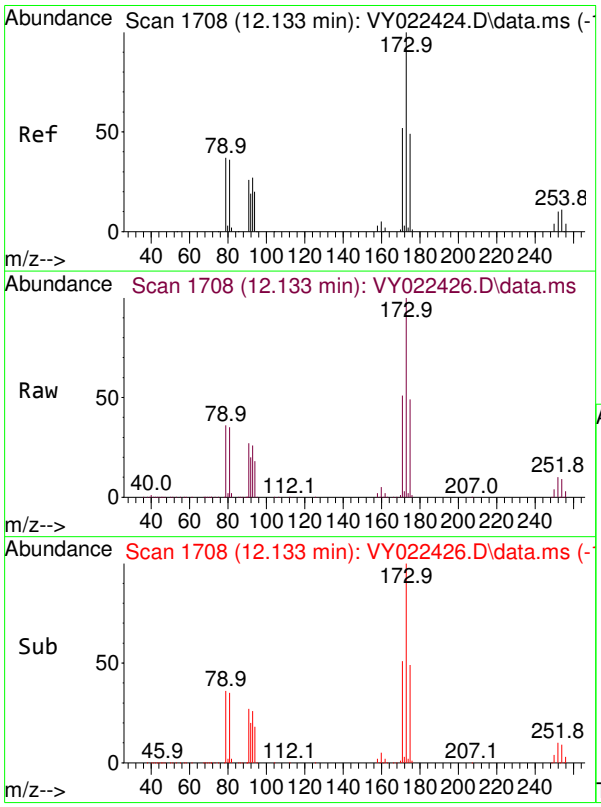


#70
Styrene
Concen: 173.504 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion:104 Resp: 1535004

Ion	Ratio	Lower	Upper
104	100		
78	48.8	38.8	58.2
103	54.9	43.4	65.2





#71
Bromoform
Concen: 166.508 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion:173 Resp: 23730

Ion	Ratio	Lower	Upper
173	100		
175	48.8	24.3	73.0
254	0.1	0.1	0.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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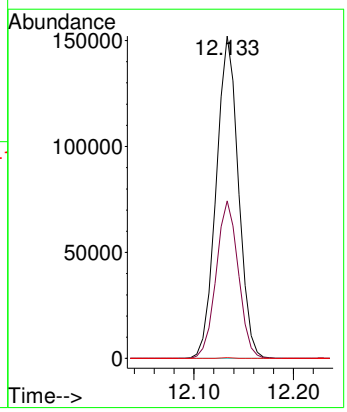
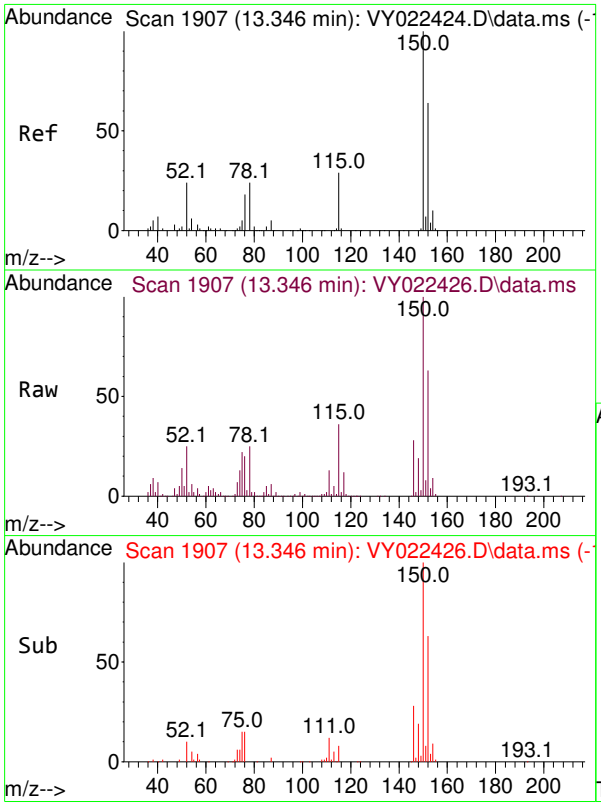
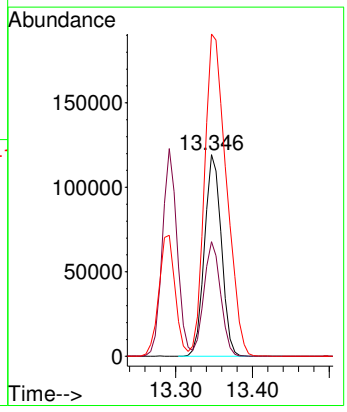


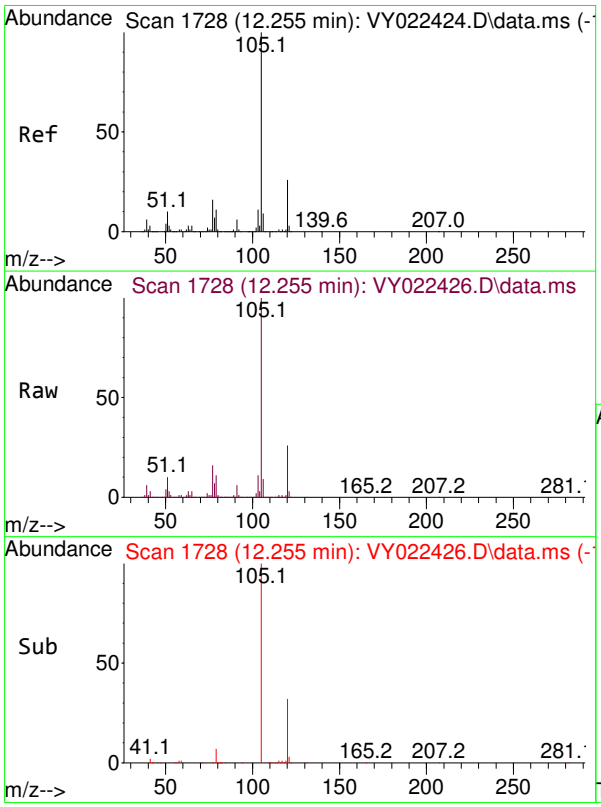


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion:152 Resp: 182671

Ion	Ratio	Lower	Upper
152	100		
115	55.8	28.4	85.3
150	206.8	0.0	345.8

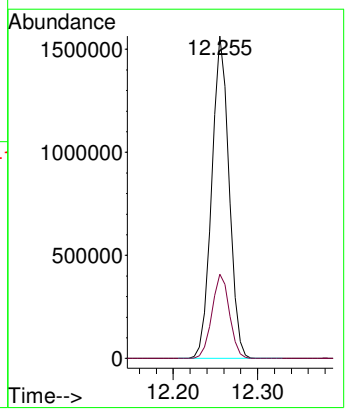




#73
Isopropylbenzene
Concen: 155.735 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion:105 Resp: 223898

Ion	Ratio	Lower	Upper
105	100		
120	26.3	13.2	39.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
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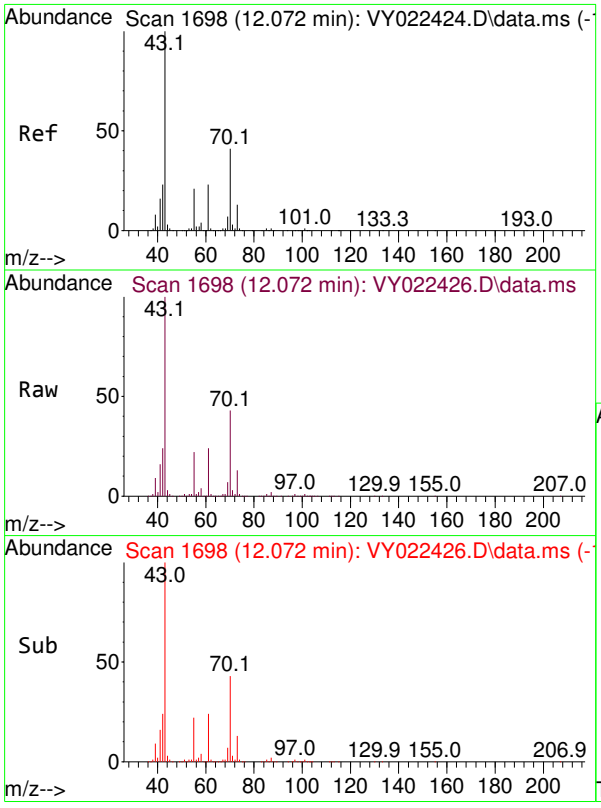
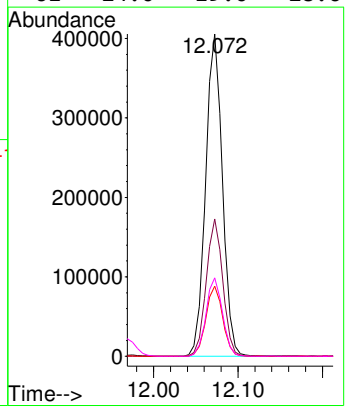
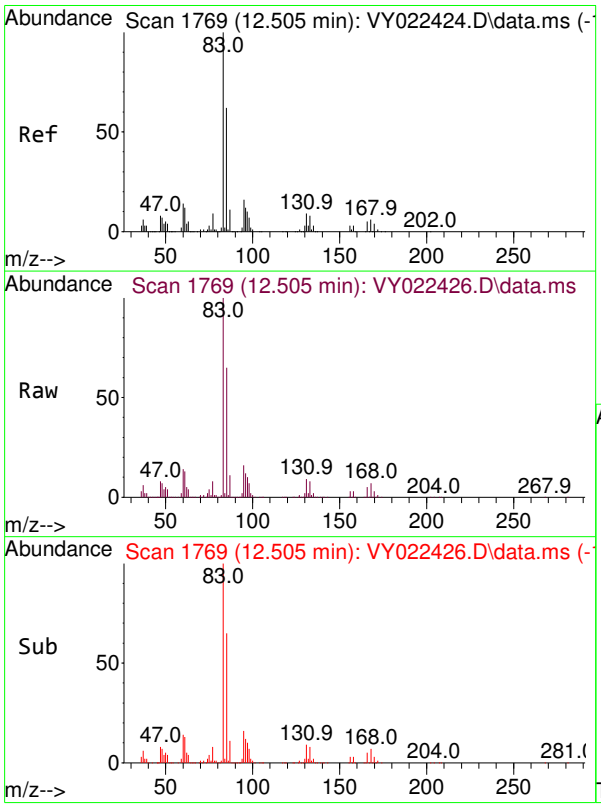


#74
N-amyl acetate
Concen: 159.709 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 43 Resp: 561846

Ion	Ratio	Lower	Upper
43	100		
70	42.0	33.0	49.4
55	22.1	17.5	26.3
61	24.0	19.0	28.6





#75
1,1,2,2-Tetrachloroethane
Concen: 157.873 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 83 Resp: 35760

Ion	Ratio	Lower	Upper
83	100		
131	9.6	4.8	14.4
85	64.2	32.0	96.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

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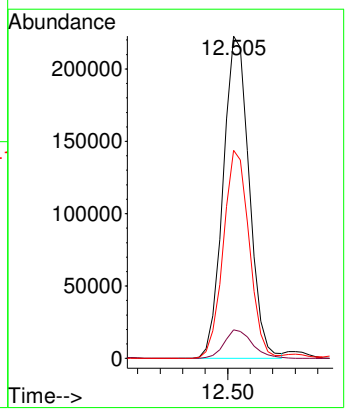
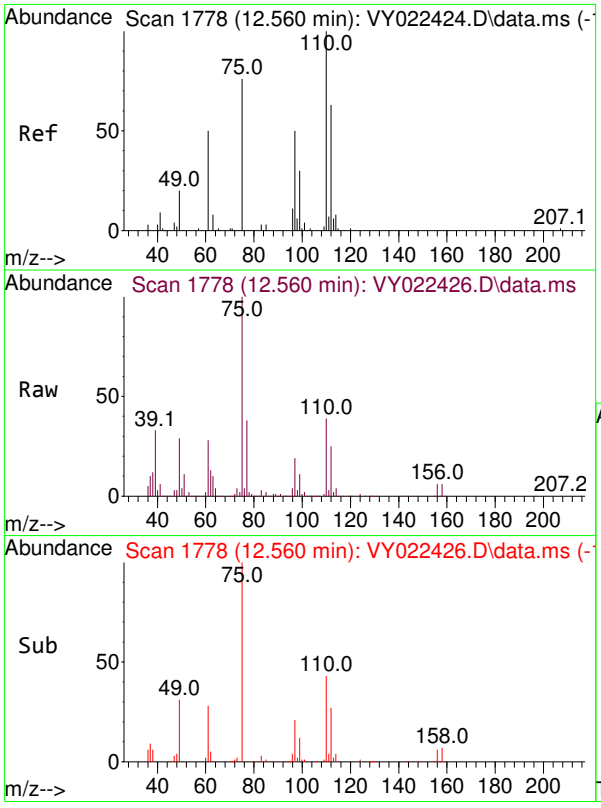
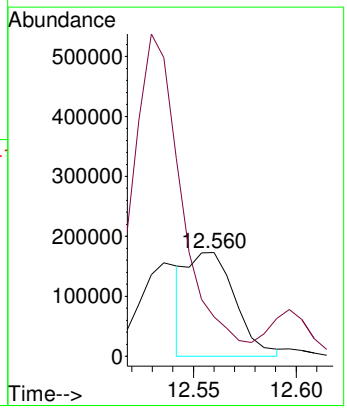


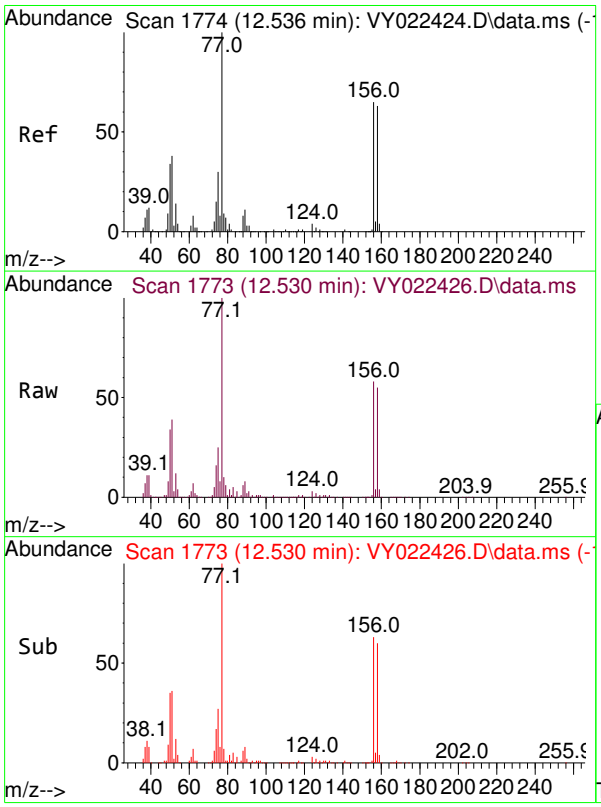


#76
1,2,3-Trichloropropane
Concen: 93.124 ug/l m
RT: 12.560 min Scan# 1778
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 75 Resp: 280272

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

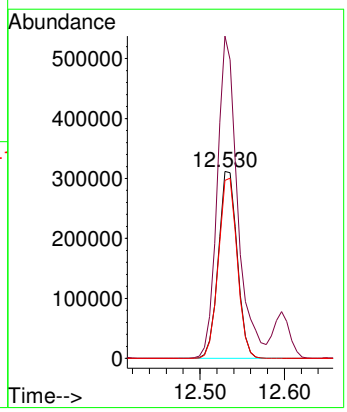




#77
Bromobenzene
Concen: 156.697 ug/l
RT: 12.530 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion:156 Resp: 48479

Ion	Ratio	Lower	Upper
156	100		
77	186.6	91.4	274.2
158	96.3	48.1	144.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
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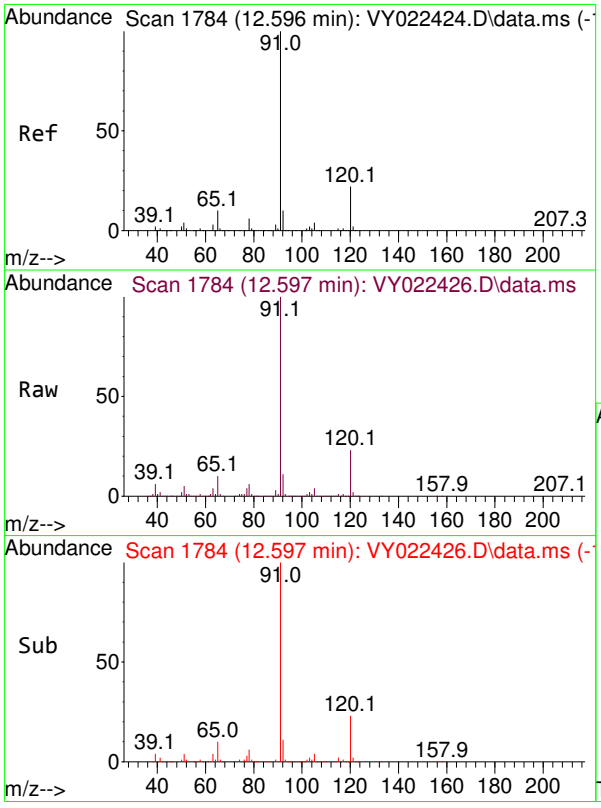
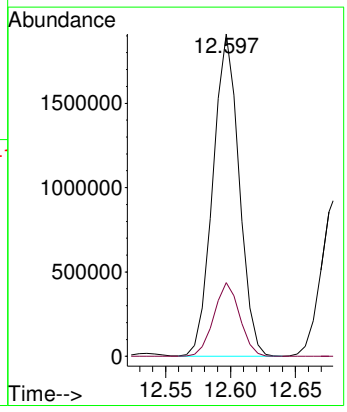
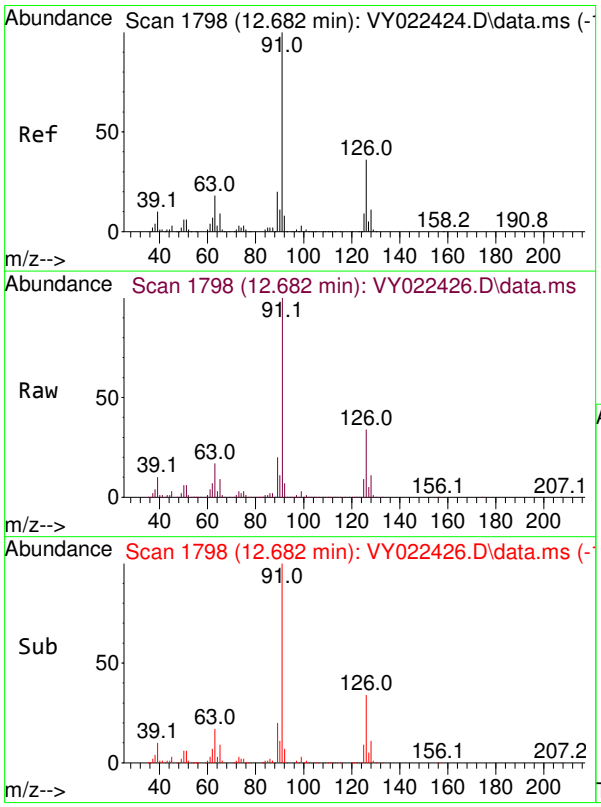


#78
n-propylbenzene
Concen: 155.406 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 91 Resp: 2681276

Ion	Ratio	Lower	Upper
91	100		
120	22.5	11.2	33.5

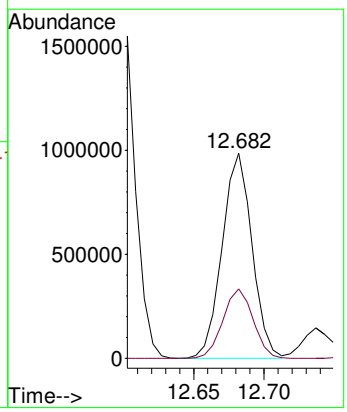




#79
2-Chlorotoluene
Concen: 155.407 ug/l
RT: 12.682 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 91 Resp: 145143

Ion	Ratio	Lower	Upper
91	100		
126	34.3	17.4	52.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
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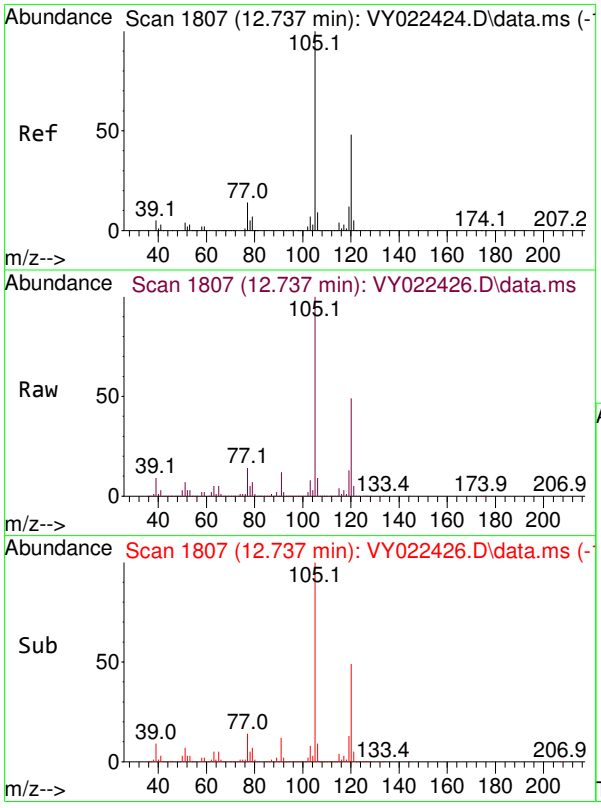
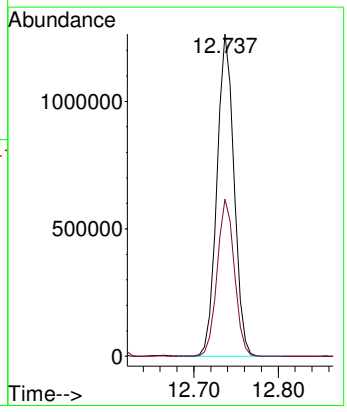
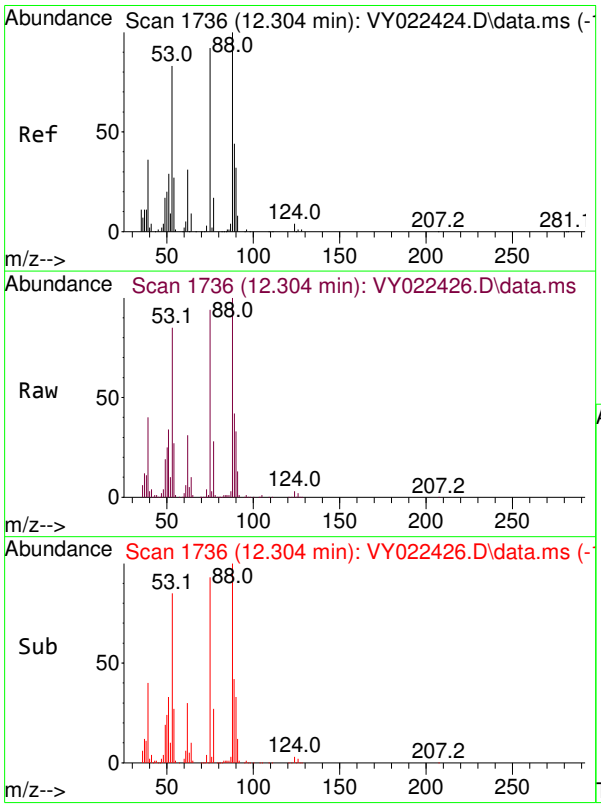


#80
1,3,5-Trimethylbenzene
Concen: 158.958 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion:105 Resp: 1785622

Ion	Ratio	Lower	Upper
105	100		
120	49.1	24.3	73.0





#81
trans-1,4-Dichloro-2-butene
Concen: 160.016 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 75 Resp: 12946

Ion	Ratio	Lower	Upper
75	100		
53	89.5	75.1	112.7
89	44.7	37.4	56.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
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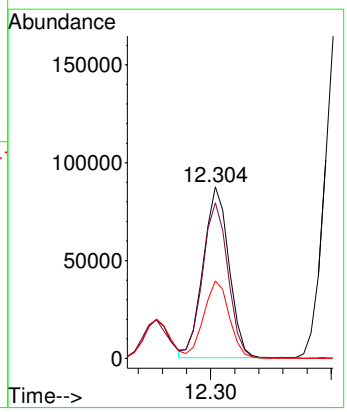
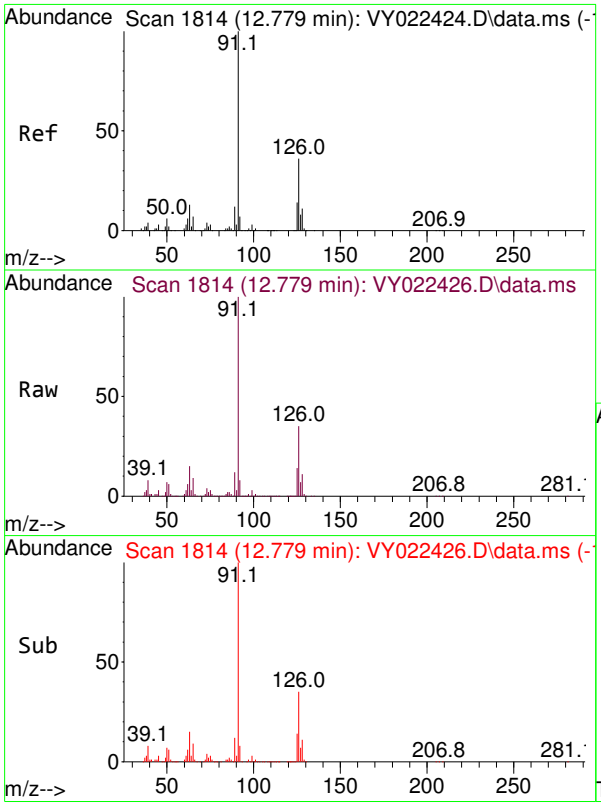
Supervised By :Mahesh Dadoda 05/28/2025

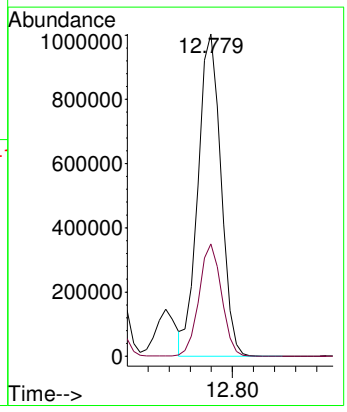


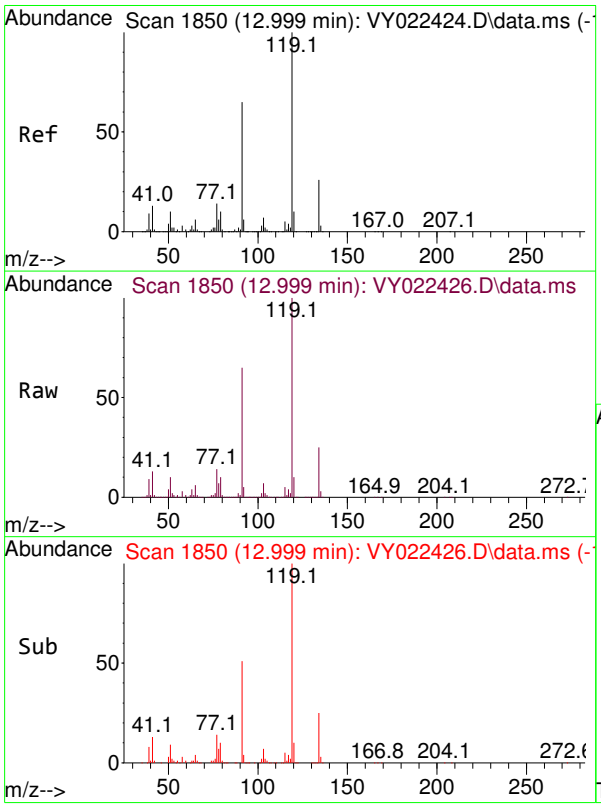


#82
4-Chlorotoluene
Concen: 157.395 ug/l
RT: 12.779 min Scan# 1814
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 91 Resp: 1513977

Ion	Ratio	Lower	Upper
91	100		
126	34.2	17.2	51.6

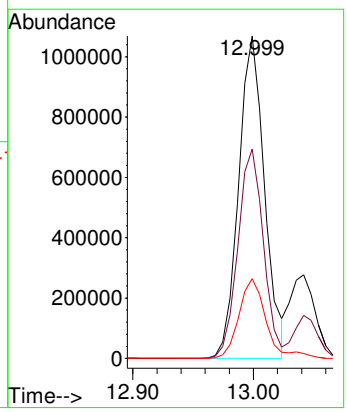




#83
tert-Butylbenzene
Concen: 157.076 ug/l
RT: 12.999 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion:119 Resp: 159419

Ion	Ratio	Lower	Upper
119	100		
91	63.9	31.8	95.3
134	26.0	13.0	38.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
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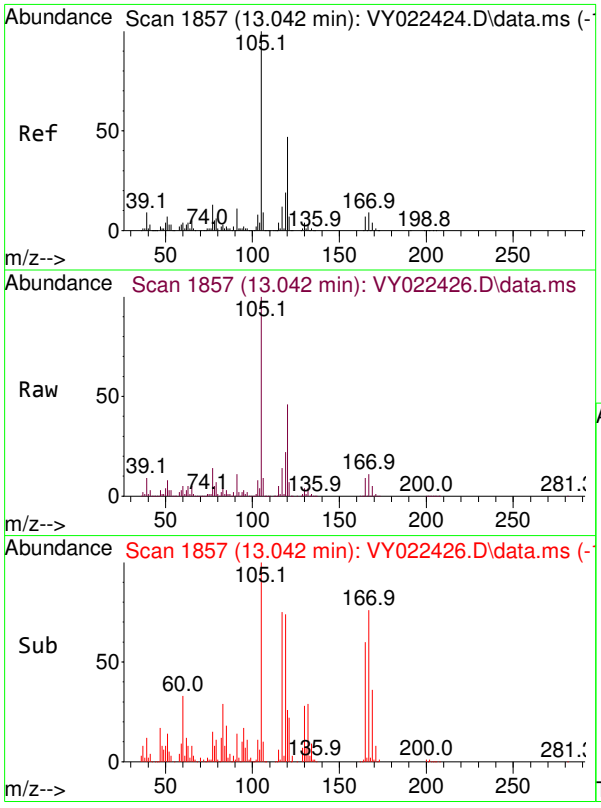
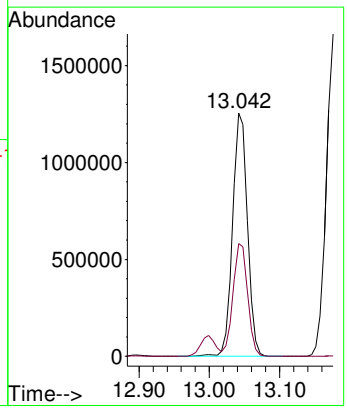
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

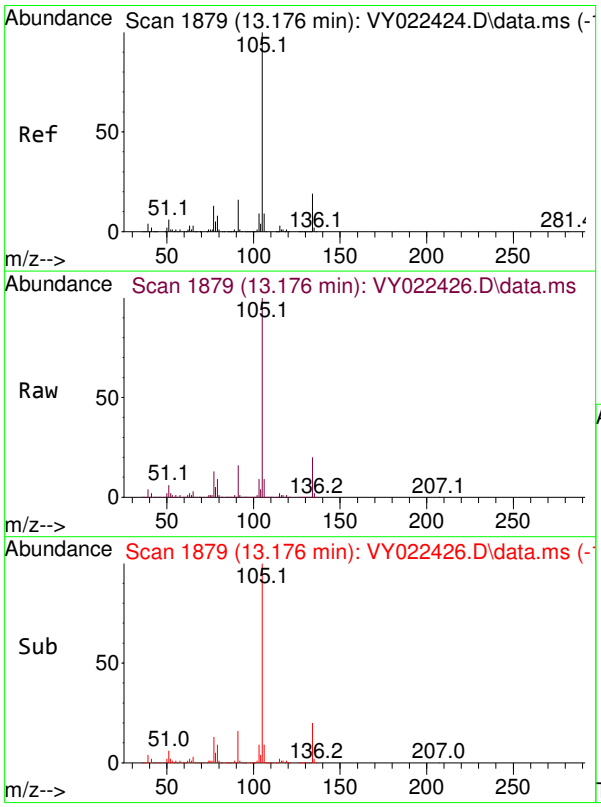


#84
1,2,4-Trimethylbenzene
Concen: 162.038 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion:105 Resp: 1831722

Ion	Ratio	Lower	Upper
105	100		
120	45.6	22.9	68.5





#85
sec-Butylbenzene
Concen: 157.674 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion:105 Resp: 237321

Ion	Ratio	Lower	Upper
105	100		
134	20.0	9.7	29.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
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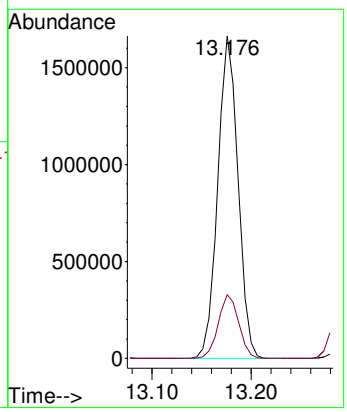
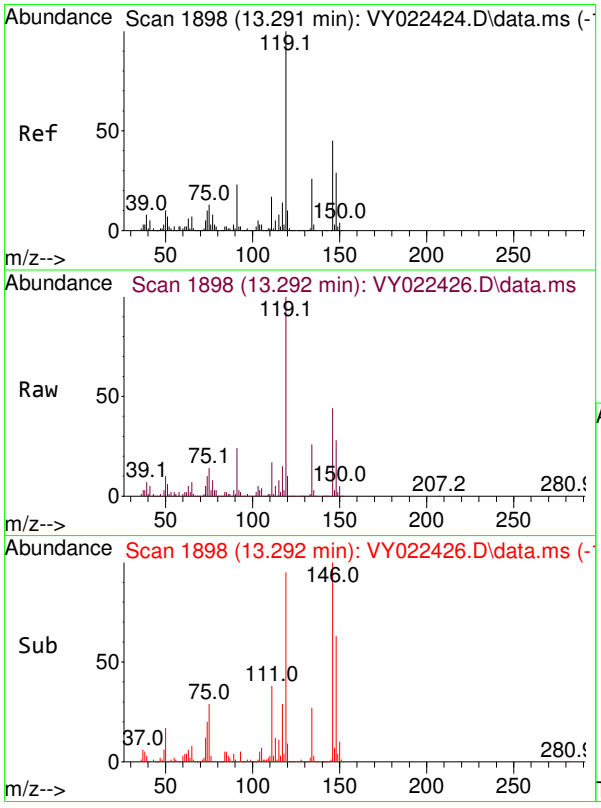
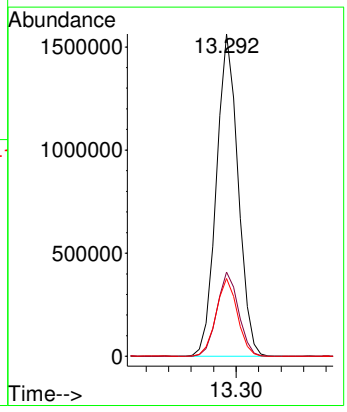


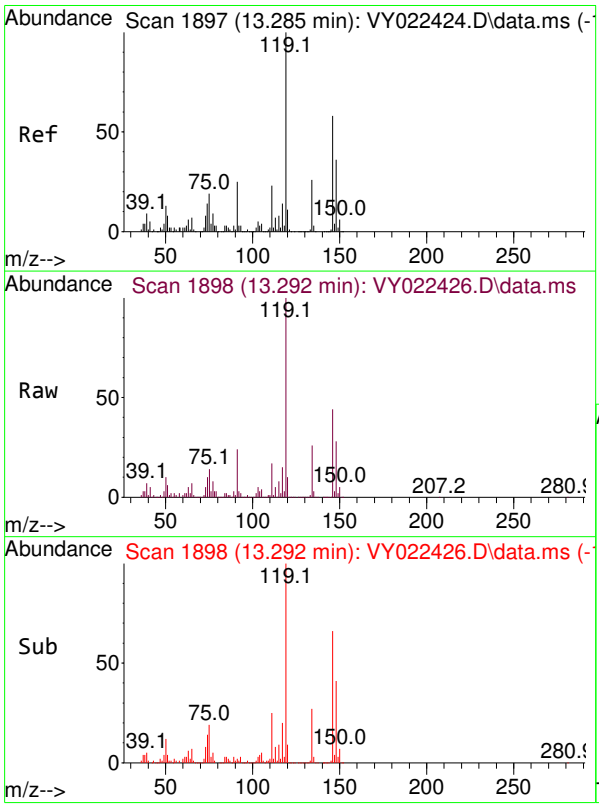


#86
p-Isopropyltoluene
Concen: 165.843 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion:119 Resp: 2084441

Ion	Ratio	Lower	Upper
119	100		
134	26.1	13.0	39.0
91	23.8	11.6	34.8





#87
1,3-Dichlorobenzene
Concen: 164.991 ug/l
RT: 13.292 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion:146 Resp: 102708

Ion	Ratio	Lower	Upper
146	100		
111	39.2	19.6	58.8
148	63.6	31.7	95.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
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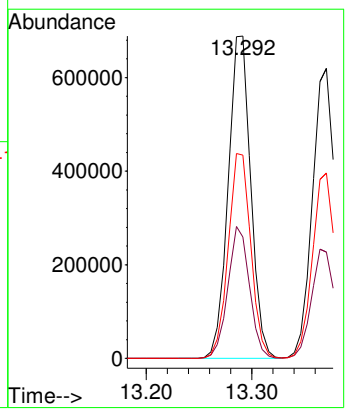
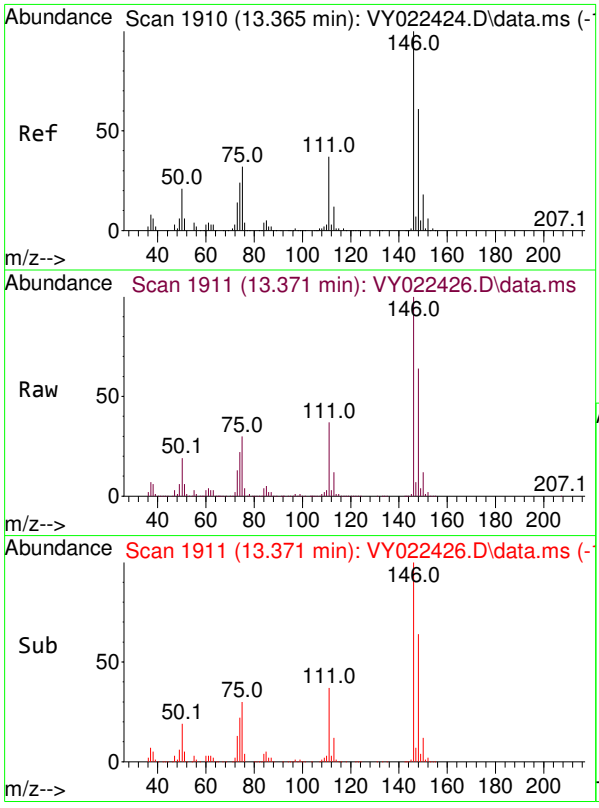
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

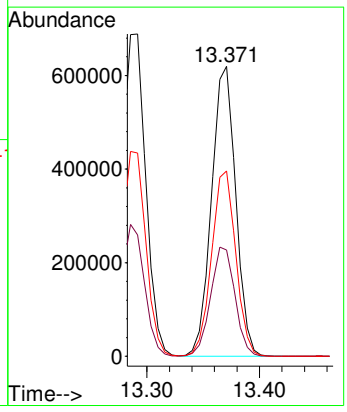


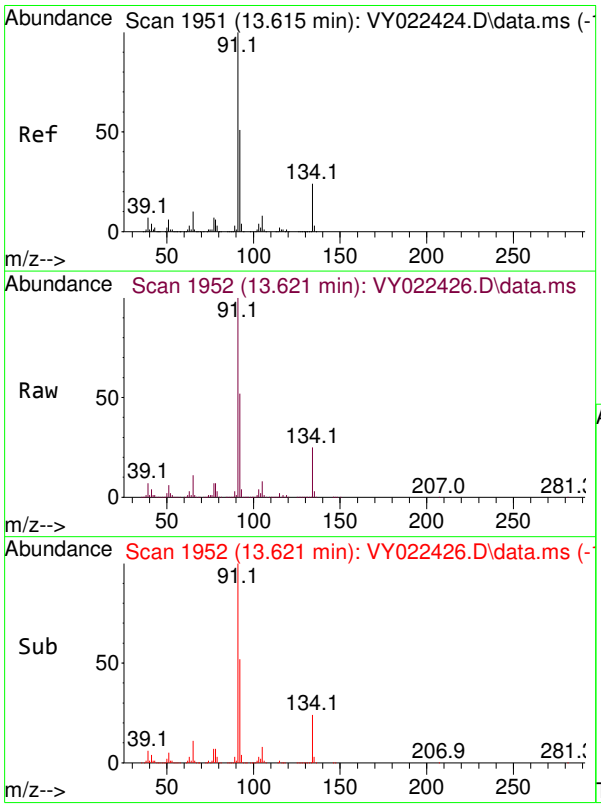


#88
1,4-Dichlorobenzene
Concen: 155.292 ug/l
RT: 13.371 min Scan# 1911
Delta R.T. 0.006 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion:146 Resp: 924346

Ion	Ratio	Lower	Upper
146	100		
111	37.9	18.7	56.1
148	64.0	31.4	94.3

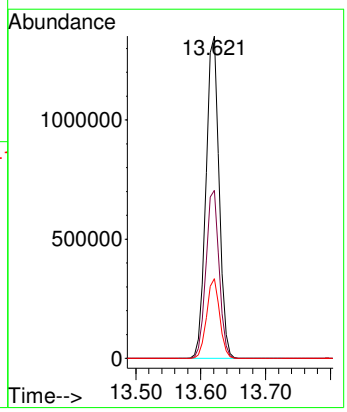




#89
n-Butylbenzene
Concen: 160.316 ug/l
RT: 13.621 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 91 Resp: 188927

Ion	Ratio	Lower	Upper
91	100		
92	52.4	25.9	77.6
134	24.5	12.4	37.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
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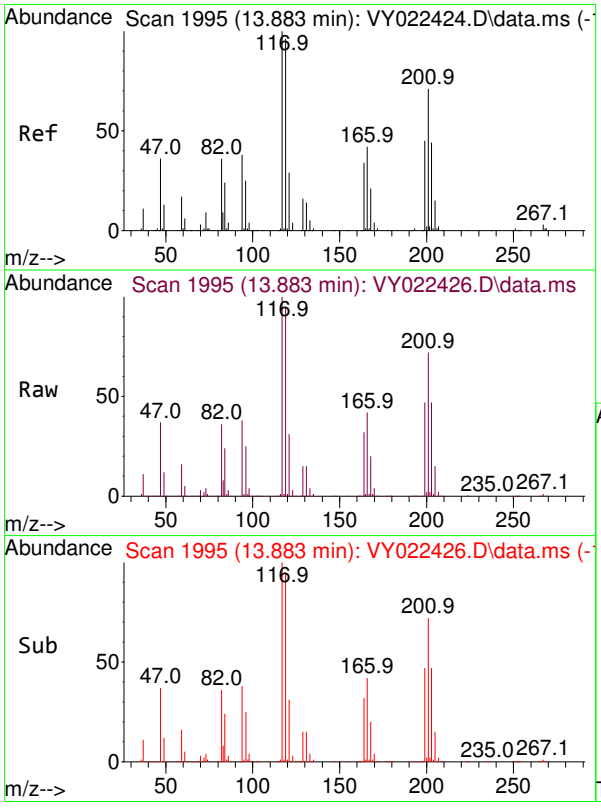
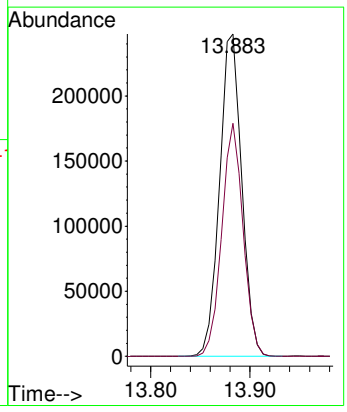
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

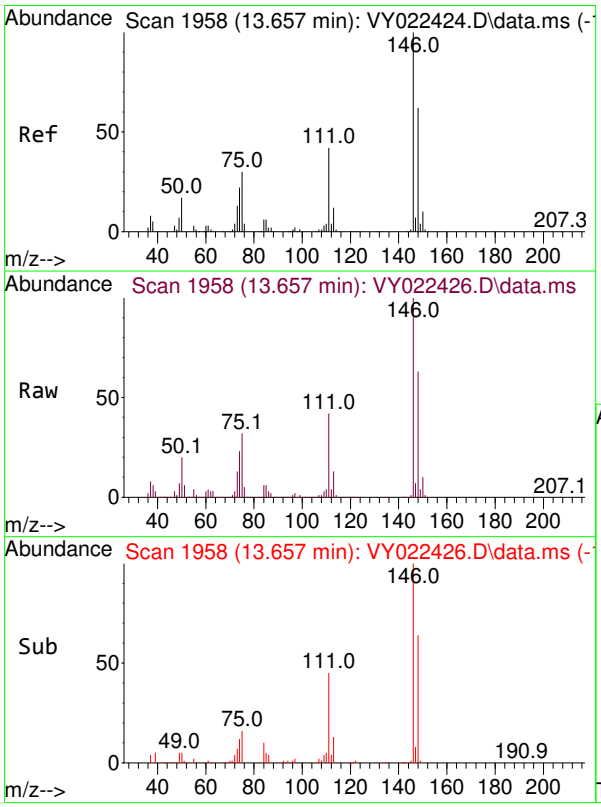


#90
Hexachloroethane
Concen: 154.660 ug/l
RT: 13.883 min Scan# 1995
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion:117 Resp: 386833

Ion	Ratio	Lower	Upper
117	100		
201	69.4	35.0	105.0

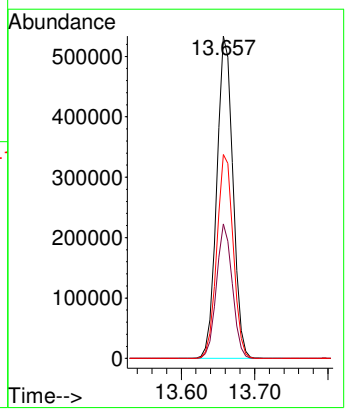




#91
1,2-Dichlorobenzene
Concen: 156.218 ug/l
RT: 13.657 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion:146 Resp: 81226

Ion	Ratio	Lower	Upper
146	100		
111	40.9	20.5	61.6
148	64.2	31.9	95.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

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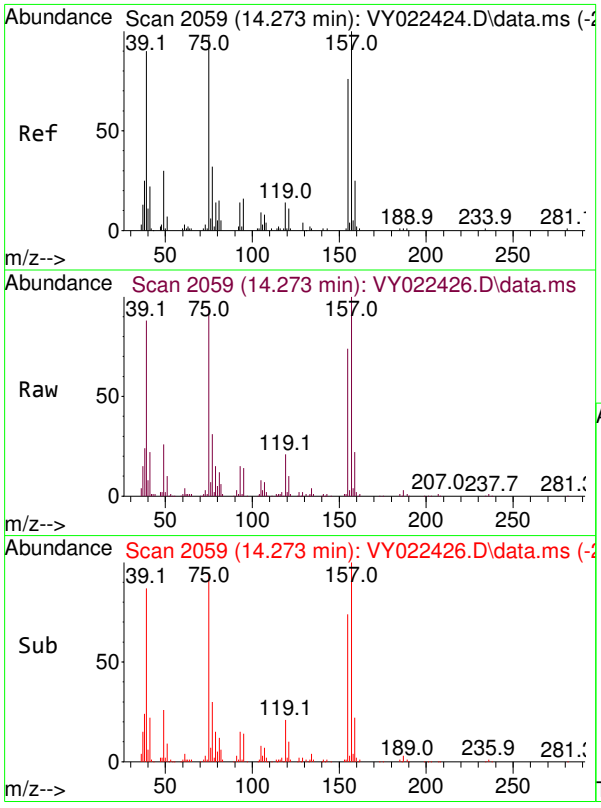
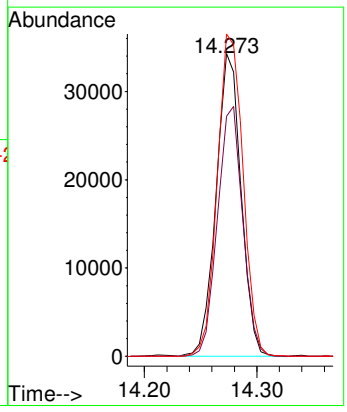
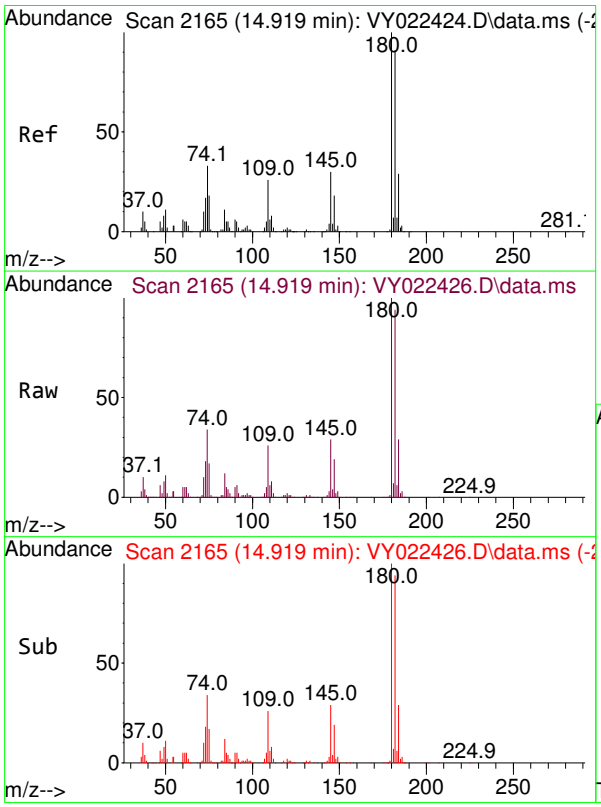


#92
1,2-Dibromo-3-Chloropropane
Concen: 150.784 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 75 Resp: 52777

Ion	Ratio	Lower	Upper
75	100		
155	83.4	42.3	126.8
157	109.9	54.4	163.3

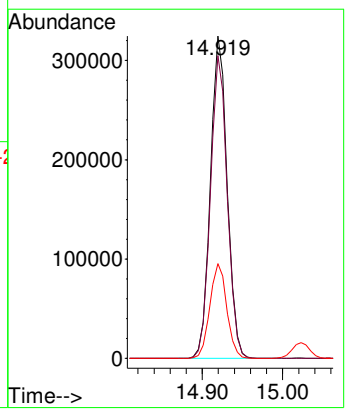




#93
1,2,4-Trichlorobenzene
Concen: 162.662 ug/l
RT: 14.919 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion:180 Resp: 46887

Ion	Ratio	Lower	Upper
180	100		
182	94.1	46.2	138.6
145	29.6	14.2	42.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
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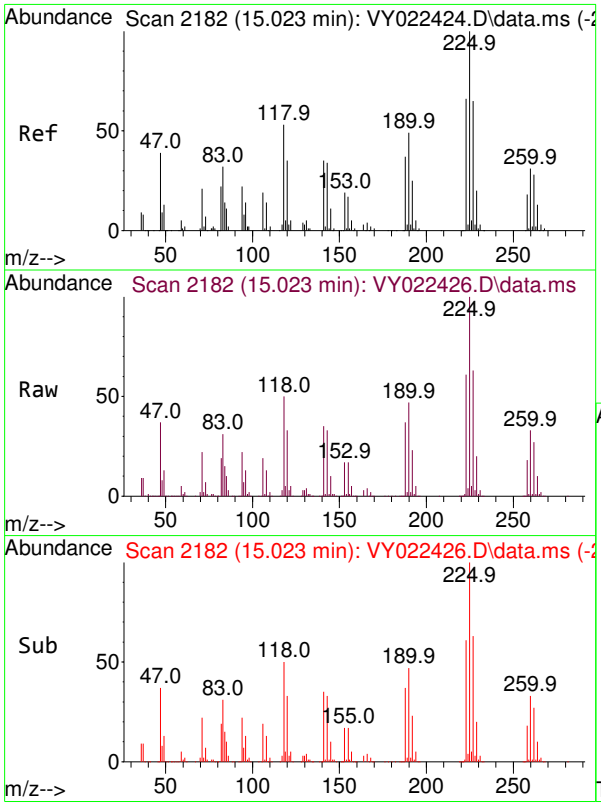
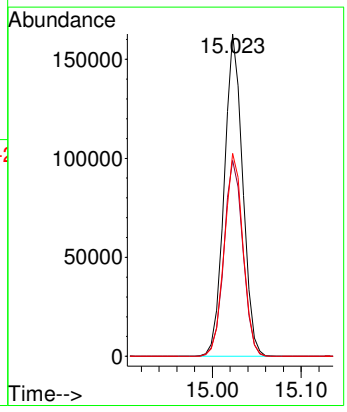
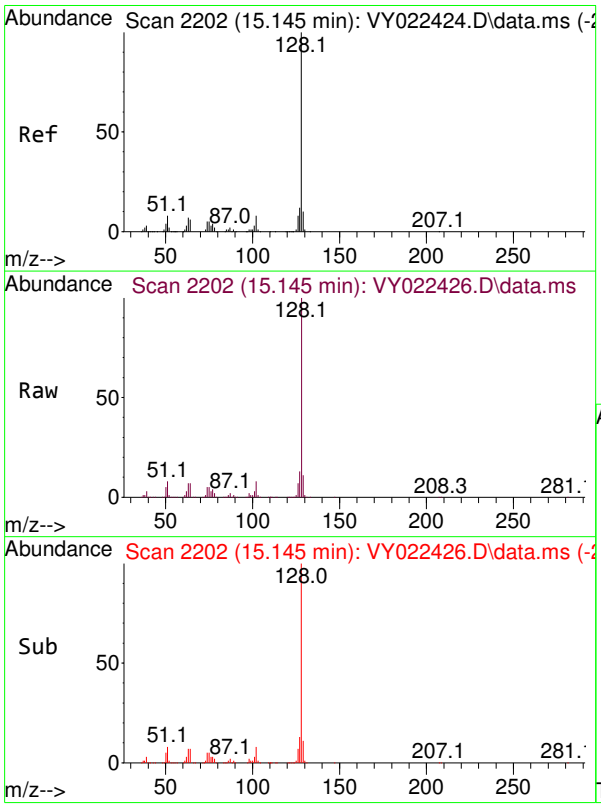


#94
Hexachlorobutadiene
Concen: 156.325 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion:225 Resp: 236480

Ion	Ratio	Lower	Upper
225	100		
223	62.3	32.6	97.7
227	63.7	33.0	99.0

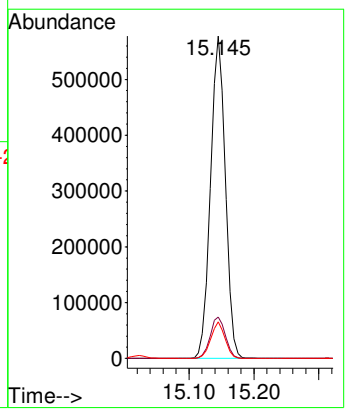




#95
Naphthalene
Concen: 171.849 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion:128 Resp: 91576

Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.2	15.4
129	10.9	8.5	12.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

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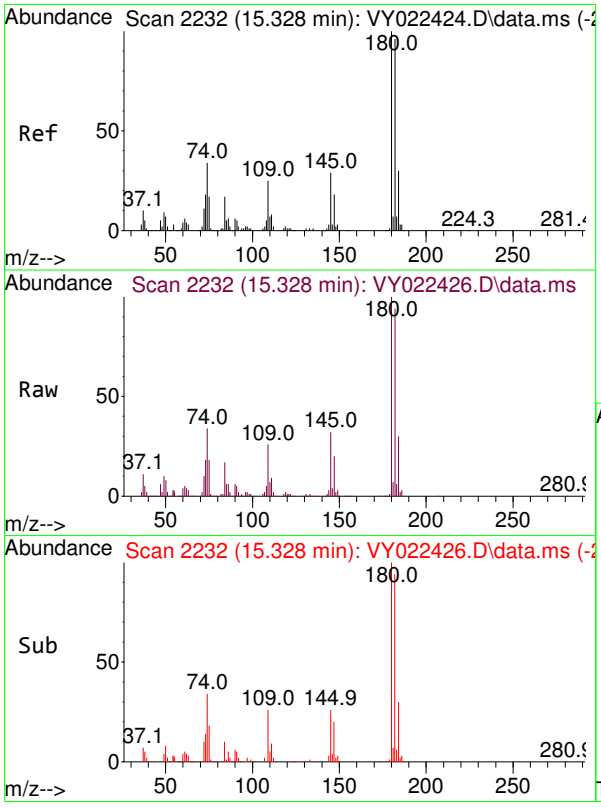
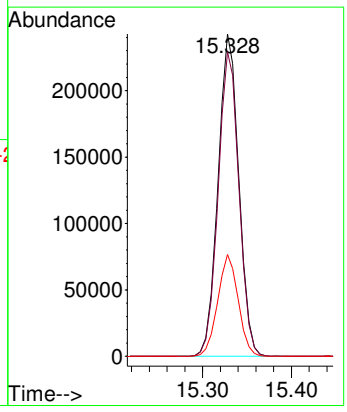


#96
1,2,3-Trichlorobenzene
Concen: 167.307 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion:180 Resp: 395519

Ion	Ratio	Lower	Upper
180	100		
182	94.6	48.1	144.3
145	31.2	14.9	44.5



ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022428.D
Acq On : 27 May 2025 11:56
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Manual Integrations APPROVED
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

Quant Time: May 28 10:39:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	253507	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	425137	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	371169	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	177242	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	135927	50.905	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 101.800%			
35) Dibromofluoromethane	7.634	113	126788	50.924	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 101.840%			
50) Toluene-d8	10.109	98	516469	50.886	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 101.780%			
62) 4-Bromofluorobenzene	12.408	95	155747	50.731	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 101.460%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	103680	42.867	ug/l	98
3) Chloromethane	2.068	50	343646	57.762	ug/l	96
4) Vinyl Chloride	2.202	62	378150	52.322	ug/l	99
5) Bromomethane	2.598	94	378531	57.634	ug/l	100
6) Chloroethane	2.733	64	272398	57.677	ug/l	99
7) Trichlorofluoromethane	3.050	101	341076	55.933	ug/l	98
8) Diethyl Ether	3.458	74	74240	52.801	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.818	101	125740	47.001	ug/l	99
10) Methyl Iodide	4.007	142	147302	48.805	ug/l	100
11) Tert butyl alcohol	4.891	59	53913	286.443	ug/l	98
12) 1,1-Dichloroethene	3.787	96	129146	48.624	ug/l	96
13) Acrolein	3.653	56	75220	266.723	ug/l	100
14) Allyl chloride	4.385	41	206704	51.736	ug/l	99
15) Acrylonitrile	5.061	53	157491	277.887	ug/l	100
16) Acetone	3.885	43	127318	290.164	ug/l	93
17) Carbon Disulfide	4.110	76	422273	49.820	ug/l	100
18) Methyl Acetate	4.385	43	98344	59.833	ug/l	97
19) Methyl tert-butyl Ether	5.122	73	376709	53.423	ug/l	99
20) Methylene Chloride	4.616	84	147382	47.566	ug/l	96
21) trans-1,2-Dichloroethene	5.116	96	149045	51.401	ug/l	96
22) Diisopropyl ether	6.025	45	453438	51.423	ug/l	98
23) Vinyl Acetate	5.964	43	1330055	262.697	ug/l	100
24) 1,1-Dichloroethane	5.915	63	270725	51.958	ug/l	99
25) 2-Butanone	6.896	43	208354	285.123	ug/l	98
26) 2,2-Dichloropropane	6.890	77	238523	50.556	ug/l	99
27) cis-1,2-Dichloroethene	6.896	96	171895	51.208	ug/l	99
28) Bromochloromethane	7.250	49	114068	52.427	ug/l	99
29) Tetrahydrofuran	7.268	42	136796	280.691	ug/l	99
30) Chloroform	7.427	83	263982	51.416	ug/l	99
31) Cyclohexane	7.701	56	228904	44.566	ug/l	98
32) 1,1,1-Trichloroethane	7.622	97	234335	50.290	ug/l	98
36) 1,1-Dichloropropene	7.835	75	198705	50.295	ug/l	99
37) Ethyl Acetate	6.988	43	91969	54.775	ug/l	98
38) Carbon Tetrachloride	7.823	117	204881	49.782	ug/l	99
39) Methylcyclohexane	9.109	83	253073	48.189	ug/l	99
40) Benzene	8.079	78	609847	51.876	ug/l	98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022428.D
Acq On : 27 May 2025 11:56
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Manual Integrations APPROVED
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

Quant Time: May 28 10:39:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.220	41	49200m	48.279	ug/l		
42) 1,2-Dichloroethane	8.158	62	162203	52.242	ug/l		99
43) Isopropyl Acetate	8.201	43	199246	54.305	ug/l		99
44) Trichloroethene	8.866	130	151238	52.041	ug/l		98
45) 1,2-Dichloropropane	9.146	63	140797	50.975	ug/l		100
46) Dibromomethane	9.231	93	81139	52.586	ug/l		99
47) Bromodichloromethane	9.426	83	205314	51.745	ug/l		99
48) Methyl methacrylate	9.225	41	95846	56.276	ug/l		97
49) 1,4-Dioxane	9.244	88	17918	1051.366	ug/l		94
51) 4-Methyl-2-Pentanone	10.000	43	519609	287.032	ug/l		100
52) Toluene	10.170	92	387936	52.832	ug/l		99
53) t-1,3-Dichloropropene	10.396	75	199925	54.094	ug/l		94
54) cis-1,3-Dichloropropene	9.859	75	228509	52.618	ug/l		100
55) 1,1,2-Trichloroethane	10.573	97	103722	53.168	ug/l		99
56) Ethyl methacrylate	10.438	69	156757	55.994	ug/l		100
57) 1,3-Dichloropropane	10.719	76	180948	52.634	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.713	63	362054	259.493	ug/l		100
59) 2-Hexanone	10.762	43	347563	292.964	ug/l		99
60) Dibromochloromethane	10.914	129	133735	53.666	ug/l		99
61) 1,2-Dibromoethane	11.018	107	96584	54.130	ug/l		98
64) Tetrachloroethene	10.646	164	153515	48.564	ug/l		95
65) Chlorobenzene	11.444	112	409198	51.703	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.518	131	137345	51.219	ug/l		100
67) Ethyl Benzene	11.524	91	749047	50.971	ug/l		98
68) m/p-Xylenes	11.633	106	571164	102.513	ug/l		100
69) o-Xylene	11.957	106	268131	51.205	ug/l		100
70) Styrene	11.969	104	456865	52.397	ug/l		100
71) Bromoform	12.133	173	73628	52.420	ug/l	#	98
73) Isopropylbenzene	12.255	105	698311	50.060	ug/l		100
74) N-amyl acetate	12.072	43	182818	53.559	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.505	83	117150	53.303	ug/l		99
76) 1,2,3-Trichloropropane	12.560	75	93352m	52.582	ug/l		
77) Bromobenzene	12.536	156	151539	50.481	ug/l		98
78) n-propylbenzene	12.597	91	853326	50.973	ug/l		99
79) 2-Chlorotoluene	12.682	91	455944	50.314	ug/l		100
80) 1,3,5-Trimethylbenzene	12.737	105	559964	51.376	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.304	75	40088	51.064	ug/l		98
82) 4-Chlorotoluene	12.780	91	475462	50.944	ug/l		100
83) tert-Butylbenzene	12.999	119	505382	51.321	ug/l		100
84) 1,2,4-Trimethylbenzene	13.042	105	562945	51.325	ug/l		100
85) sec-Butylbenzene	13.176	105	755958	51.763	ug/l		99
86) p-Isopropyltoluene	13.292	119	638231	52.334	ug/l		100
87) 1,3-Dichlorobenzene	13.292	146	310435	51.396	ug/l		99
88) 1,4-Dichlorobenzene	13.371	146	298140	51.622	ug/l		100
89) n-Butylbenzene	13.615	91	601455	52.600	ug/l		100
90) Hexachloroethane	13.883	117	125908	51.881	ug/l		100
91) 1,2-Dichlorobenzene	13.657	146	255789	50.701	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	17817	52.462	ug/l		98
93) 1,2,4-Trichlorobenzene	14.919	180	146574	52.407	ug/l		98
94) Hexachlorobutadiene	15.023	225	76816	52.335	ug/l		97
95) Naphthalene	15.145	128	283477	54.826	ug/l		100
96) 1,2,3-Trichlorobenzene	15.328	180	123635	53.900	ug/l		98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022428.D
Acq On : 27 May 2025 11:56
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Manual Integrations APPROVED

Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

Quant Time: May 28 10:39:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

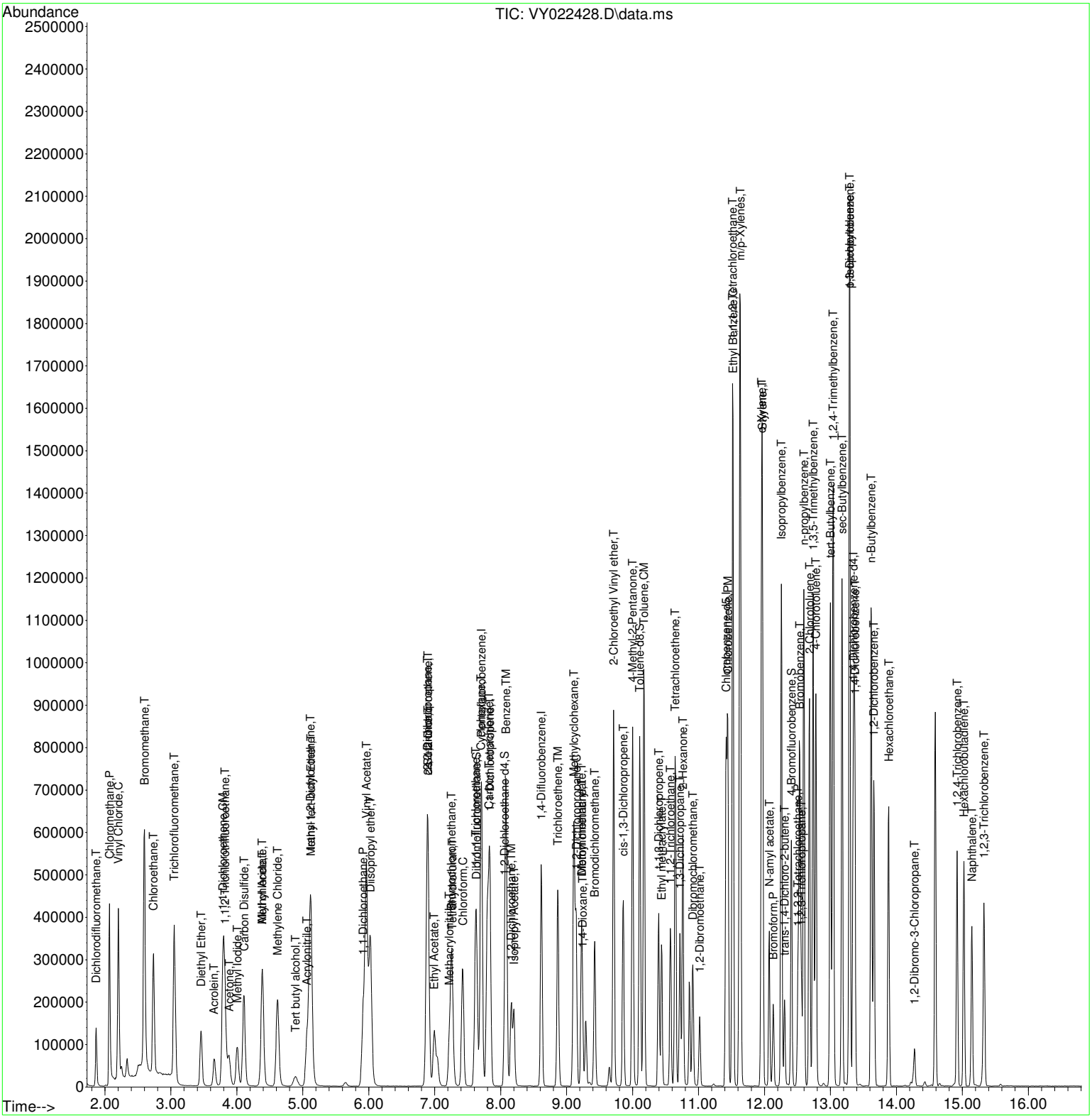
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022428.D
Acq On : 27 May 2025 11:56
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

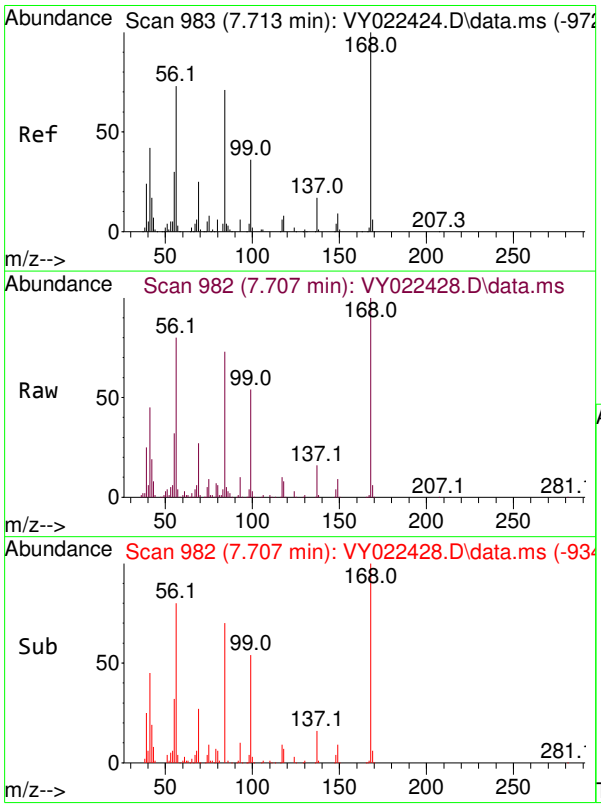
Quant Time: May 28 10:39:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Manual Integrations APPROVED

Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

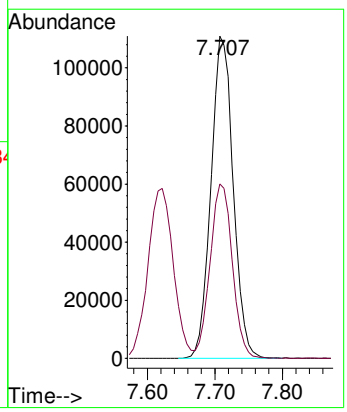
Tgt Ion:168 Resp: 25350

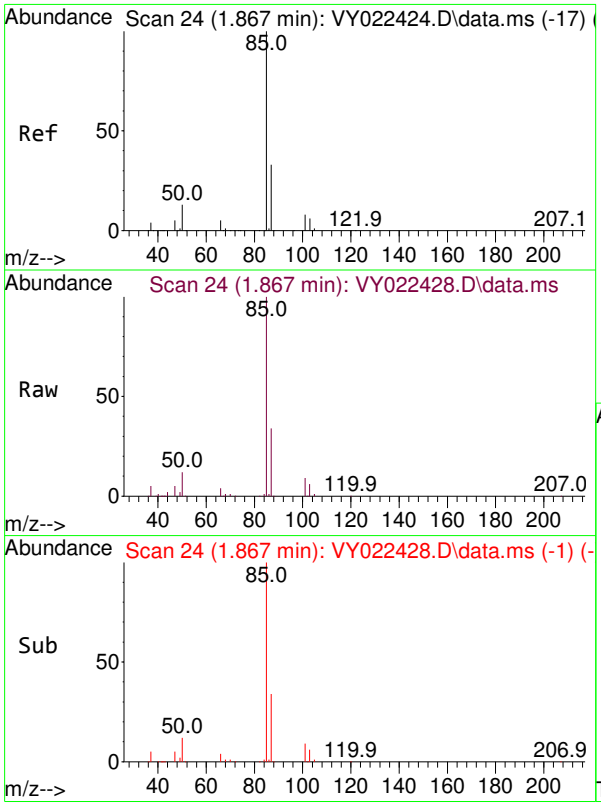
Ion	Ratio	Lower	Upper
168	100		
99	54.1	44.7	67.1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Manual Integrations
APPROVED

Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

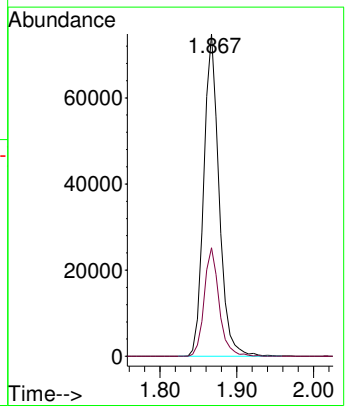


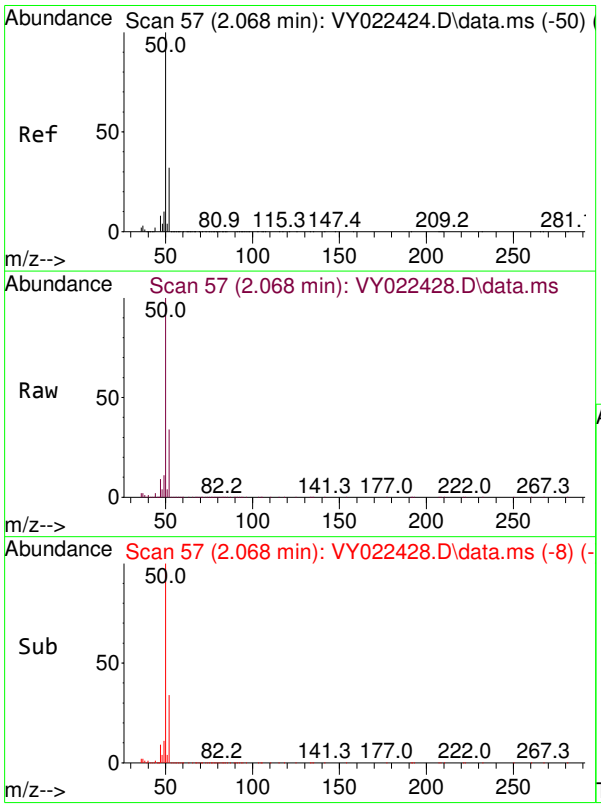


#2
Dichlorodifluoromethane
Concen: 42.867 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 85 Resp: 103680

Ion	Ratio	Lower	Upper
85	100		
87	33.7	16.4	49.2





#3
Chloromethane
Concen: 57.762 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

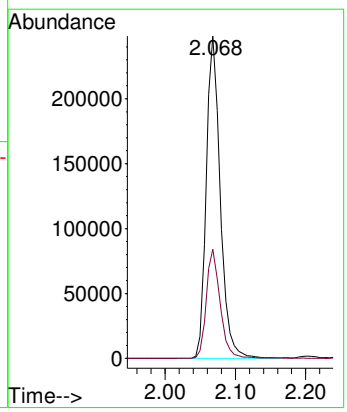
Tgt Ion: 50 Resp: 34364

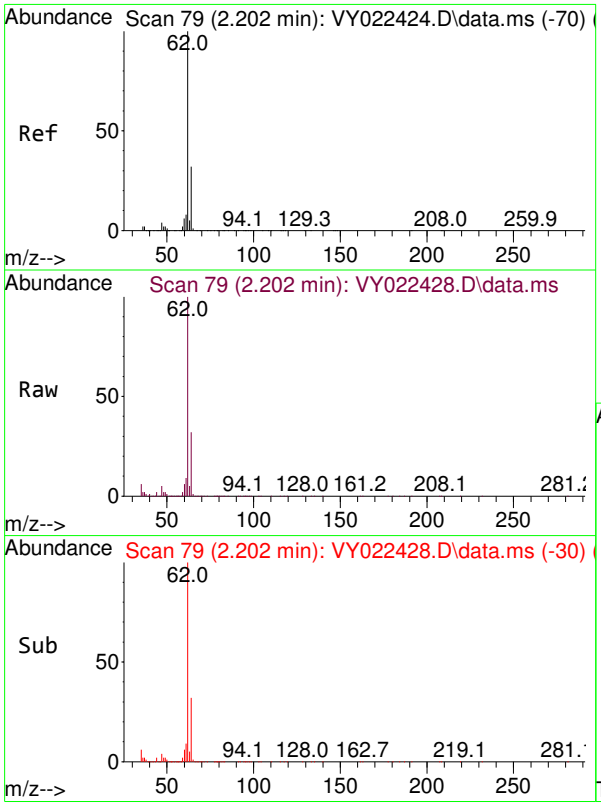
Ion	Ratio	Lower	Upper
50	100		
52	33.9	25.5	38.3

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Manual Integrations
APPROVED

Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

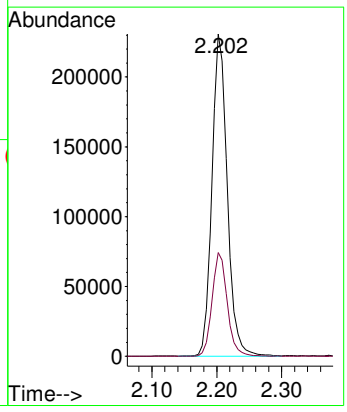


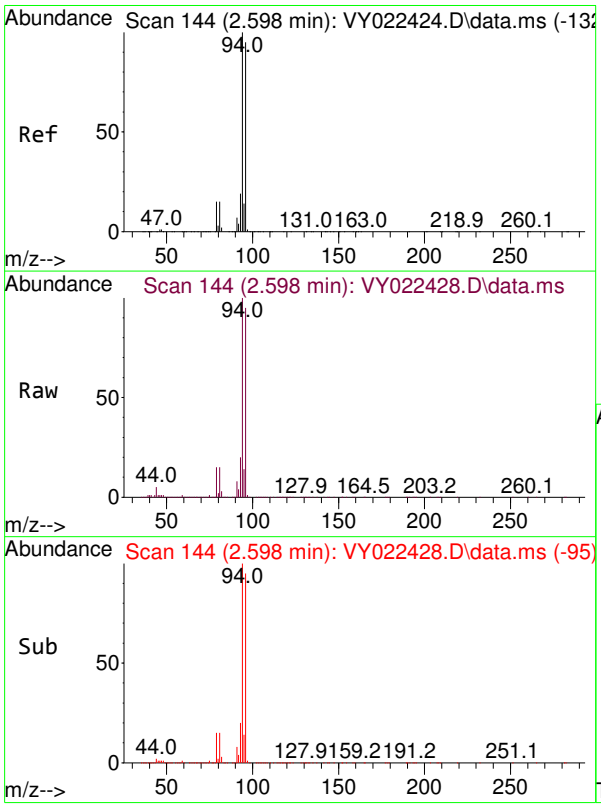


#4
Vinyl Chloride
Concen: 52.322 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 62 Resp: 378150

Ion	Ratio	Lower	Upper
62	100		
64	32.2	26.0	39.0





#5
Bromomethane
Concen: 57.634 ug/l
RT: 2.598 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

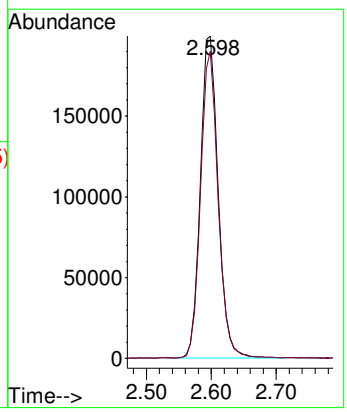
Tgt Ion: 94 Resp: 37853

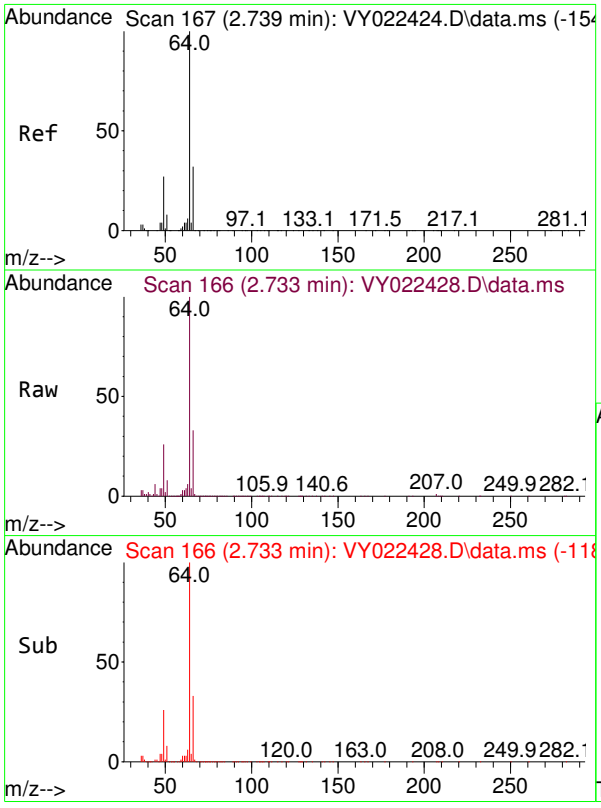
Ion	Ratio	Lower	Upper
94	100		
96	95.2	76.0	114.0

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Manual Integrations
APPROVED

Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

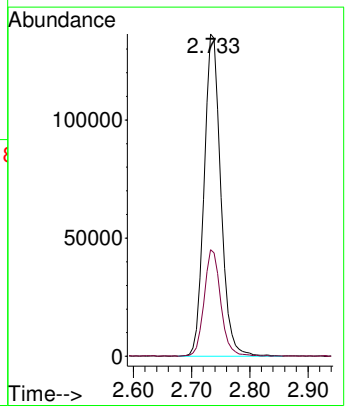


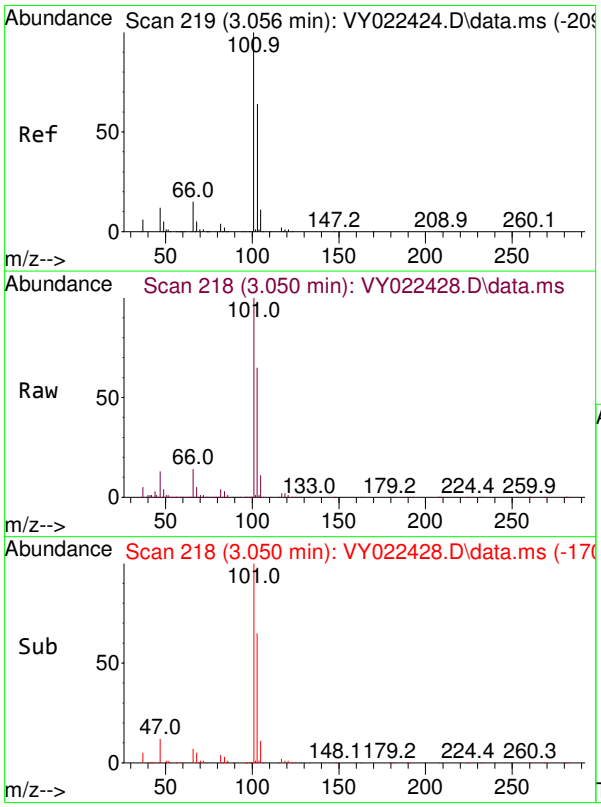


#6
Chloroethane
Concen: 57.677 ug/l
RT: 2.733 min Scan# 166
Delta R.T. -0.006 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 64 Resp: 272398

Ion	Ratio	Lower	Upper
64	100		
66	33.1	25.9	38.9





#7
Trichlorofluoromethane
Concen: 55.933 ug/l
RT: 3.050 min Scan# 2
Delta R.T. -0.006 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

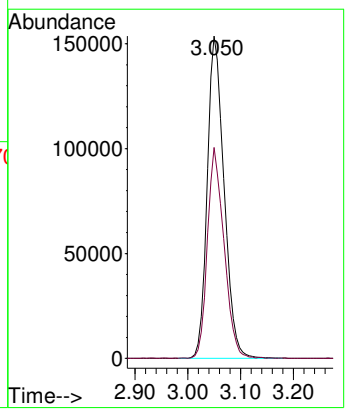
Tgt Ion:101 Resp: 34107

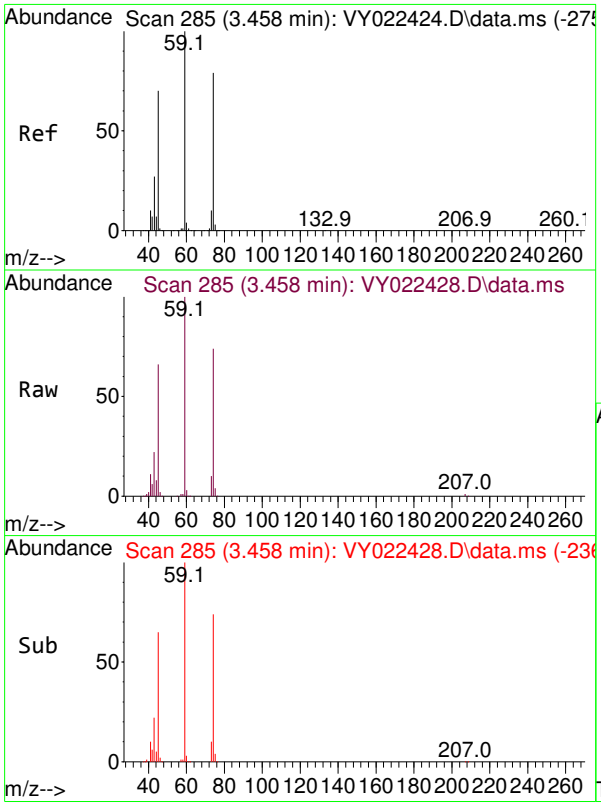
Ion	Ratio	Lower	Upper
101	100		
103	65.4	50.9	76.3

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Manual Integrations
APPROVED

Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

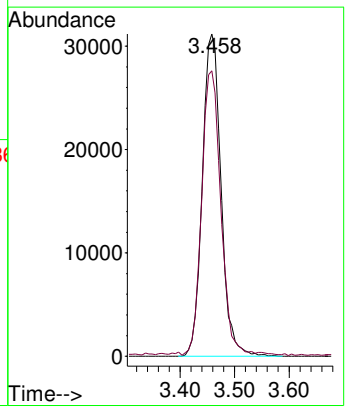


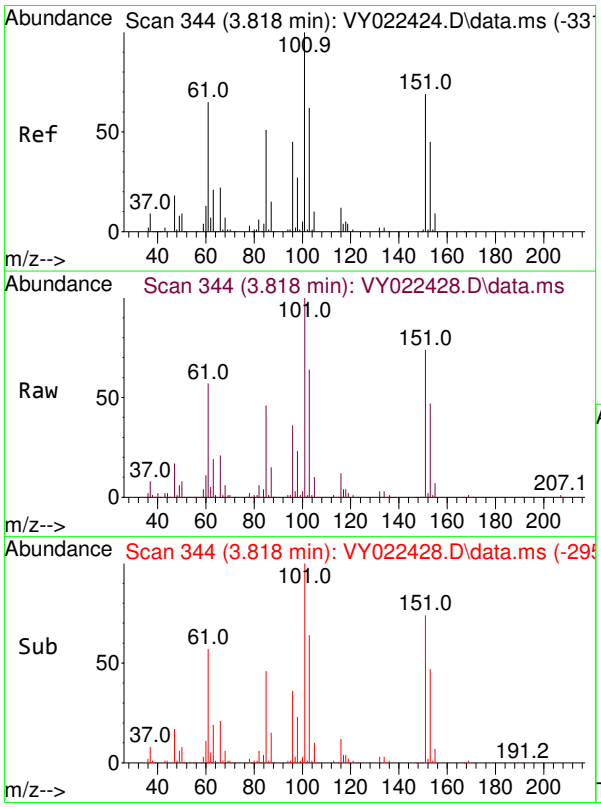


#8
Diethyl Ether
Concen: 52.801 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 74 Resp: 74240

Ion	Ratio	Lower	Upper
74	100		
45	90.9	44.9	134.5





#9
1,1,2-Trichlorotrifluoroethane
Concen: 47.001 ug/l
RT: 3.818 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

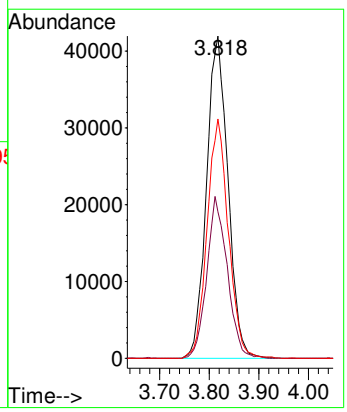
Tgt Ion:101 Resp: 12574

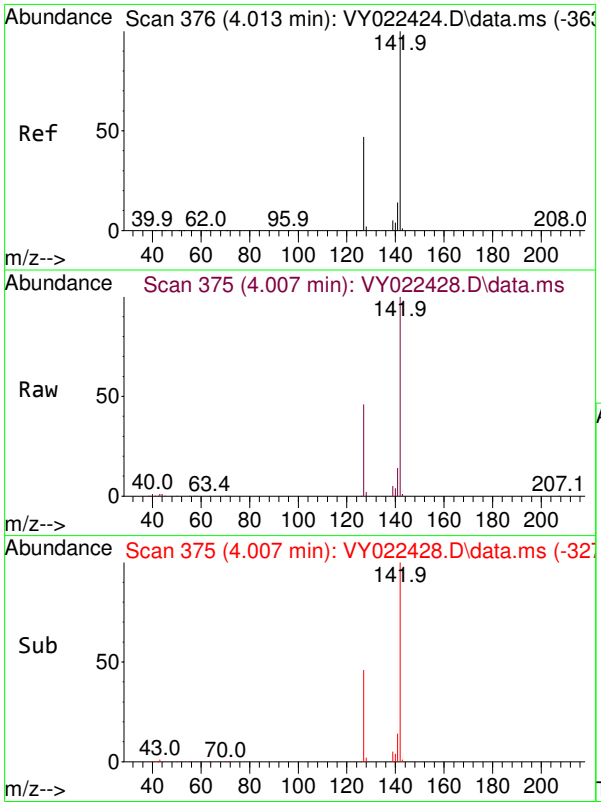
Ion	Ratio	Lower	Upper
101	100		
85	48.1	39.2	58.8
151	73.8	58.8	88.2

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Manual Integrations
APPROVED

Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

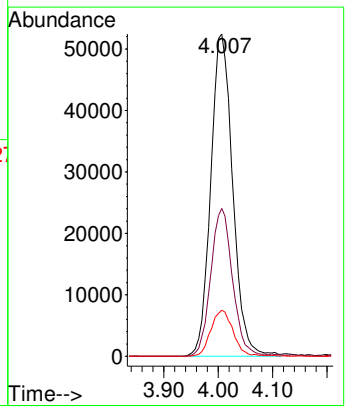


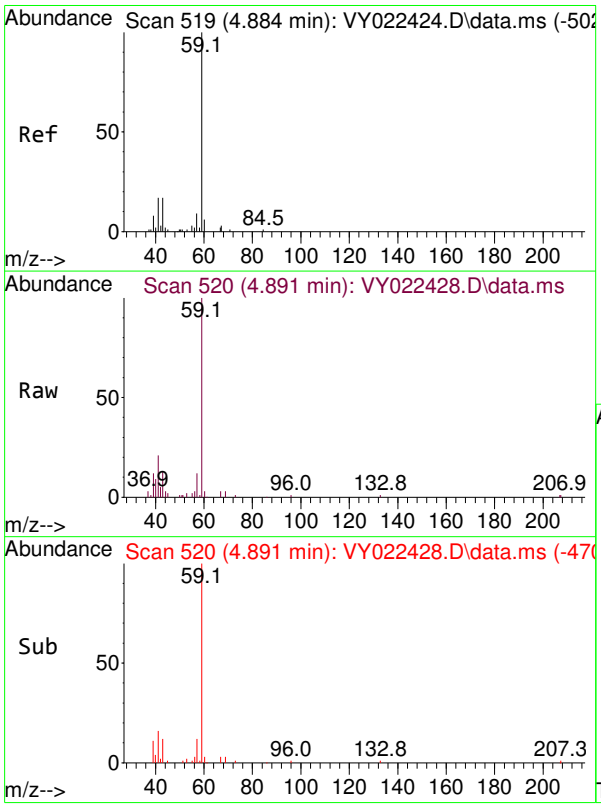


#10
Methyl Iodide
Concen: 48.805 ug/l
RT: 4.007 min Scan# 375
Delta R.T. -0.006 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion:142 Resp: 147302

Ion	Ratio	Lower	Upper
142	100		
127	45.5	36.2	54.4
141	14.6	11.6	17.4





#11
Tert butyl alcohol
Concen: 286.443 ug/l
RT: 4.891 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

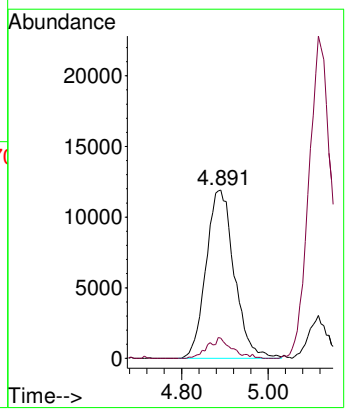
Tgt Ion: 59 Resp: 5391

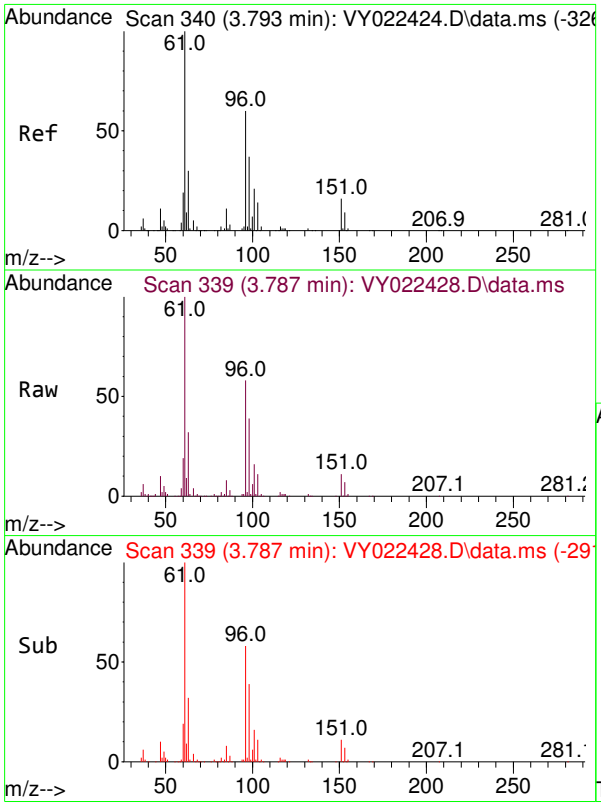
Ion	Ratio	Lower	Upper
59	100		
57	10.6	9.1	13.7

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Manual Integrations
APPROVED

Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

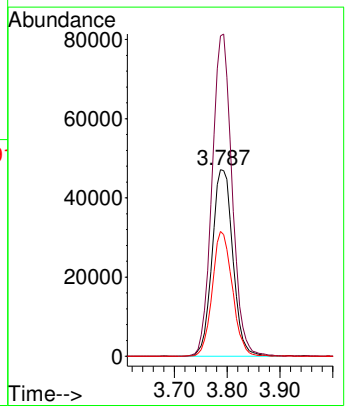


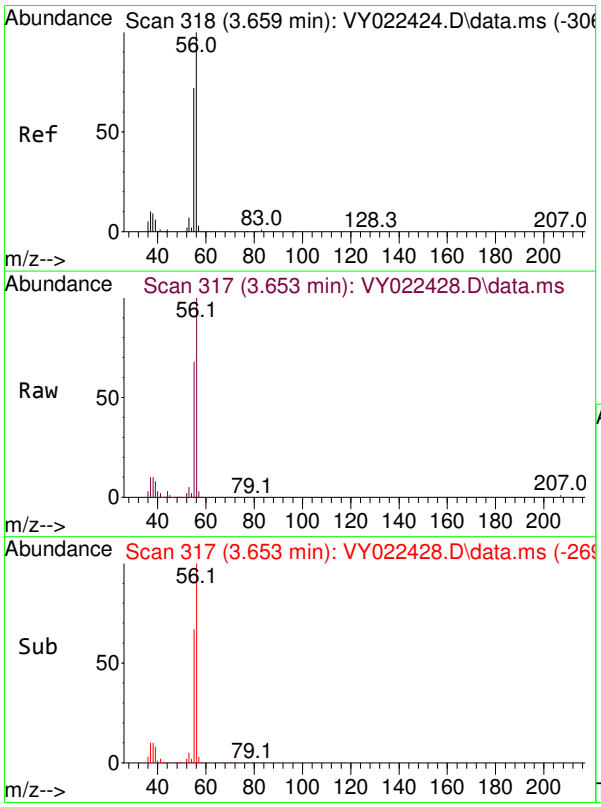


#12
1,1-Dichloroethene
Concen: 48.624 ug/l
RT: 3.787 min Scan# 339
Delta R.T. -0.006 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 96 Resp: 129146

Ion	Ratio	Lower	Upper
96	100		
61	171.6	134.1	201.1
98	66.8	50.2	75.2





#13
Acrolein
Concen: 266.723 ug/l
RT: 3.653 min Scan# 3
Delta R.T. -0.006 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 56 Resp: 7522

Ion	Ratio	Lower	Upper
56	100		
55	70.6	56.5	84.7

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Manual Integrations
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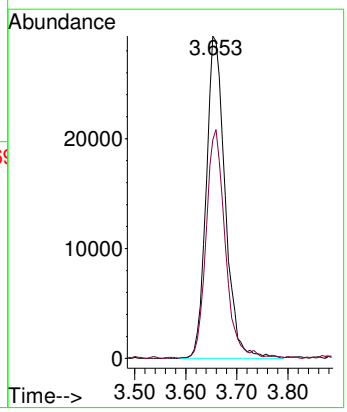
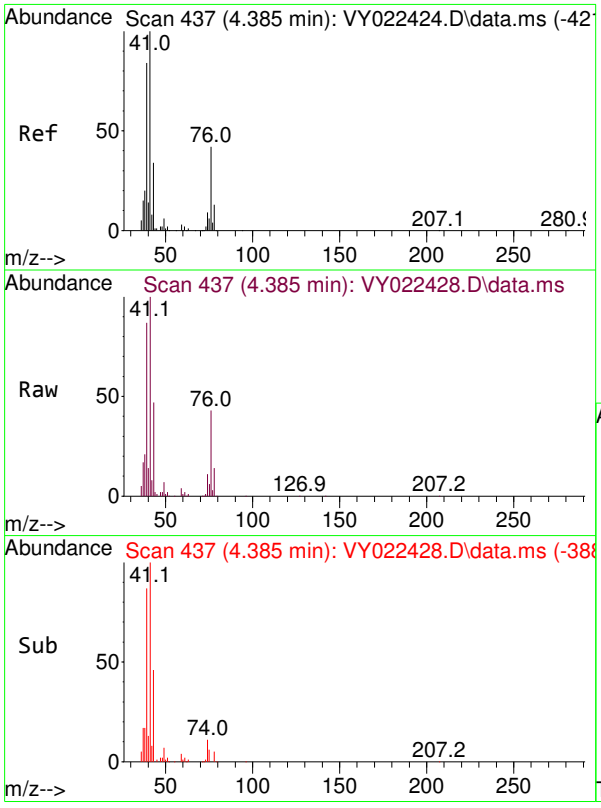
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

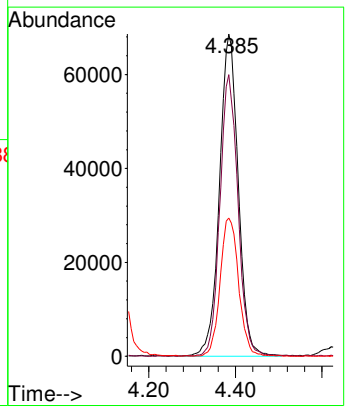


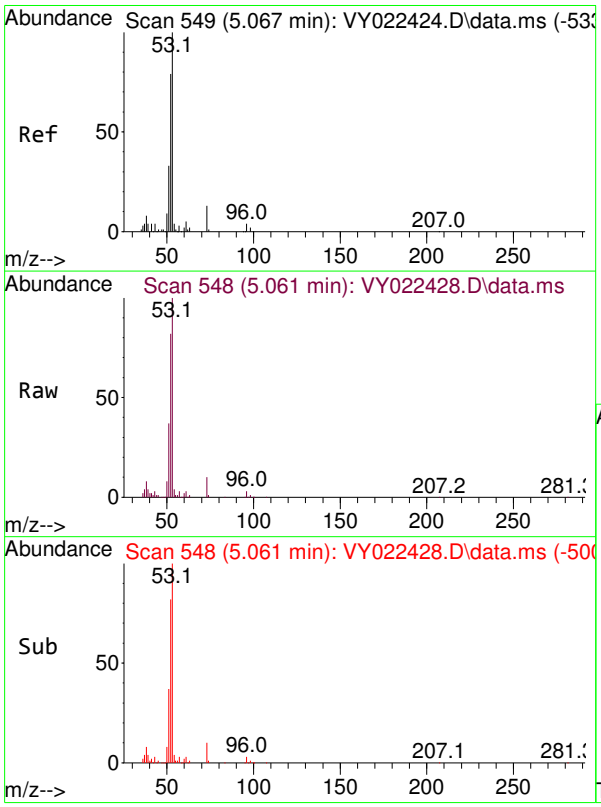


#14
Allyl chloride
Concen: 51.736 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 41 Resp: 206704

Ion	Ratio	Lower	Upper
41	100		
39	84.3	66.6	100.0
76	42.4	33.7	50.5





#15
Acrylonitrile
Concen: 277.887 ug/l
RT: 5.061 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 53 Resp: 15749

Ion	Ratio	Lower	Upper
53	100		
52	81.3	65.1	97.7
51	37.7	30.0	45.0

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Manual Integrations
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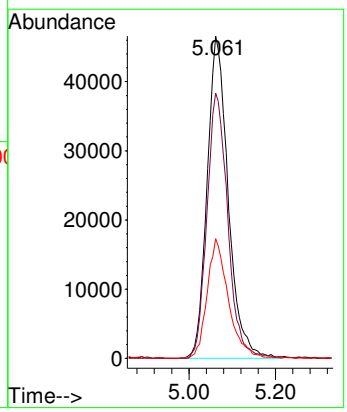
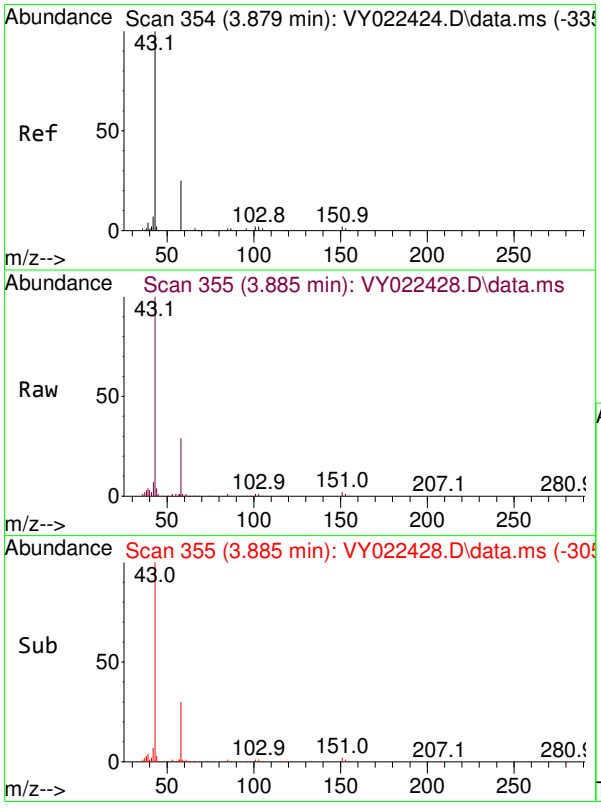
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

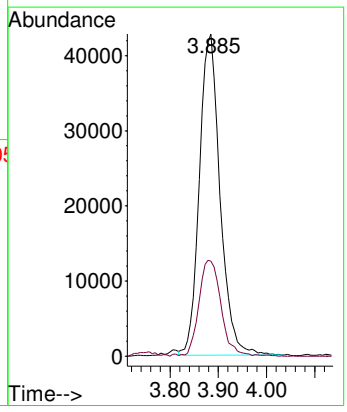


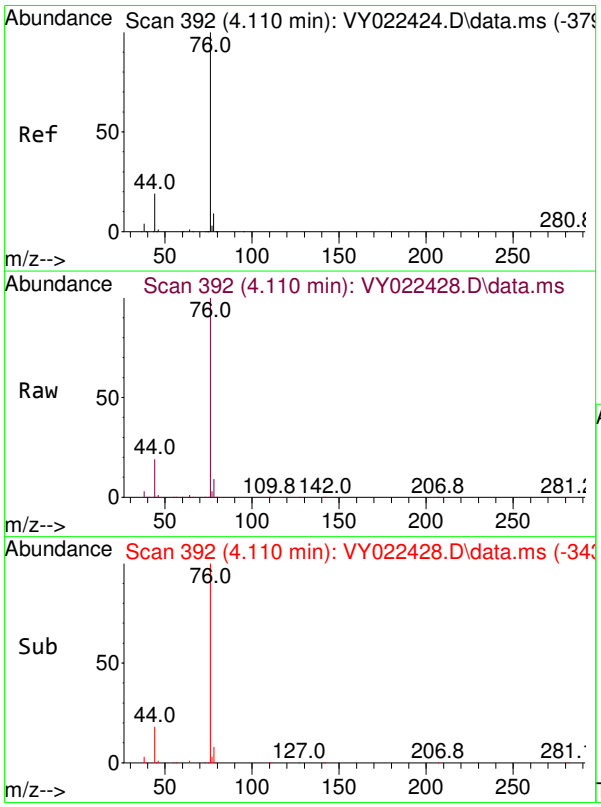


#16
Acetone
Concen: 290.164 ug/l
RT: 3.885 min Scan# 355
Delta R.T. 0.006 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 43 Resp: 127318

Ion	Ratio	Lower	Upper
43	100		
58	29.4	20.6	30.8





#17
Carbon Disulfide
Concen: 49.820 ug/l
RT: 4.110 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 76 Resp: 42227

Ion	Ratio	Lower	Upper
76	100		
78	8.9	7.2	10.8

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

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Reviewed By :Amit Patel 05/28/2025
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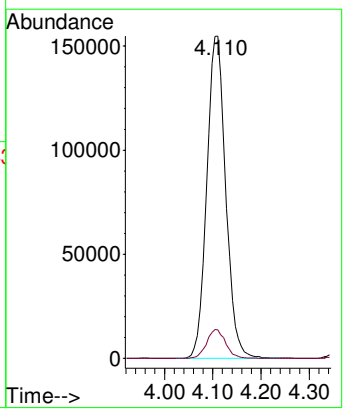
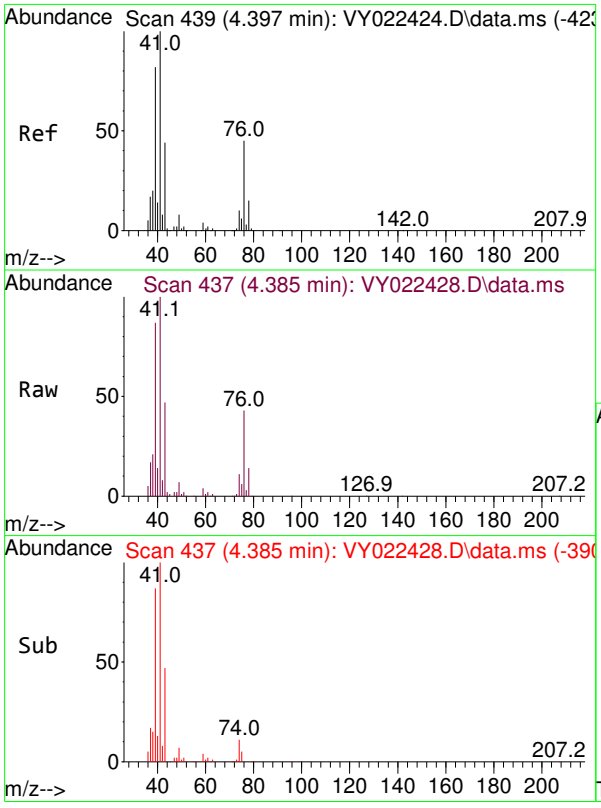
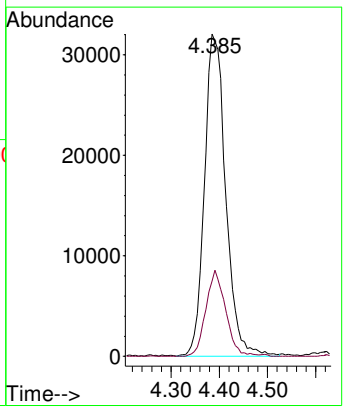


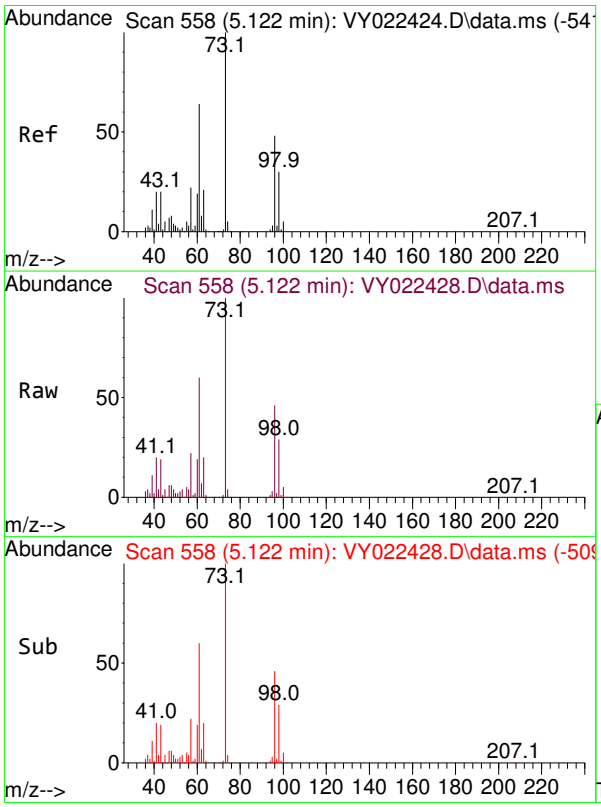


#18
Methyl Acetate
Concen: 59.833 ug/l
RT: 4.385 min Scan# 437
Delta R.T. -0.012 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 43 Resp: 98344

Ion	Ratio	Lower	Upper
43	100		
74	24.8	21.2	31.8





#19
Methyl tert-butyl Ether
Concen: 53.423 ug/l
RT: 5.122 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 73 Resp: 37670

Ion	Ratio	Lower	Upper
73	100		
57	21.6	17.7	26.5

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

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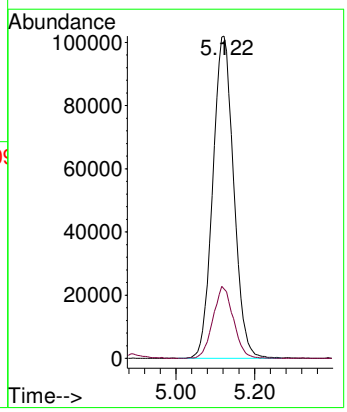
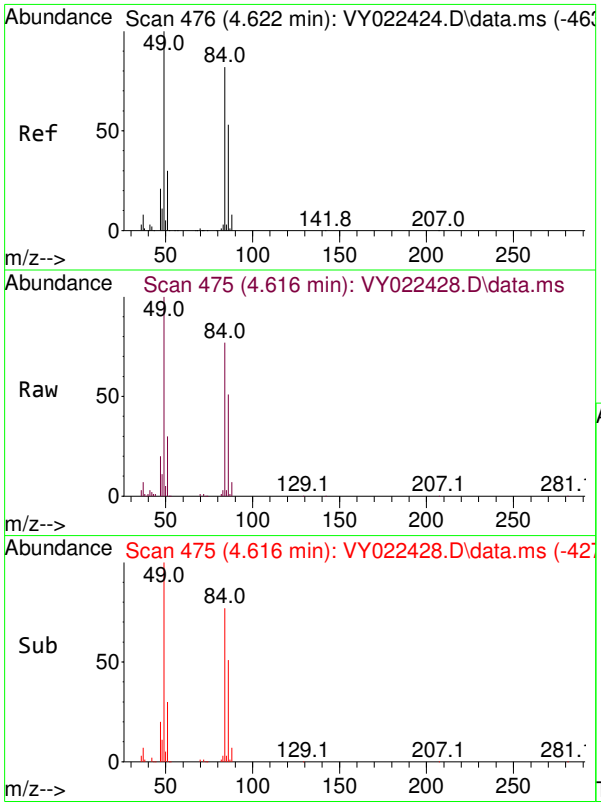
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

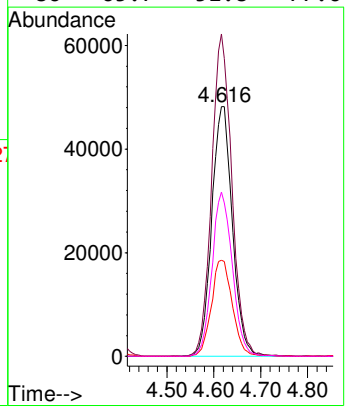


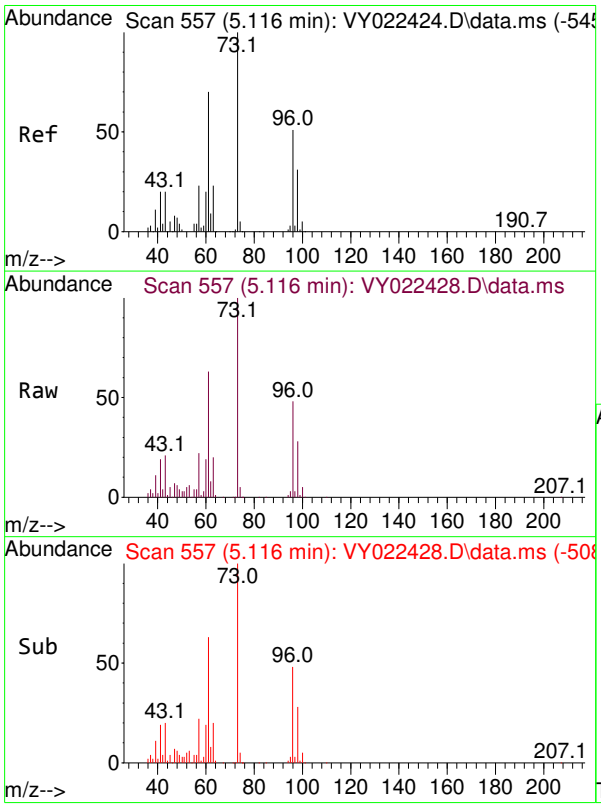


#20
Methylene Chloride
Concen: 47.566 ug/l
RT: 4.616 min Scan# 475
Delta R.T. -0.006 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 84 Resp: 147382

Ion	Ratio	Lower	Upper
84	100		
49	128.9	97.8	146.8
51	38.5	29.5	44.3
86	65.7	51.8	77.6





#21
trans-1,2-Dichloroethene
Concen: 51.401 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Tgt Ion: 96 Resp: 14904

Ion	Ratio	Lower	Upper
96	100		
61	132.4	110.4	165.6
98	59.0	48.6	73.0

Manual Integrations
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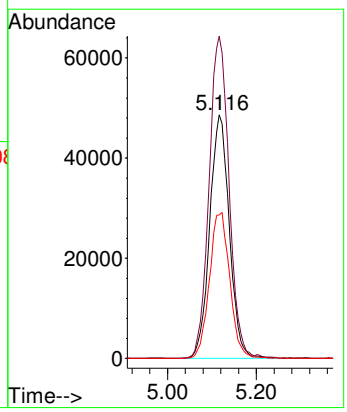
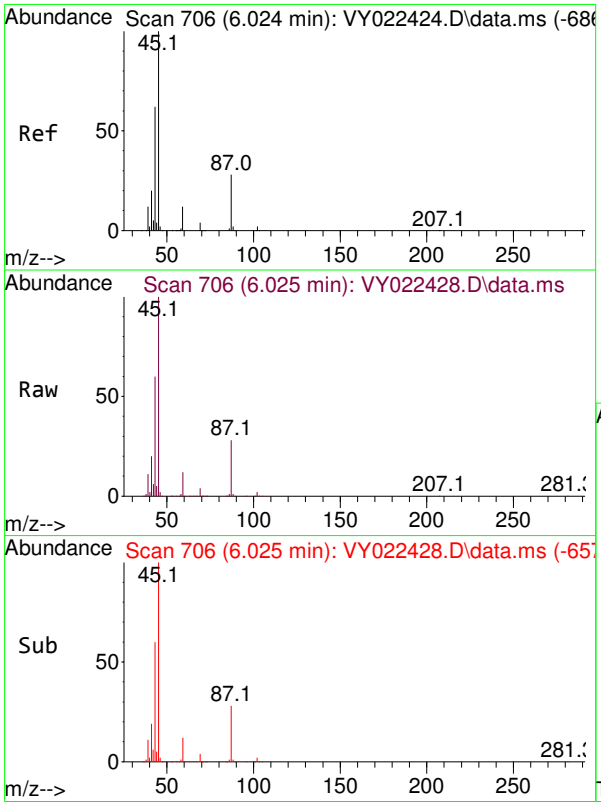
Supervised By :Mahesh Dadoda 05/28/2025

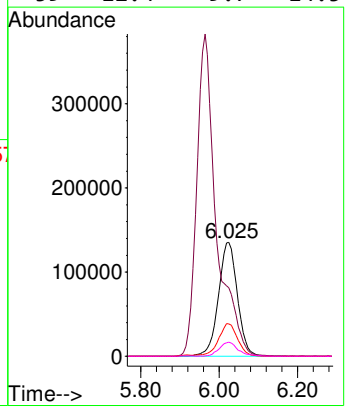


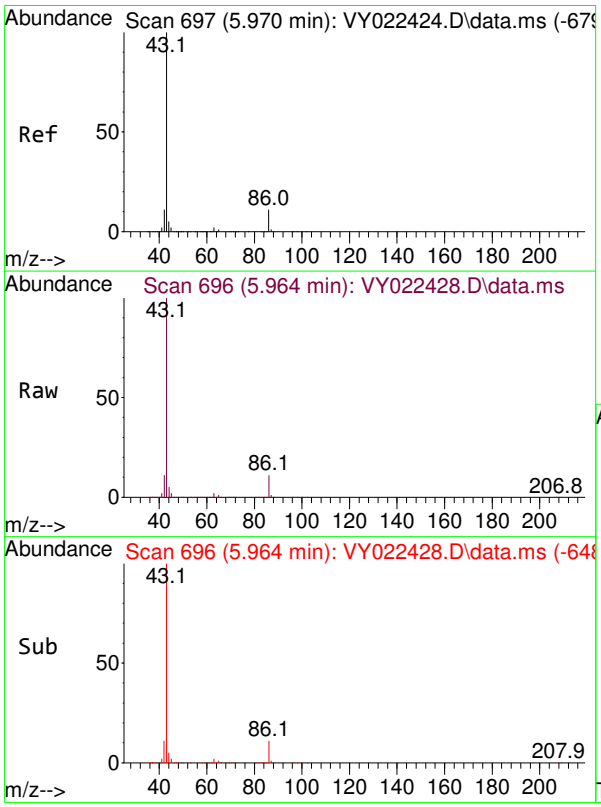


#22
Diisopropyl ether
Concen: 51.423 ug/l
RT: 6.025 min Scan# 706
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 45 Resp: 453438

Ion	Ratio	Lower	Upper
45	100		
43	59.8	49.8	74.8
87	28.4	23.0	34.6
59	12.4	9.7	14.5





#23
Vinyl Acetate
Concen: 262.697 ug/l
RT: 5.964 min Scan# 6
Delta R.T. -0.006 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 43 Resp: 133005

Ion	Ratio	Lower	Upper
43	100		
86	10.9	8.8	13.2

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Manual Integrations
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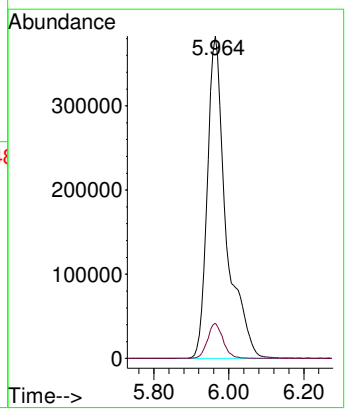
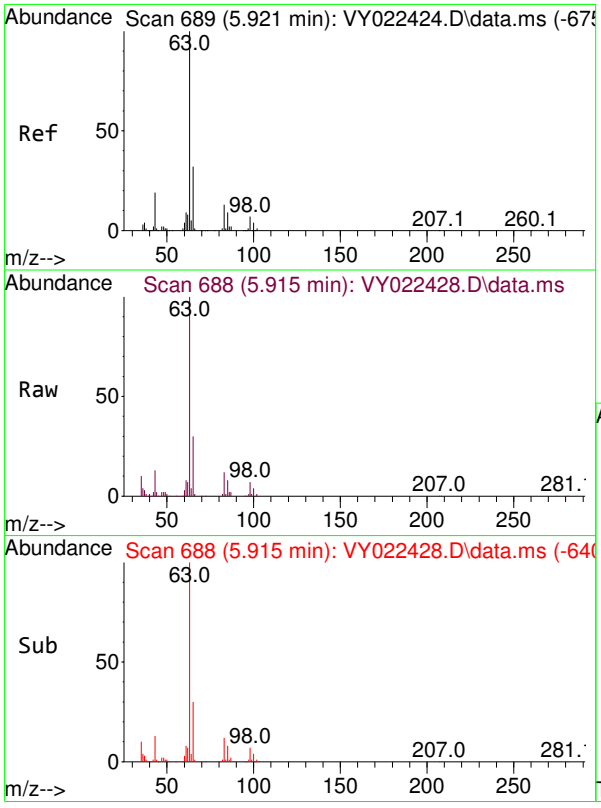
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

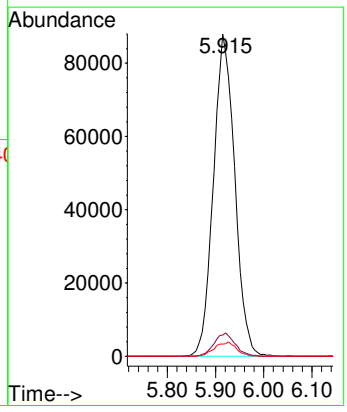


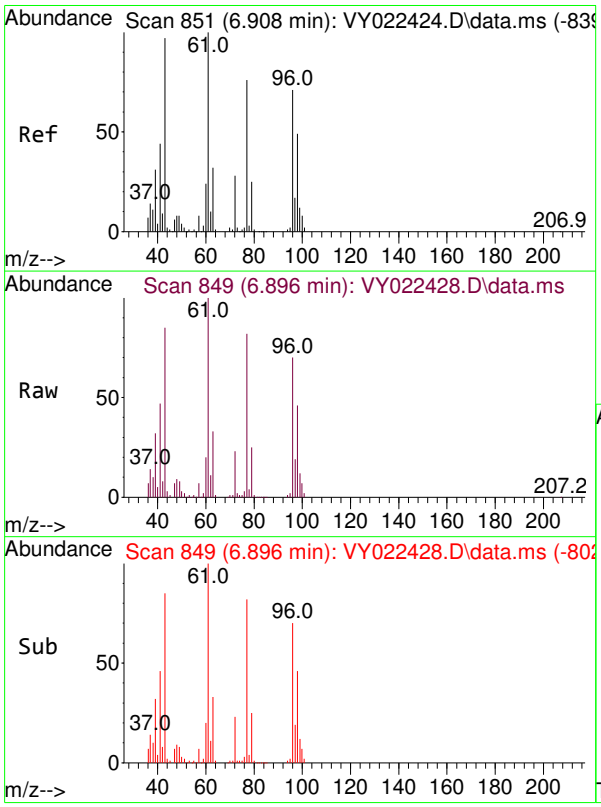


#24
1,1-Dichloroethane
Concen: 51.958 ug/l
RT: 5.915 min Scan# 688
Delta R.T. -0.006 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 63 Resp: 270725

Ion	Ratio	Lower	Upper
63	100		
98	6.6	3.5	10.5
100	3.8	2.1	6.5

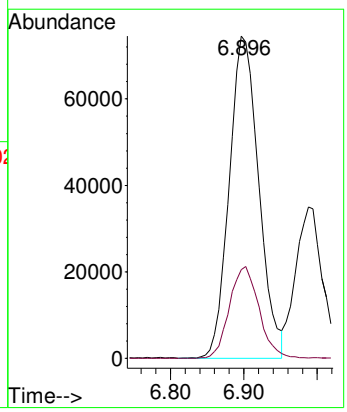




#25
2-Butanone
Concen: 285.123 ug/l
RT: 6.896 min Scan# 8
Delta R.T. -0.012 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 43 Resp: 20835

Ion	Ratio	Lower	Upper
43	100		
72	27.5	22.8	34.2



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

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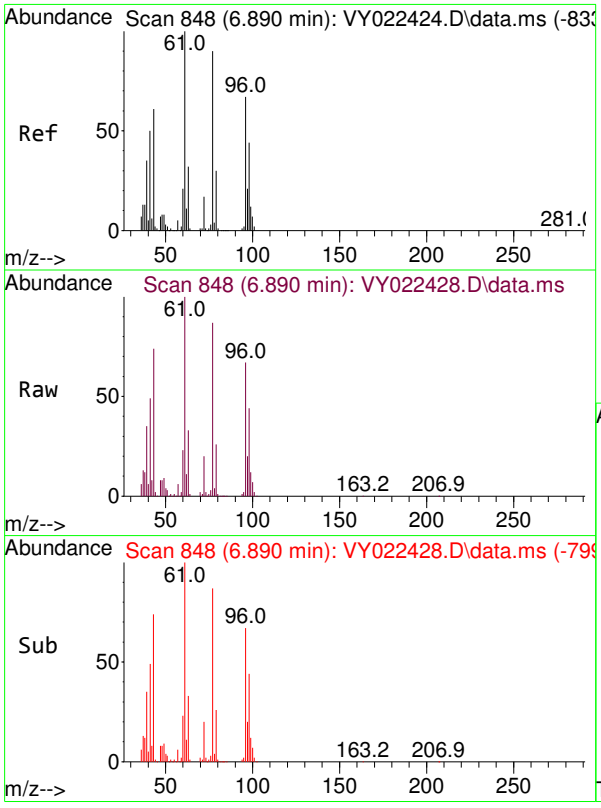
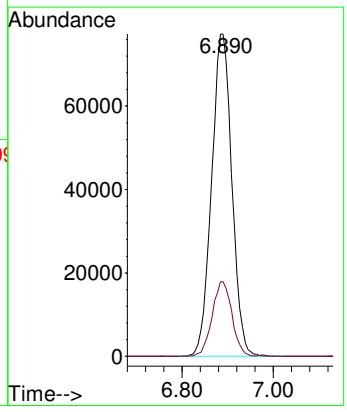
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

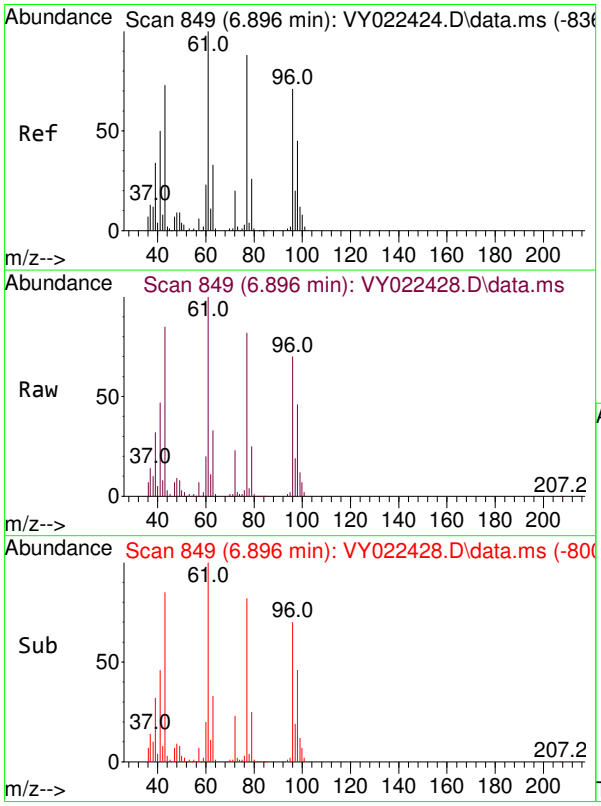


#26
2,2-Dichloropropane
Concen: 50.556 ug/l
RT: 6.890 min Scan# 848
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 77 Resp: 238523

Ion	Ratio	Lower	Upper
77	100		
97	22.6	11.6	34.7





#27
cis-1,2-Dichloroethene
Concen: 51.208 ug/l
RT: 6.896 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 96 Resp: 17189

Ion	Ratio	Lower	Upper
96	100		
61	146.7	0.0	292.0
98	64.2	0.0	131.0

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

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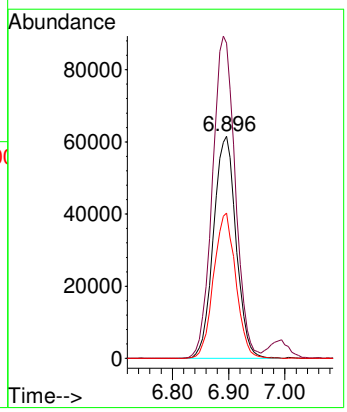
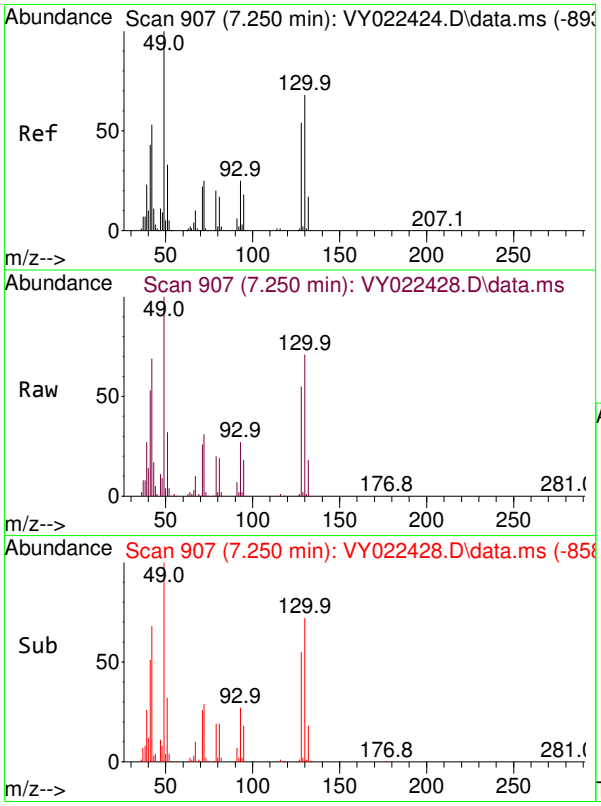
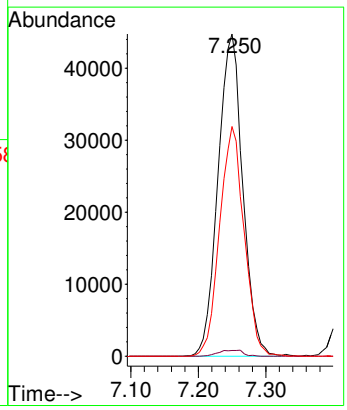


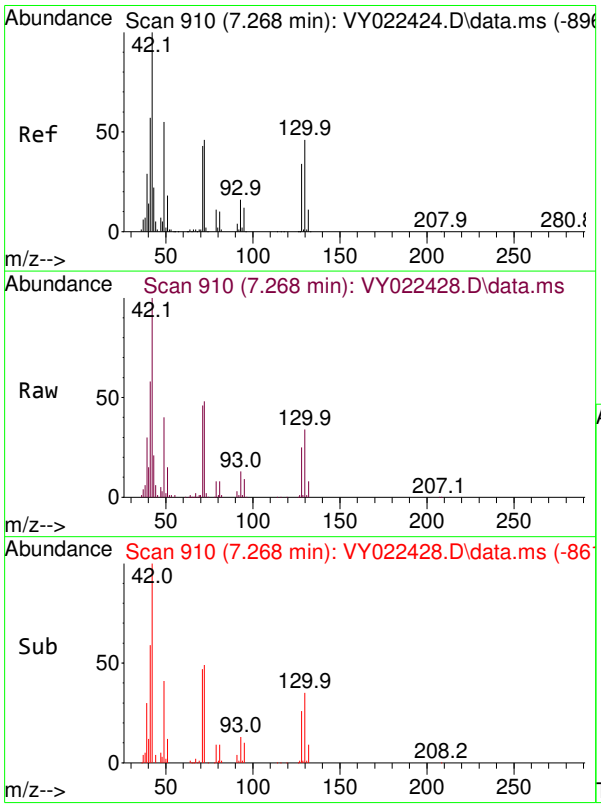


#28
Bromochloromethane
Concen: 52.427 ug/l
RT: 7.250 min Scan# 907
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 49 Resp: 114068

Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	4.0
130	70.5	56.9	85.3





#29
Tetrahydrofuran
Concen: 280.691 ug/l
RT: 7.268 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 42 Resp: 13679

Ion	Ratio	Lower	Upper
42	100		
72	46.3	37.7	56.5
71	43.0	34.7	52.1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Manual Integrations
APPROVED

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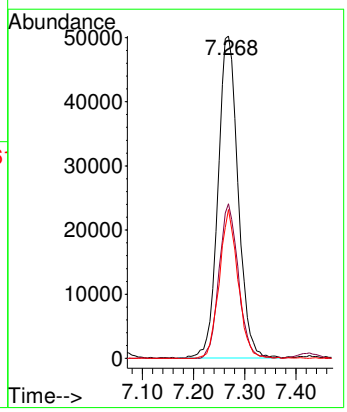
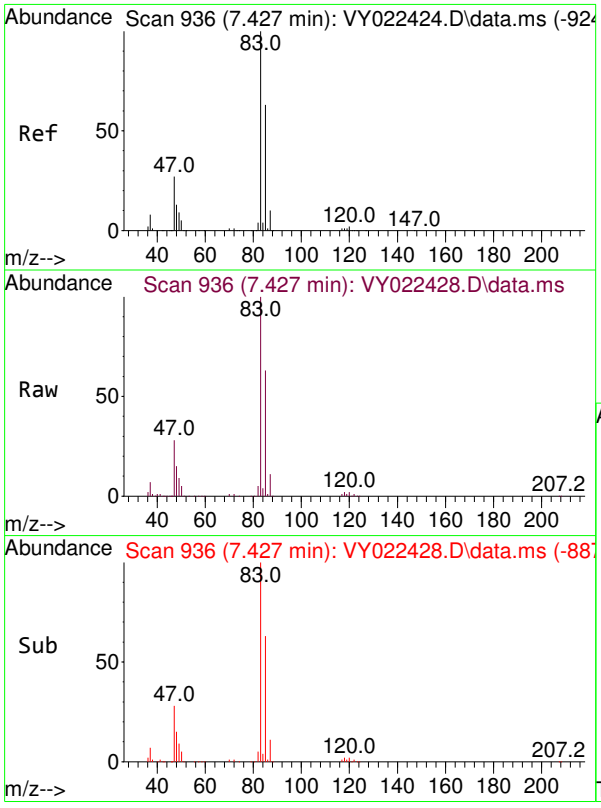
Supervised By :Mahesh Dadoda 05/28/2025

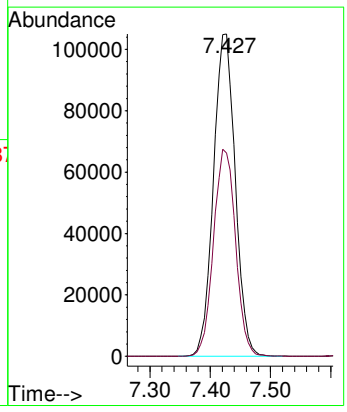


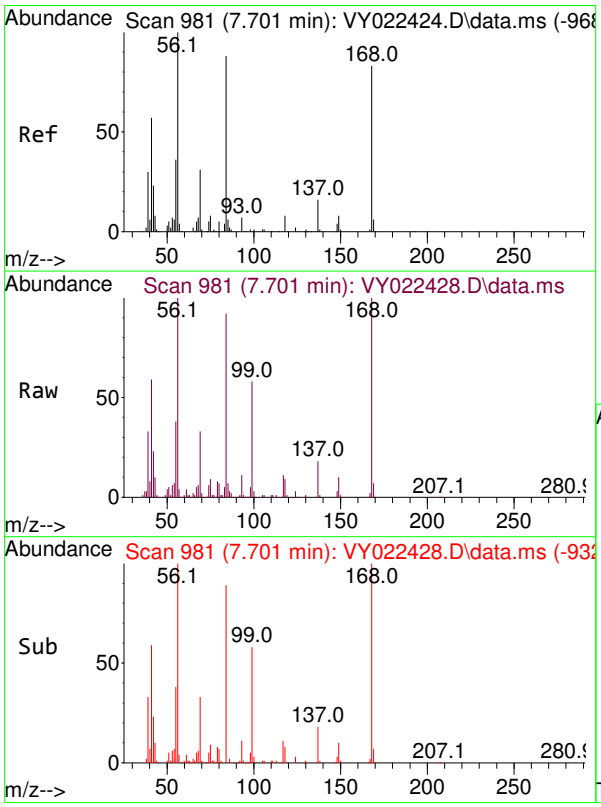


#30
Chloroform
Concen: 51.416 ug/l
RT: 7.427 min Scan# 936
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 83 Resp: 263982

Ion	Ratio	Lower	Upper
83	100		
85	63.0	50.1	75.1





#31
Cyclohexane
Concen: 44.566 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 56 Resp: 22890

Ion	Ratio	Lower	Upper
56	100		
69	32.8	24.6	36.8
84	89.3	70.4	105.6

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

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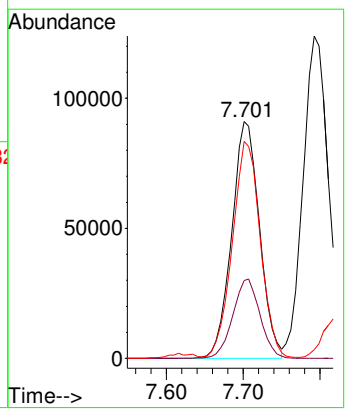
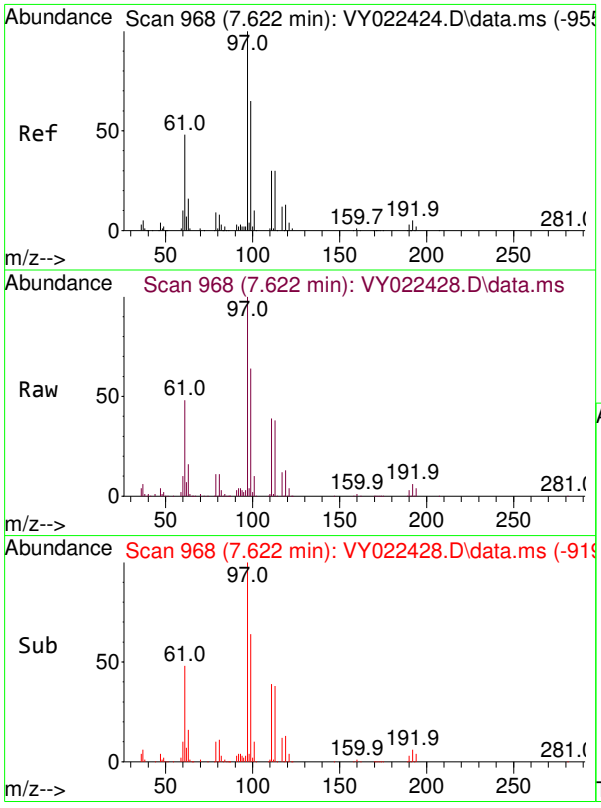
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

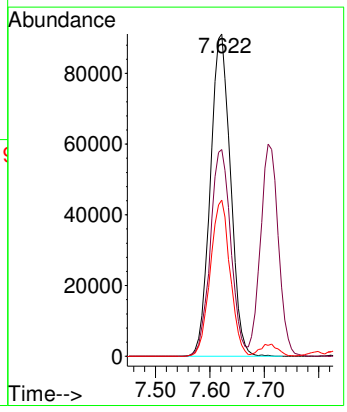


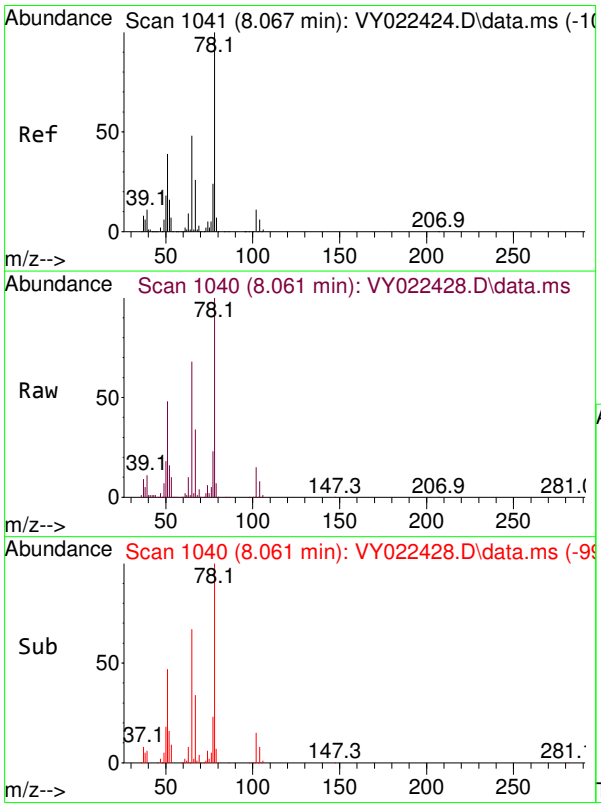


#32
1,1,1-Trichloroethane
Concen: 50.290 ug/l
RT: 7.622 min Scan# 968
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 97 Resp: 234335

Ion	Ratio	Lower	Upper
97	100		
99	65.5	51.3	76.9
61	47.8	37.3	55.9





#33
1,2-Dichloroethane-d4
Concen: 50.905 ug/l
RT: 8.061 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 65 Resp: 13592

Ion	Ratio	Lower	Upper
65	100		
67	52.8	0.0	104.4

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

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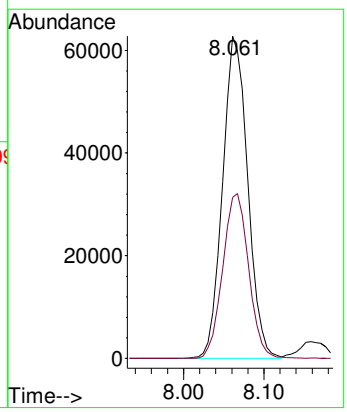
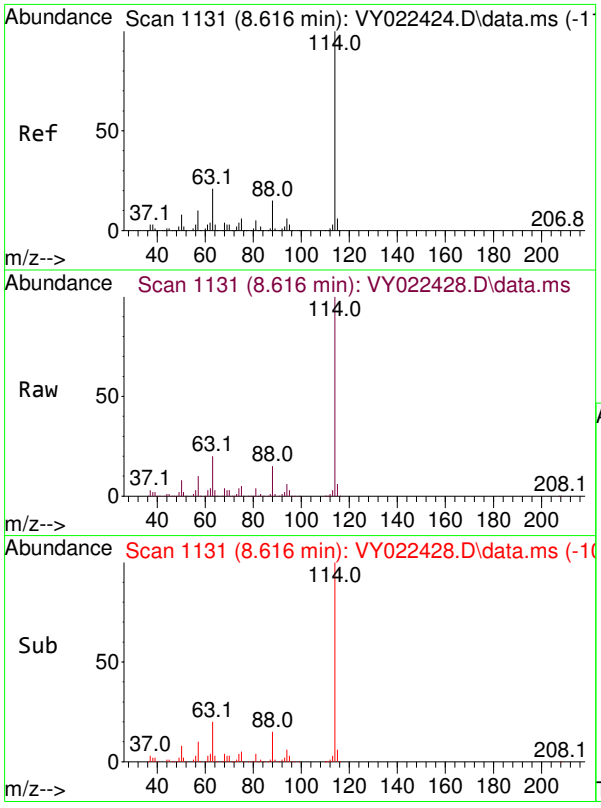
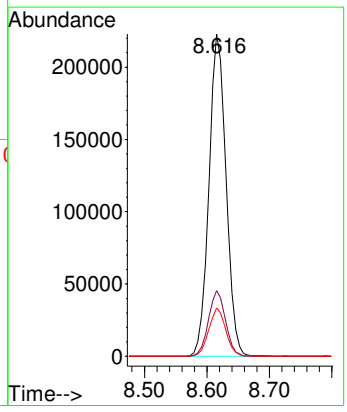


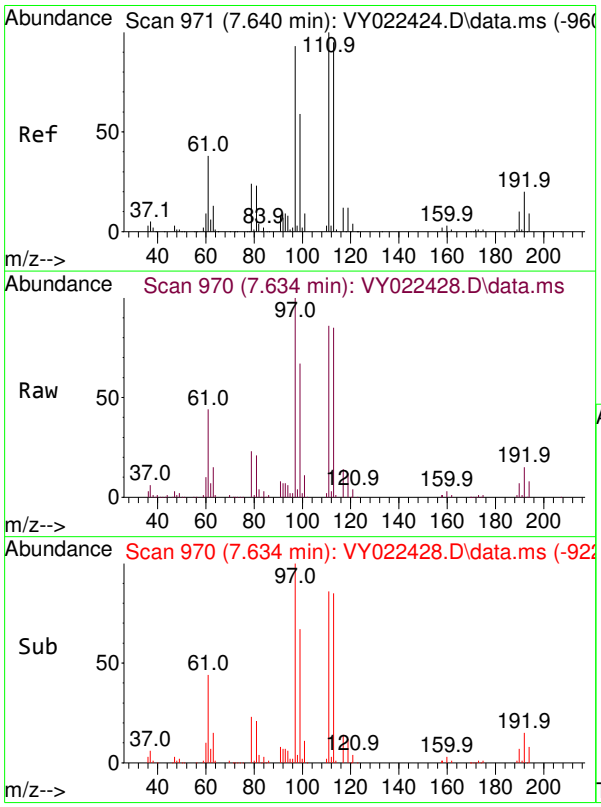


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion:114 Resp: 425137

Ion	Ratio	Lower	Upper
114	100		
63	20.4	0.0	42.6
88	15.0	0.0	29.4

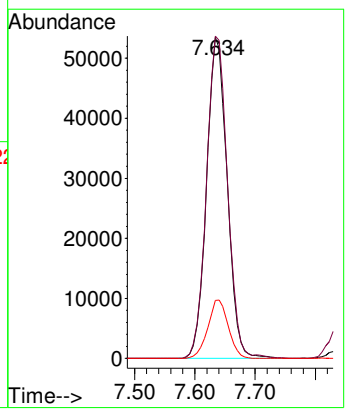




#35
Dibromofluoromethane
Concen: 50.924 ug/l
RT: 7.634 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion:113 Resp: 12678

Ion	Ratio	Lower	Upper
113	100		
111	102.7	82.4	123.6
192	18.1	15.2	22.8



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Manual Integrations
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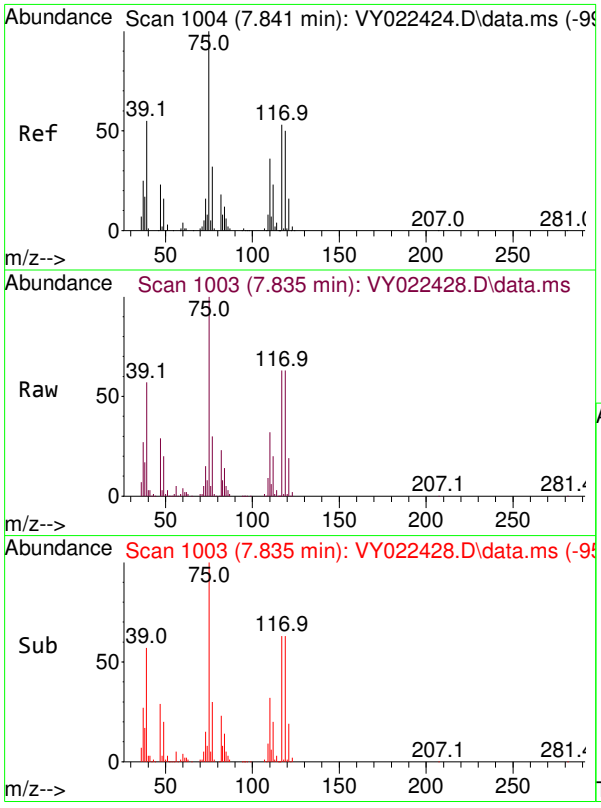
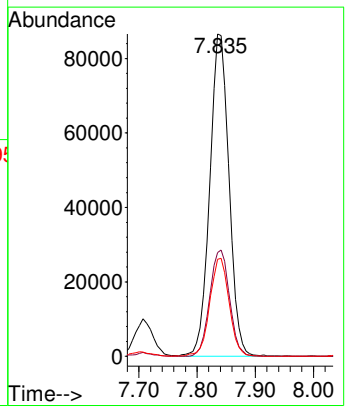
Supervised By :Mahesh Dadoda 05/28/2025

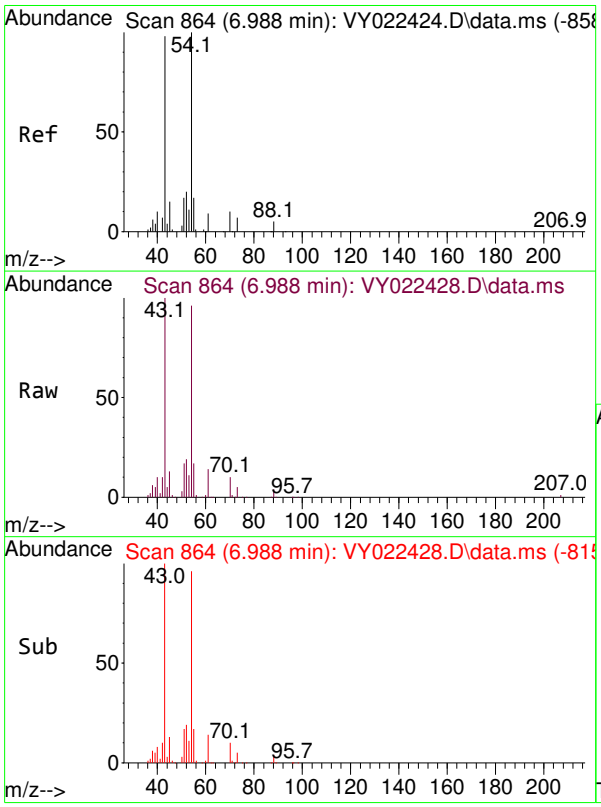


#36
1,1-Dichloropropene
Concen: 50.295 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. -0.006 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 75 Resp: 198705

Ion	Ratio	Lower	Upper
75	100		
110	33.8	17.1	51.2
77	30.6	25.1	37.7





#37
Ethyl Acetate
Concen: 54.775 ug/l
RT: 6.988 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 43 Resp: 9196

Ion	Ratio	Lower	Upper
43	100		
61	13.2	11.7	17.5
70	9.8	7.8	11.6

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

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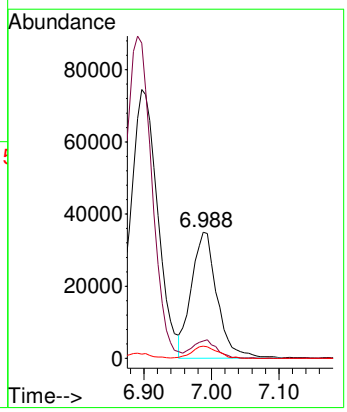
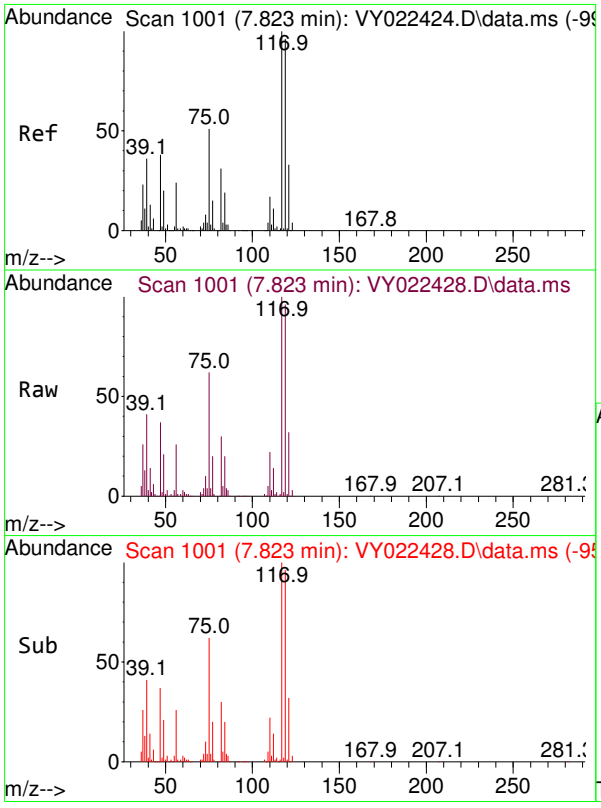
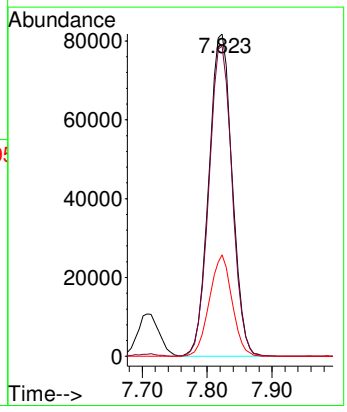


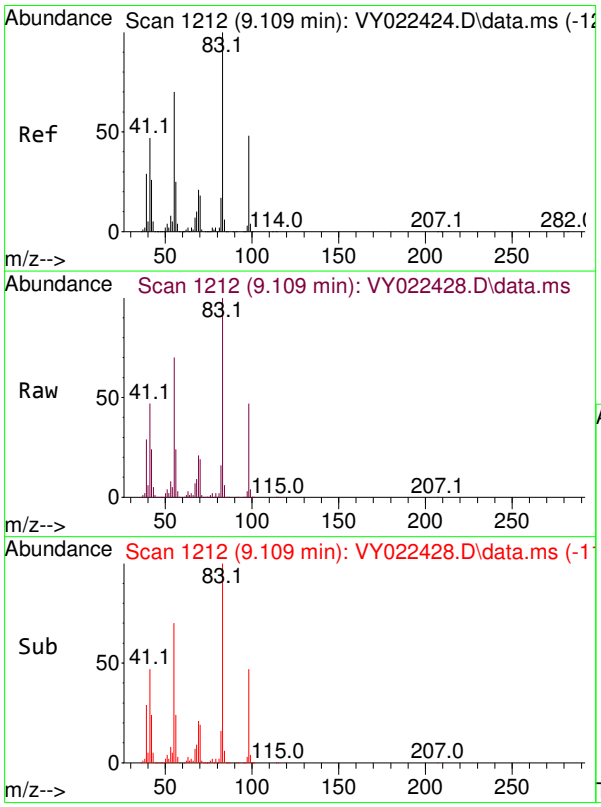


#38
Carbon Tetrachloride
Concen: 49.782 ug/l
RT: 7.823 min Scan# 1001
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion:117 Resp: 204881

Ion	Ratio	Lower	Upper
117	100		
119	96.2	76.3	114.5
121	31.5	26.1	39.1





#39
Methylcyclohexane
Concen: 48.189 ug/l
RT: 9.109 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 83 Resp: 25307

Ion	Ratio	Lower	Upper
83	100		
55	69.7	56.2	84.2
98	47.1	38.4	57.6

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

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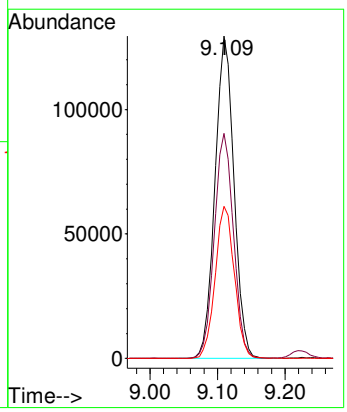
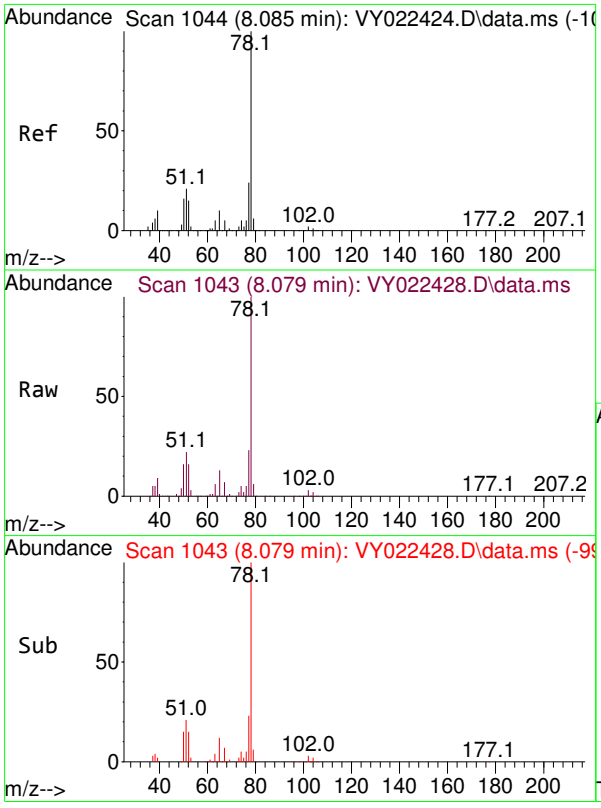
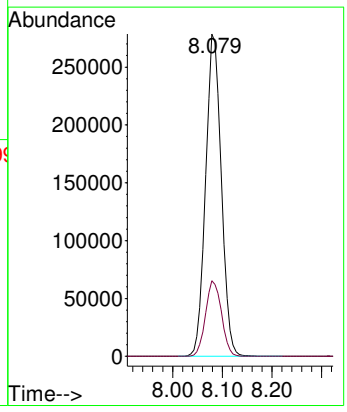


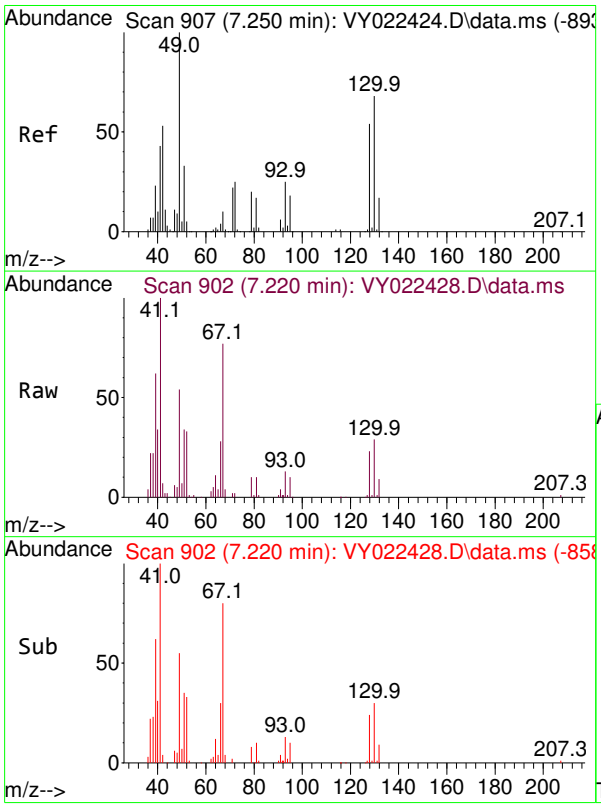


#40
Benzene
Concen: 51.876 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. -0.006 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 78 Resp: 609847

Ion	Ratio	Lower	Upper
78	100		
77	23.4	19.4	29.2

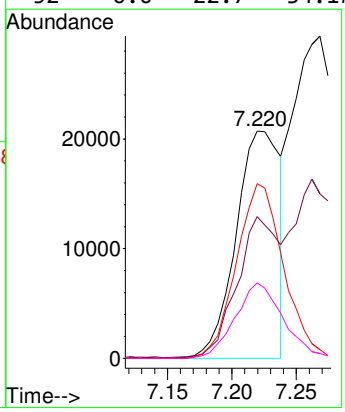




#41
Methacrylonitrile
Concen: 48.279 ug/l m
RT: 7.220 min Scan# 9
Delta R.T. -0.030 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 41 Resp: 4920

Ion	Ratio	Lower	Upper
41	100		
39	79.7	40.4	60.6
67	0.0	53.0	79.4
52	0.0	22.7	34.1#



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Manual Integrations
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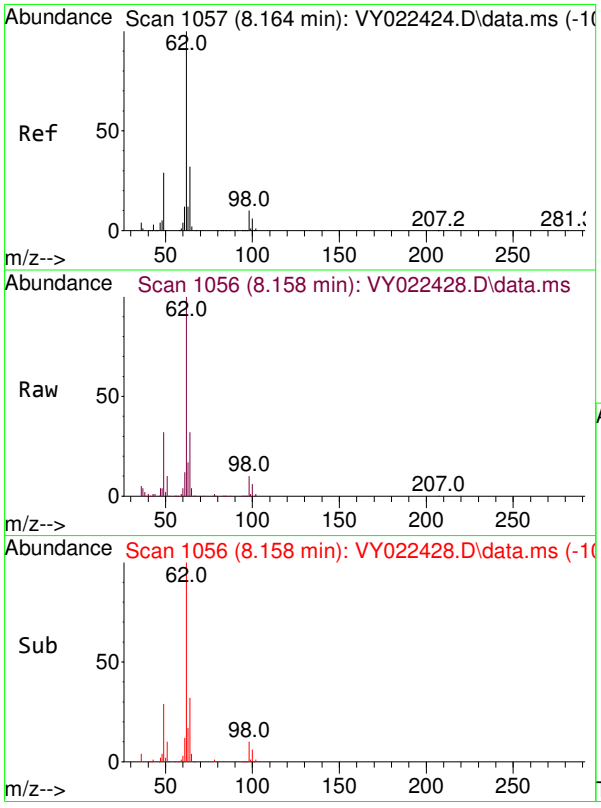
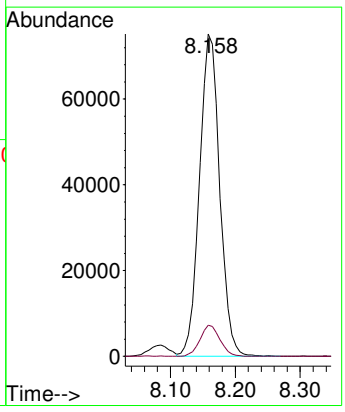
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

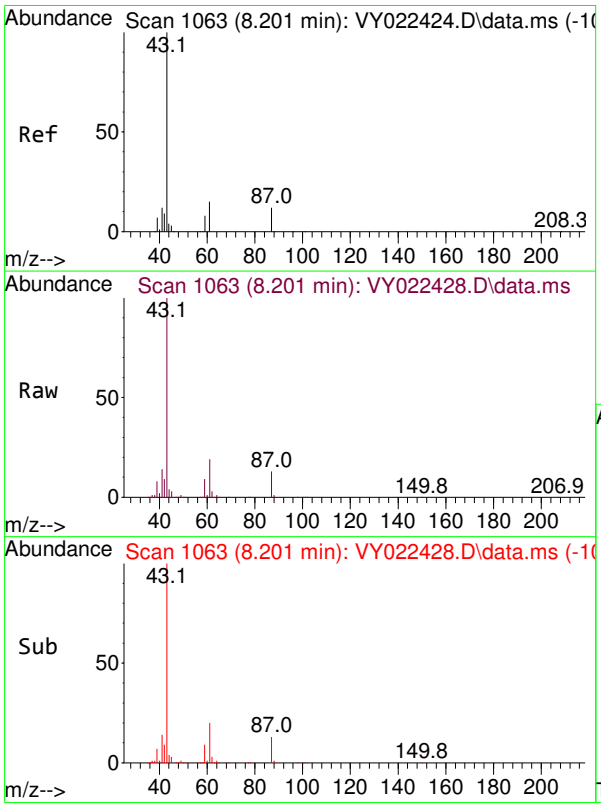


#42
1,2-Dichloroethane
Concen: 52.242 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. -0.006 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 62 Resp: 162203

Ion	Ratio	Lower	Upper
62	100		
98	9.5	0.0	18.4

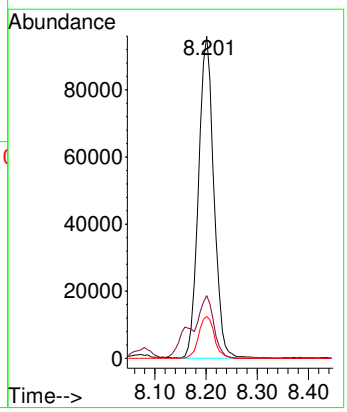




#43
Isopropyl Acetate
Concen: 54.305 ug/l
RT: 8.201 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 43 Resp: 19924

Ion	Ratio	Lower	Upper
43	100		
61	18.8	15.4	23.0
87	13.3	10.6	15.8



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

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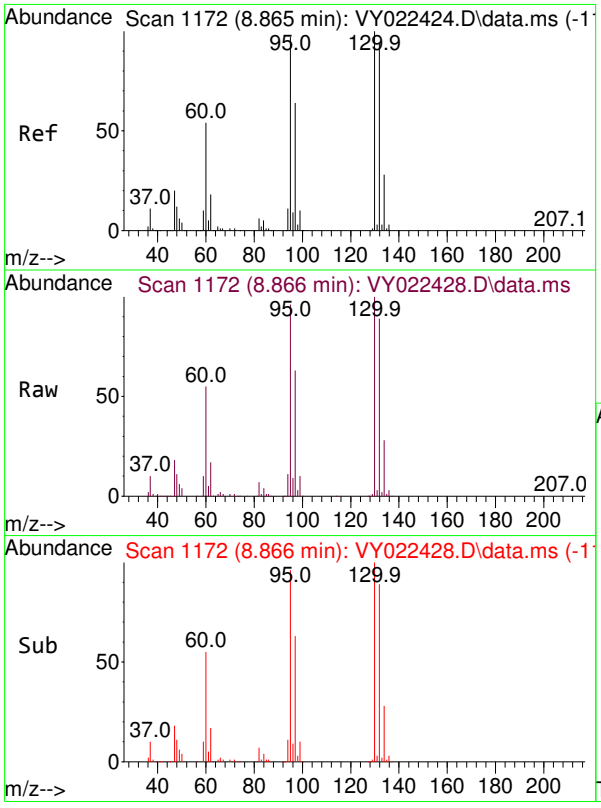
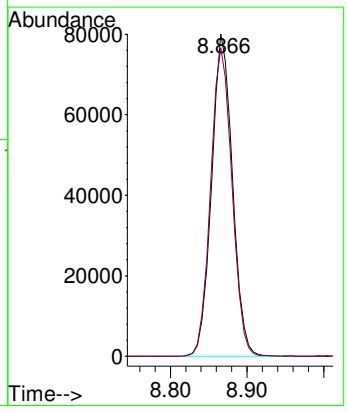
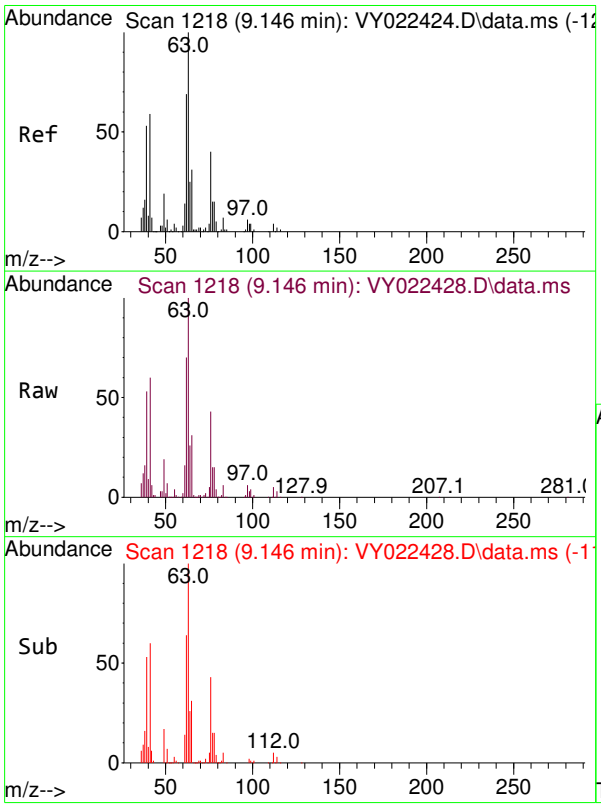


#44
Trichloroethene
Concen: 52.041 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion:130 Resp: 151238

Ion	Ratio	Lower	Upper
130	100		
95	95.7	0.0	194.8





#45
1,2-Dichloropropane
Concen: 50.975 ug/l
RT: 9.146 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 63 Resp: 14079

Ion	Ratio	Lower	Upper
63	100		
65	31.4	25.1	37.7

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

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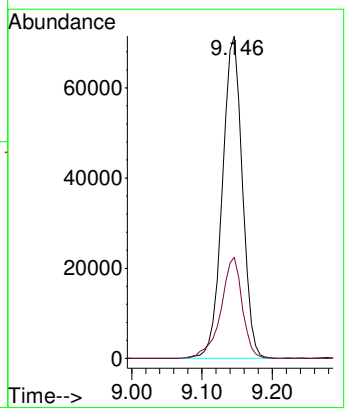
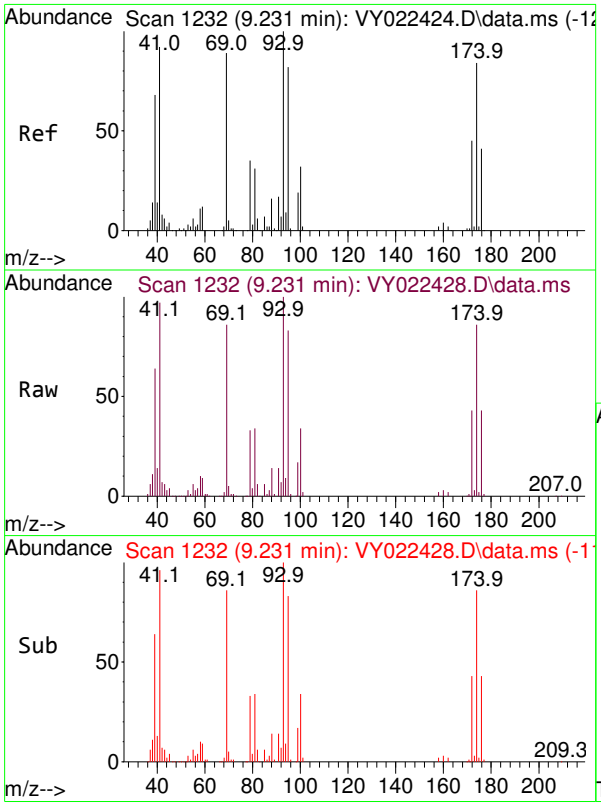
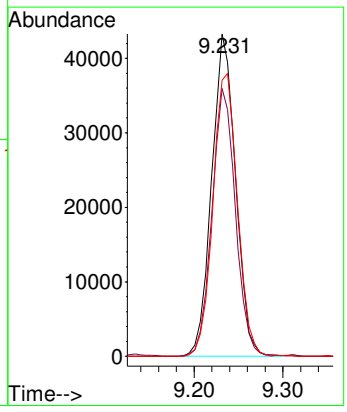


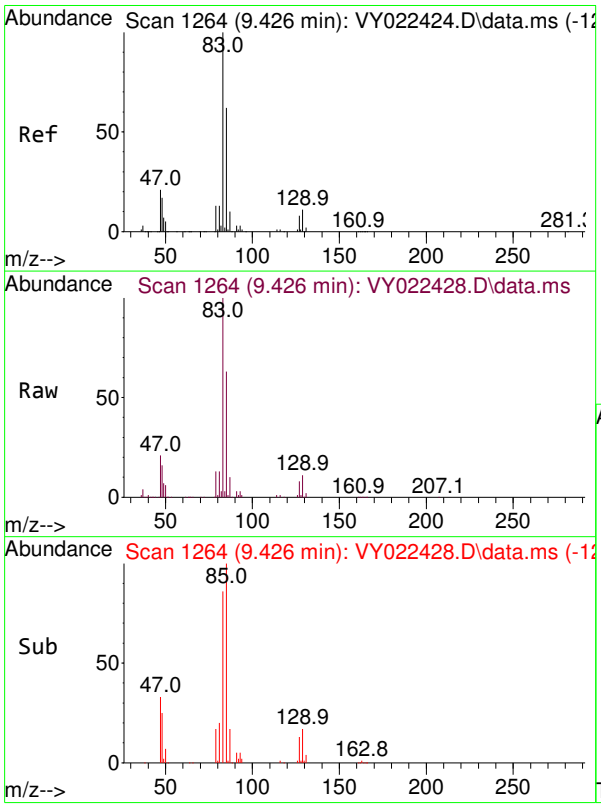


#46
Dibromomethane
Concen: 52.586 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 93 Resp: 81139

Ion	Ratio	Lower	Upper
93	100		
95	81.8	66.2	99.2
174	89.9	71.1	106.7





#47
Bromodichloromethane
Concen: 51.745 ug/l
RT: 9.426 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 83 Resp: 20531

Ion	Ratio	Lower	Upper
83	100		
85	62.8	49.8	74.6
127	7.9	6.6	9.8

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Manual Integrations
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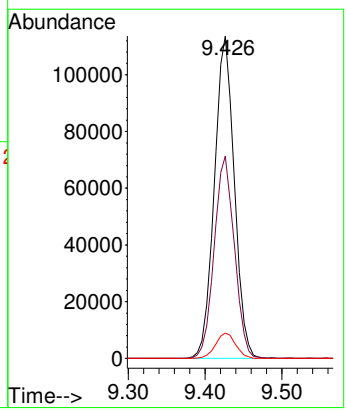
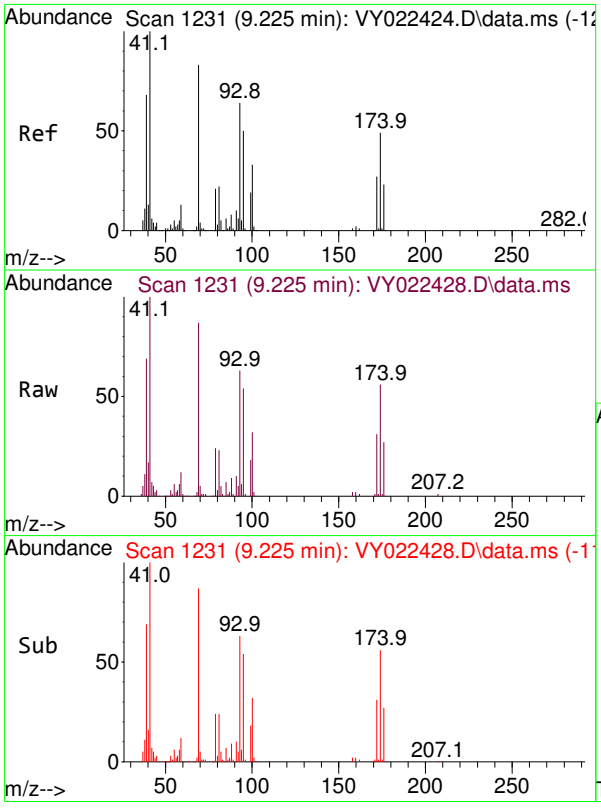
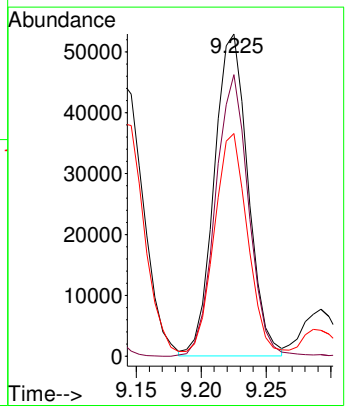


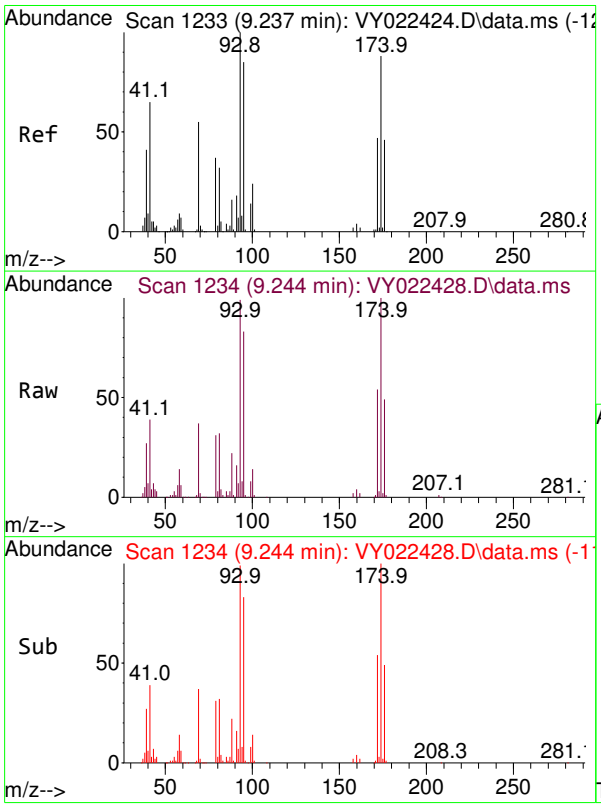


#48
Methyl methacrylate
Concen: 56.276 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 41 Resp: 95846

Ion	Ratio	Lower	Upper
41	100		
69	86.1	70.3	105.5
39	66.0	55.4	83.0





#49
1,4-Dioxane
Concen: 1051.366 ug/l
RT: 9.244 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 88 Resp: 1791

Ion	Ratio	Lower	Upper
88	100		
43	30.9	26.9	40.3
58	64.5	55.8	83.6

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Manual Integrations APPROVED

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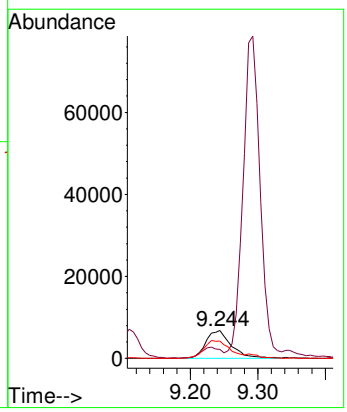
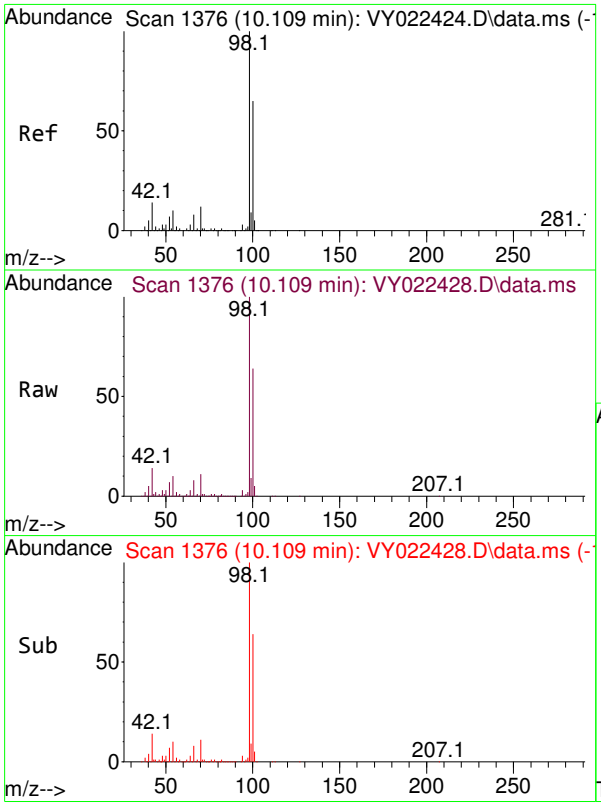
Supervised By :Mahesh Dadoda 05/28/2025

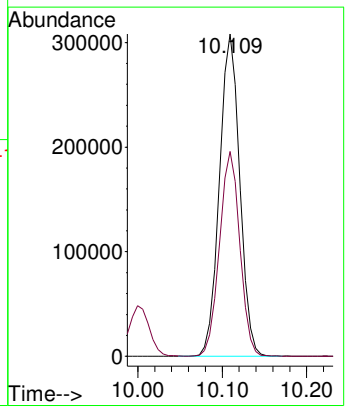


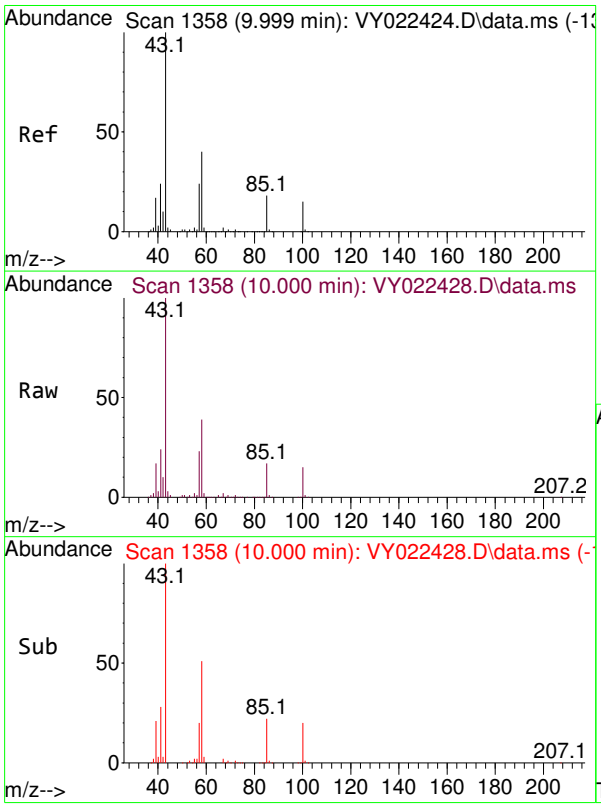


#50
Toluene-d8
Concen: 50.886 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 98 Resp: 516469

Ion	Ratio	Lower	Upper
98	100		
100	63.5	52.2	78.2





#51
4-Methyl-2-Pentanone
Concen: 287.032 ug/l
RT: 10.000 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 43 Resp: 51960

Ion	Ratio	Lower	Upper
43	100		
58	39.2	31.2	46.8

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

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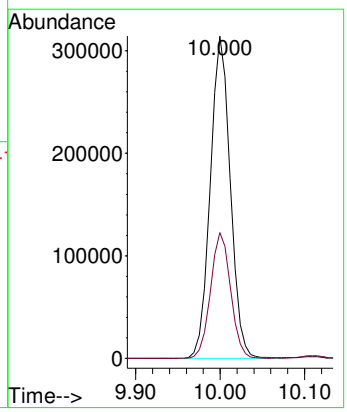
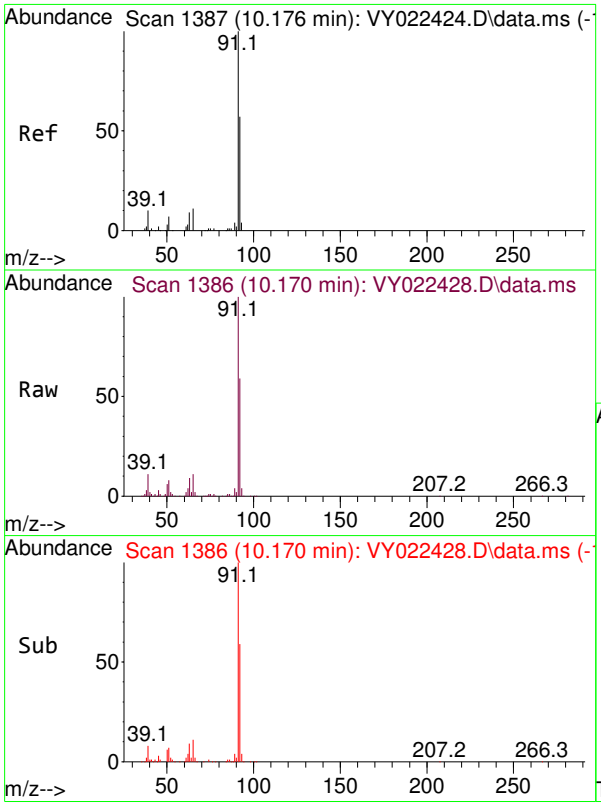
Supervised By :Mahesh Dadoda 05/28/2025

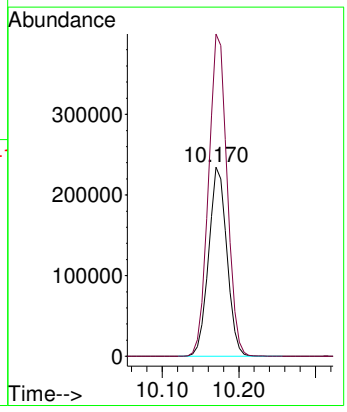


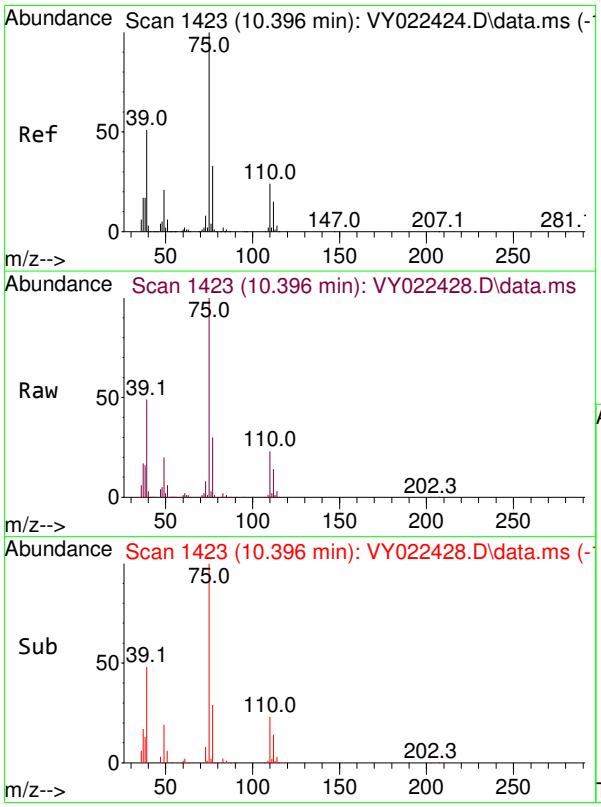


#52
Toluene
Concen: 52.832 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.006 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 92 Resp: 387936

Ion	Ratio	Lower	Upper
92	100		
91	173.4	139.8	209.6





#53
t-1,3-Dichloropropene
Concen: 54.094 ug/l
RT: 10.396 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 75 Resp: 19992

Ion	Ratio	Lower	Upper
75	100		
77	29.5	26.2	39.2

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

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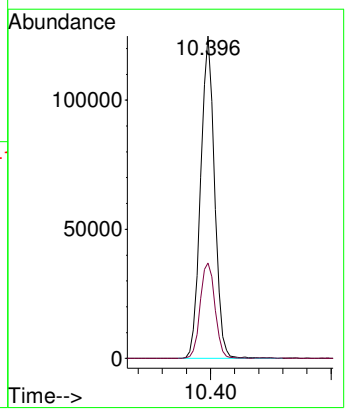
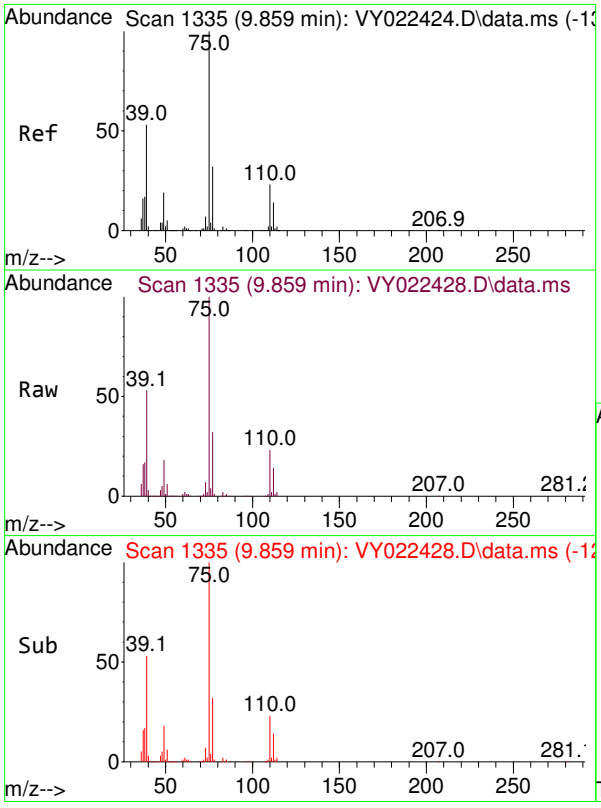
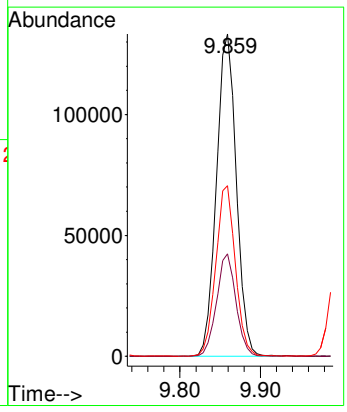


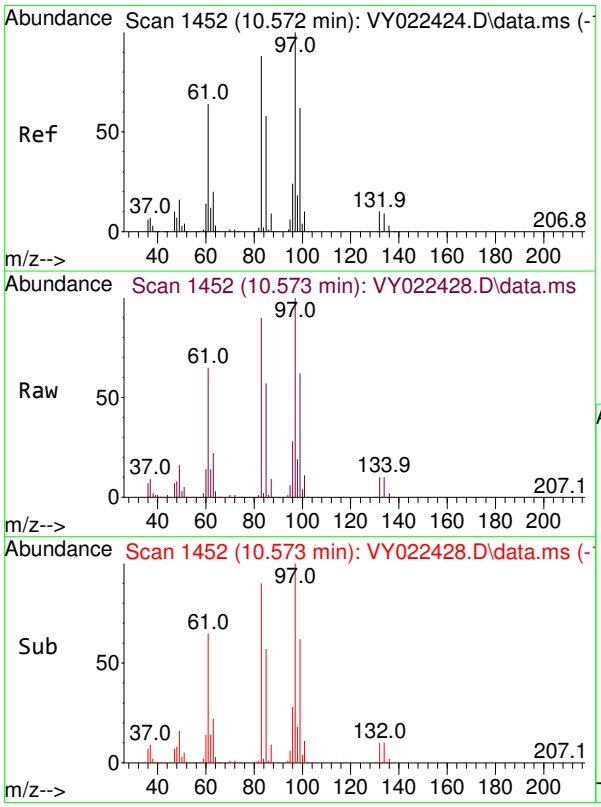


#54
cis-1,3-Dichloropropene
Concen: 52.618 ug/l
RT: 9.859 min Scan# 1335
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 75 Resp: 228509

Ion	Ratio	Lower	Upper
75	100		
77	31.8	25.4	38.2
39	52.8	42.5	63.7

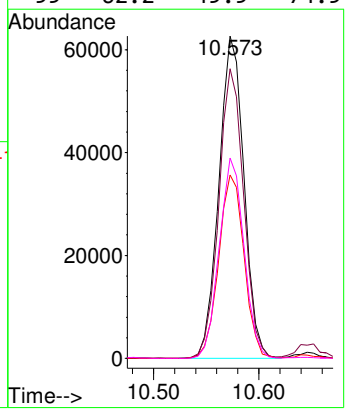




#55
1,1,2-Trichloroethane
Concen: 53.168 ug/l
RT: 10.573 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 97 Resp: 10372

Ion	Ratio	Lower	Upper
97	100		
83	89.8	70.2	105.4
85	56.9	46.1	69.1
99	62.2	49.9	74.9



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

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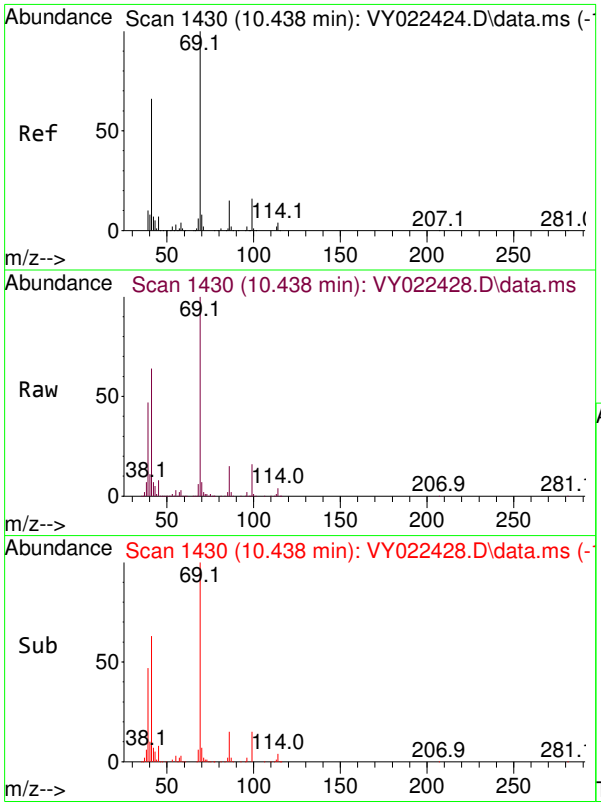
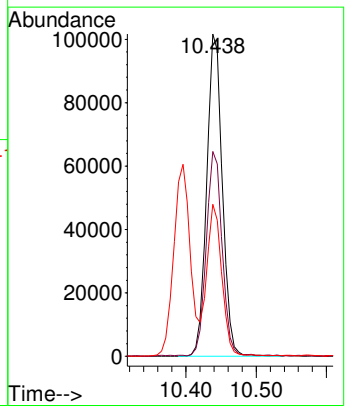
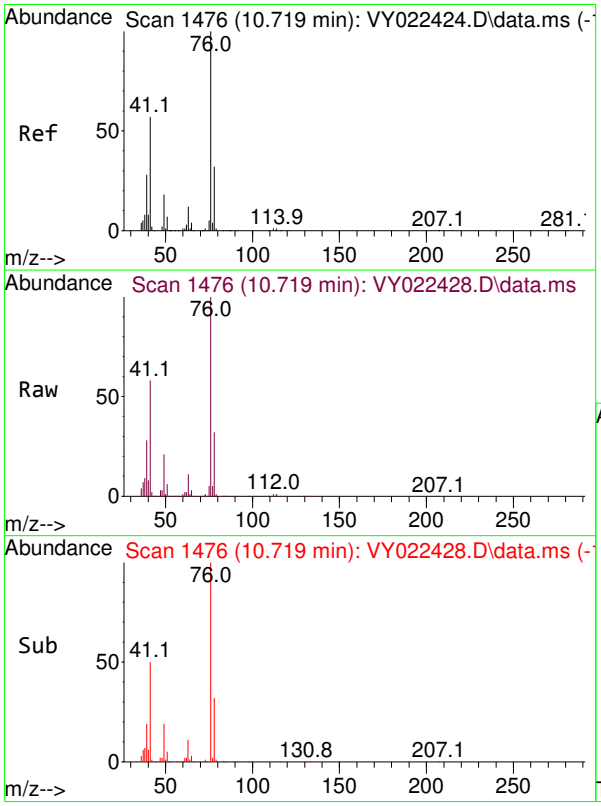


#56
Ethyl methacrylate
Concen: 55.994 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 69 Resp: 156757

Ion	Ratio	Lower	Upper
69	100		
41	64.1	51.2	76.8
39	44.3	35.2	52.8





#57
1,3-Dichloropropane
Concen: 52.634 ug/l
RT: 10.719 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 76 Resp: 18094

Ion	Ratio	Lower	Upper
76	100		
78	32.8	25.8	38.8

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

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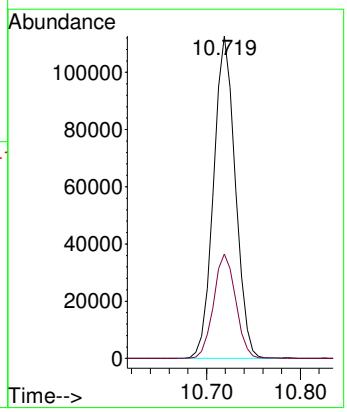
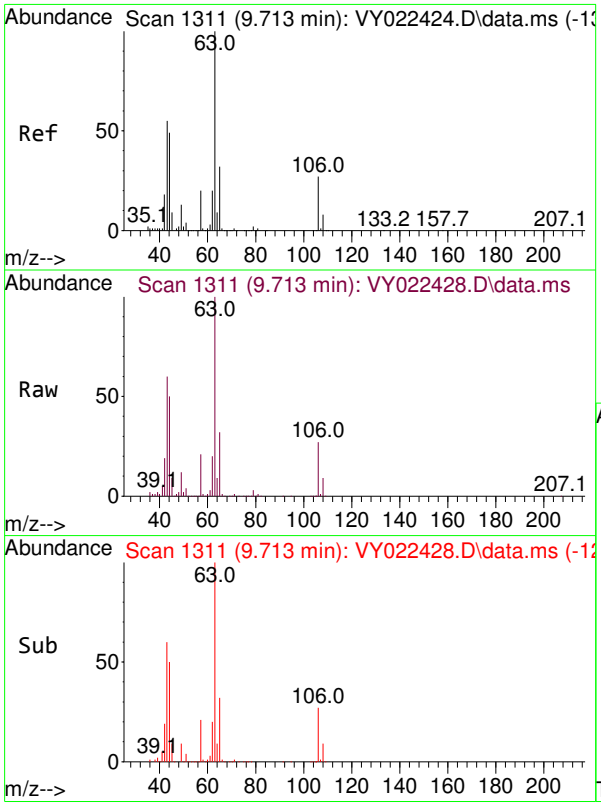
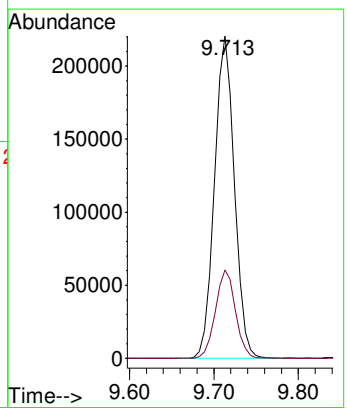


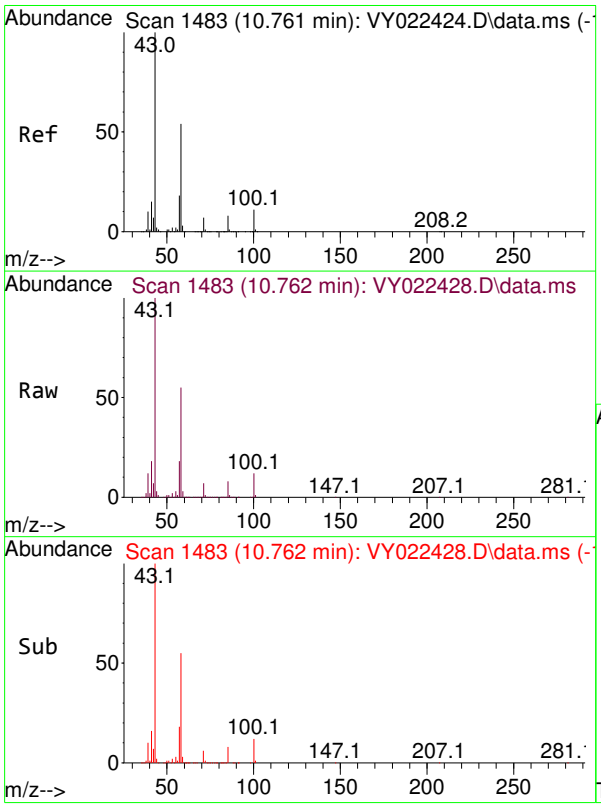


#58
2-Chloroethyl Vinyl ether
Concen: 259.493 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 63 Resp: 362054

Ion	Ratio	Lower	Upper
63	100		
106	27.5	22.2	33.2





#59
2-Hexanone
Concen: 292.964 ug/l
RT: 10.762 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 43 Resp: 34756

Ion	Ratio	Lower	Upper
43	100		
58	54.8	27.1	81.2

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

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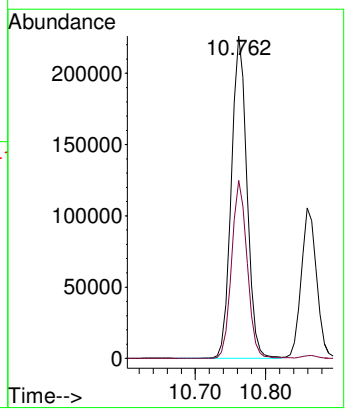
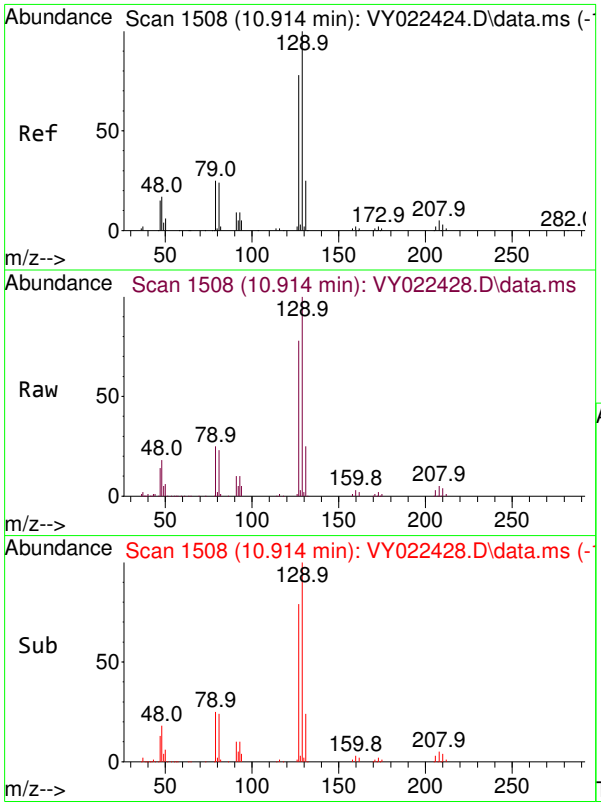
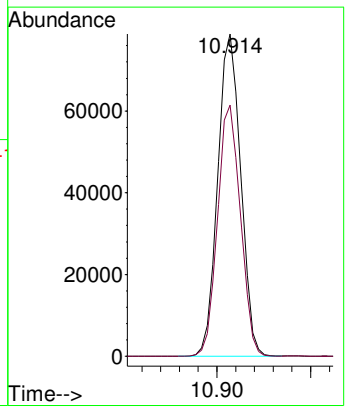


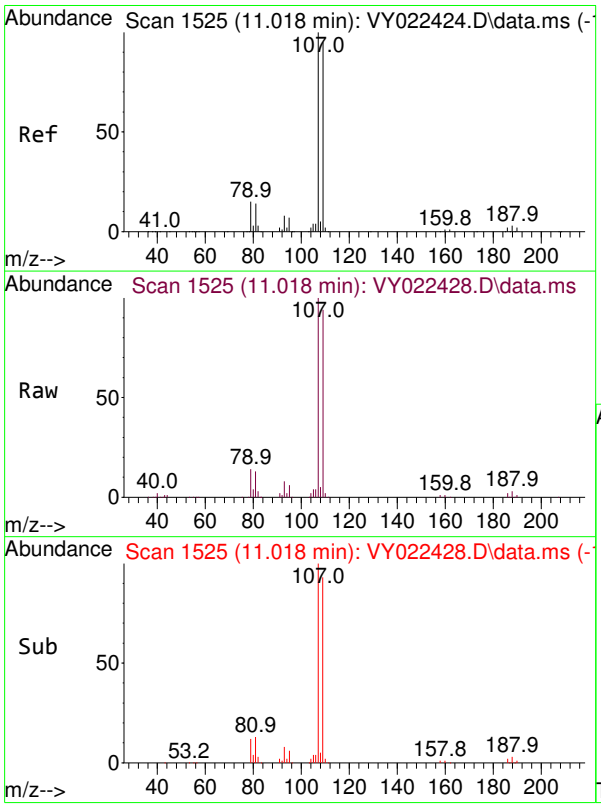


#60
Dibromochloromethane
Concen: 53.666 ug/l
RT: 10.914 min Scan# 1508
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion:129 Resp: 133735

Ion	Ratio	Lower	Upper
129	100		
127	77.5	38.3	114.8





#61
1,2-Dibromoethane
Concen: 54.130 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion:107 Resp: 9658

Ion	Ratio	Lower	Upper
107	100		
109	94.3	74.0	111.0

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

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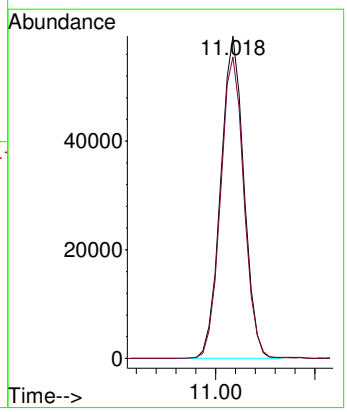
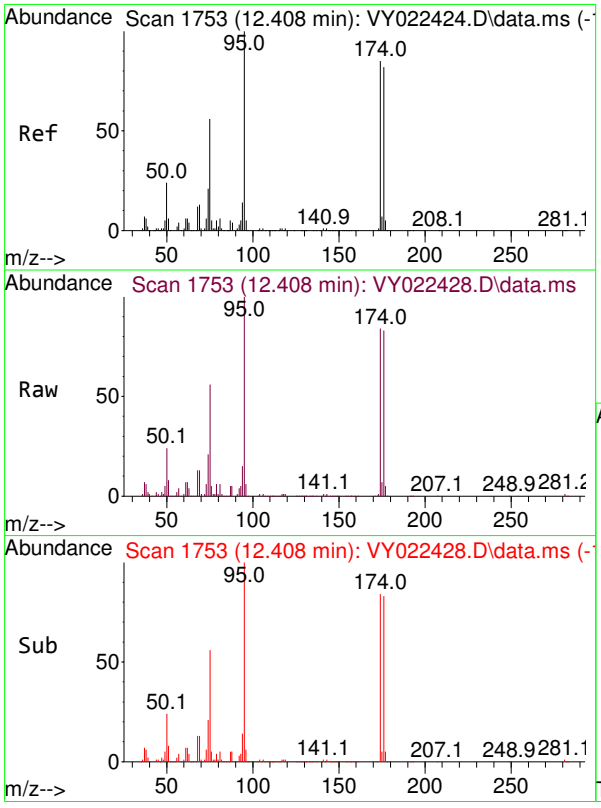
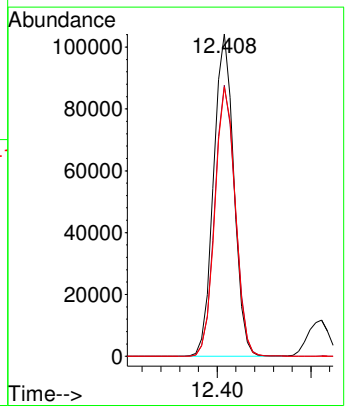


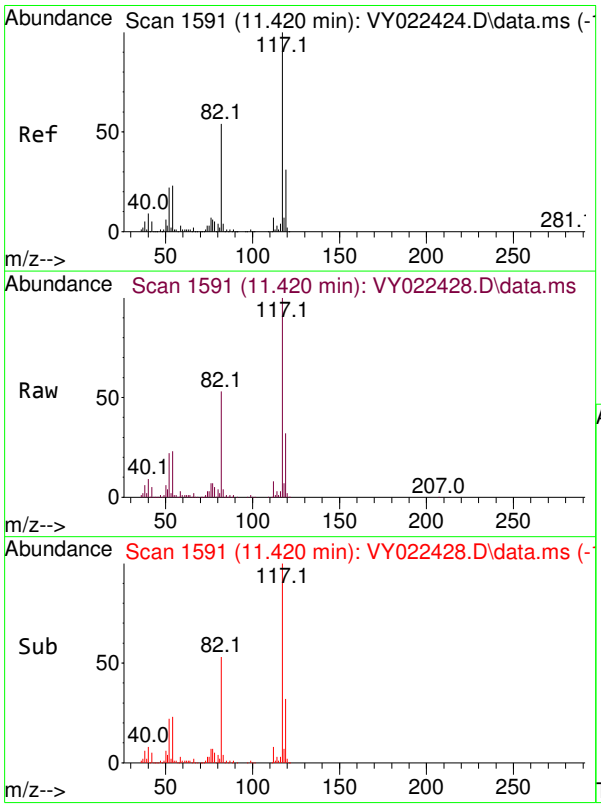


#62
4-Bromofluorobenzene
Concen: 50.731 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 95 Resp: 155747

Ion	Ratio	Lower	Upper
95	100		
174	85.0	0.0	171.6
176	84.3	0.0	164.6





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion:117 Resp: 37116

Ion	Ratio	Lower	Upper
117	100		
82	53.5	43.3	64.9
119	32.5	24.5	36.7

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

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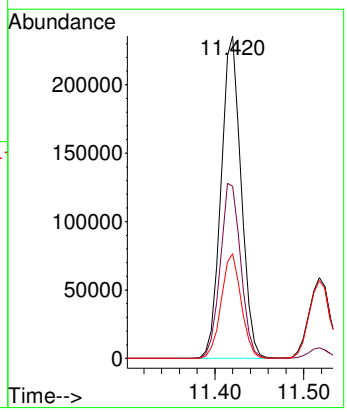
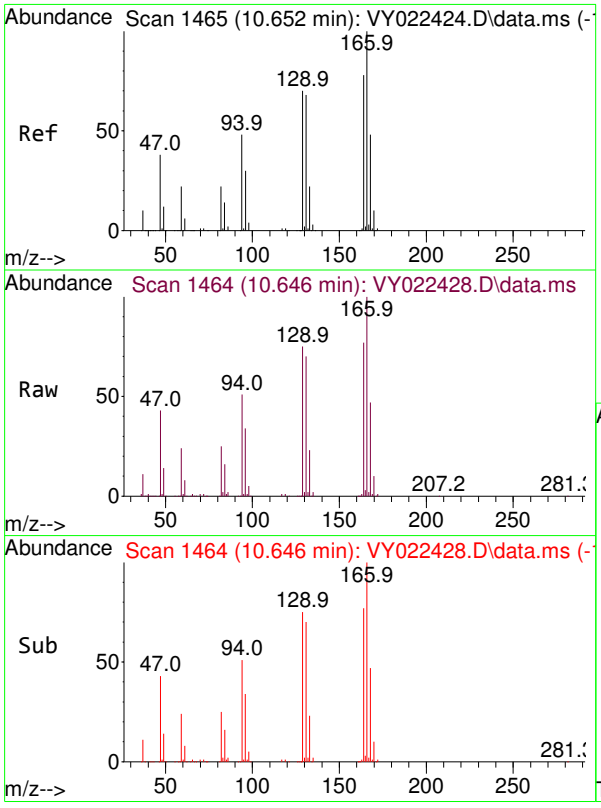
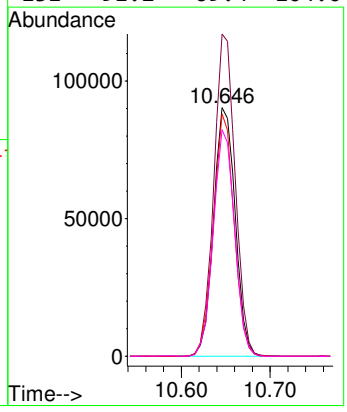


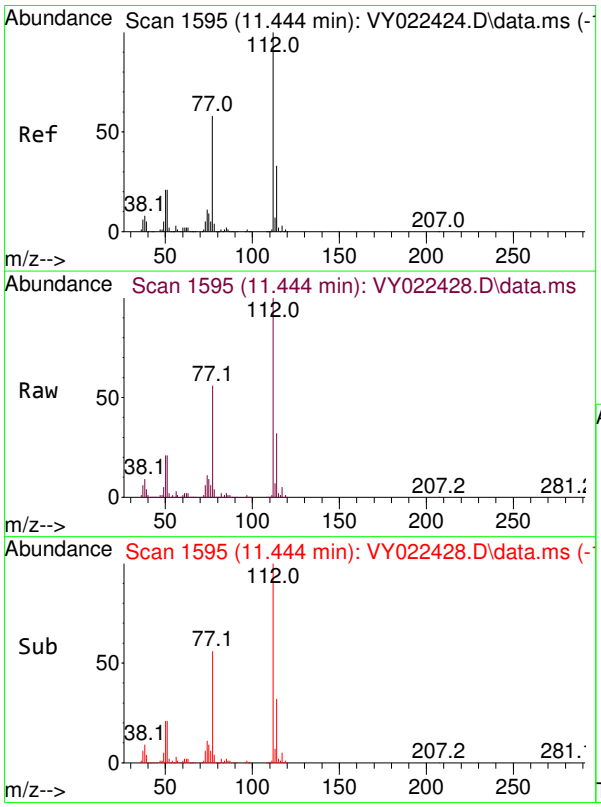


#64
Tetrachloroethene
Concen: 48.564 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. -0.006 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion:164 Resp: 153515

Ion	Ratio	Lower	Upper
164	100		
166	129.7	102.0	153.0
129	97.4	71.3	106.9
131	91.2	69.4	104.0





#65
Chlorobenzene
Concen: 51.703 ug/l
RT: 11.444 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion:112 Resp: 40919

Ion	Ratio	Lower	Upper
112	100		
114	31.7	26.1	39.1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

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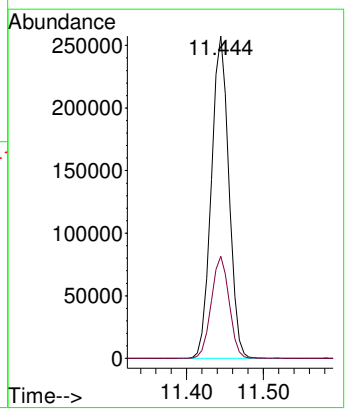
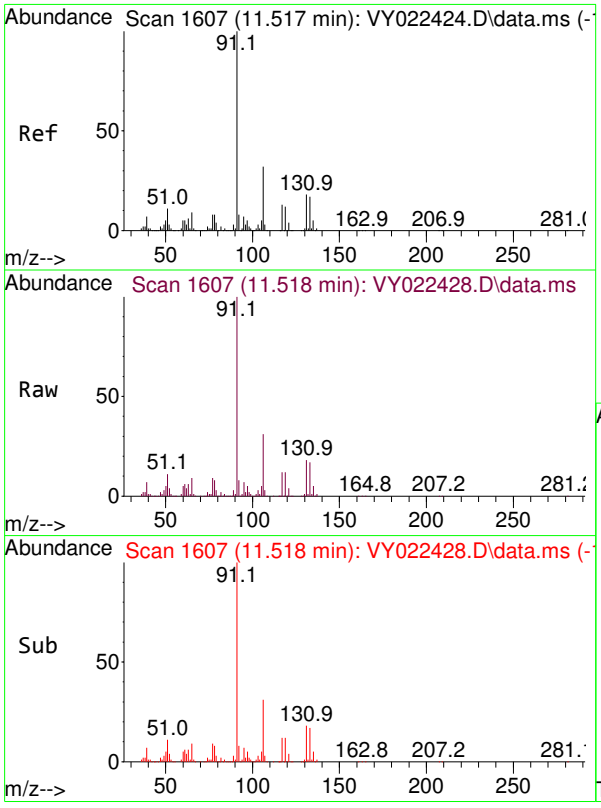
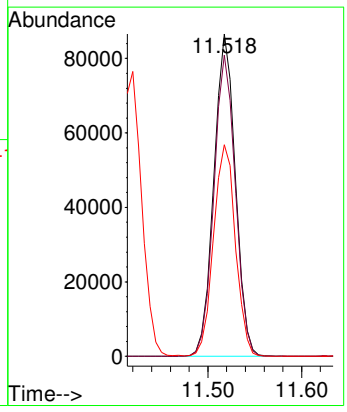


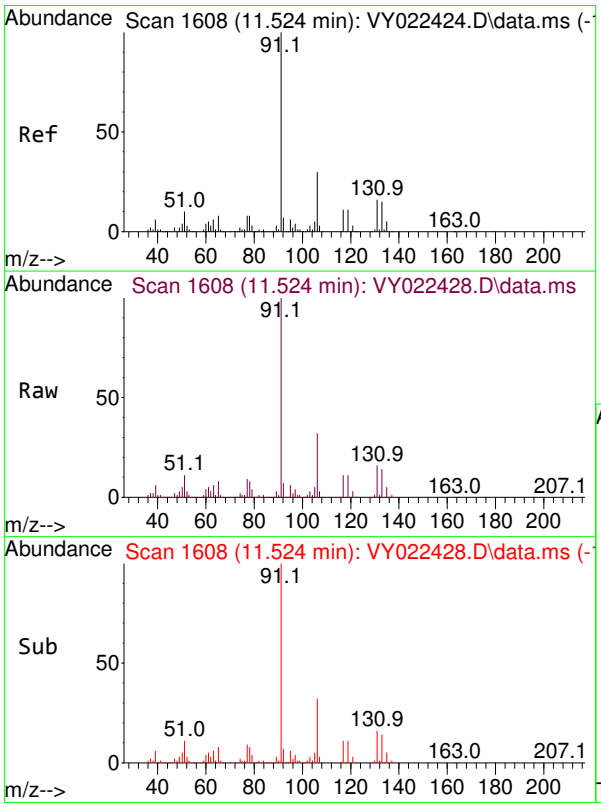


#66
1,1,1,2-Tetrachloroethane
Concen: 51.219 ug/l
RT: 11.518 min Scan# 1607
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion:131 Resp: 137345

Ion	Ratio	Lower	Upper
131	100		
133	93.5	46.6	139.8
119	67.0	33.3	99.8





#67
Ethyl Benzene
Concen: 50.971 ug/l
RT: 11.524 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 91 Resp: 74904

Ion	Ratio	Lower	Upper
91	100		
106	31.7	24.4	36.6

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Manual Integrations
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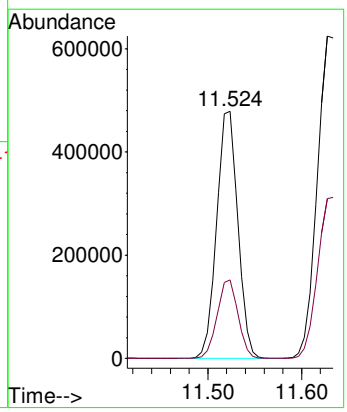
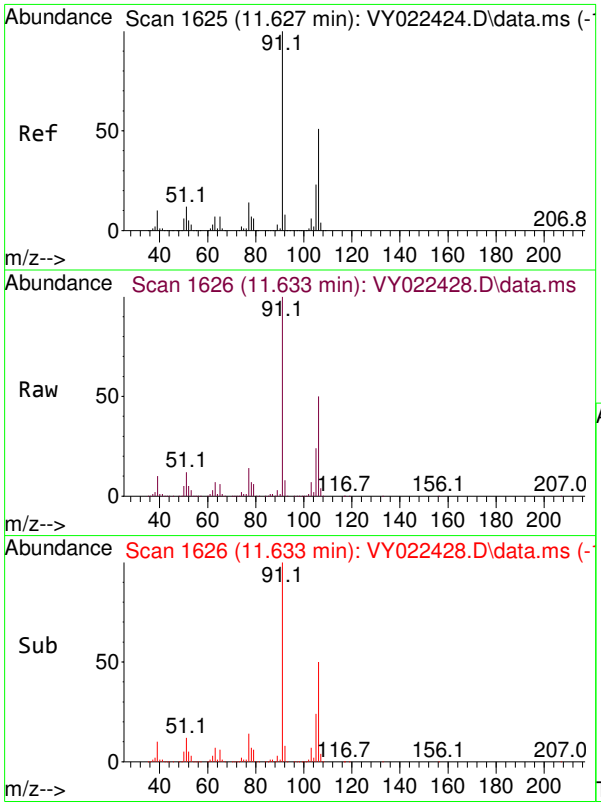
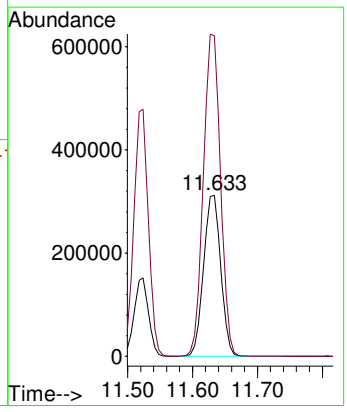


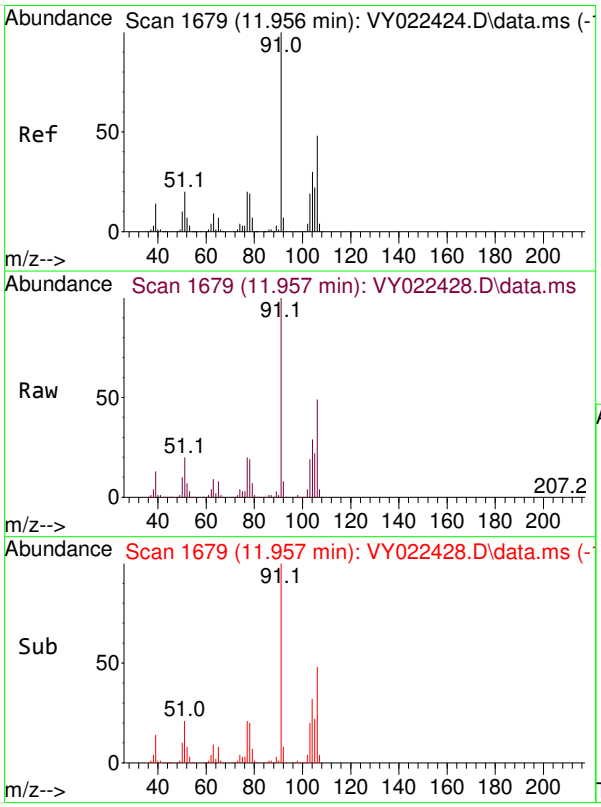


#68
m/p-Xylenes
Concen: 102.513 ug/l
RT: 11.633 min Scan# 1626
Delta R.T. 0.006 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion:106 Resp: 571164

Ion	Ratio	Lower	Upper
106	100		
91	199.8	159.8	239.8





#69
o-Xylene
Concen: 51.205 ug/l
RT: 11.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion:106 Resp: 26813

Ion	Ratio	Lower	Upper
106	100		
91	212.5	106.3	318.9

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Manual Integrations
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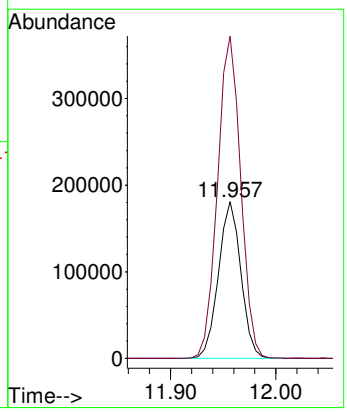
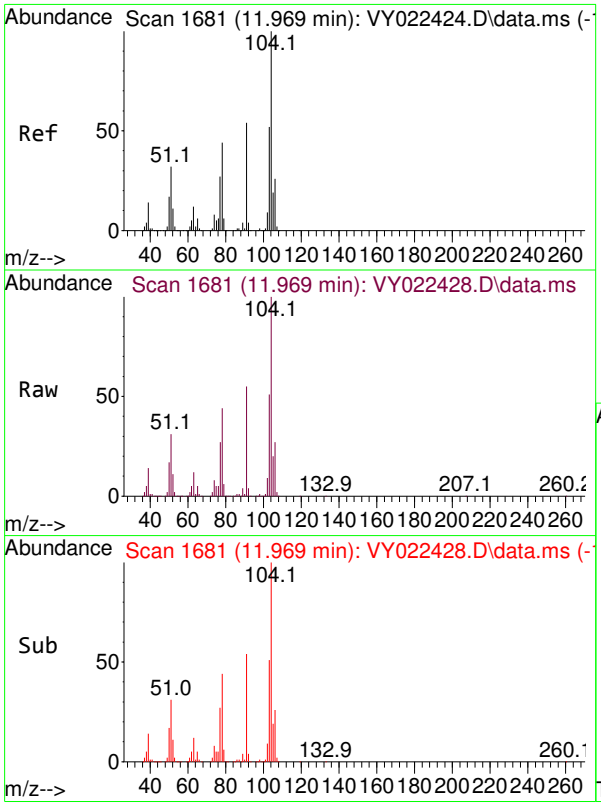
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

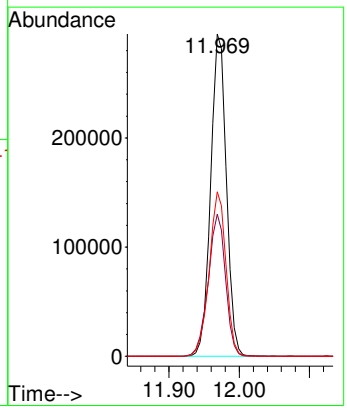


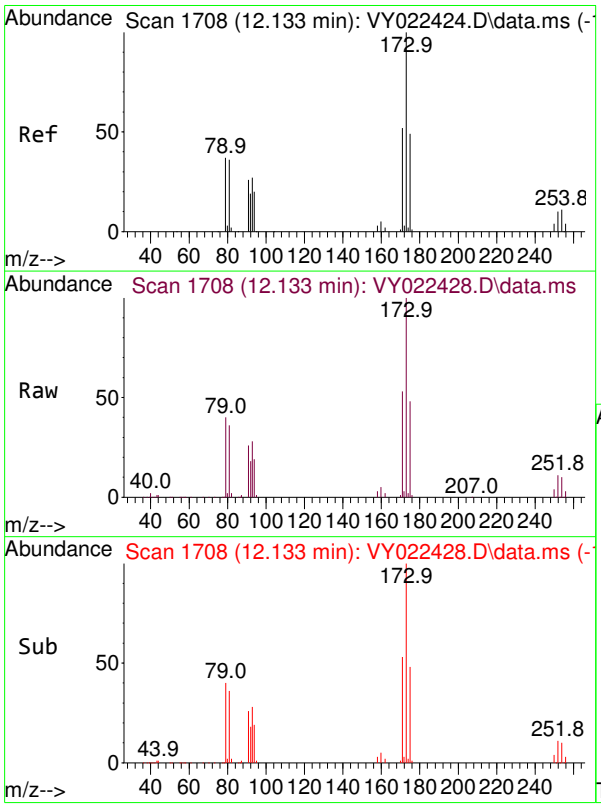


#70
Styrene
Concen: 52.397 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion:104 Resp: 456865

Ion	Ratio	Lower	Upper
104	100		
78	48.6	38.8	58.2
103	54.6	43.4	65.2





#71
Bromoform
Concen: 52.420 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion:173 Resp: 7362

Ion	Ratio	Lower	Upper
173	100		
175	50.0	24.3	73.0
254	0.1	0.1	0.1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

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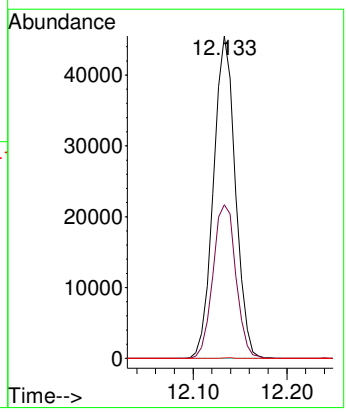
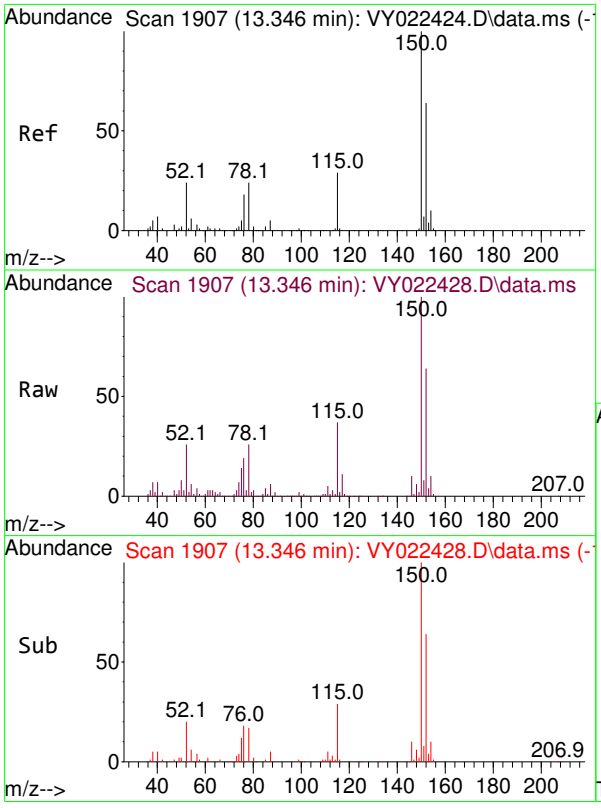
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

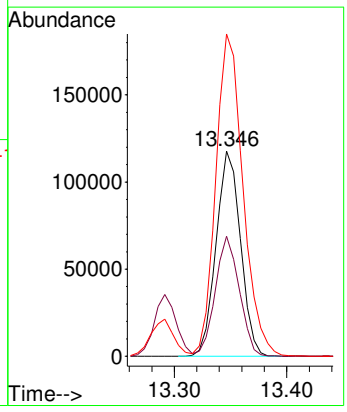


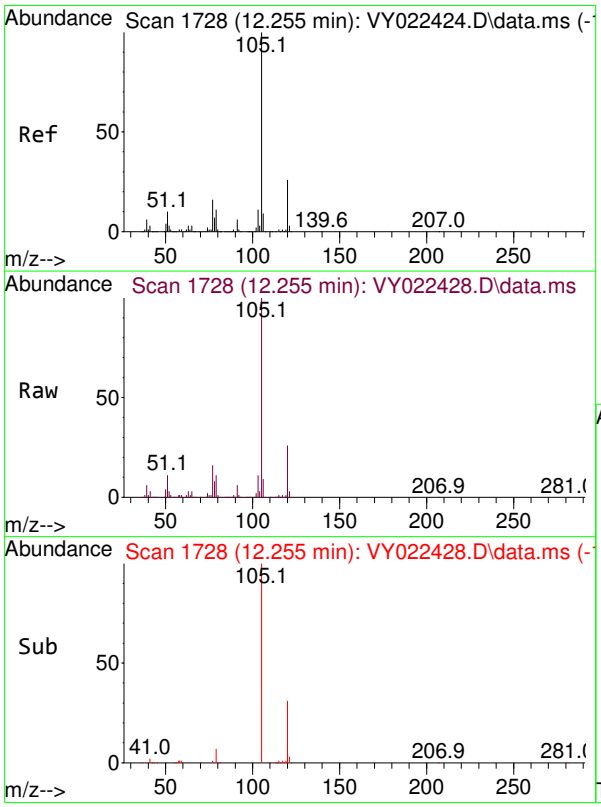


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion:152 Resp: 177242

Ion	Ratio	Lower	Upper
152	100		
115	57.4	28.4	85.3
150	175.4	0.0	345.8





#73
Isopropylbenzene
Concen: 50.060 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion:105 Resp: 69831

Ion	Ratio	Lower	Upper
105	100		
120	26.3	13.2	39.5

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Manual Integrations
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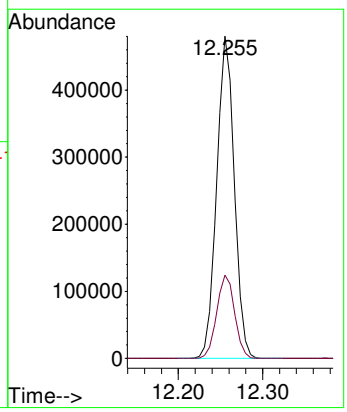
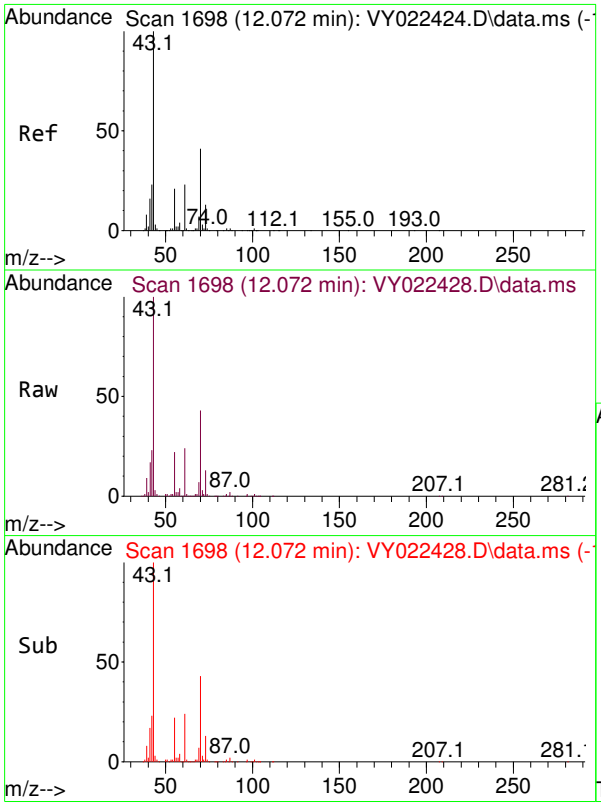
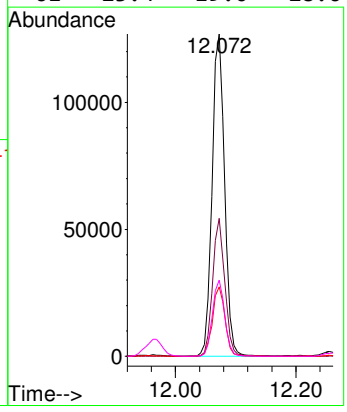


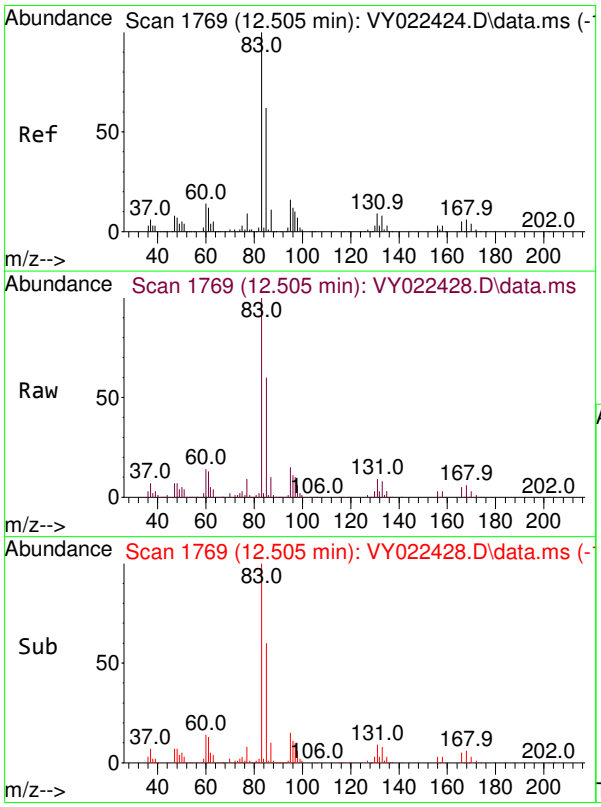


#74
N-amyl acetate
Concen: 53.559 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 43 Resp: 182818

Ion	Ratio	Lower	Upper
43	100		
70	41.6	33.0	49.4
55	21.9	17.5	26.3
61	23.4	19.0	28.6

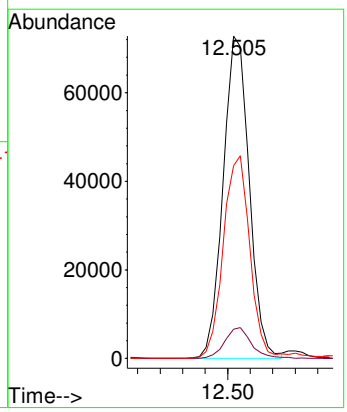




#75
1,1,2,2-Tetrachloroethane
Concen: 53.303 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 83 Resp: 11715

Ion	Ratio	Lower	Upper
83	100		
131	9.8	4.8	14.4
85	65.0	32.0	96.2



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

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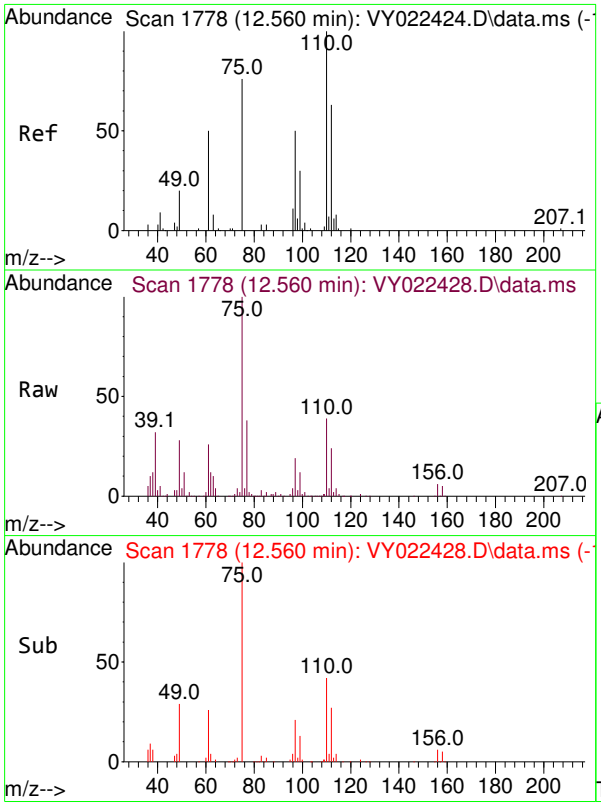
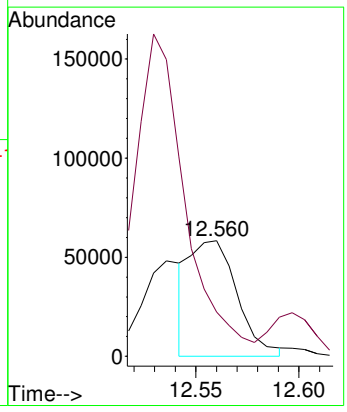
Supervised By :Mahesh Dadoda 05/28/2025

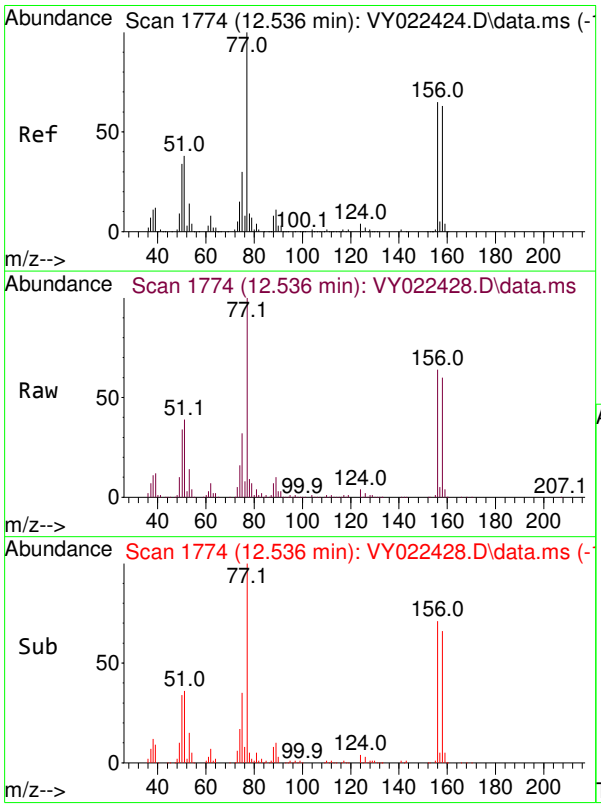


#76
1,2,3-Trichloropropane
Concen: 52.582 ug/l m
RT: 12.560 min Scan# 1778
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 75 Resp: 93352

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0





#77
Bromobenzene
Concen: 50.481 ug/l
RT: 12.536 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion:156 Resp: 15153

Ion	Ratio	Lower	Upper
156	100		
77	185.5	91.4	274.2
158	95.2	48.1	144.3

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Manual Integrations
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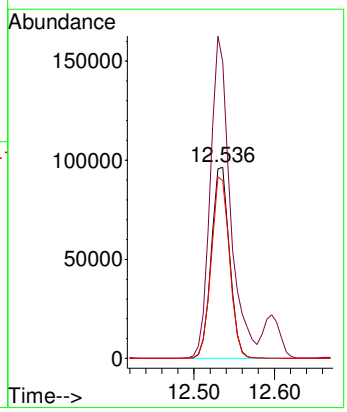
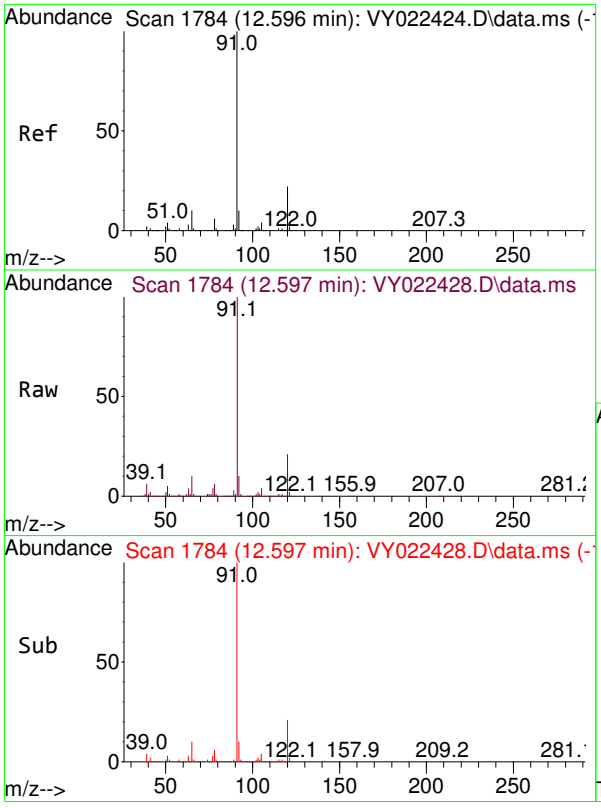
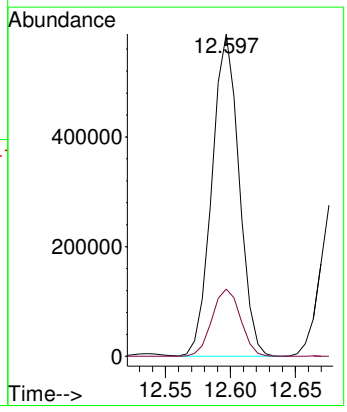


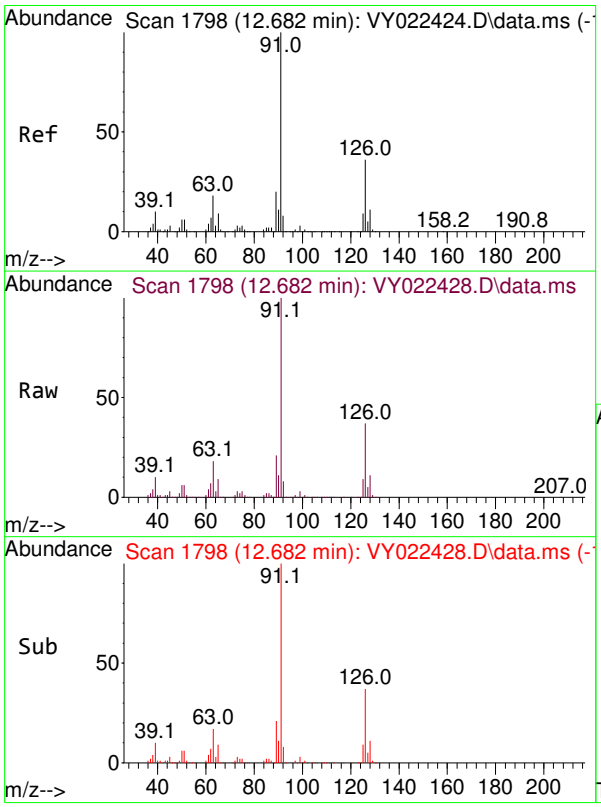


#78
n-propylbenzene
Concen: 50.973 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 91 Resp: 853326

Ion	Ratio	Lower	Upper
91	100		
120	21.9	11.2	33.5





#79
2-Chlorotoluene
Concen: 50.314 ug/l
RT: 12.682 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 91 Resp: 45594

Ion	Ratio	Lower	Upper
91	100		
126	35.0	17.4	52.3

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Manual Integrations
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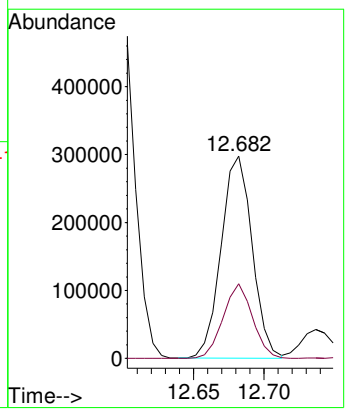
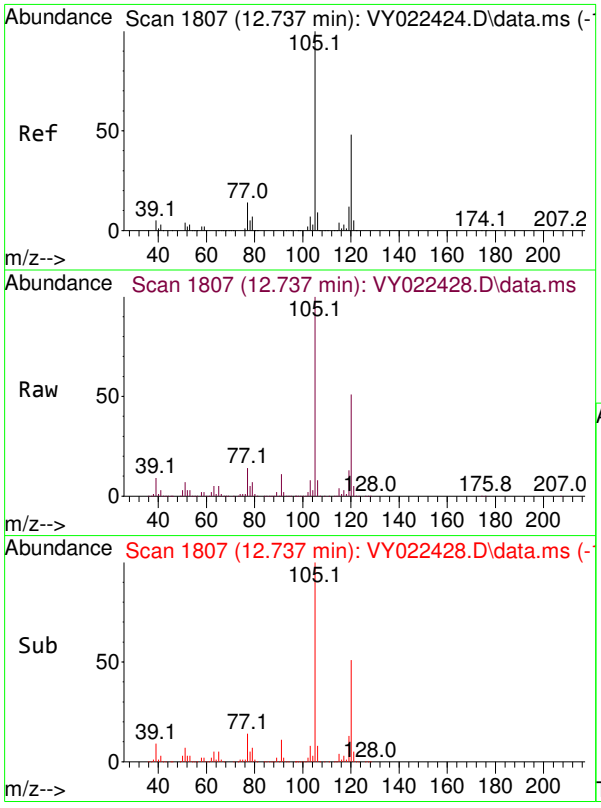
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

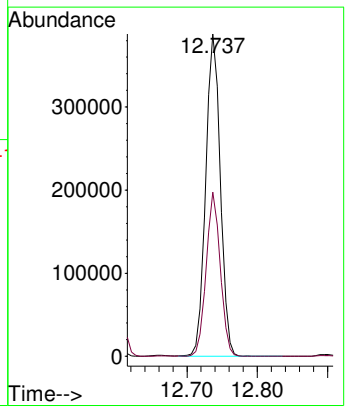


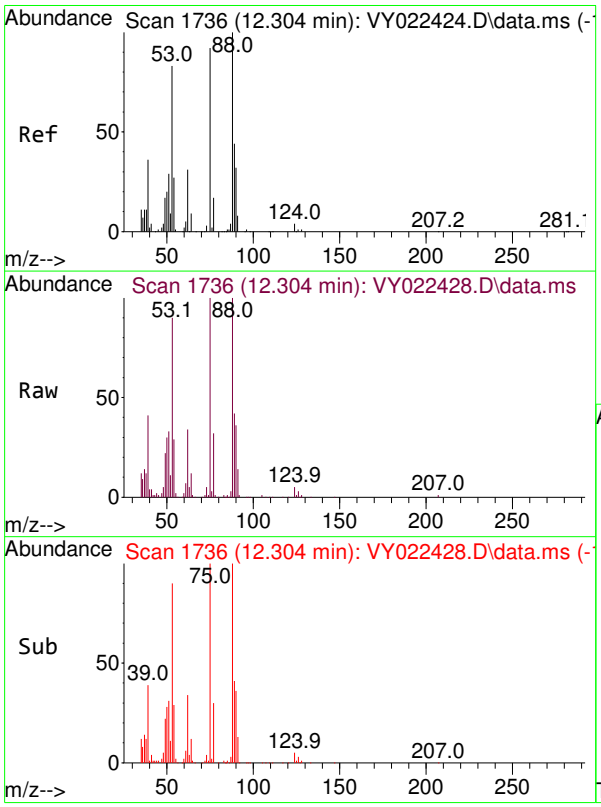


#80
1,3,5-Trimethylbenzene
Concen: 51.376 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion:105 Resp: 559964

Ion	Ratio	Lower	Upper
105	100		
120	49.2	24.3	73.0





#81
trans-1,4-Dichloro-2-butene
Concen: 51.064 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 75 Resp: 4008

Ion	Ratio	Lower	Upper
75	100		
53	93.6	75.1	112.7
89	44.0	37.4	56.0

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Manual Integrations
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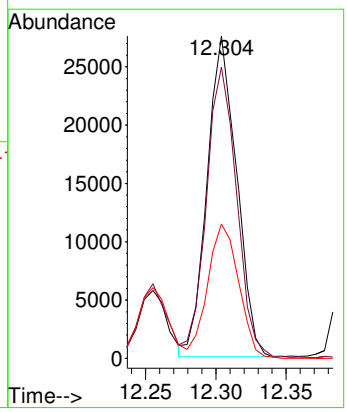
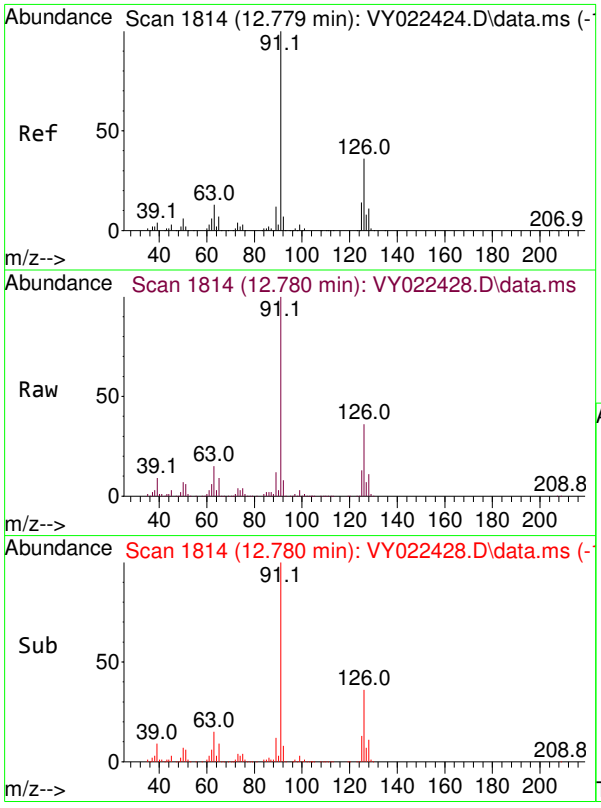
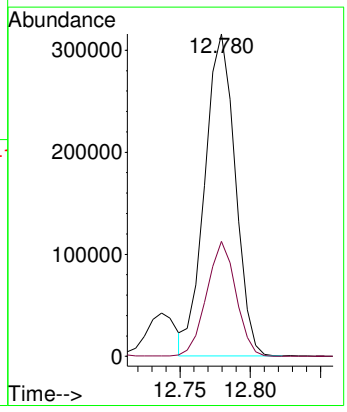


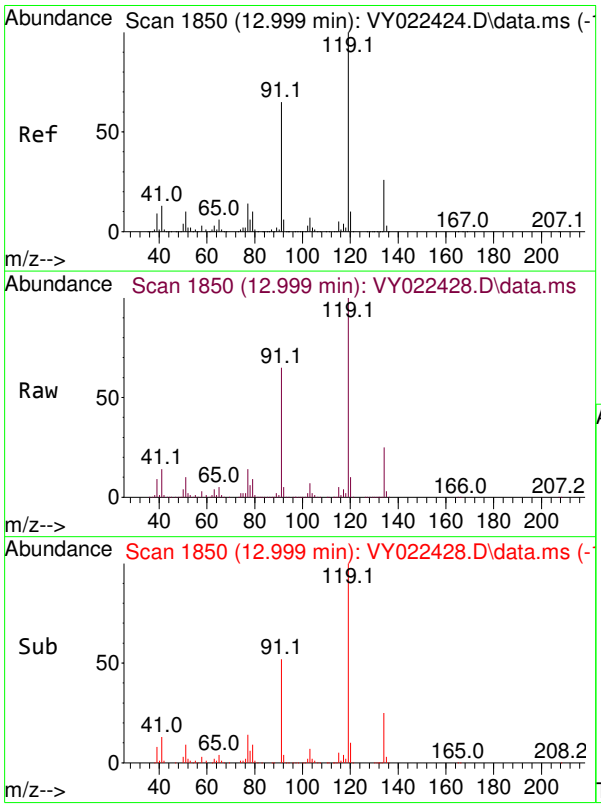


#82
4-Chlorotoluene
Concen: 50.944 ug/l
RT: 12.780 min Scan# 1814
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 91 Resp: 475462

Ion	Ratio	Lower	Upper
91	100		
126	34.4	17.2	51.6





#83
tert-Butylbenzene
Concen: 51.321 ug/l
RT: 12.999 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion:119 Resp: 50538

Ion	Ratio	Lower	Upper
119	100		
91	63.7	31.8	95.3
134	26.2	13.0	38.9

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Manual Integrations
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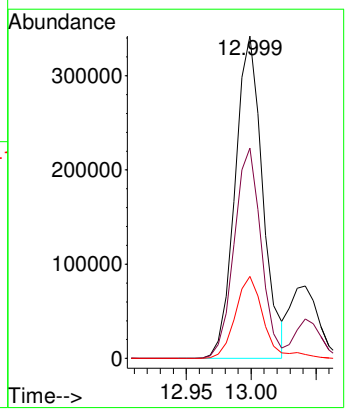
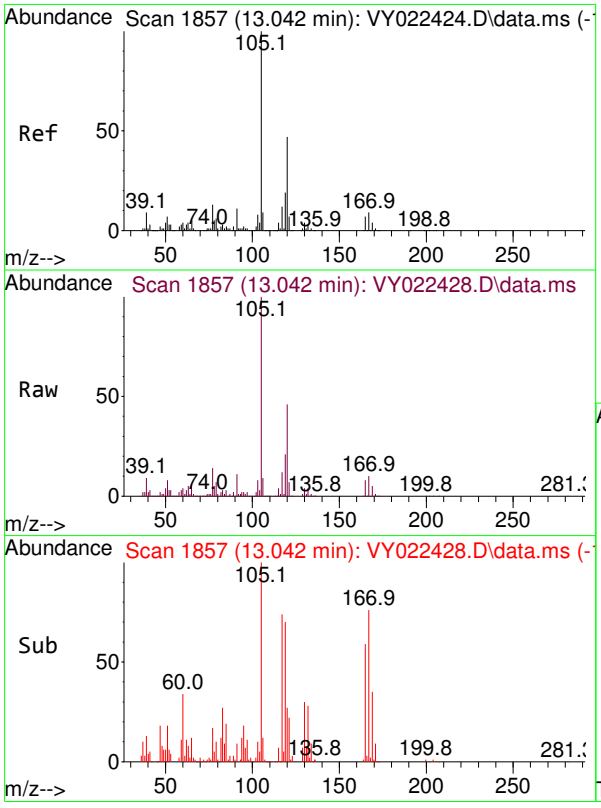
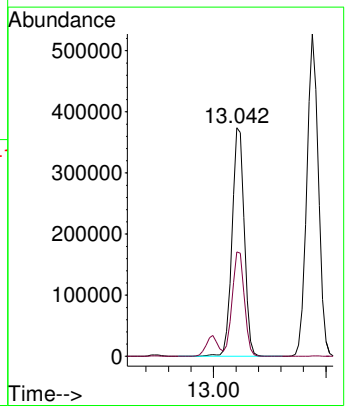


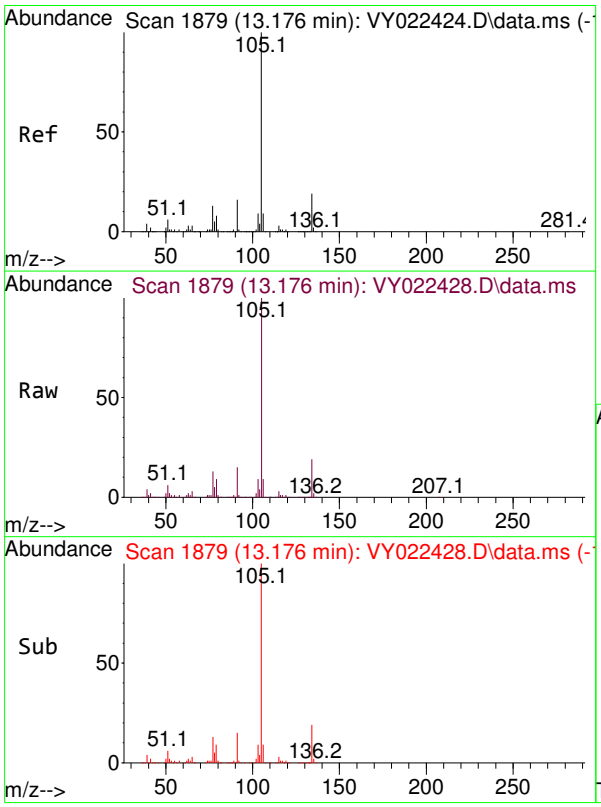


#84
1,2,4-Trimethylbenzene
Concen: 51.325 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion:105 Resp: 562945

Ion	Ratio	Lower	Upper
105	100		
120	45.4	22.9	68.5





#85
sec-Butylbenzene
Concen: 51.763 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion:105 Resp: 75595

Ion	Ratio	Lower	Upper
105	100		
134	19.8	9.7	29.1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Manual Integrations
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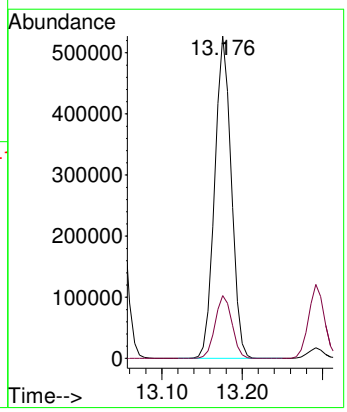
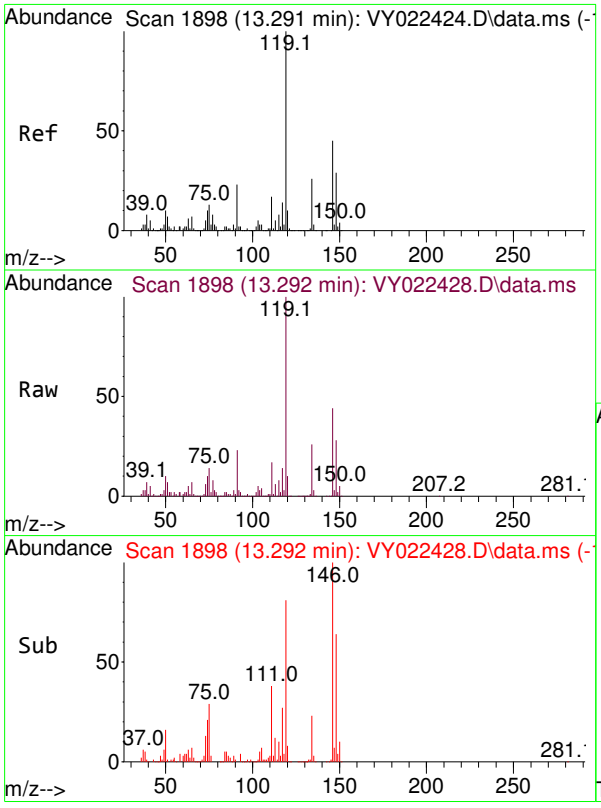
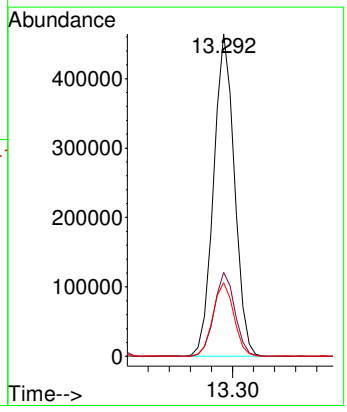


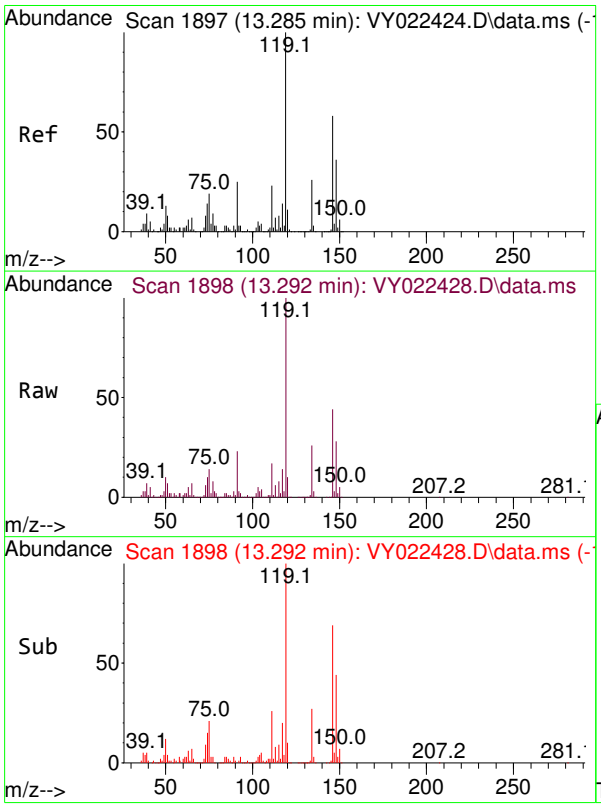


#86
p-Isopropyltoluene
Concen: 52.334 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion:119 Resp: 638231

Ion	Ratio	Lower	Upper
119	100		
134	26.0	13.0	39.0
91	22.9	11.6	34.8





#87
1,3-Dichlorobenzene
Concen: 51.396 ug/l
RT: 13.292 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

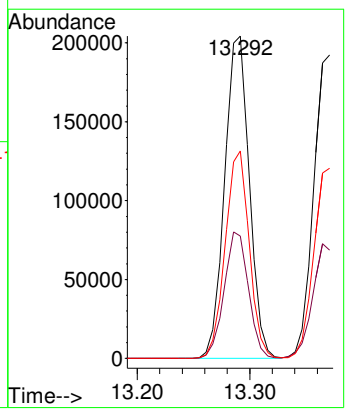
Tgt Ion:146 Resp: 31043

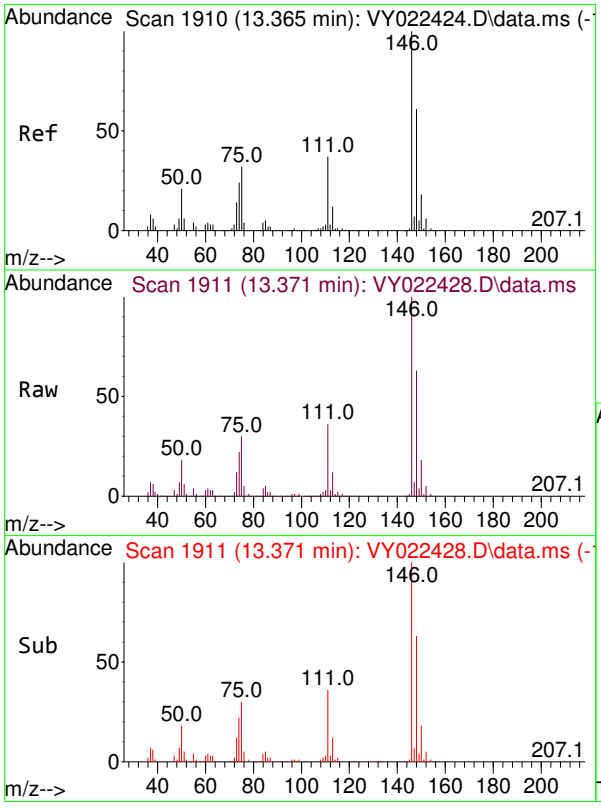
Ion	Ratio	Lower	Upper
146	100		
111	38.7	19.6	58.8
148	62.7	31.7	95.1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Manual Integrations
APPROVED

Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

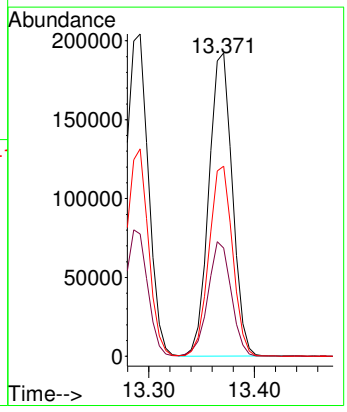


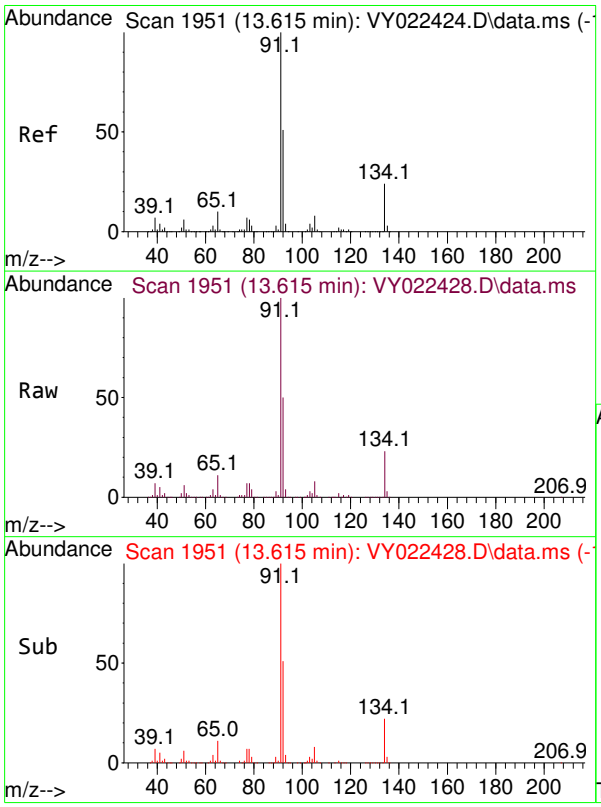


#88
1,4-Dichlorobenzene
Concen: 51.622 ug/l
RT: 13.371 min Scan# 1911
Delta R.T. 0.006 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion:146 Resp: 298140

Ion	Ratio	Lower	Upper
146	100		
111	37.6	18.7	56.1
148	63.1	31.4	94.3

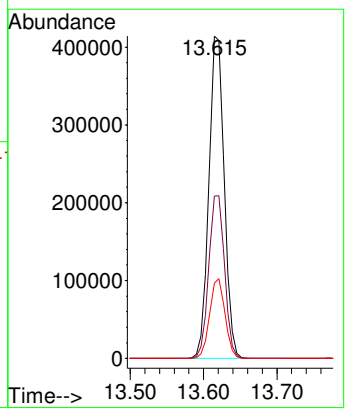




#89
n-Butylbenzene
Concen: 52.600 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 91 Resp: 60145

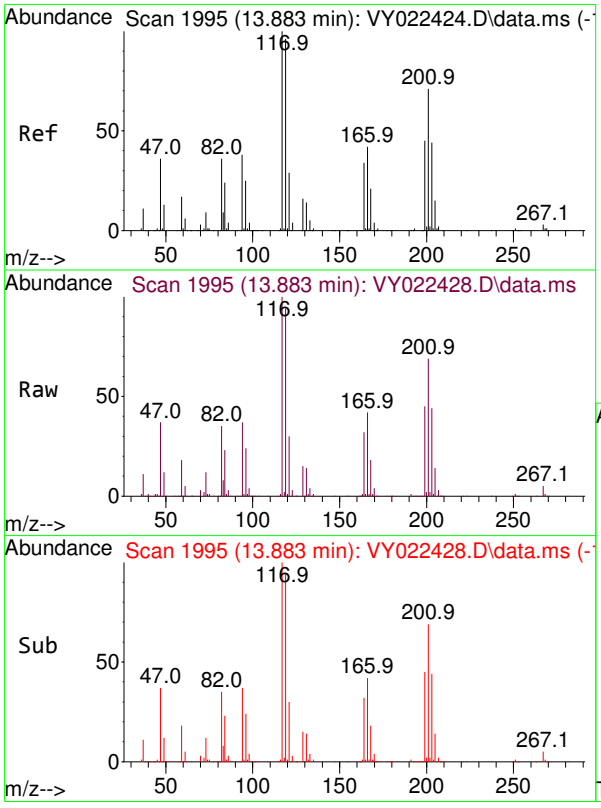
Ion	Ratio	Lower	Upper
91	100		
92	51.9	25.9	77.6
134	24.7	12.4	37.0



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Manual Integrations
APPROVED

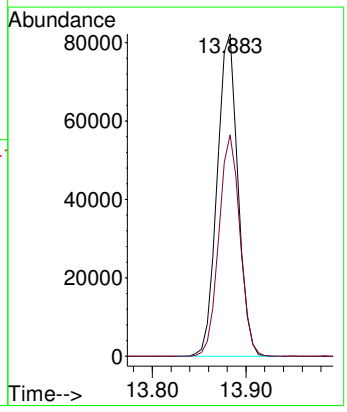
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

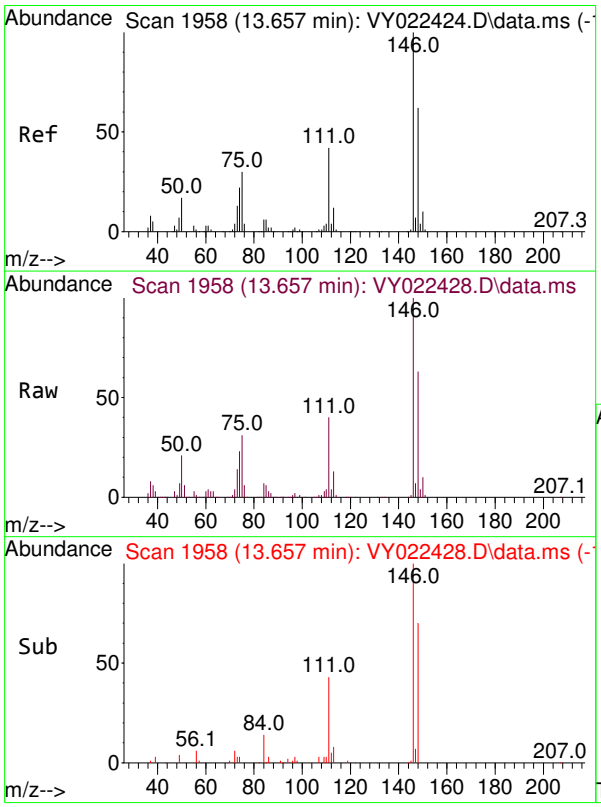


#90
Hexachloroethane
Concen: 51.881 ug/l
RT: 13.883 min Scan# 1995
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion:117 Resp: 125908

Ion	Ratio	Lower	Upper
117	100		
201	69.7	35.0	105.0

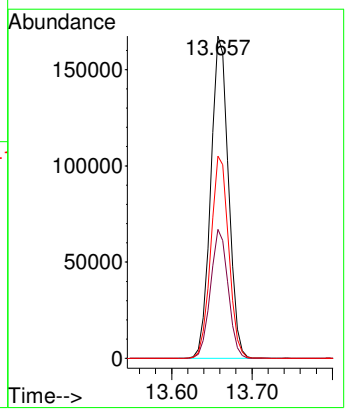




#91
1,2-Dichlorobenzene
Concen: 50.701 ug/l
RT: 13.657 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion:146 Resp: 25578

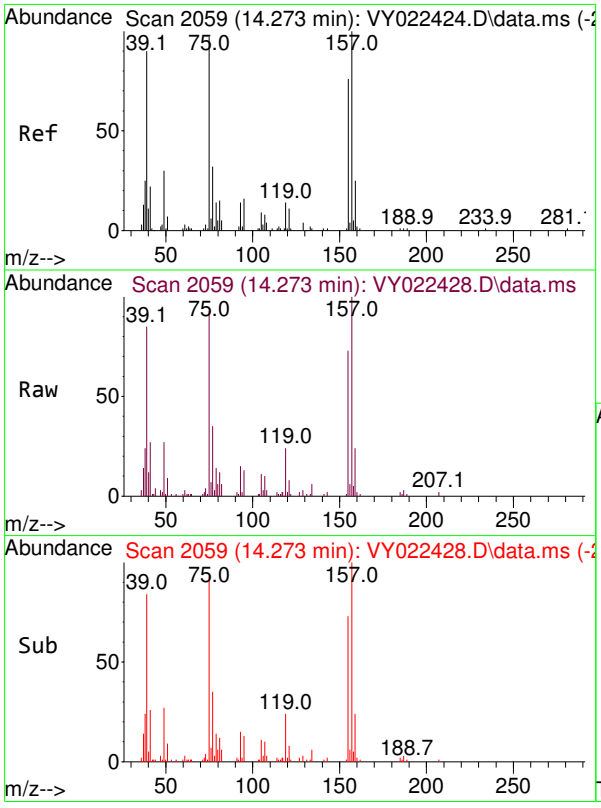
Ion	Ratio	Lower	Upper
146	100		
111	39.8	20.5	61.6
148	63.5	31.9	95.9



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Manual Integrations
APPROVED

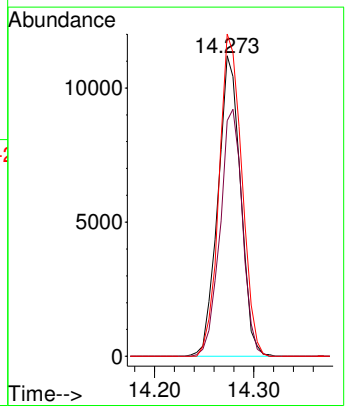
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

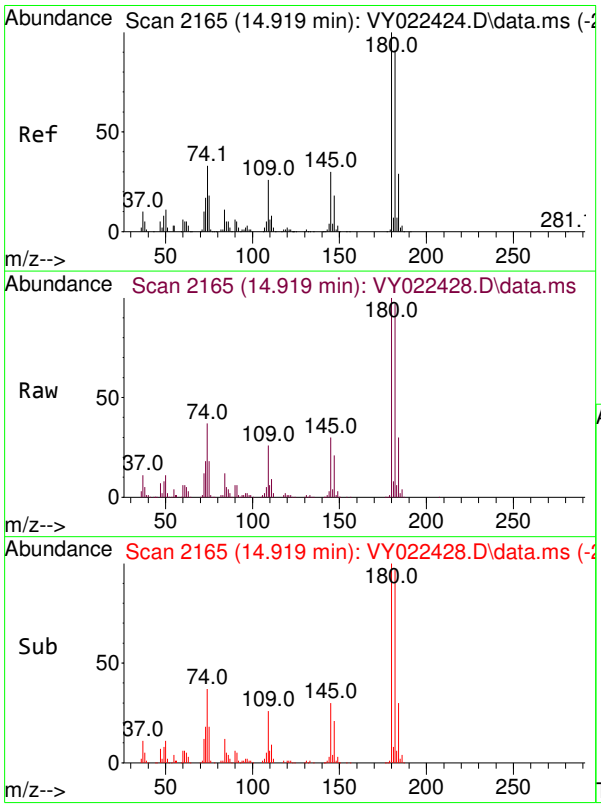


#92
1,2-Dibromo-3-Chloropropane
Concen: 52.462 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 75 Resp: 17817

Ion	Ratio	Lower	Upper
75	100		
155	81.1	42.3	126.8
157	108.0	54.4	163.3

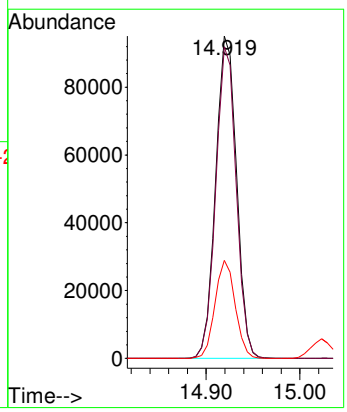




#93
1,2,4-Trichlorobenzene
Concen: 52.407 ug/l
RT: 14.919 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion:180 Resp: 14657

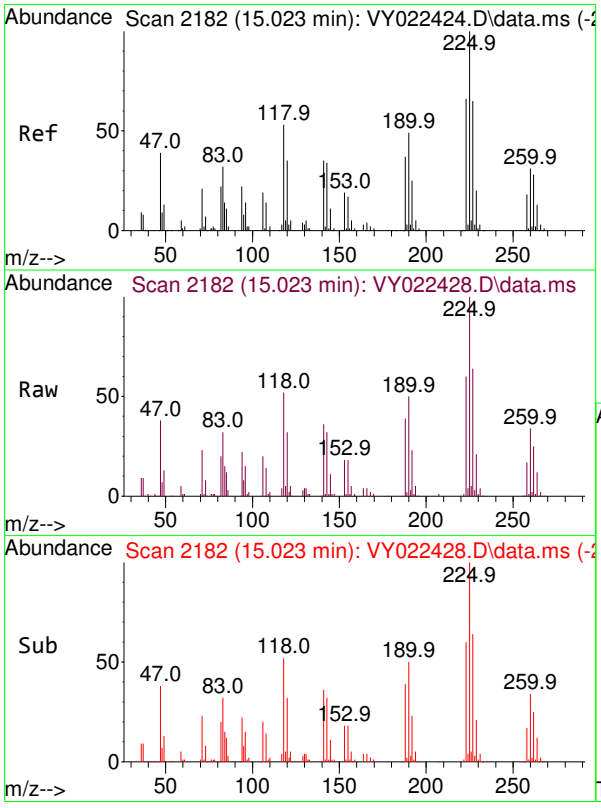
Ion	Ratio	Lower	Upper
180	100		
182	94.6	46.2	138.6
145	29.4	14.2	42.8



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Manual Integrations APPROVED

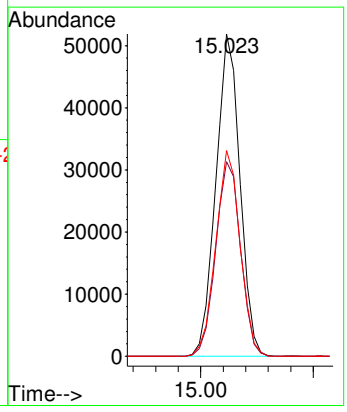
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

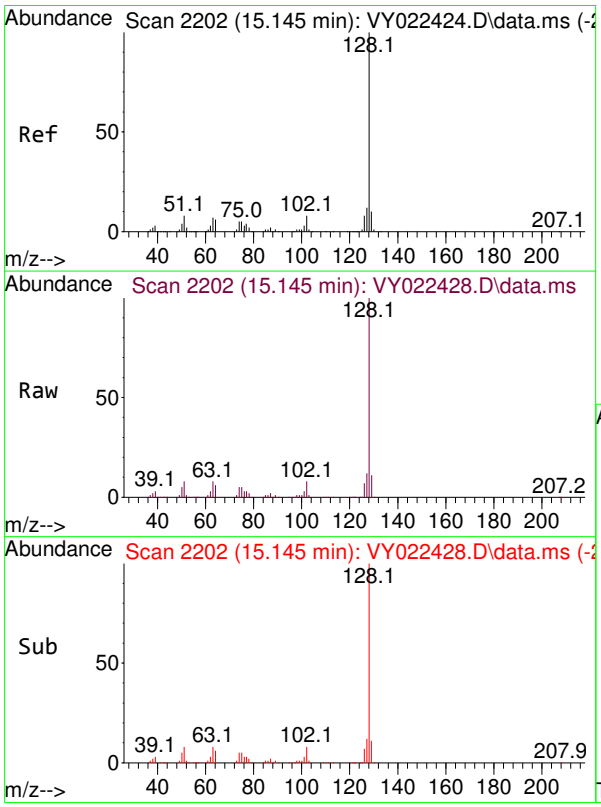


#94
Hexachlorobutadiene
Concen: 52.335 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion:225 Resp: 76816

Ion	Ratio	Lower	Upper
225	100		
223	62.3	32.6	97.7
227	64.5	33.0	99.0





#95
Naphthalene
Concen: 54.826 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

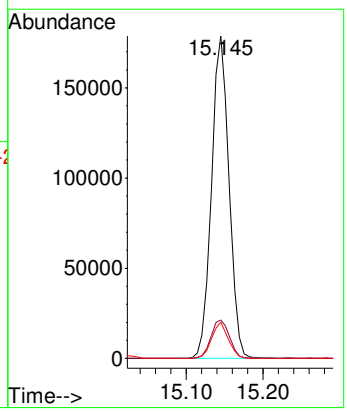
Tgt Ion:128 Resp: 28347

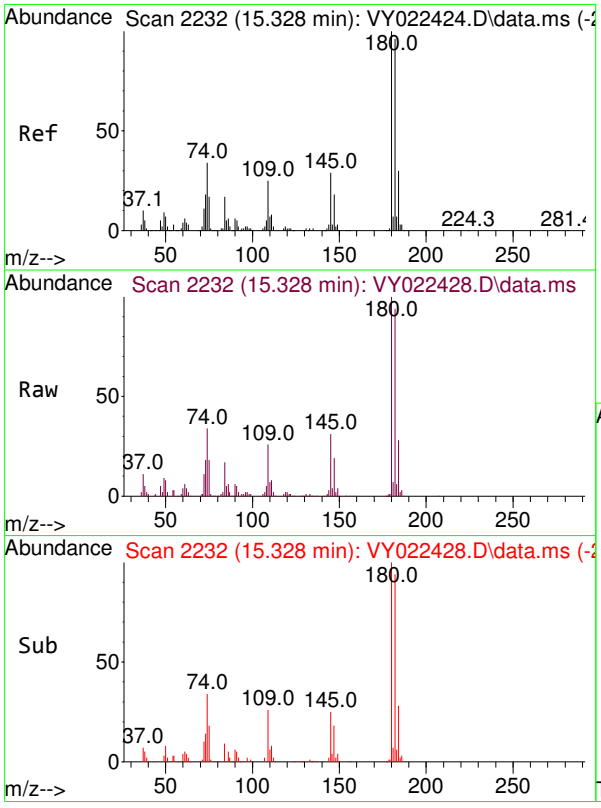
Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.2	15.4
129	10.8	8.5	12.7

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Manual Integrations
APPROVED

Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

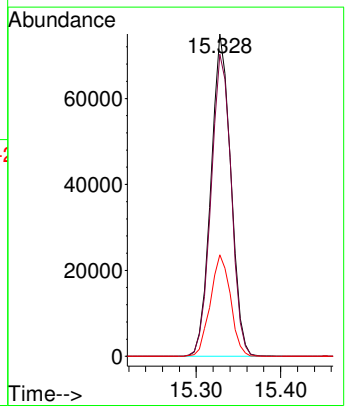




#96
1,2,3-Trichlorobenzene
Concen: 53.900 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion:180 Resp: 123635

Ion	Ratio	Lower	Upper
180	100		
182	94.8	48.1	144.3
145	31.8	14.9	44.5



Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022428.D
Acq On : 27 May 2025 11:56
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Quant Time: May 28 10:39:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	101	0.00
2	T	Dichlorodifluoromethane	0.477	0.409	14.3	97	0.00
3	P	Chloromethane	1.173	1.356	-15.6	114	0.00
4	C	Vinyl Chloride	1.425	1.492	-4.7#	103	0.00
5	T	Bromomethane	1.295	1.493	-15.3	118	0.00
6	T	Chloroethane	0.931	1.075	-15.5	107	0.00
7	T	Trichlorofluoromethane	1.203	1.345	-11.8	113	0.00
8	T	Diethyl Ether	0.277	0.293	-5.8	107	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.528	0.496	6.1	96	0.00
10	T	Methyl Iodide	0.595	0.581	2.4	91	0.00
11	T	Tert butyl alcohol	0.037	0.043	-16.2	121	0.00
12	CM	1,1-Dichloroethene	0.524	0.509	2.9#	101	0.00
13	T	Acrolein	0.056	0.059	-5.4	106	0.00
14	T	Allyl chloride	0.788	0.815	-3.4	105	0.00
15	T	Acrylonitrile	0.112	0.124	-10.7	112	0.00
16	T	Acetone	0.087	0.100	-14.9	119	0.00
17	T	Carbon Disulfide	1.672	1.666	0.4	102	0.00
18	T	Methyl Acetate	0.324	0.388	-19.8	127	-0.01
19	T	Methyl tert-butyl Ether	1.391	1.486	-6.8	108	0.00
20	T	Methylene Chloride	0.611	0.581	4.9	107	0.00
21	T	trans-1,2-Dichloroethene	0.572	0.588	-2.8	106	0.00
22	T	Diisopropyl ether	1.739	1.789	-2.9	104	0.00
23	T	Vinyl Acetate	0.999	1.049	-5.0	105	0.00
24	P	1,1-Dichloroethane	1.028	1.068	-3.9	105	0.00
25	T	2-Butanone	0.144	0.164	-13.9	117	-0.01
26	T	2,2-Dichloropropane	0.931	0.941	-1.1	103	0.00
27	T	cis-1,2-Dichloroethene	0.662	0.678	-2.4	105	0.00
28	T	Bromochloromethane	0.429	0.450	-4.9	103	0.00
29	T	Tetrahydrofuran	0.096	0.108	-12.5	114	0.00
30	C	Chloroform	1.013	1.041	-2.8#	102	0.00
31	T	Cyclohexane	1.013	0.903	10.9	97	0.00
32	T	1,1,1-Trichloroethane	0.919	0.924	-0.5	102	0.00
33	S	1,2-Dichloroethane-d4	0.527	0.536	-1.7	102	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	101	0.00
35	S	Dibromofluoromethane	0.293	0.298	-1.7	104	0.00
36	T	1,1-Dichloropropene	0.465	0.467	-0.4	102	0.00
37	T	Ethyl Acetate	0.197	0.216	-9.6	109	0.00
38	T	Carbon Tetrachloride	0.484	0.482	0.4	101	0.00
39	T	Methylcyclohexane	0.618	0.595	3.7	98	0.00
40	TM	Benzene	1.383	1.434	-3.7	104	0.00
41	T	Methacrylonitrile	0.120	0.116	3.3	100	-0.03
42	TM	1,2-Dichloroethane	0.365	0.382	-4.7	104	0.00
43	T	Isopropyl Acetate	0.432	0.469	-8.6	108	0.00
44	TM	Trichloroethene	0.342	0.356	-4.1	105	0.00
45	C	1,2-Dichloropropane	0.325	0.331	-1.8#	103	0.00
46	T	Dibromomethane	0.181	0.191	-5.5	106	0.00
47	T	Bromodichloromethane	0.467	0.483	-3.4	105	0.00
48	T	Methyl methacrylate	0.200	0.225	-12.5	114	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022428.D
Acq On : 27 May 2025 11:56
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Quant Time: May 28 10:39:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.002	0.002	0.0	107	0.00
50	S	Toluene-d8	1.194	1.215	-1.8	104	0.00
51	T	4-Methyl-2-Pentanone	0.213	0.244	-14.6	113	0.00
52	CM	Toluene	0.864	0.912	-5.6#	106	0.00
53	T	t-1,3-Dichloropropene	0.435	0.470	-8.0	109	0.00
54	T	cis-1,3-Dichloropropene	0.511	0.537	-5.1	107	0.00
55	T	1,1,2-Trichloroethane	0.229	0.244	-6.6	107	0.00
56	T	Ethyl methacrylate	0.329	0.369	-12.2	109	0.00
57	T	1,3-Dichloropropane	0.404	0.426	-5.4	106	0.00
58	T	2-Chloroethyl Vinyl ether	0.164	0.170	-3.7	103	0.00
59	T	2-Hexanone	0.140	0.164	-17.1	114	0.00
60	T	Dibromochloromethane	0.293	0.315	-7.5	105	0.00
61	T	1,2-Dibromoethane	0.210	0.227	-8.1	107	0.00
62	S	4-Bromofluorobenzene	0.361	0.366	-1.4	104	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	103	0.00
64	T	Tetrachloroethene	0.426	0.414	2.8	100	0.00
65	PM	Chlorobenzene	1.066	1.102	-3.4	107	0.00
66	T	1,1,1,2-Tetrachloroethane	0.361	0.370	-2.5	104	0.00
67	C	Ethyl Benzene	1.980	2.018	-1.9#	105	0.00
68	T	m/p-Xylenes	0.751	0.769	-2.4	105	0.00
69	T	o-Xylene	0.705	0.722	-2.4	105	0.00
70	T	Styrene	1.175	1.231	-4.8	106	0.00
71	P	Bromoform	0.189	0.198	-4.8	107	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	104	0.00
73	T	Isopropylbenzene	3.935	3.940	-0.1	106	0.00
74	T	N-amyl acetate	0.963	1.031	-7.1	107	0.00
75	P	1,1,2,2-Tetrachloroethane	0.620	0.661	-6.6	112	0.00
76	T	1,2,3-Trichloropropane	0.501	0.527	-5.2	111	0.00
77	T	Bromobenzene	0.847	0.855	-0.9	104	0.00
78	T	n-propylbenzene	4.723	4.814	-1.9	106	0.00
79	T	2-Chlorotoluene	2.556	2.572	-0.6	106	0.00
80	T	1,3,5-Trimethylbenzene	3.075	3.159	-2.7	107	0.00
81	T	trans-1,4-Dichloro-2-butene	0.221	0.226	-2.3	109	0.00
82	T	4-Chlorotoluene	2.633	2.683	-1.9	106	0.00
83	T	tert-Butylbenzene	2.778	2.851	-2.6	108	0.00
84	T	1,2,4-Trimethylbenzene	3.094	3.176	-2.7	106	0.00
85	T	sec-Butylbenzene	4.120	4.265	-3.5	107	0.00
86	T	p-Isopropyltoluene	3.440	3.601	-4.7	108	0.00
87	T	1,3-Dichlorobenzene	1.704	1.751	-2.8	107	0.00
88	T	1,4-Dichlorobenzene	1.629	1.682	-3.3	106	0.00
89	T	n-Butylbenzene	3.226	3.393	-5.2	106	0.00
90	T	Hexachloroethane	0.685	0.710	-3.6	107	0.00
91	T	1,2-Dichlorobenzene	1.423	1.443	-1.4	106	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.096	0.101	-5.2	112	0.00
93	T	1,2,4-Trichlorobenzene	0.789	0.827	-4.8	104	0.00
94	T	Hexachlorobutadiene	0.414	0.433	-4.6	106	0.00
95	T	Naphthalene	1.459	1.599	-9.6	107	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022428.D
Acq On : 27 May 2025 11:56
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Quant Time: May 28 10:39:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.647	0.698	-7.9	106	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022428.D
Acq On : 27 May 2025 11:56
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Quant Time: May 28 10:39:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	101	0.00
2	T	Dichlorodifluoromethane	50.000	42.867	14.3	97	0.00
3	P	Chloromethane	50.000	57.762	-15.5	114	0.00
4	C	Vinyl Chloride	50.000	52.322	-4.6#	103	0.00
5	T	Bromomethane	50.000	57.634	-15.3	118	0.00
6	T	Chloroethane	50.000	57.677	-15.4	107	0.00
7	T	Trichlorofluoromethane	50.000	55.933	-11.9	113	0.00
8	T	Diethyl Ether	50.000	52.801	-5.6	107	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	47.001	6.0	96	0.00
10	T	Methyl Iodide	50.000	48.805	2.4	91	0.00
11	T	Tert butyl alcohol	250.000	286.443	-14.6	121	0.00
12	CM	1,1-Dichloroethene	50.000	48.624	2.8#	101	0.00
13	T	Acrolein	250.000	266.723	-6.7	106	0.00
14	T	Allyl chloride	50.000	51.736	-3.5	105	0.00
15	T	Acrylonitrile	250.000	277.887	-11.2	112	0.00
16	T	Acetone	250.000	290.164	-16.1	119	0.00
17	T	Carbon Disulfide	50.000	49.820	0.4	102	0.00
18	T	Methyl Acetate	50.000	59.833	-19.7	127	-0.01
19	T	Methyl tert-butyl Ether	50.000	53.423	-6.8	108	0.00
20	T	Methylene Chloride	50.000	47.566	4.9	107	0.00
21	T	trans-1,2-Dichloroethene	50.000	51.401	-2.8	106	0.00
22	T	Diisopropyl ether	50.000	51.423	-2.8	104	0.00
23	T	Vinyl Acetate	250.000	262.697	-5.1	105	0.00
24	P	1,1-Dichloroethane	50.000	51.958	-3.9	105	0.00
25	T	2-Butanone	250.000	285.123	-14.0	117	-0.01
26	T	2,2-Dichloropropane	50.000	50.556	-1.1	103	0.00
27	T	cis-1,2-Dichloroethene	50.000	51.208	-2.4	105	0.00
28	T	Bromochloromethane	50.000	52.427	-4.9	103	0.00
29	T	Tetrahydrofuran	250.000	280.691	-12.3	114	0.00
30	C	Chloroform	50.000	51.416	-2.8#	102	0.00
31	T	Cyclohexane	50.000	44.566	10.9	97	0.00
32	T	1,1,1-Trichloroethane	50.000	50.290	-0.6	102	0.00
33	S	1,2-Dichloroethane-d4	50.000	50.905	-1.8	102	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	101	0.00
35	S	Dibromofluoromethane	50.000	50.924	-1.8	104	0.00
36	T	1,1-Dichloropropene	50.000	50.295	-0.6	102	0.00
37	T	Ethyl Acetate	50.000	54.775	-9.5	109	0.00
38	T	Carbon Tetrachloride	50.000	49.782	0.4	101	0.00
39	T	Methylcyclohexane	50.000	48.189	3.6	98	0.00
40	TM	Benzene	50.000	51.876	-3.8	104	0.00
41	T	Methacrylonitrile	50.000	48.279	3.4	100	-0.03
42	TM	1,2-Dichloroethane	50.000	52.242	-4.5	104	0.00
43	T	Isopropyl Acetate	50.000	54.305	-8.6	108	0.00
44	TM	Trichloroethene	50.000	52.041	-4.1	105	0.00
45	C	1,2-Dichloropropane	50.000	50.975	-2.0#	103	0.00
46	T	Dibromomethane	50.000	52.586	-5.2	106	0.00
47	T	Bromodichloromethane	50.000	51.745	-3.5	105	0.00
48	T	Methyl methacrylate	50.000	56.276	-12.6	114	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022428.D
Acq On : 27 May 2025 11:56
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Quant Time: May 28 10:39:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	1051.366	-5.1	107	0.00
50	S	Toluene-d8	50.000	50.886	-1.8	104	0.00
51	T	4-Methyl-2-Pentanone	250.000	287.032	-14.8	113	0.00
52	CM	Toluene	50.000	52.832	-5.7#	106	0.00
53	T	t-1,3-Dichloropropene	50.000	54.094	-8.2	109	0.00
54	T	cis-1,3-Dichloropropene	50.000	52.618	-5.2	107	0.00
55	T	1,1,2-Trichloroethane	50.000	53.168	-6.3	107	0.00
56	T	Ethyl methacrylate	50.000	55.994	-12.0	109	0.00
57	T	1,3-Dichloropropane	50.000	52.634	-5.3	106	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	259.493	-3.8	103	0.00
59	T	2-Hexanone	250.000	292.964	-17.2	114	0.00
60	T	Dibromochloromethane	50.000	53.666	-7.3	105	0.00
61	T	1,2-Dibromoethane	50.000	54.130	-8.3	107	0.00
62	S	4-Bromofluorobenzene	50.000	50.731	-1.5	104	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	103	0.00
64	T	Tetrachloroethene	50.000	48.564	2.9	100	0.00
65	PM	Chlorobenzene	50.000	51.703	-3.4	107	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	51.219	-2.4	104	0.00
67	C	Ethyl Benzene	50.000	50.971	-1.9#	105	0.00
68	T	m/p-Xylenes	100.000	102.513	-2.5	105	0.00
69	T	o-Xylene	50.000	51.205	-2.4	105	0.00
70	T	Styrene	50.000	52.397	-4.8	106	0.00
71	P	Bromoform	50.000	52.420	-4.8	107	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	104	0.00
73	T	Isopropylbenzene	50.000	50.060	-0.1	106	0.00
74	T	N-amyl acetate	50.000	53.559	-7.1	107	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	53.303	-6.6	112	0.00
76	T	1,2,3-Trichloropropane	50.000	52.582	-5.2	111	0.00
77	T	Bromobenzene	50.000	50.481	-1.0	104	0.00
78	T	n-propylbenzene	50.000	50.973	-1.9	106	0.00
79	T	2-Chlorotoluene	50.000	50.314	-0.6	106	0.00
80	T	1,3,5-Trimethylbenzene	50.000	51.376	-2.8	107	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	51.064	-2.1	109	0.00
82	T	4-Chlorotoluene	50.000	50.944	-1.9	106	0.00
83	T	tert-Butylbenzene	50.000	51.321	-2.6	108	0.00
84	T	1,2,4-Trimethylbenzene	50.000	51.325	-2.7	106	0.00
85	T	sec-Butylbenzene	50.000	51.763	-3.5	107	0.00
86	T	p-Isopropyltoluene	50.000	52.334	-4.7	108	0.00
87	T	1,3-Dichlorobenzene	50.000	51.396	-2.8	107	0.00
88	T	1,4-Dichlorobenzene	50.000	51.622	-3.2	106	0.00
89	T	n-Butylbenzene	50.000	52.600	-5.2	106	0.00
90	T	Hexachloroethane	50.000	51.881	-3.8	107	0.00
91	T	1,2-Dichlorobenzene	50.000	50.701	-1.4	106	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	52.462	-4.9	112	0.00
93	T	1,2,4-Trichlorobenzene	50.000	52.407	-4.8	104	0.00
94	T	Hexachlorobutadiene	50.000	52.335	-4.7	106	0.00
95	T	Naphthalene	50.000	54.826	-9.7	107	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022428.D
Acq On : 27 May 2025 11:56
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Quant Time: May 28 10:39:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	53.900	-7.8	106	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2118 SAS No.: Q2118 SDG No.: Q2118

Instrument ID: MSVOA_X Calibration Date/Time: 05/23/2025 09:24

Lab File ID: VX046331.D Init. Calib. Date(s): 05/05/2025 05/05/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:35 16:27

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Chloromethane	0.742	0.654	0.1	-11.86	20
Vinyl Chloride	0.691	0.592		-14.33	20
Bromomethane	0.320	0.288		-10	20
Chloroethane	0.369	0.378		2.44	20
Trichlorofluoromethane	1.021	0.993		-2.74	20
1,1,2-Trichlorotrifluoroethane	0.632	0.618		-2.21	20
1,1-Dichloroethene	0.593	0.550		-7.25	20
Acetone	0.374	0.393		5.08	20
Carbon Disulfide	1.406	1.170		-16.78	20
Methyl tert-butyl Ether	2.079	2.197		5.68	20
Methylene Chloride	0.716	0.663		-7.4	20
trans-1,2-Dichloroethene	0.596	0.560		-6.04	20
1,1-Dichloroethane	1.219	1.239	0.1	1.64	20
2-Butanone	0.543	0.592		9.02	20
Carbon Tetrachloride	0.544	0.551		1.29	20
cis-1,2-Dichloroethene	0.718	0.706		-1.67	20
Chloroform	1.271	1.286		1.18	20
1,1,1-Trichloroethane	1.101	1.128		2.45	20
Methylcyclohexane	0.623	0.597		-4.17	20
Benzene	1.417	1.421		0.28	20
1,2-Dichloroethane	0.612	0.628		2.61	20
Trichloroethene	0.341	0.343		0.59	20
1,2-Dichloropropane	0.352	0.374		6.25	20
Bromodichloromethane	0.547	0.595		8.77	20
4-Methyl-2-Pentanone	0.605	0.677		11.9	20
Toluene	0.869	0.878		1.04	20
t-1,3-Dichloropropene	0.487	0.542		11.29	20
cis-1,3-Dichloropropene	0.538	0.591		9.85	20
1,1,2-Trichloroethane	0.343	0.366		6.71	20
2-Hexanone	0.448	0.511		14.06	20
Dibromochloromethane	0.376	0.417		10.9	20
Tetrachloroethene	0.354	0.357		0.85	20
Chlorobenzene	1.094	1.084	0.3	-0.91	20
Ethyl Benzene	1.929	1.985		2.9	20
m/p-Xylenes	0.706	0.719		1.84	20
o-Xylene	0.688	0.714		3.78	20
Styrene	1.127	1.208		7.19	20
Bromoform	0.281	0.310	0.1	10.32	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2118 SAS No.: Q2118 SDG No.: Q2118

Instrument ID: MSVOA_X Calibration Date/Time: 05/23/2025 09:24

Lab File ID: VX046331.D Init. Calib. Date(s): 05/05/2025 05/05/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:35 16:27

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Isopropylbenzene	3.893	3.986		2.39	20
1,1,2,2-Tetrachloroethane	1.364	1.366	0.3	0.15	20
1,3-Dichlorobenzene	1.649	1.650		0.06	20
1,4-Dichlorobenzene	1.684	1.672		-0.71	20
1,2-Dichlorobenzene	1.655	1.688		1.99	20
1,2-Dichloroethane-d4	0.932	0.966		3.65	20
Dibromofluoromethane	0.360	0.384		6.67	20
Toluene-d8	1.246	1.307		4.9	20
4-Bromofluorobenzene	0.478	0.514		7.53	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046331.D
Acq On : 23 May 2025 09:24
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 23 22:55:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	89943	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	154938	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	137123	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	66629	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	86863	51.802	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 103.600%			
35) Dibromofluoromethane	5.379	113	59429	53.265	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 106.540%			
50) Toluene-d8	8.647	98	202439	52.423	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 104.840%			
62) 4-Bromofluorobenzene	11.079	95	79568	53.716	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 107.440%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	64545	46.886	ug/l	97
3) Chloromethane	1.306	50	58836	44.072	ug/l	99
4) Vinyl Chloride	1.374	62	53273	42.877	ug/l	98
5) Bromomethane	1.599	94	25935	45.004	ug/l	95
6) Chloroethane	1.672	64	33980	51.230	ug/l	99
7) Trichlorofluoromethane	1.880	101	89339	48.653	ug/l	98
8) Diethyl Ether	2.130	74	30446	48.706	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.318	101	55612	48.939	ug/l	98
10) Methyl Iodide	2.447	142	61527	45.758	ug/l	99
11) Tert butyl alcohol	2.965	59	64532	274.166	ug/l	99
12) 1,1-Dichloroethene	2.312	96	49469	46.384	ug/l	97
13) Acrolein	2.233	56	71978	268.519	ug/l	98
14) Allyl chloride	2.660	41	105111	51.568	ug/l	97
15) Acrylonitrile	3.062	53	181852	270.194	ug/l	98
16) Acetone	2.379	43	176899	263.114	ug/l	100
17) Carbon Disulfide	2.507	76	105198	41.606	ug/l	99
18) Methyl Acetate	2.703	43	98895	63.388	ug/l	99
19) Methyl tert-butyl Ether	3.111	73	197614	52.851	ug/l	99
20) Methylene Chloride	2.782	84	59651	46.299	ug/l	96
21) trans-1,2-Dichloroethene	3.087	96	50409	47.000	ug/l	92
22) Diisopropyl ether	3.757	45	207508	52.704	ug/l	98
23) Vinyl Acetate	3.715	43	910937	263.054	ug/l	99
24) 1,1-Dichloroethane	3.605	63	111459	50.826	ug/l	99
25) 2-Butanone	4.550	43	266316	272.843	ug/l	99
26) 2,2-Dichloropropane	4.471	77	89521	52.155	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	63472	49.159	ug/l	99
28) Bromochloromethane	4.891	49	54142	51.292	ug/l	100
29) Tetrahydrofuran	5.001	42	166716	272.575	ug/l	98
30) Chloroform	5.086	83	115698	50.618	ug/l	91
31) Cyclohexane	5.464	56	92255	46.166	ug/l	97
32) 1,1,1-Trichloroethane	5.379	97	101459	51.206	ug/l	99
36) 1,1-Dichloropropene	5.684	75	72479	48.349	ug/l	100
37) Ethyl Acetate	4.708	43	97648	52.723	ug/l	99
38) Carbon Tetrachloride	5.672	117	85412	50.709	ug/l	99
39) Methylcyclohexane	7.372	83	92549	47.954	ug/l	96
40) Benzene	6.031	78	220133	50.133	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046331.D
Acq On : 23 May 2025 09:24
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 23 22:55:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.916	41	56487m	58.302	ug/l		
42) 1,2-Dichloroethane	6.080	62	97361	51.375	ug/l		100
43) Isopropyl Acetate	6.336	43	158225	55.999	ug/l		99
44) Trichloroethene	7.123	130	53136	50.279	ug/l		99
45) 1,2-Dichloropropane	7.421	63	58016	53.136	ug/l		99
46) Dibromomethane	7.574	93	44309	51.454	ug/l		99
47) Bromodichloromethane	7.818	83	92253	54.392	ug/l		99
48) Methyl methacrylate	7.689	41	82925	57.467	ug/l		99
49) 1,4-Dioxane	7.659	88	28855	1053.147	ug/l		99
51) 4-Methyl-2-Pentanone	8.567	43	524686	279.753	ug/l		99
52) Toluene	8.714	92	136068	50.537	ug/l		99
53) t-1,3-Dichloropropene	8.976	75	84046	55.750	ug/l		99
54) cis-1,3-Dichloropropene	8.360	75	91612	54.982	ug/l		96
55) 1,1,2-Trichloroethane	9.147	97	56661	53.371	ug/l		97
56) Ethyl methacrylate	9.110	69	97493	57.619	ug/l		99
57) 1,3-Dichloropropane	9.305	76	98945	51.895	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.238	63	231542	268.416	ug/l		99
59) 2-Hexanone	9.427	43	395700	285.172	ug/l		100
60) Dibromochloromethane	9.518	129	64591	55.399	ug/l		99
61) 1,2-Dibromoethane	9.604	107	58405	52.931	ug/l		98
64) Tetrachloroethene	9.268	164	48977	50.481	ug/l		96
65) Chlorobenzene	10.073	112	148639	49.525	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.159	131	53302	52.010	ug/l		98
67) Ethyl Benzene	10.189	91	272231	51.457	ug/l		100
68) m/p-Xylenes	10.299	106	197275	101.954	ug/l		98
69) o-Xylene	10.640	106	97901	51.899	ug/l		98
70) Styrene	10.652	104	165627	53.599	ug/l		99
71) Bromoform	10.799	173	42491	55.224	ug/l	#	97
73) Isopropylbenzene	10.957	105	265569	51.196	ug/l		99
74) N-amyl acetate	10.841	43	138648	54.091	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.207	83	91010	50.066	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	81837m	51.027	ug/l		
77) Bromobenzene	11.195	156	59541	49.441	ug/l		100
78) n-propylbenzene	11.299	91	311660	51.673	ug/l		99
79) 2-Chlorotoluene	11.360	91	191122	49.128	ug/l		100
80) 1,3,5-Trimethylbenzene	11.451	105	224812	51.877	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.012	75	27002	54.814	ug/l		97
82) 4-Chlorotoluene	11.451	91	219638	50.910	ug/l		99
83) tert-Butylbenzene	11.713	119	222135	50.888	ug/l		99
84) 1,2,4-Trimethylbenzene	11.750	105	225740	51.438	ug/l		100
85) sec-Butylbenzene	11.890	105	280123	52.265	ug/l		100
86) p-Isopropyltoluene	12.006	119	232168	52.479	ug/l		100
87) 1,3-Dichlorobenzene	11.963	146	109948	50.025	ug/l		99
88) 1,4-Dichlorobenzene	12.036	146	111425	49.641	ug/l		99
89) n-Butylbenzene	12.329	91	210250	54.179	ug/l		99
90) Hexachloroethane	12.536	117	41404	53.122	ug/l		98
91) 1,2-Dichlorobenzene	12.329	146	112487	51.002	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	22183	55.085	ug/l		99
93) 1,2,4-Trichlorobenzene	13.585	180	66261	52.307	ug/l		99
94) Hexachlorobutadiene	13.725	225	29675	53.637	ug/l		99
95) Naphthalene	13.774	128	242188	52.127	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	67021	51.275	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046331.D
Acq On : 23 May 2025 09:24
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 23 22:55:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046331.D
Acq On : 23 May 2025 09:24
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 23 22:55:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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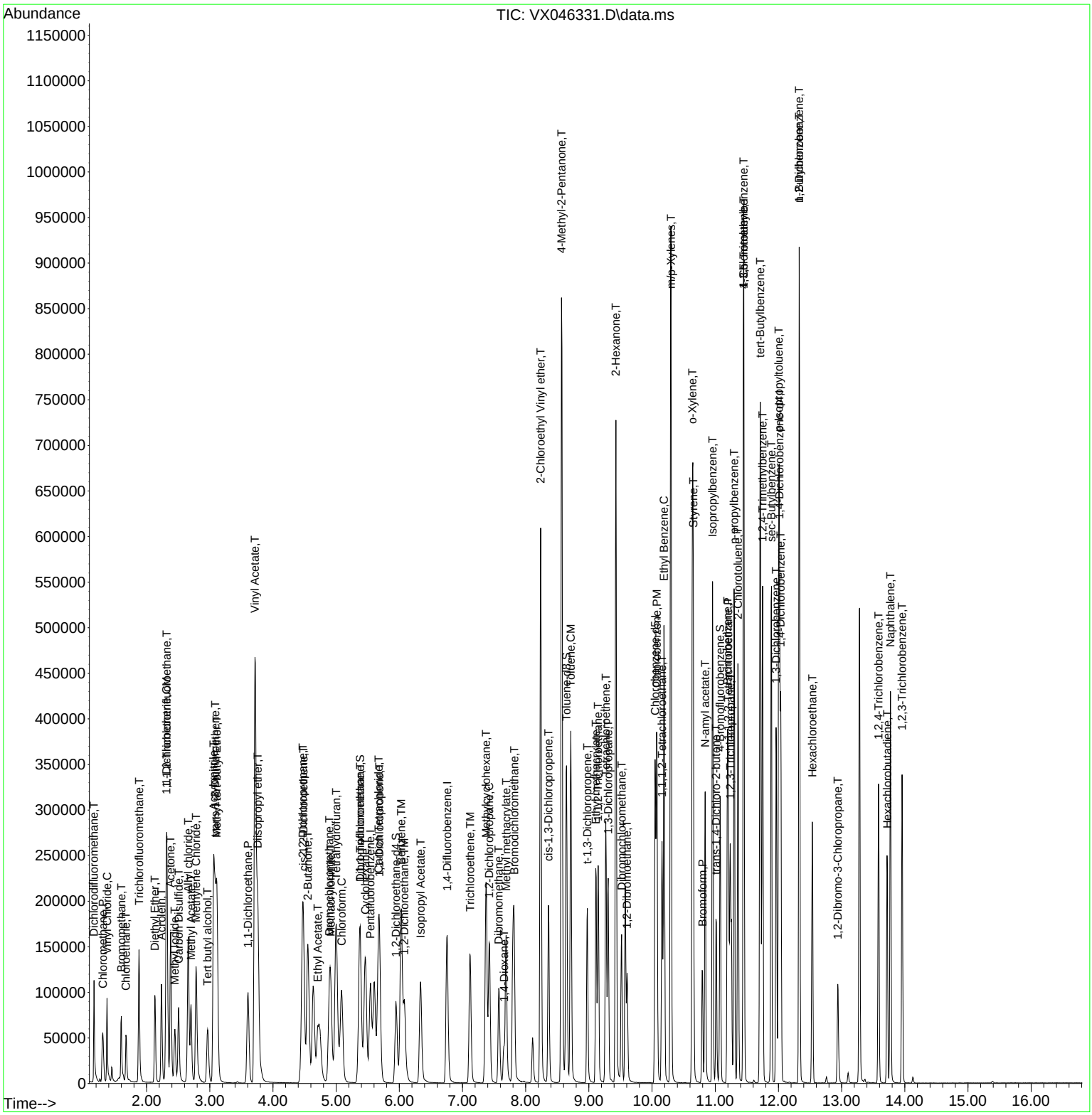
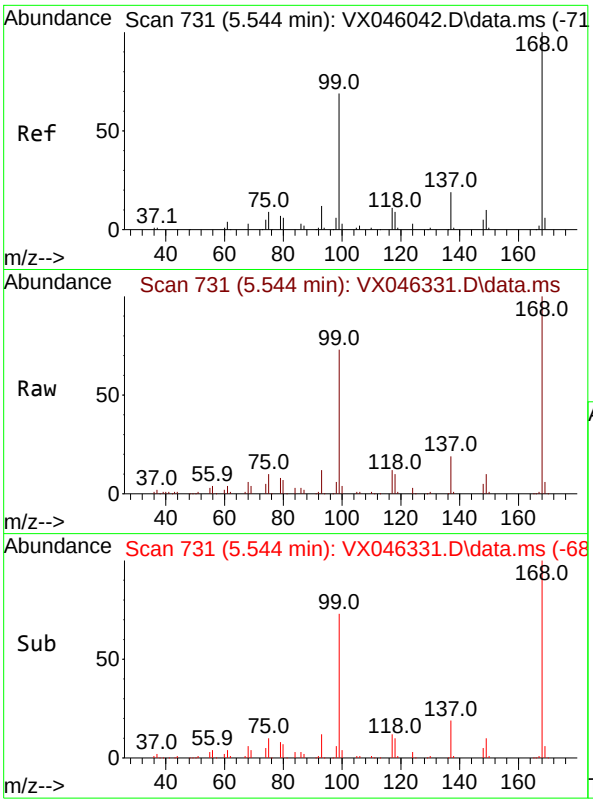
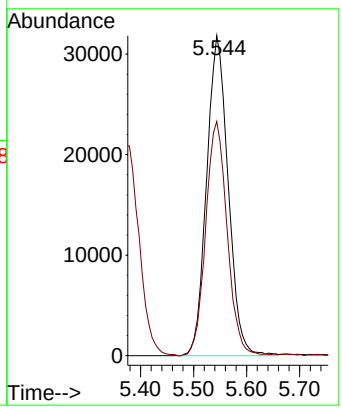




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion:168 Resp: 8994

Ion	Ratio	Lower	Upper
168	100		
99	73.2	54.9	82.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 05/26/2025
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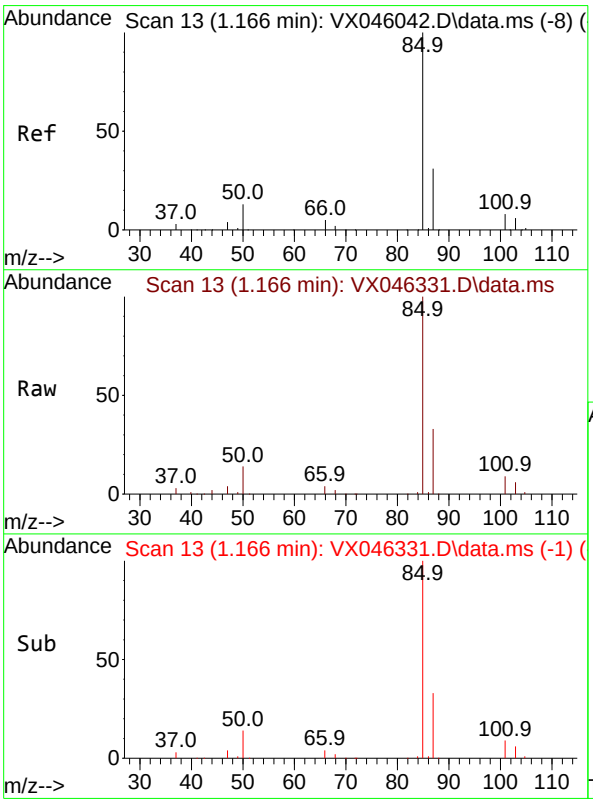
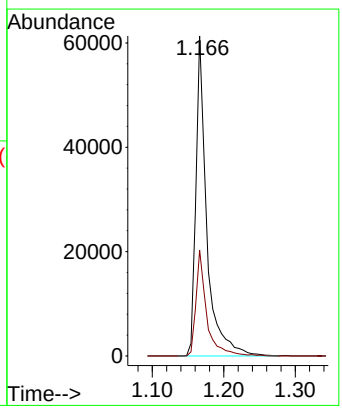
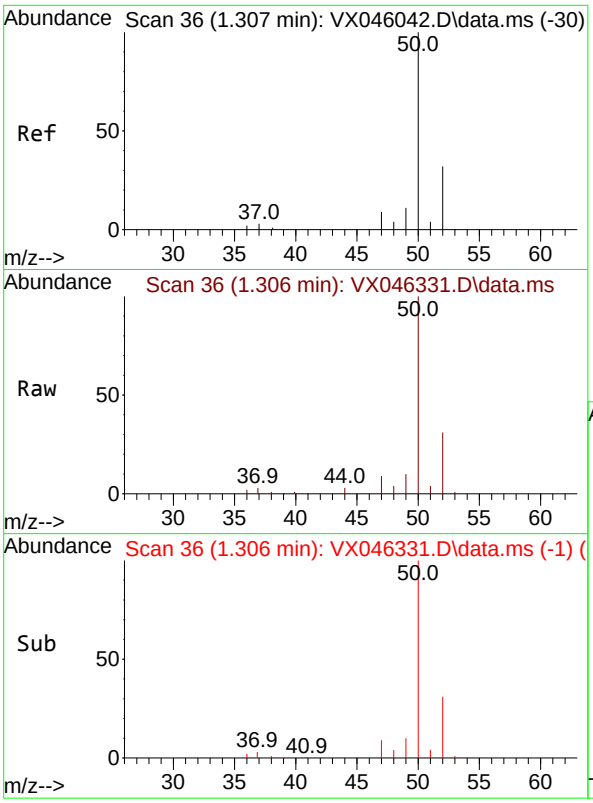


#2
Dichlorodifluoromethane
Concen: 46.886 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 85 Resp: 64545

Ion	Ratio	Lower	Upper
85	100		
87	33.1	15.7	47.1

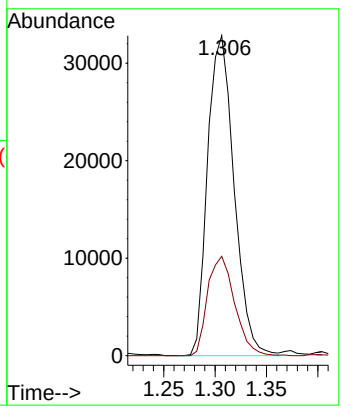




#3
Chloromethane
Concen: 44.072 ug/l
RT: 1.306 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 50 Resp: 5883

Ion	Ratio	Lower	Upper
50	100		
52	31.0	25.4	38.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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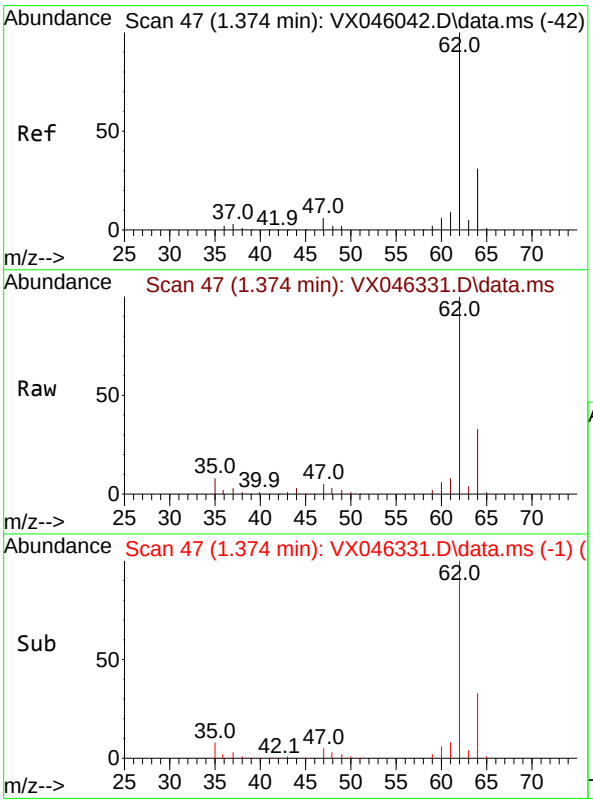
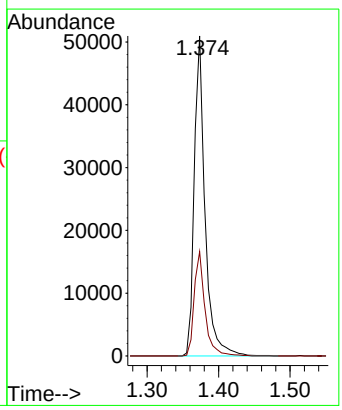
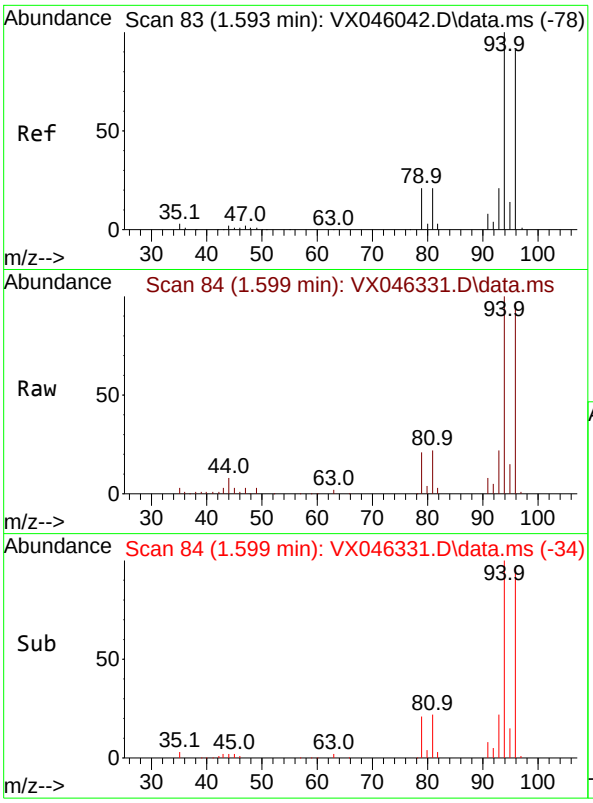


#4
Vinyl Chloride
Concen: 42.877 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 62 Resp: 53273

Ion	Ratio	Lower	Upper
62	100		
64	32.6	25.2	37.8

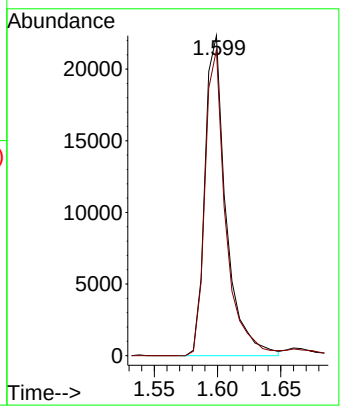




#5
Bromomethane
Concen: 45.004 ug/l
RT: 1.599 min Scan# 84
Delta R.T. 0.006 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 94 Resp: 2593

Ion	Ratio	Lower	Upper
94	100		
96	95.6	72.8	109.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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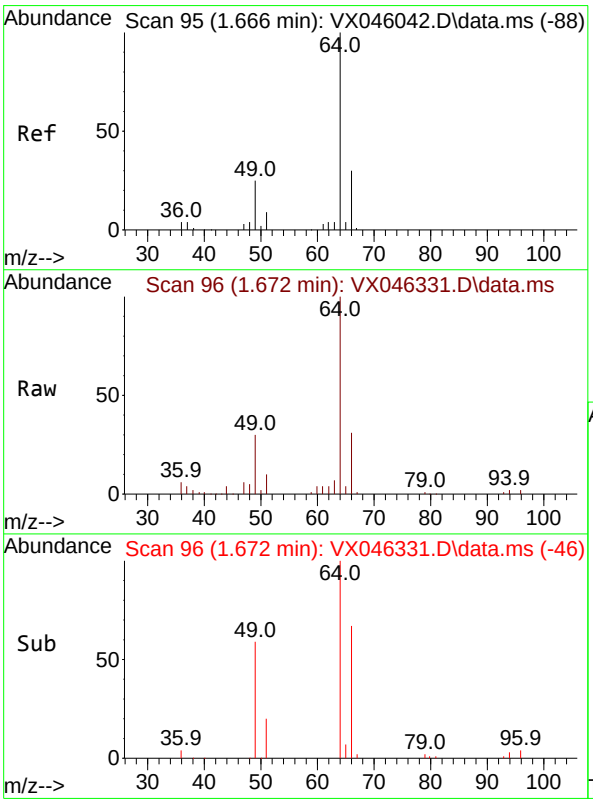
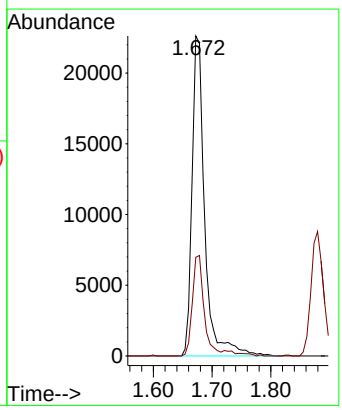
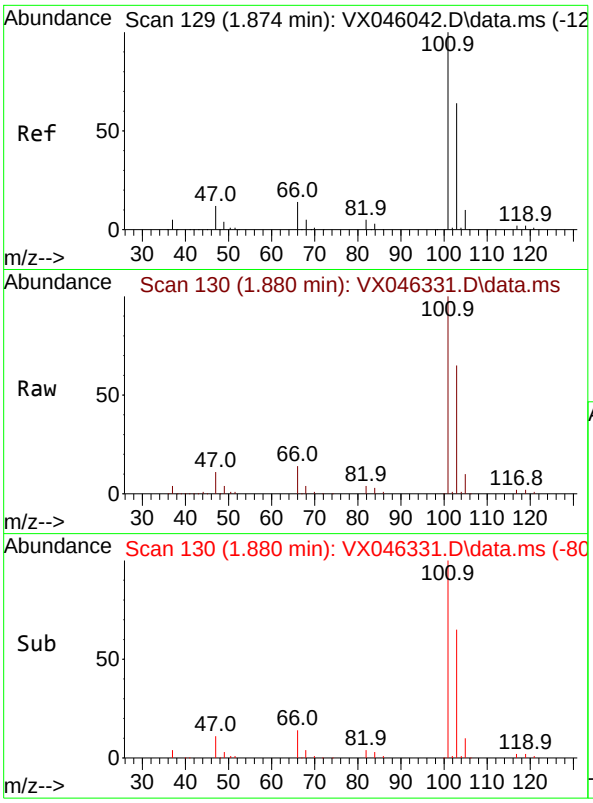


#6
Chloroethane
Concen: 51.230 ug/l
RT: 1.672 min Scan# 96
Delta R.T. 0.006 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 64 Resp: 33980

Ion	Ratio	Lower	Upper
64	100		
66	30.9	24.3	36.5

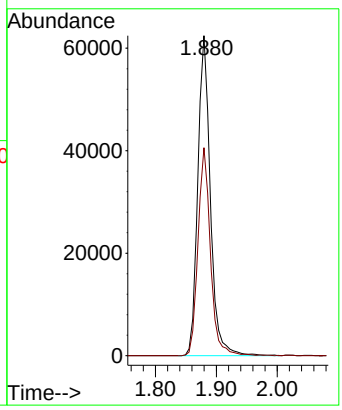




#7
Trichlorofluoromethane
Concen: 48.653 ug/l
RT: 1.880 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion:101 Resp: 8933

Ion	Ratio	Lower	Upper
101	100		
103	65.0	51.0	76.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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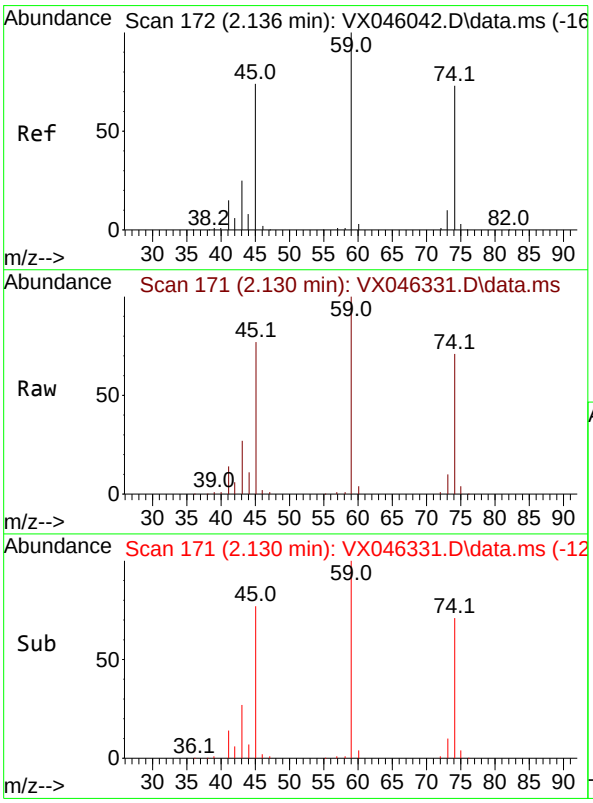
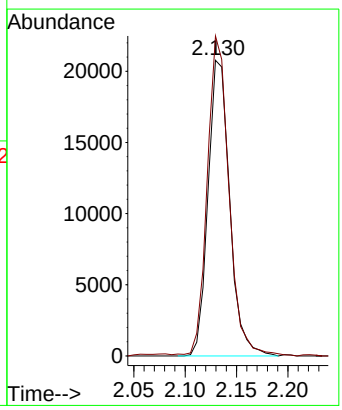
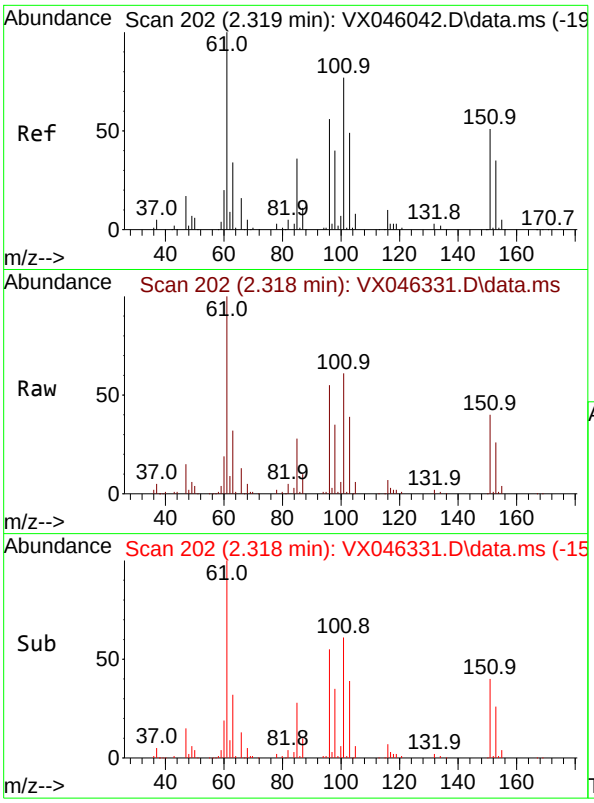


#8
Diethyl Ether
Concen: 48.706 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 74 Resp: 30446

Ion	Ratio	Lower	Upper
74	100		
45	108.6	54.9	164.8

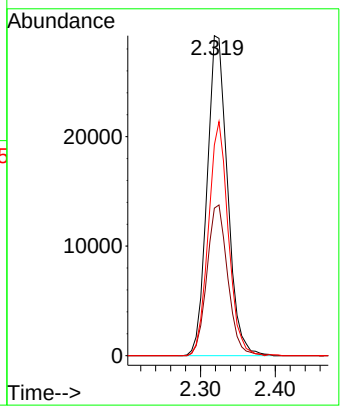




#9
1,1,2-Trichlorotrifluoroethane
Concen: 48.939 ug/l
RT: 2.318 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion:101 Resp: 5561

Ion	Ratio	Lower	Upper
101	100		
85	48.0	38.6	58.0
151	71.0	55.2	82.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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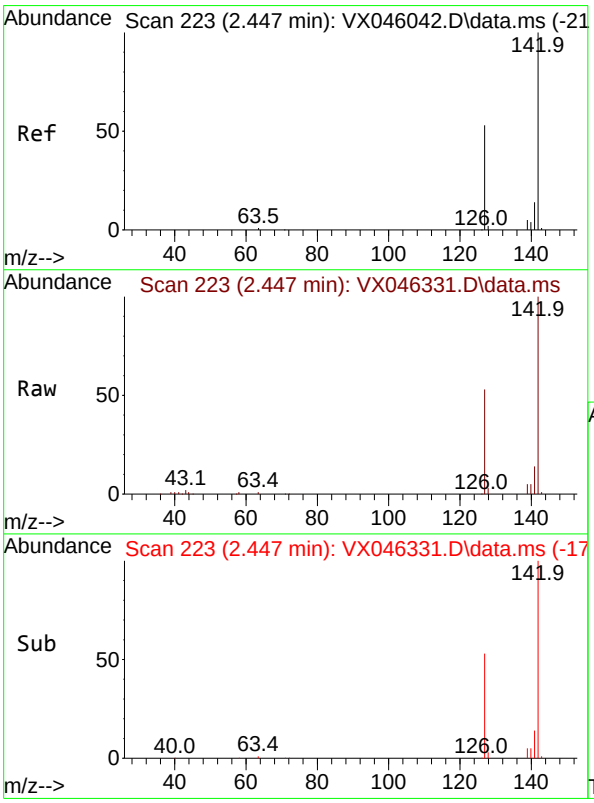
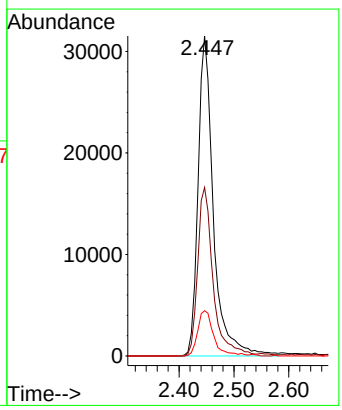
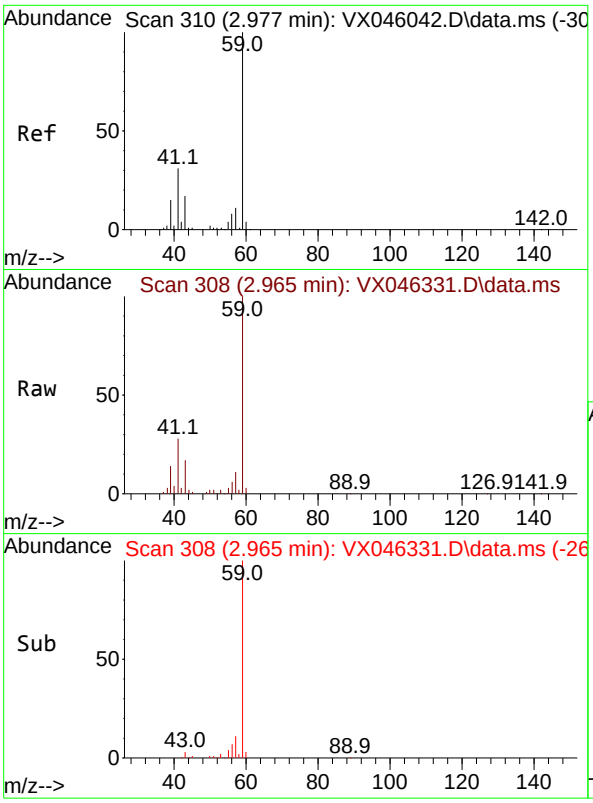


#10
Methyl Iodide
Concen: 45.758 ug/l
RT: 2.447 min Scan# 223
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion:142 Resp: 61527

Ion	Ratio	Lower	Upper
142	100		
127	52.7	41.7	62.5
141	14.7	11.5	17.3

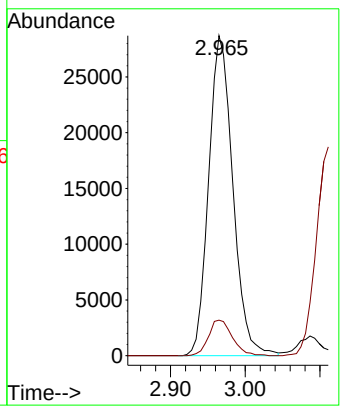




#11
Tert butyl alcohol
Concen: 274.166 ug/l
RT: 2.965 min Scan# 3
Delta R.T. -0.012 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 59 Resp: 6453

Ion	Ratio	Lower	Upper
59	100		
57	11.0	8.6	12.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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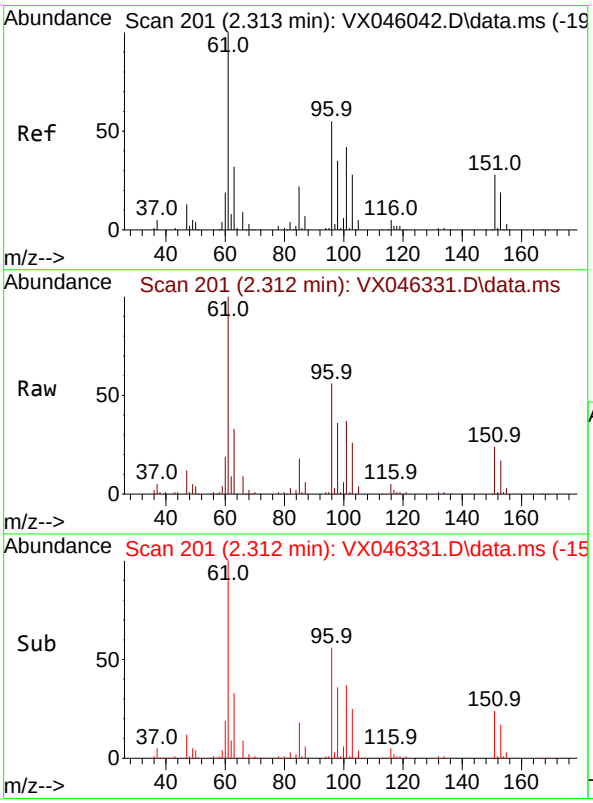
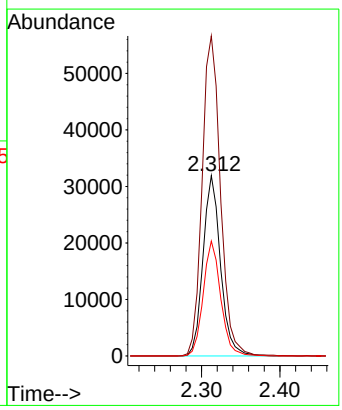
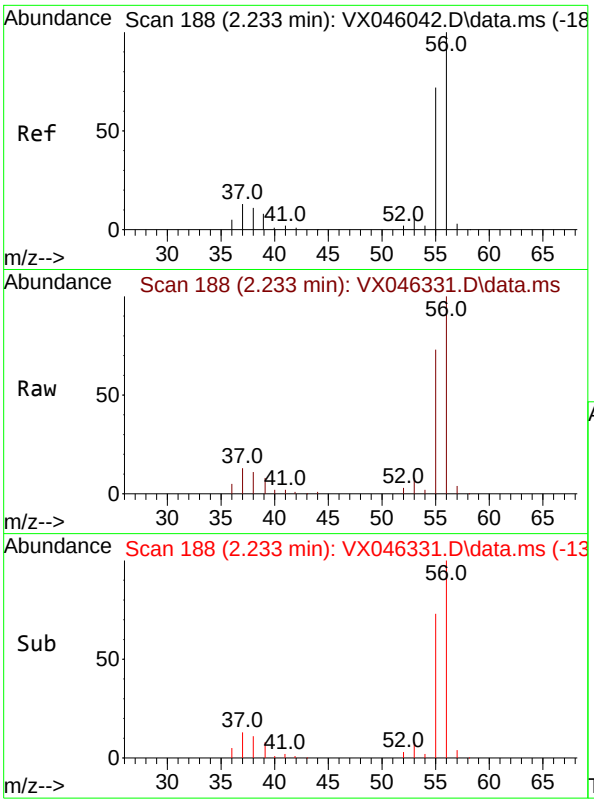


#12
1,1-Dichloroethene
Concen: 46.384 ug/l
RT: 2.312 min Scan# 201
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 96 Resp: 49469

Ion	Ratio	Lower	Upper
96	100		
61	177.5	146.2	219.2
98	63.7	51.0	76.6

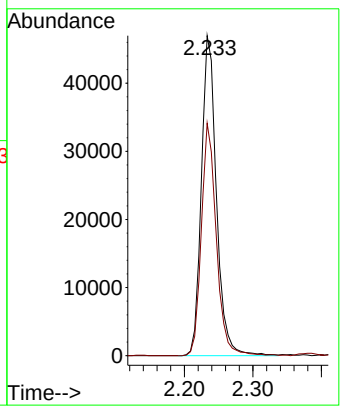




#13
Acrolein
Concen: 268.519 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 56 Resp: 7197

Ion	Ratio	Lower	Upper
56	100		
55	72.3	56.2	84.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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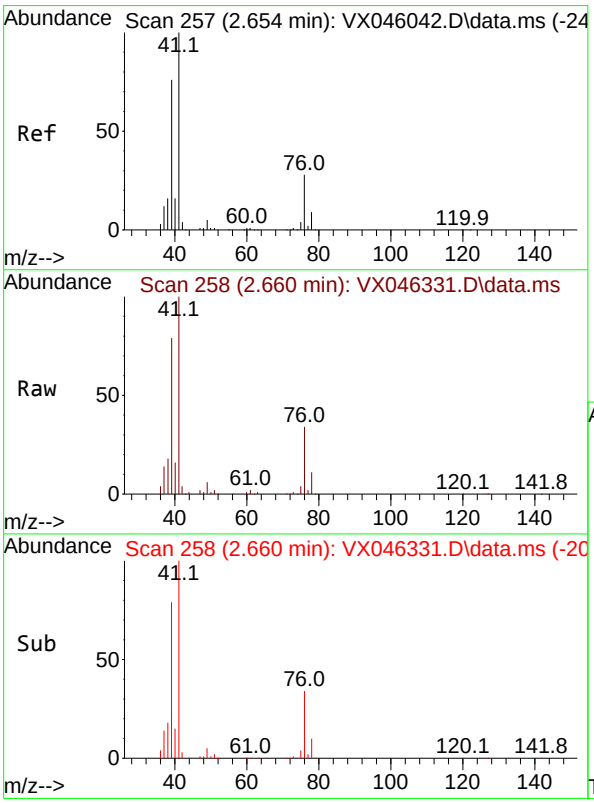
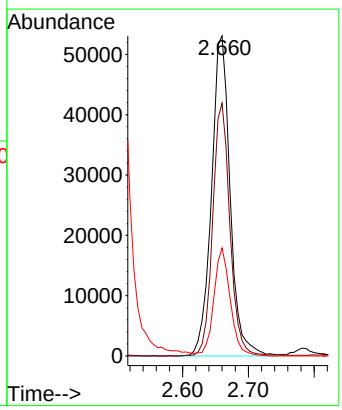
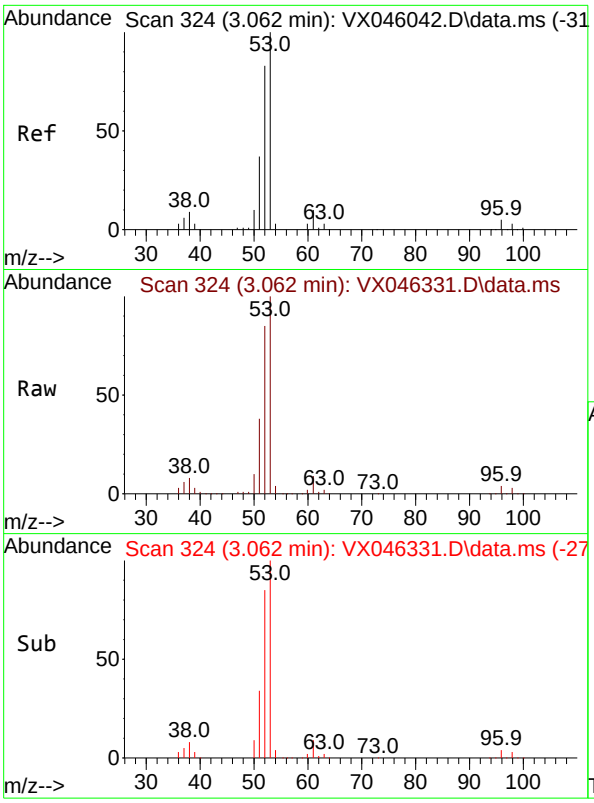


#14
Allyl chloride
Concen: 51.568 ug/l
RT: 2.660 min Scan# 258
Delta R.T. 0.006 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 41 Resp: 105111

Ion	Ratio	Lower	Upper
41	100		
39	72.7	60.6	90.8
76	29.7	24.9	37.3

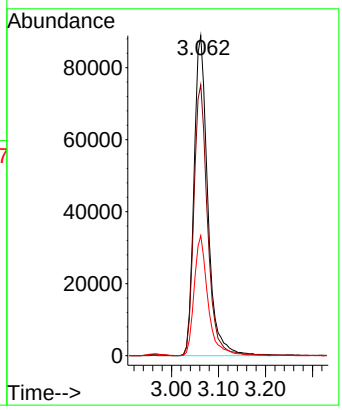




#15
Acrylonitrile
Concen: 270.194 ug/l
RT: 3.062 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 53 Resp: 18185

Ion	Ratio	Lower	Upper
53	100		
52	84.1	65.3	97.9
51	37.3	29.8	44.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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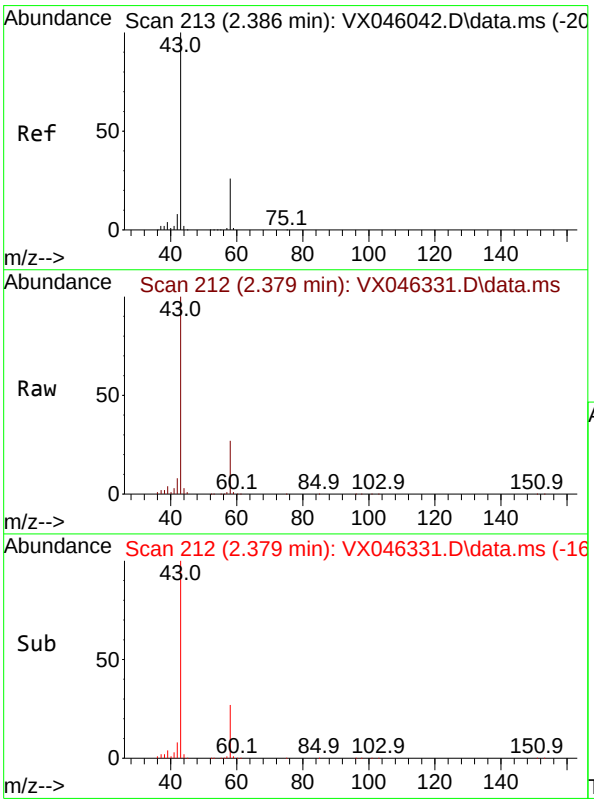
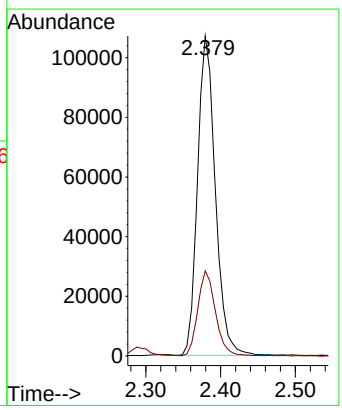
Supervised By :Mahesh Dadoda 05/26/2025

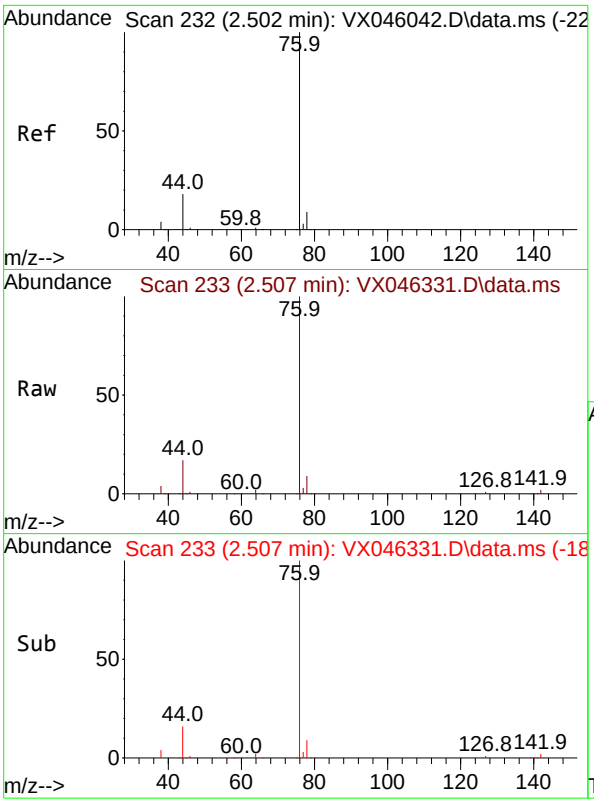


#16
Acetone
Concen: 263.114 ug/l
RT: 2.379 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 43 Resp: 176899

Ion	Ratio	Lower	Upper
43	100		
58	26.6	21.2	31.8

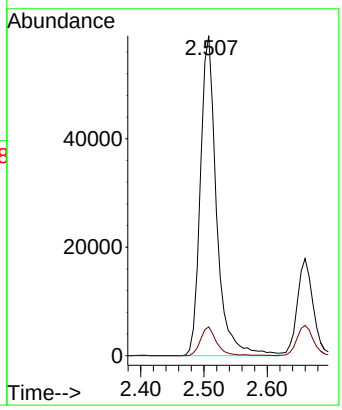




#17
Carbon Disulfide
Concen: 41.606 ug/l
RT: 2.507 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 76 Resp: 10519

Ion	Ratio	Lower	Upper
76	100		
78	9.0	7.0	10.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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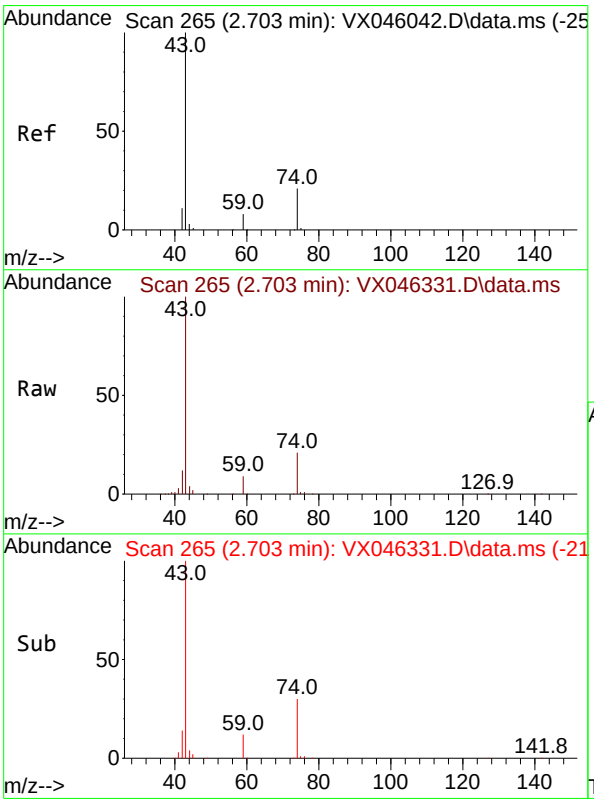
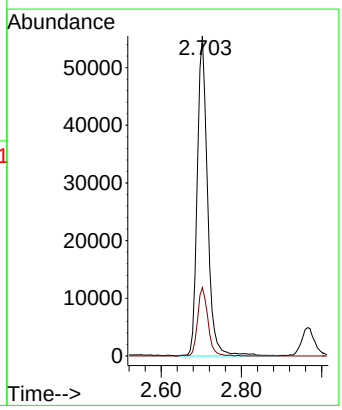
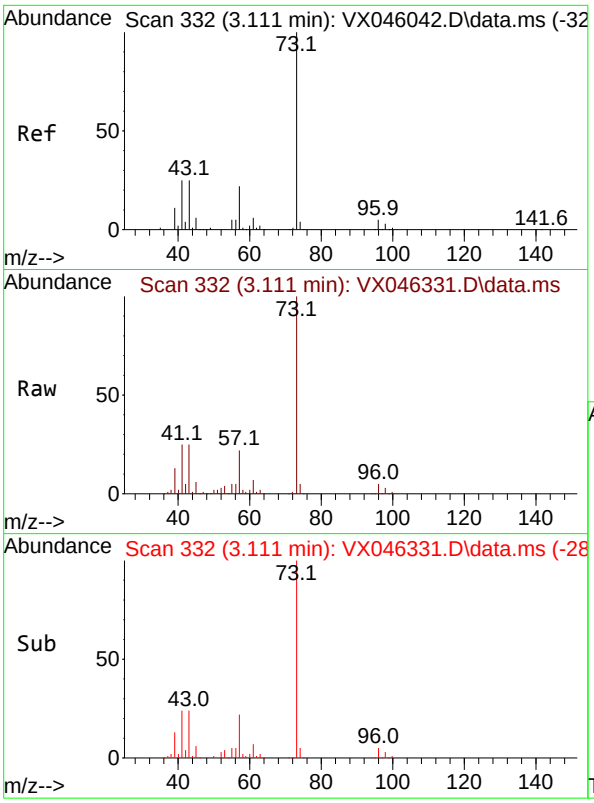


#18
Methyl Acetate
Concen: 63.388 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 43 Resp: 98895

Ion	Ratio	Lower	Upper
43	100		
74	21.4	16.7	25.1

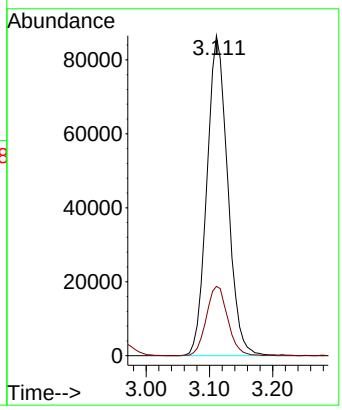




#19
Methyl tert-butyl Ether
Concen: 52.851 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 73 Resp: 19761

Ion	Ratio	Lower	Upper
73	100		
57	21.7	17.7	26.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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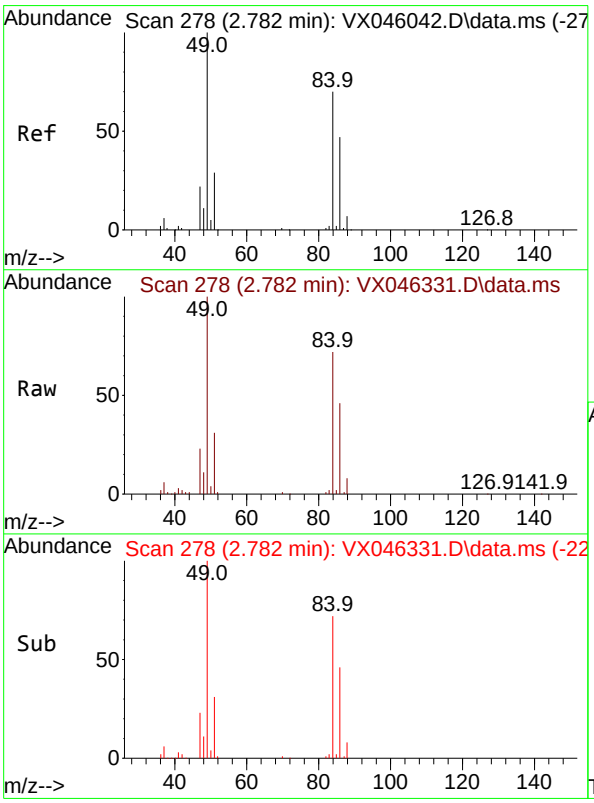
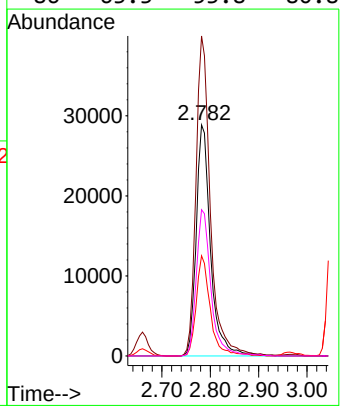
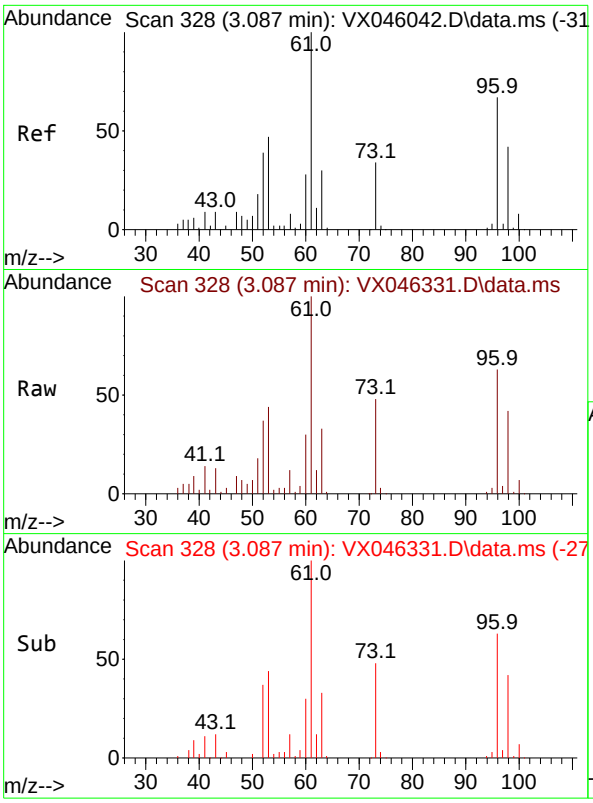


#20
Methylene Chloride
Concen: 46.299 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 84 Resp: 59651

Ion	Ratio	Lower	Upper
84	100		
49	138.5	113.9	170.9
51	43.3	33.5	50.3
86	63.3	53.8	80.8

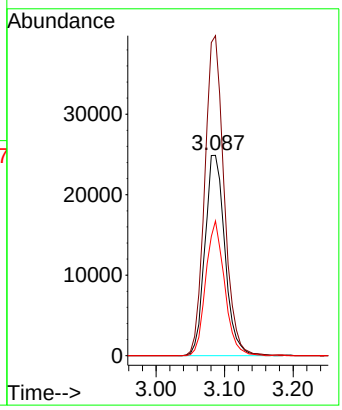




#21
trans-1,2-Dichloroethene
Concen: 47.000 ug/l
RT: 3.087 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 96 Resp: 5040

Ion	Ratio	Lower	Upper
96	100		
61	159.7	119.5	179.3
98	67.3	50.0	75.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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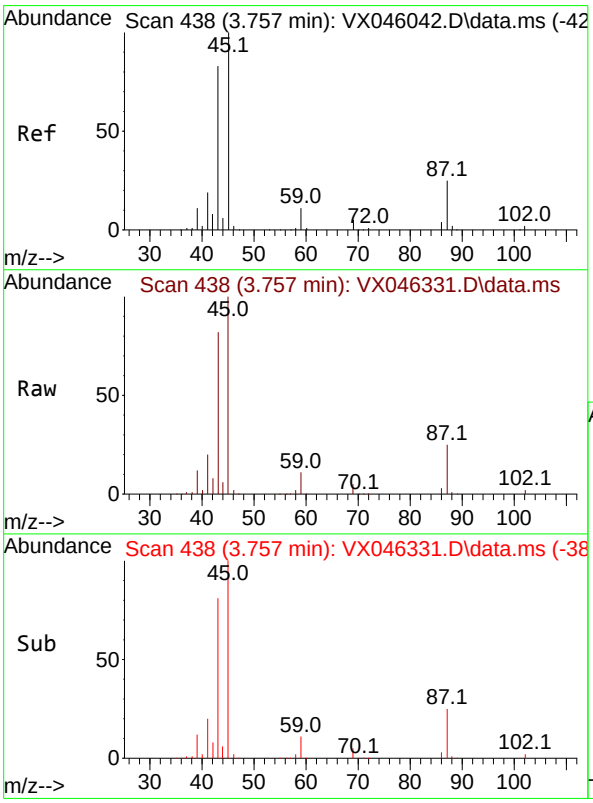
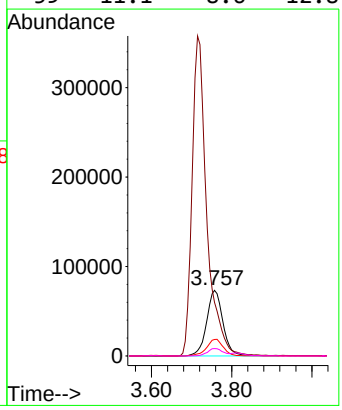
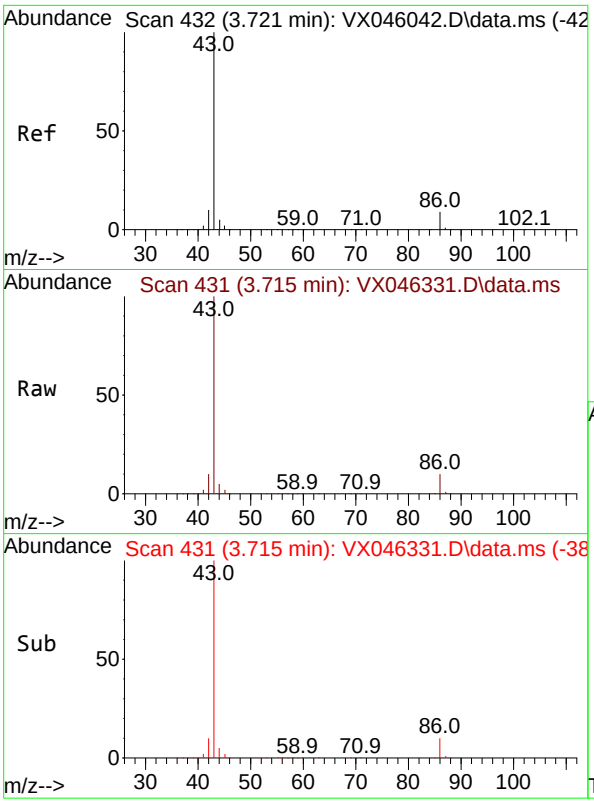


#22
Diisopropyl ether
Concen: 52.704 ug/l
RT: 3.757 min Scan# 438
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 45 Resp: 207508

Ion	Ratio	Lower	Upper
45	100		
43	81.5	66.6	100.0
87	25.1	19.8	29.6
59	11.1	8.6	12.8

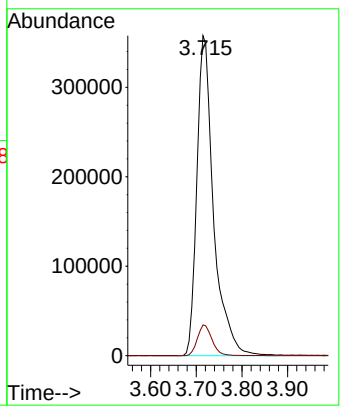




#23
Vinyl Acetate
Concen: 263.054 ug/l
RT: 3.715 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 43 Resp: 91093

Ion	Ratio	Lower	Upper
43	100		
86	9.6	7.5	11.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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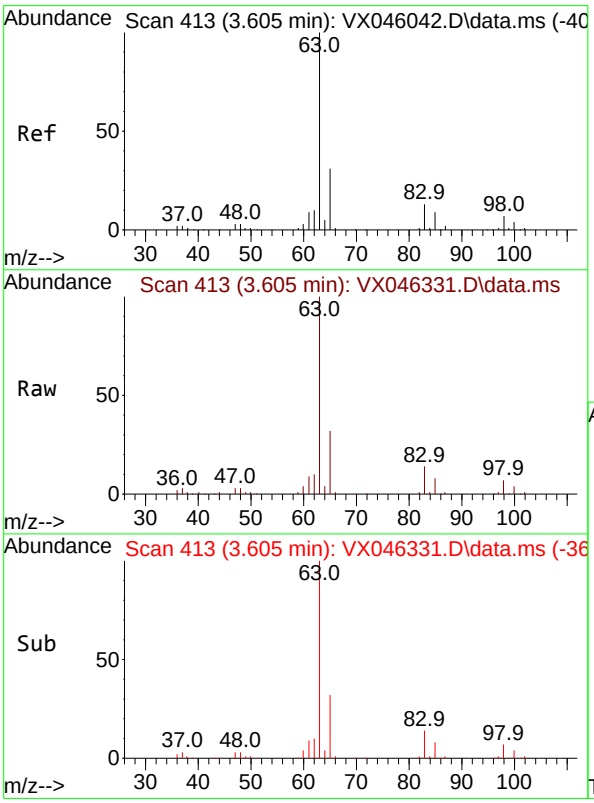
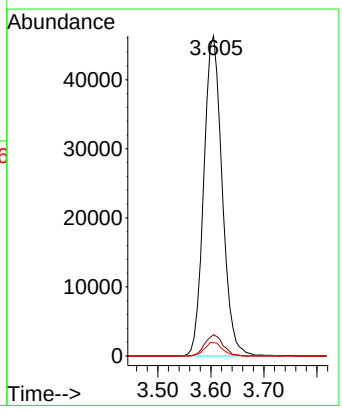
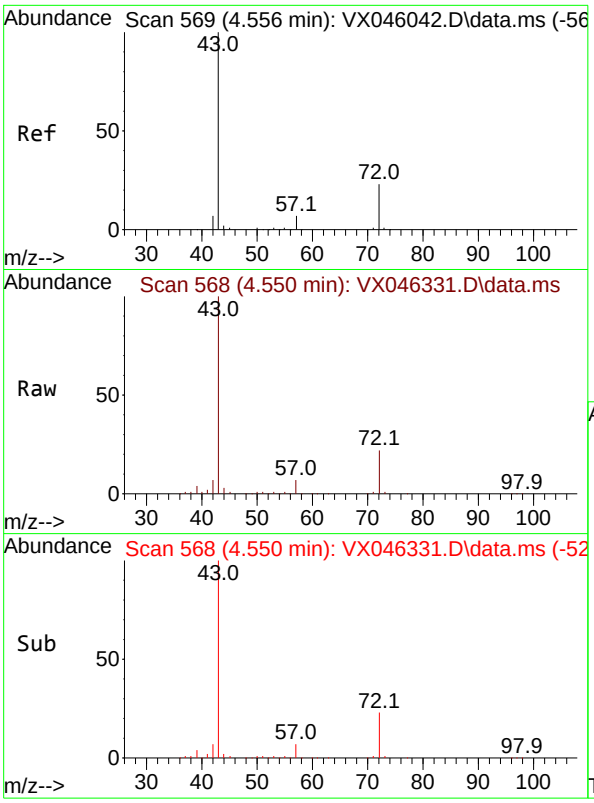


#24
1,1-Dichloroethane
Concen: 50.826 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 63 Resp: 111459

Ion	Ratio	Lower	Upper
63	100		
98	6.6	3.6	10.8
100	4.1	2.1	6.3

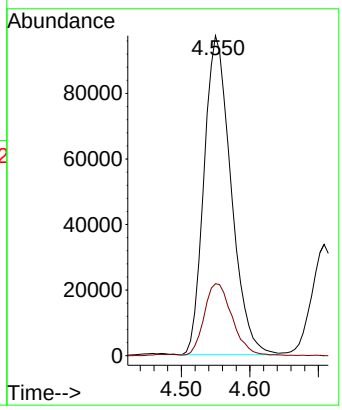




#25
2-Butanone
Concen: 272.843 ug/l
RT: 4.550 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 43 Resp: 26631

Ion	Ratio	Lower	Upper
43	100		
72	22.3	18.4	27.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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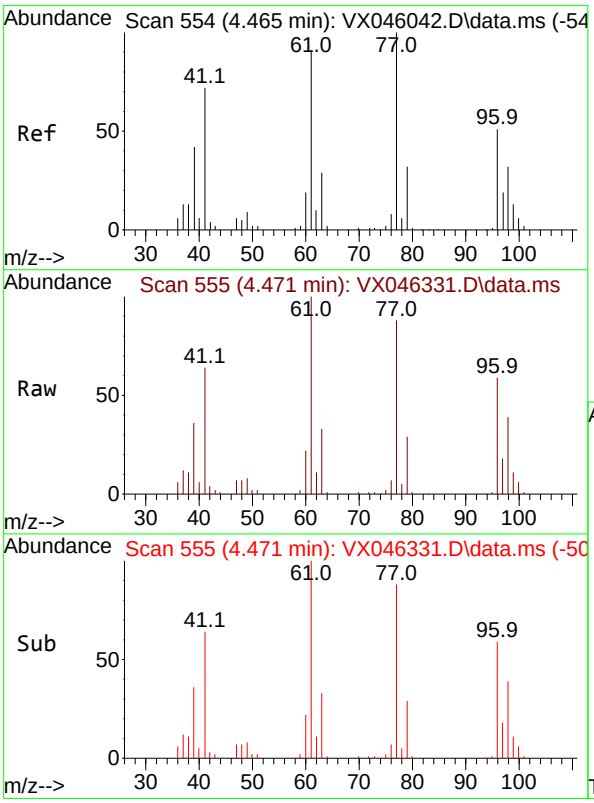
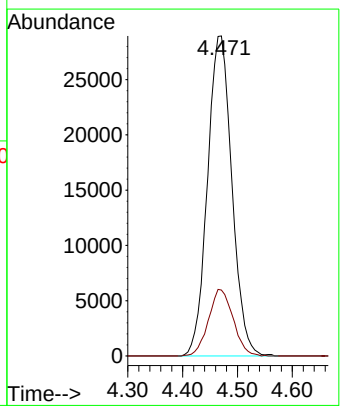
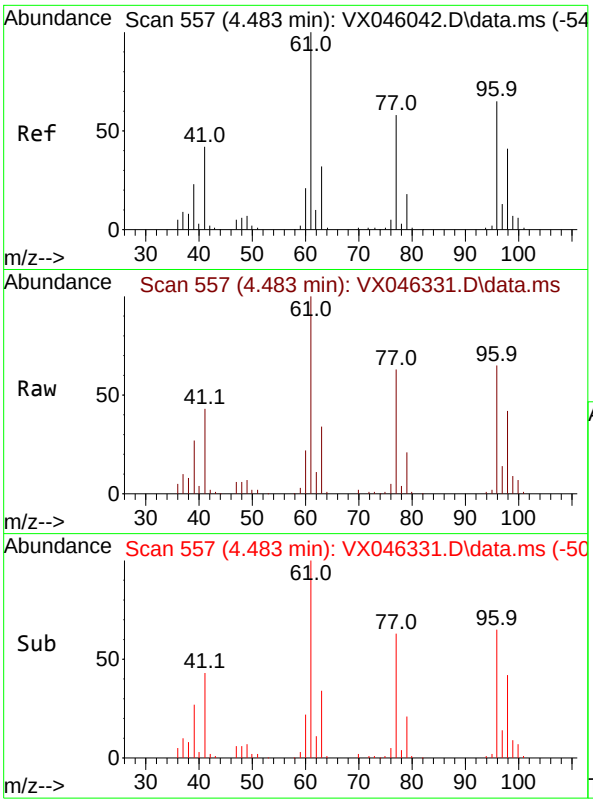


#26
2,2-Dichloropropane
Concen: 52.155 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 77 Resp: 89521

Ion	Ratio	Lower	Upper
77	100		
97	21.0	10.5	31.5





#27
cis-1,2-Dichloroethene
Concen: 49.159 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 96 Resp: 6347

Ion	Ratio	Lower	Upper
96	100		
61	162.9	0.0	322.8
98	65.1	0.0	129.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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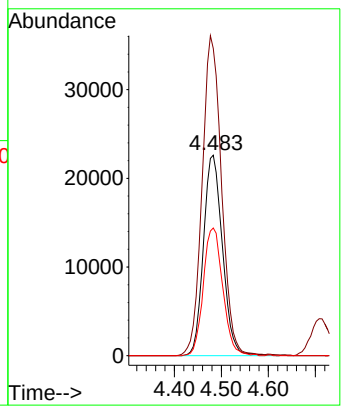
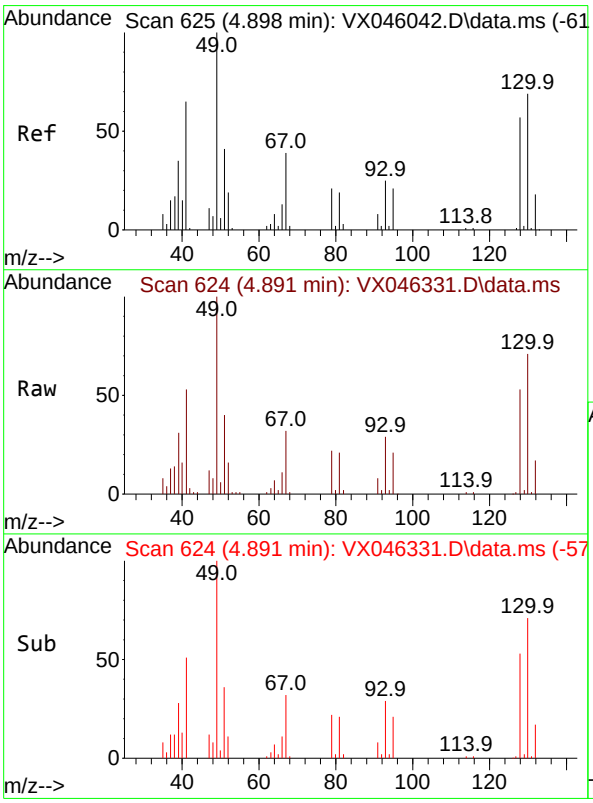
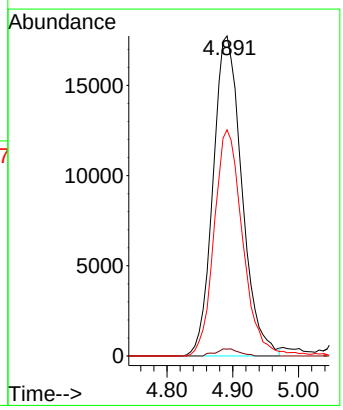


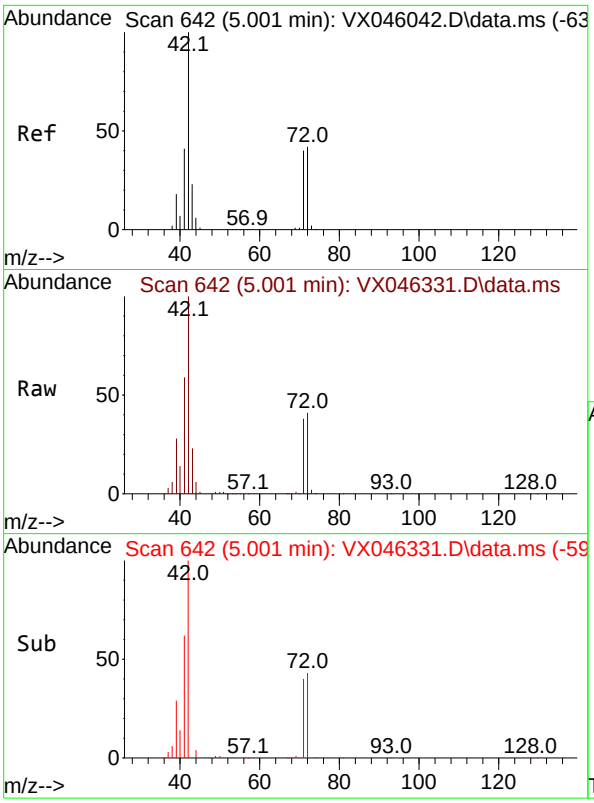


#28
Bromochloromethane
Concen: 51.292 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 49 Resp: 54142

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	4.0
130	70.2	56.2	84.2

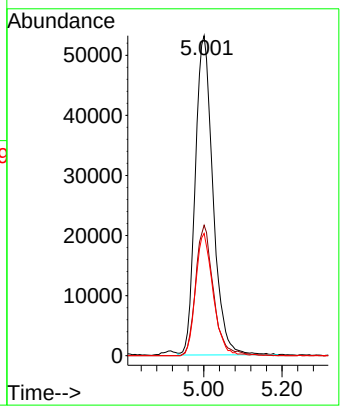




#29
Tetrahydrofuran
Concen: 272.575 ug/l
RT: 5.001 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 42 Resp: 16671

Ion	Ratio	Lower	Upper
42	100		
72	41.2	33.7	50.5
71	37.9	31.4	47.2



Instrument :
MSVOA_X
ClientSampleId :
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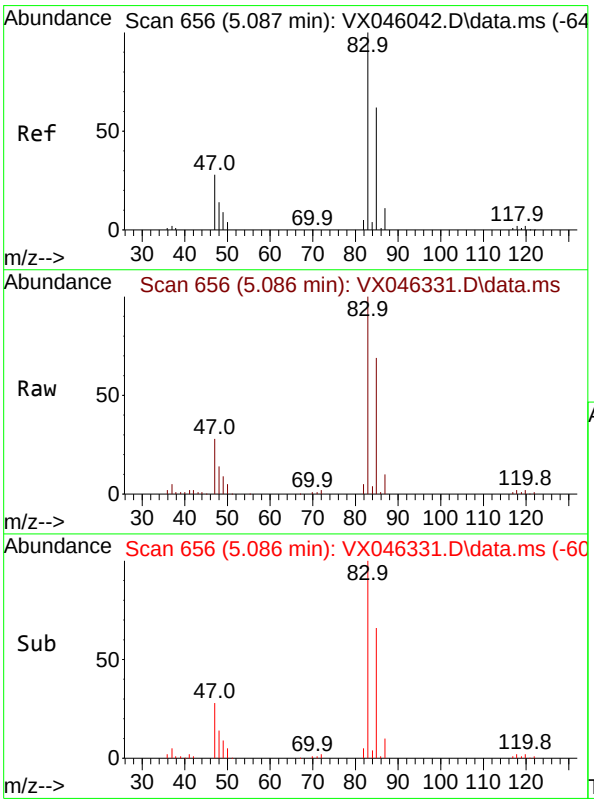
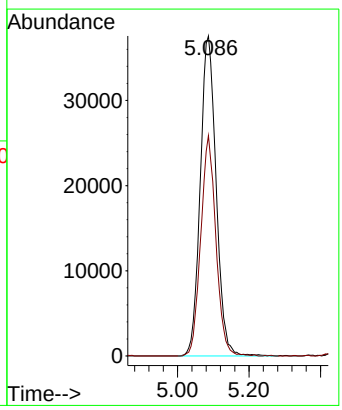
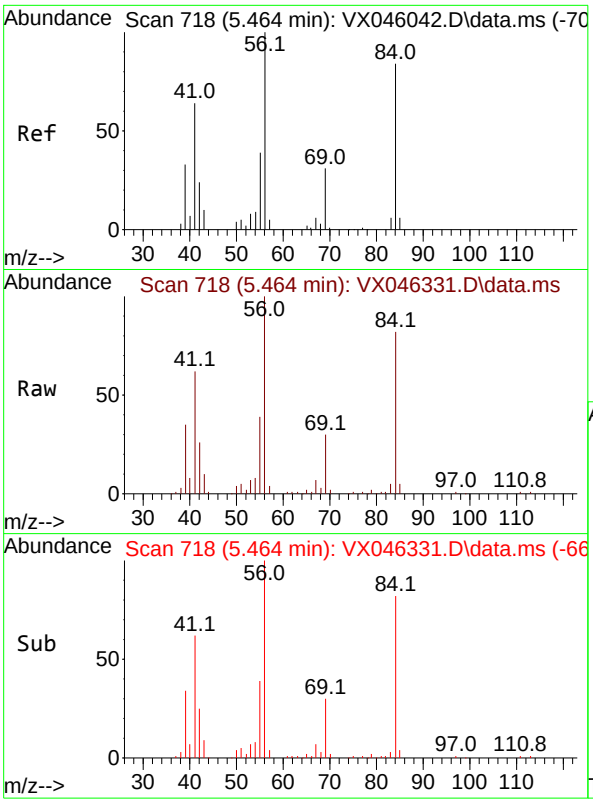


#30
Chloroform
Concen: 50.618 ug/l
RT: 5.086 min Scan# 656
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 83 Resp: 115698

Ion	Ratio	Lower	Upper
83	100		
85	68.9	49.3	73.9

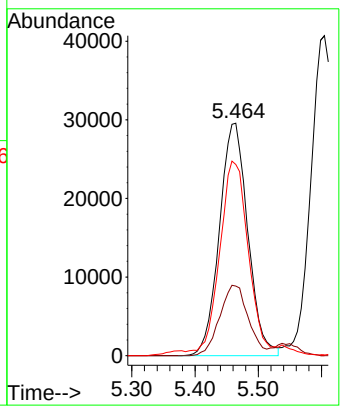




#31
Cyclohexane
Concen: 46.166 ug/l
RT: 5.464 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 56 Resp: 9225

Ion	Ratio	Lower	Upper
56	100		
69	30.0	24.4	36.6
84	80.1	66.9	100.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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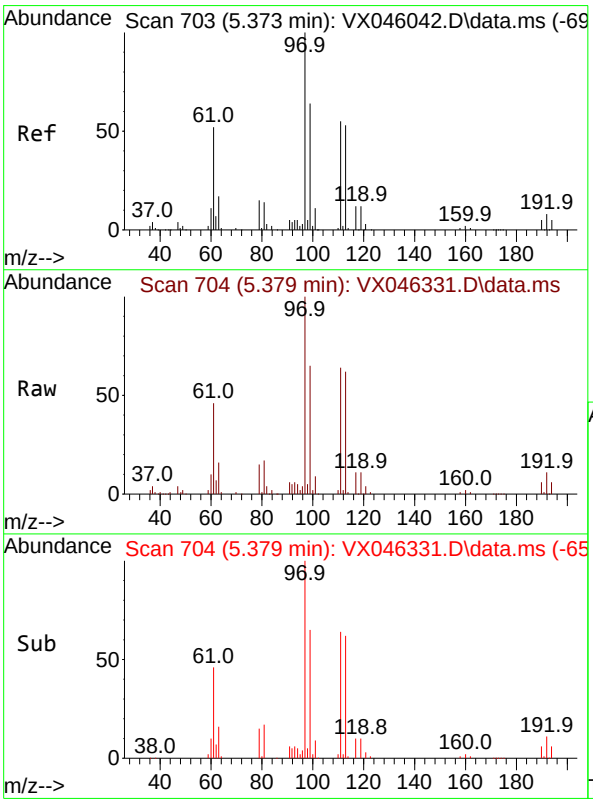
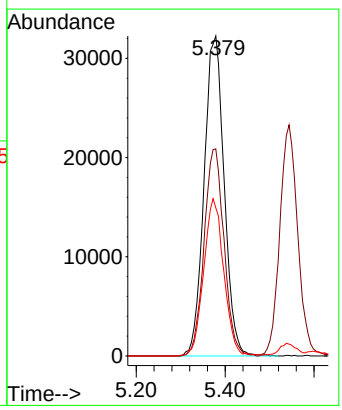
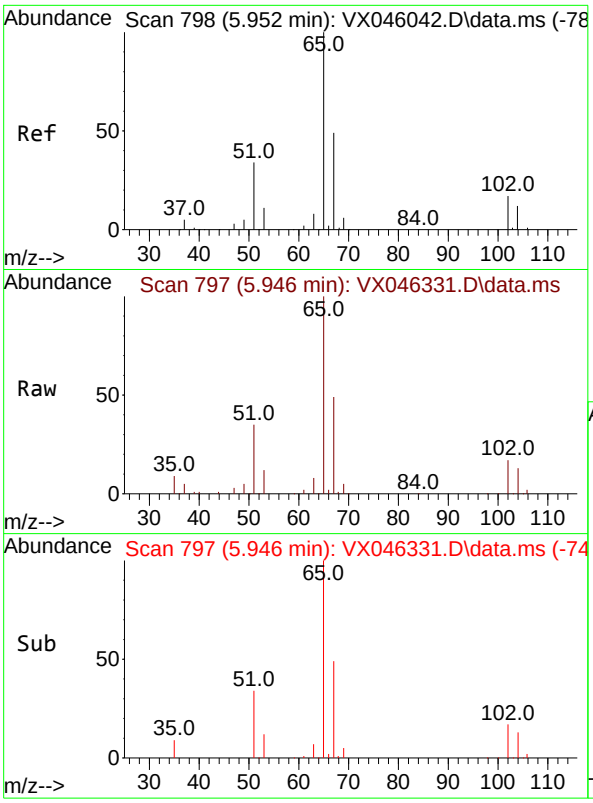


#32
1,1,1-Trichloroethane
Concen: 51.206 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.006 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 97 Resp: 101459

Ion	Ratio	Lower	Upper
97	100		
99	64.1	51.8	77.6
61	49.1	40.1	60.1

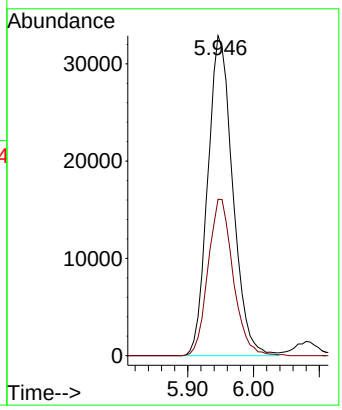




#33
1,2-Dichloroethane-d4
Concen: 51.802 ug/l
RT: 5.946 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 65 Resp: 8686

Ion	Ratio	Lower	Upper
65	100		
67	49.1	0.0	99.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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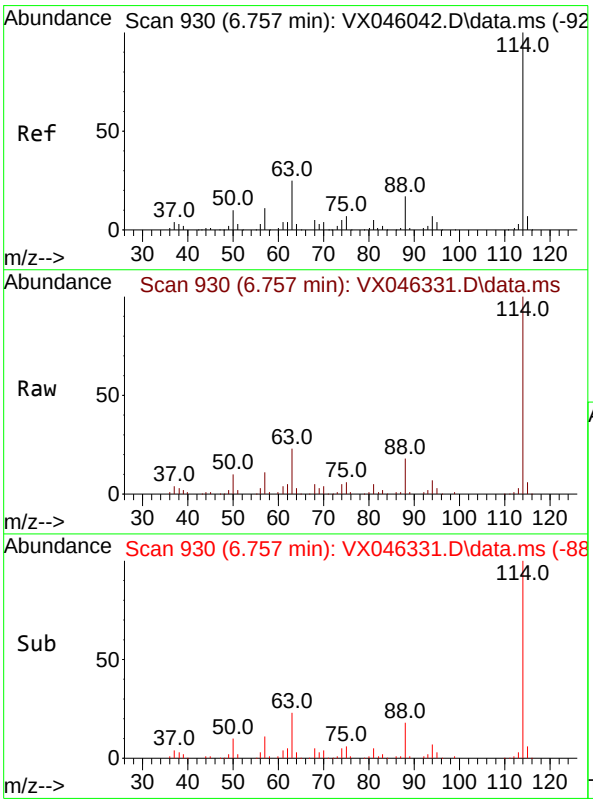
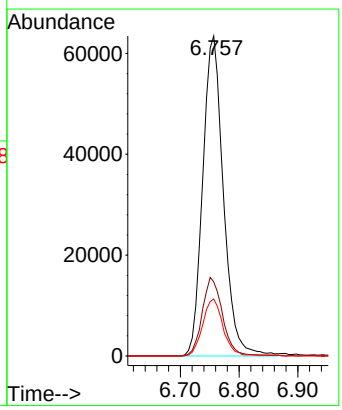
Supervised By :Mahesh Dadoda 05/26/2025

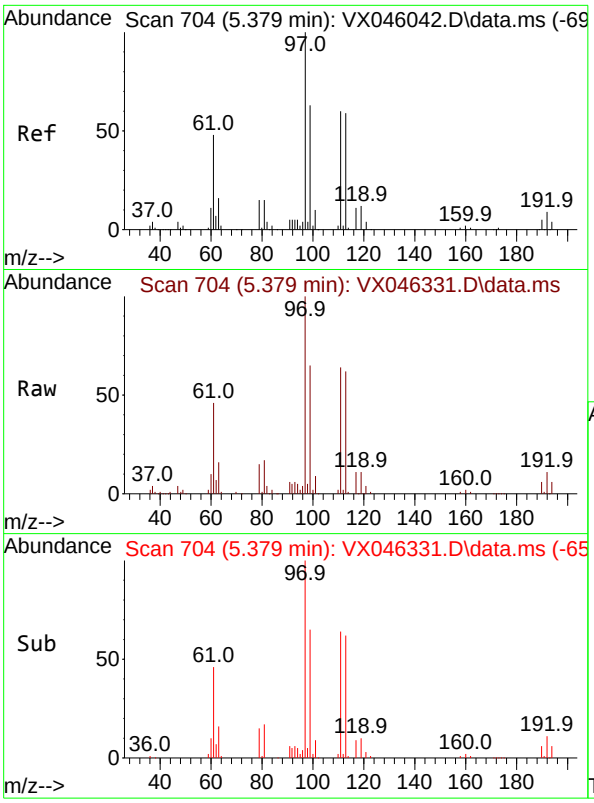


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion:114 Resp: 154938

Ion	Ratio	Lower	Upper
114	100		
63	23.1	0.0	49.2
88	17.8	0.0	33.6

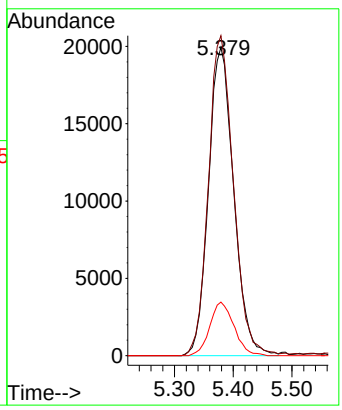




#35
Dibromofluoromethane
Concen: 53.265 ug/l
RT: 5.379 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion:113 Resp: 5942

Ion	Ratio	Lower	Upper
113	100		
111	103.2	83.1	124.7
192	16.7	13.3	19.9



Instrument :
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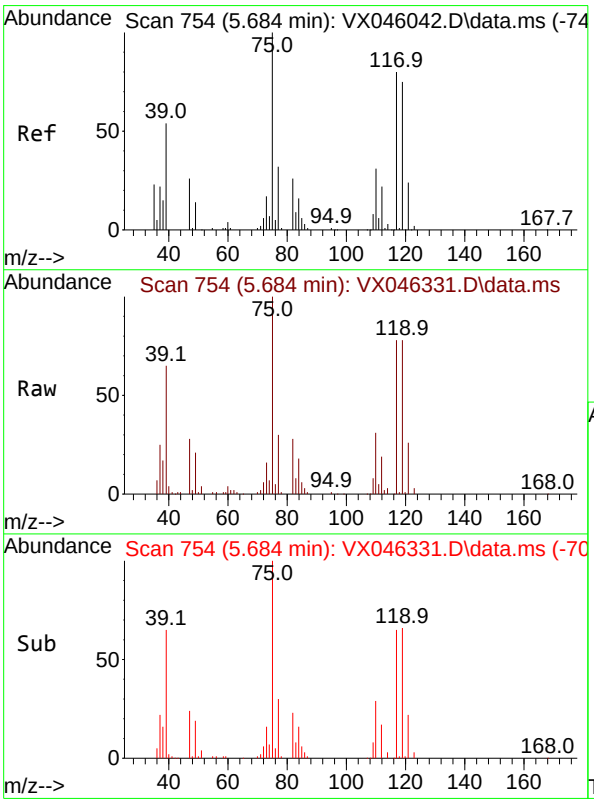
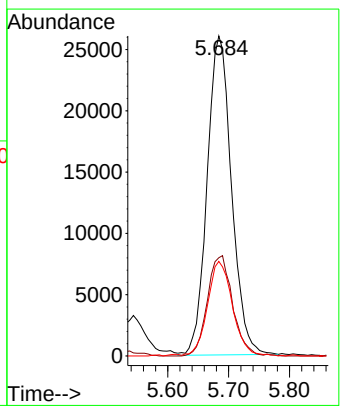
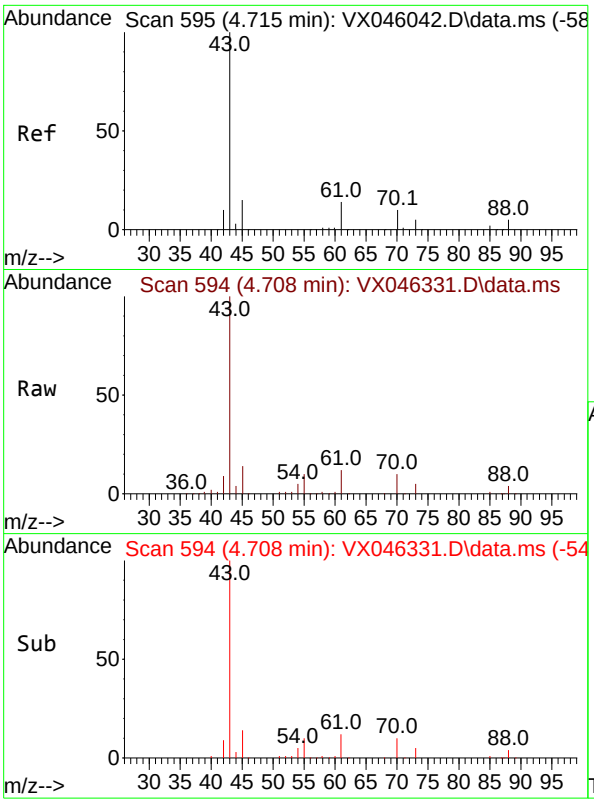


#36
1,1-Dichloropropene
Concen: 48.349 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 75 Resp: 72479

Ion	Ratio	Lower	Upper
75	100		
110	32.3	16.3	48.9
77	30.3	24.3	36.5

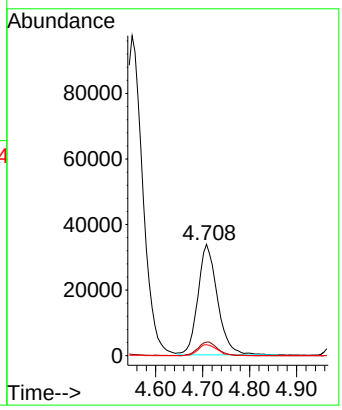




#37
Ethyl Acetate
Concen: 52.723 ug/l
RT: 4.708 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 43 Resp: 9764

Ion	Ratio	Lower	Upper
43	100		
61	12.5	10.3	15.5
70	9.9	7.9	11.9



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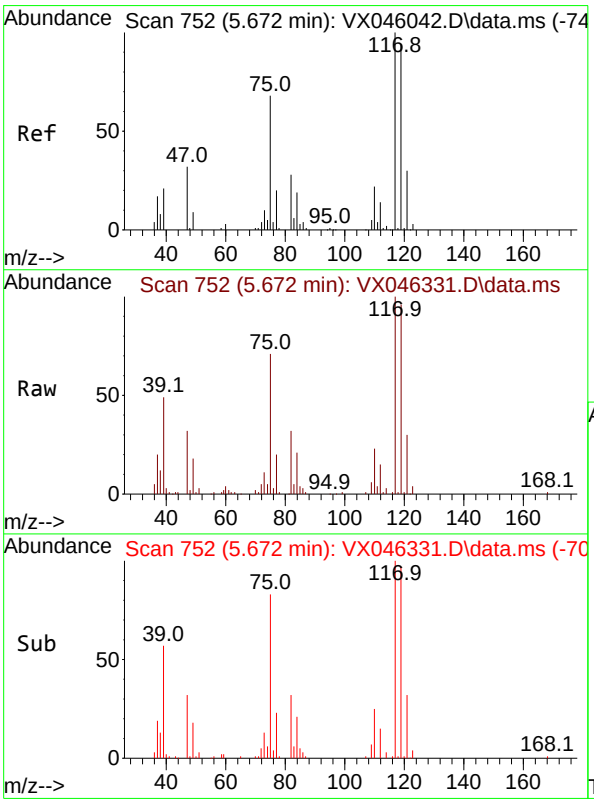
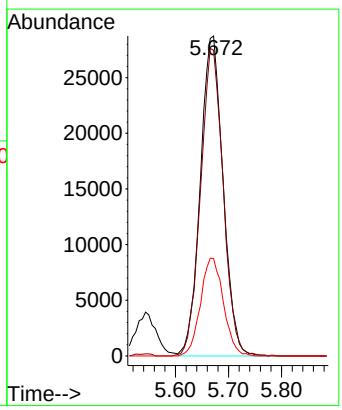
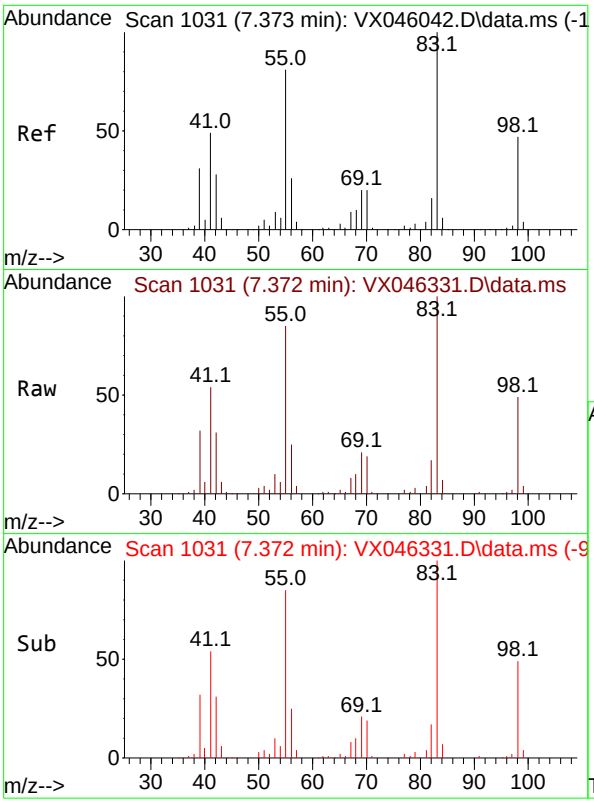


#38
Carbon Tetrachloride
Concen: 50.709 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion:117 Resp: 85412

Ion	Ratio	Lower	Upper
117	100		
119	95.5	75.2	112.8
121	30.4	24.2	36.4

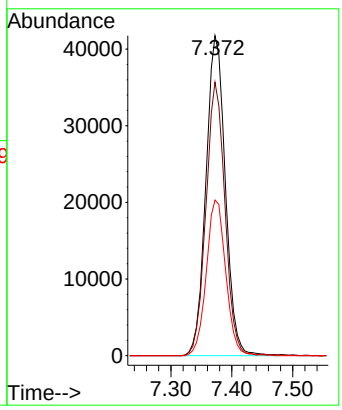




#39
Methylcyclohexane
Concen: 47.954 ug/l
RT: 7.372 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 83 Resp: 9254

Ion	Ratio	Lower	Upper
83	100		
55	85.5	64.7	97.1
98	48.7	37.4	56.2



Instrument :
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ClientSampleId :
VSTDCCC050

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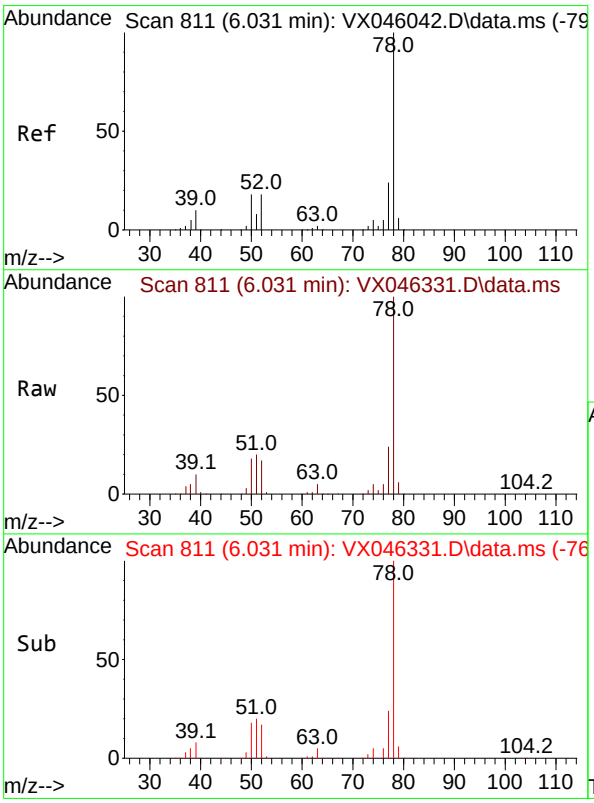
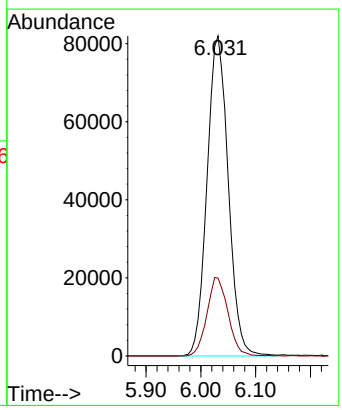
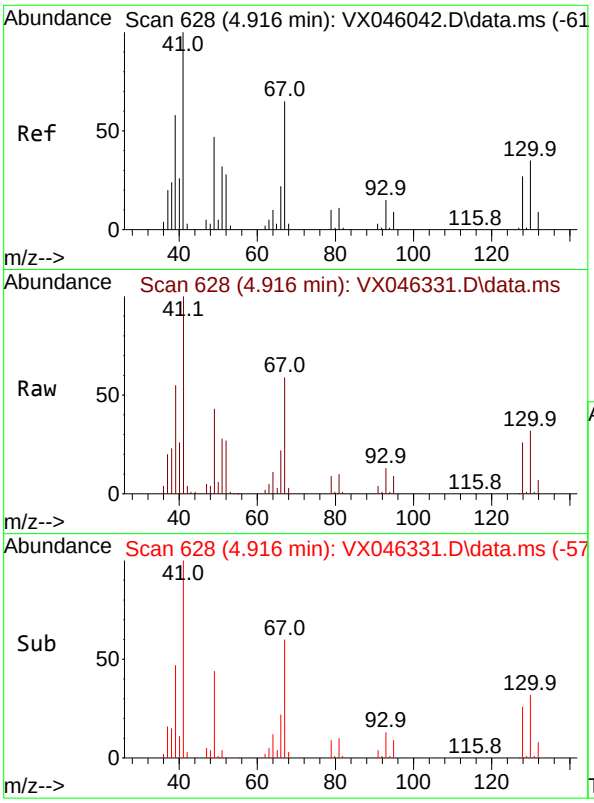


#40
Benzene
Concen: 50.133 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 78 Resp: 220133

Ion	Ratio	Lower	Upper
78	100		
77	24.4	19.0	28.4

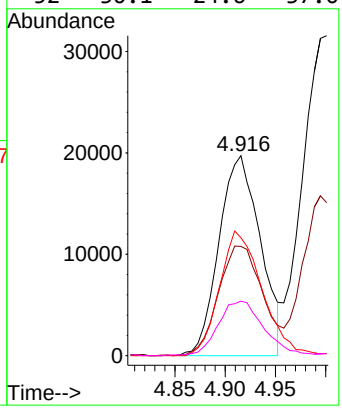




#41
Methacrylonitrile
Concen: 58.302 ug/l m
RT: 4.916 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 41 Resp: 5648

Ion	Ratio	Lower	Upper
41	100		
39	59.4	47.2	70.8
67	64.1	50.7	76.1
52	30.1	24.6	37.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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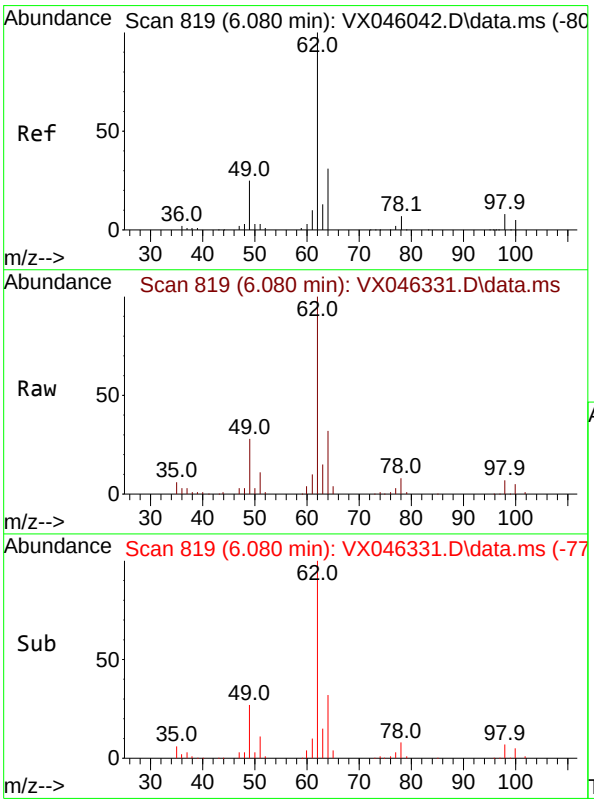
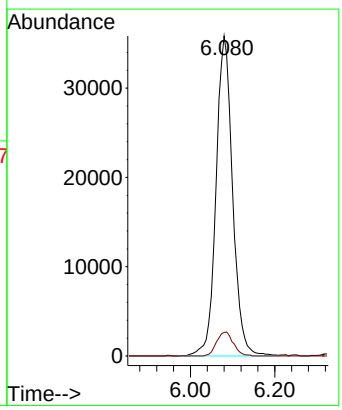
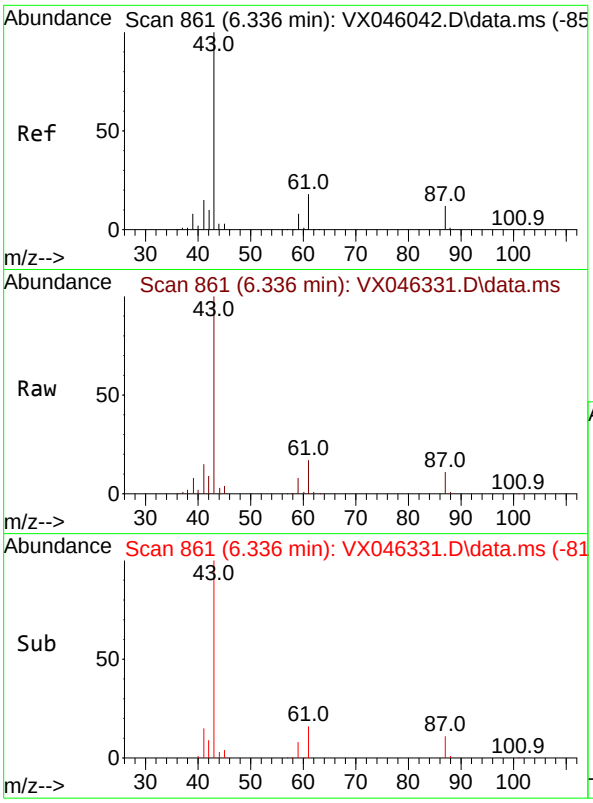


#42
1,2-Dichloroethane
Concen: 51.375 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 62 Resp: 97361

Ion	Ratio	Lower	Upper
62	100		
98	7.6	0.0	15.2

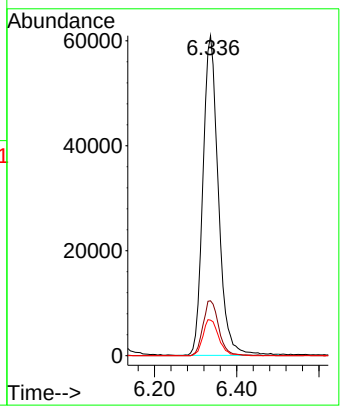




#43
Isopropyl Acetate
Concen: 55.999 ug/l
RT: 6.336 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 43 Resp: 15822

Ion	Ratio	Lower	Upper
43	100		
61	17.6	14.3	21.5
87	11.6	9.5	14.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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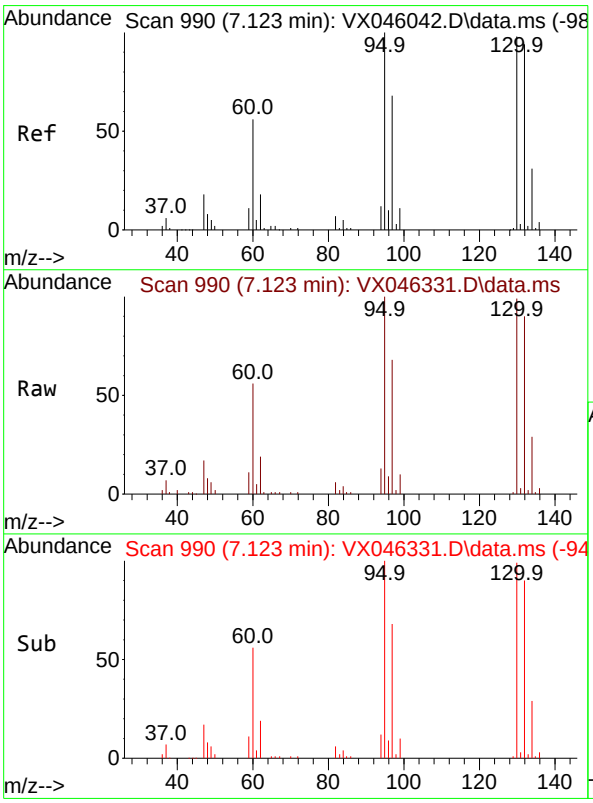
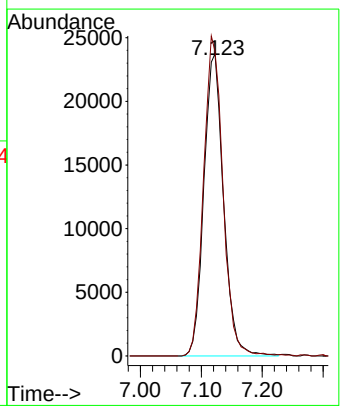
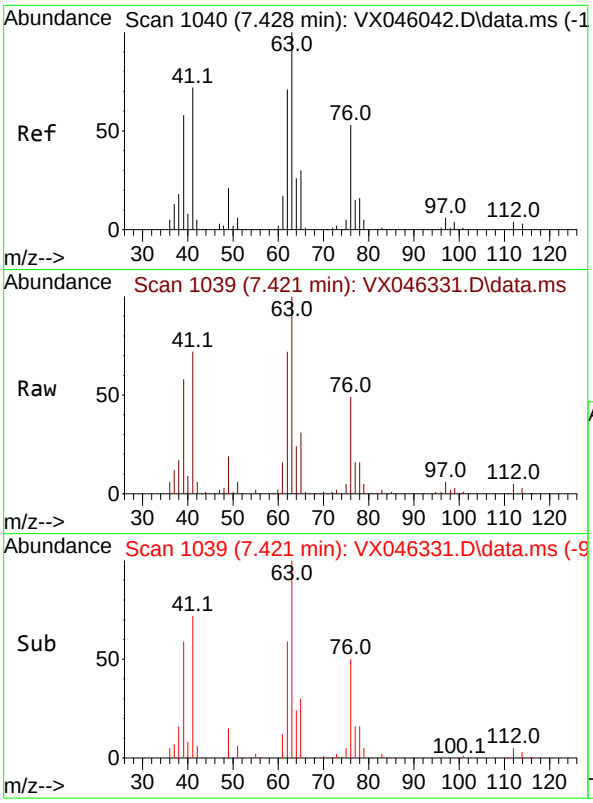


#44
Trichloroethene
Concen: 50.279 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion:130 Resp: 53136

Ion	Ratio	Lower	Upper
130	100		
95	100.8	0.0	204.2

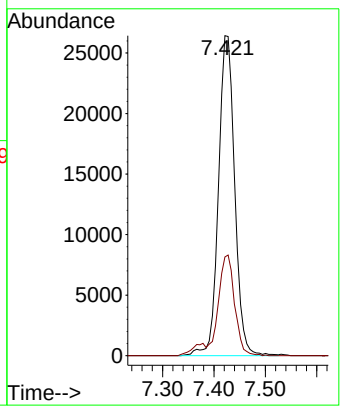




#45
1,2-Dichloropropane
Concen: 53.136 ug/l
RT: 7.421 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 63 Resp: 5801

Ion	Ratio	Lower	Upper
63	100		
65	30.8	24.1	36.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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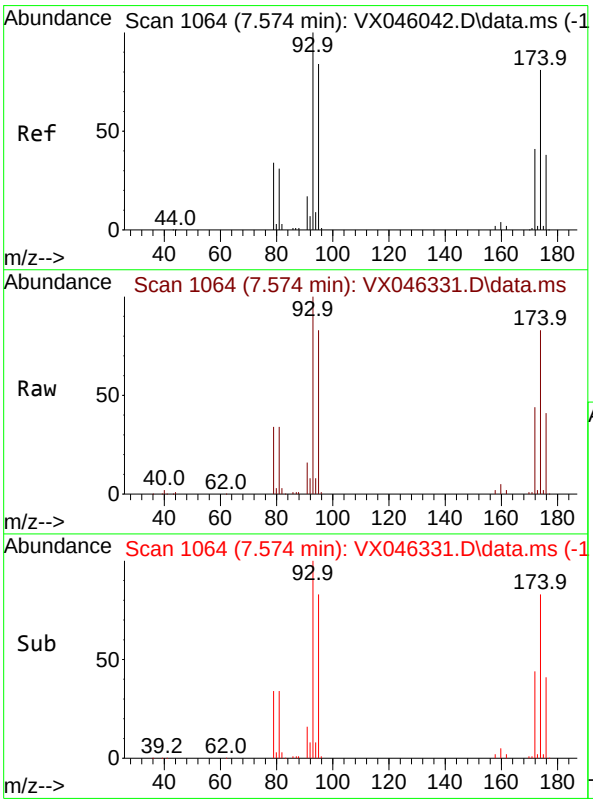
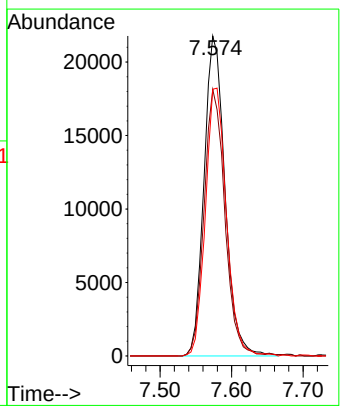
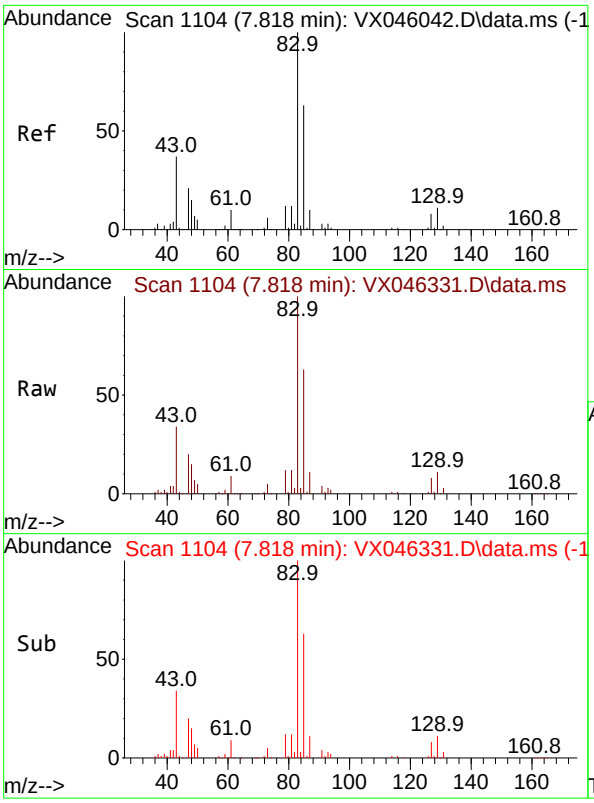


#46
Dibromomethane
Concen: 51.454 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 93 Resp: 44309

Ion	Ratio	Lower	Upper
93	100		
95	82.7	65.6	98.4
174	84.2	68.2	102.2

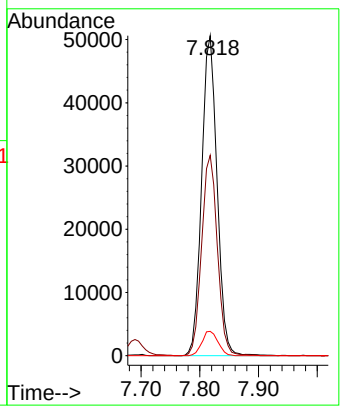




#47
Bromodichloromethane
Concen: 54.392 ug/l
RT: 7.818 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 83 Resp: 9225

Ion	Ratio	Lower	Upper
83	100		
85	62.6	50.5	75.7
127	7.6	6.5	9.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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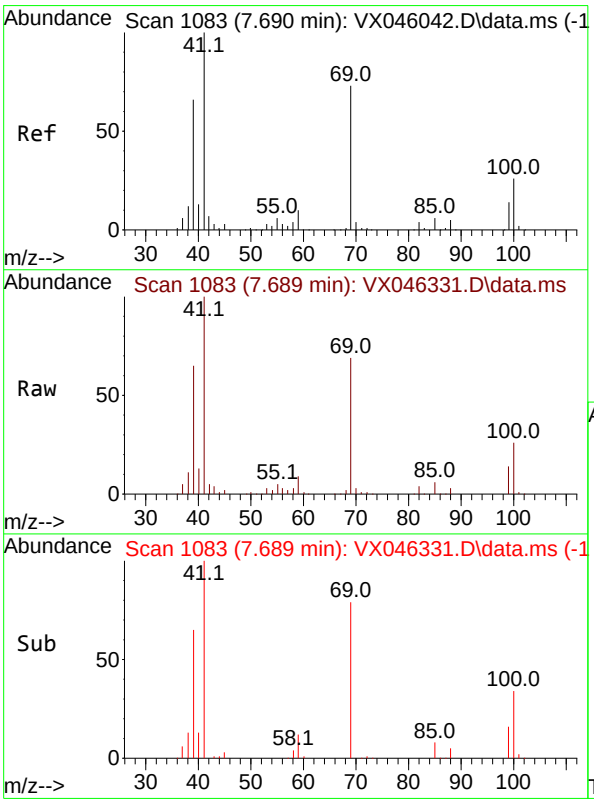
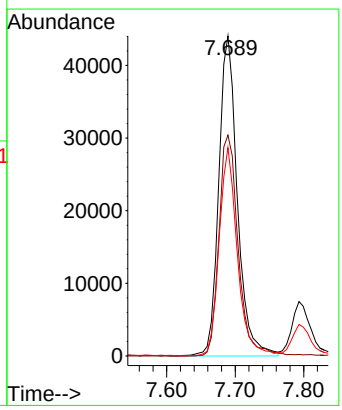
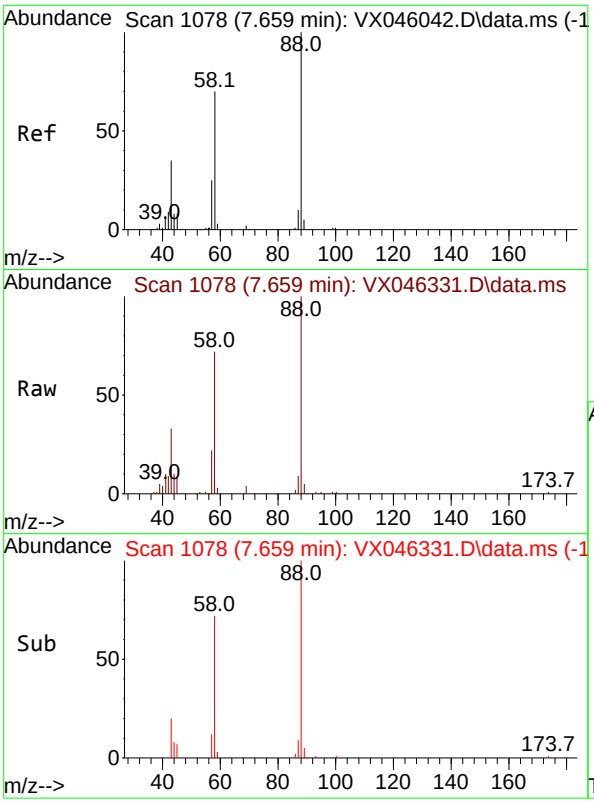


#48
Methyl methacrylate
Concen: 57.467 ug/l
RT: 7.689 min Scan# 1083
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 41 Resp: 82925

Ion	Ratio	Lower	Upper
41	100		
69	72.0	58.5	87.7
39	63.5	51.7	77.5





#49
1,4-Dioxane
Concen: 1053.147 ug/l
RT: 7.659 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 88 Resp: 2885

Ion	Ratio	Lower	Upper
88	100		
43	42.3	33.4	50.2
58	74.9	58.6	88.0

Instrument :
MSVOA_X
ClientSampleId :
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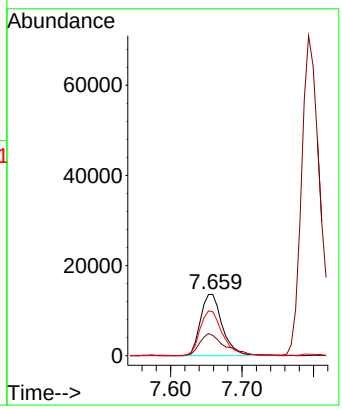
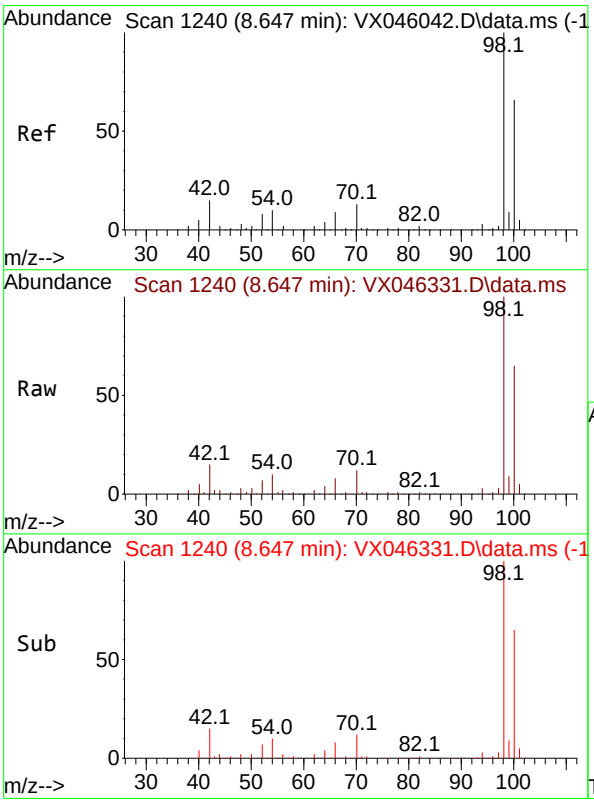
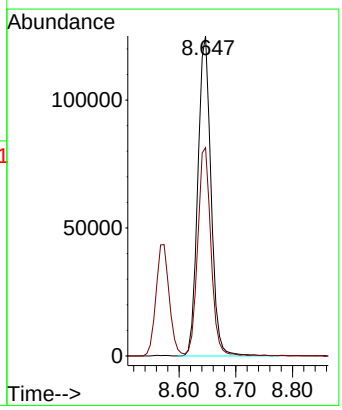


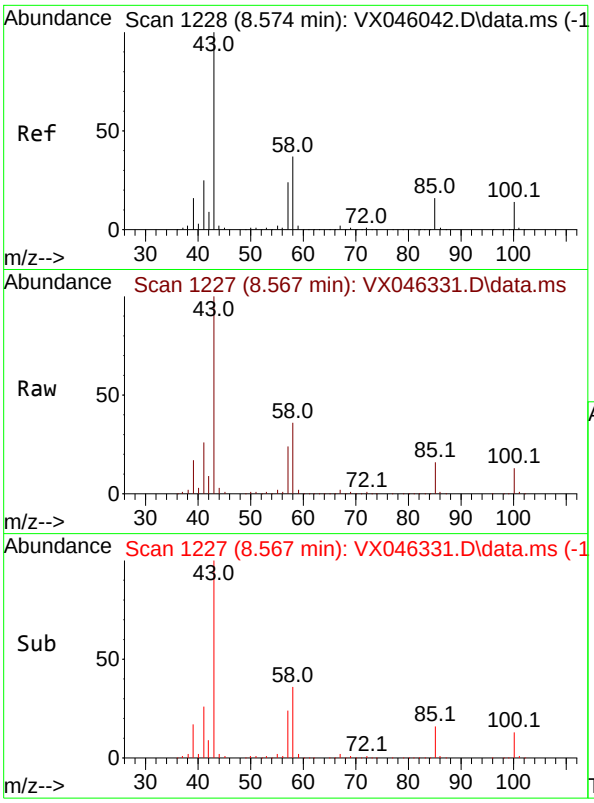


#50
Toluene-d8
Concen: 52.423 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 98 Resp: 202439

Ion	Ratio	Lower	Upper
98	100		
100	64.6	53.5	80.3

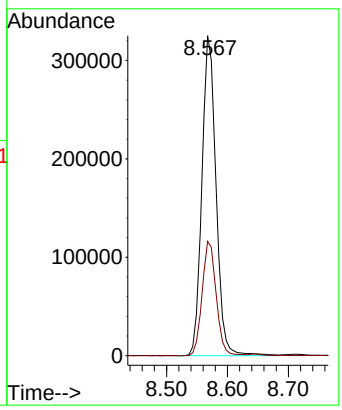




#51
4-Methyl-2-Pentanone
Concen: 279.753 ug/l
RT: 8.567 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 43 Resp: 52468

Ion	Ratio	Lower	Upper
43	100		
58	35.5	28.9	43.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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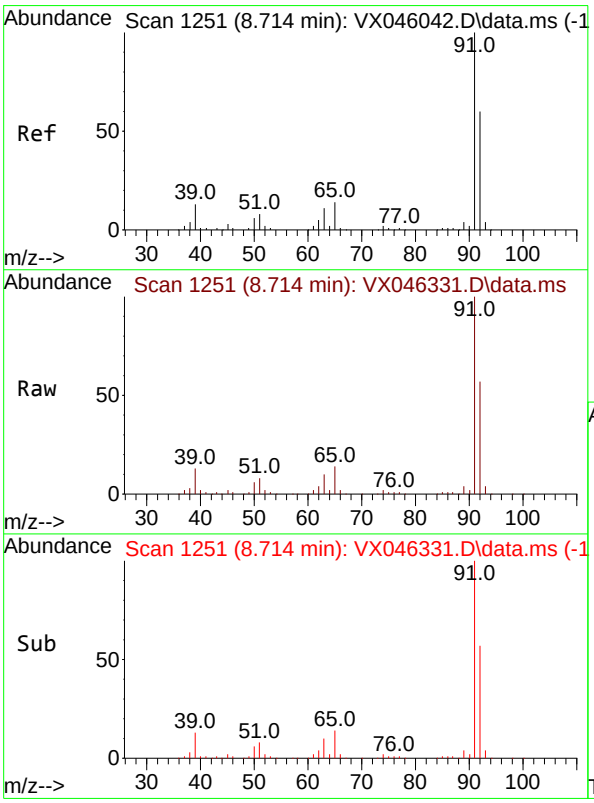
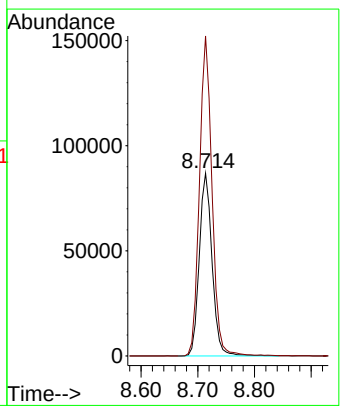
Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025

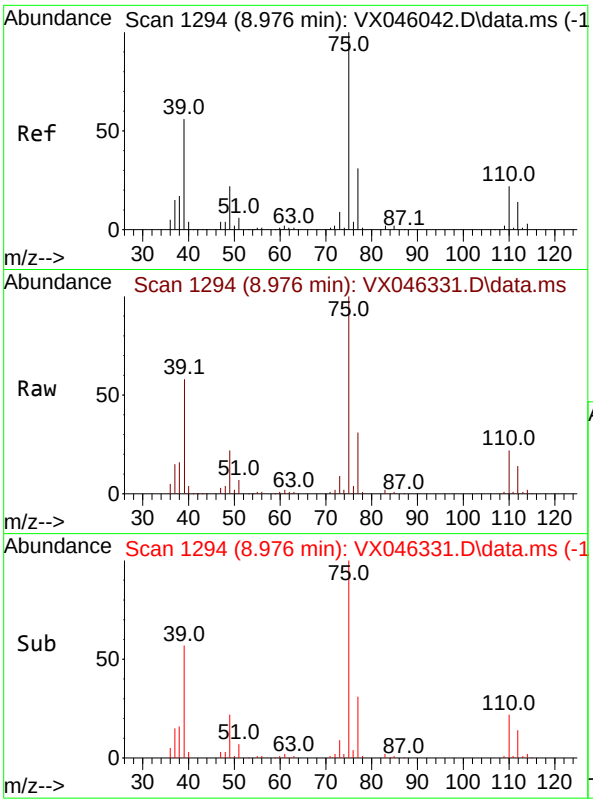


#52
Toluene
Concen: 50.537 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 92 Resp: 136068

Ion	Ratio	Lower	Upper
92	100		
91	172.1	136.6	205.0

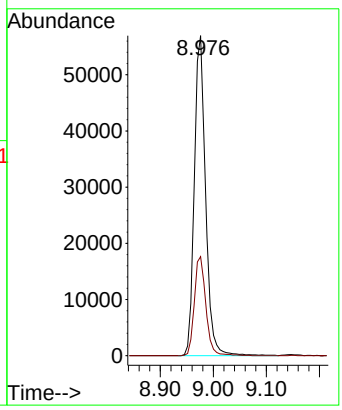




#53
t-1,3-Dichloropropene
Concen: 55.750 ug/l
RT: 8.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 75 Resp: 8404

Ion	Ratio	Lower	Upper
75	100		
77	30.9	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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Reviewed By :Semsettin Yesilyurt 05/26/2025
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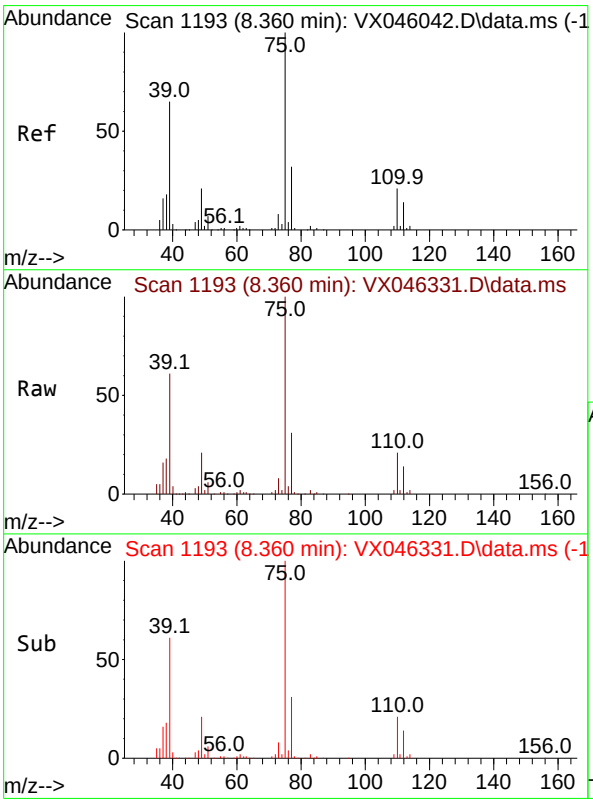
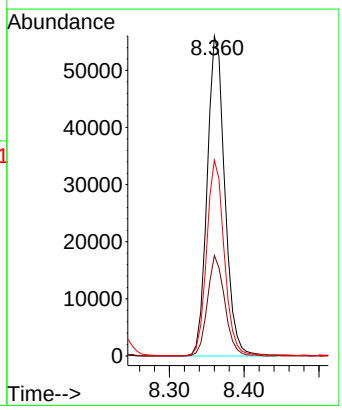
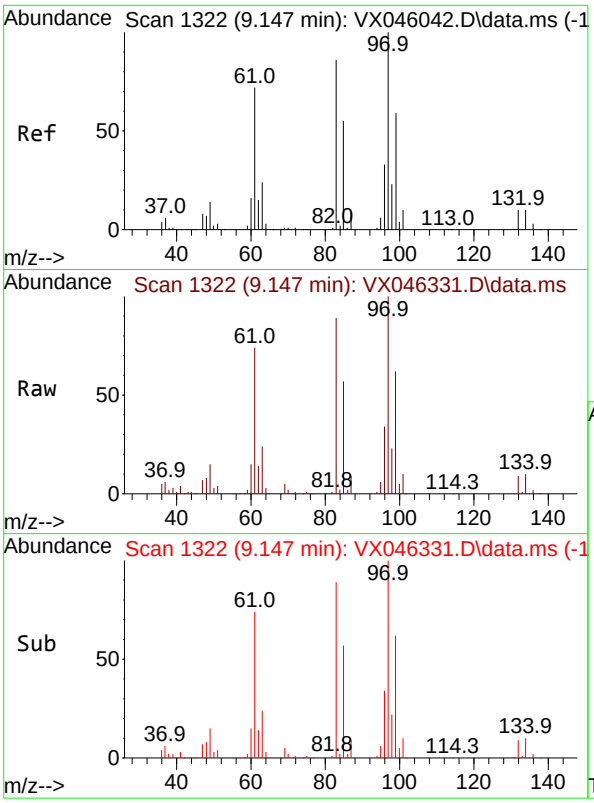


#54
cis-1,3-Dichloropropene
Concen: 54.982 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 75 Resp: 91612

Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.4	38.0
39	61.1	52.2	78.4

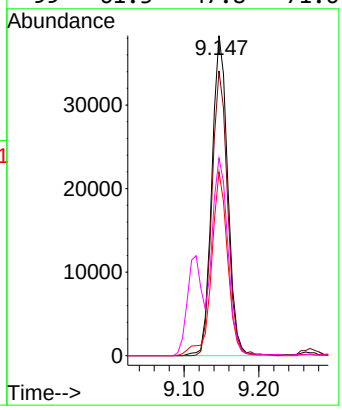




#55
1,1,2-Trichloroethane
Concen: 53.371 ug/l
RT: 9.147 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 97 Resp: 5666

Ion	Ratio	Lower	Upper
97	100		
83	89.0	69.0	103.6
85	57.5	44.3	66.5
99	61.3	47.8	71.6



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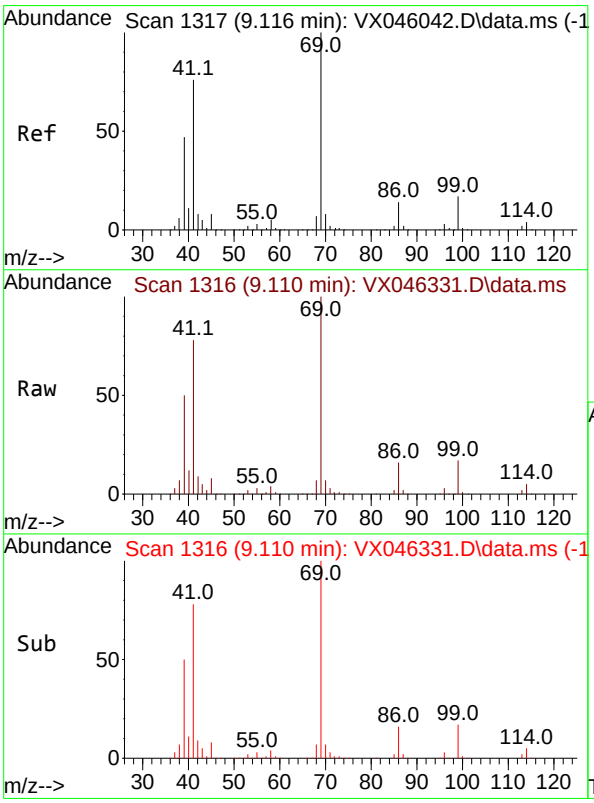
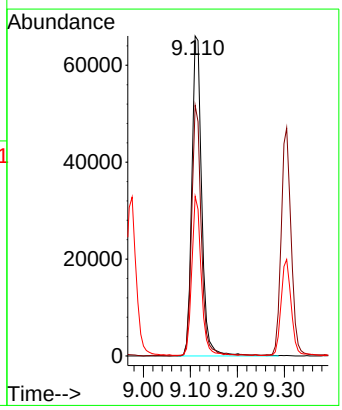
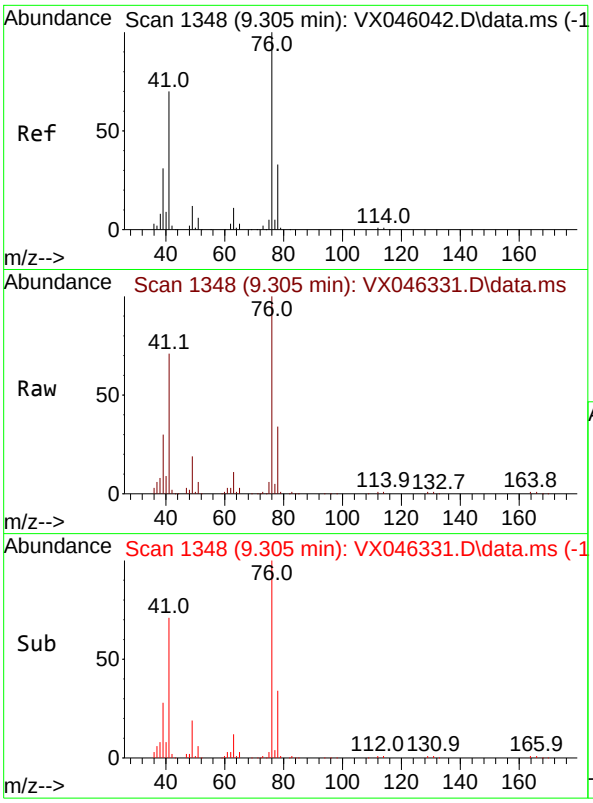


#56
Ethyl methacrylate
Concen: 57.619 ug/l
RT: 9.110 min Scan# 1316
Delta R.T. -0.006 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 69 Resp: 97493

Ion	Ratio	Lower	Upper
69	100		
41	75.9	60.8	91.2
39	47.4	39.0	58.6

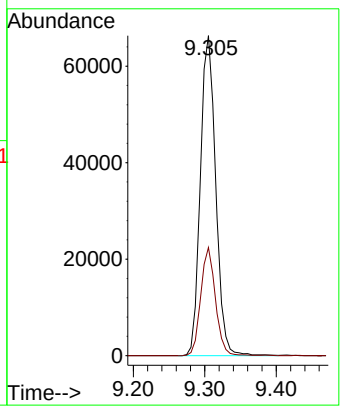




#57
1,3-Dichloropropane
Concen: 51.895 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 76 Resp: 9894

Ion	Ratio	Lower	Upper
76	100		
78	32.4	26.3	39.5



Instrument :
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ClientSampleId :
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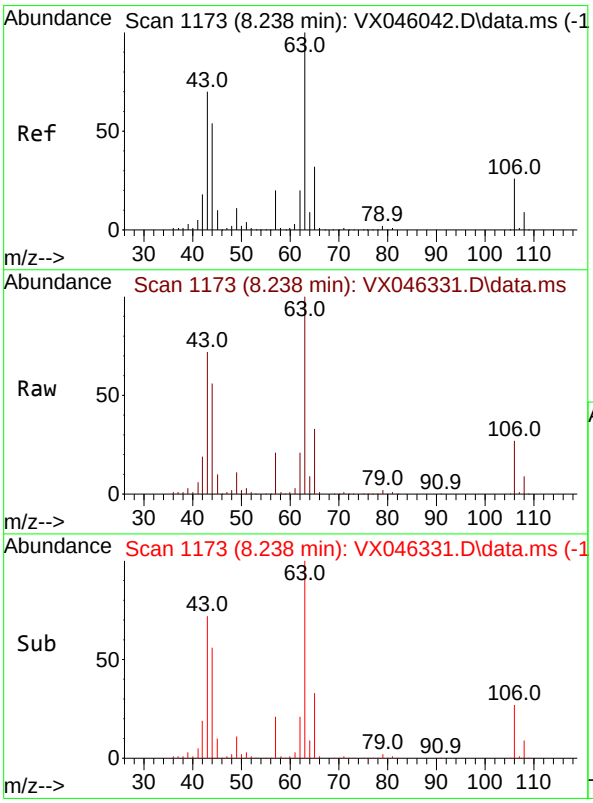
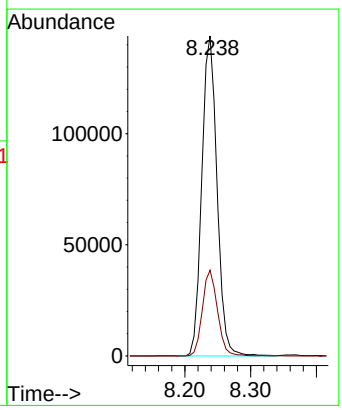
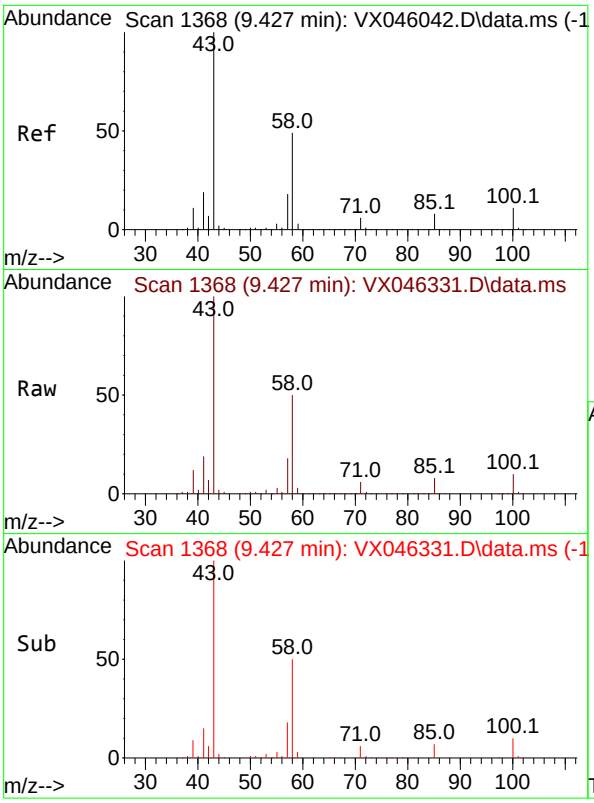


#58
2-Chloroethyl Vinyl ether
Concen: 268.416 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 63 Resp: 231542

Ion	Ratio	Lower	Upper
63	100		
106	26.5	21.5	32.3

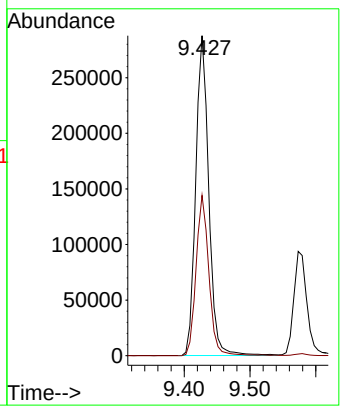




#59
2-Hexanone
Concen: 285.172 ug/l
RT: 9.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 43 Resp: 39570

Ion	Ratio	Lower	Upper
43	100		
58	49.5	24.9	74.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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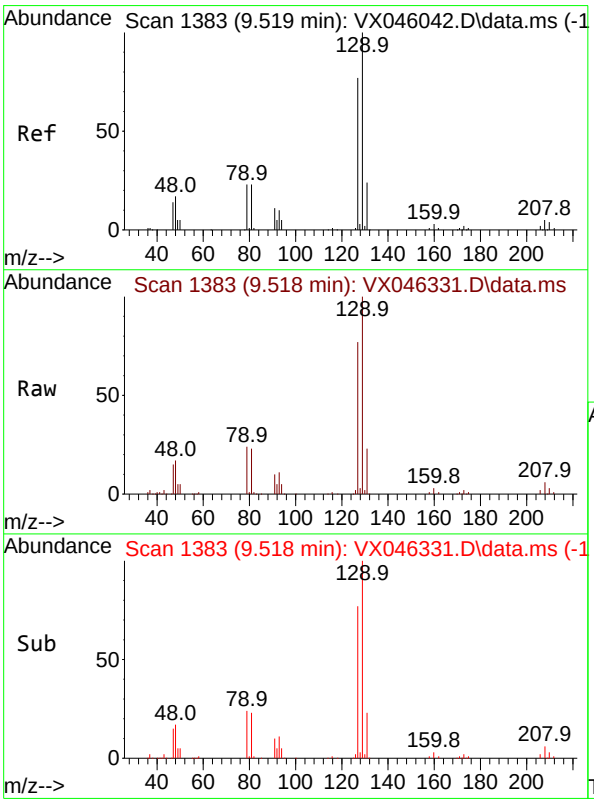
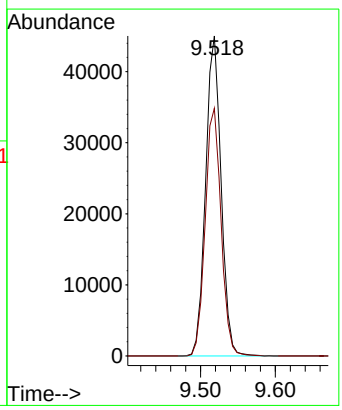
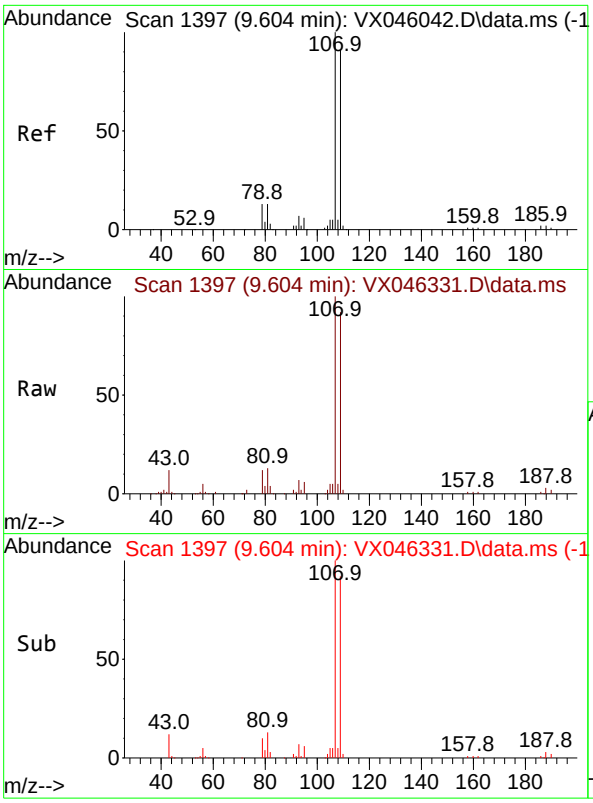


#60
Dibromochloromethane
Concen: 55.399 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion:129 Resp: 64591

Ion	Ratio	Lower	Upper
129	100		
127	79.4	39.3	117.8

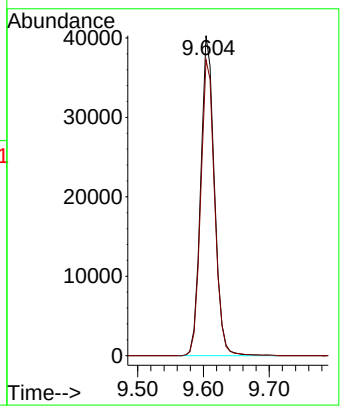




#61
1,2-Dibromoethane
Concen: 52.931 ug/l
RT: 9.604 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion:107 Resp: 5840

Ion	Ratio	Lower	Upper
107	100		
109	93.9	73.3	109.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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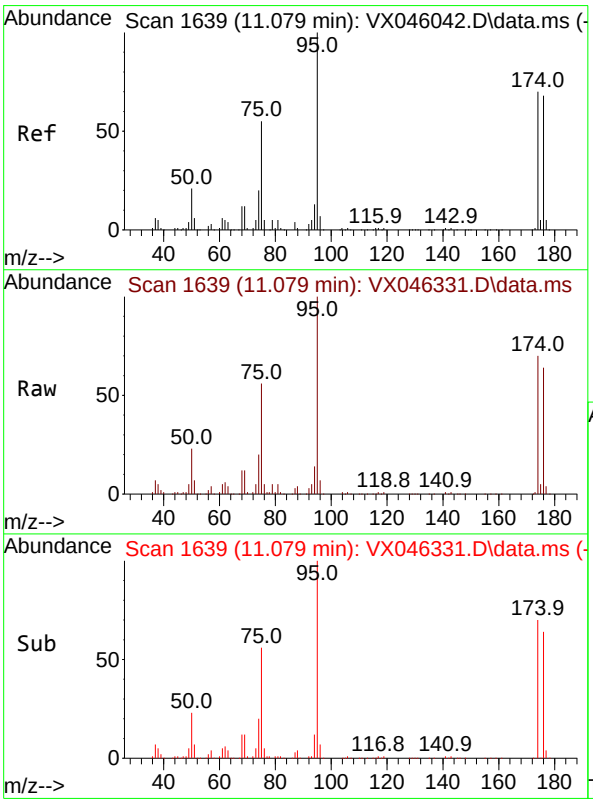
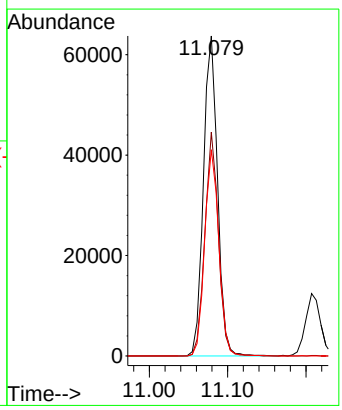
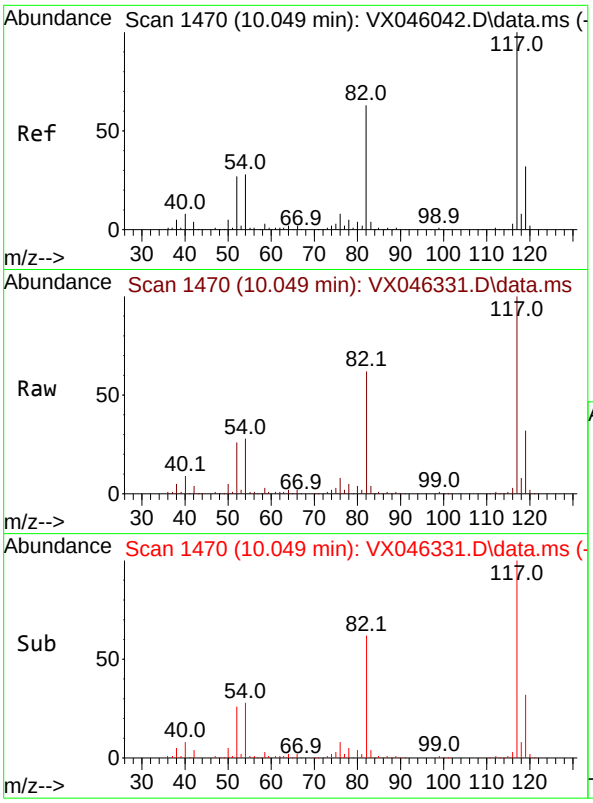


#62
4-Bromofluorobenzene
Concen: 53.716 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 95 Resp: 79568

Ion	Ratio	Lower	Upper
95	100		
174	67.3	0.0	135.8
176	64.6	0.0	131.4

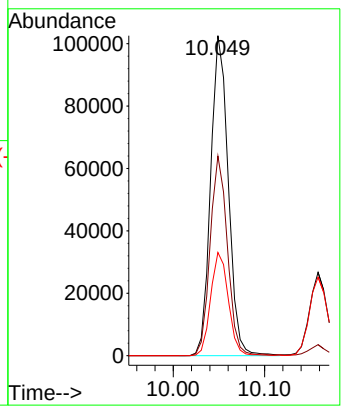




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion:117 Resp: 13712

Ion	Ratio	Lower	Upper
117	100		
82	62.4	50.6	76.0
119	32.2	25.8	38.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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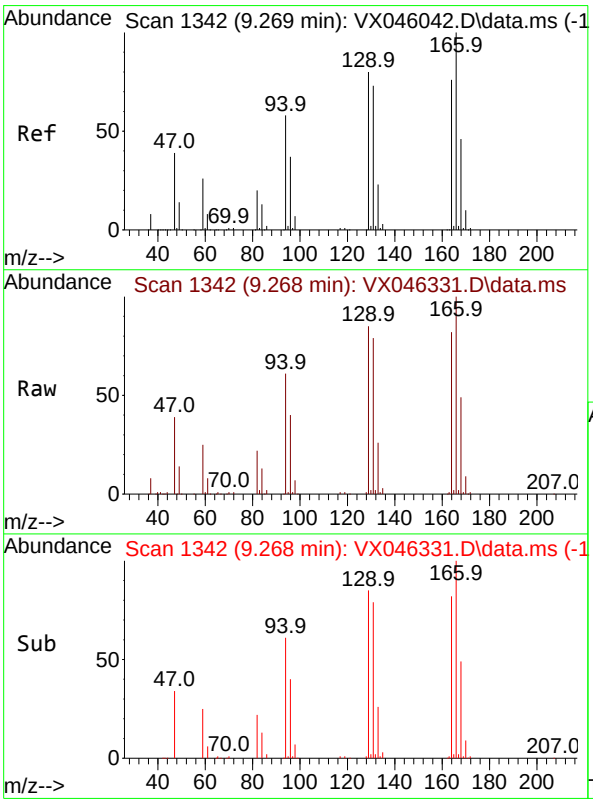
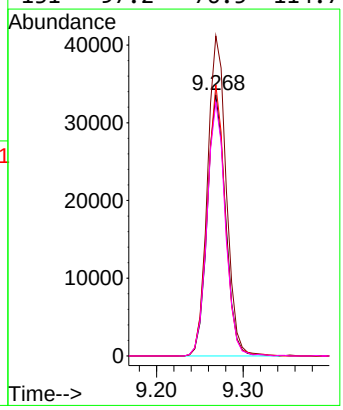
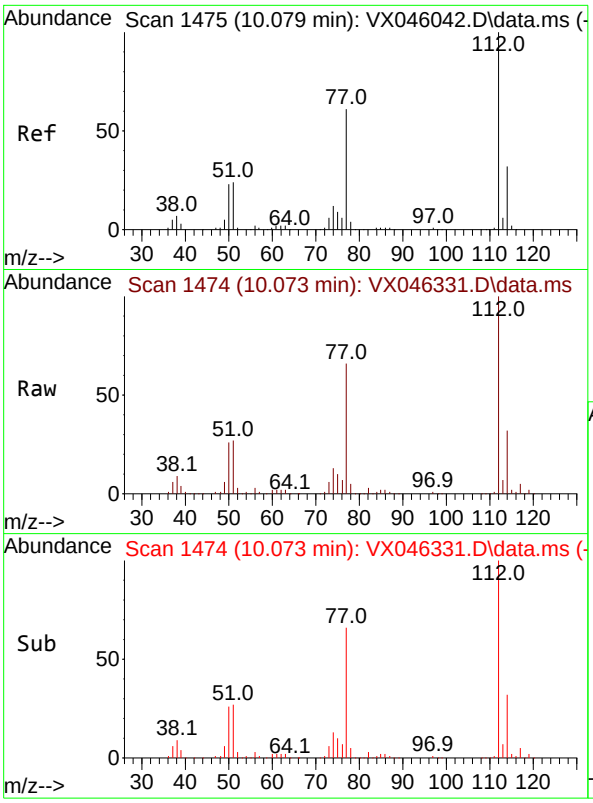


#64
Tetrachloroethene
Concen: 50.481 ug/l
RT: 9.268 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion:164 Resp: 48977

Ion	Ratio	Lower	Upper
164	100		
166	122.6	105.0	157.6
129	103.9	83.5	125.3
131	97.2	76.5	114.7

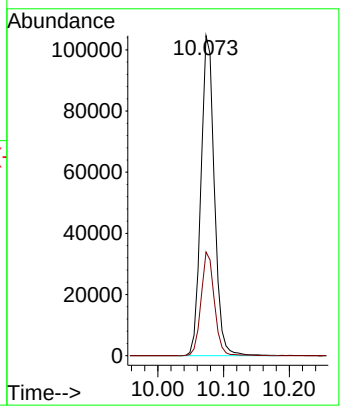




#65
Chlorobenzene
Concen: 49.525 ug/l
RT: 10.073 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion:112 Resp: 14863

Ion	Ratio	Lower	Upper
112	100		
114	32.4	25.4	38.2



Instrument :
MSVOA_X
ClientSampleId :
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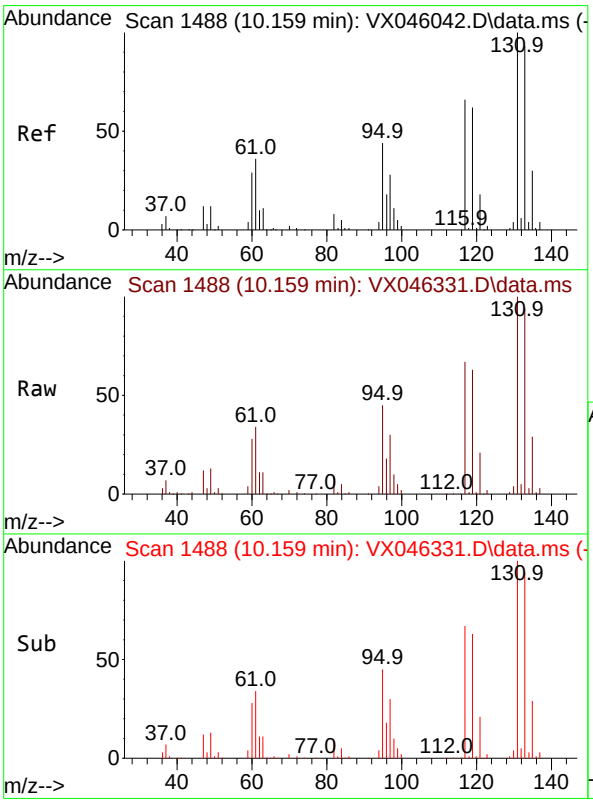
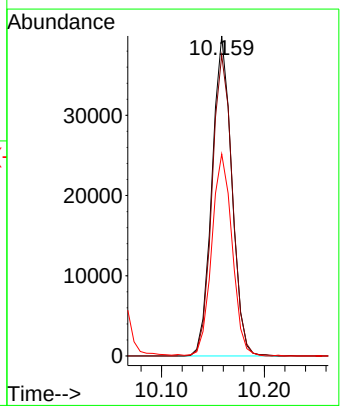
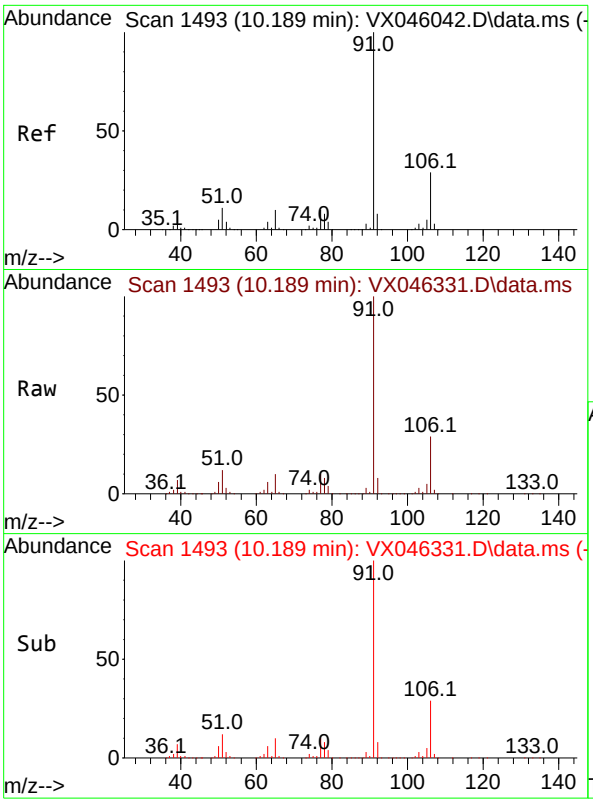


#66
1,1,1,2-Tetrachloroethane
Concen: 52.010 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion:131 Resp: 53302

Ion	Ratio	Lower	Upper
131	100		
133	96.3	47.3	141.9
119	64.8	31.6	95.0

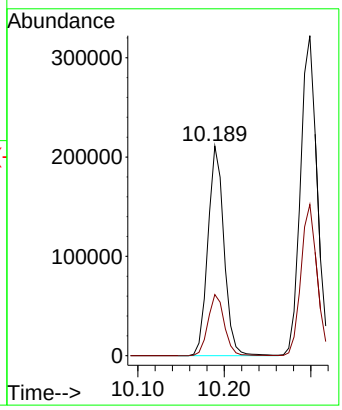




#67
Ethyl Benzene
Concen: 51.457 ug/l
RT: 10.189 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 91 Resp: 27223

Ion	Ratio	Lower	Upper
91	100		
106	29.2	23.4	35.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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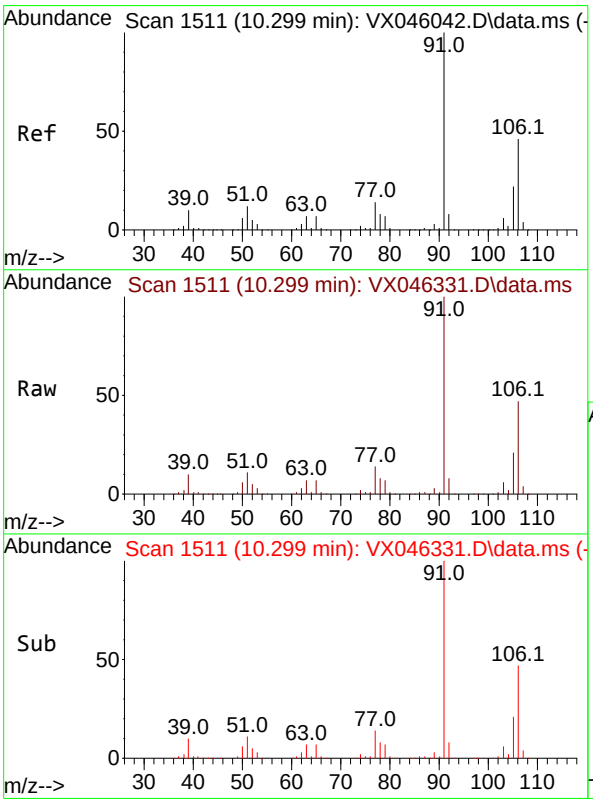
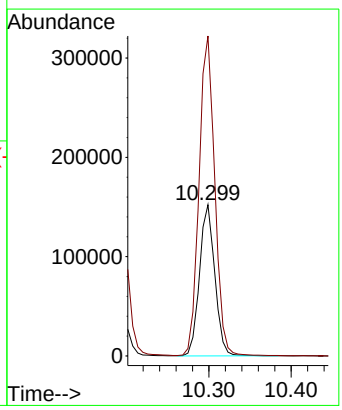
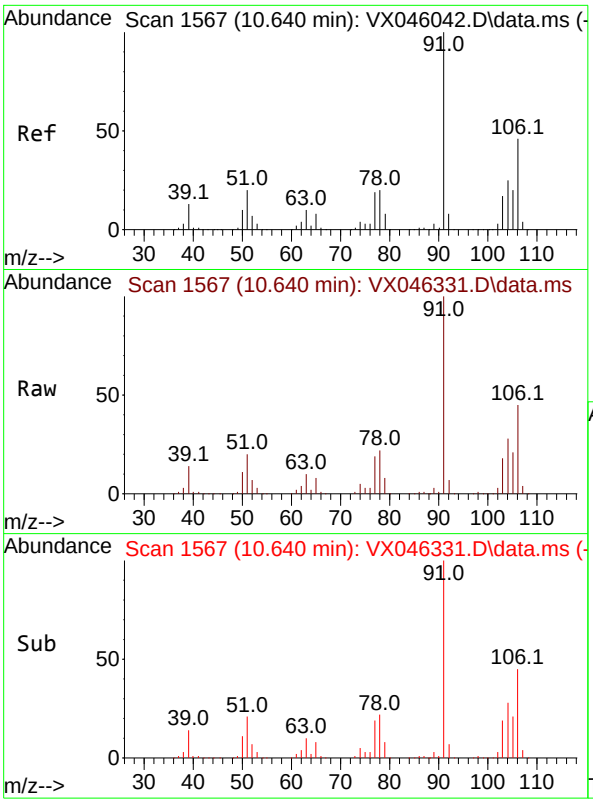


#68
m/p-Xylenes
Concen: 101.954 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion:106 Resp: 197275

Ion	Ratio	Lower	Upper
106	100		
91	217.8	171.2	256.8

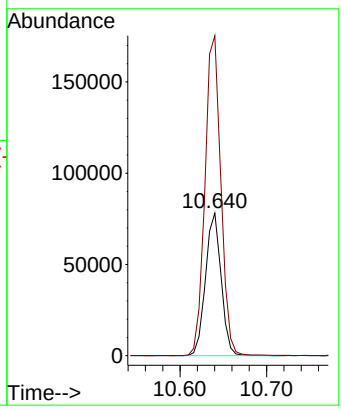




#69
o-Xylene
Concen: 51.899 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion:106 Resp: 9790

Ion	Ratio	Lower	Upper
106	100		
91	229.1	112.7	338.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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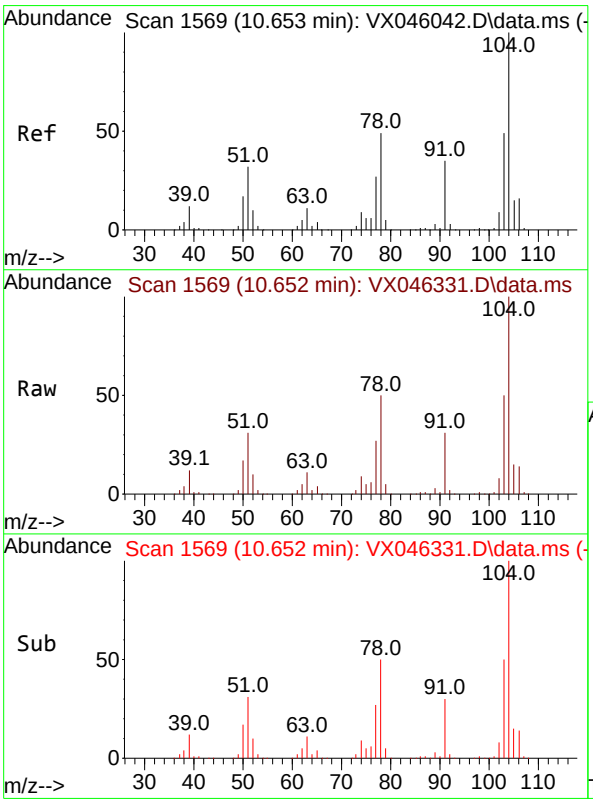
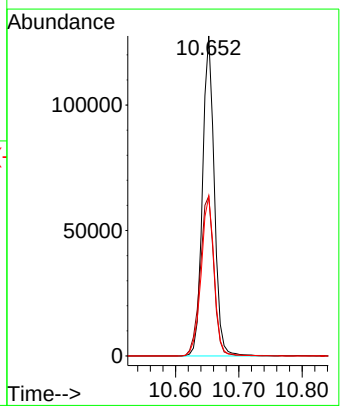
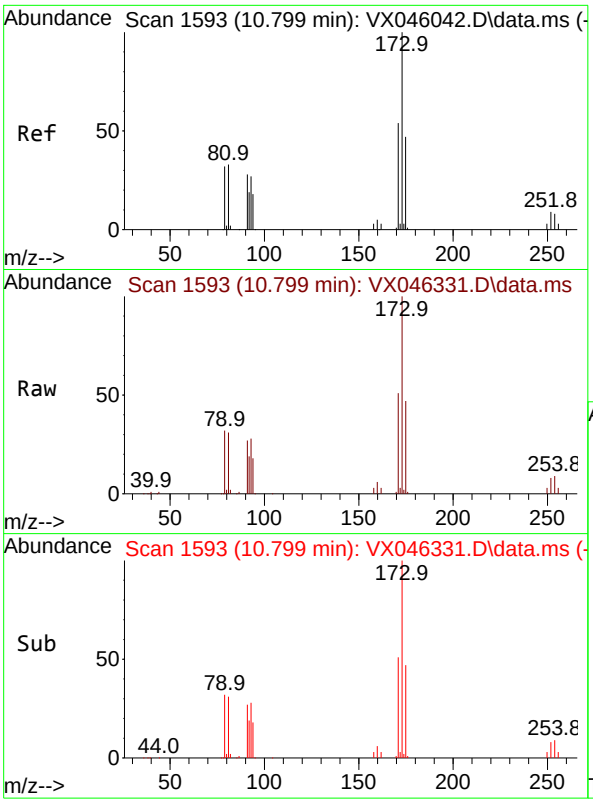


#70
Styrene
Concen: 53.599 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion:104 Resp: 165627

Ion	Ratio	Lower	Upper
104	100		
78	58.1	45.7	68.5
103	55.3	43.7	65.5

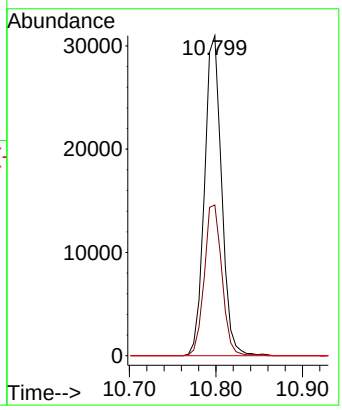




#71
Bromoform
Concen: 55.224 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion:173 Resp: 4249

Ion	Ratio	Lower	Upper
173	100		
175	48.6	23.4	70.0
254	0.0	0.0	0.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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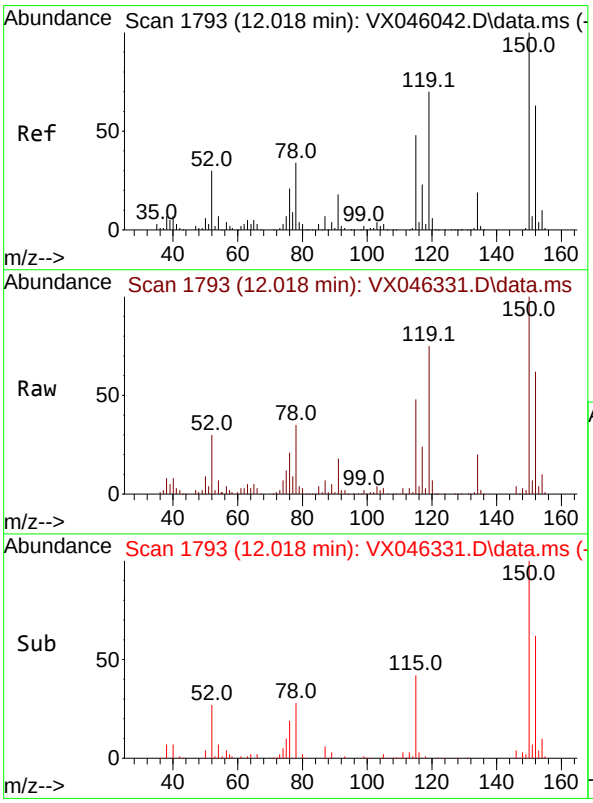
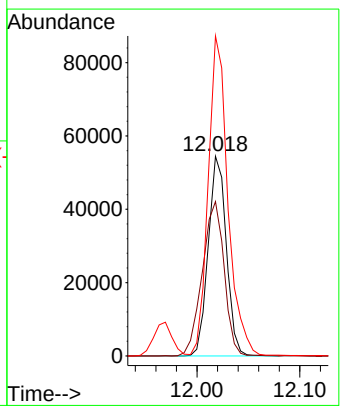
Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025

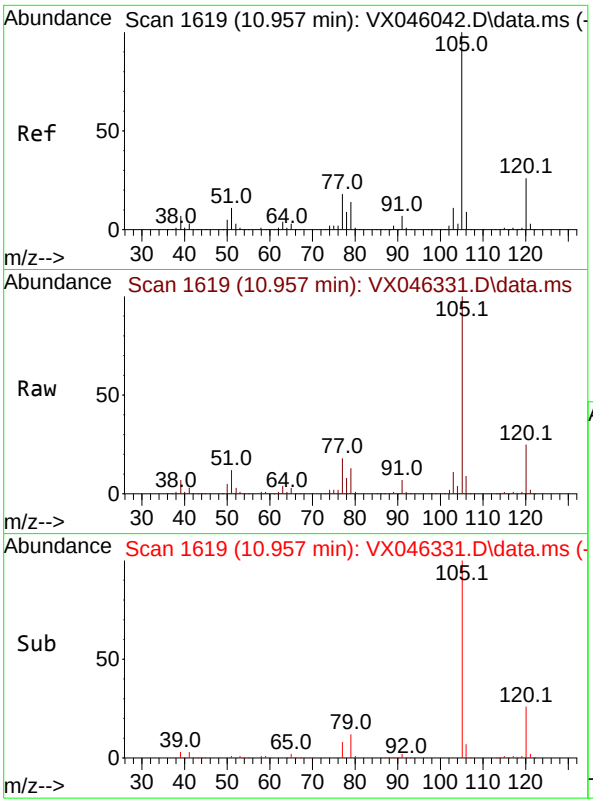


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion:152 Resp: 66629

Ion	Ratio	Lower	Upper
152	100		
115	93.5	46.9	140.7
150	175.2	0.0	351.0

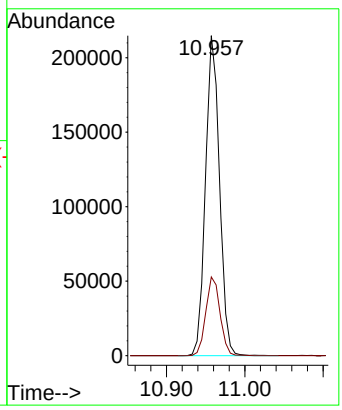




#73
Isopropylbenzene
Concen: 51.196 ug/l
RT: 10.957 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion:105 Resp: 26556

Ion	Ratio	Lower	Upper
105	100		
120	25.0	12.8	38.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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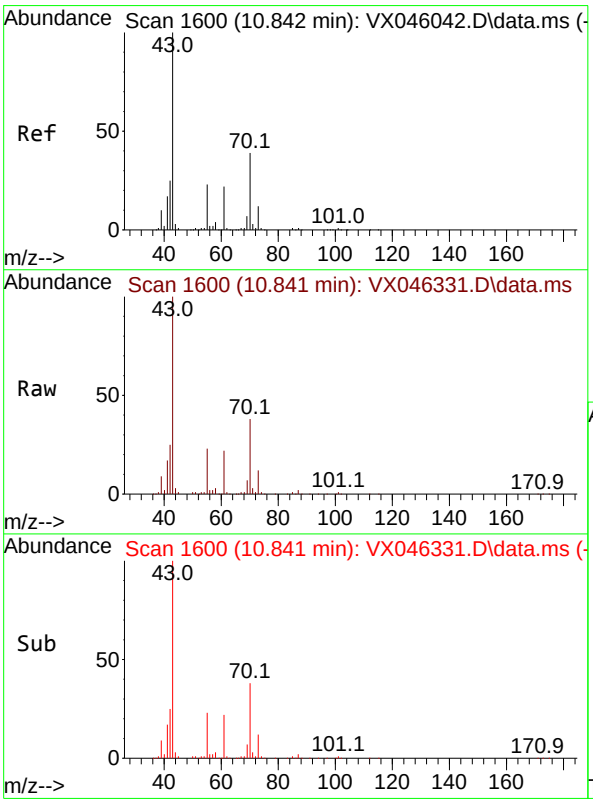
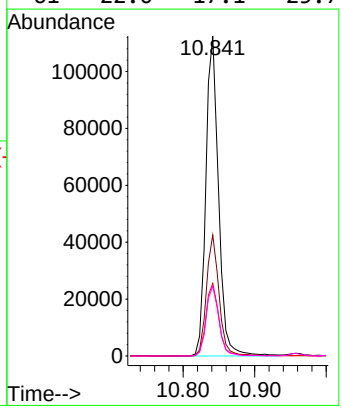
Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025

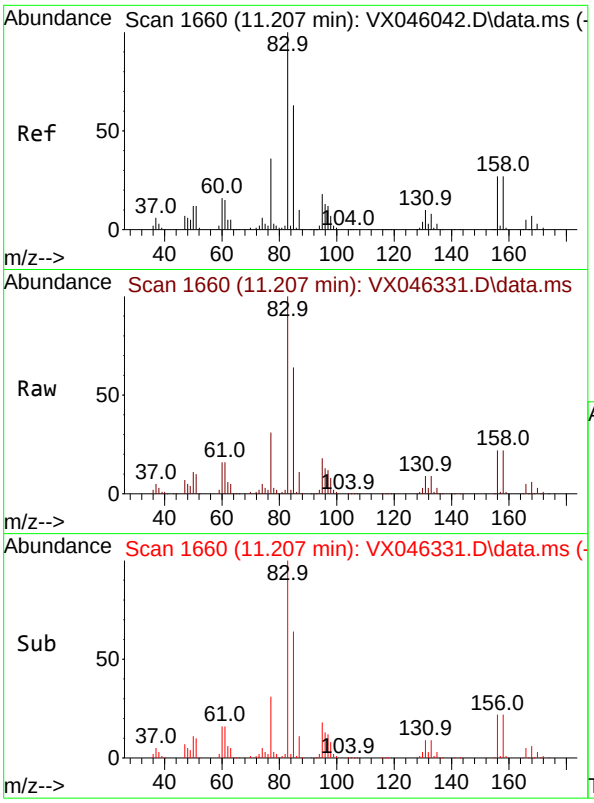


#74
N-amyl acetate
Concen: 54.091 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 43 Resp: 138648

Ion	Ratio	Lower	Upper
43	100		
70	37.7	30.9	46.3
55	23.4	18.7	28.1
61	22.0	17.1	25.7

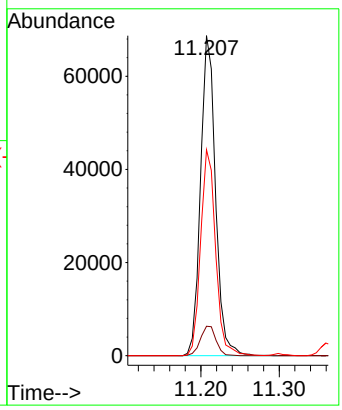




#75
1,1,2,2-Tetrachloroethane
Concen: 50.066 ug/l
RT: 11.207 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 83 Resp: 9101

Ion	Ratio	Lower	Upper
83	100		
131	9.6	5.0	14.9
85	64.5	31.9	95.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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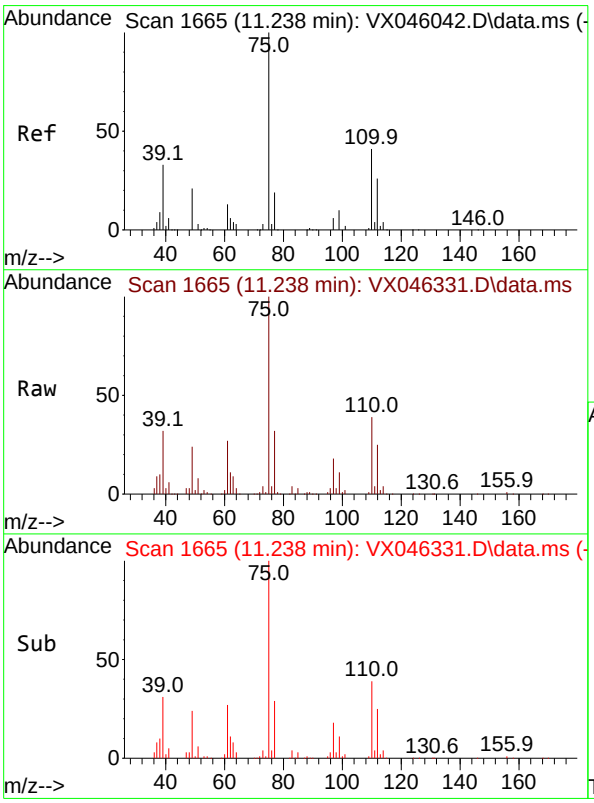
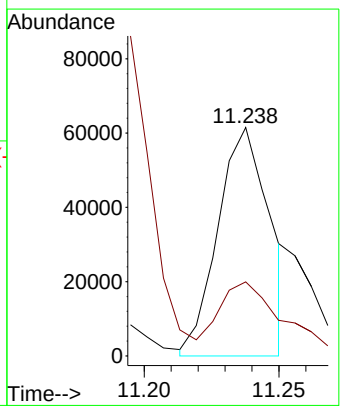
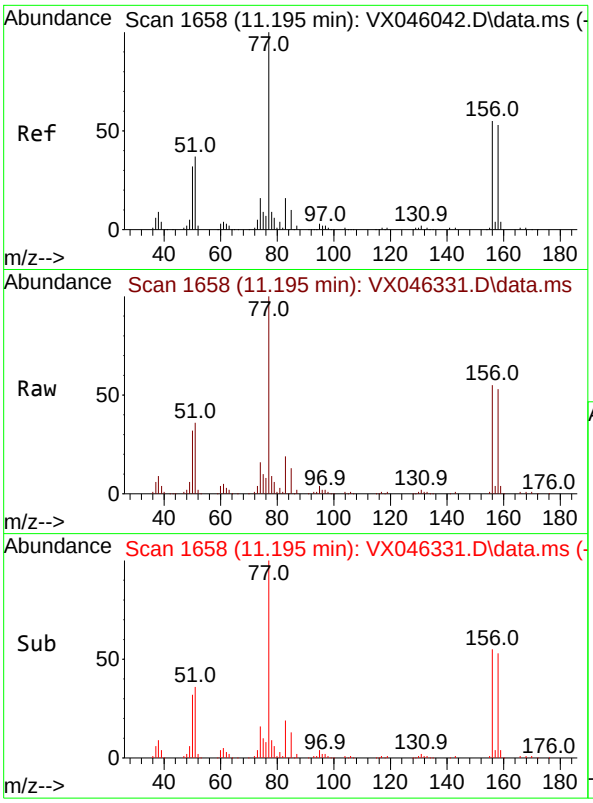


#76
1,2,3-Trichloropropane
Concen: 51.027 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 75 Resp: 81837

Ion	Ratio	Lower	Upper
75	100		
77	40.8	20.5	61.5

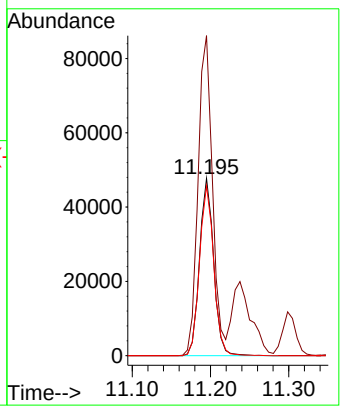




#77
Bromobenzene
Concen: 49.441 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion:156 Resp: 5954

Ion	Ratio	Lower	Upper
156	100		
77	185.1	92.8	278.3
158	97.2	48.8	146.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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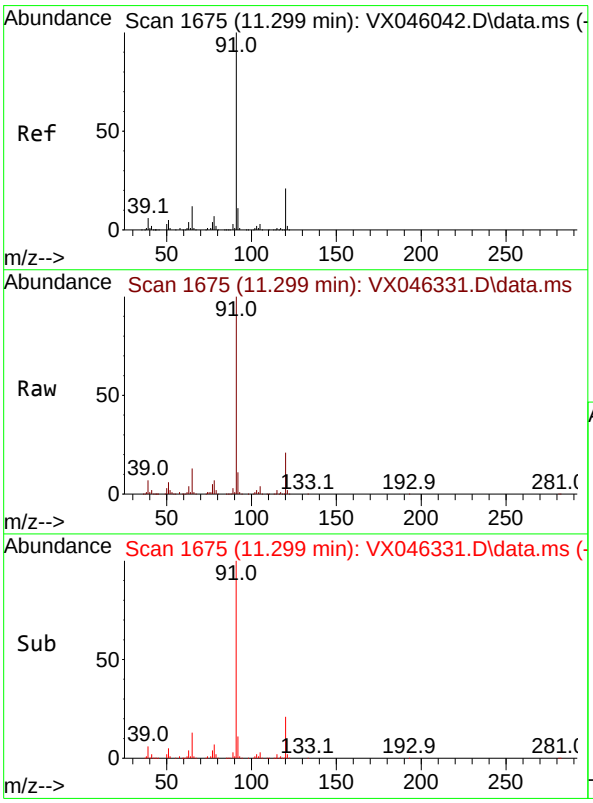
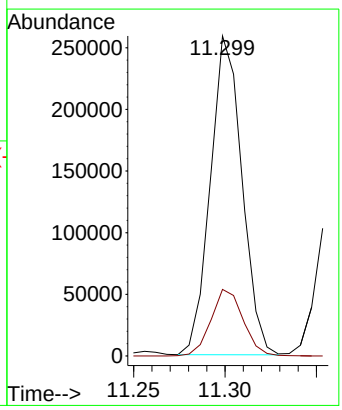
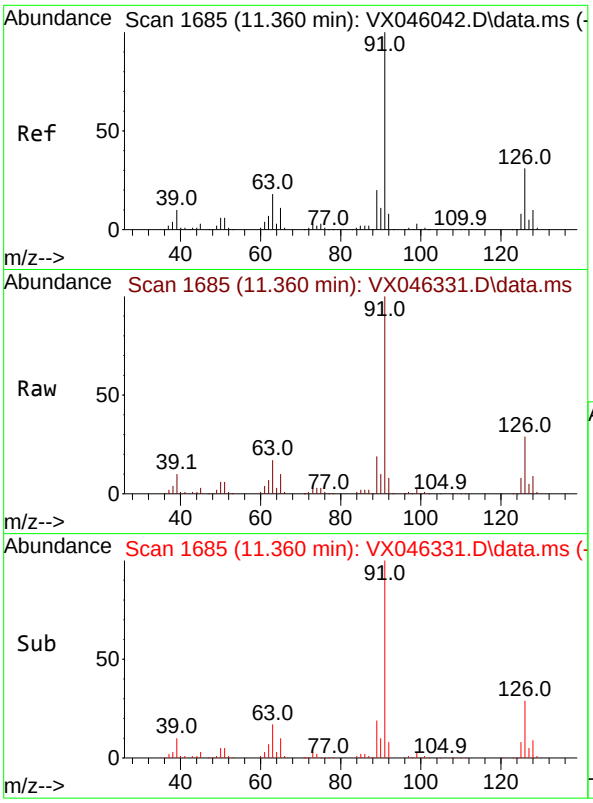


#78
n-propylbenzene
Concen: 51.673 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 91 Resp: 311660

Ion	Ratio	Lower	Upper
91	100		
120	21.2	10.8	32.4





#79
2-Chlorotoluene
Concen: 49.128 ug/l
RT: 11.360 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 91 Resp: 19112

Ion	Ratio	Lower	Upper
91	100		
126	30.8	15.6	46.7

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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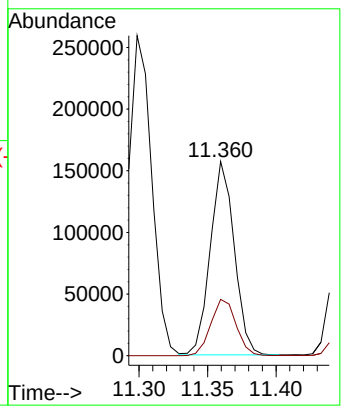
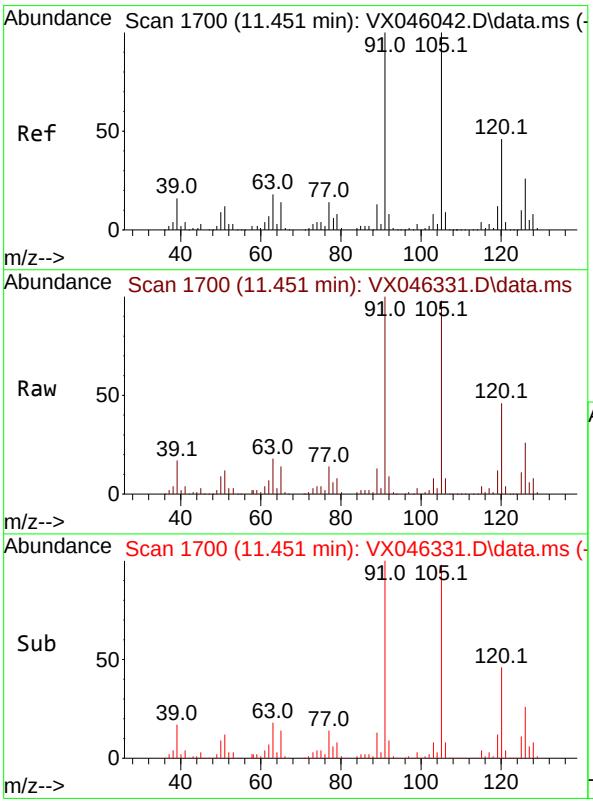
Supervised By :Mahesh Dadoda 05/26/2025

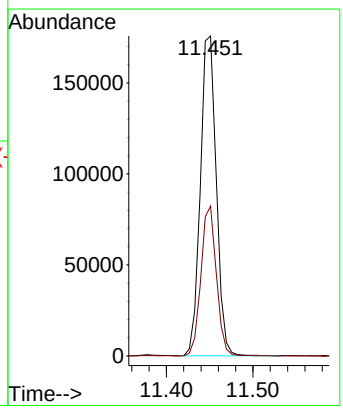


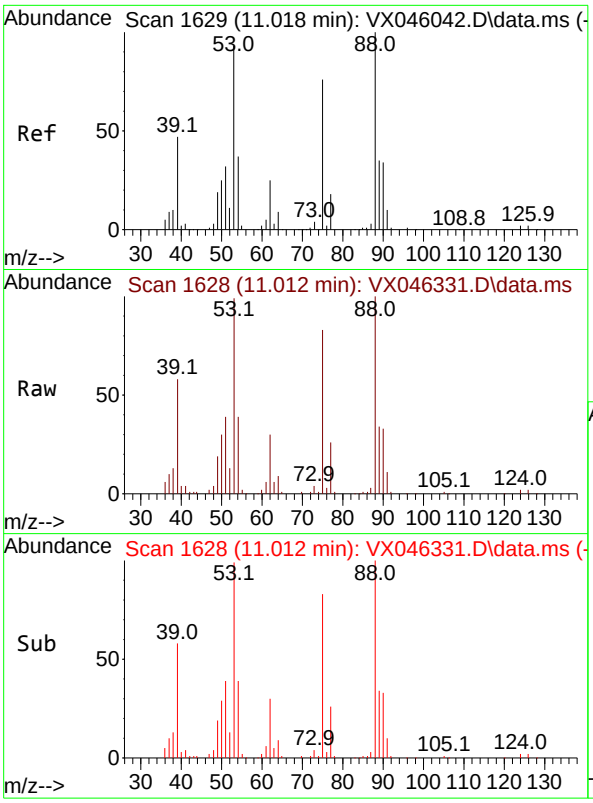


#80
1,3,5-Trimethylbenzene
Concen: 51.877 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion:105 Resp: 224812

Ion	Ratio	Lower	Upper
105	100		
120	45.4	23.1	69.2





#81
trans-1,4-Dichloro-2-butene
Concen: 54.814 ug/l
RT: 11.012 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 75 Resp: 2700

Ion	Ratio	Lower	Upper
75	100		
53	121.3	100.5	150.7
89	45.7	37.0	55.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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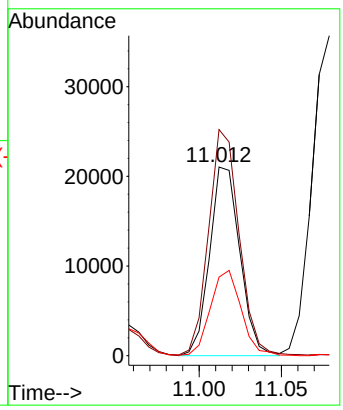
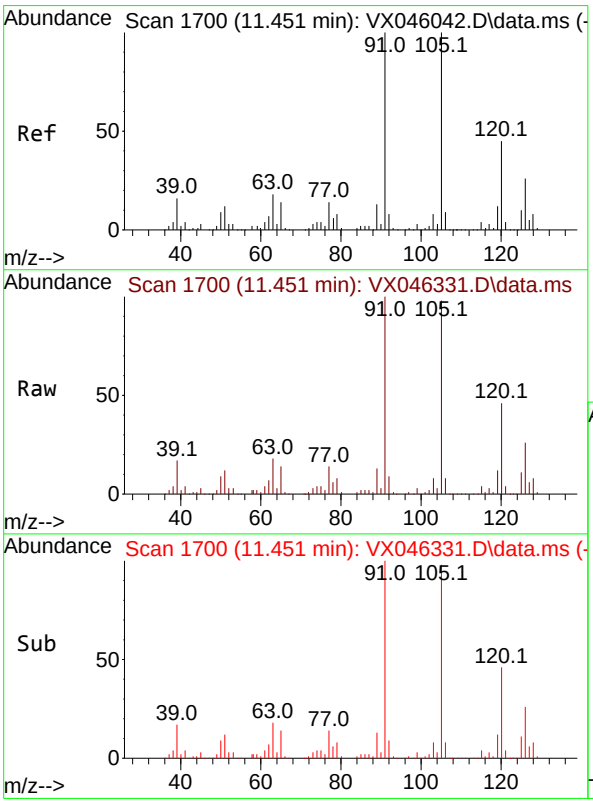
Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025

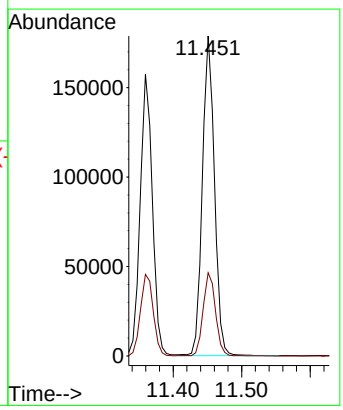


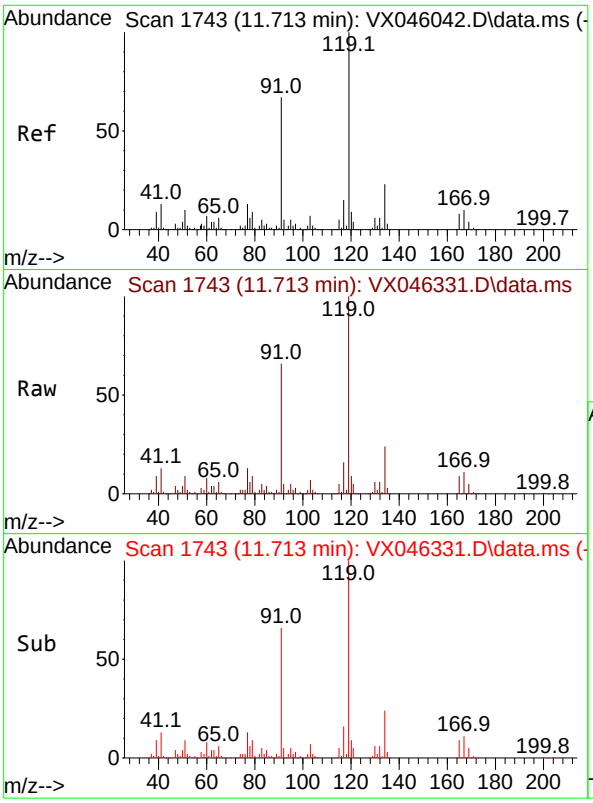


#82
4-Chlorotoluene
Concen: 50.910 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 91 Resp: 219638

Ion	Ratio	Lower	Upper
91	100		
126	26.8	13.3	39.8

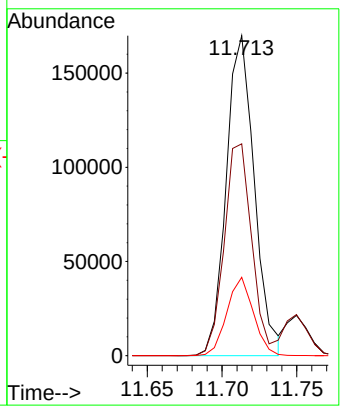




#83
tert-Butylbenzene
Concen: 50.888 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion:119 Resp: 22213

Ion	Ratio	Lower	Upper
119	100		
91	64.6	32.9	98.7
134	23.1	11.4	34.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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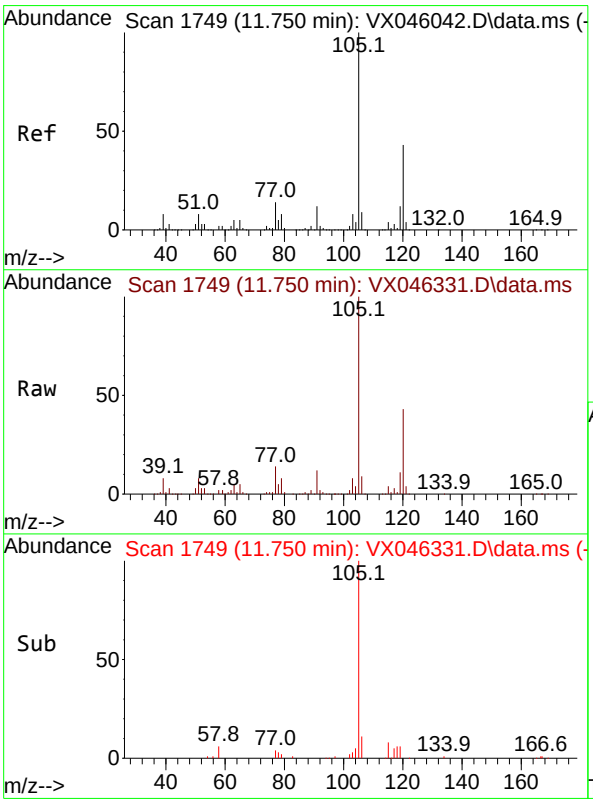
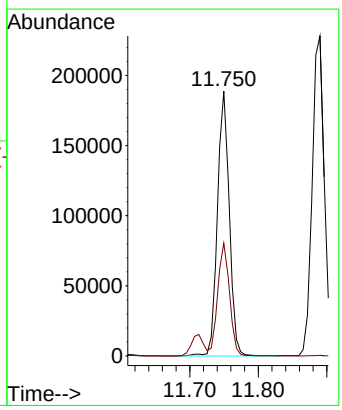
Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025

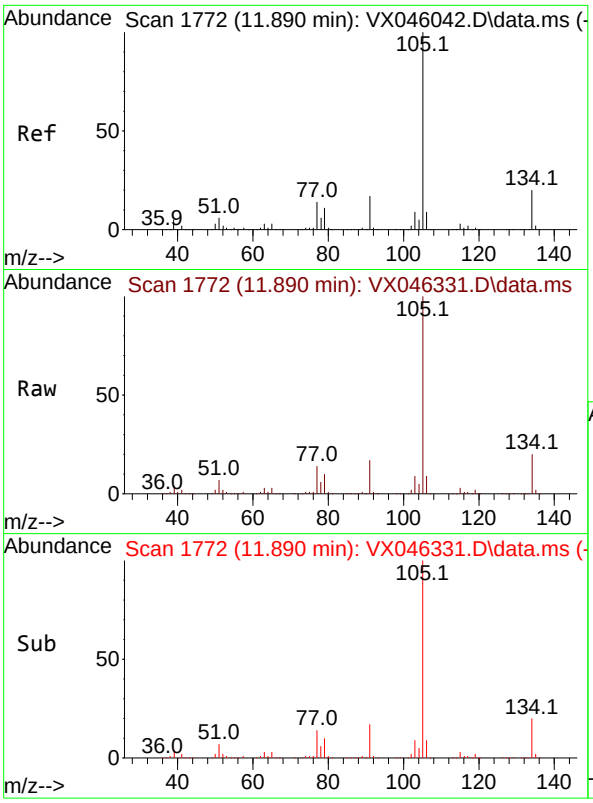


#84
1,2,4-Trimethylbenzene
Concen: 51.438 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion:105 Resp: 225740

Ion	Ratio	Lower	Upper
105	100		
120	42.4	21.2	63.6

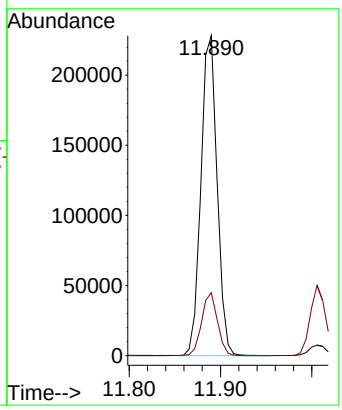




#85
sec-Butylbenzene
Concen: 52.265 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion:105 Resp: 28012

Ion	Ratio	Lower	Upper
105	100		
134	19.2	9.7	29.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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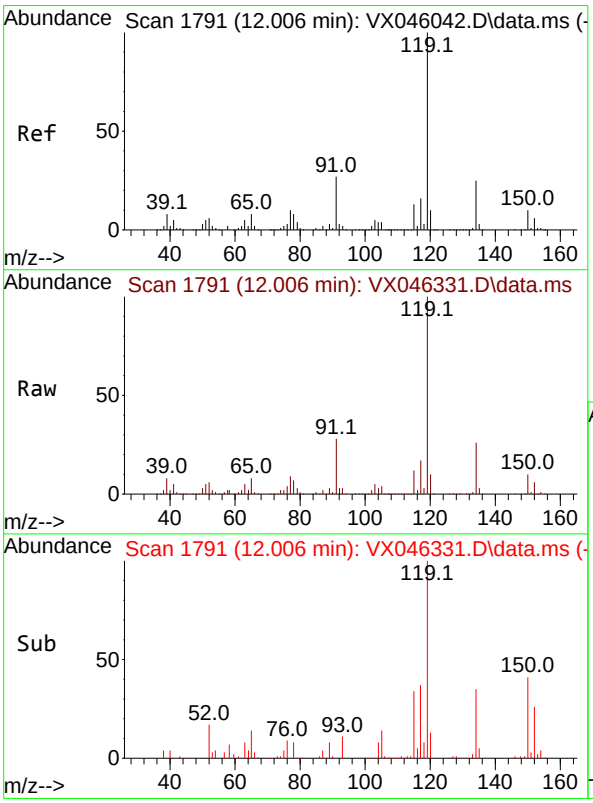
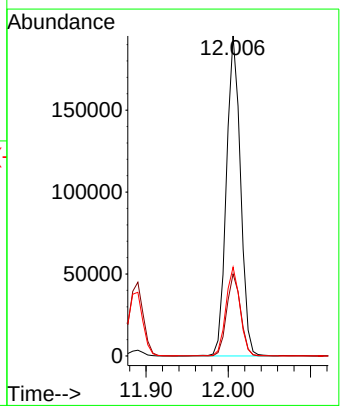
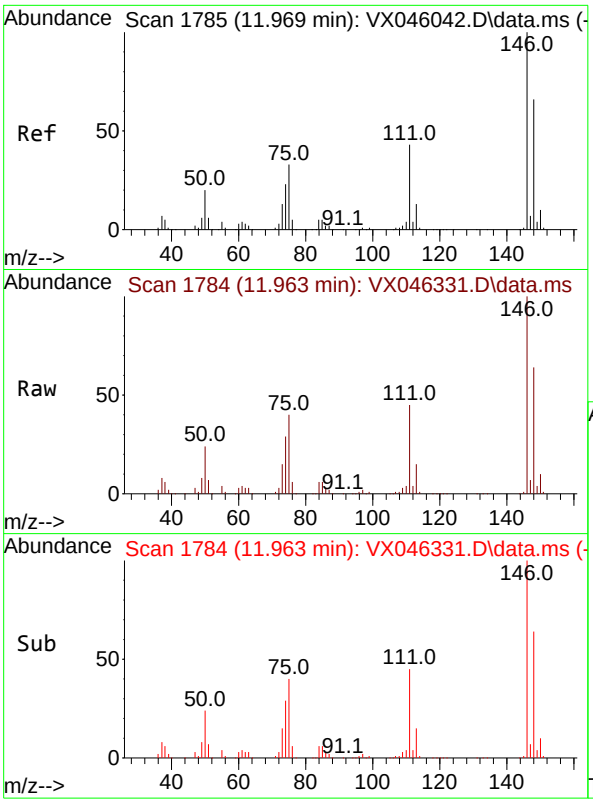


#86
p-Isopropyltoluene
Concen: 52.479 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion:119 Resp: 232168

Ion	Ratio	Lower	Upper
119	100		
134	25.3	12.5	37.5
91	27.5	13.8	41.4

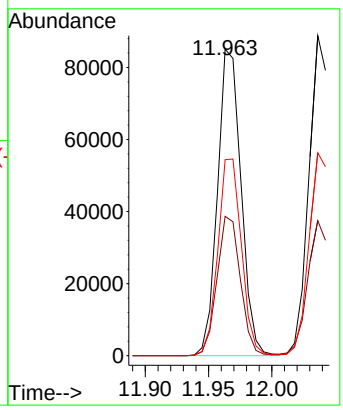




#87
1,3-Dichlorobenzene
Concen: 50.025 ug/l
RT: 11.963 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion:146 Resp: 10994

Ion	Ratio	Lower	Upper
146	100		
111	45.2	22.1	66.3
148	64.2	32.1	96.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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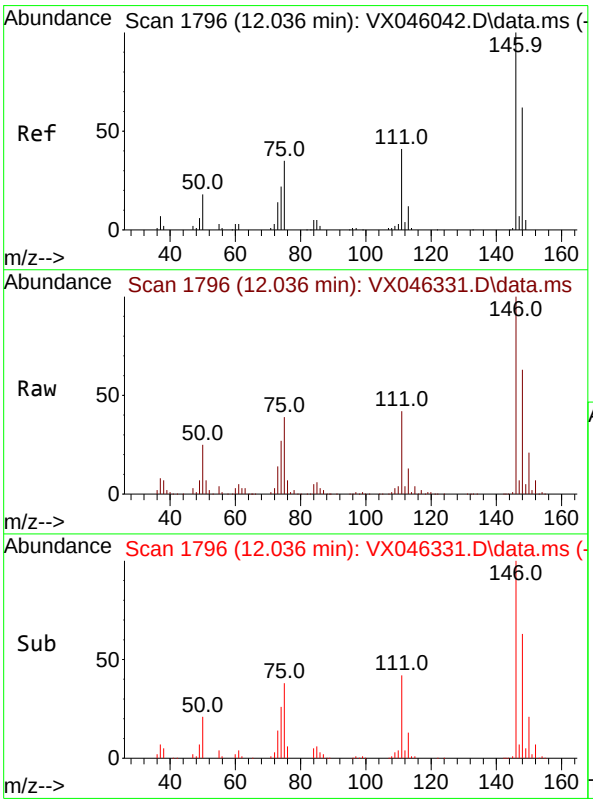
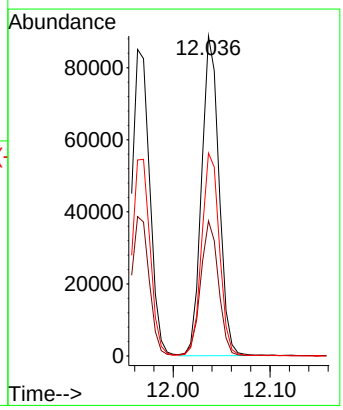
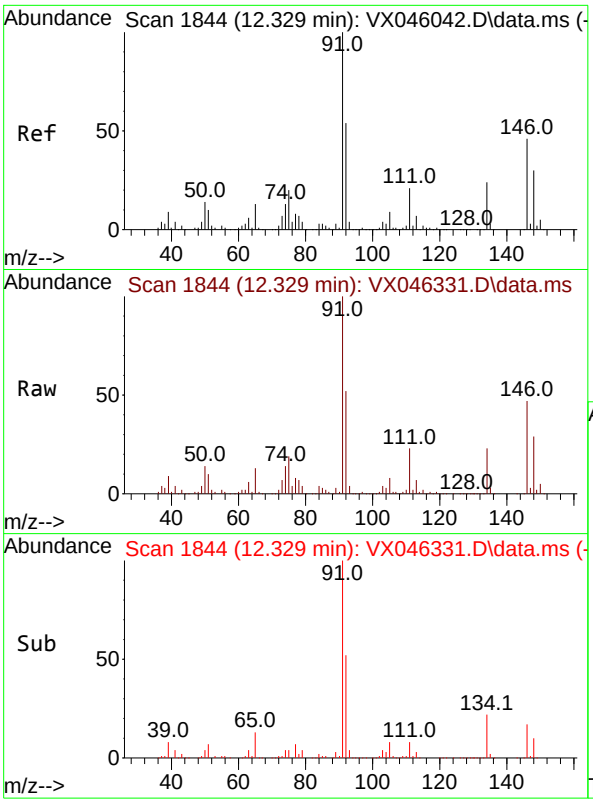


#88
1,4-Dichlorobenzene
Concen: 49.641 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion:146 Resp: 111425

Ion	Ratio	Lower	Upper
146	100		
111	43.0	21.3	63.9
148	64.9	31.9	95.5

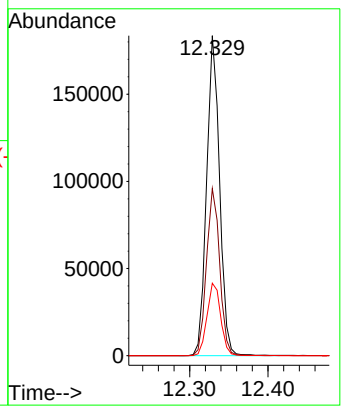




#89
n-Butylbenzene
Concen: 54.179 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 91 Resp: 21025

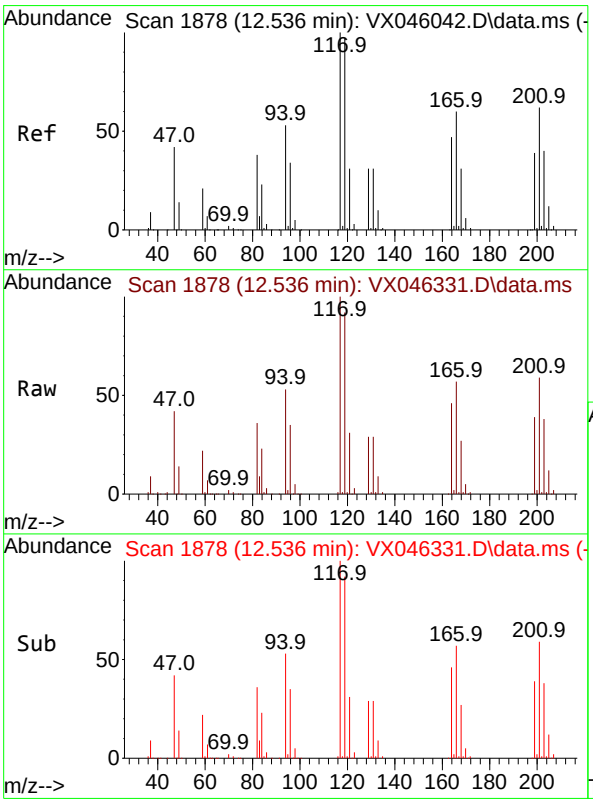
Ion	Ratio	Lower	Upper
91	100		
92	53.3	26.9	80.7
134	23.9	11.8	35.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

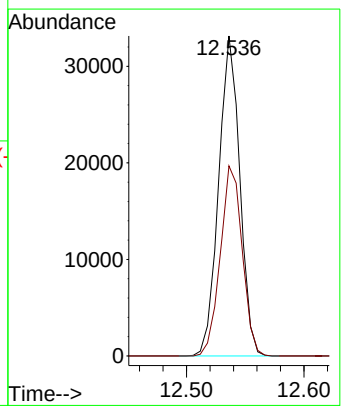
Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025

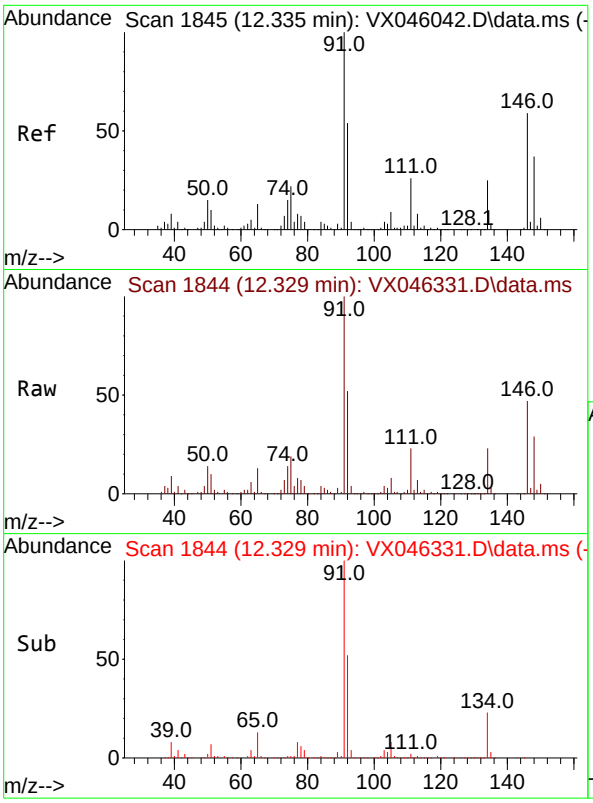


#90
Hexachloroethane
Concen: 53.122 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion:117 Resp: 41404

Ion	Ratio	Lower	Upper
117	100		
201	61.6	31.6	94.7

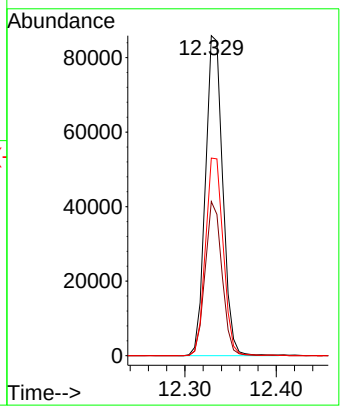




#91
1,2-Dichlorobenzene
Concen: 51.002 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion:146 Resp: 11248

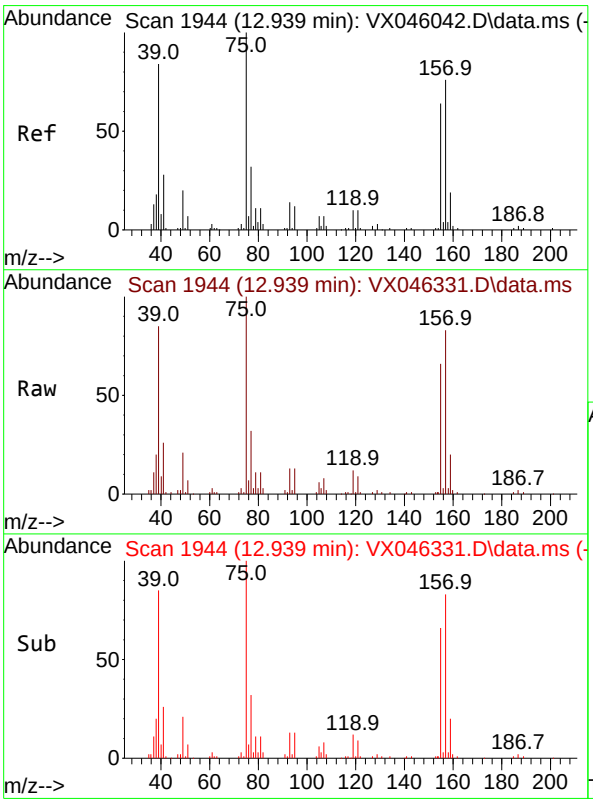
Ion	Ratio	Lower	Upper
146	100		
111	46.8	22.4	67.3
148	63.4	31.6	94.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

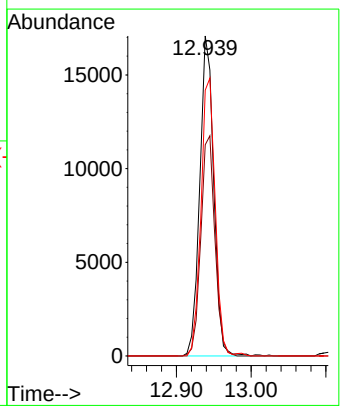
Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025

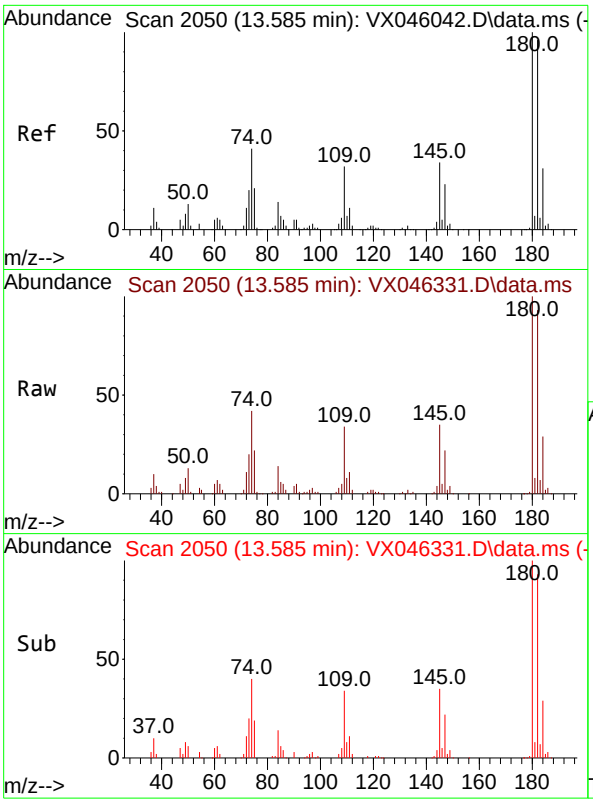


#92
1,2-Dibromo-3-Chloropropane
Concen: 55.085 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 75 Resp: 22183

Ion	Ratio	Lower	Upper
75	100		
155	69.3	34.9	104.8
157	88.3	43.8	131.4

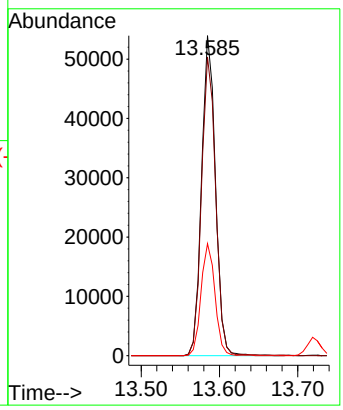




#93
1,2,4-Trichlorobenzene
Concen: 52.307 ug/l
RT: 13.585 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion:180 Resp: 6626

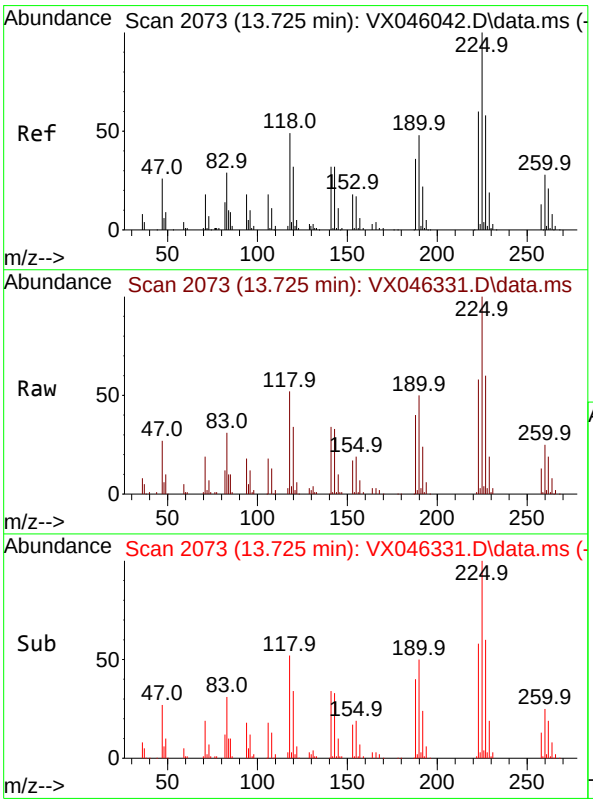
Ion	Ratio	Lower	Upper
180	100		
182	95.3	47.9	143.8
145	35.3	17.1	51.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

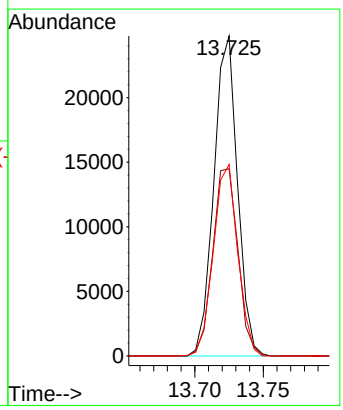
Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025

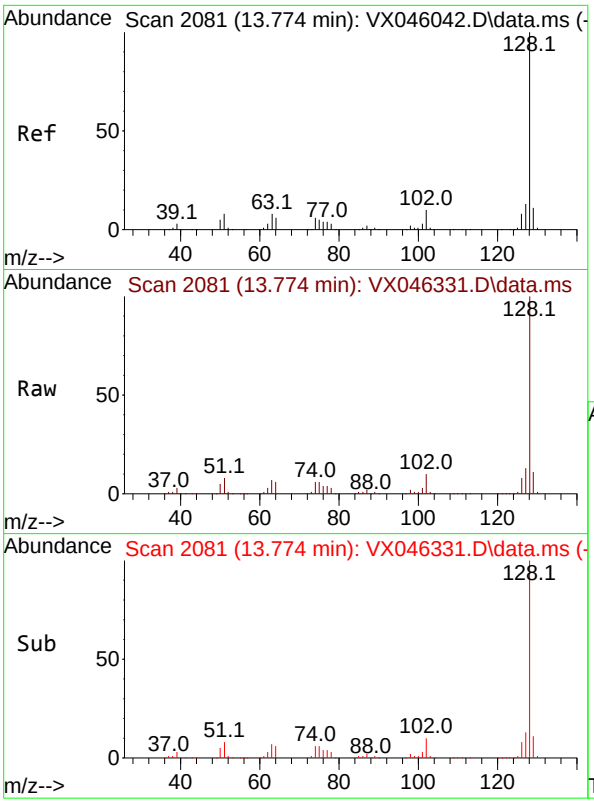


#94
Hexachlorobutadiene
Concen: 53.637 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion:225 Resp: 29675

Ion	Ratio	Lower	Upper
225	100		
223	62.4	30.8	92.4
227	61.8	30.9	92.7

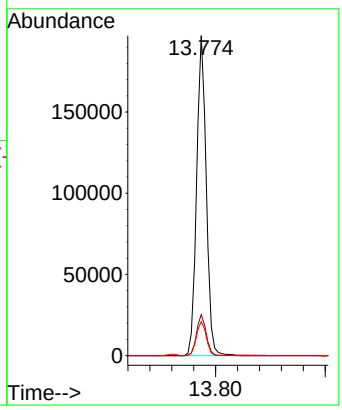




#95
Naphthalene
Concen: 52.127 ug/l
RT: 13.774 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion:128 Resp: 24218

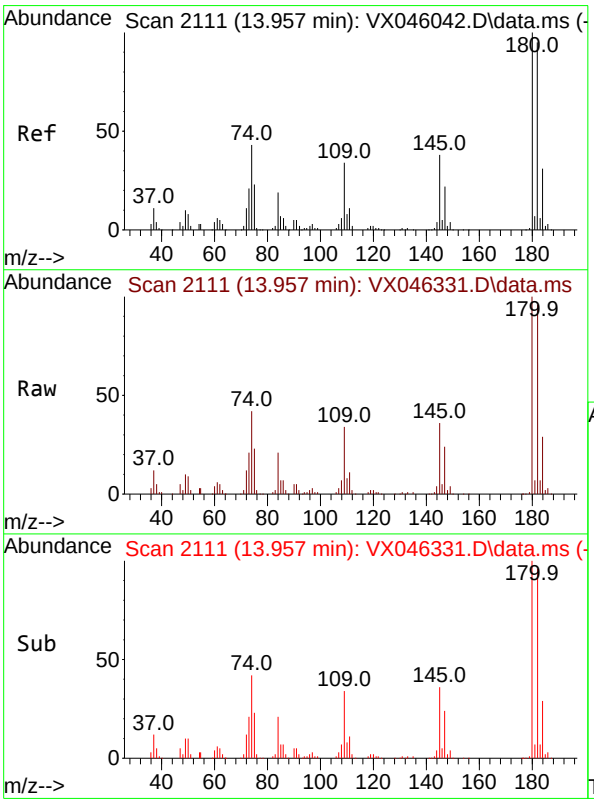
Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.4	15.6
129	10.9	8.6	13.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

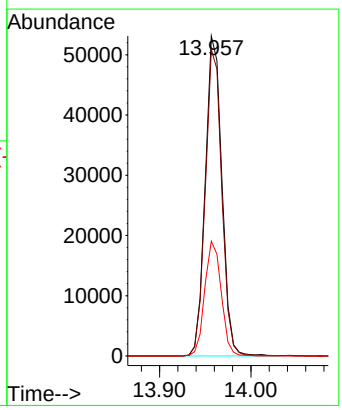
Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025



#96
1,2,3-Trichlorobenzene
Concen: 51.275 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion:180 Resp: 67021

Ion	Ratio	Lower	Upper
180	100		
182	95.0	47.8	143.3
145	35.5	18.1	54.3



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046331.D
Acq On : 23 May 2025 09:24
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: May 23 22:55:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	93	0.00
2	T	Dichlorodifluoromethane	0.765	0.718	6.1	77	0.00
3	P	Chloromethane	0.742	0.654	11.9	78	0.00
4	C	Vinyl Chloride	0.691	0.592	14.3#	77	0.00
5	T	Bromomethane	0.320	0.288	10.0	82	0.00
6	T	Chloroethane	0.369	0.378	-2.4	93	0.00
7	T	Trichlorofluoromethane	1.021	0.993	2.7	86	0.00
8	T	Diethyl Ether	0.347	0.339	2.3	93	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.632	0.618	2.2	89	0.00
10	T	Methyl Iodide	0.747	0.684	8.4	79	0.00
11	T	Tert butyl alcohol	0.131	0.143	-9.2	103	-0.01
12	CM	1,1-Dichloroethene	0.593	0.550	7.3#	85	0.00
13	T	Acrolein	0.149	0.160	-7.4	97	0.00
14	T	Allyl chloride	1.133	1.169	-3.2	92	0.00
15	T	Acrylonitrile	0.374	0.404	-8.0	97	0.00
16	T	Acetone	0.374	0.393	-5.1	101	0.00
17	T	Carbon Disulfide	1.406	1.170	16.8	74	0.00
18	T	Methyl Acetate	0.867	1.100	-26.9#	120	0.00
19	T	Methyl tert-butyl Ether	2.079	2.197	-5.7	94	0.00
20	T	Methylene Chloride	0.716	0.663	7.4	90	0.00
21	T	trans-1,2-Dichloroethene	0.596	0.560	6.0	85	0.00
22	T	Diisopropyl ether	2.189	2.307	-5.4	94	0.00
23	T	Vinyl Acetate	1.925	2.026	-5.2	92	0.00
24	P	1,1-Dichloroethane	1.219	1.239	-1.6	91	0.00
25	T	2-Butanone	0.543	0.592	-9.0	99	0.00
26	T	2,2-Dichloropropane	0.954	0.995	-4.3	96	0.00
27	T	cis-1,2-Dichloroethene	0.718	0.706	1.7	89	0.00
28	T	Bromochloromethane	0.587	0.602	-2.6	97	0.00
29	T	Tetrahydrofuran	0.340	0.371	-9.1	98	0.00
30	C	Chloroform	1.271	1.286	-1.2#	92	0.00
31	T	Cyclohexane	1.111	1.026	7.7	84	0.00
32	T	1,1,1-Trichloroethane	1.101	1.128	-2.5	92	0.00
33	S	1,2-Dichloroethane-d4	0.932	0.966	-3.6	98	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	92	0.00
35	S	Dibromofluoromethane	0.360	0.384	-6.7	100	0.00
36	T	1,1-Dichloropropene	0.484	0.468	3.3	87	0.00
37	T	Ethyl Acetate	0.598	0.630	-5.4	95	0.00
38	T	Carbon Tetrachloride	0.544	0.551	-1.3	91	0.00
39	T	Methylcyclohexane	0.623	0.597	4.2	86	0.00
40	TM	Benzene	1.417	1.421	-0.3	89	0.00
41	T	Methacrylonitrile	0.313	0.365	-16.6	97	0.00
42	TM	1,2-Dichloroethane	0.612	0.628	-2.6	92	0.00
43	T	Isopropyl Acetate	0.912	1.021	-12.0	98	0.00
44	TM	Trichloroethene	0.341	0.343	-0.6	89	0.00
45	C	1,2-Dichloropropane	0.352	0.374	-6.3#	93	0.00
46	T	Dibromomethane	0.278	0.286	-2.9	92	0.00
47	T	Bromodichloromethane	0.547	0.595	-8.8	95	0.00
48	T	Methyl methacrylate	0.466	0.535	-14.8	98	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046331.D
Acq On : 23 May 2025 09:24
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: May 23 22:55:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.009	0.009	0.0	95	0.00
50	S	Toluene-d8	1.246	1.307	-4.9	99	0.00
51	T	4-Methyl-2-Pentanone	0.605	0.677	-11.9	99	0.00
52	CM	Toluene	0.869	0.878	-1.0#	90	0.00
53	T	t-1,3-Dichloropropene	0.487	0.542	-11.3	95	0.00
54	T	cis-1,3-Dichloropropene	0.538	0.591	-9.9	94	0.00
55	T	1,1,2-Trichloroethane	0.343	0.366	-6.7	95	0.00
56	T	Ethyl methacrylate	0.546	0.629	-15.2	98	0.00
57	T	1,3-Dichloropropane	0.615	0.639	-3.9	95	0.00
58	T	2-Chloroethyl Vinyl ether	0.278	0.299	-7.6	90	0.00
59	T	2-Hexanone	0.448	0.511	-14.1	100	0.00
60	T	Dibromochloromethane	0.376	0.417	-10.9	96	0.00
61	T	1,2-Dibromoethane	0.356	0.377	-5.9	93	0.00
62	S	4-Bromofluorobenzene	0.478	0.514	-7.5	101	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	94	0.00
64	T	Tetrachloroethene	0.354	0.357	-0.8	89	0.00
65	PM	Chlorobenzene	1.094	1.084	0.9	93	0.00
66	T	1,1,1,2-Tetrachloroethane	0.374	0.389	-4.0	93	0.00
67	C	Ethyl Benzene	1.929	1.985	-2.9#	92	0.00
68	T	m/p-Xylenes	0.706	0.719	-1.8	91	0.00
69	T	o-Xylene	0.688	0.714	-3.8	92	0.00
70	T	Styrene	1.127	1.208	-7.2	93	0.00
71	P	Bromoform	0.281	0.310	-10.3	96	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	98	0.00
73	T	Isopropylbenzene	3.893	3.986	-2.4	95	0.00
74	T	N-amyl acetate	1.924	2.081	-8.2	99	0.00
75	P	1,1,2,2-Tetrachloroethane	1.364	1.366	-0.1	100	0.00
76	T	1,2,3-Trichloropropane	1.204	1.228	-2.0	101	0.00
77	T	Bromobenzene	0.904	0.894	1.1	94	0.00
78	T	n-propylbenzene	4.526	4.678	-3.4	94	0.00
79	T	2-Chlorotoluene	2.919	2.868	1.7	94	0.00
80	T	1,3,5-Trimethylbenzene	3.252	3.374	-3.8	95	0.00
81	T	trans-1,4-Dichloro-2-butene	0.370	0.405	-9.5	103	0.00
82	T	4-Chlorotoluene	3.238	3.296	-1.8	94	0.00
83	T	tert-Butylbenzene	3.276	3.334	-1.8	95	0.00
84	T	1,2,4-Trimethylbenzene	3.293	3.388	-2.9	94	0.00
85	T	sec-Butylbenzene	4.022	4.204	-4.5	96	0.00
86	T	p-Isopropyltoluene	3.320	3.484	-4.9	96	0.00
87	T	1,3-Dichlorobenzene	1.649	1.650	-0.1	95	0.00
88	T	1,4-Dichlorobenzene	1.684	1.672	0.7	97	0.00
89	T	n-Butylbenzene	2.912	3.156	-8.4	98	0.00
90	T	Hexachloroethane	0.585	0.621	-6.2	98	0.00
91	T	1,2-Dichlorobenzene	1.655	1.688	-2.0	98	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.302	0.333	-10.3	101	0.00
93	T	1,2,4-Trichlorobenzene	0.951	0.994	-4.5	99	0.00
94	T	Hexachlorobutadiene	0.415	0.445	-7.2	102	0.00
95	T	Naphthalene	3.487	3.635	-4.2	99	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046331.D
Acq On : 23 May 2025 09:24
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: May 23 22:55:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.981	1.006	-2.5	97	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046331.D
Acq On : 23 May 2025 09:24
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: May 23 22:55:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	93	0.00
2	T	Dichlorodifluoromethane	50.000	46.886	6.2	77	0.00
3	P	Chloromethane	50.000	44.072	11.9	78	0.00
4	C	Vinyl Chloride	50.000	42.877	14.2#	77	0.00
5	T	Bromomethane	50.000	45.004	10.0	82	0.00
6	T	Chloroethane	50.000	51.230	-2.5	93	0.00
7	T	Trichlorofluoromethane	50.000	48.653	2.7	86	0.00
8	T	Diethyl Ether	50.000	48.706	2.6	93	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	48.939	2.1	89	0.00
10	T	Methyl Iodide	50.000	45.758	8.5	79	0.00
11	T	Tert butyl alcohol	250.000	274.166	-9.7	103	-0.01
12	CM	1,1-Dichloroethene	50.000	46.384	7.2#	85	0.00
13	T	Acrolein	250.000	268.519	-7.4	97	0.00
14	T	Allyl chloride	50.000	51.568	-3.1	92	0.00
15	T	Acrylonitrile	250.000	270.194	-8.1	97	0.00
16	T	Acetone	250.000	263.114	-5.2	101	0.00
17	T	Carbon Disulfide	50.000	41.606	16.8	74	0.00
18	T	Methyl Acetate	50.000	63.388	-26.8#	120	0.00
19	T	Methyl tert-butyl Ether	50.000	52.851	-5.7	94	0.00
20	T	Methylene Chloride	50.000	46.299	7.4	90	0.00
21	T	trans-1,2-Dichloroethene	50.000	47.000	6.0	85	0.00
22	T	Diisopropyl ether	50.000	52.704	-5.4	94	0.00
23	T	Vinyl Acetate	250.000	263.054	-5.2	92	0.00
24	P	1,1-Dichloroethane	50.000	50.826	-1.7	91	0.00
25	T	2-Butanone	250.000	272.843	-9.1	99	0.00
26	T	2,2-Dichloropropane	50.000	52.155	-4.3	96	0.00
27	T	cis-1,2-Dichloroethene	50.000	49.159	1.7	89	0.00
28	T	Bromochloromethane	50.000	51.292	-2.6	97	0.00
29	T	Tetrahydrofuran	250.000	272.575	-9.0	98	0.00
30	C	Chloroform	50.000	50.618	-1.2#	92	0.00
31	T	Cyclohexane	50.000	46.166	7.7	84	0.00
32	T	1,1,1-Trichloroethane	50.000	51.206	-2.4	92	0.00
33	S	1,2-Dichloroethane-d4	50.000	51.802	-3.6	98	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	92	0.00
35	S	Dibromofluoromethane	50.000	53.265	-6.5	100	0.00
36	T	1,1-Dichloropropene	50.000	48.349	3.3	87	0.00
37	T	Ethyl Acetate	50.000	52.723	-5.4	95	0.00
38	T	Carbon Tetrachloride	50.000	50.709	-1.4	91	0.00
39	T	Methylcyclohexane	50.000	47.954	4.1	86	0.00
40	TM	Benzene	50.000	50.133	-0.3	89	0.00
41	T	Methacrylonitrile	50.000	58.302	-16.6	97	0.00
42	TM	1,2-Dichloroethane	50.000	51.375	-2.8	92	0.00
43	T	Isopropyl Acetate	50.000	55.999	-12.0	98	0.00
44	TM	Trichloroethene	50.000	50.279	-0.6	89	0.00
45	C	1,2-Dichloropropane	50.000	53.136	-6.3#	93	0.00
46	T	Dibromomethane	50.000	51.454	-2.9	92	0.00
47	T	Bromodichloromethane	50.000	54.392	-8.8	95	0.00
48	T	Methyl methacrylate	50.000	57.467	-14.9	98	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046331.D
Acq On : 23 May 2025 09:24
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: May 23 22:55:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	1053.147	-5.3	95	0.00
50	S	Toluene-d8	50.000	52.423	-4.8	99	0.00
51	T	4-Methyl-2-Pentanone	250.000	279.753	-11.9	99	0.00
52	CM	Toluene	50.000	50.537	-1.1#	90	0.00
53	T	t-1,3-Dichloropropene	50.000	55.750	-11.5	95	0.00
54	T	cis-1,3-Dichloropropene	50.000	54.982	-10.0	94	0.00
55	T	1,1,2-Trichloroethane	50.000	53.371	-6.7	95	0.00
56	T	Ethyl methacrylate	50.000	57.619	-15.2	98	0.00
57	T	1,3-Dichloropropane	50.000	51.895	-3.8	95	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	268.416	-7.4	90	0.00
59	T	2-Hexanone	250.000	285.172	-14.1	100	0.00
60	T	Dibromochloromethane	50.000	55.399	-10.8	96	0.00
61	T	1,2-Dibromoethane	50.000	52.931	-5.9	93	0.00
62	S	4-Bromofluorobenzene	50.000	53.716	-7.4	101	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	94	0.00
64	T	Tetrachloroethene	50.000	50.481	-1.0	89	0.00
65	PM	Chlorobenzene	50.000	49.525	1.0	93	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	52.010	-4.0	93	0.00
67	C	Ethyl Benzene	50.000	51.457	-2.9#	92	0.00
68	T	m/p-Xylenes	100.000	101.954	-2.0	91	0.00
69	T	o-Xylene	50.000	51.899	-3.8	92	0.00
70	T	Styrene	50.000	53.599	-7.2	93	0.00
71	P	Bromoform	50.000	55.224	-10.4	96	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	98	0.00
73	T	Isopropylbenzene	50.000	51.196	-2.4	95	0.00
74	T	N-amyl acetate	50.000	54.091	-8.2	99	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	50.066	-0.1	100	0.00
76	T	1,2,3-Trichloropropane	50.000	51.027	-2.1	101	0.00
77	T	Bromobenzene	50.000	49.441	1.1	94	0.00
78	T	n-propylbenzene	50.000	51.673	-3.3	94	0.00
79	T	2-Chlorotoluene	50.000	49.128	1.7	94	0.00
80	T	1,3,5-Trimethylbenzene	50.000	51.877	-3.8	95	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	54.814	-9.6	103	0.00
82	T	4-Chlorotoluene	50.000	50.910	-1.8	94	0.00
83	T	tert-Butylbenzene	50.000	50.888	-1.8	95	0.00
84	T	1,2,4-Trimethylbenzene	50.000	51.438	-2.9	94	0.00
85	T	sec-Butylbenzene	50.000	52.265	-4.5	96	0.00
86	T	p-Isopropyltoluene	50.000	52.479	-5.0	96	0.00
87	T	1,3-Dichlorobenzene	50.000	50.025	-0.0	95	0.00
88	T	1,4-Dichlorobenzene	50.000	49.641	0.7	97	0.00
89	T	n-Butylbenzene	50.000	54.179	-8.4	98	0.00
90	T	Hexachloroethane	50.000	53.122	-6.2	98	0.00
91	T	1,2-Dichlorobenzene	50.000	51.002	-2.0	98	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	55.085	-10.2	101	0.00
93	T	1,2,4-Trichlorobenzene	50.000	52.307	-4.6	99	0.00
94	T	Hexachlorobutadiene	50.000	53.637	-7.3	102	0.00
95	T	Naphthalene	50.000	52.127	-4.3	99	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046331.D
Acq On : 23 May 2025 09:24
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: May 23 22:55:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	51.275	-2.5	97	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2118 SAS No.: Q2118 SDG No.: Q2118

Instrument ID: MSVOA_X Calibration Date/Time: 05/23/2025 19:55

Lab File ID: VX046357.D Init. Calib. Date(s): 05/05/2025 05/05/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:35 16:27

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Chloromethane	0.742	0.828	0.1	11.59	50
Vinyl Chloride	0.691	0.742		7.38	50
Bromomethane	0.320	0.337		5.31	50
Chloroethane	0.369	0.428		15.99	50
Trichlorofluoromethane	1.021	1.173		14.89	50
1,1,2-Trichlorotrifluoroethane	0.632	0.715		13.13	50
1,1-Dichloroethene	0.593	0.657		10.79	50
Acetone	0.374	0.428		14.44	50
Carbon Disulfide	1.406	1.429		1.64	50
Methyl tert-butyl Ether	2.079	2.383		14.62	50
Methylene Chloride	0.716	0.774		8.1	50
trans-1,2-Dichloroethene	0.596	0.665		11.58	50
1,1-Dichloroethane	1.219	1.413	0.1	15.91	50
2-Butanone	0.543	0.643		18.42	50
Carbon Tetrachloride	0.544	0.614		12.87	50
cis-1,2-Dichloroethene	0.718	0.826		15.04	50
Chloroform	1.271	1.489		17.15	50
1,1,1-Trichloroethane	1.101	1.253		13.81	50
Methylcyclohexane	0.623	0.674		8.19	50
Benzene	1.417	1.650		16.44	50
1,2-Dichloroethane	0.612	0.717		17.16	50
Trichloroethene	0.341	0.379		11.14	50
1,2-Dichloropropane	0.352	0.422		19.89	50
Bromodichloromethane	0.547	0.652		19.2	50
4-Methyl-2-Pentanone	0.605	0.739		22.15	50
Toluene	0.869	1.003		15.42	50
t-1,3-Dichloropropene	0.487	0.559		14.78	50
cis-1,3-Dichloropropene	0.538	0.614		14.13	50
1,1,2-Trichloroethane	0.343	0.411		19.83	50
2-Hexanone	0.448	0.551		22.99	50
Dibromochloromethane	0.376	0.451		19.95	50
Tetrachloroethene	0.354	0.391		10.45	50
Chlorobenzene	1.094	1.215	0.3	11.06	50
Ethyl Benzene	1.929	2.216		14.88	50
m/p-Xylenes	0.706	0.808		14.45	50
o-Xylene	0.688	0.787		14.39	50
Styrene	1.127	1.347		19.52	50
Bromoform	0.281	0.310	0.1	10.32	50

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2118 SAS No.: Q2118 SDG No.: Q2118

Instrument ID: MSVOA_X Calibration Date/Time: 05/23/2025 19:55

Lab File ID: VX046357.D Init. Calib. Date(s): 05/05/2025 05/05/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:35 16:27

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Isopropylbenzene	3.893	4.443		14.13	50
1,1,2,2-Tetrachloroethane	1.364	1.471	0.3	7.84	50
1,3-Dichlorobenzene	1.649	1.817		10.19	50
1,4-Dichlorobenzene	1.684	1.802		7.01	50
1,2-Dichlorobenzene	1.655	1.854		12.02	50
1,2-Dichloroethane-d4	0.932	0.992		6.44	50
Dibromofluoromethane	0.360	0.392		8.89	50
Toluene-d8	1.246	1.306		4.82	50
4-Bromofluorobenzene	0.478	0.512		7.11	50

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046357.D
Acq On : 23 May 2025 19:55
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Quant Time: May 23 23:08:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	76901	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	133895	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	119793	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	57270	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	76303	53.222	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 106.440%			
35) Dibromofluoromethane	5.379	113	52529	54.480	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 108.960%			
50) Toluene-d8	8.647	98	174887	52.406	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 104.820%			
62) 4-Bromofluorobenzene	11.079	95	68500	53.512	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 107.020%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	65162	55.362	ug/l	99
3) Chloromethane	1.301	50	63674	55.785	ug/l	97
4) Vinyl Chloride	1.374	62	57094	53.745	ug/l	96
5) Bromomethane	1.599	94	25945	52.657	ug/l	96
6) Chloroethane	1.672	64	32902	58.018	ug/l	96
7) Trichlorofluoromethane	1.880	101	90174	57.436	ug/l	99
8) Diethyl Ether	2.136	74	28974	54.212	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.319	101	55002	56.611	ug/l	99
10) Methyl Iodide	2.447	142	65612	57.072	ug/l	99
11) Tert butyl alcohol	2.971	59	55085	273.720	ug/l	100
12) 1,1-Dichloroethene	2.313	96	50511	55.394	ug/l	98
13) Acrolein	2.233	56	70211	306.348	ug/l	98
14) Allyl chloride	2.660	41	100827	57.856	ug/l	98
15) Acrylonitrile	3.062	53	173054	300.729	ug/l	99
16) Acetone	2.380	43	164548	286.251	ug/l	100
17) Carbon Disulfide	2.508	76	109883	50.829	ug/l	99
18) Methyl Acetate	2.703	43	90704	67.998	ug/l	99
19) Methyl tert-butyl Ether	3.111	73	183289	57.333	ug/l	100
20) Methylene Chloride	2.782	84	59518	54.030	ug/l	97
21) trans-1,2-Dichloroethene	3.087	96	51128	55.755	ug/l	98
22) Diisopropyl ether	3.764	45	200763	59.639	ug/l	91
23) Vinyl Acetate	3.721	43	863186	291.539	ug/l	100
24) 1,1-Dichloroethane	3.605	63	108698	57.974	ug/l	98
25) 2-Butanone	4.556	43	247090	296.078	ug/l	100
26) 2,2-Dichloropropane	4.465	77	70613	48.116	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	63500	57.522	ug/l	100
28) Bromochloromethane	4.891	49	52129	57.760	ug/l	95
29) Tetrahydrofuran	5.001	42	154512	295.465	ug/l	99
30) Chloroform	5.086	83	114469	58.573	ug/l	95
31) Cyclohexane	5.464	56	95051	55.632	ug/l	99
32) 1,1,1-Trichloroethane	5.379	97	96340	56.869	ug/l	99
36) 1,1-Dichloropropene	5.684	75	72138	55.684	ug/l	99
37) Ethyl Acetate	4.715	43	92364	57.707	ug/l	98
38) Carbon Tetrachloride	5.672	117	82234	56.496	ug/l	99
39) Methylcyclohexane	7.373	83	90301	54.143	ug/l	97
40) Benzene	6.031	78	220905	58.216	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046357.D
Acq On : 23 May 2025 19:55
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Quant Time: May 23 23:08:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.916	41	54334	64.894	ug/l		100
42) 1,2-Dichloroethane	6.080	62	95945	58.585	ug/l		99
43) Isopropyl Acetate	6.336	43	144296	59.095	ug/l		99
44) Trichloroethene	7.123	130	50758	55.577	ug/l		95
45) 1,2-Dichloropropane	7.427	63	56489	59.869	ug/l		100
46) Dibromomethane	7.580	93	43094	57.908	ug/l		99
47) Bromodichloromethane	7.818	83	87255	59.530	ug/l		100
48) Methyl methacrylate	7.690	41	76552	61.388	ug/l		99
49) 1,4-Dioxane	7.659	88	27383	1156.492	ug/l		97
51) 4-Methyl-2-Pentanone	8.574	43	494800	305.280	ug/l		99
52) Toluene	8.714	92	134352	57.742	ug/l		99
53) t-1,3-Dichloropropene	8.976	75	74835	57.441	ug/l		97
54) cis-1,3-Dichloropropene	8.360	75	82245	57.117	ug/l		99
55) 1,1,2-Trichloroethane	9.147	97	55081	60.037	ug/l		98
56) Ethyl methacrylate	9.116	69	89269	61.050	ug/l		99
57) 1,3-Dichloropropane	9.305	76	95448	57.929	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.238	63	216543	290.480	ug/l		99
59) 2-Hexanone	9.427	43	368660	307.441	ug/l		99
60) Dibromochloromethane	9.519	129	60337	59.883	ug/l		99
61) 1,2-Dibromoethane	9.604	107	54964	57.641	ug/l		98
64) Tetrachloroethene	9.269	164	46807	55.224	ug/l		97
65) Chlorobenzene	10.073	112	145604	55.532	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.159	131	50957	56.915	ug/l		99
67) Ethyl Benzene	10.189	91	265477	57.440	ug/l		99
68) m/p-Xylenes	10.299	106	193557	114.503	ug/l		98
69) o-Xylene	10.640	106	94322	57.235	ug/l		97
70) Styrene	10.653	104	161327	59.760	ug/l		99
71) Bromoform	10.799	173	37155	55.274	ug/l	#	96
73) Isopropylbenzene	10.957	105	254450	57.069	ug/l		99
74) N-amyl acetate	10.841	43	127633	57.930	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.207	83	84242	53.916	ug/l		98
76) 1,2,3-Trichloropropane	11.238	75	76090m	55.197	ug/l		
77) Bromobenzene	11.195	156	57480	55.529	ug/l		99
78) n-propylbenzene	11.299	91	298001	57.482	ug/l		99
79) 2-Chlorotoluene	11.360	91	183213	54.791	ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	214369	57.551	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	22130	52.265	ug/l		98
82) 4-Chlorotoluene	11.451	91	209928	56.611	ug/l		99
83) tert-Butylbenzene	11.713	119	210698	56.156	ug/l		100
84) 1,2,4-Trimethylbenzene	11.750	105	215135	57.033	ug/l		100
85) sec-Butylbenzene	11.890	105	263013	57.092	ug/l		100
86) p-Isopropyltoluene	12.006	119	218175	57.375	ug/l		100
87) 1,3-Dichlorobenzene	11.969	146	104059	55.082	ug/l		99
88) 1,4-Dichlorobenzene	12.036	146	103178	53.479	ug/l		98
89) n-Butylbenzene	12.329	91	193146	57.905	ug/l		99
90) Hexachloroethane	12.536	117	36765	54.879	ug/l		99
91) 1,2-Dichlorobenzene	12.335	146	106177	56.008	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	19820	57.261	ug/l		97
93) 1,2,4-Trichlorobenzene	13.585	180	58756	53.962	ug/l		99
94) Hexachlorobutadiene	13.719	225	25883	54.428	ug/l		98
95) Naphthalene	13.774	128	217170	54.381	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	61179	54.454	ug/l		98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046357.D
Acq On : 23 May 2025 19:55
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Quant Time: May 23 23:08:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046357.D
Acq On : 23 May 2025 19:55
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Quant Time: May 23 23:08:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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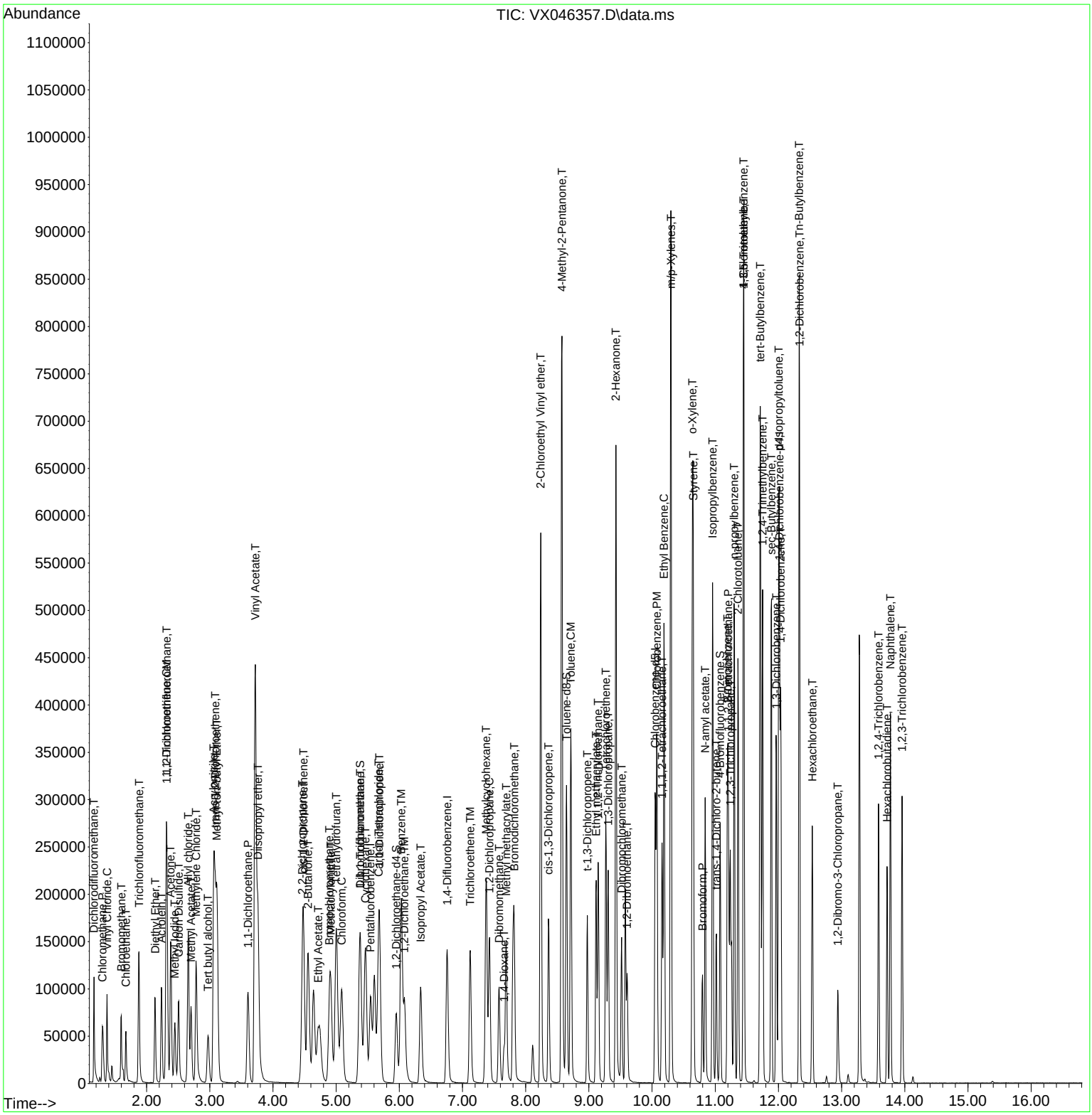
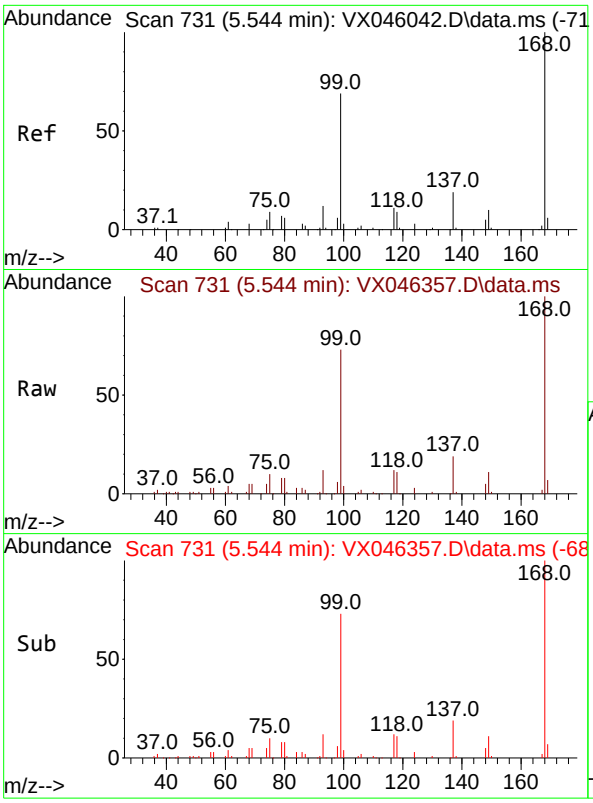
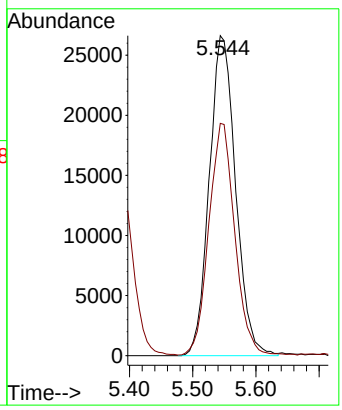




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion:168 Resp: 7690

Ion	Ratio	Lower	Upper
168	100		
99	72.4	54.9	82.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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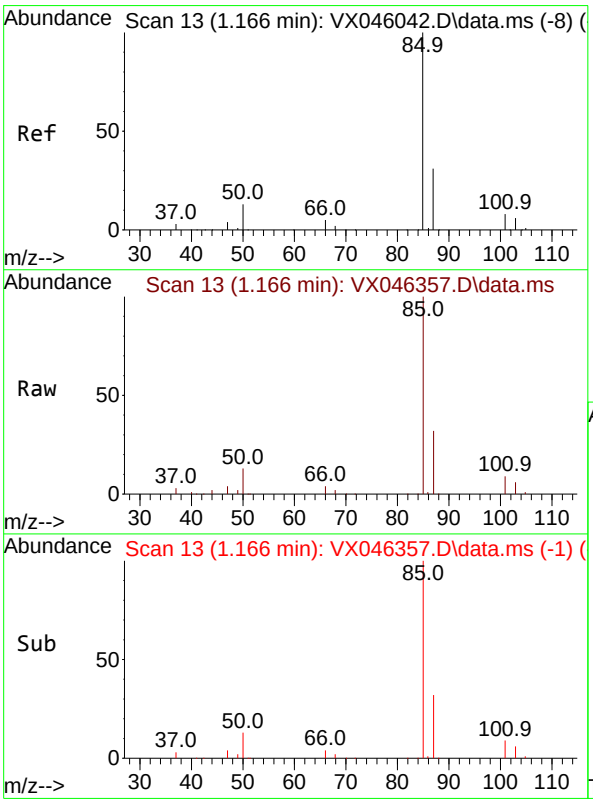
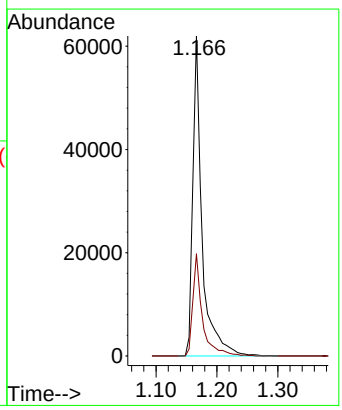
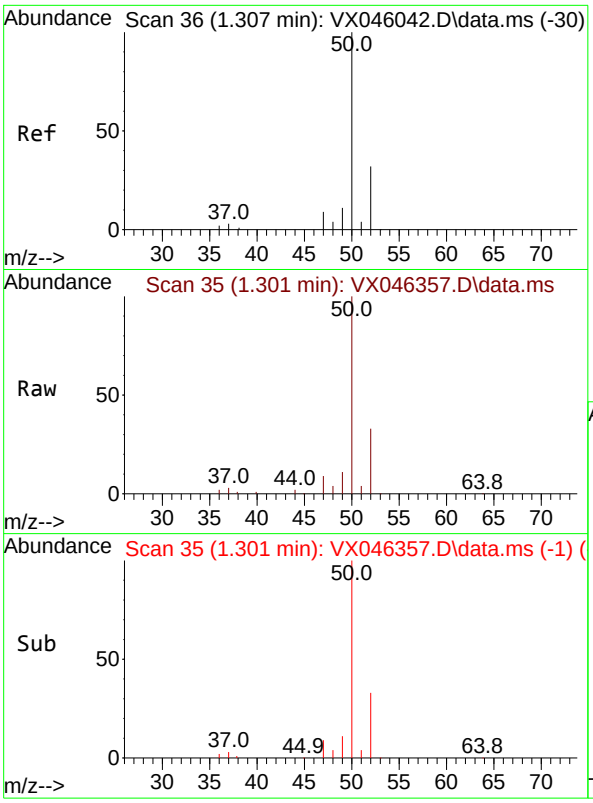


#2
Dichlorodifluoromethane
Concen: 55.362 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 85 Resp: 65162

Ion	Ratio	Lower	Upper
85	100		
87	32.0	15.7	47.1





#3
Chloromethane
Concen: 55.785 ug/l
RT: 1.301 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 50 Resp: 6367

Ion	Ratio	Lower	Upper
50	100		
52	33.5	25.4	38.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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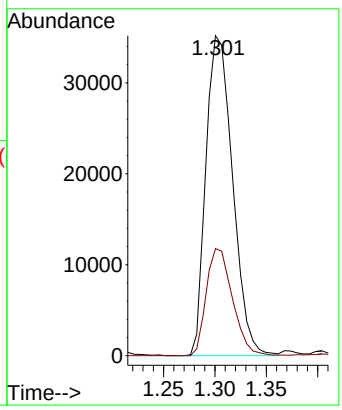
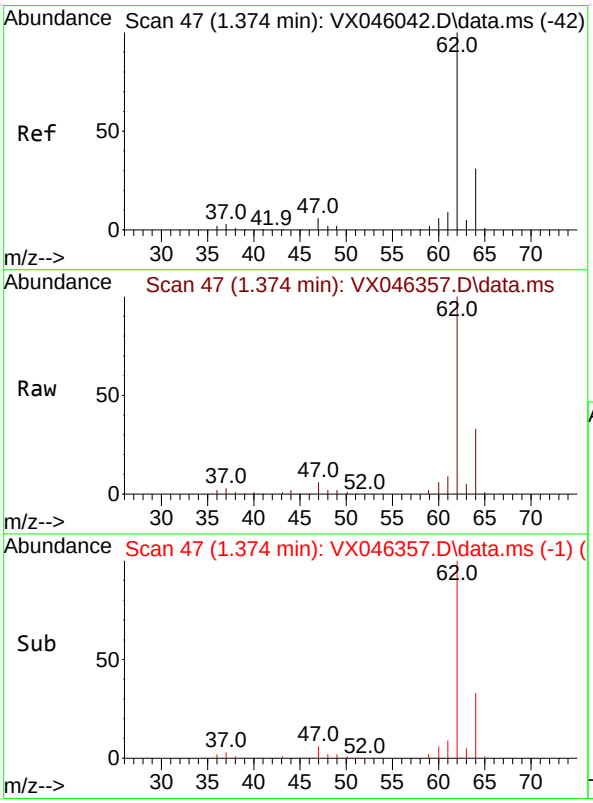
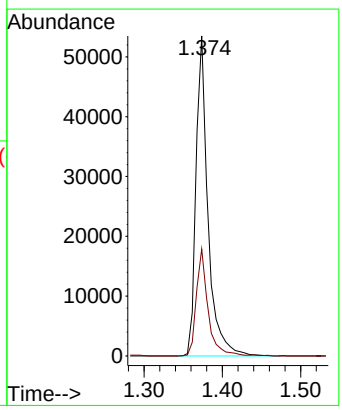


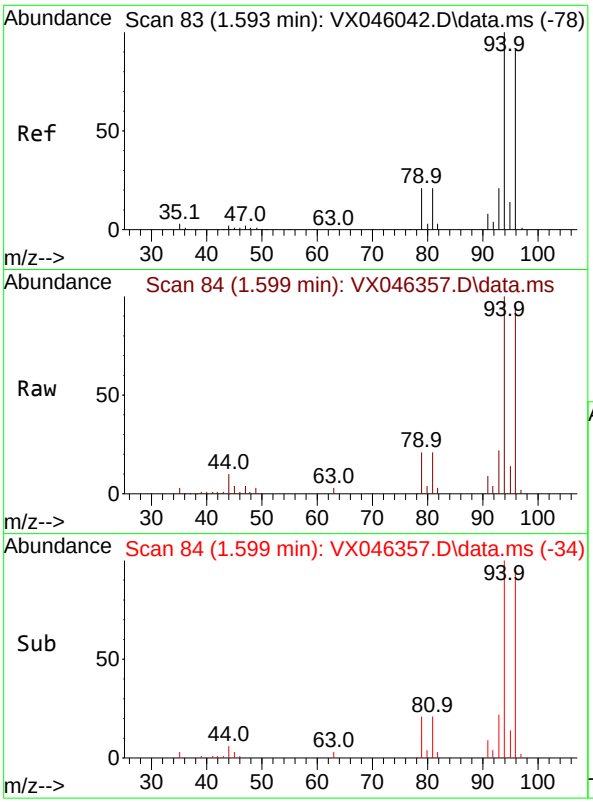


#4
Vinyl Chloride
Concen: 53.745 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 62 Resp: 57094

Ion	Ratio	Lower	Upper
62	100		
64	33.5	25.2	37.8





#5
Bromomethane
Concen: 52.657 ug/l
RT: 1.599 min Scan# 84
Delta R.T. 0.006 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 94 Resp: 2594

Ion	Ratio	Lower	Upper
94	100		
96	95.2	72.8	109.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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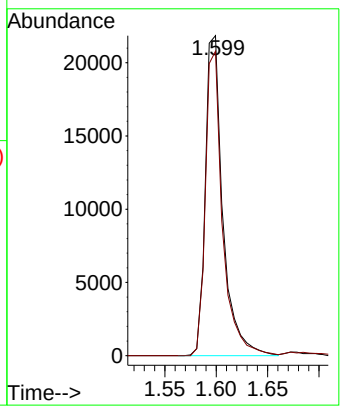
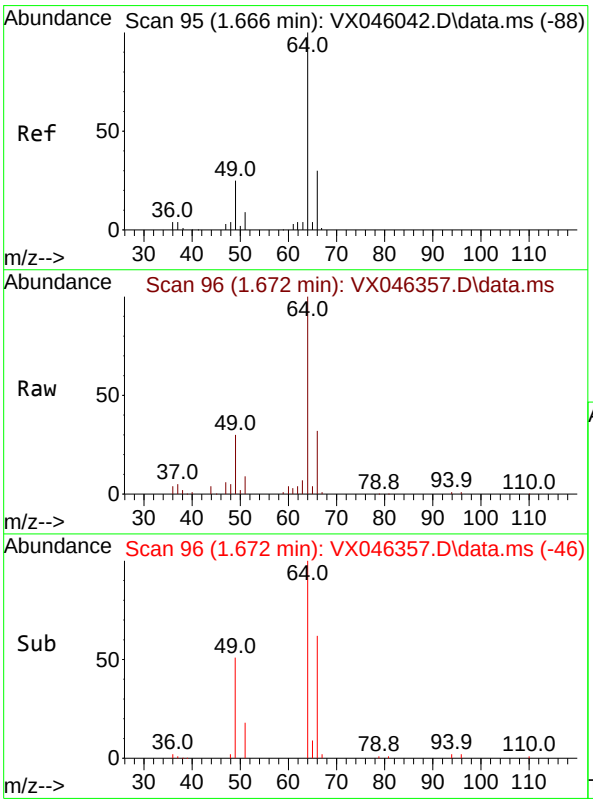
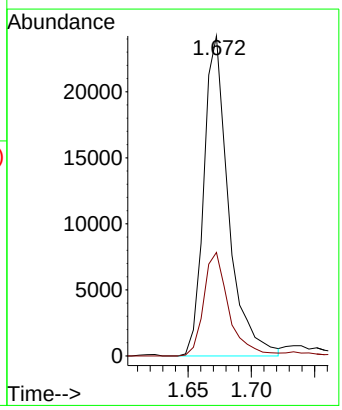


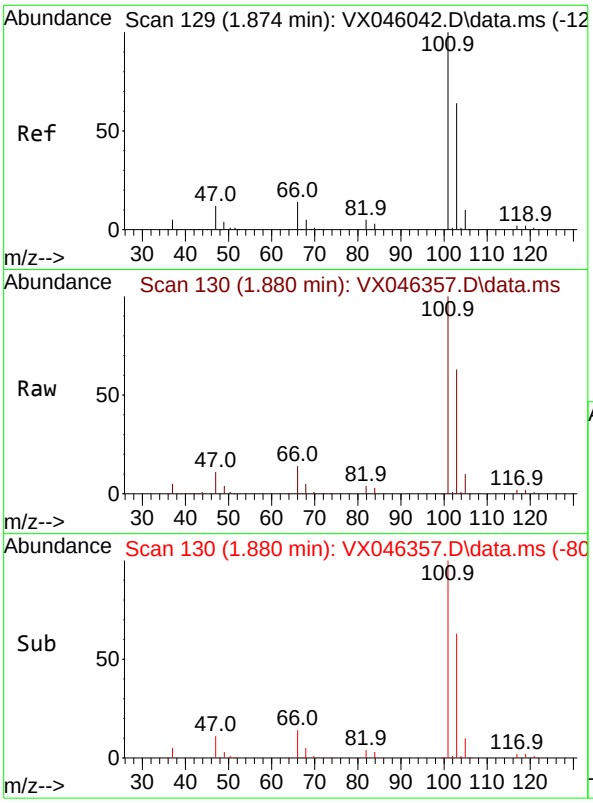


#6
Chloroethane
Concen: 58.018 ug/l
RT: 1.672 min Scan# 96
Delta R.T. 0.006 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 64 Resp: 32902

Ion	Ratio	Lower	Upper
64	100		
66	32.3	24.3	36.5

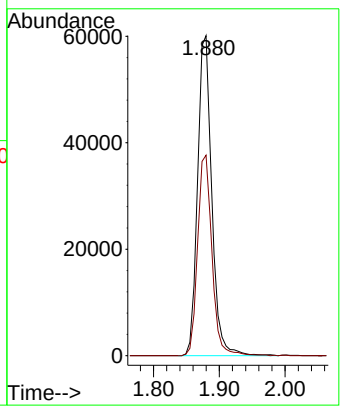




#7
Trichlorofluoromethane
Concen: 57.436 ug/l
RT: 1.880 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion:101 Resp: 9017

Ion	Ratio	Lower	Upper
101	100		
103	62.7	51.0	76.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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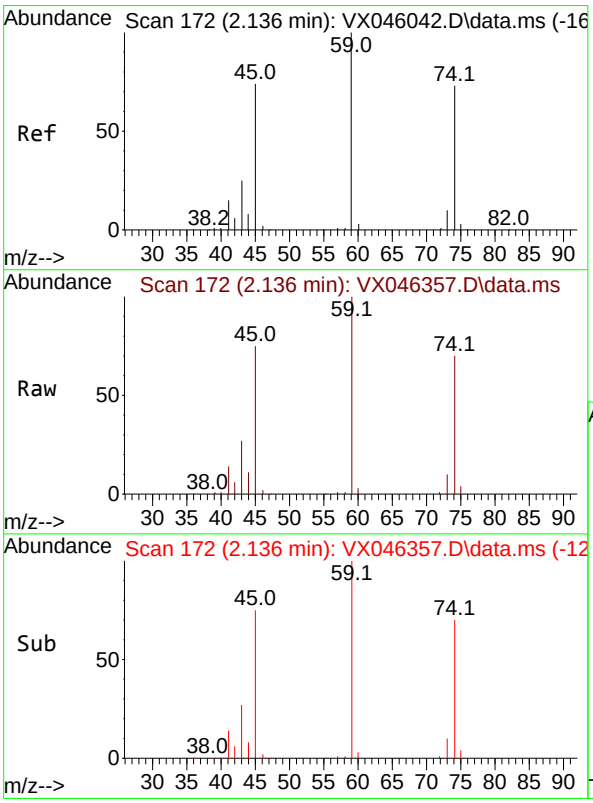
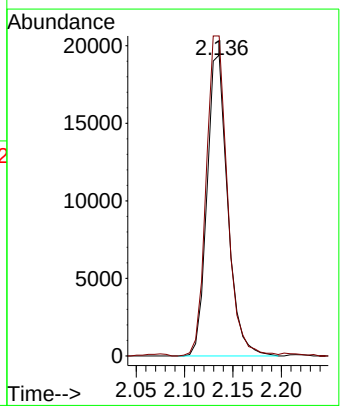
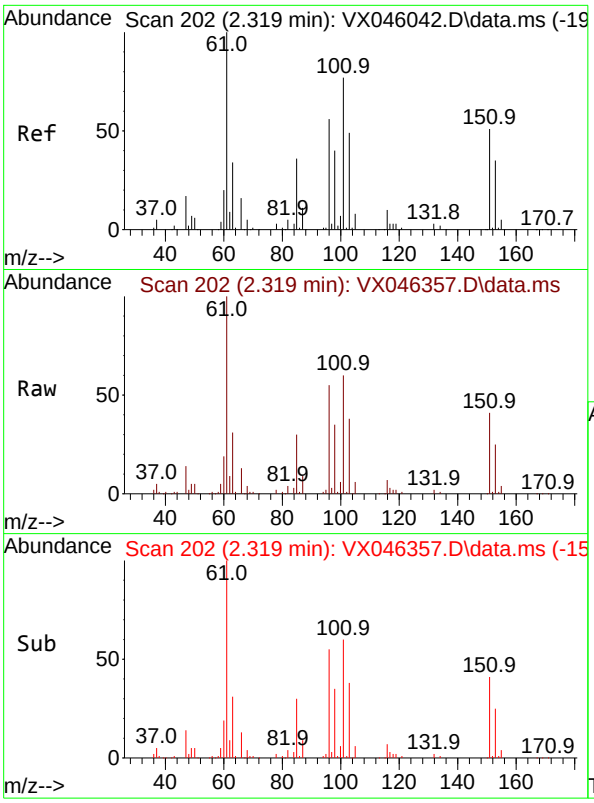


#8
Diethyl Ether
Concen: 54.212 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 74 Resp: 28974

Ion	Ratio	Lower	Upper
74	100		
45	109.1	54.9	164.8

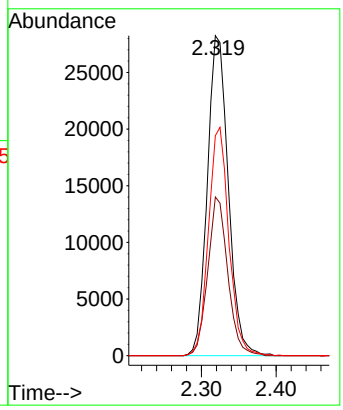




#9
1,1,2-Trichlorotrifluoroethane
Concen: 56.611 ug/l
RT: 2.319 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion:101 Resp: 5500

Ion	Ratio	Lower	Upper
101	100		
85	47.4	38.6	58.0
151	69.5	55.2	82.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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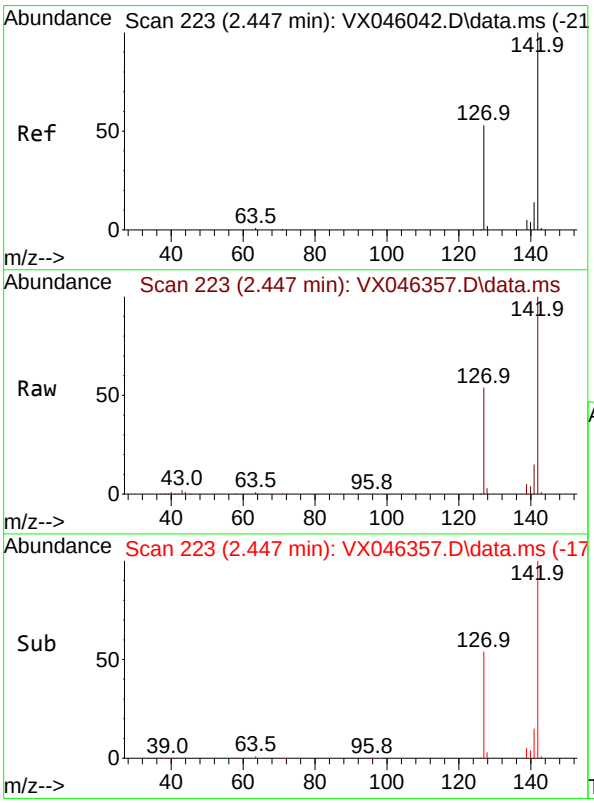
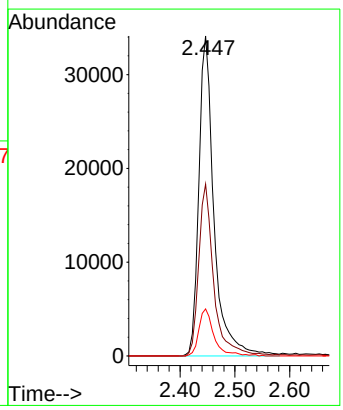
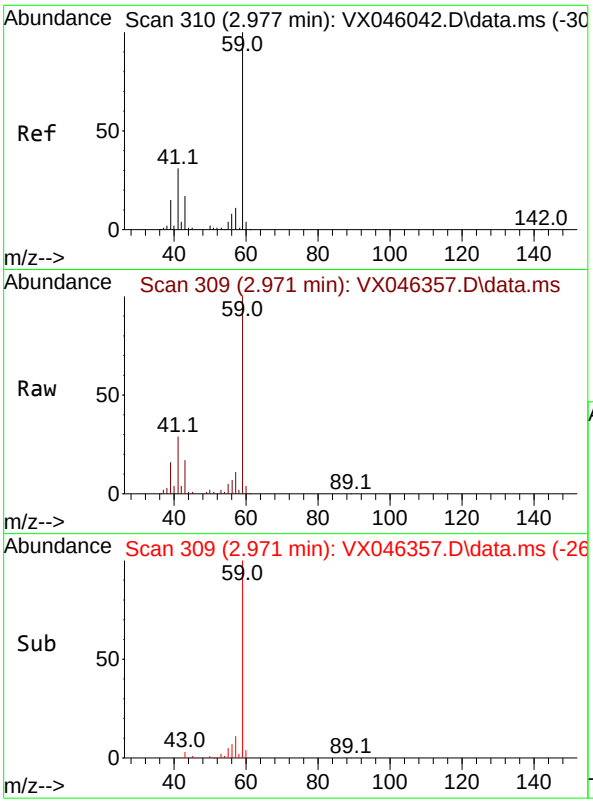


#10
Methyl Iodide
Concen: 57.072 ug/l
RT: 2.447 min Scan# 223
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion:142 Resp: 65612

Ion	Ratio	Lower	Upper
142	100		
127	53.1	41.7	62.5
141	14.8	11.5	17.3

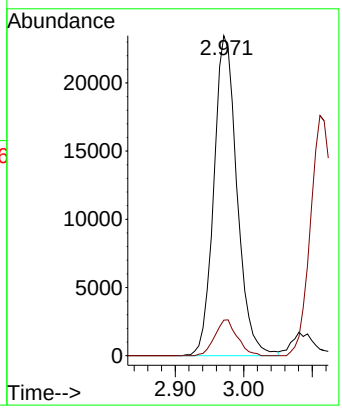




#11
Tert butyl alcohol
Concen: 273.720 ug/l
RT: 2.971 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 59 Resp: 5508

Ion	Ratio	Lower	Upper
59	100		
57	10.8	8.6	12.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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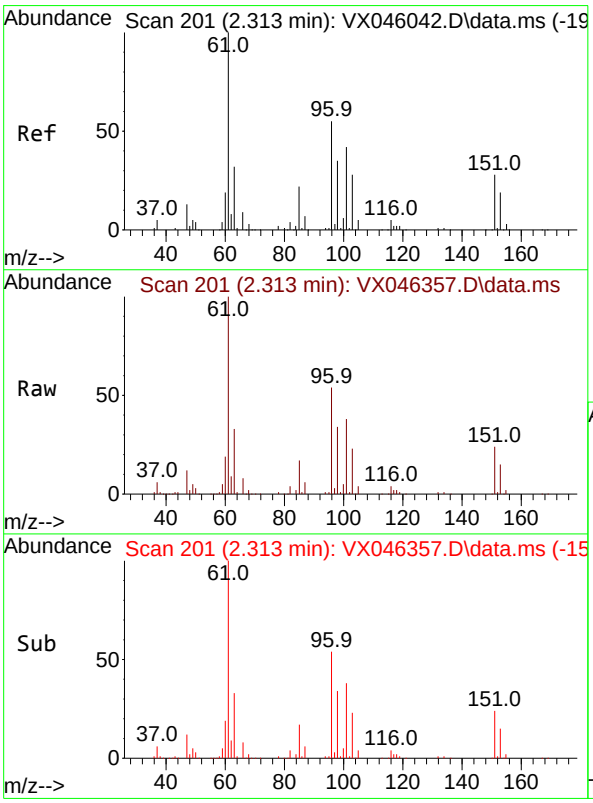
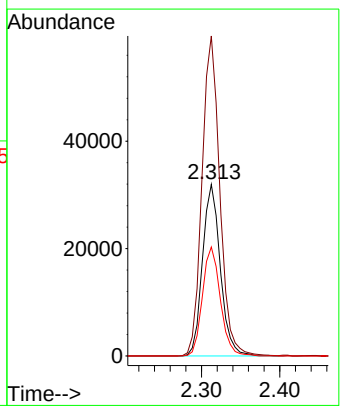
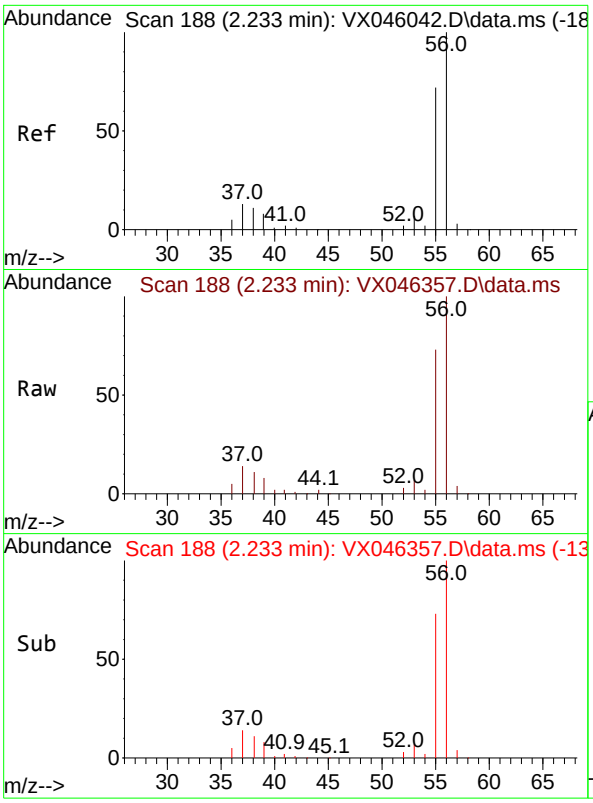


#12
1,1-Dichloroethene
Concen: 55.394 ug/l
RT: 2.313 min Scan# 201
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 96 Resp: 50511

Ion	Ratio	Lower	Upper
96	100		
61	186.5	146.2	219.2
98	63.5	51.0	76.6





#13
Acrolein
Concen: 306.348 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 56 Resp: 7021

Ion	Ratio	Lower	Upper
56	100		
55	72.2	56.2	84.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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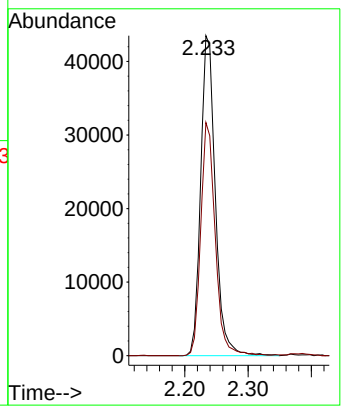
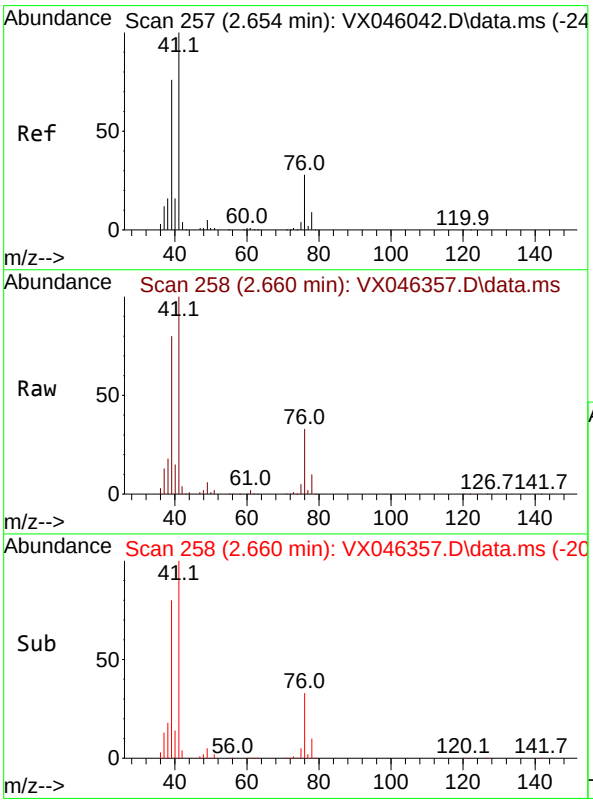
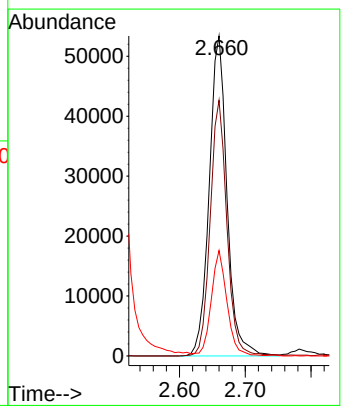


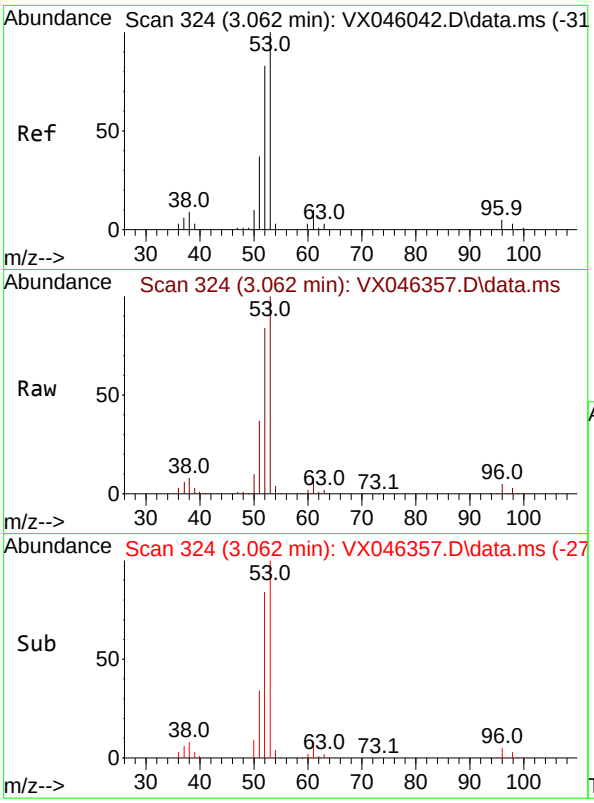


#14
Allyl chloride
Concen: 57.856 ug/l
RT: 2.660 min Scan# 258
Delta R.T. 0.006 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 41 Resp: 100827

Ion	Ratio	Lower	Upper
41	100		
39	74.8	60.6	90.8
76	28.7	24.9	37.3

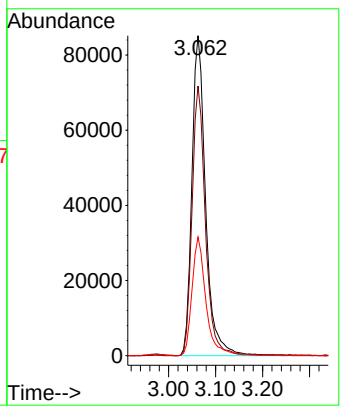




#15
Acrylonitrile
Concen: 300.729 ug/l
RT: 3.062 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 53 Resp: 17305

Ion	Ratio	Lower	Upper
53	100		
52	82.3	65.3	97.9
51	37.7	29.8	44.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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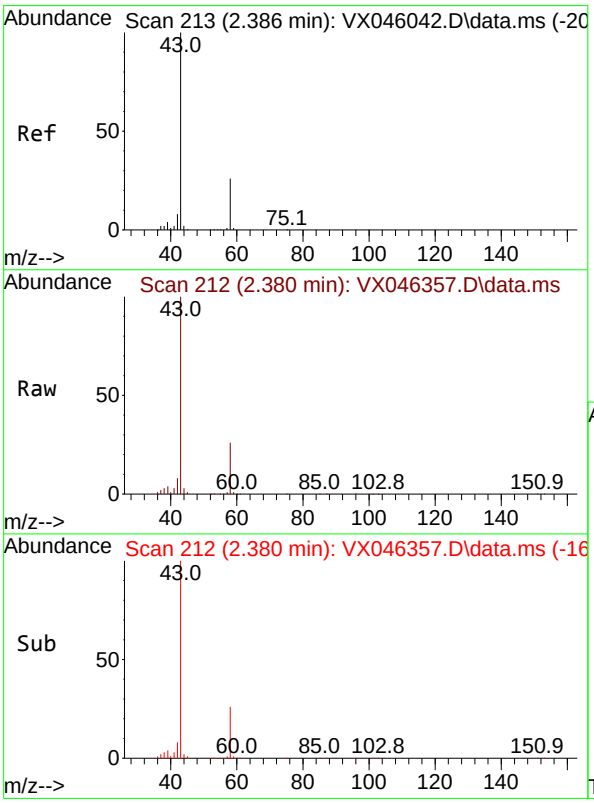
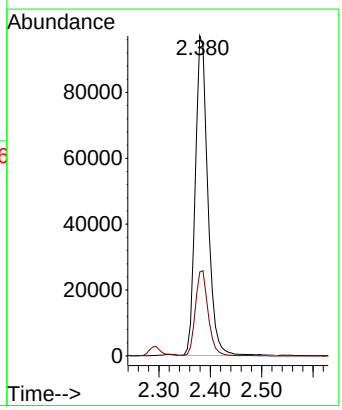
Supervised By :Mahesh Dadoda 05/26/2025

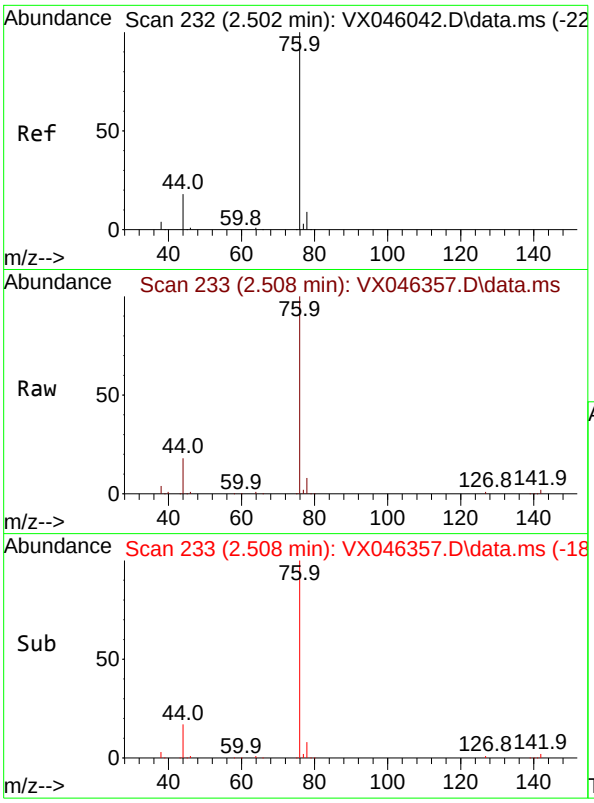


#16
Acetone
Concen: 286.251 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 43 Resp: 164548

Ion	Ratio	Lower	Upper
43	100		
58	26.3	21.2	31.8

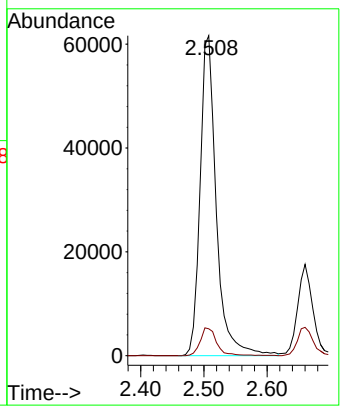




#17
Carbon Disulfide
Concen: 50.829 ug/l
RT: 2.508 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 76 Resp: 10988

Ion	Ratio	Lower	Upper
76	100		
78	8.4	7.0	10.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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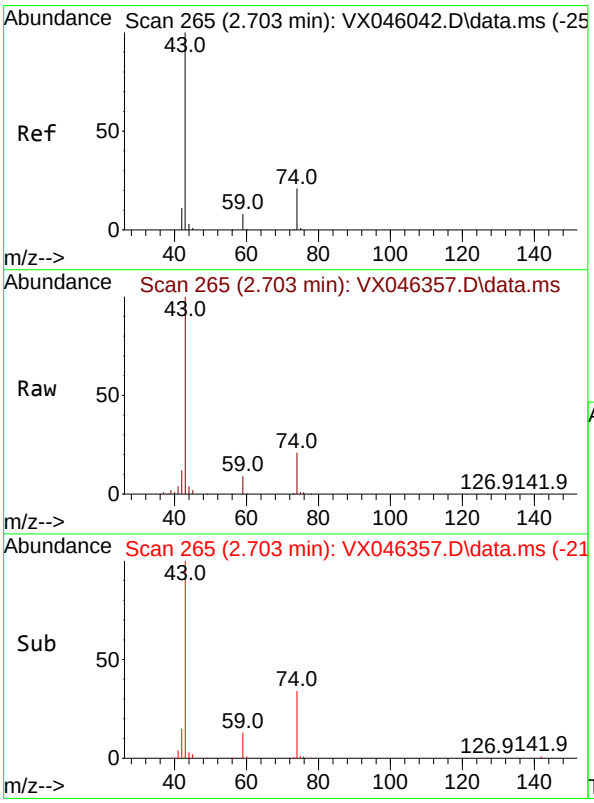
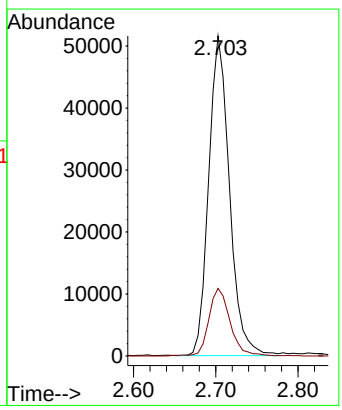
Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025

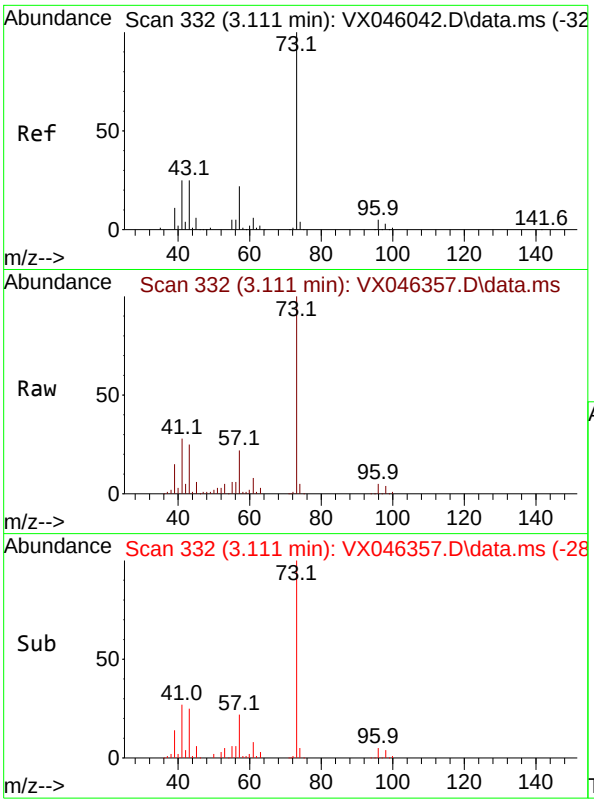


#18
Methyl Acetate
Concen: 67.998 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 43 Resp: 90704

Ion	Ratio	Lower	Upper
43	100		
74	21.6	16.7	25.1





#19
Methyl tert-butyl Ether
Concen: 57.333 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 73 Resp: 18328

Ion	Ratio	Lower	Upper
73	100		
57	22.3	17.7	26.5

Instrument :
MSVOA_X
ClientSampleId :
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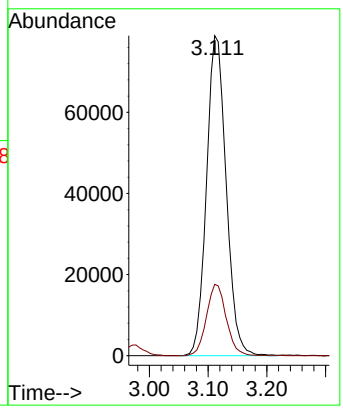
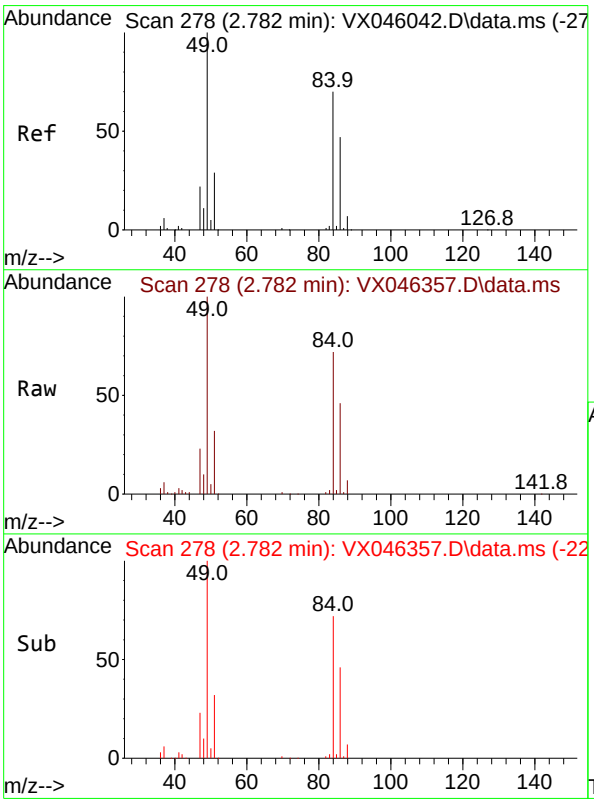
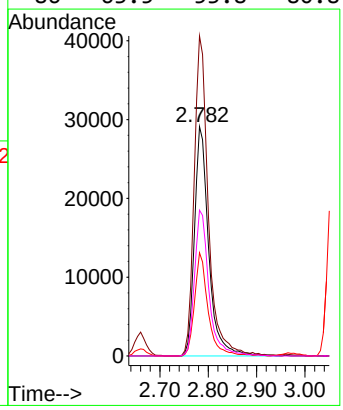


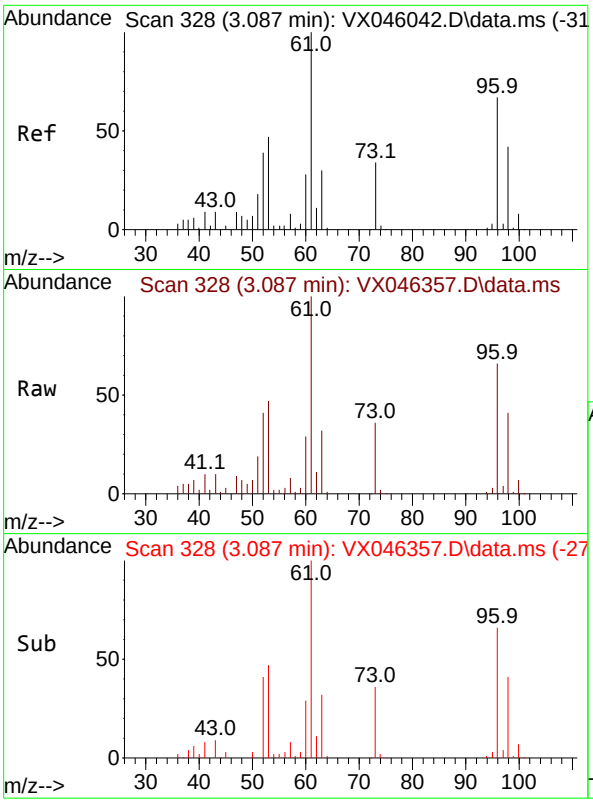


#20
Methylene Chloride
Concen: 54.030 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 84 Resp: 59518

Ion	Ratio	Lower	Upper
84	100		
49	139.5	113.9	170.9
51	45.0	33.5	50.3
86	63.5	53.8	80.8

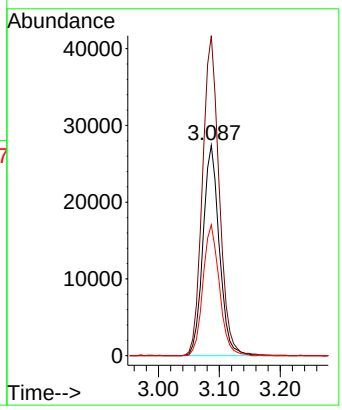




#21
trans-1,2-Dichloroethene
Concen: 55.755 ug/l
RT: 3.087 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 96 Resp: 5112

Ion	Ratio	Lower	Upper
96	100		
61	152.0	119.5	179.3
98	62.2	50.0	75.0



Instrument :
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ClientSampleId :
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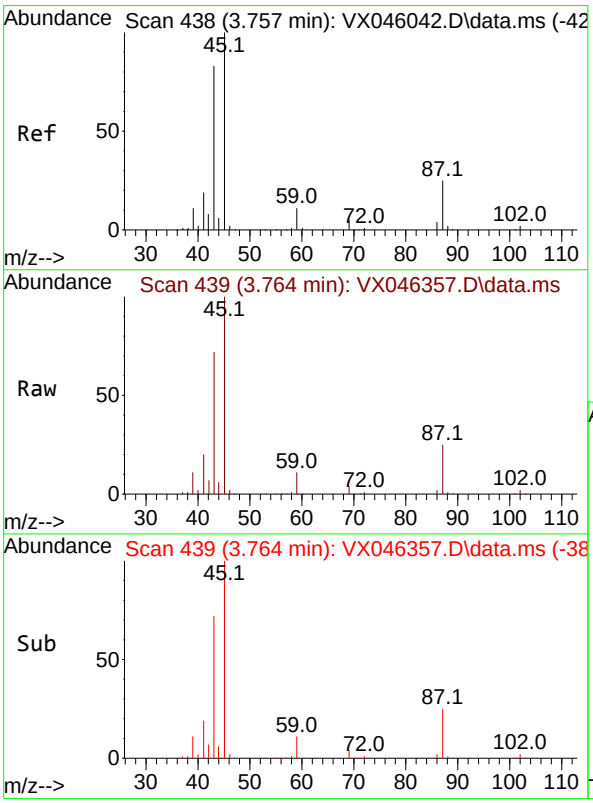
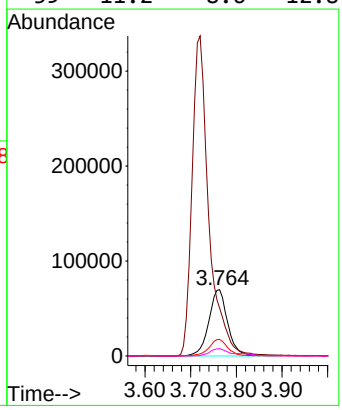
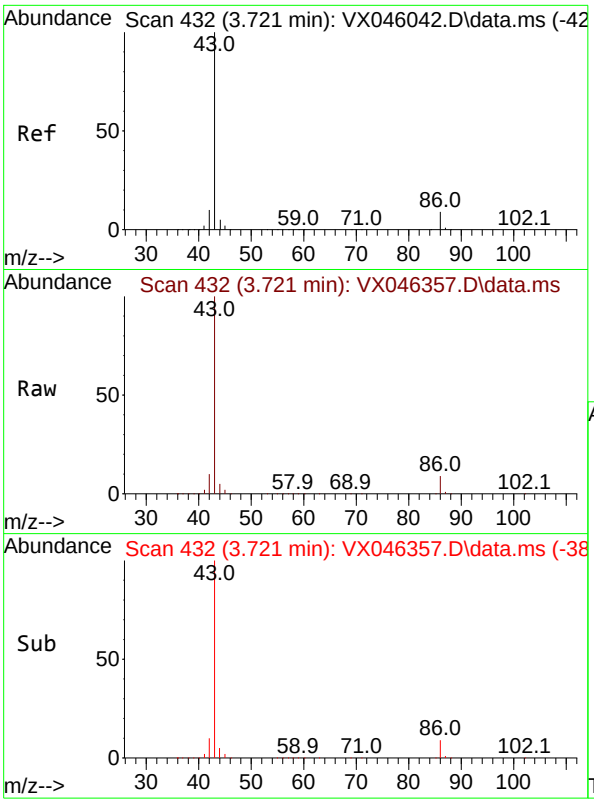


#22
Diisopropyl ether
Concen: 59.639 ug/l
RT: 3.764 min Scan# 439
Delta R.T. 0.006 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 45 Resp: 200763

Ion	Ratio	Lower	Upper
45	100		
43	71.6	66.6	100.0
87	24.8	19.8	29.6
59	11.2	8.6	12.8





#23
Vinyl Acetate
Concen: 291.539 ug/l
RT: 3.721 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 43 Resp: 86318

Ion	Ratio	Lower	Upper
43	100		
86	9.2	7.5	11.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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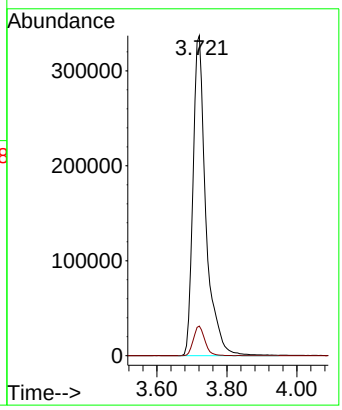
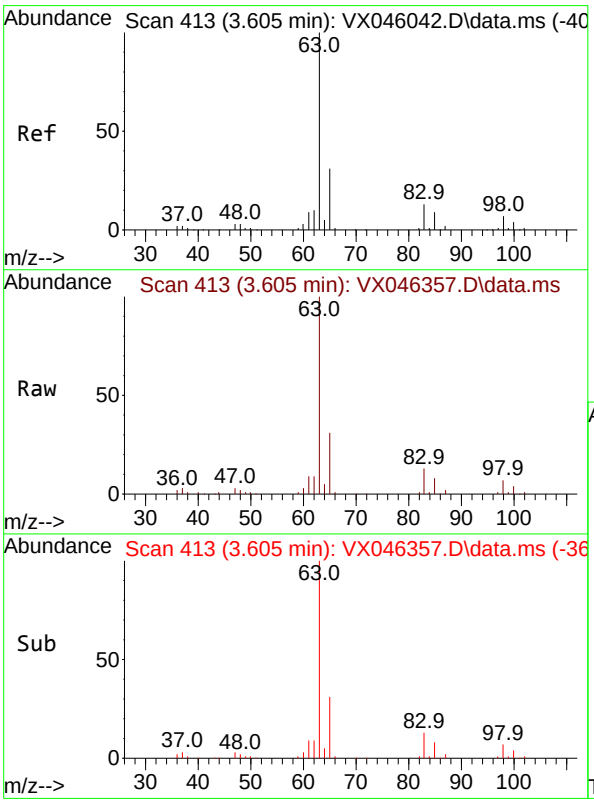
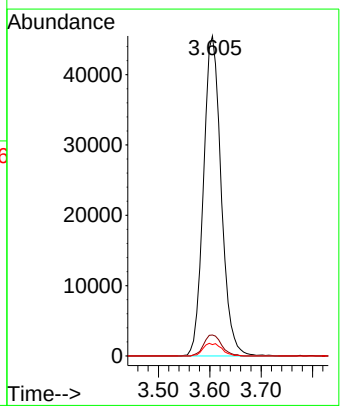


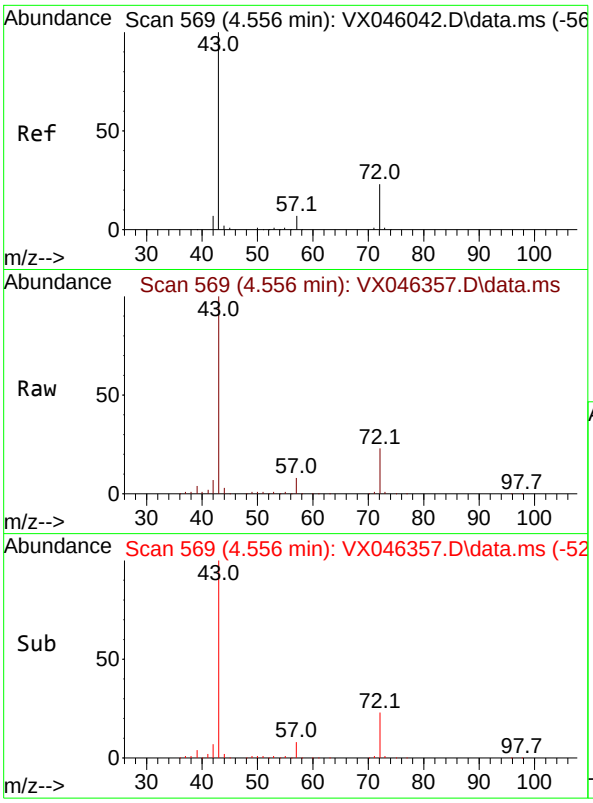


#24
1,1-Dichloroethane
Concen: 57.974 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 63 Resp: 108698

Ion	Ratio	Lower	Upper
63	100		
98	6.5	3.6	10.8
100	3.6	2.1	6.3

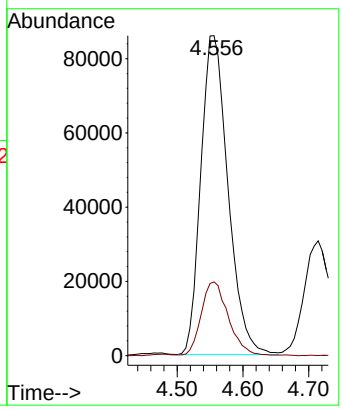




#25
2-Butanone
Concen: 296.078 ug/l
RT: 4.556 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 43 Resp: 24709

Ion	Ratio	Lower	Upper
43	100		
72	23.0	18.4	27.6



Instrument :
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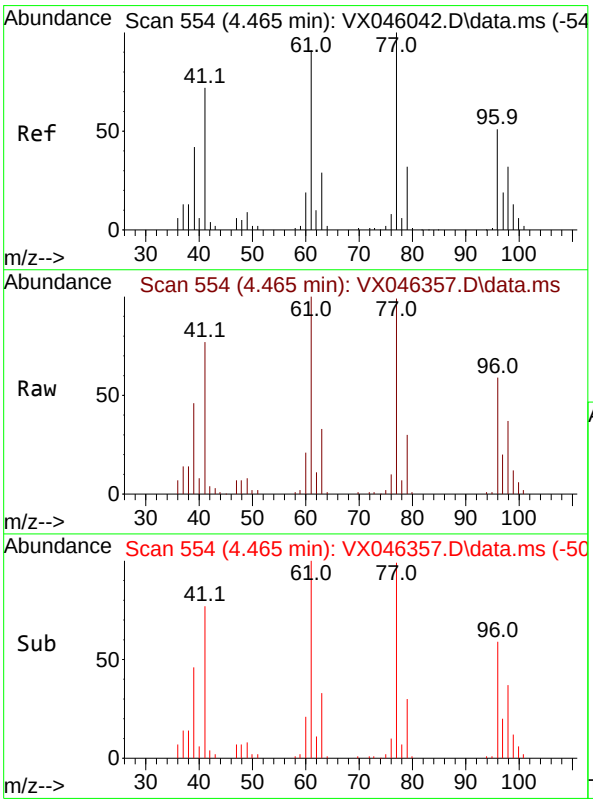
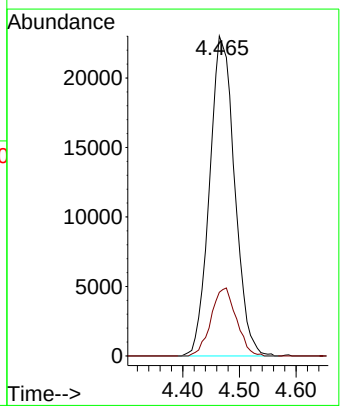
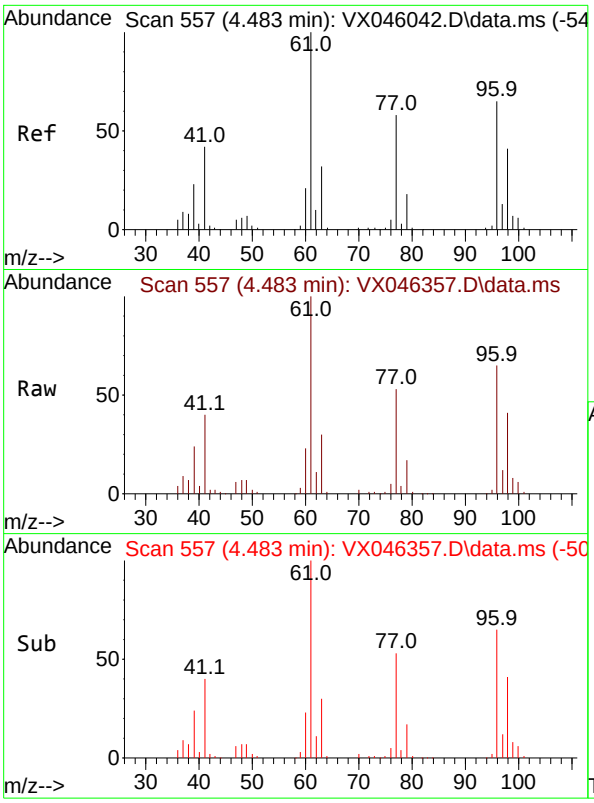


#26
2,2-Dichloropropane
Concen: 48.116 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 77 Resp: 70613

Ion	Ratio	Lower	Upper
77	100		
97	21.4	10.5	31.5

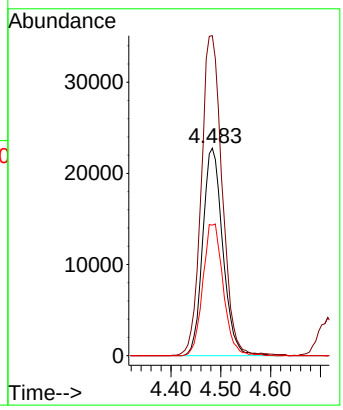




#27
cis-1,2-Dichloroethene
Concen: 57.522 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 96 Resp: 6350

Ion	Ratio	Lower	Upper
96	100		
61	161.6	0.0	322.8
98	64.6	0.0	129.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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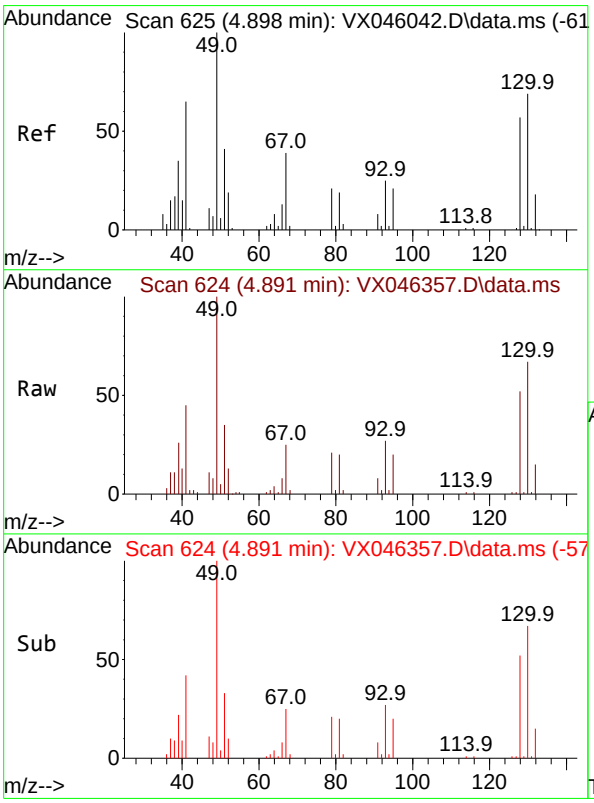
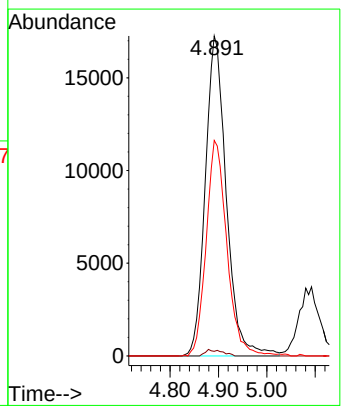
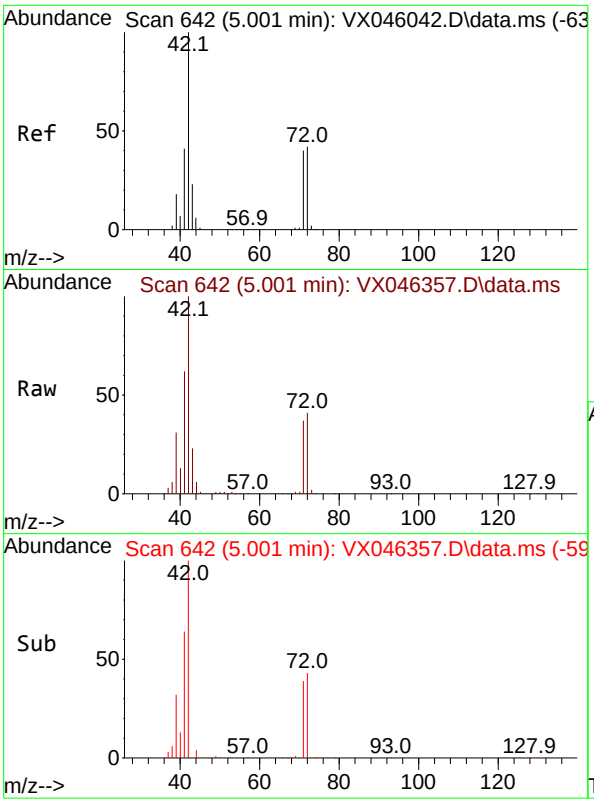


#28
Bromochloromethane
Concen: 57.760 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 49 Resp: 52129

Ion	Ratio	Lower	Upper
49	100		
129	1.6	0.0	4.0
130	66.3	56.2	84.2





#29
Tetrahydrofuran
Concen: 295.465 ug/l
RT: 5.001 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 42 Resp: 15451

Ion	Ratio	Lower	Upper
42	100		
72	41.5	33.7	50.5
71	38.7	31.4	47.2

Instrument :
MSVOA_X
ClientSampleId :
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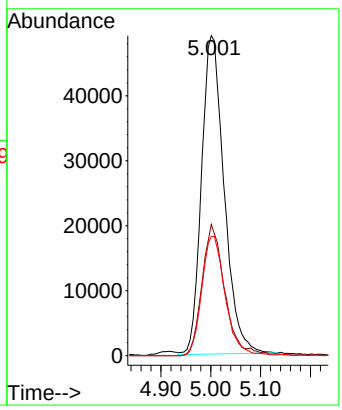
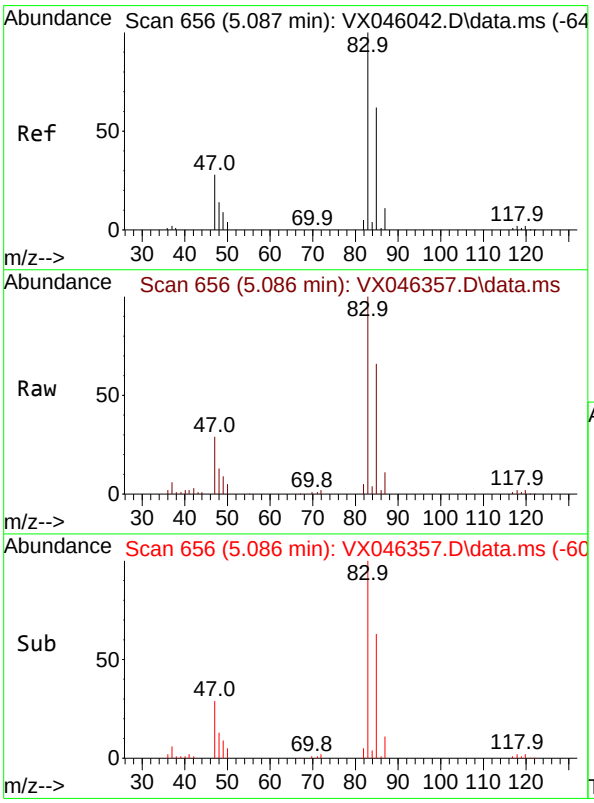
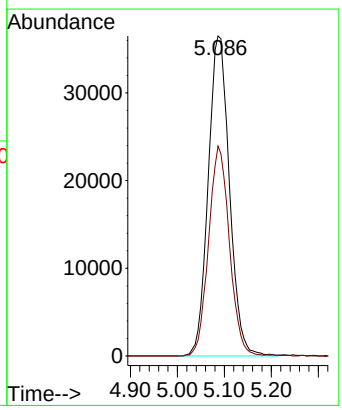


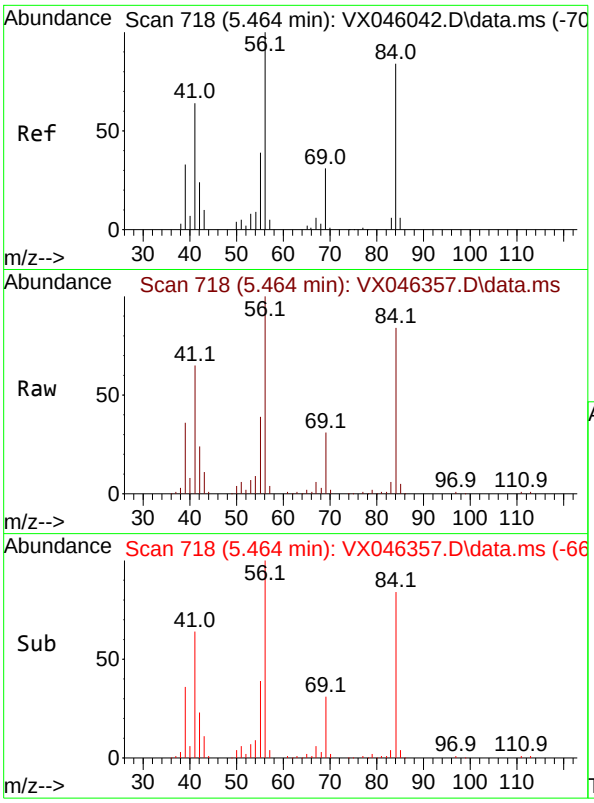


#30
Chloroform
Concen: 58.573 ug/l
RT: 5.086 min Scan# 656
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 83 Resp: 114469

Ion	Ratio	Lower	Upper
83	100		
85	65.5	49.3	73.9

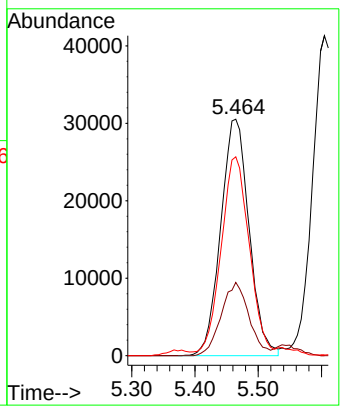




#31
Cyclohexane
Concen: 55.632 ug/l
RT: 5.464 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 56 Resp: 9505

Ion	Ratio	Lower	Upper
56	100		
69	31.0	24.4	36.6
84	82.1	66.9	100.3



Instrument :
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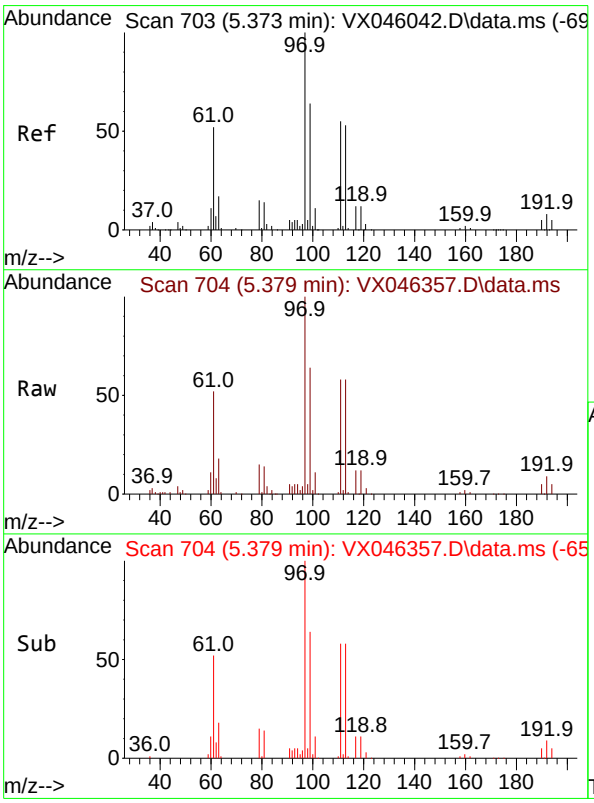
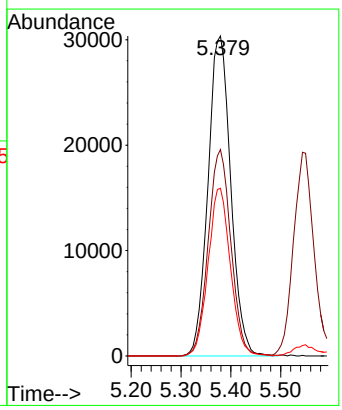
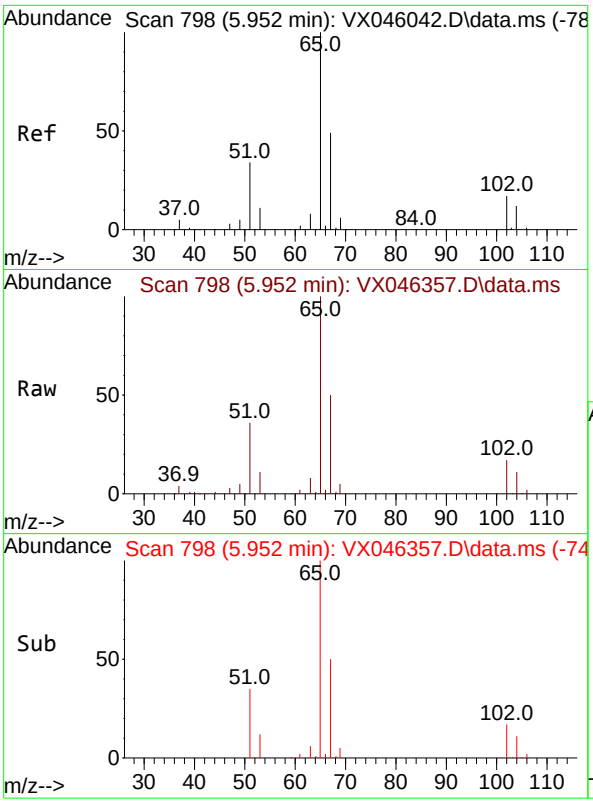


#32
1,1,1-Trichloroethane
Concen: 56.869 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.006 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 97 Resp: 96340

Ion	Ratio	Lower	Upper
97	100		
99	64.1	51.8	77.6
61	51.4	40.1	60.1

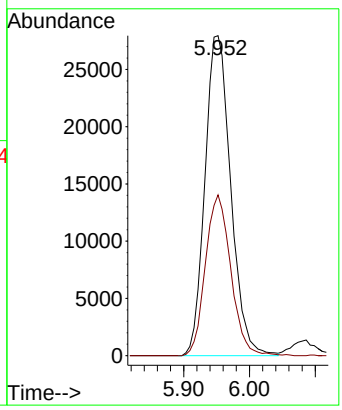




#33
1,2-Dichloroethane-d4
Concen: 53.222 ug/l
RT: 5.952 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 65 Resp: 7630

Ion	Ratio	Lower	Upper
65	100		
67	49.5	0.0	99.0



Instrument :
MSVOA_X
ClientSampleId :
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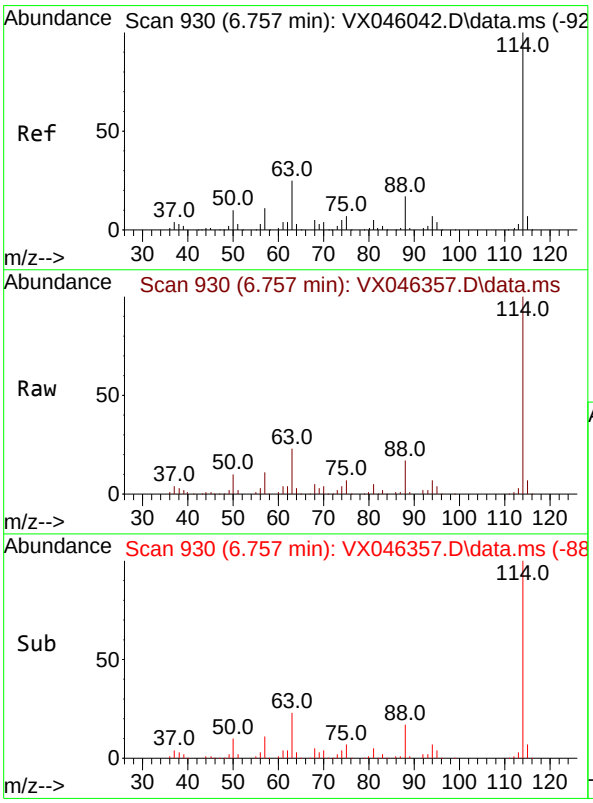
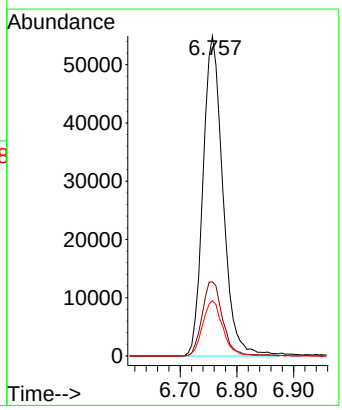
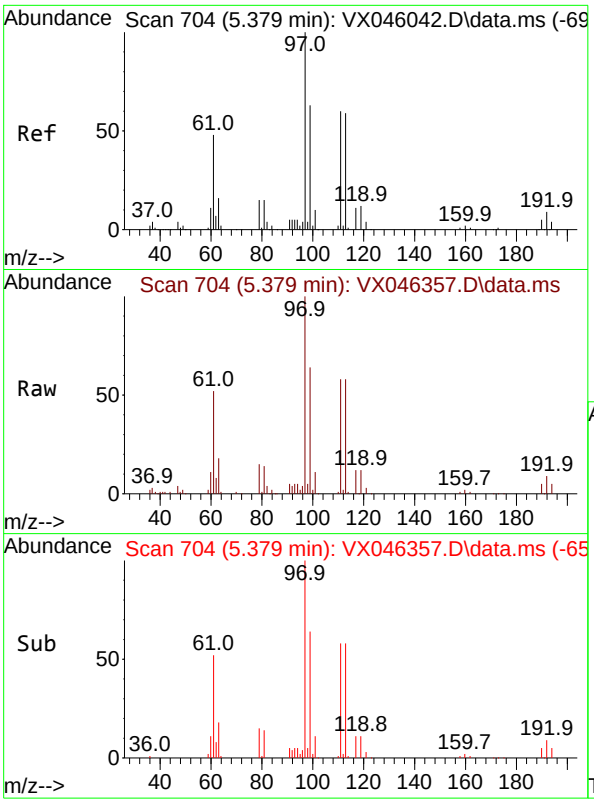


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion:114 Resp: 133895

Ion	Ratio	Lower	Upper
114	100		
63	23.2	0.0	49.2
88	17.3	0.0	33.6

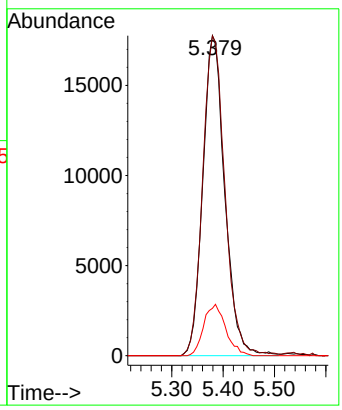




#35
Dibromofluoromethane
Concen: 54.480 ug/l
RT: 5.379 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion:113 Resp: 5252

Ion	Ratio	Lower	Upper
113	100		
111	101.6	83.1	124.7
192	16.2	13.3	19.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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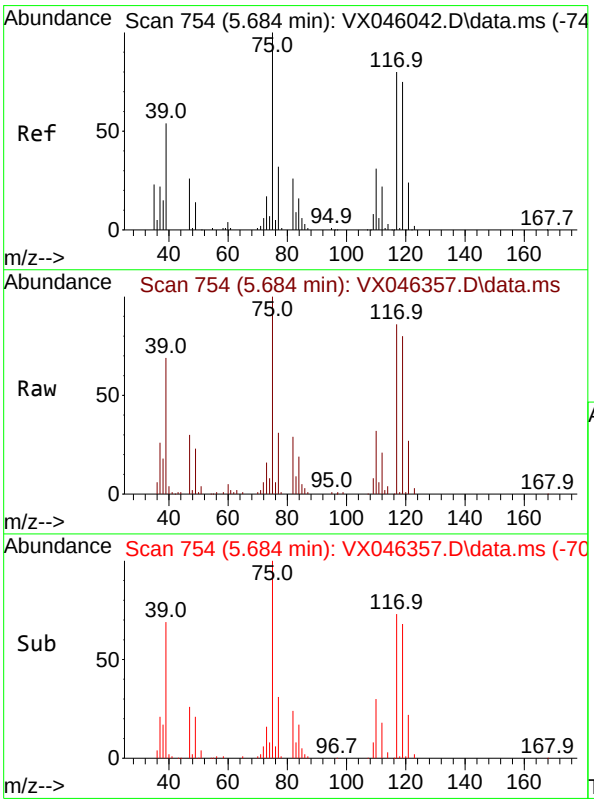
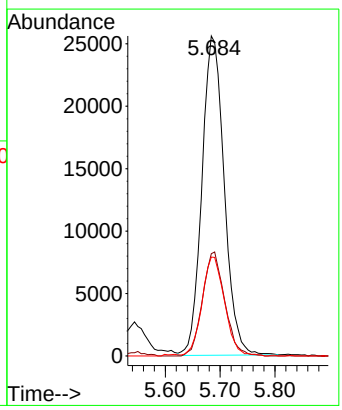
Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025

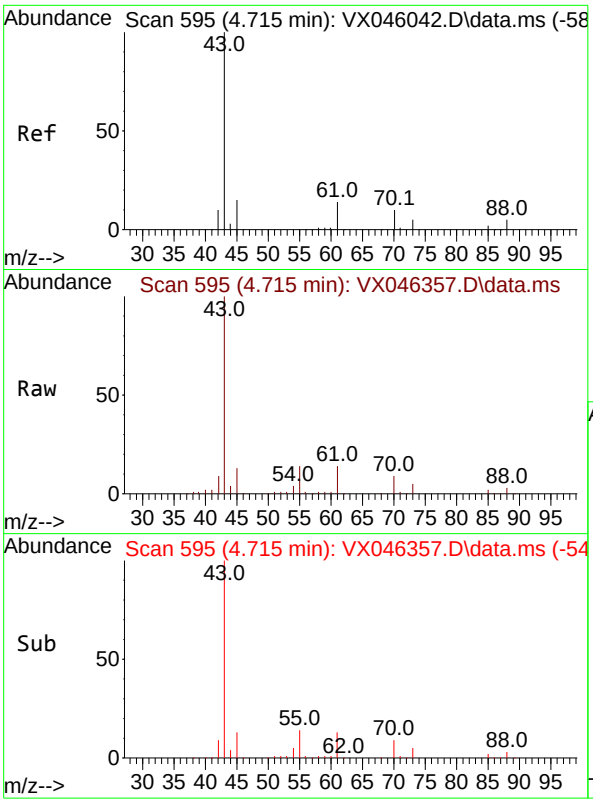


#36
1,1-Dichloropropene
Concen: 55.684 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 75 Resp: 72138

Ion	Ratio	Lower	Upper
75	100		
110	32.4	16.3	48.9
77	31.4	24.3	36.5

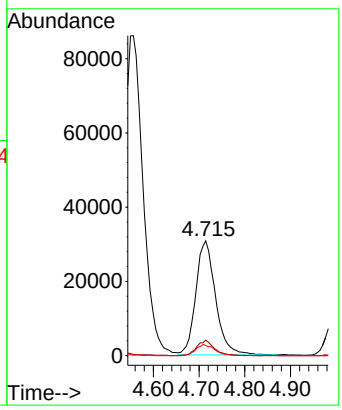




#37
Ethyl Acetate
Concen: 57.707 ug/l
RT: 4.715 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 43 Resp: 9236

Ion	Ratio	Lower	Upper
43	100		
61	12.2	10.3	15.5
70	9.4	7.9	11.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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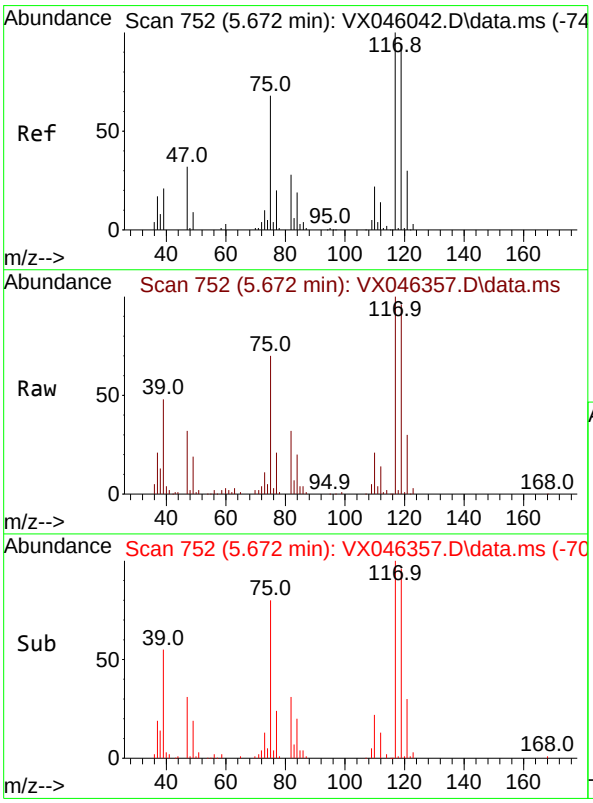
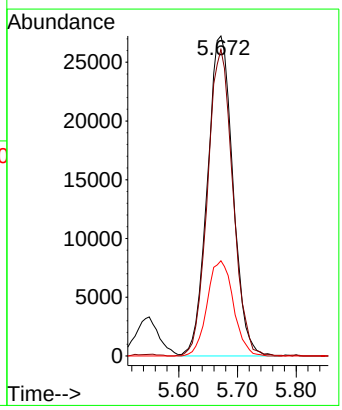
Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025

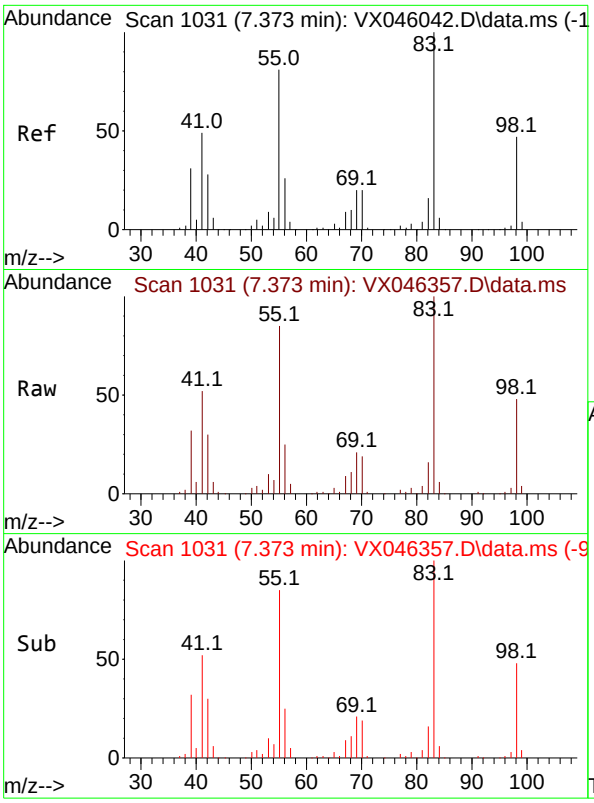


#38
Carbon Tetrachloride
Concen: 56.496 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion:117 Resp: 82234

Ion	Ratio	Lower	Upper
117	100		
119	95.6	75.2	112.8
121	29.7	24.2	36.4

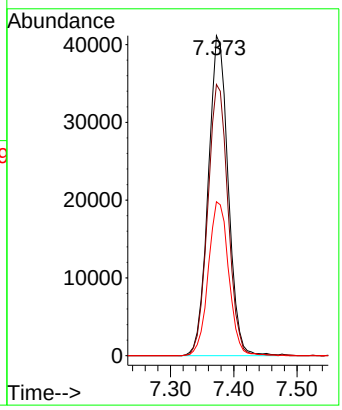




#39
Methylcyclohexane
Concen: 54.143 ug/l
RT: 7.373 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 83 Resp: 9030

Ion	Ratio	Lower	Upper
83	100		
55	84.8	64.7	97.1
98	48.1	37.4	56.2



Instrument :
MSVOA_X
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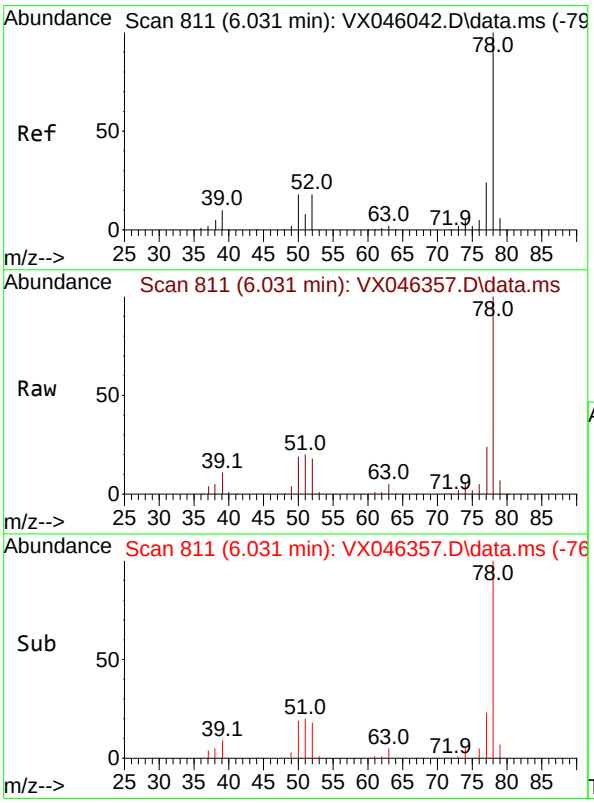
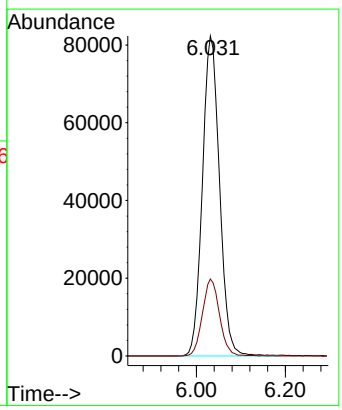
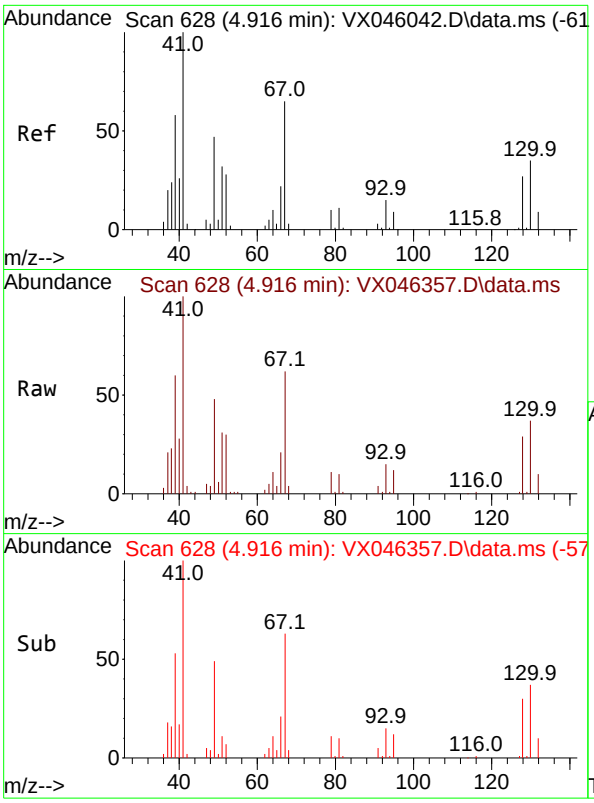


#40
Benzene
Concen: 58.216 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 78 Resp: 220905

Ion	Ratio	Lower	Upper
78	100		
77	24.0	19.0	28.4

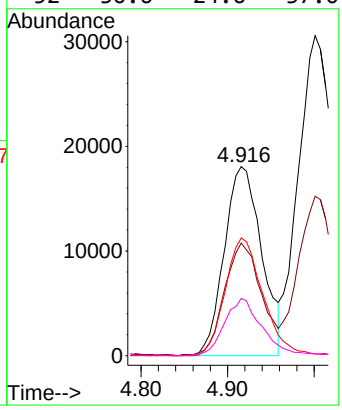




#41
Methacrylonitrile
Concen: 64.894 ug/l
RT: 4.916 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 41 Resp: 5433

Ion	Ratio	Lower	Upper
41	100		
39	58.8	47.2	70.8
67	62.8	50.7	76.1
52	30.6	24.6	37.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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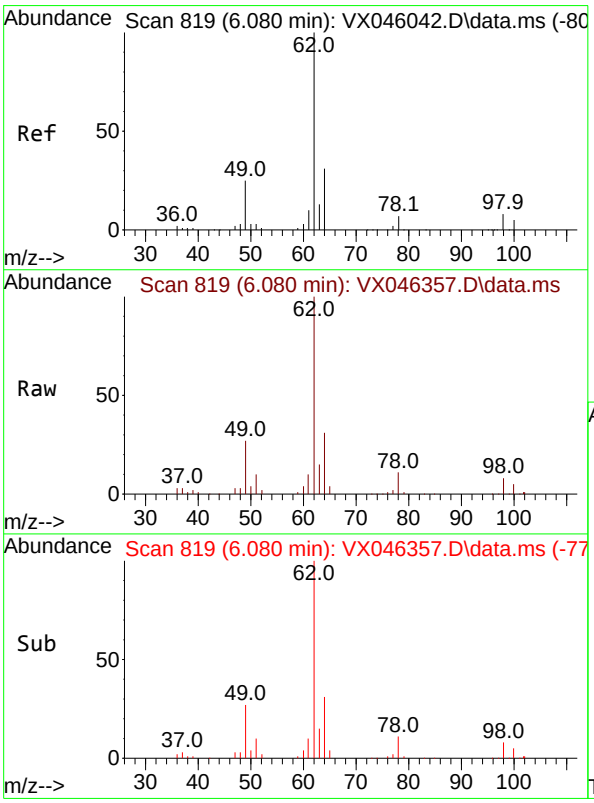
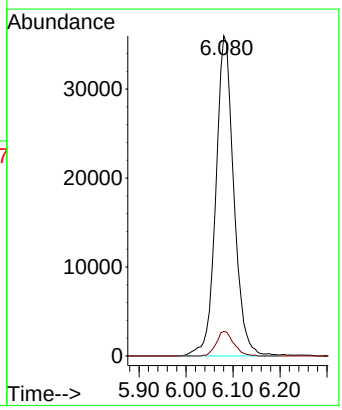
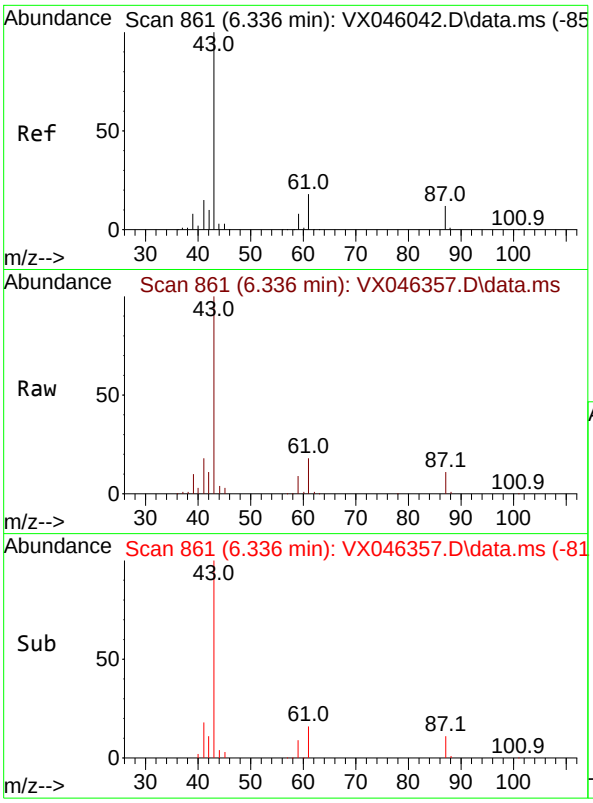


#42
1,2-Dichloroethane
Concen: 58.585 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 62 Resp: 95945

Ion	Ratio	Lower	Upper
62	100		
98	7.4	0.0	15.2





#43
Isopropyl Acetate
Concen: 59.095 ug/l
RT: 6.336 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 43 Resp: 14429

Ion	Ratio	Lower	Upper
43	100		
61	17.4	14.3	21.5
87	11.5	9.5	14.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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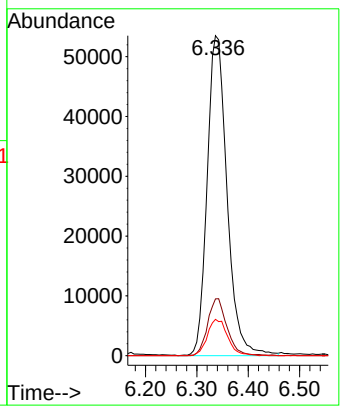
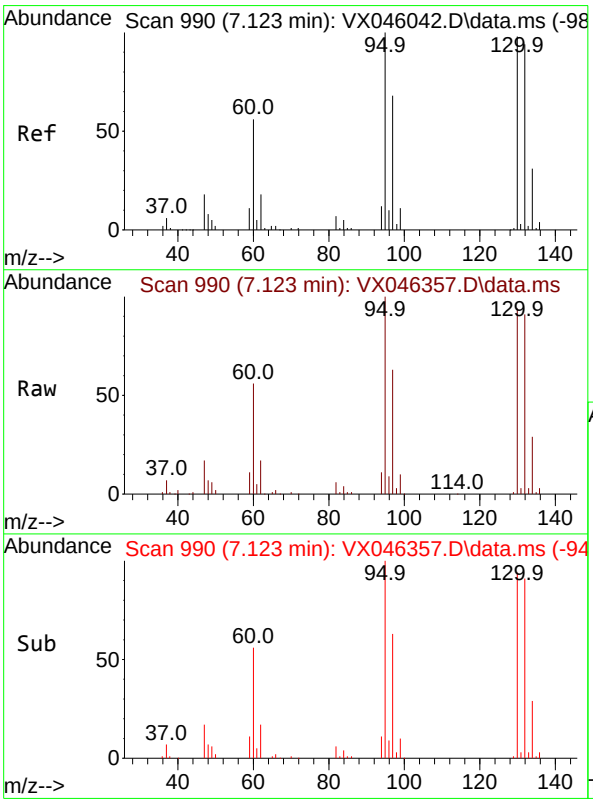
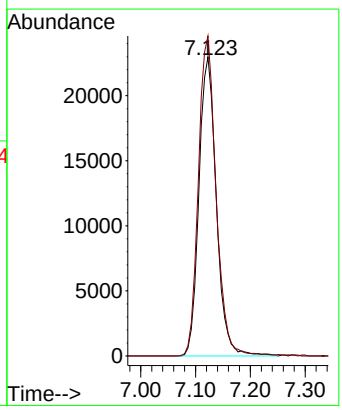


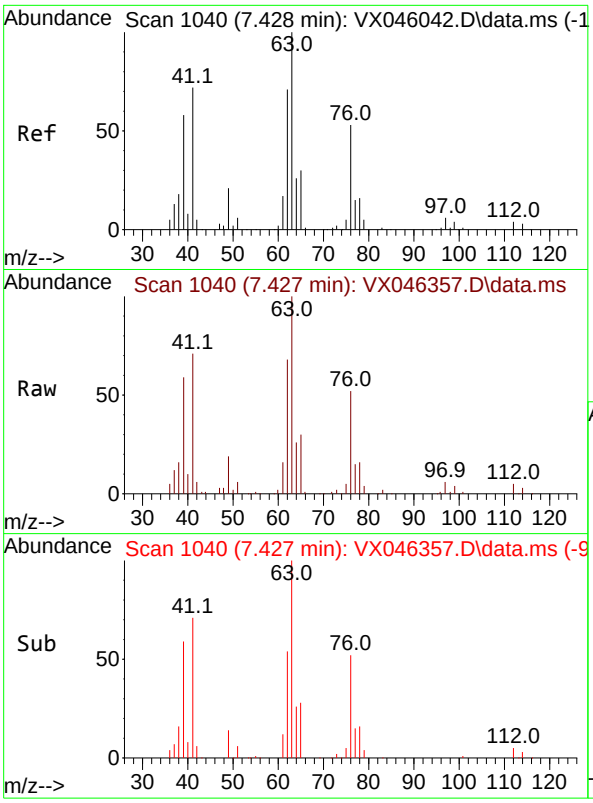


#44
Trichloroethene
Concen: 55.577 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion:130 Resp: 50758

Ion	Ratio	Lower	Upper
130	100		
95	106.9	0.0	204.2

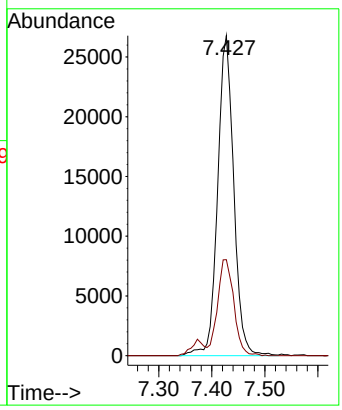




#45
1,2-Dichloropropane
Concen: 59.869 ug/l
RT: 7.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 63 Resp: 5648

Ion	Ratio	Lower	Upper
63	100		
65	30.0	24.1	36.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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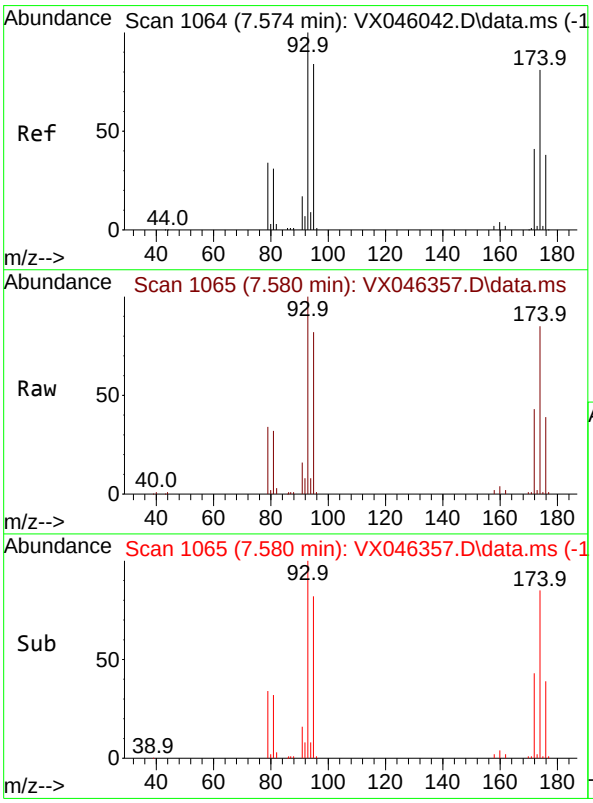
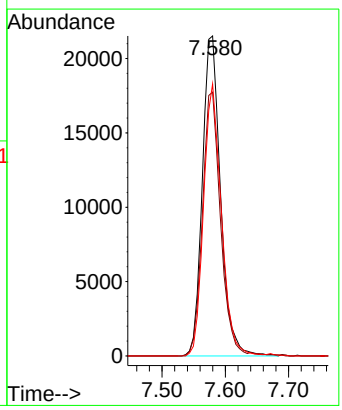
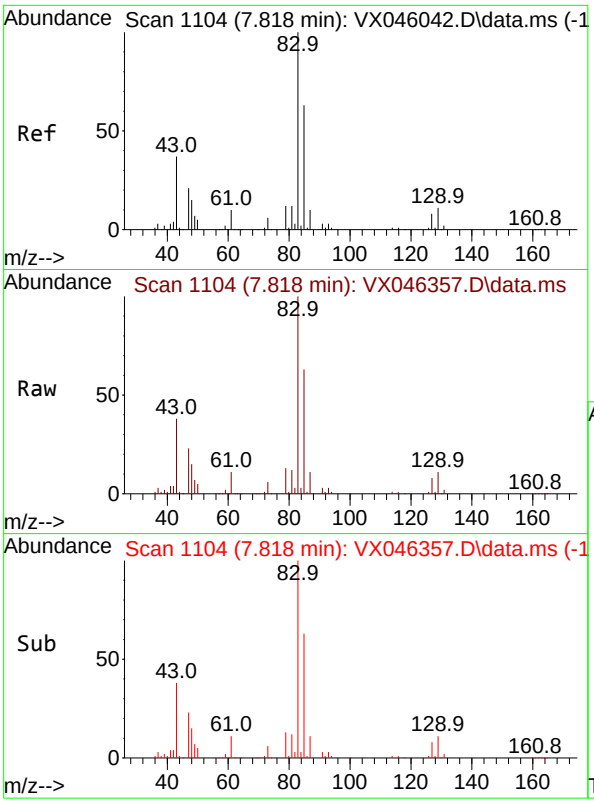


#46
Dibromomethane
Concen: 57.908 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. 0.006 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 93 Resp: 43094

Ion	Ratio	Lower	Upper
93	100		
95	82.5	65.6	98.4
174	83.1	68.2	102.2

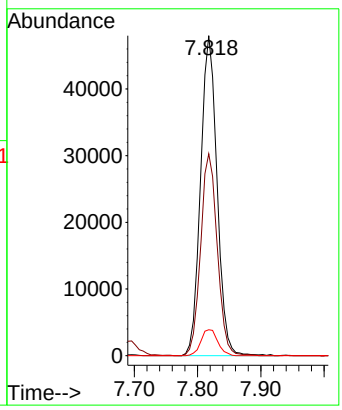




#47
Bromodichloromethane
Concen: 59.530 ug/l
RT: 7.818 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 83 Resp: 8725

Ion	Ratio	Lower	Upper
83	100		
85	63.1	50.5	75.7
127	8.1	6.5	9.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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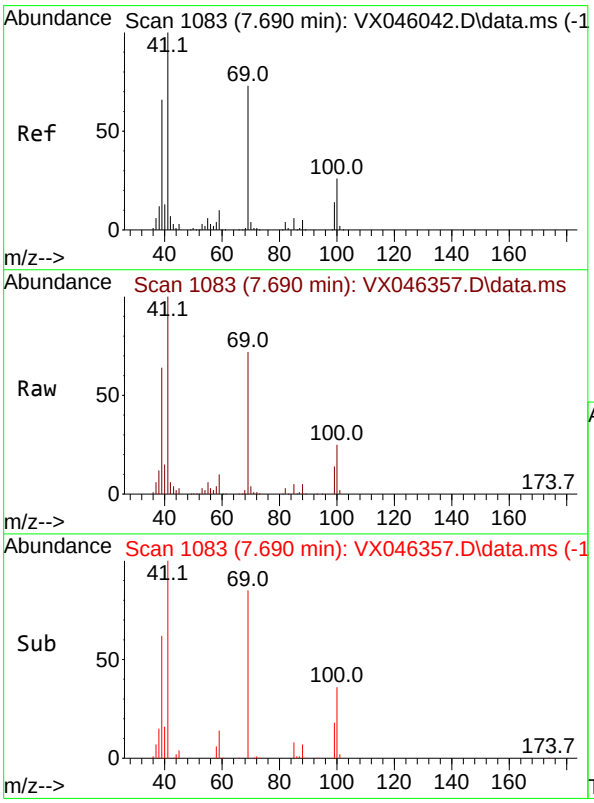
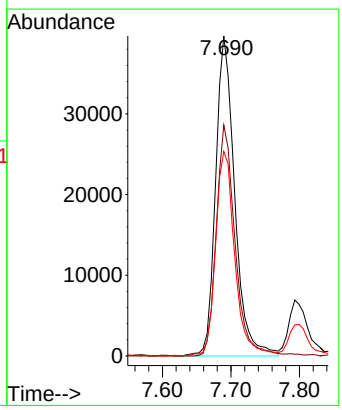
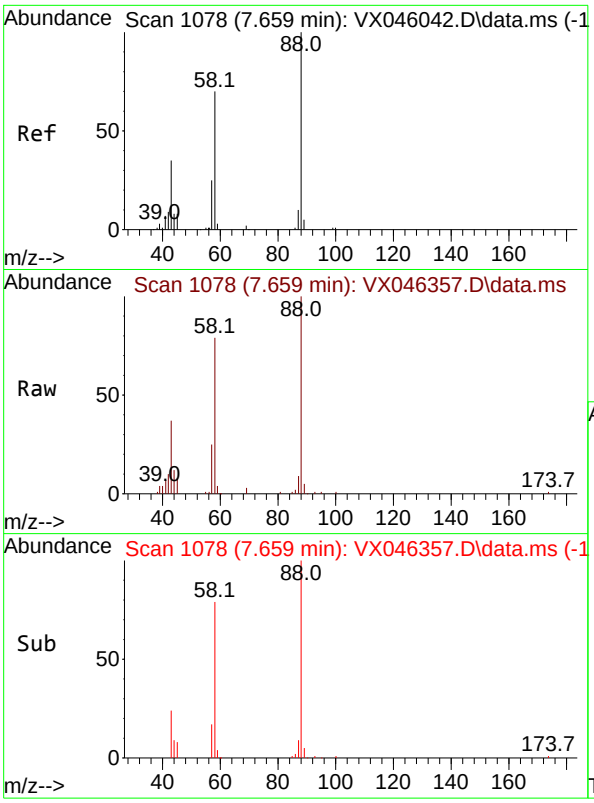


#48
Methyl methacrylate
Concen: 61.388 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 41 Resp: 76552

Ion	Ratio	Lower	Upper
41	100		
69	71.3	58.5	87.7
39	64.4	51.7	77.5





#49
1,4-Dioxane
Concen: 1156.492 ug/l
RT: 7.659 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 88 Resp: 2738

Ion	Ratio	Lower	Upper
88	100		
43	42.8	33.4	50.2
58	76.3	58.6	88.0

Instrument :
MSVOA_X
ClientSampleId :
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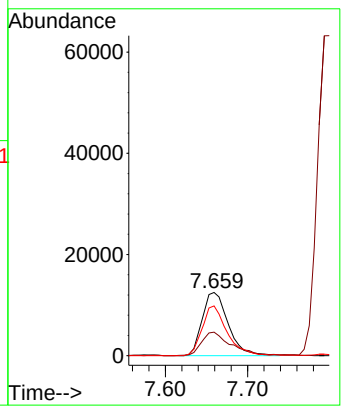
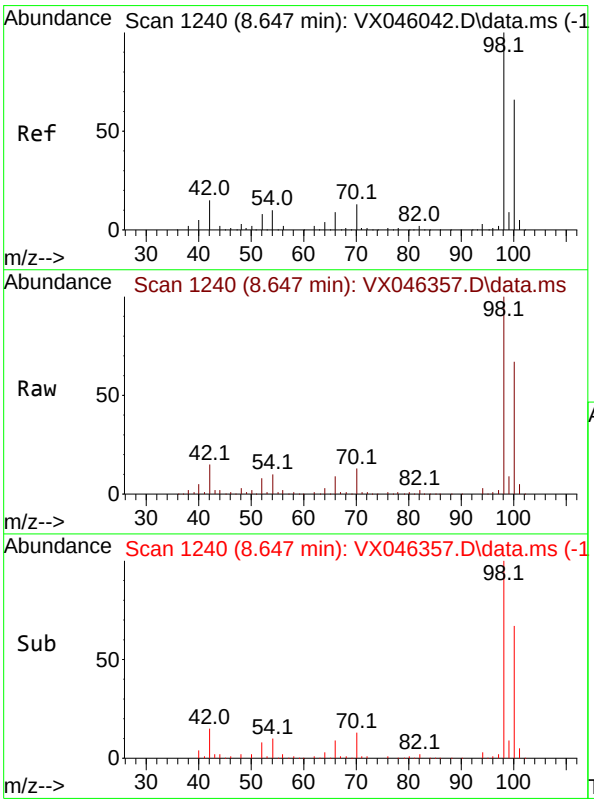
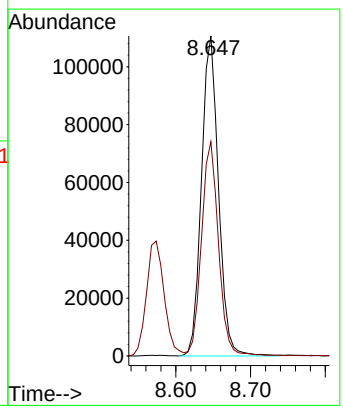


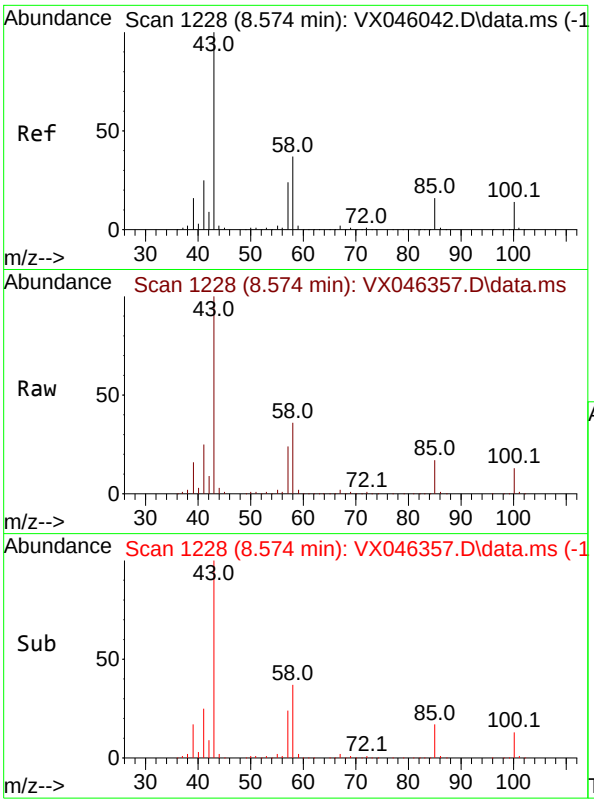


#50
Toluene-d8
Concen: 52.406 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 98 Resp: 174887

Ion	Ratio	Lower	Upper
98	100		
100	66.5	53.5	80.3

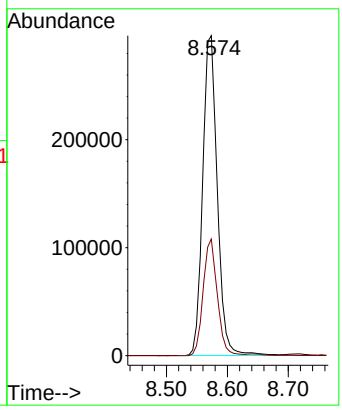




#51
4-Methyl-2-Pentanone
Concen: 305.280 ug/l
RT: 8.574 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 43 Resp: 49480

Ion	Ratio	Lower	Upper
43	100		
58	35.3	28.9	43.3



Instrument :
MSVOA_X
ClientSampleId :
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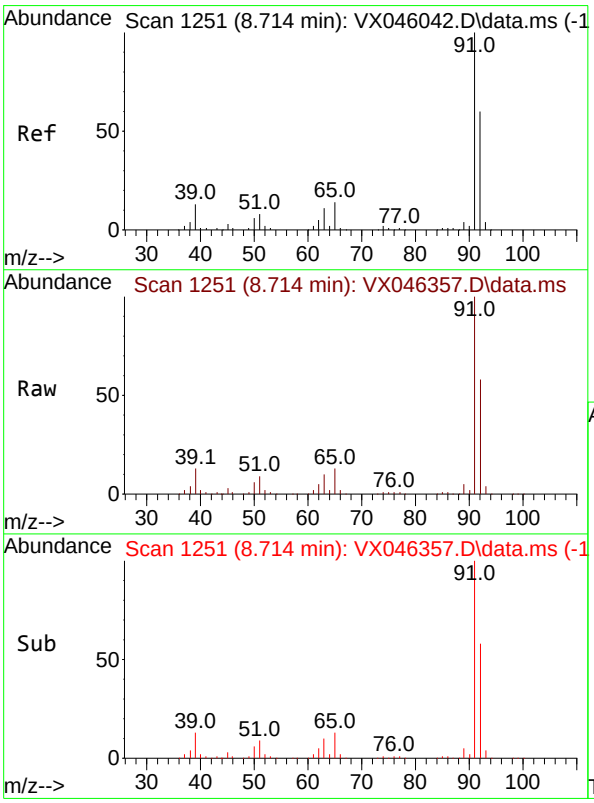
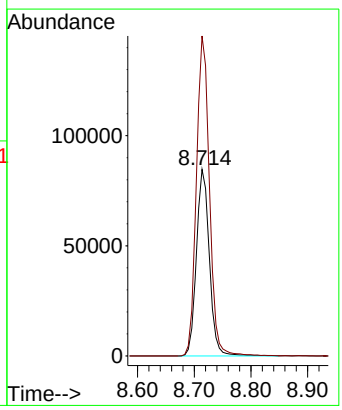
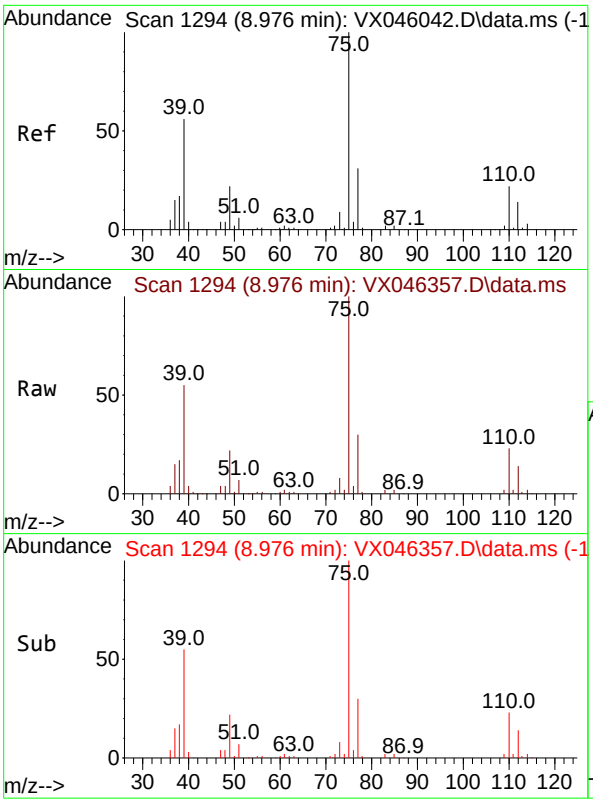


#52
Toluene
Concen: 57.742 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 92 Resp: 134352

Ion	Ratio	Lower	Upper
92	100		
91	172.8	136.6	205.0

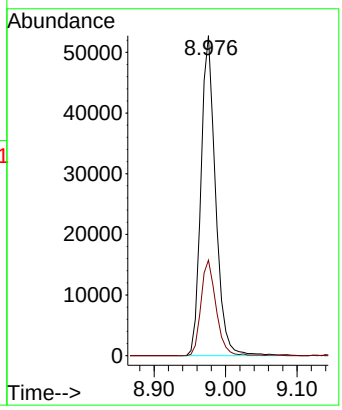




#53
t-1,3-Dichloropropene
Concen: 57.441 ug/l
RT: 8.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 75 Resp: 7483

Ion	Ratio	Lower	Upper
75	100		
77	29.8	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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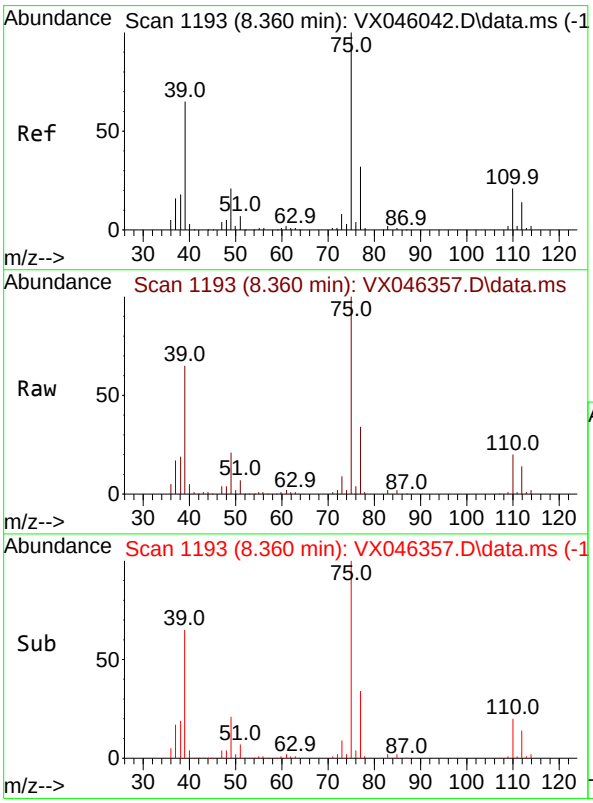
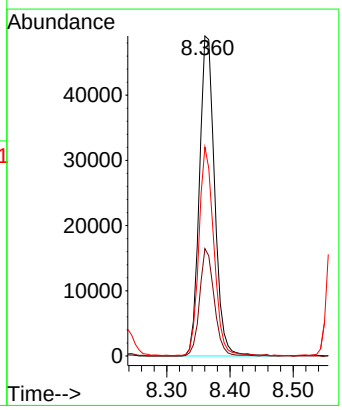
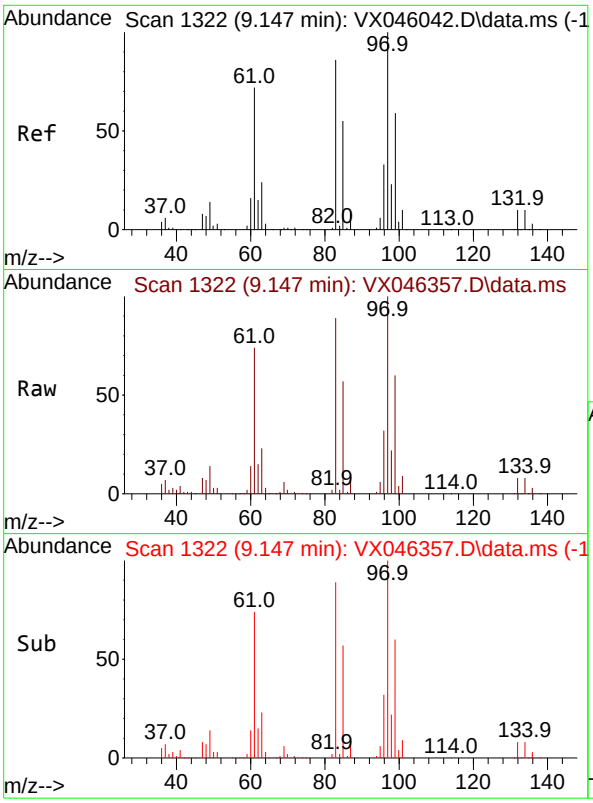


#54
cis-1,3-Dichloropropene
Concen: 57.117 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 75 Resp: 82245

Ion	Ratio	Lower	Upper
75	100		
77	33.6	25.4	38.0
39	65.1	52.2	78.4

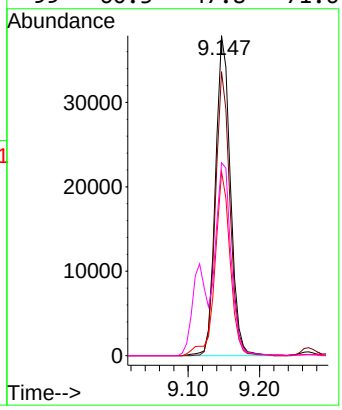




#55
1,1,2-Trichloroethane
Concen: 60.037 ug/l
RT: 9.147 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 97 Resp: 5508

Ion	Ratio	Lower	Upper
97	100		
83	88.7	69.0	103.6
85	57.5	44.3	66.5
99	60.3	47.8	71.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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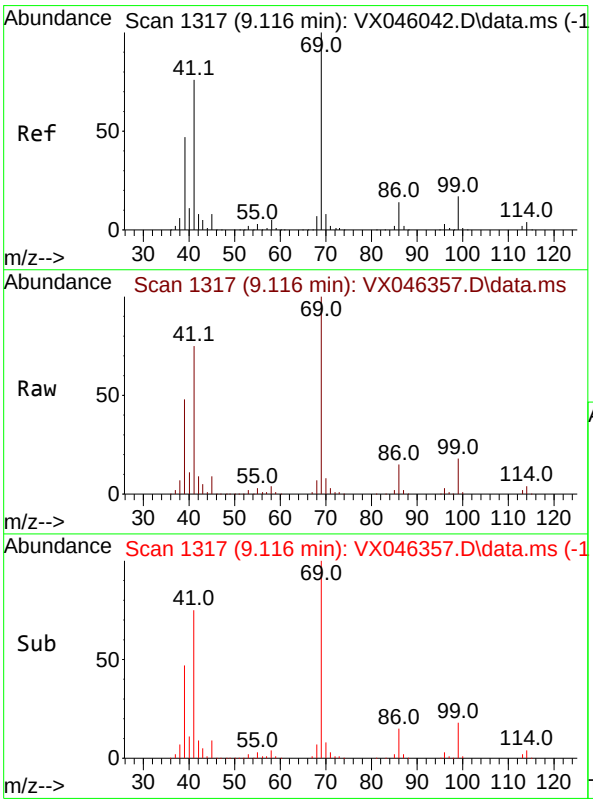
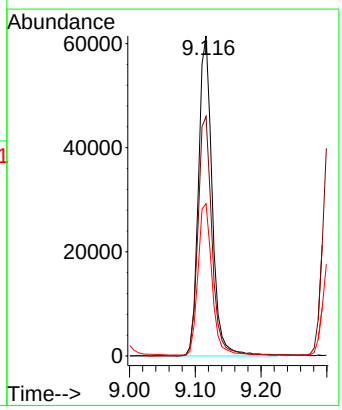
Supervised By :Mahesh Dadoda 05/26/2025

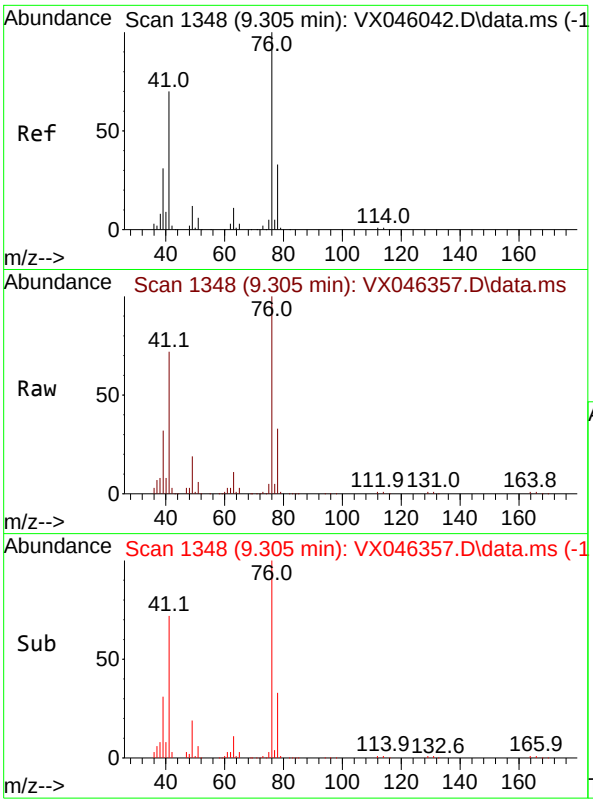


#56
Ethyl methacrylate
Concen: 61.050 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 69 Resp: 89269

Ion	Ratio	Lower	Upper
69	100		
41	77.1	60.8	91.2
39	48.8	39.0	58.6

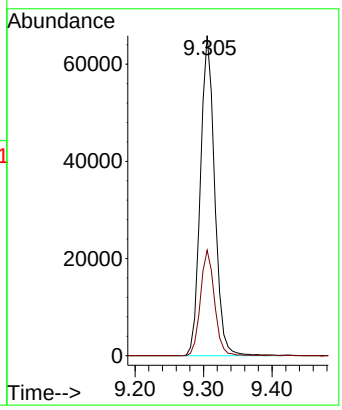




#57
1,3-Dichloropropane
Concen: 57.929 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 76 Resp: 9544

Ion	Ratio	Lower	Upper
76	100		
78	32.5	26.3	39.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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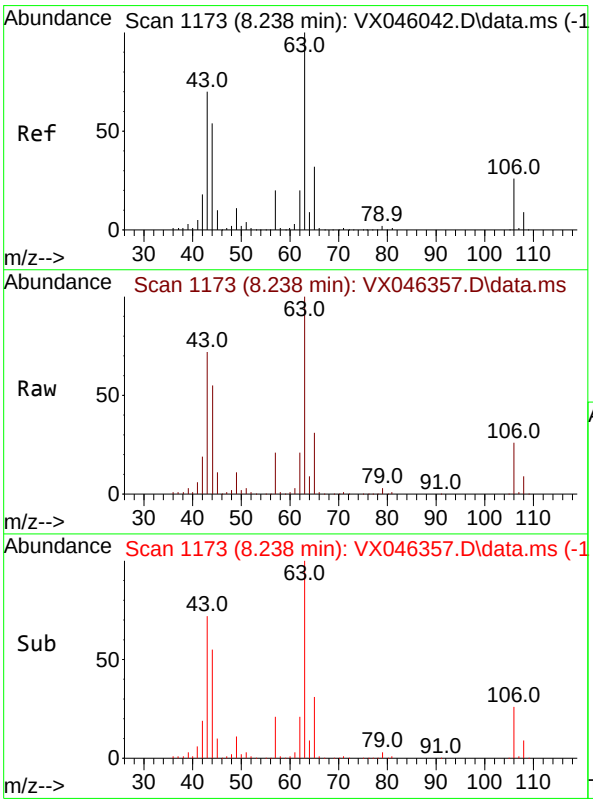
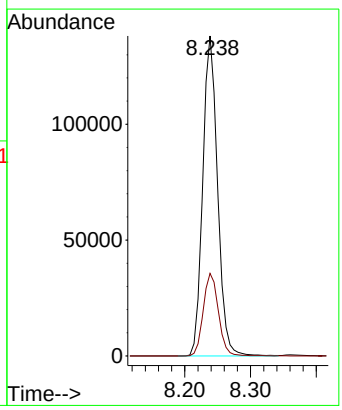
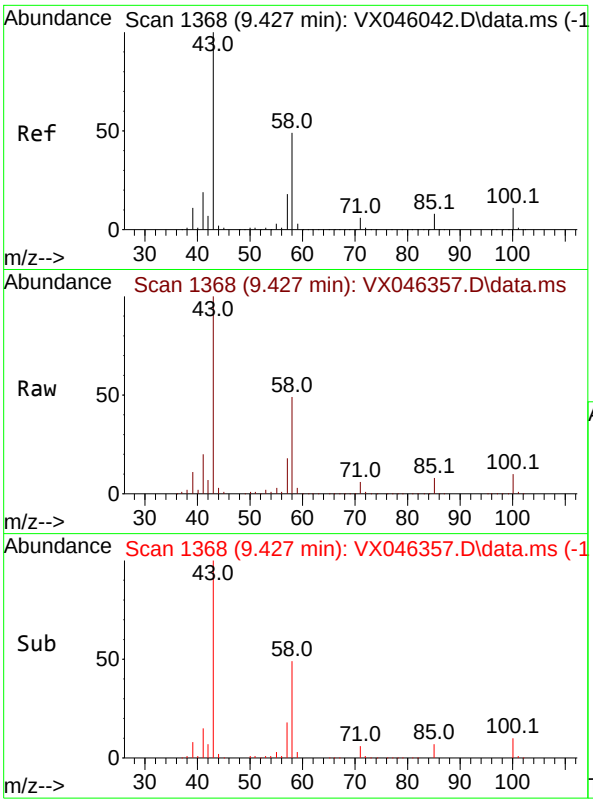


#58
2-Chloroethyl Vinyl ether
Concen: 290.480 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 63 Resp: 216543

Ion	Ratio	Lower	Upper
63	100		
106	26.4	21.5	32.3

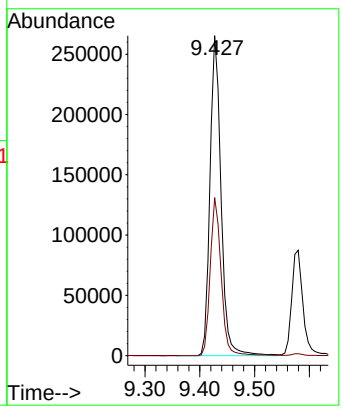




#59
2-Hexanone
Concen: 307.441 ug/l
RT: 9.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 43 Resp: 36866

Ion	Ratio	Lower	Upper
43	100		
58	49.1	24.9	74.6



Instrument :
MSVOA_X
ClientSampleId :
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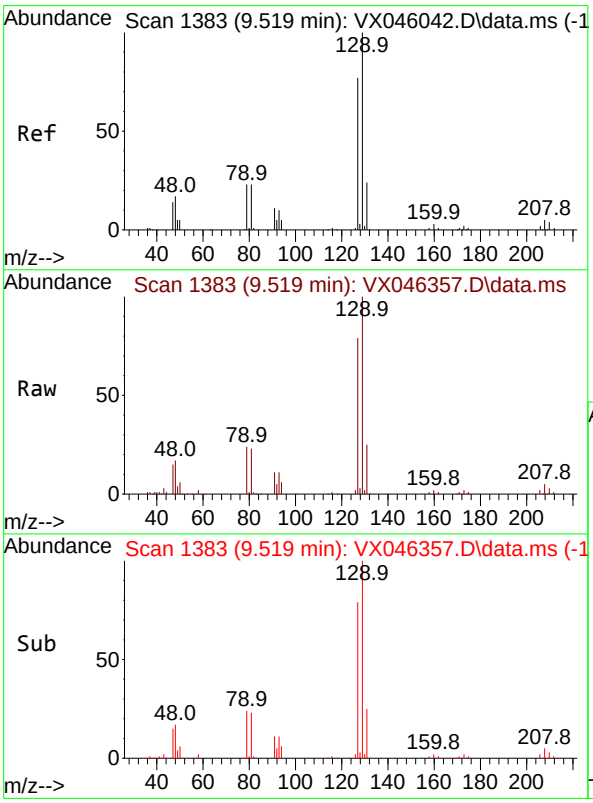
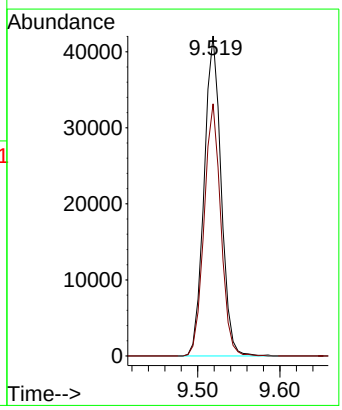
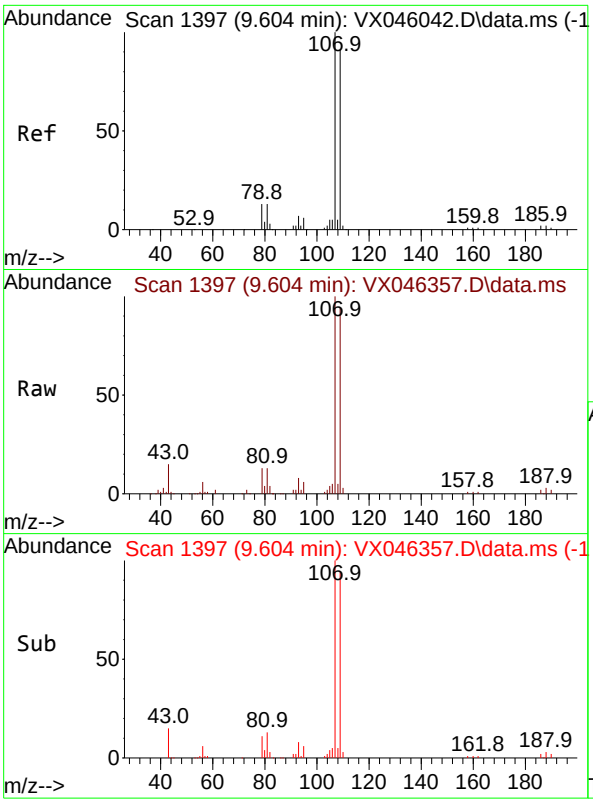


#60
Dibromochloromethane
Concen: 59.883 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion:129 Resp: 60337

Ion	Ratio	Lower	Upper
129	100		
127	77.3	39.3	117.8

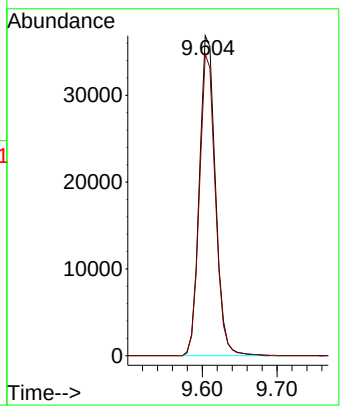




#61
1,2-Dibromoethane
Concen: 57.641 ug/l
RT: 9.604 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion:107 Resp: 5496

Ion	Ratio	Lower	Upper
107	100		
109	93.8	73.3	109.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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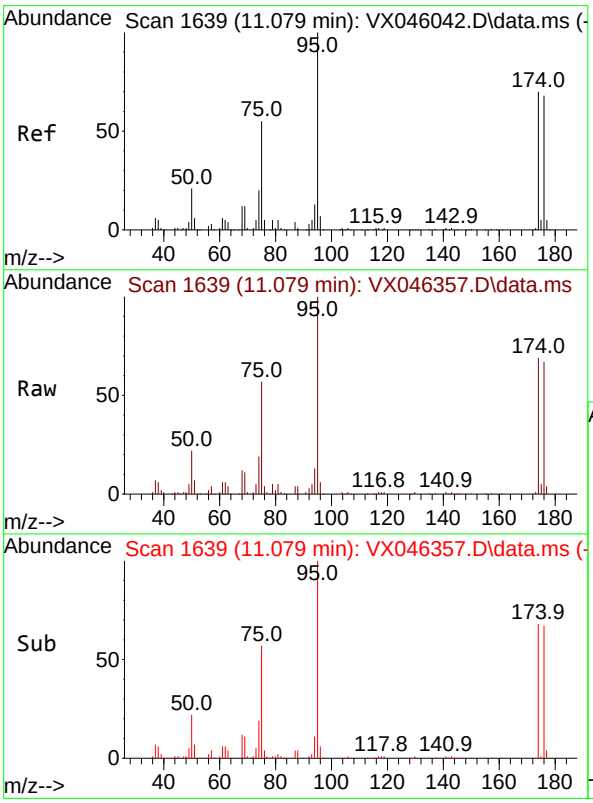
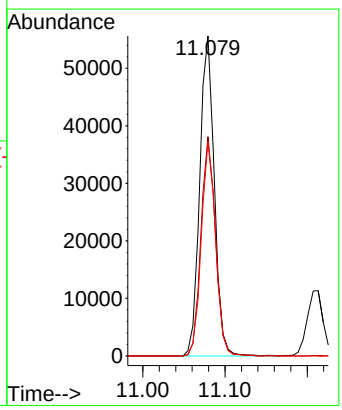
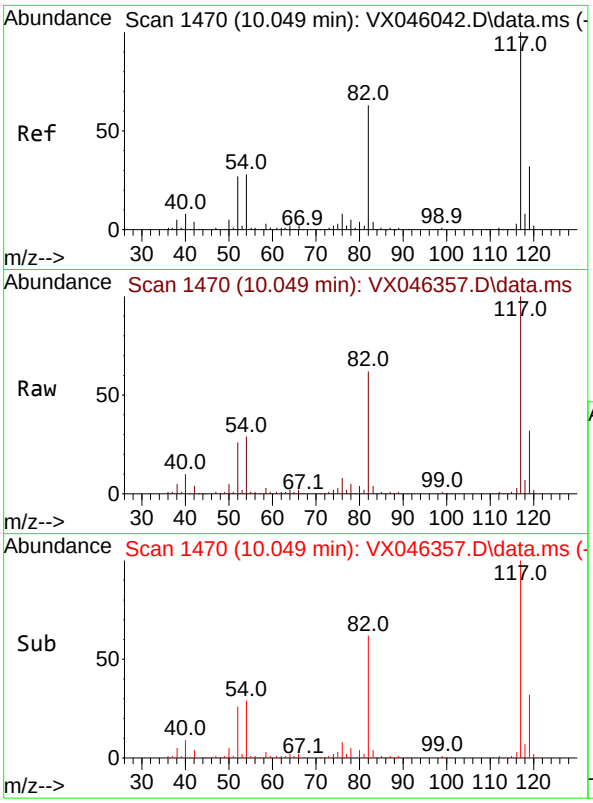


#62
4-Bromofluorobenzene
Concen: 53.512 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 95 Resp: 68500

Ion	Ratio	Lower	Upper
95	100		
174	68.4	0.0	135.8
176	65.3	0.0	131.4

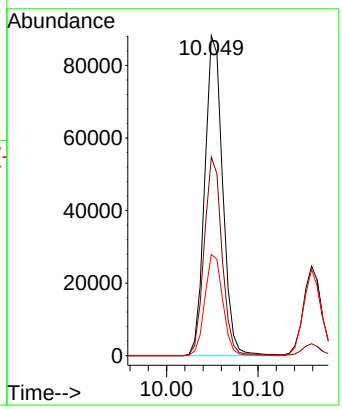




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion:117 Resp: 11979

Ion	Ratio	Lower	Upper
117	100		
82	62.1	50.6	76.0
119	31.6	25.8	38.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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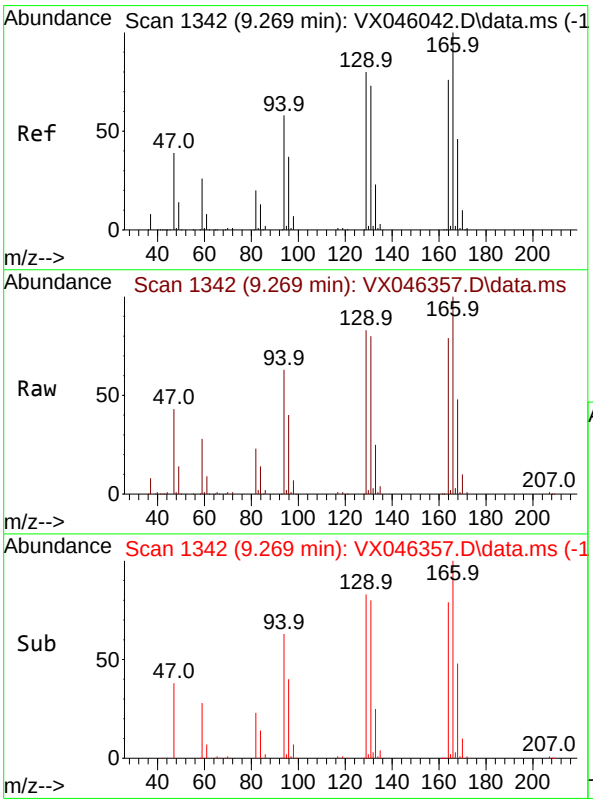
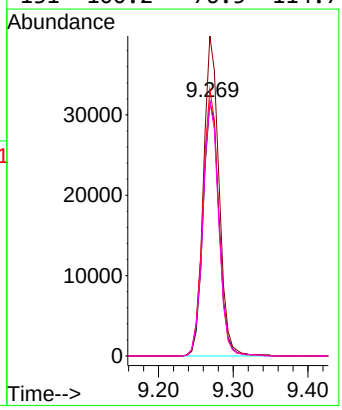
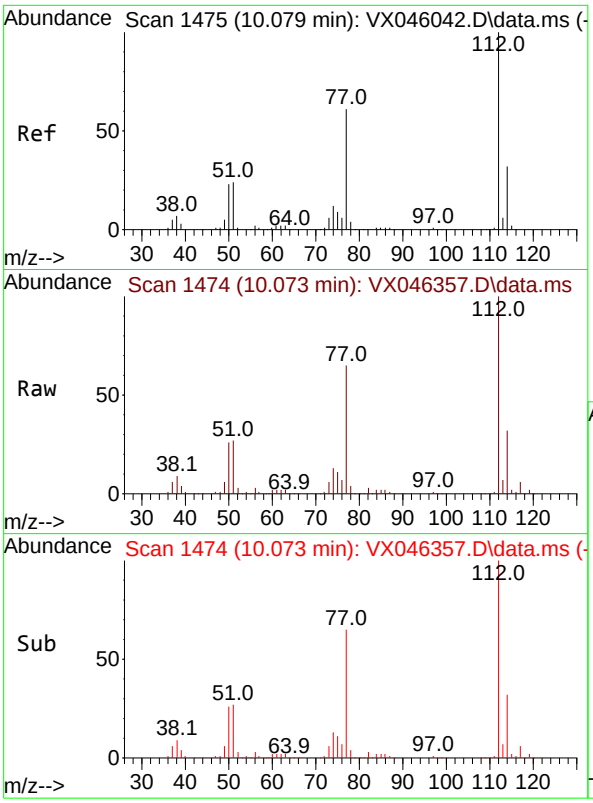


#64
Tetrachloroethene
Concen: 55.224 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion:164 Resp: 46807

Ion	Ratio	Lower	Upper
164	100		
166	125.8	105.0	157.6
129	104.8	83.5	125.3
131	100.2	76.5	114.7

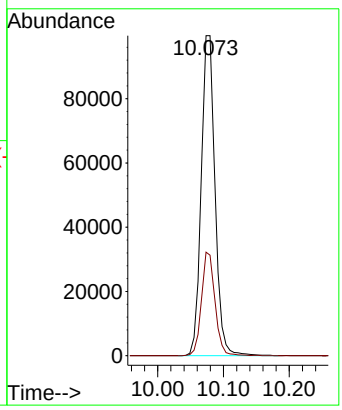




#65
Chlorobenzene
Concen: 55.532 ug/l
RT: 10.073 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion:112 Resp: 14560

Ion	Ratio	Lower	Upper
112	100		
114	32.4	25.4	38.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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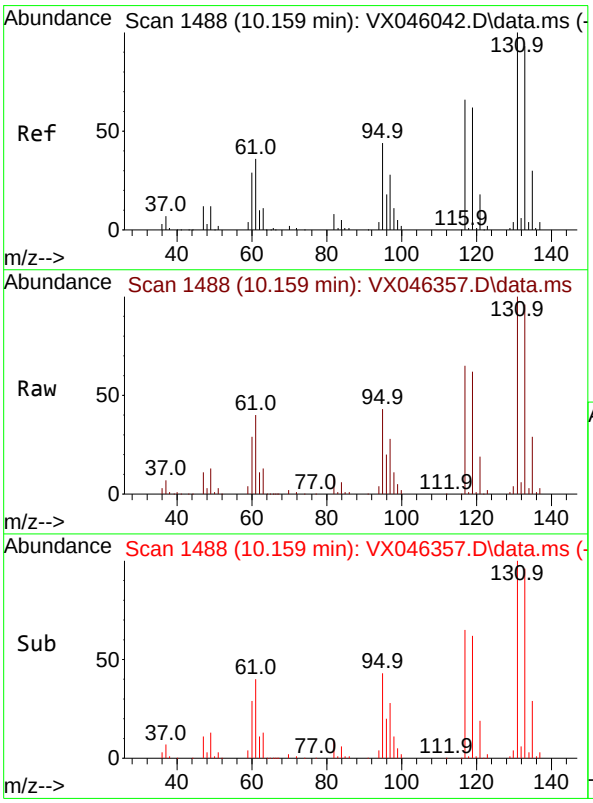
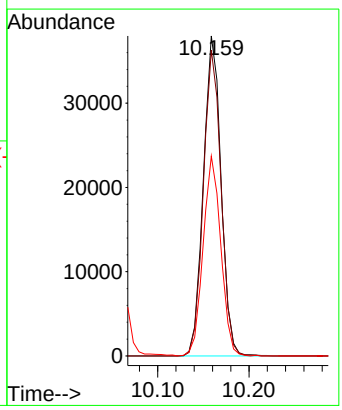
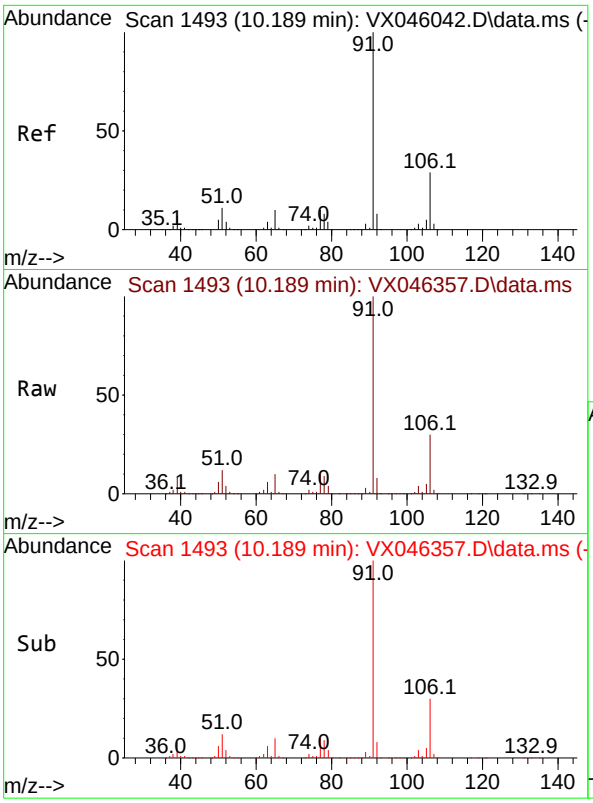


#66
1,1,1,2-Tetrachloroethane
Concen: 56.915 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion:131 Resp: 50957

Ion	Ratio	Lower	Upper
131	100		
133	95.6	47.3	141.9
119	62.5	31.6	95.0

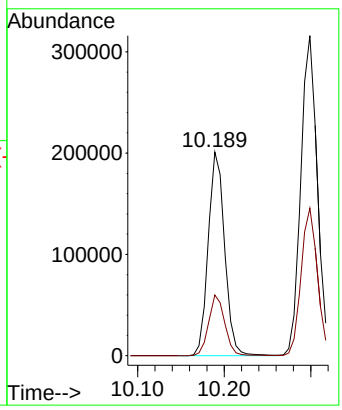




#67
Ethyl Benzene
Concen: 57.440 ug/l
RT: 10.189 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 91 Resp: 26547

Ion	Ratio	Lower	Upper
91	100		
106	29.8	23.4	35.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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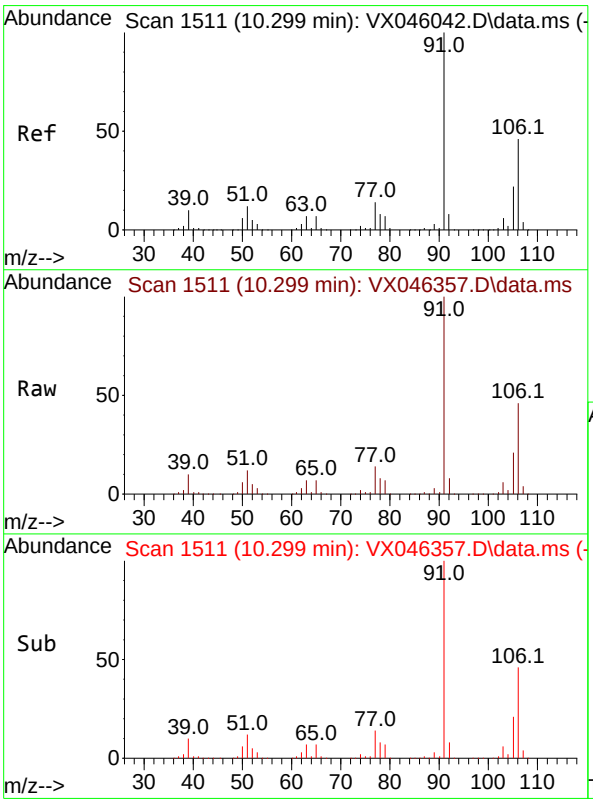
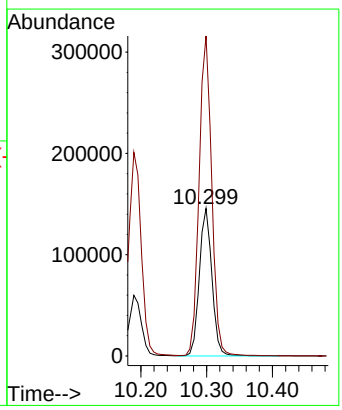
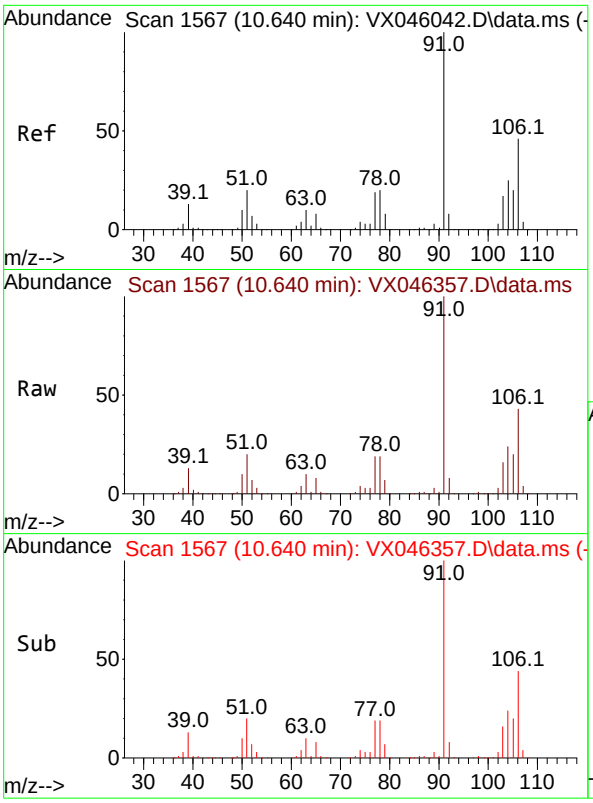


#68
m/p-Xylenes
Concen: 114.503 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion:106 Resp: 193557

Ion	Ratio	Lower	Upper
106	100		
91	217.9	171.2	256.8

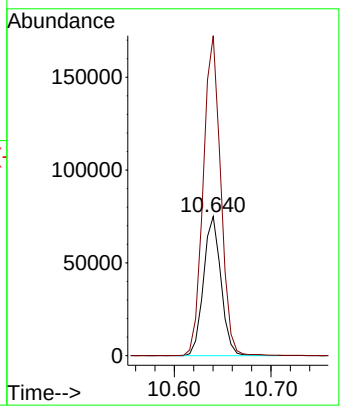




#69
o-Xylene
Concen: 57.235 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion:106 Resp: 9432

Ion	Ratio	Lower	Upper
106	100		
91	231.0	112.7	338.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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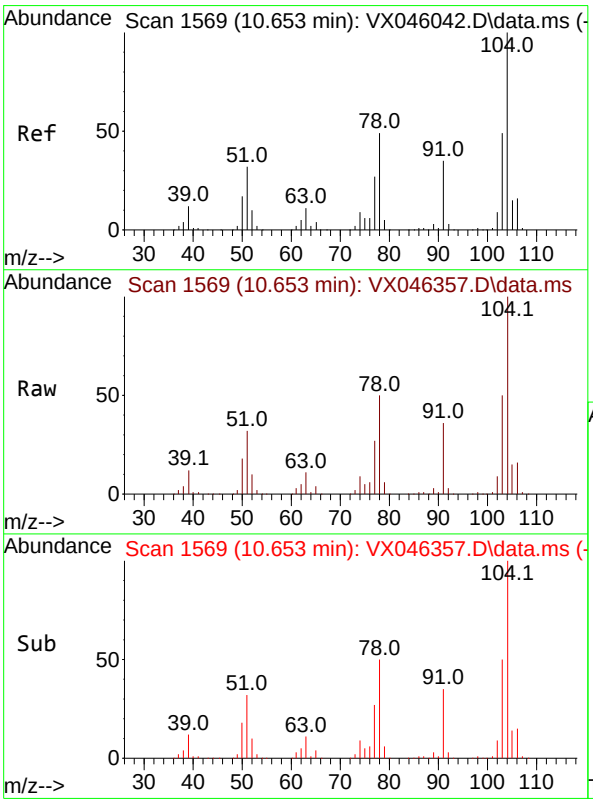
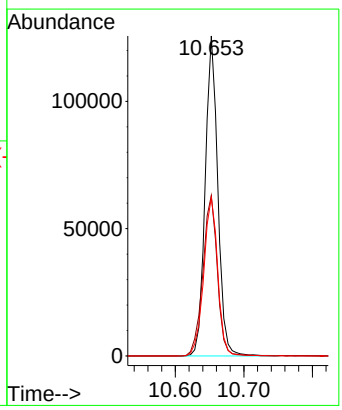
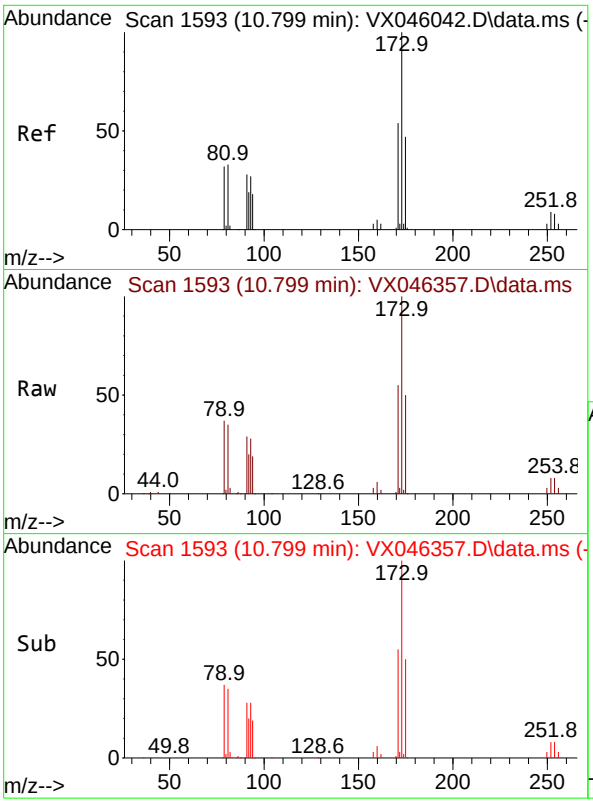


#70
Styrene
Concen: 59.760 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion:104 Resp: 161327

Ion	Ratio	Lower	Upper
104	100		
78	57.4	45.7	68.5
103	55.2	43.7	65.5

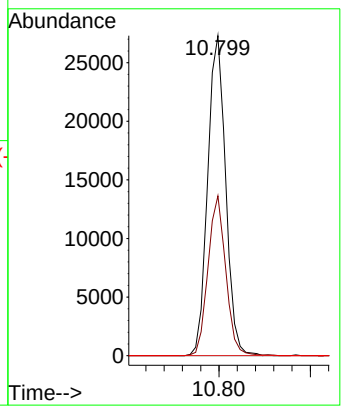




#71
Bromoform
Concen: 55.274 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion:173 Resp: 3715

Ion	Ratio	Lower	Upper
173	100		
175	49.5	23.4	70.0
254	0.0	0.0	0.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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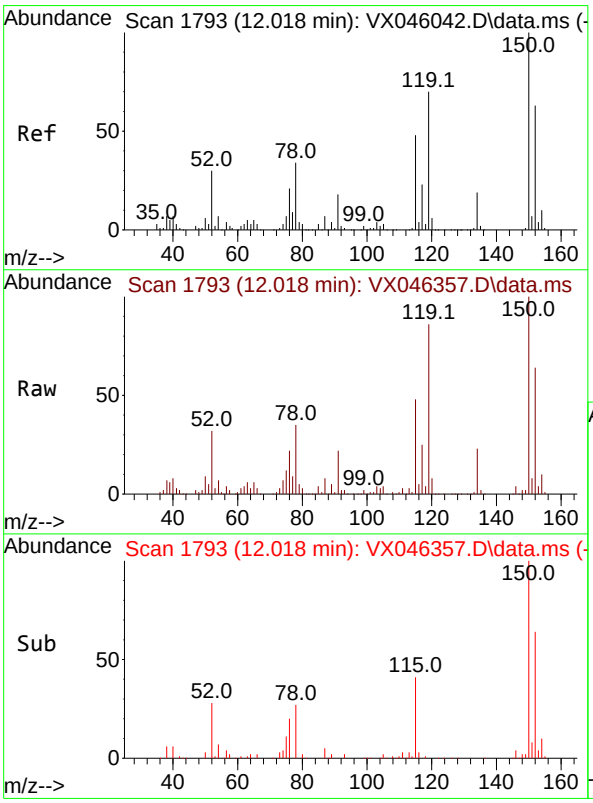
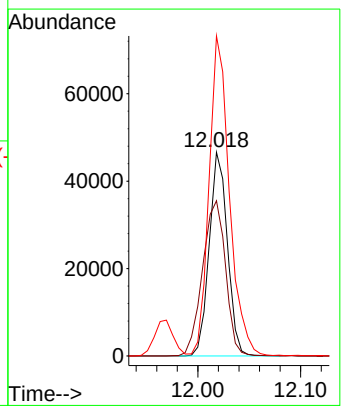
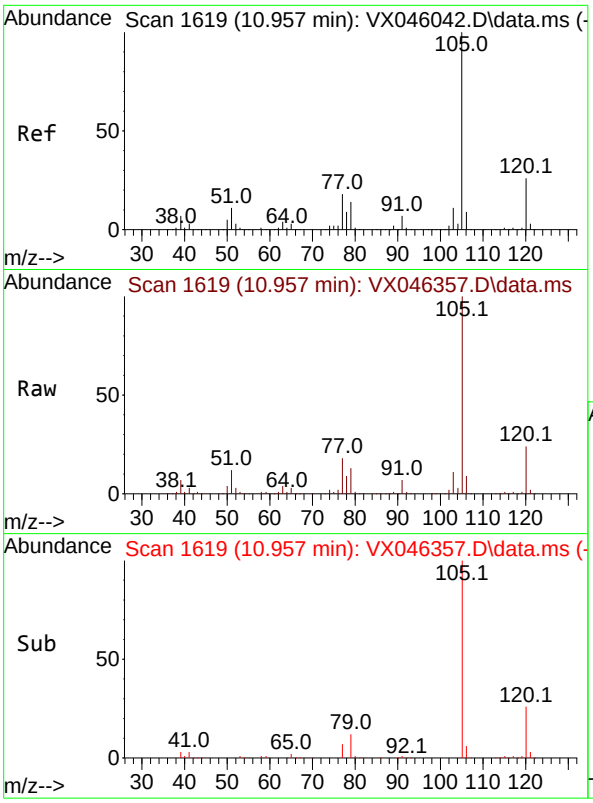


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion:152 Resp: 57270

Ion	Ratio	Lower	Upper
152	100		
115	96.6	46.9	140.7
150	175.6	0.0	351.0

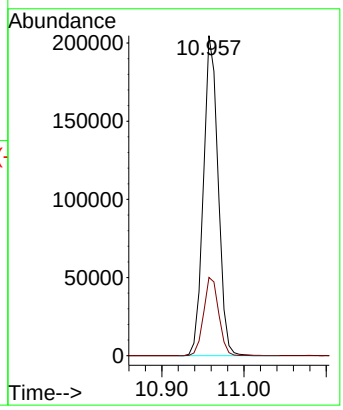




#73
Isopropylbenzene
Concen: 57.069 ug/l
RT: 10.957 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion:105 Resp: 25445

Ion	Ratio	Lower	Upper
105	100		
120	25.2	12.8	38.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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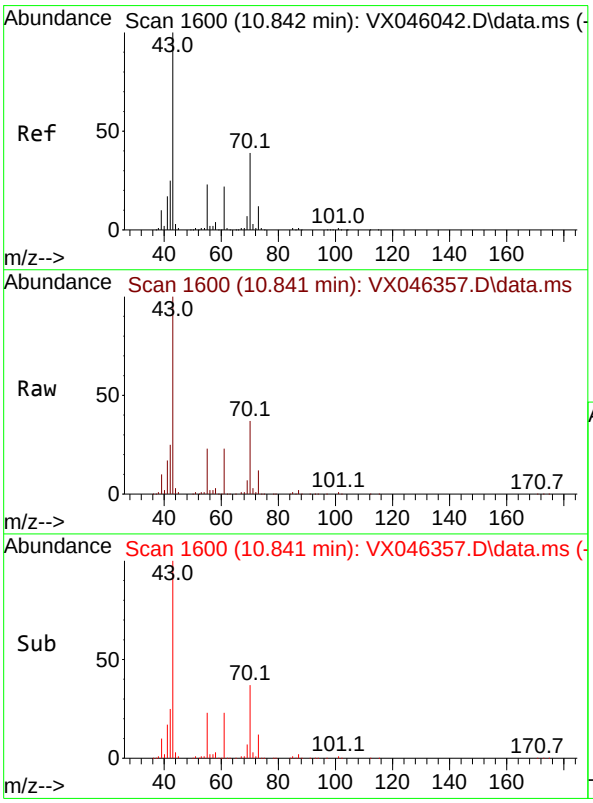
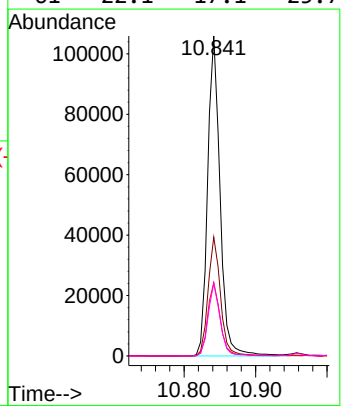
Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025

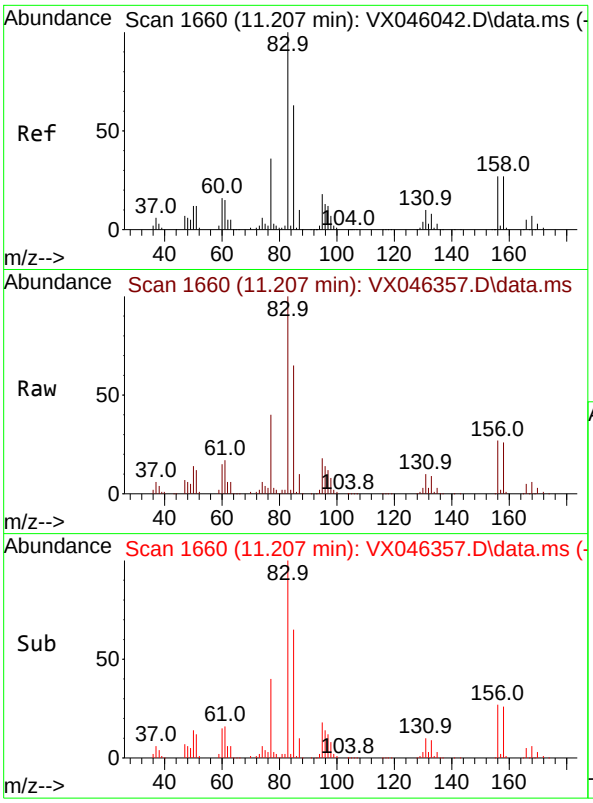


#74
N-amyl acetate
Concen: 57.930 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 43 Resp: 127633

Ion	Ratio	Lower	Upper
43	100		
70	37.3	30.9	46.3
55	23.3	18.7	28.1
61	22.1	17.1	25.7





#75
1,1,2,2-Tetrachloroethane
Concen: 53.916 ug/l
RT: 11.207 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 83 Resp: 8424

Ion	Ratio	Lower	Upper
83	100		
131	9.9	5.0	14.9
85	65.6	31.9	95.7

Instrument :
MSVOA_X
ClientSampleId :
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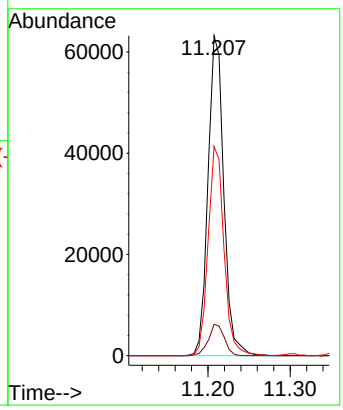
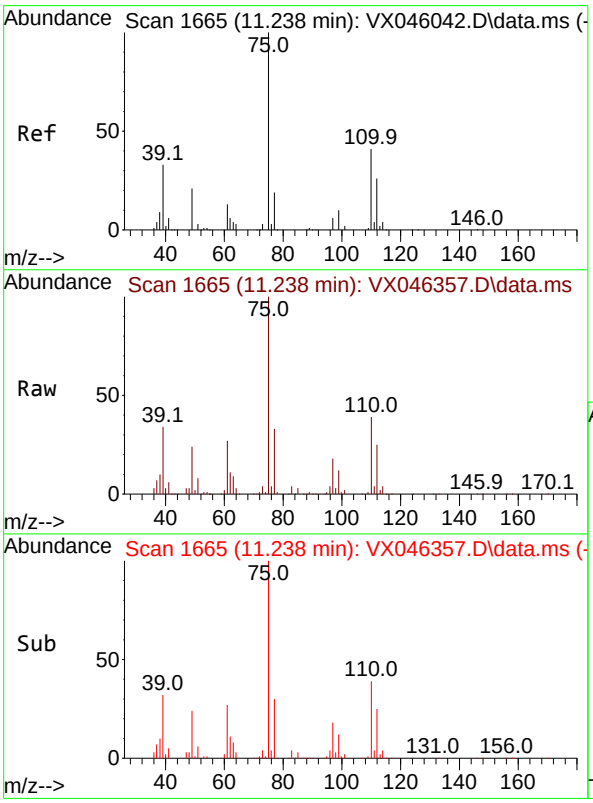
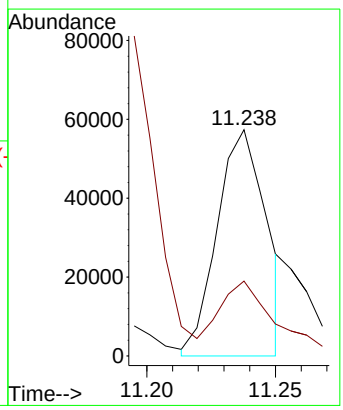


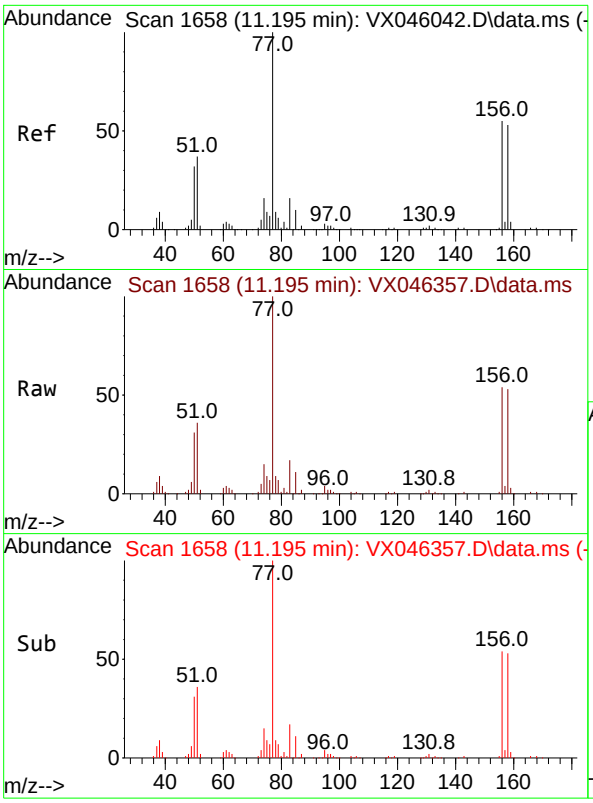


#76
1,2,3-Trichloropropane
Concen: 55.197 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 75 Resp: 76090

Ion	Ratio	Lower	Upper
75	100		
77	38.6	20.5	61.5

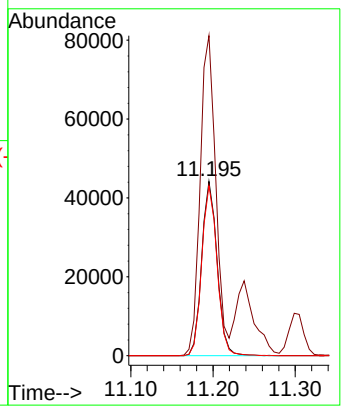




#77
Bromobenzene
Concen: 55.529 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion:156 Resp: 5748

Ion	Ratio	Lower	Upper
156	100		
77	186.8	92.8	278.3
158	97.1	48.8	146.3



Instrument :
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ClientSampleId :
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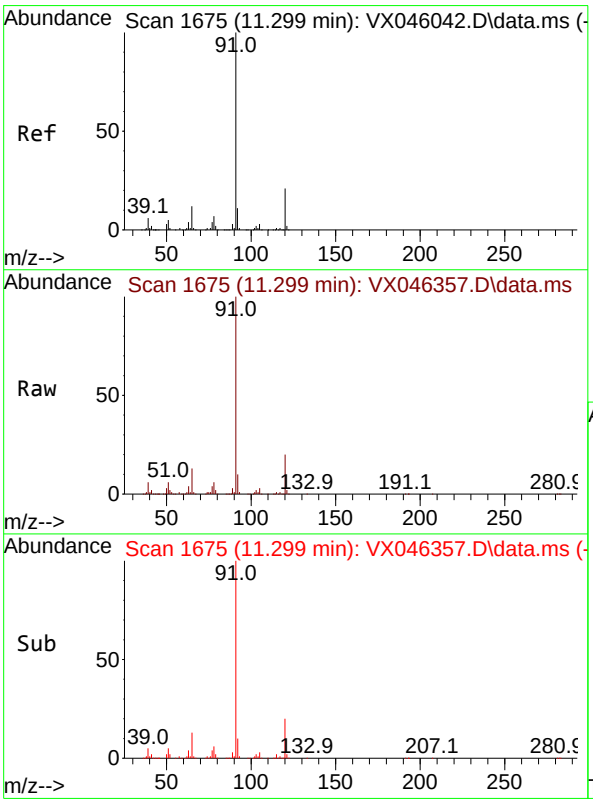
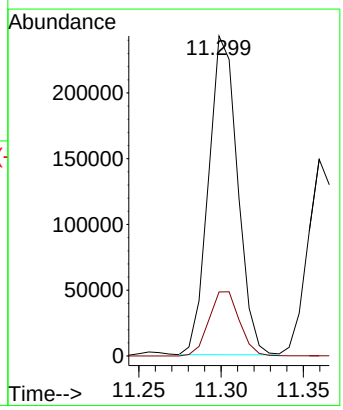
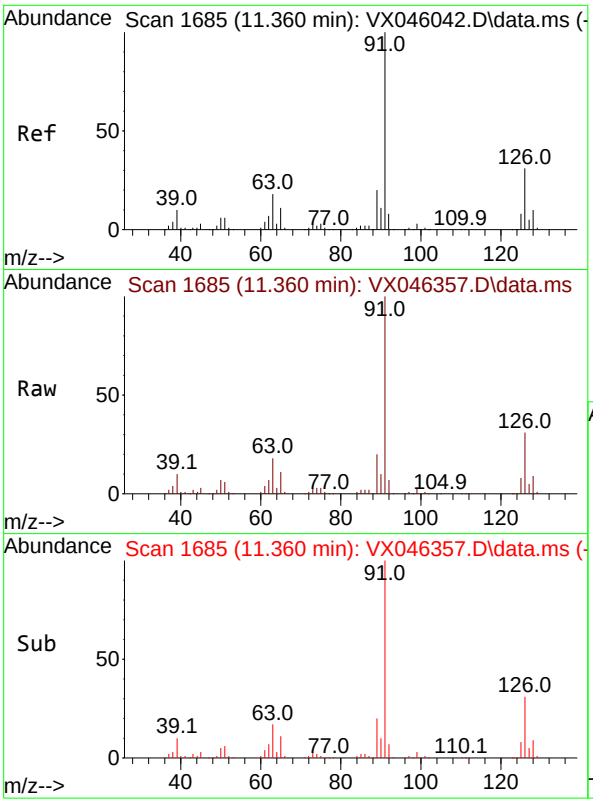


#78
n-propylbenzene
Concen: 57.482 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 91 Resp: 298001

Ion	Ratio	Lower	Upper
91	100		
120	21.2	10.8	32.4





#79
2-Chlorotoluene
Concen: 54.791 ug/l
RT: 11.360 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 91 Resp: 18321

Ion	Ratio	Lower	Upper
91	100		
126	31.5	15.6	46.7

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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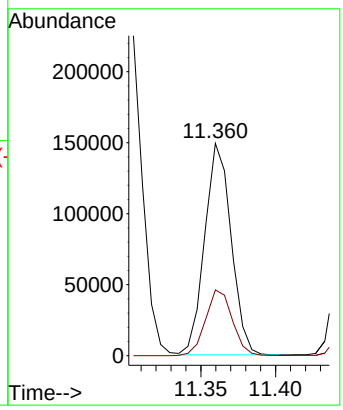
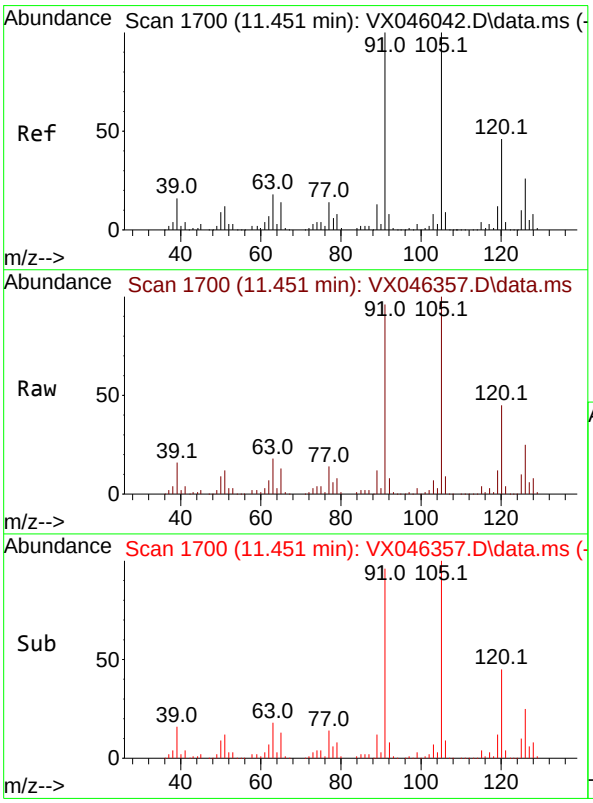
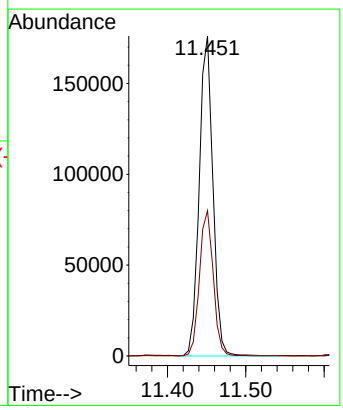


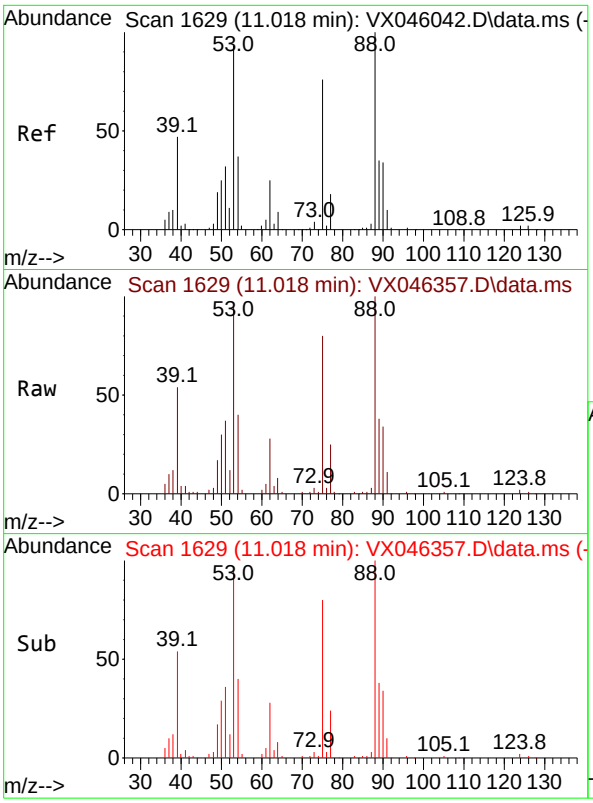


#80
1,3,5-Trimethylbenzene
Concen: 57.551 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion:105 Resp: 214369

Ion	Ratio	Lower	Upper
105	100		
120	45.5	23.1	69.2





#81
trans-1,4-Dichloro-2-butene
Concen: 52.265 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 75 Resp: 2213

Ion	Ratio	Lower	Upper
75	100		
53	128.1	100.5	150.7
89	47.0	37.0	55.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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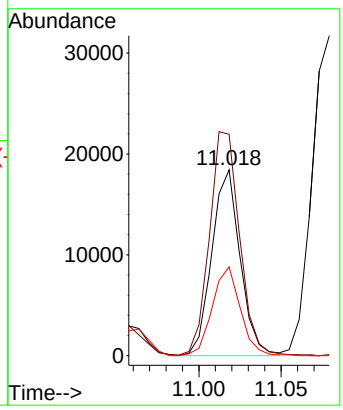
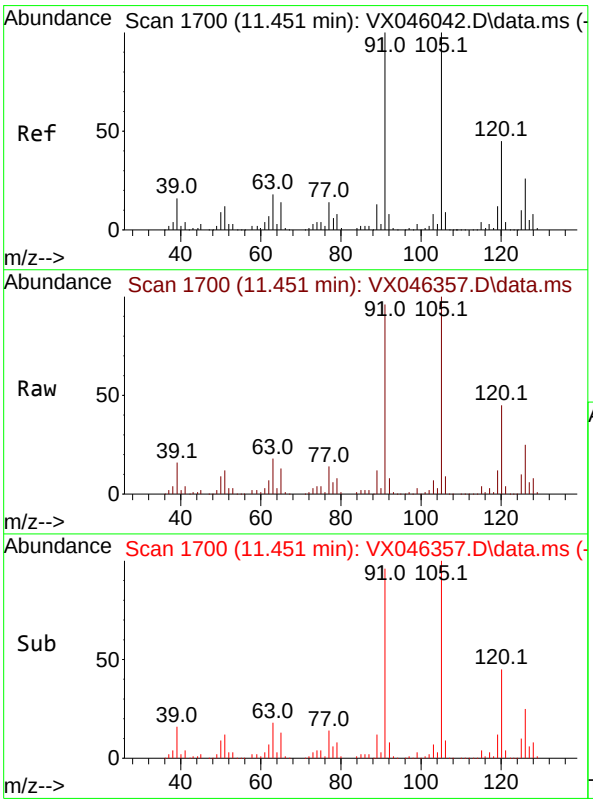
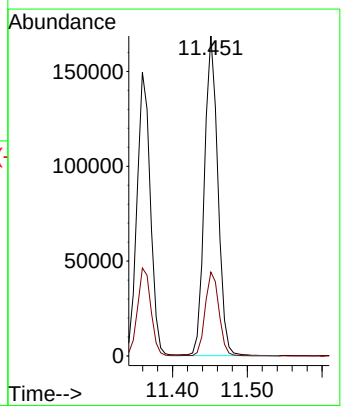


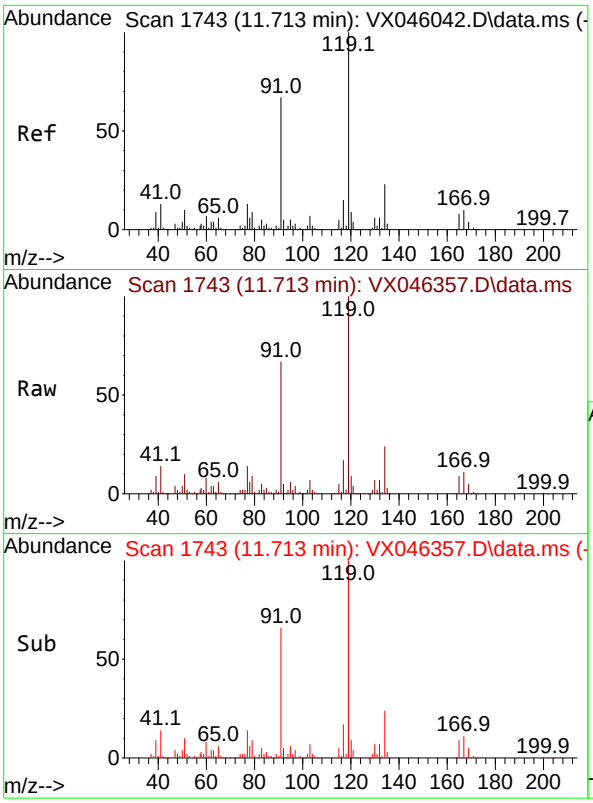


#82
4-Chlorotoluene
Concen: 56.611 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 91 Resp: 209928

Ion	Ratio	Lower	Upper
91	100		
126	26.9	13.3	39.8

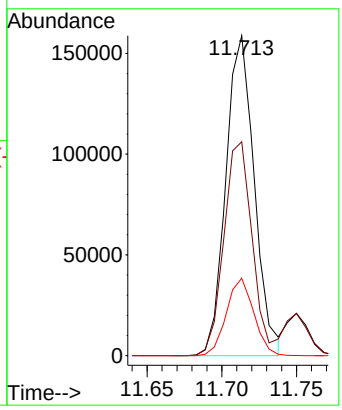




#83
tert-Butylbenzene
Concen: 56.156 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion:119 Resp: 21069

Ion	Ratio	Lower	Upper
119	100		
91	65.7	32.9	98.7
134	23.2	11.4	34.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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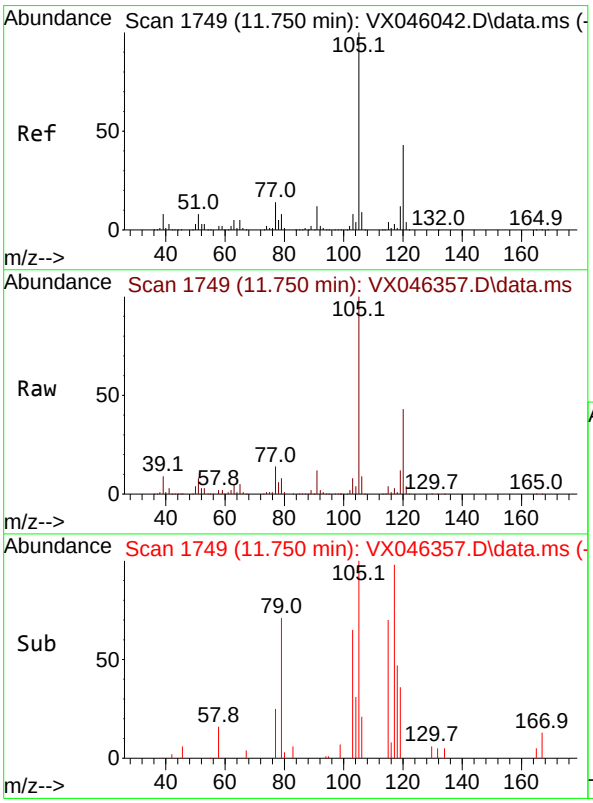
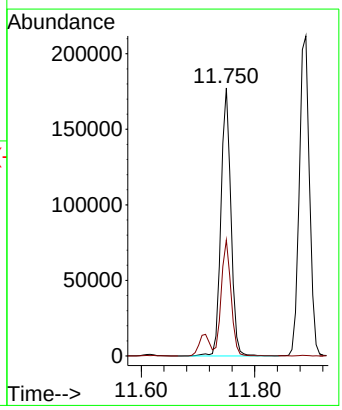
Supervised By :Mahesh Dadoda 05/26/2025

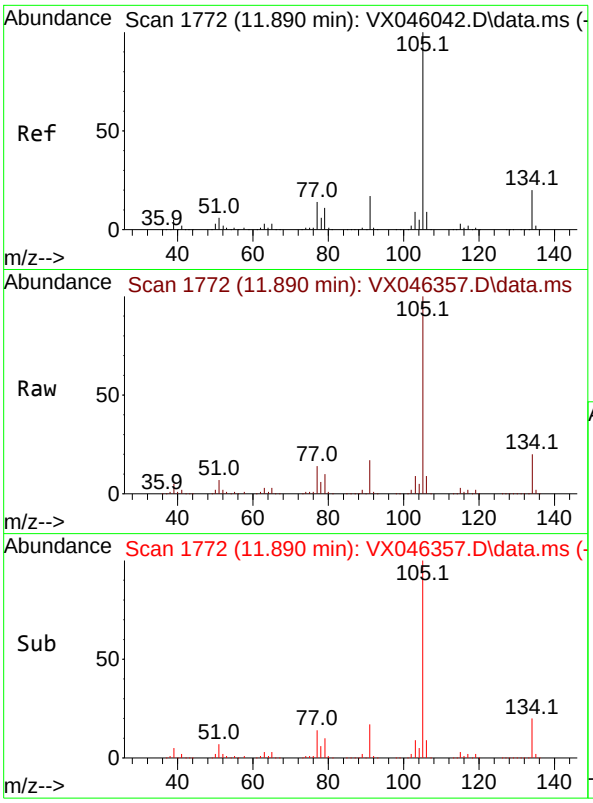


#84
1,2,4-Trimethylbenzene
Concen: 57.033 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion:105 Resp: 215135

Ion	Ratio	Lower	Upper
105	100		
120	42.4	21.2	63.6





#85
sec-Butylbenzene
Concen: 57.092 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion:105 Resp: 26301

Ion	Ratio	Lower	Upper
105	100		
134	19.4	9.7	29.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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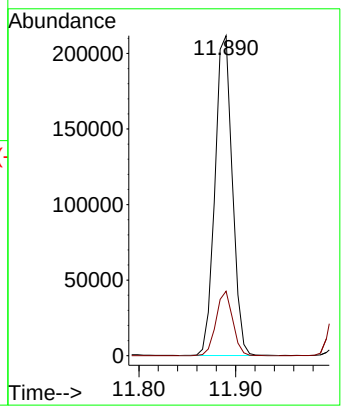
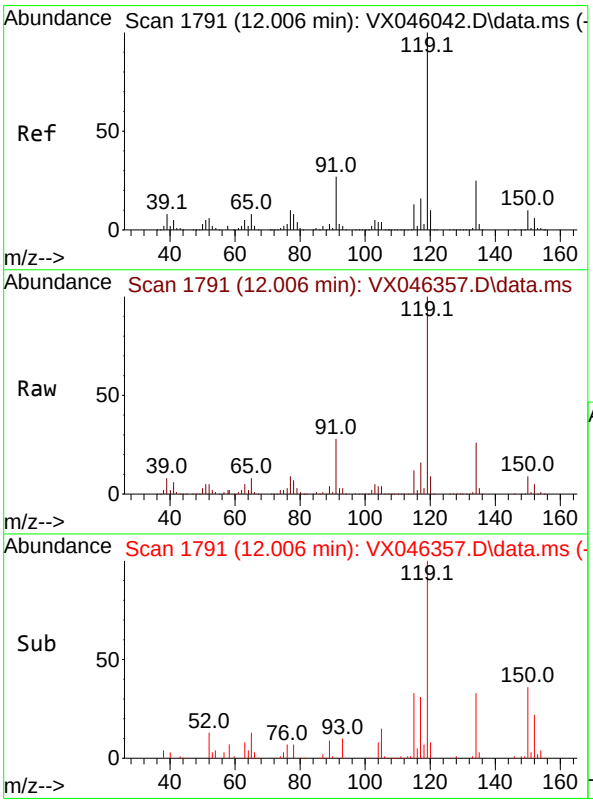
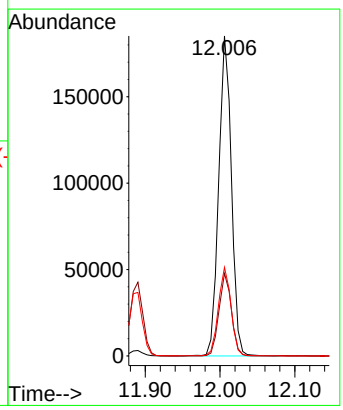


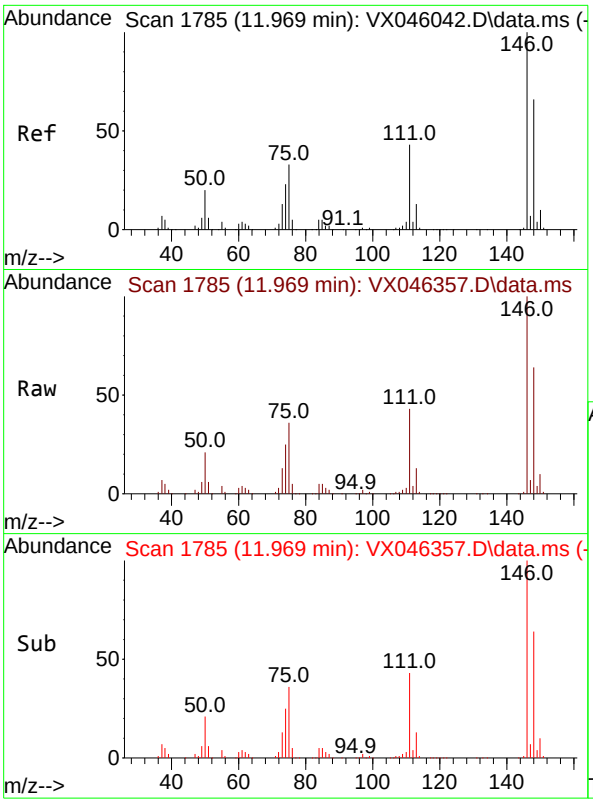


#86
p-Isopropyltoluene
Concen: 57.375 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion:119 Resp: 218175

Ion	Ratio	Lower	Upper
119	100		
134	25.4	12.5	37.5
91	27.5	13.8	41.4

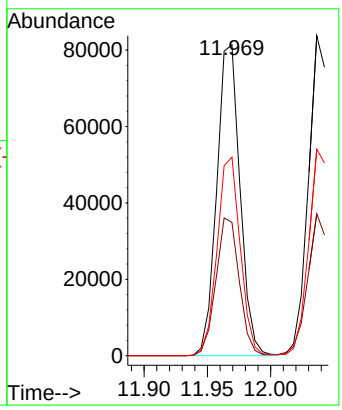




#87
1,3-Dichlorobenzene
Concen: 55.082 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion:146 Resp: 10405

Ion	Ratio	Lower	Upper
146	100		
111	44.5	22.1	66.3
148	63.6	32.1	96.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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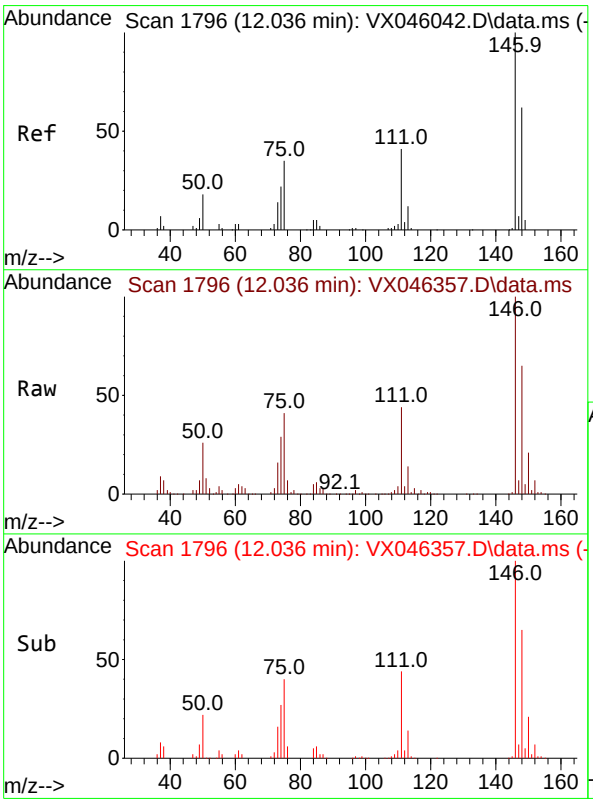
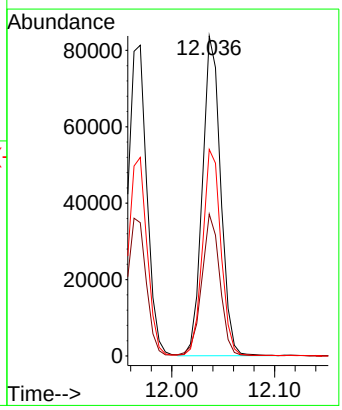
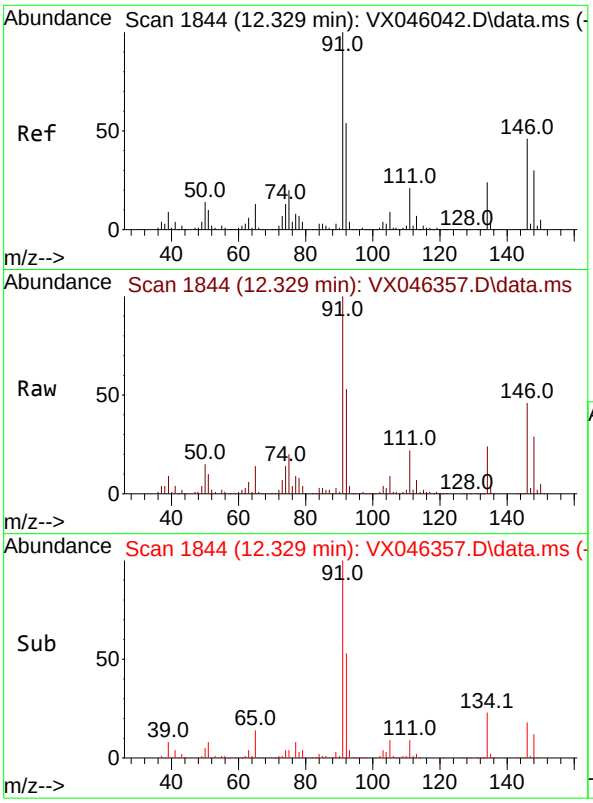


#88
1,4-Dichlorobenzene
Concen: 53.479 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion:146 Resp: 103178

Ion	Ratio	Lower	Upper
146	100		
111	44.0	21.3	63.9
148	65.0	31.9	95.5

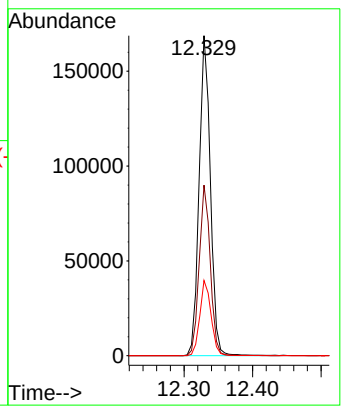




#89
n-Butylbenzene
Concen: 57.905 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 91 Resp: 19314

Ion	Ratio	Lower	Upper
91	100		
92	52.5	26.9	80.7
134	23.5	11.8	35.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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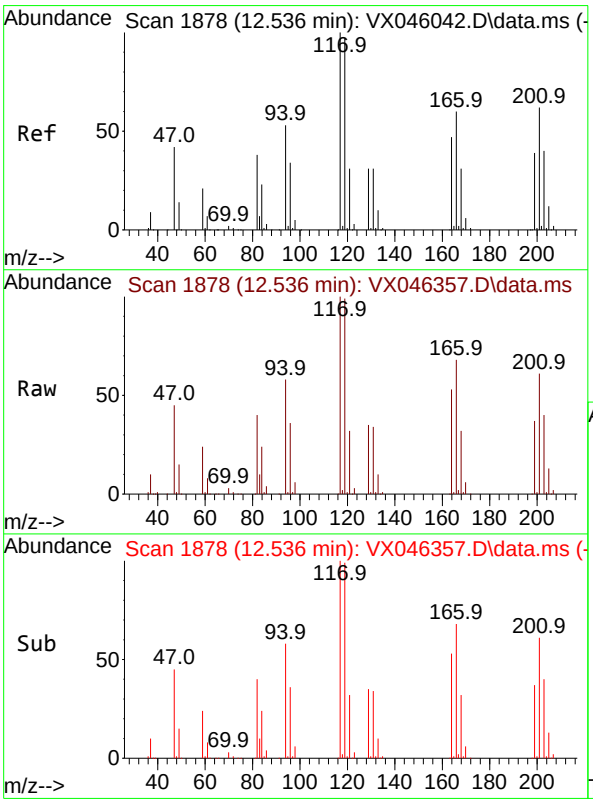
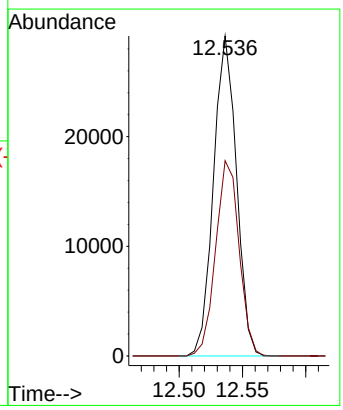
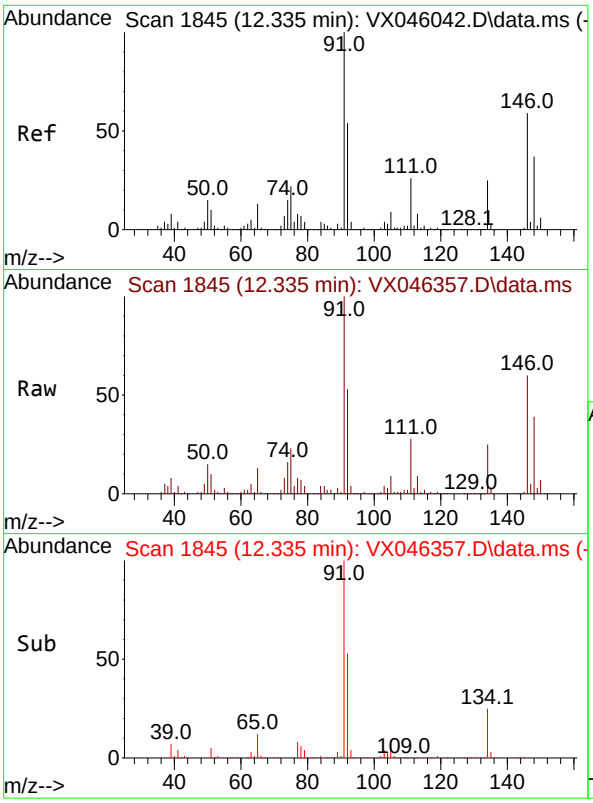


#90
Hexachloroethane
Concen: 54.879 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion:117 Resp: 36765

Ion	Ratio	Lower	Upper
117	100		
201	62.4	31.6	94.7

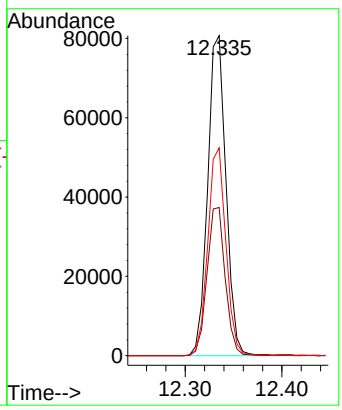




#91
1,2-Dichlorobenzene
Concen: 56.008 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion:146 Resp: 10617

Ion	Ratio	Lower	Upper
146	100		
111	46.1	22.4	67.3
148	64.2	31.6	94.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

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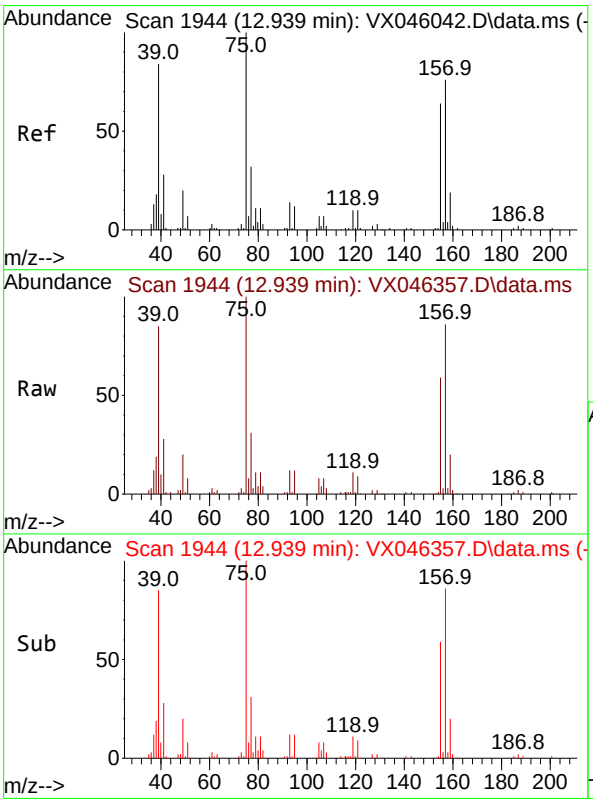
APPROVED

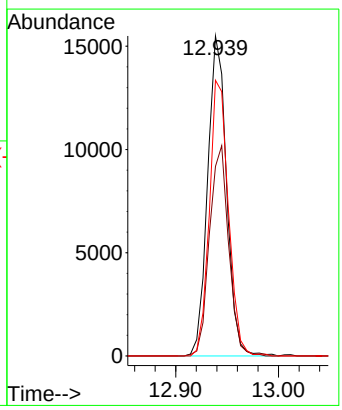
Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025

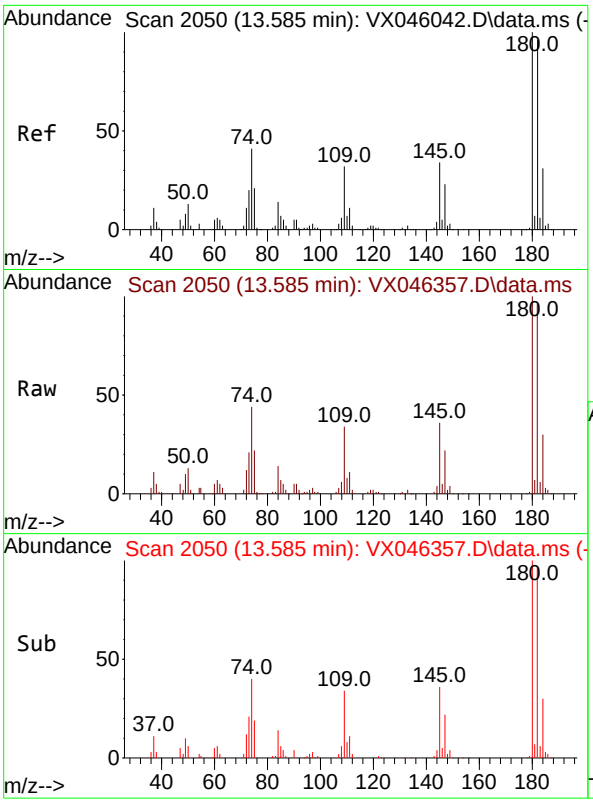


#92
1,2-Dibromo-3-Chloropropane
Concen: 57.261 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 75 Resp: 19820

Ion	Ratio	Lower	Upper
75	100		
155	66.4	34.9	104.8
157	86.6	43.8	131.4





#93
1,2,4-Trichlorobenzene
Concen: 53.962 ug/l
RT: 13.585 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

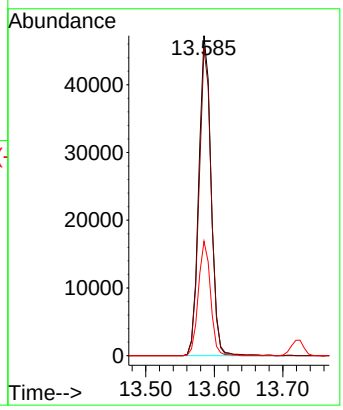
Tgt Ion:180 Resp: 5875

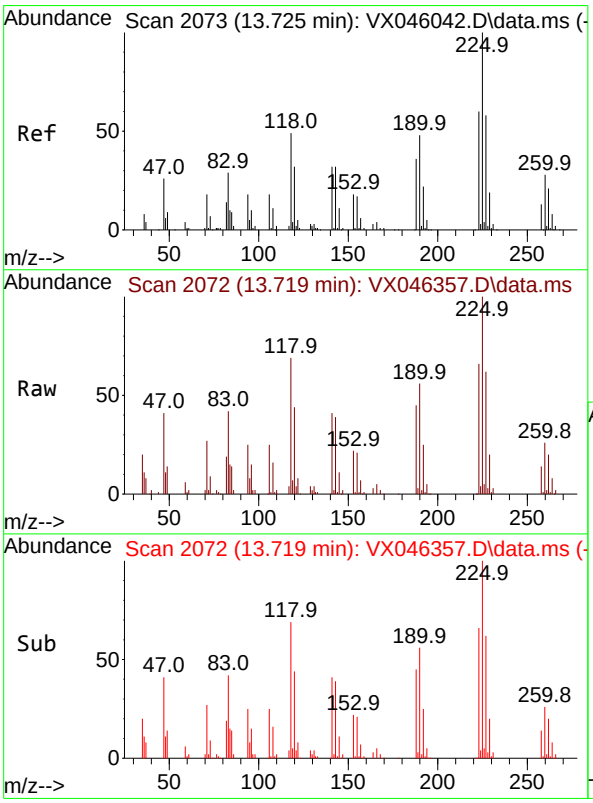
Ion	Ratio	Lower	Upper
180	100		
182	95.6	47.9	143.8
145	35.4	17.1	51.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025

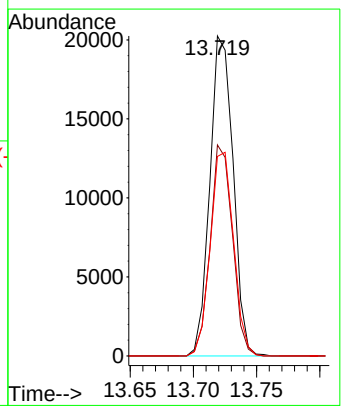


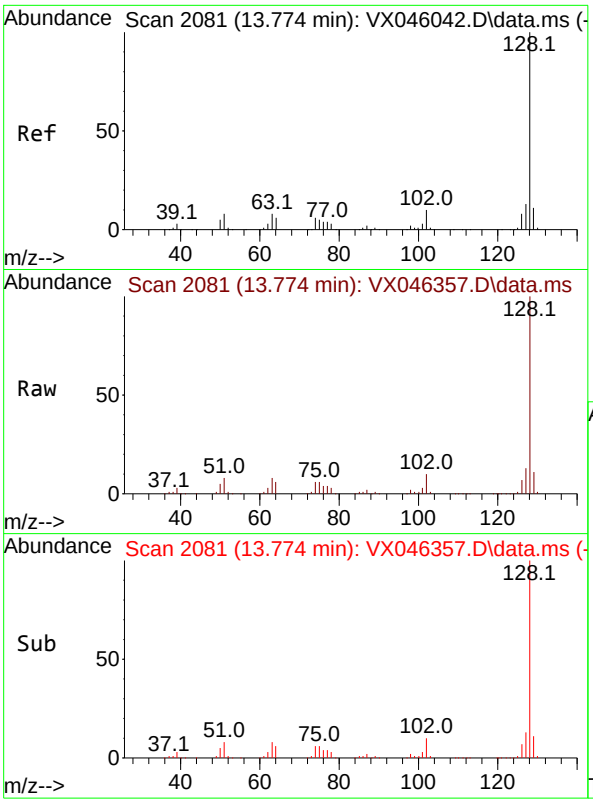


#94
Hexachlorobutadiene
Concen: 54.428 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. -0.006 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion:225 Resp: 25883

Ion	Ratio	Lower	Upper
225	100		
223	63.2	30.8	92.4
227	63.8	30.9	92.7

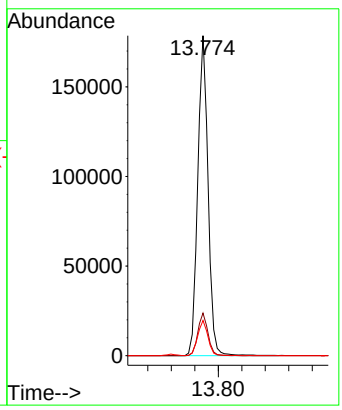




#95
Naphthalene
Concen: 54.381 ug/l
RT: 13.774 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion:128 Resp: 21717

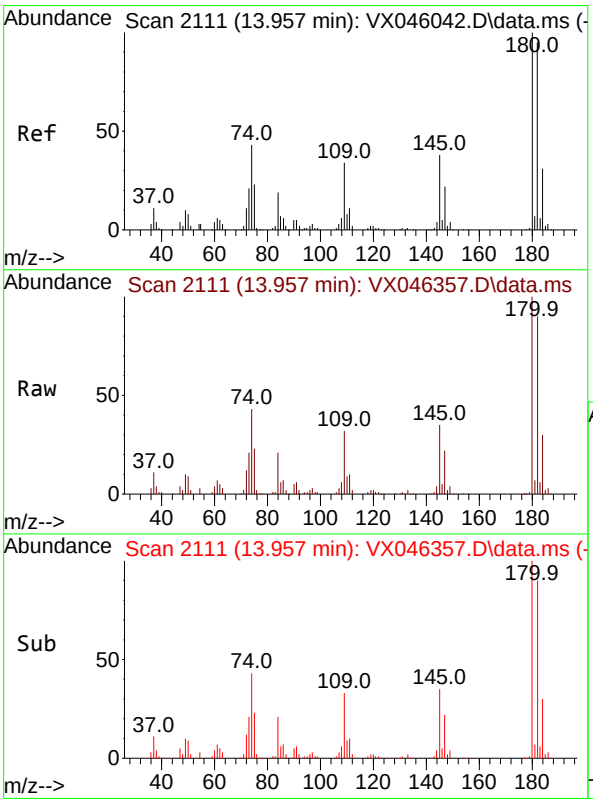
Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.4	15.6
129	11.0	8.6	13.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

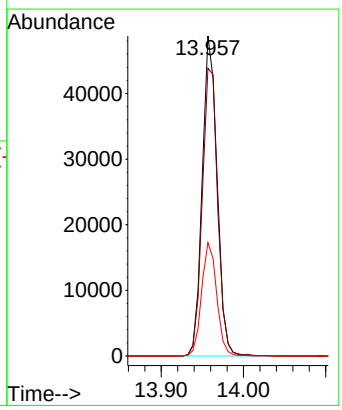
Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025



#96
1,2,3-Trichlorobenzene
Concen: 54.454 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion:180 Resp: 61179

Ion	Ratio	Lower	Upper
180	100		
182	93.6	47.8	143.3
145	35.9	18.1	54.3



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046357.D
Acq On : 23 May 2025 19:55
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: May 23 23:08:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	79	0.00
2	T	Dichlorodifluoromethane	0.765	0.847	-10.7	78	0.00
3	P	Chloromethane	0.742	0.828	-11.6	85	0.00
4	C	Vinyl Chloride	0.691	0.742	-7.4#	83	0.00
5	T	Bromomethane	0.320	0.337	-5.3	82	0.00
6	T	Chloroethane	0.369	0.428	-16.0	90	0.00
7	T	Trichlorofluoromethane	1.021	1.173	-14.9	87	0.00
8	T	Diethyl Ether	0.347	0.377	-8.6	89	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.632	0.715	-13.1	88	0.00
10	T	Methyl Iodide	0.747	0.853	-14.2	84	0.00
11	T	Tert butyl alcohol	0.131	0.143	-9.2	88	0.00
12	CM	1,1-Dichloroethene	0.593	0.657	-10.8#	87	0.00
13	T	Acrolein	0.149	0.183	-22.8	95	0.00
14	T	Allyl chloride	1.133	1.311	-15.7	88	0.00
15	T	Acrylonitrile	0.374	0.450	-20.3	92	0.00
16	T	Acetone	0.374	0.428	-14.4	94	0.00
17	T	Carbon Disulfide	1.406	1.429	-1.6	78	0.00
18	T	Methyl Acetate	0.867	1.179	-36.0#	110	0.00
19	T	Methyl tert-butyl Ether	2.079	2.383	-14.6	87	0.00
20	T	Methylene Chloride	0.716	0.774	-8.1	90	0.00
21	T	trans-1,2-Dichloroethene	0.596	0.665	-11.6	86	0.00
22	T	Diisopropyl ether	2.189	2.611	-19.3	91	0.00
23	T	Vinyl Acetate	1.925	2.245	-16.6	87	0.00
24	P	1,1-Dichloroethane	1.219	1.413	-15.9	89	0.00
25	T	2-Butanone	0.543	0.643	-18.4	92	0.00
26	T	2,2-Dichloropropane	0.954	0.918	3.8	76	0.00
27	T	cis-1,2-Dichloroethene	0.718	0.826	-15.0	89	0.00
28	T	Bromochloromethane	0.587	0.678	-15.5	93	0.00
29	T	Tetrahydrofuran	0.340	0.402	-18.2	91	0.00
30	C	Chloroform	1.271	1.489	-17.2#	91	0.00
31	T	Cyclohexane	1.111	1.236	-11.3	87	0.00
32	T	1,1,1-Trichloroethane	1.101	1.253	-13.8	88	0.00
33	S	1,2-Dichloroethane-d4	0.932	0.992	-6.4	86	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	80	0.00
35	S	Dibromofluoromethane	0.360	0.392	-8.9	88	0.00
36	T	1,1-Dichloropropene	0.484	0.539	-11.4	87	0.00
37	T	Ethyl Acetate	0.598	0.690	-15.4	90	0.00
38	T	Carbon Tetrachloride	0.544	0.614	-12.9	88	0.00
39	T	Methylcyclohexane	0.623	0.674	-8.2	84	0.00
40	TM	Benzene	1.417	1.650	-16.4	89	0.00
41	T	Methacrylonitrile	0.313	0.406	-29.7#	94	0.00
42	TM	1,2-Dichloroethane	0.612	0.717	-17.2	91	0.00
43	T	Isopropyl Acetate	0.912	1.078	-18.2	89	0.00
44	TM	Trichloroethene	0.341	0.379	-11.1	85	0.00
45	C	1,2-Dichloropropane	0.352	0.422	-19.9#	91	0.00
46	T	Dibromomethane	0.278	0.322	-15.8	89	0.00
47	T	Bromodichloromethane	0.547	0.652	-19.2	90	0.00
48	T	Methyl methacrylate	0.466	0.572	-22.7	91	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046357.D
Acq On : 23 May 2025 19:55
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: May 23 23:08:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.009	0.010	-11.1	90	0.00
50	S	Toluene-d8	1.246	1.306	-4.8	85	0.00
51	T	4-Methyl-2-Pentanone	0.605	0.739	-22.1	93	0.00
52	CM	Toluene	0.869	1.003	-15.4#	89	0.00
53	T	t-1,3-Dichloropropene	0.487	0.559	-14.8	84	0.00
54	T	cis-1,3-Dichloropropene	0.538	0.614	-14.1	85	0.00
55	T	1,1,2-Trichloroethane	0.343	0.411	-19.8	93	0.00
56	T	Ethyl methacrylate	0.546	0.667	-22.2	89	0.00
57	T	1,3-Dichloropropane	0.615	0.713	-15.9	91	0.00
58	T	2-Chloroethyl Vinyl ether	0.278	0.323	-16.2	84	0.00
59	T	2-Hexanone	0.448	0.551	-23.0	93	0.00
60	T	Dibromochloromethane	0.376	0.451	-19.9	90	0.00
61	T	1,2-Dibromoethane	0.356	0.411	-15.4	88	0.00
62	S	4-Bromofluorobenzene	0.478	0.512	-7.1	87	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	82	0.00
64	T	Tetrachloroethene	0.354	0.391	-10.5	85	0.00
65	PM	Chlorobenzene	1.094	1.215	-11.1	91	0.00
66	T	1,1,1,2-Tetrachloroethane	0.374	0.425	-13.6	89	0.00
67	C	Ethyl Benzene	1.929	2.216	-14.9#	90	0.00
68	T	m/p-Xylenes	0.706	0.808	-14.4	89	0.00
69	T	o-Xylene	0.688	0.787	-14.4	89	0.00
70	T	Styrene	1.127	1.347	-19.5	90	0.00
71	P	Bromoform	0.281	0.310	-10.3	84	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	84	0.00
73	T	Isopropylbenzene	3.893	4.443	-14.1	91	0.00
74	T	N-amyl acetate	1.924	2.229	-15.9	91	0.00
75	P	1,1,2,2-Tetrachloroethane	1.364	1.471	-7.8	93	0.00
76	T	1,2,3-Trichloropropane	1.204	1.329	-10.4	94	0.00
77	T	Bromobenzene	0.904	1.004	-11.1	91	0.00
78	T	n-propylbenzene	4.526	5.203	-15.0	90	0.00
79	T	2-Chlorotoluene	2.919	3.199	-9.6	90	0.00
80	T	1,3,5-Trimethylbenzene	3.252	3.743	-15.1	90	0.00
81	T	trans-1,4-Dichloro-2-butene	0.370	0.386	-4.3	85	0.00
82	T	4-Chlorotoluene	3.238	3.666	-13.2	90	0.00
83	T	tert-Butylbenzene	3.276	3.679	-12.3	90	0.00
84	T	1,2,4-Trimethylbenzene	3.293	3.757	-14.1	90	0.00
85	T	sec-Butylbenzene	4.022	4.593	-14.2	90	0.00
86	T	p-Isopropyltoluene	3.320	3.810	-14.8	90	0.00
87	T	1,3-Dichlorobenzene	1.649	1.817	-10.2	90	0.00
88	T	1,4-Dichlorobenzene	1.684	1.802	-7.0	90	0.00
89	T	n-Butylbenzene	2.912	3.373	-15.8	90	0.00
90	T	Hexachloroethane	0.585	0.642	-9.7	87	0.00
91	T	1,2-Dichlorobenzene	1.655	1.854	-12.0	92	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.302	0.346	-14.6	90	0.00
93	T	1,2,4-Trichlorobenzene	0.951	1.026	-7.9	88	0.00
94	T	Hexachlorobutadiene	0.415	0.452	-8.9	89	0.00
95	T	Naphthalene	3.487	3.792	-8.7	88	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046357.D
Acq On : 23 May 2025 19:55
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: May 23 23:08:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.981	1.068	-8.9	88	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046357.D
Acq On : 23 May 2025 19:55
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: May 23 23:08:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	79	0.00
2	T	Dichlorodifluoromethane	50.000	55.362	-10.7	78	0.00
3	P	Chloromethane	50.000	55.785	-11.6	85	0.00
4	C	Vinyl Chloride	50.000	53.745	-7.5#	83	0.00
5	T	Bromomethane	50.000	52.657	-5.3	82	0.00
6	T	Chloroethane	50.000	58.018	-16.0	90	0.00
7	T	Trichlorofluoromethane	50.000	57.436	-14.9	87	0.00
8	T	Diethyl Ether	50.000	54.212	-8.4	89	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	56.611	-13.2	88	0.00
10	T	Methyl Iodide	50.000	57.072	-14.1	84	0.00
11	T	Tert butyl alcohol	250.000	273.720	-9.5	88	0.00
12	CM	1,1-Dichloroethene	50.000	55.394	-10.8#	87	0.00
13	T	Acrolein	250.000	306.348	-22.5	95	0.00
14	T	Allyl chloride	50.000	57.856	-15.7	88	0.00
15	T	Acrylonitrile	250.000	300.729	-20.3	92	0.00
16	T	Acetone	250.000	286.251	-14.5	94	0.00
17	T	Carbon Disulfide	50.000	50.829	-1.7	78	0.00
18	T	Methyl Acetate	50.000	67.998	-36.0#	110	0.00
19	T	Methyl tert-butyl Ether	50.000	57.333	-14.7	87	0.00
20	T	Methylene Chloride	50.000	54.030	-8.1	90	0.00
21	T	trans-1,2-Dichloroethene	50.000	55.755	-11.5	86	0.00
22	T	Diisopropyl ether	50.000	59.639	-19.3	91	0.00
23	T	Vinyl Acetate	250.000	291.539	-16.6	87	0.00
24	P	1,1-Dichloroethane	50.000	57.974	-15.9	89	0.00
25	T	2-Butanone	250.000	296.078	-18.4	92	0.00
26	T	2,2-Dichloropropane	50.000	48.116	3.8	76	0.00
27	T	cis-1,2-Dichloroethene	50.000	57.522	-15.0	89	0.00
28	T	Bromochloromethane	50.000	57.760	-15.5	93	0.00
29	T	Tetrahydrofuran	250.000	295.465	-18.2	91	0.00
30	C	Chloroform	50.000	58.573	-17.1#	91	0.00
31	T	Cyclohexane	50.000	55.632	-11.3	87	0.00
32	T	1,1,1-Trichloroethane	50.000	56.869	-13.7	88	0.00
33	S	1,2-Dichloroethane-d4	50.000	53.222	-6.4	86	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	80	0.00
35	S	Dibromofluoromethane	50.000	54.480	-9.0	88	0.00
36	T	1,1-Dichloropropene	50.000	55.684	-11.4	87	0.00
37	T	Ethyl Acetate	50.000	57.707	-15.4	90	0.00
38	T	Carbon Tetrachloride	50.000	56.496	-13.0	88	0.00
39	T	Methylcyclohexane	50.000	54.143	-8.3	84	0.00
40	TM	Benzene	50.000	58.216	-16.4	89	0.00
41	T	Methacrylonitrile	50.000	64.894	-29.8#	94	0.00
42	TM	1,2-Dichloroethane	50.000	58.585	-17.2	91	0.00
43	T	Isopropyl Acetate	50.000	59.095	-18.2	89	0.00
44	TM	Trichloroethene	50.000	55.577	-11.2	85	0.00
45	C	1,2-Dichloropropane	50.000	59.869	-19.7#	91	0.00
46	T	Dibromomethane	50.000	57.908	-15.8	89	0.00
47	T	Bromodichloromethane	50.000	59.530	-19.1	90	0.00
48	T	Methyl methacrylate	50.000	61.388	-22.8	91	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046357.D
Acq On : 23 May 2025 19:55
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: May 23 23:08:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	1156.492	-15.6	90	0.00
50	S	Toluene-d8	50.000	52.406	-4.8	85	0.00
51	T	4-Methyl-2-Pentanone	250.000	305.280	-22.1	93	0.00
52	CM	Toluene	50.000	57.742	-15.5#	89	0.00
53	T	t-1,3-Dichloropropene	50.000	57.441	-14.9	84	0.00
54	T	cis-1,3-Dichloropropene	50.000	57.117	-14.2	85	0.00
55	T	1,1,2-Trichloroethane	50.000	60.037	-20.1	93	0.00
56	T	Ethyl methacrylate	50.000	61.050	-22.1	89	0.00
57	T	1,3-Dichloropropane	50.000	57.929	-15.9	91	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	290.480	-16.2	84	0.00
59	T	2-Hexanone	250.000	307.441	-23.0	93	0.00
60	T	Dibromochloromethane	50.000	59.883	-19.8	90	0.00
61	T	1,2-Dibromoethane	50.000	57.641	-15.3	88	0.00
62	S	4-Bromofluorobenzene	50.000	53.512	-7.0	87	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	82	0.00
64	T	Tetrachloroethene	50.000	55.224	-10.4	85	0.00
65	PM	Chlorobenzene	50.000	55.532	-11.1	91	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	56.915	-13.8	89	0.00
67	C	Ethyl Benzene	50.000	57.440	-14.9#	90	0.00
68	T	m/p-Xylenes	100.000	114.503	-14.5	89	0.00
69	T	o-Xylene	50.000	57.235	-14.5	89	0.00
70	T	Styrene	50.000	59.760	-19.5	90	0.00
71	P	Bromoform	50.000	55.274	-10.5	84	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	84	0.00
73	T	Isopropylbenzene	50.000	57.069	-14.1	91	0.00
74	T	N-amyl acetate	50.000	57.930	-15.9	91	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	53.916	-7.8	93	0.00
76	T	1,2,3-Trichloropropane	50.000	55.197	-10.4	94	0.00
77	T	Bromobenzene	50.000	55.529	-11.1	91	0.00
78	T	n-propylbenzene	50.000	57.482	-15.0	90	0.00
79	T	2-Chlorotoluene	50.000	54.791	-9.6	90	0.00
80	T	1,3,5-Trimethylbenzene	50.000	57.551	-15.1	90	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	52.265	-4.5	85	0.00
82	T	4-Chlorotoluene	50.000	56.611	-13.2	90	0.00
83	T	tert-Butylbenzene	50.000	56.156	-12.3	90	0.00
84	T	1,2,4-Trimethylbenzene	50.000	57.033	-14.1	90	0.00
85	T	sec-Butylbenzene	50.000	57.092	-14.2	90	0.00
86	T	p-Isopropyltoluene	50.000	57.375	-14.8	90	0.00
87	T	1,3-Dichlorobenzene	50.000	55.082	-10.2	90	0.00
88	T	1,4-Dichlorobenzene	50.000	53.479	-7.0	90	0.00
89	T	n-Butylbenzene	50.000	57.905	-15.8	90	0.00
90	T	Hexachloroethane	50.000	54.879	-9.8	87	0.00
91	T	1,2-Dichlorobenzene	50.000	56.008	-12.0	92	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	57.261	-14.5	90	0.00
93	T	1,2,4-Trichlorobenzene	50.000	53.962	-7.9	88	0.00
94	T	Hexachlorobutadiene	50.000	54.428	-8.9	89	0.00
95	T	Naphthalene	50.000	54.381	-8.8	88	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046357.D
Acq On : 23 May 2025 19:55
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: May 23 23:08:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	54.454	-8.9	88	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2118 SAS No.: Q2118 SDG No.: Q2118

Instrument ID: MSVOA_Y Calibration Date/Time: 05/23/2025 14:34

Lab File ID: VY022407.D Init. Calib. Date(s): 05/15/2025 05/15/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 09:46 11:47

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Chloromethane	1.097	1.312	0.1	19.6	20
Vinyl Chloride	1.226	1.569		27.98	20
Bromomethane	0.998	1.869		87.28	20
Chloroethane	0.763	1.174		53.87	20
Trichlorofluoromethane	1.241	1.446		16.52	20
1,1,2-Trichlorotrifluoroethane	0.539	0.598		10.95	20
1,1-Dichloroethene	0.535	0.580		8.41	20
Acetone	0.102	0.112		9.8	20
Carbon Disulfide	1.744	1.866		6.99	20
Methyl tert-butyl Ether	1.475	1.534		4	20
Methylene Chloride	0.662	0.610		-7.86	20
trans-1,2-Dichloroethene	0.590	0.629		6.61	20
1,1-Dichloroethane	1.106	1.138	0.1	2.89	20
2-Butanone	0.171	0.165		-3.51	20
Carbon Tetrachloride	0.509	0.543		6.68	20
cis-1,2-Dichloroethene	0.681	0.745		9.4	20
Chloroform	1.061	1.137		7.16	20
1,1,1-Trichloroethane	0.974	1.014		4.11	20
Methylcyclohexane	0.660	0.714		8.18	20
Benzene	1.457	1.555		6.73	20
1,2-Dichloroethane	0.394	0.407		3.3	20
Trichloroethene	0.362	0.386		6.63	20
1,2-Dichloropropane	0.351	0.363		3.42	20
Bromodichloromethane	0.492	0.522		6.1	20
4-Methyl-2-Pentanone	0.253	0.241		-4.74	20
Toluene	0.923	0.988		7.04	20
t-1,3-Dichloropropene	0.480	0.487		1.46	20
cis-1,3-Dichloropropene	0.550	0.574		4.36	20
1,1,2-Trichloroethane	0.243	0.261		7.41	20
2-Hexanone	0.170	0.166		-2.35	20
Dibromochloromethane	0.315	0.339		7.62	20
Tetrachloroethene	0.462	0.463		0.22	20
Chlorobenzene	1.128	1.192	0.3	5.67	20
Ethyl Benzene	2.113	2.220		5.06	20
m/p-Xylenes	0.796	0.846		6.28	20
o-Xylene	0.753	0.797		5.84	20
Styrene	1.270	1.334		5.04	20
Bromoform	0.209	0.212	0.1	1.43	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2118 SAS No.: Q2118 SDG No.: Q2118

Instrument ID: MSVOA_Y Calibration Date/Time: 05/23/2025 14:34

Lab File ID: VY022407.D Init. Calib. Date(s): 05/15/2025 05/15/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 09:46 11:47

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Isopropylbenzene	4.142	4.256		2.75	20
1,1,2,2-Tetrachloroethane	0.637	0.668	0.3	4.87	20
1,3-Dichlorobenzene	1.806	1.855		2.71	20
1,4-Dichlorobenzene	1.737	1.766		1.67	20
1,2-Dichlorobenzene	1.517	1.547		1.98	20
1,2-Dichloroethane-d4	0.546	0.475		-13	20
Dibromofluoromethane	0.298	0.280		-6.04	20
Toluene-d8	1.222	1.060		-13.26	20
4-Bromofluorobenzene	0.387	0.334		-13.69	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022407.D
Acq On : 23 May 2025 14:34
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 23 23:19:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 05/27/2025
Supervised By :Semsettin Yesilyurt 05/27/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	7.719	168	221240	50.000	ug/l		0.01
34) 1,4-Difluorobenzene	8.622	114	368290	50.000	ug/l		0.00
63) Chlorobenzene-d5	11.420	117	319713	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	13.352	152	156128	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	8.073	65	105056	43.448	ug/l		0.01
Spiked Amount 50.000	Range 50 - 163		Recovery = 86.900%				
35) Dibromofluoromethane	7.640	113	103275	46.982	ug/l		0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 93.960%				
50) Toluene-d8	10.115	98	390436	43.369	ug/l		0.01
Spiked Amount 50.000	Range 58 - 134		Recovery = 86.740%				
62) 4-Bromofluorobenzene	12.414	95	123042	43.119	ug/l		0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 86.240%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.867	85	116968	50.667	ug/l		96
3) Chloromethane	2.074	50	290256	59.771	ug/l		98
4) Vinyl Chloride	2.208	62	347178	63.990	ug/l		100
5) Bromomethane	2.598	94	413446	93.610	ug/l		96
6) Chloroethane	2.738	64	259722	76.947	ug/l		95
7) Trichlorofluoromethane	3.055	101	319919	58.240	ug/l		99
8) Diethyl Ether	3.464	74	67445	51.162	ug/l		90
9) 1,1,2-Trichlorotrifluo...	3.818	101	132232	55.449	ug/l		99
10) Methyl Iodide	4.013	142	155151	56.212	ug/l		99
11) Tert butyl alcohol	4.891	59	43078	233.304	ug/l	#	100
12) 1,1-Dichloroethene	3.799	96	128262	54.199	ug/l		98
13) Acrolein	3.671	56	5422	20.087	ug/l		87
14) Allyl chloride	4.397	41	191433	46.134	ug/l		93
15) Acrylonitrile	5.073	53	136585	251.450	ug/l		99
16) Acetone	3.891	43	124446	274.484	ug/l		93
17) Carbon Disulfide	4.110	76	412873	53.502	ug/l		100
18) Methyl Acetate	4.397	43	61387	42.944	ug/l	#	91
19) Methyl tert-butyl Ether	5.128	73	339482	52.026	ug/l		94
20) Methylene Chloride	4.622	84	135048	46.098	ug/l		92
21) trans-1,2-Dichloroethene	5.128	96	139138	53.266	ug/l		91
22) Diisopropyl ether	6.031	45	412983	47.129	ug/l		98
23) Vinyl Acetate	5.970	43	1279163	241.628	ug/l		97
24) 1,1-Dichloroethane	5.921	63	251699	51.413	ug/l		99
25) 2-Butanone	6.908	43	182592	240.768	ug/l		98
26) 2,2-Dichloropropane	6.896	77	229889	52.796	ug/l		100
27) cis-1,2-Dichloroethene	6.896	96	164793	54.670	ug/l		96
28) Bromochloromethane	7.250	49	100083	47.928	ug/l		95
29) Tetrahydrofuran	7.274	42	115013	235.730	ug/l		93
30) Chloroform	7.427	83	251591	53.578	ug/l		94
31) Cyclohexane	7.713	56	236552	48.361	ug/l		96
32) 1,1,1-Trichloroethane	7.628	97	224345	52.075	ug/l		99
36) 1,1-Dichloropropene	7.847	75	193158	53.349	ug/l		99
37) Ethyl Acetate	6.994	43	83173	47.744	ug/l	#	96
38) Carbon Tetrachloride	7.829	117	199987	53.361	ug/l		99
39) Methylcyclohexane	9.115	83	262827	54.032	ug/l		97
40) Benzene	8.085	78	572541	53.342	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022407.D
Acq On : 23 May 2025 14:34
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 23 23:19:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 05/27/2025
Supervised By :Semsettin Yesilyurt 05/27/2025

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	7.232	41	55931m	48.401 ug/l		
42) 1,2-Dichloroethane	8.164	62	150005	51.680 ug/l		99
43) Isopropyl Acetate	8.207	43	180176	47.424 ug/l		96
44) Trichloroethene	8.872	130	142169	53.270 ug/l		95
45) 1,2-Dichloropropane	9.146	63	133774	51.695 ug/l		97
46) Dibromomethane	9.237	93	74785	53.582 ug/l		100
47) Bromodichloromethane	9.432	83	192142	53.066 ug/l		99
48) Methyl methacrylate	9.225	41	82263	46.300 ug/l		92
49) 1,4-Dioxane	9.243	88	15964	1012.465 ug/l		91
51) 4-Methyl-2-Pentanone	10.005	43	444290	238.329 ug/l		94
52) Toluene	10.176	92	363814	53.527 ug/l		100
53) t-1,3-Dichloropropene	10.402	75	179206	50.715 ug/l		99
54) cis-1,3-Dichloropropene	9.865	75	211578	52.261 ug/l		95
55) 1,1,2-Trichloroethane	10.579	97	95964	53.693 ug/l		97
56) Ethyl methacrylate	10.444	69	143099	51.400 ug/l		96
57) 1,3-Dichloropropane	10.725	76	168420	53.037 ug/l		100
58) 2-Chloroethyl Vinyl ether	9.719	63	319778	255.904 ug/l		97
59) 2-Hexanone	10.768	43	305492	244.413 ug/l		96
60) Dibromochloromethane	10.920	129	124963	53.868 ug/l		100
61) 1,2-Dibromoethane	11.017	107	89675	53.833 ug/l		99
64) Tetrachloroethene	10.652	164	148025	50.091 ug/l		99
65) Chlorobenzene	11.450	112	380959	52.815 ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.523	131	129105	52.064 ug/l		99
67) Ethyl Benzene	11.523	91	709631	52.532 ug/l		98
68) m/p-Xylenes	11.633	106	541165	106.314 ug/l		98
69) o-Xylene	11.962	106	254806	52.908 ug/l		96
70) Styrene	11.975	104	426601	52.512 ug/l		98
71) Bromoform	12.139	173	67751	50.619 ug/l	#	100
73) Isopropylbenzene	12.261	105	664453	51.371 ug/l		100
74) N-amyl acetate	12.072	43	169349	45.779 ug/l		97
75) 1,1,2,2-Tetrachloroethane	12.511	83	104308	52.437 ug/l		99
76) 1,2,3-Trichloropropane	12.560	75	77565m	49.038 ug/l		
77) Bromobenzene	12.536	156	139511	50.501 ug/l		98
78) n-propylbenzene	12.603	91	809774	51.904 ug/l		100
79) 2-Chlorotoluene	12.682	91	427999	49.921 ug/l		98
80) 1,3,5-Trimethylbenzene	12.743	105	525917	50.370 ug/l		99
81) trans-1,4-Dichloro-2-b...	12.310	75	36785	47.111 ug/l		97
82) 4-Chlorotoluene	12.779	91	439995	49.894 ug/l		97
83) tert-Butylbenzene	13.005	119	474547	51.135 ug/l		98
84) 1,2,4-Trimethylbenzene	13.048	105	526654	50.812 ug/l		98
85) sec-Butylbenzene	13.182	105	714168	51.842 ug/l		100
86) p-Isopropyltoluene	13.298	119	606476	52.345 ug/l		98
87) 1,3-Dichlorobenzene	13.291	146	289621	51.356 ug/l		99
88) 1,4-Dichlorobenzene	13.371	146	275777	50.838 ug/l		98
89) n-Butylbenzene	13.621	91	571460	52.136 ug/l		99
90) Hexachloroethane	13.883	117	116364	49.754 ug/l		98
91) 1,2-Dichlorobenzene	13.663	146	241462	50.973 ug/l		98
92) 1,2-Dibromo-3-Chloropr...	14.279	75	15803	49.266 ug/l		97
93) 1,2,4-Trichlorobenzene	14.925	180	136047	49.720 ug/l		99
94) Hexachlorobutadiene	15.029	225	75960	49.779 ug/l		99
95) Naphthalene	15.151	128	261527	50.366 ug/l		100
96) 1,2,3-Trichlorobenzene	15.334	180	116775	50.307 ug/l		98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022407.D
Acq On : 23 May 2025 14:34
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 23 23:19:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 05/27/2025
Supervised By :Semsettin Yesilyurt 05/27/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

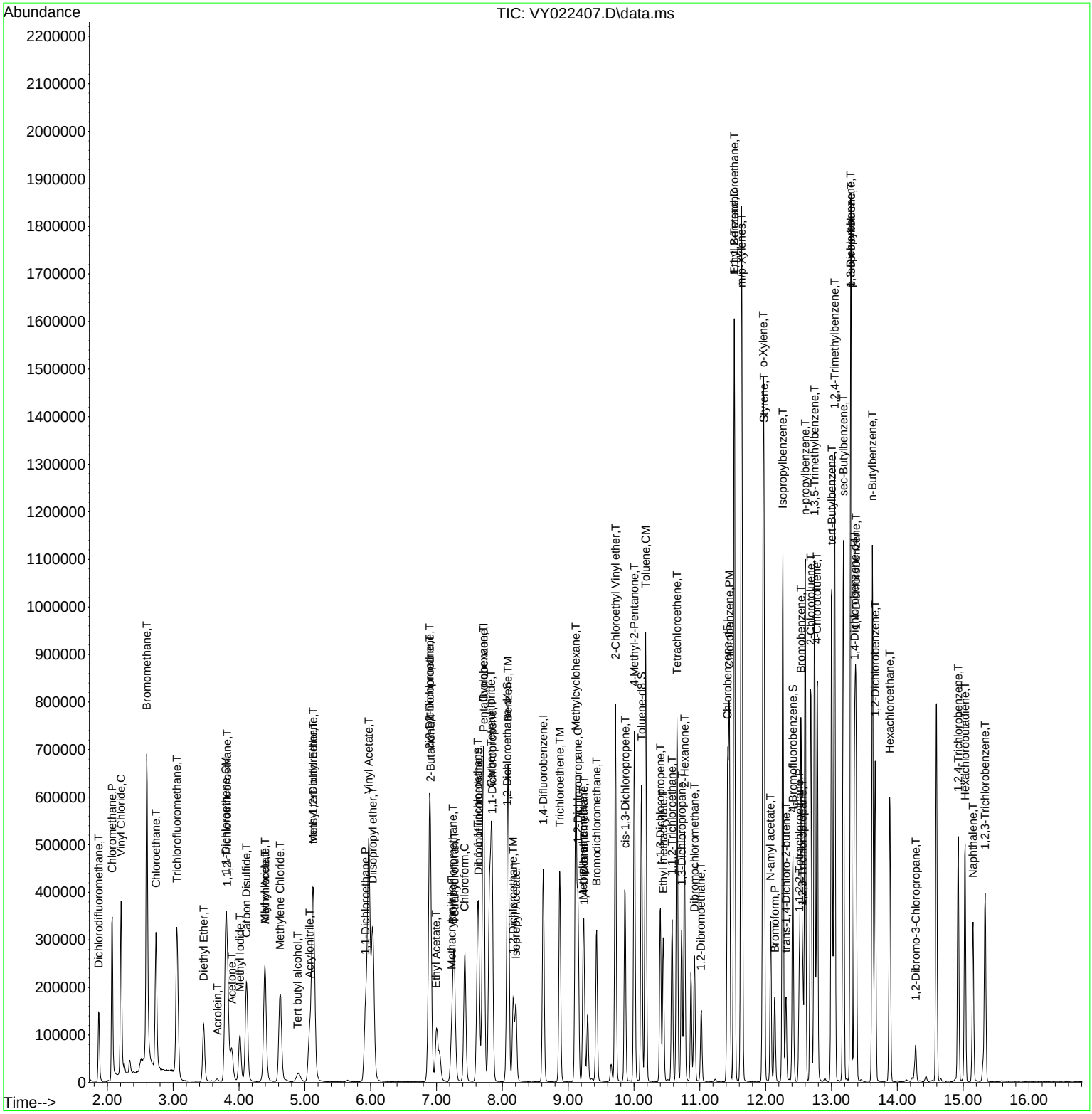
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022407.D
Acq On : 23 May 2025 14:34
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

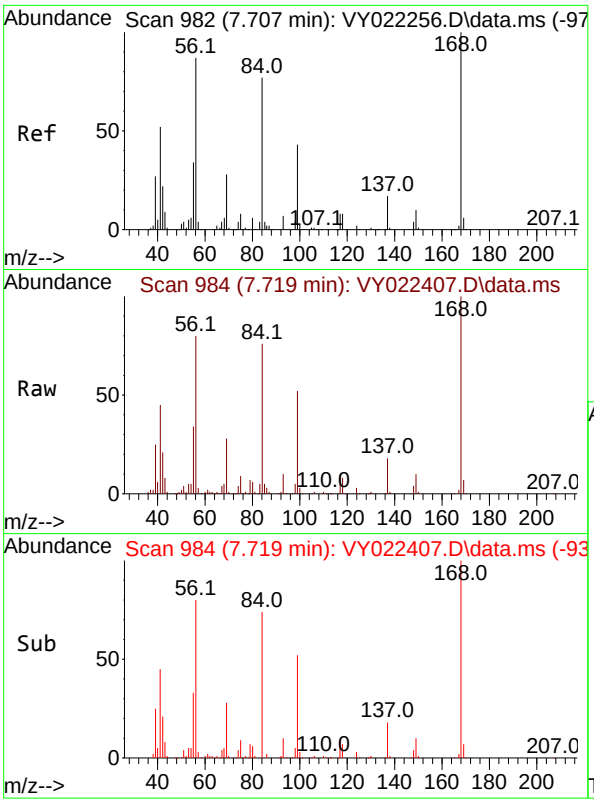
Quant Time: May 23 23:19:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 05/27/2025
Supervised By :Semsettin Yesilyurt 05/27/2025

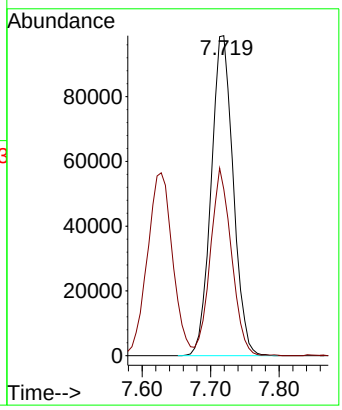




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.719 min Scan# 9
Delta R.T. 0.012 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion:168 Resp: 22124

Ion	Ratio	Lower	Upper
168	100		
99	51.8	44.2	66.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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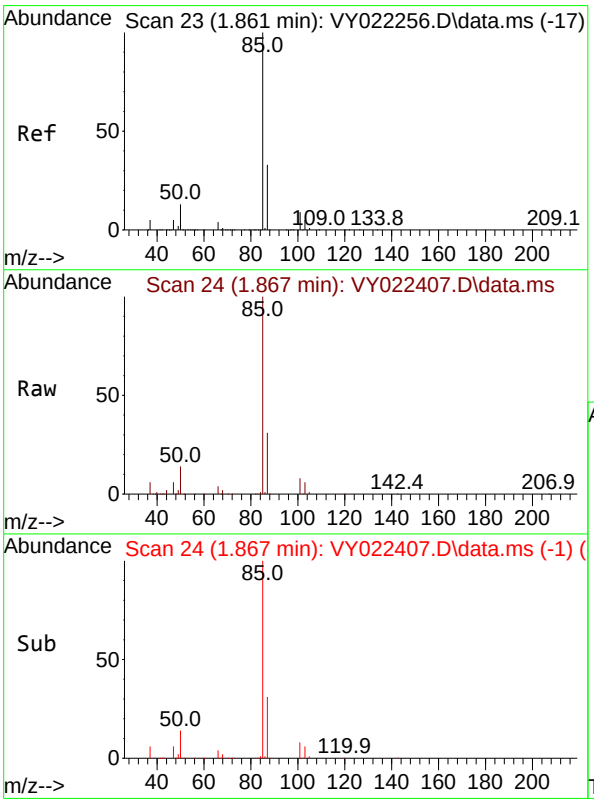
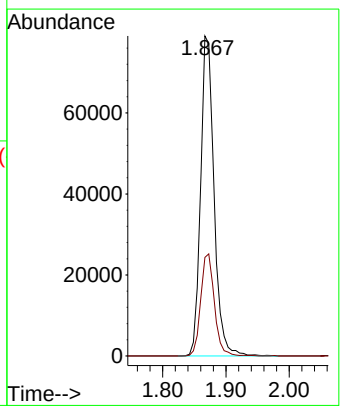
Reviewed By :Mahesh Dadoda 05/27/2025
Supervised By :Semsettin Yesilyurt 05/27/2025

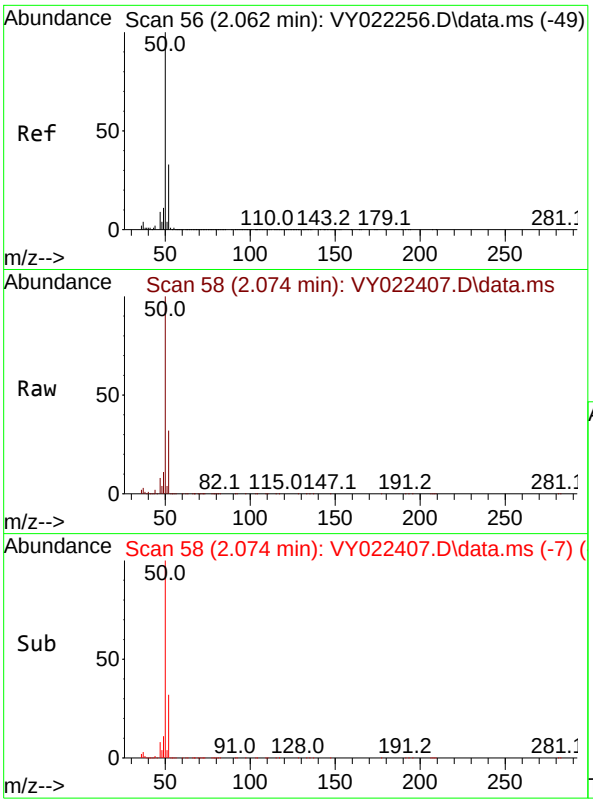


#2
Dichlorodifluoromethane
Concen: 50.667 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 85 Resp: 116968

Ion	Ratio	Lower	Upper
85	100		
87	30.8	16.5	49.5

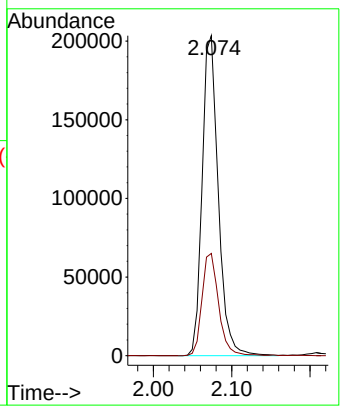




#3
Chloromethane
Concen: 59.771 ug/l
RT: 2.074 min Scan# 5
Delta R.T. 0.012 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 50 Resp: 29025

Ion	Ratio	Lower	Upper
50	100		
52	32.0	26.5	39.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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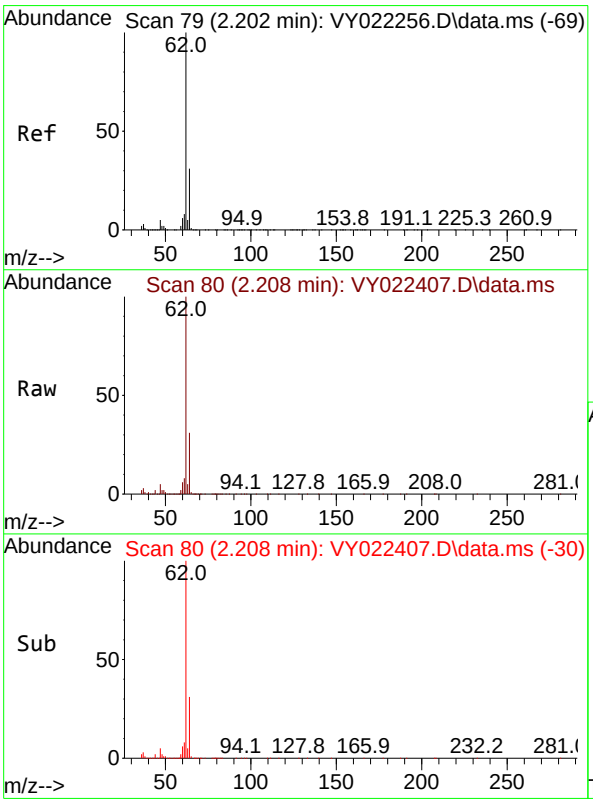
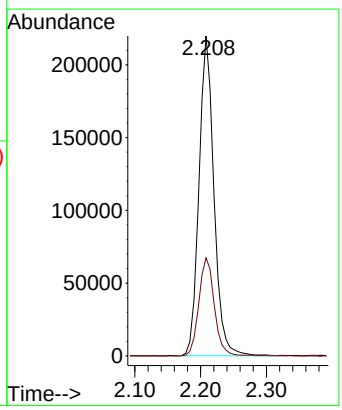
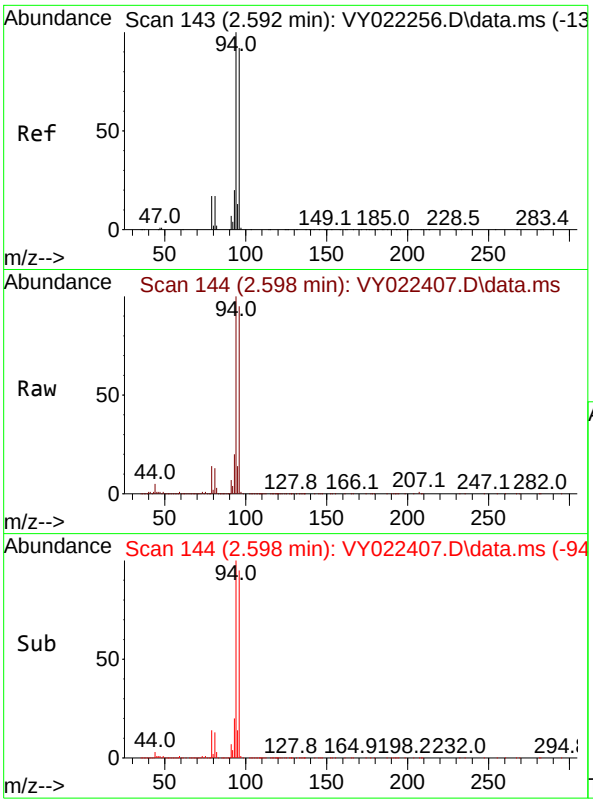


#4
Vinyl Chloride
Concen: 63.990 ug/l
RT: 2.208 min Scan# 80
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 62 Resp: 347178

Ion	Ratio	Lower	Upper
62	100		
64	30.7	24.5	36.7

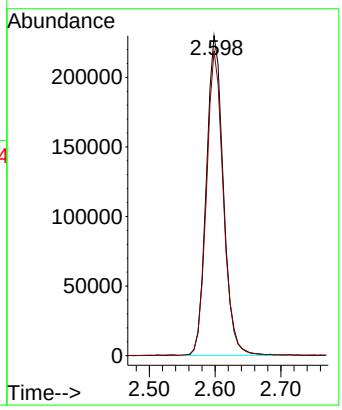




#5
Bromomethane
Concen: 93.610 ug/l
RT: 2.598 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 94 Resp: 41344

Ion	Ratio	Lower	Upper
94	100		
96	95.1	73.4	110.0



Instrument :
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ClientSampleId :
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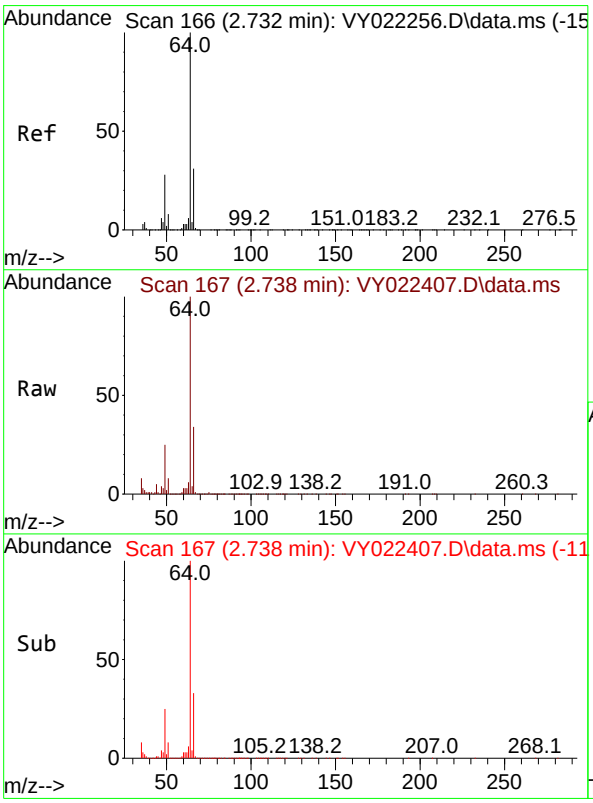
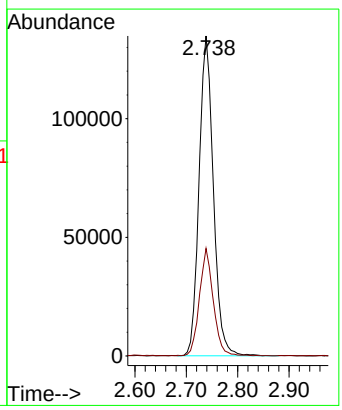
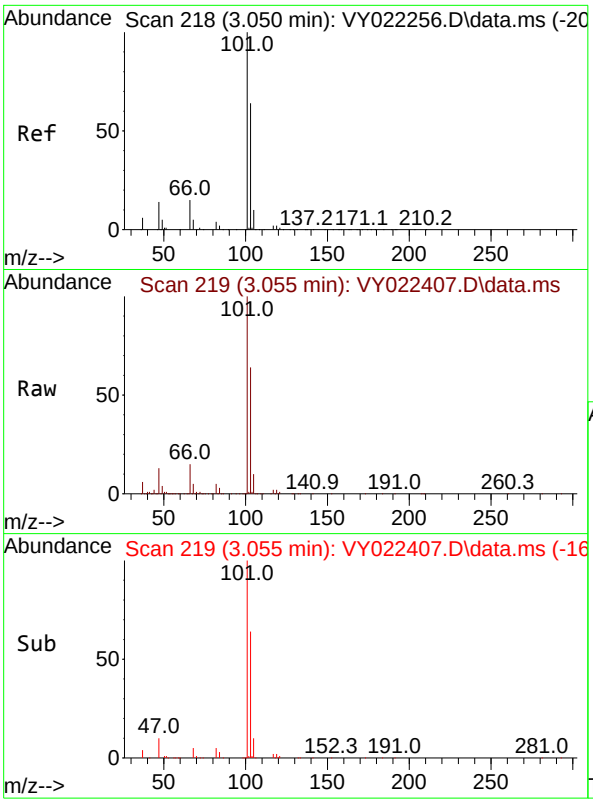


#6
Chloroethane
Concen: 76.947 ug/l
RT: 2.738 min Scan# 167
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 64 Resp: 259722

Ion	Ratio	Lower	Upper
64	100		
66	33.5	24.8	37.2





#7
Trichlorofluoromethane
Concen: 58.240 ug/l
RT: 3.055 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion:101 Resp: 31991

Ion	Ratio	Lower	Upper
101	100		
103	64.2	51.7	77.5

Instrument :
MSVOA_Y
ClientSampleId :
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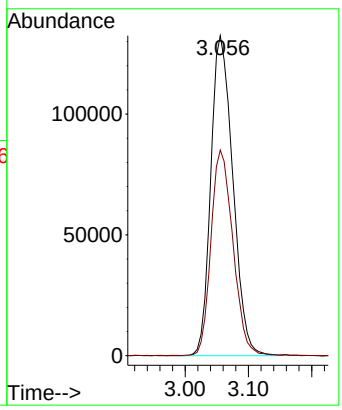
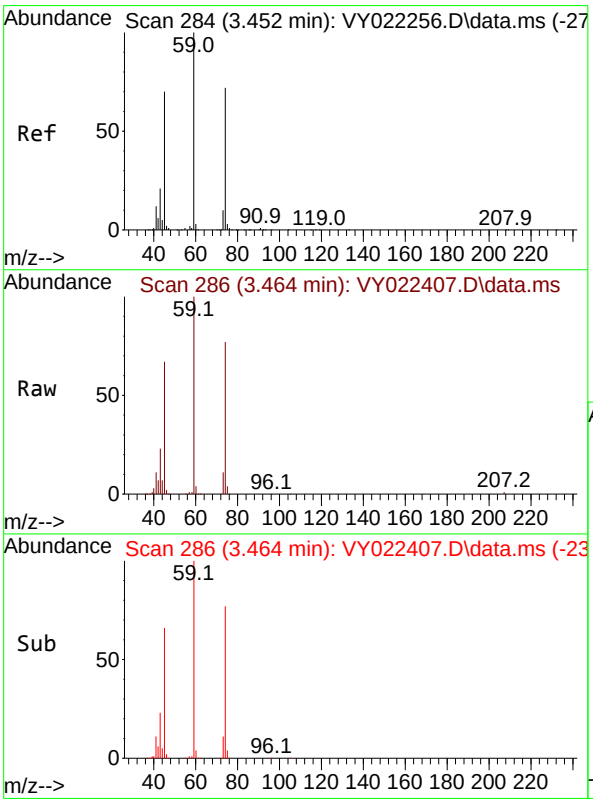
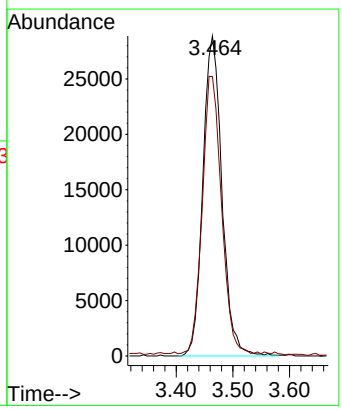


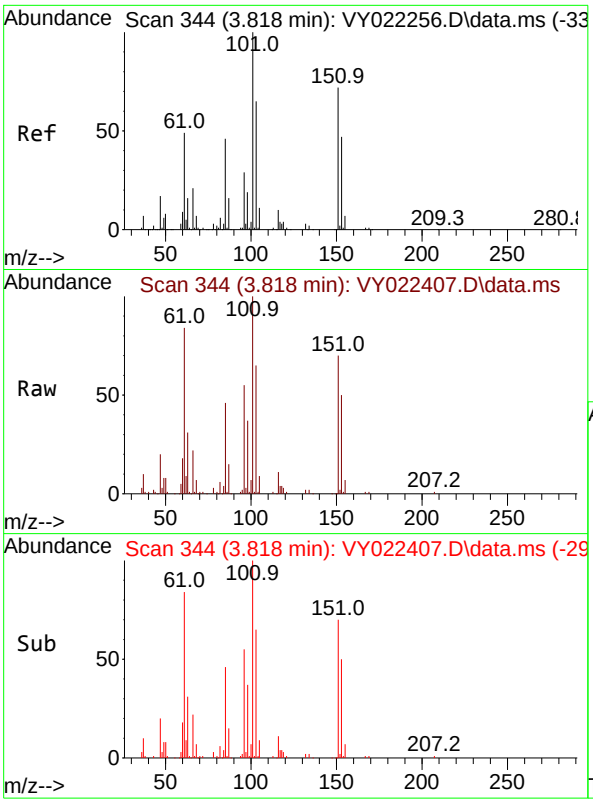


#8
Diethyl Ether
Concen: 51.162 ug/l
RT: 3.464 min Scan# 286
Delta R.T. 0.012 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 74 Resp: 67445

Ion	Ratio	Lower	Upper
74	100		
45	87.1	48.6	145.8





#9
1,1,2-Trichlorotrifluoroethane
Concen: 55.449 ug/l
RT: 3.818 min Scan# 34
Delta R.T. -0.000 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion:101 Resp: 13223

Ion	Ratio	Lower	Upper
101	100		
85	47.8	38.6	58.0
151	74.1	59.7	89.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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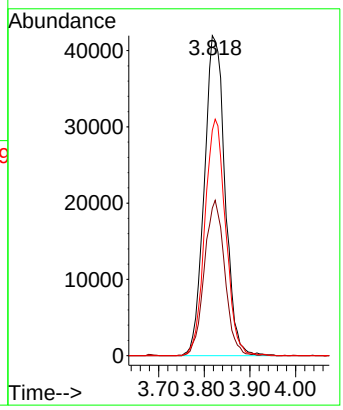
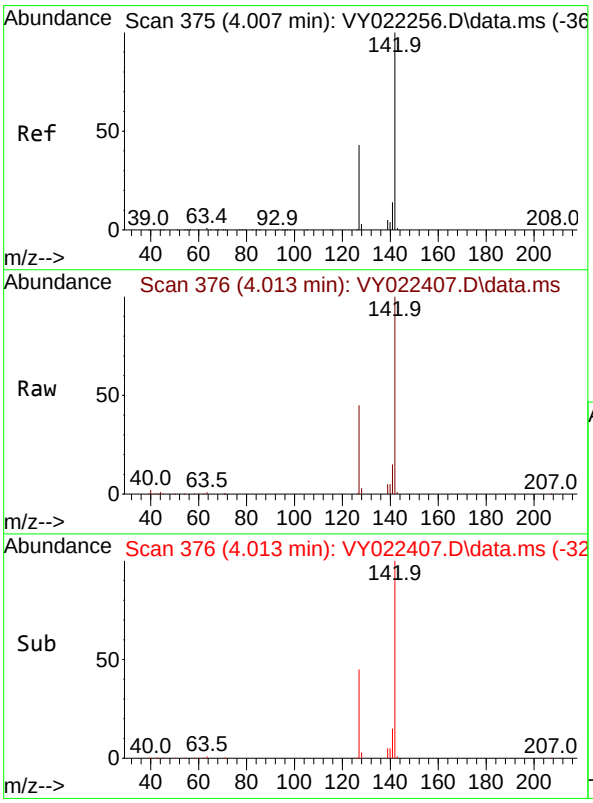
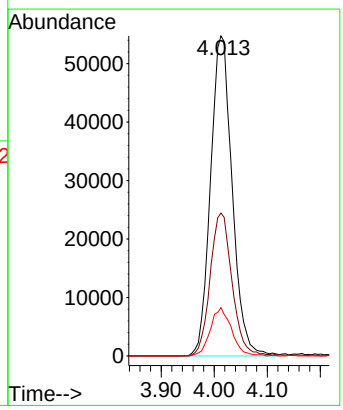


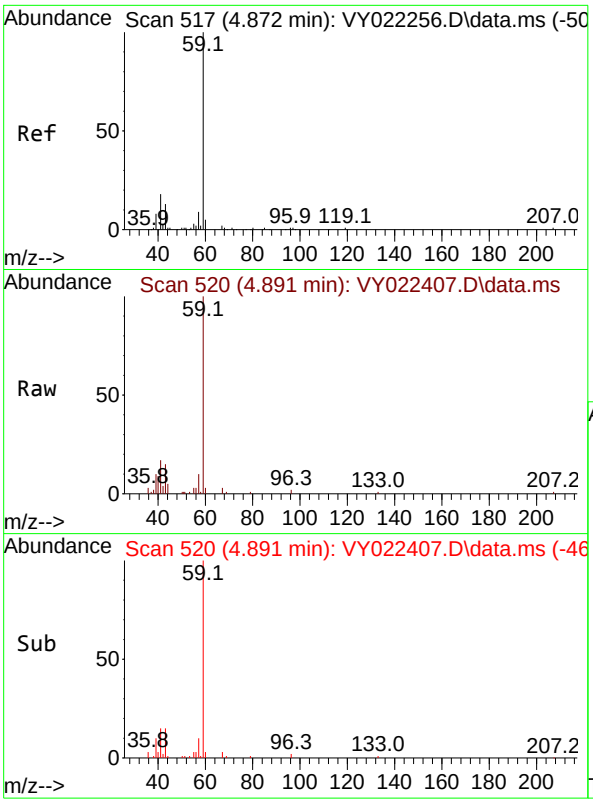


#10
Methyl Iodide
Concen: 56.212 ug/l
RT: 4.013 min Scan# 376
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion:142 Resp: 155151

Ion	Ratio	Lower	Upper
142	100		
127	45.1	35.7	53.5
141	14.8	11.1	16.7





#11
Tert butyl alcohol
Concen: 233.304 ug/l
RT: 4.891 min Scan# 5
Delta R.T. 0.018 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 59 Resp: 4307

Ion	Ratio	Lower	Upper
59	100		
57	11.4	0.0	0.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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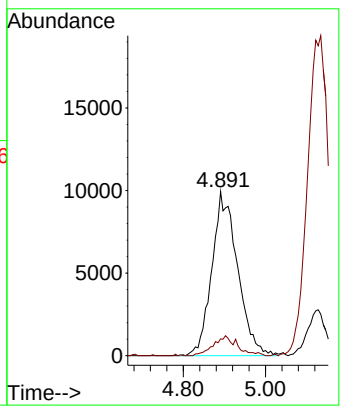
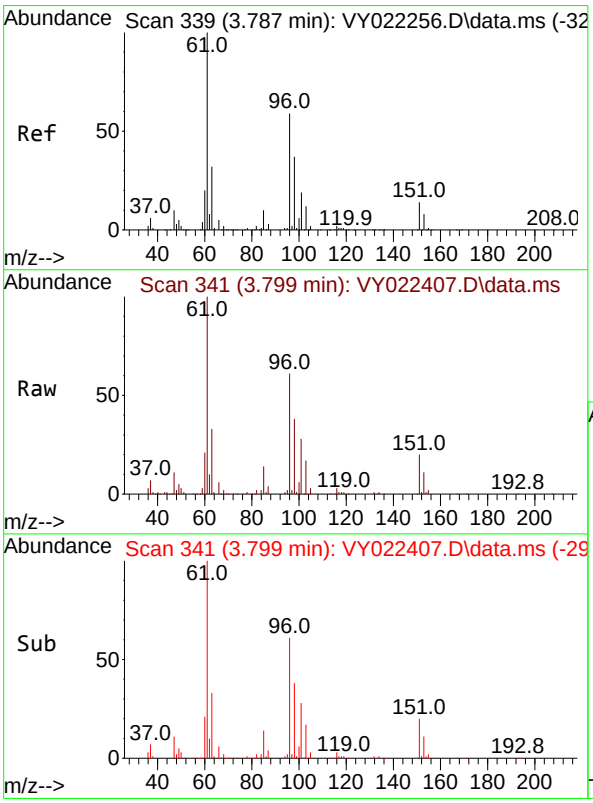
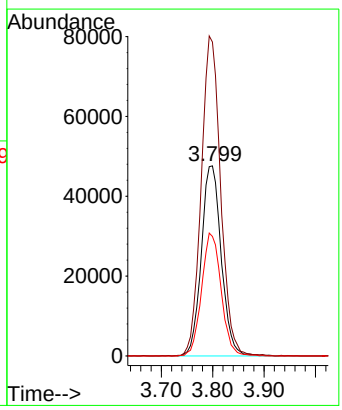


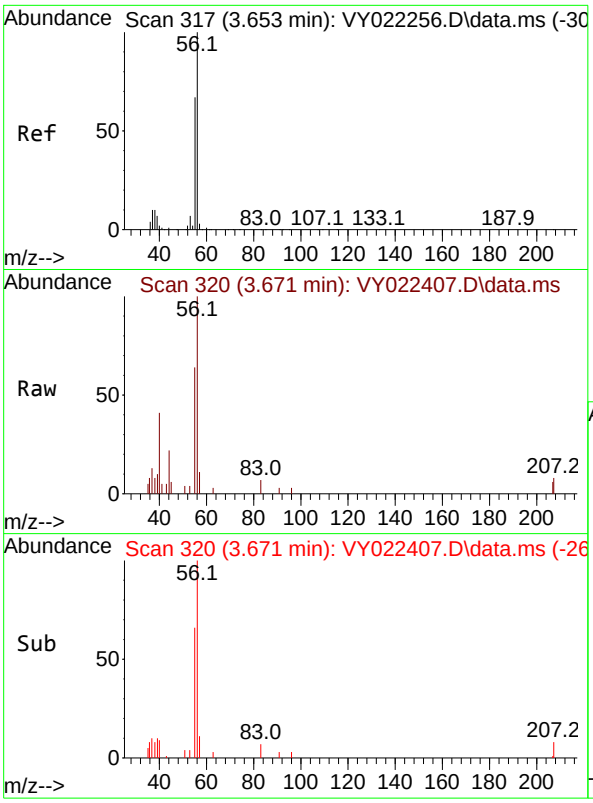


#12
1,1-Dichloroethene
Concen: 54.199 ug/l
RT: 3.799 min Scan# 341
Delta R.T. 0.012 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 96 Resp: 128262

Ion	Ratio	Lower	Upper
96	100		
61	165.1	134.9	202.3
98	62.9	49.9	74.9

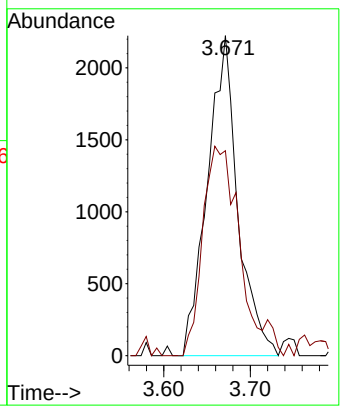




#13
Acrolein
Concen: 20.087 ug/l
RT: 3.671 min Scan# 3
Delta R.T. 0.018 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 56 Resp: 542

Ion	Ratio	Lower	Upper
56	100		
55	80.3	55.6	83.4



Instrument :
MSVOA_Y
ClientSampleId :
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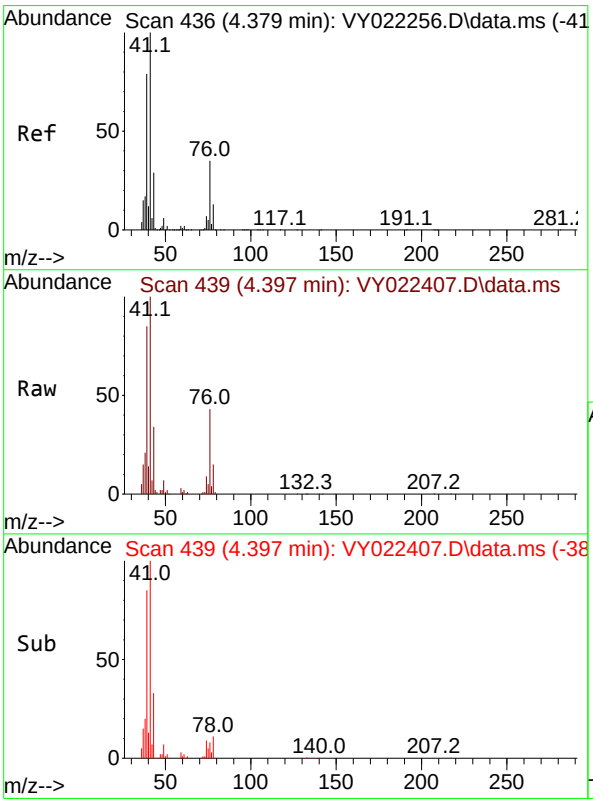
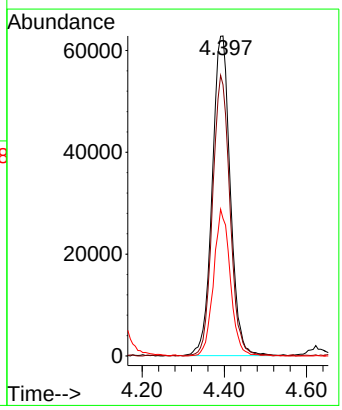
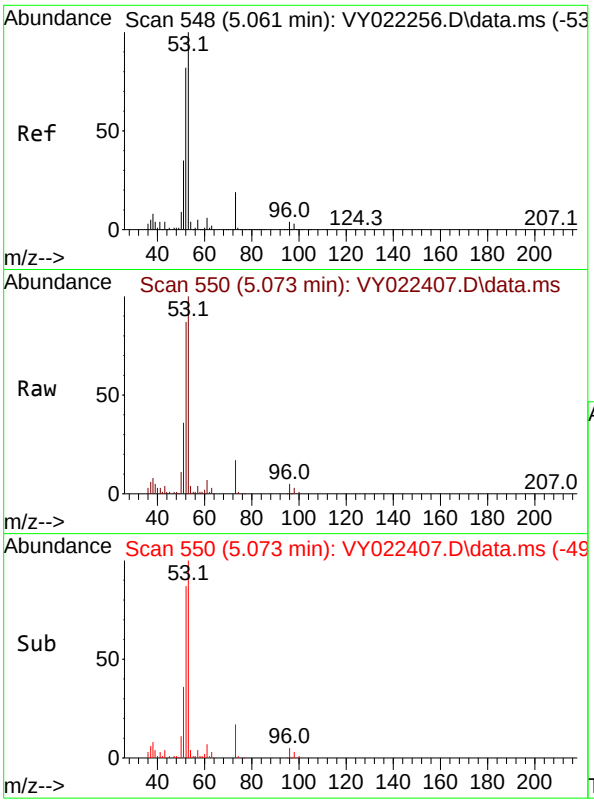


#14
Allyl chloride
Concen: 46.134 ug/l
RT: 4.397 min Scan# 439
Delta R.T. 0.018 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 41 Resp: 191433

Ion	Ratio	Lower	Upper
41	100		
39	84.6	63.4	95.0
76	42.4	29.5	44.3





#15
Acrylonitrile
Concen: 251.450 ug/l
RT: 5.073 min Scan# 5
Delta R.T. 0.012 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 53 Resp: 13658

Ion	Ratio	Lower	Upper
53	100		
52	82.0	66.1	99.1
51	37.5	30.0	45.0

Instrument :
MSVOA_Y
ClientSampleId :
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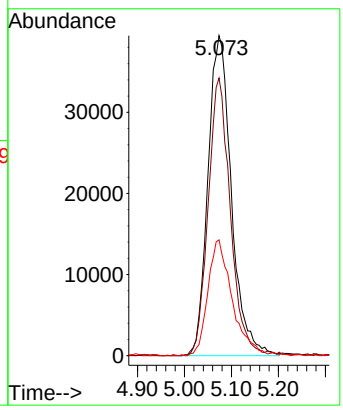
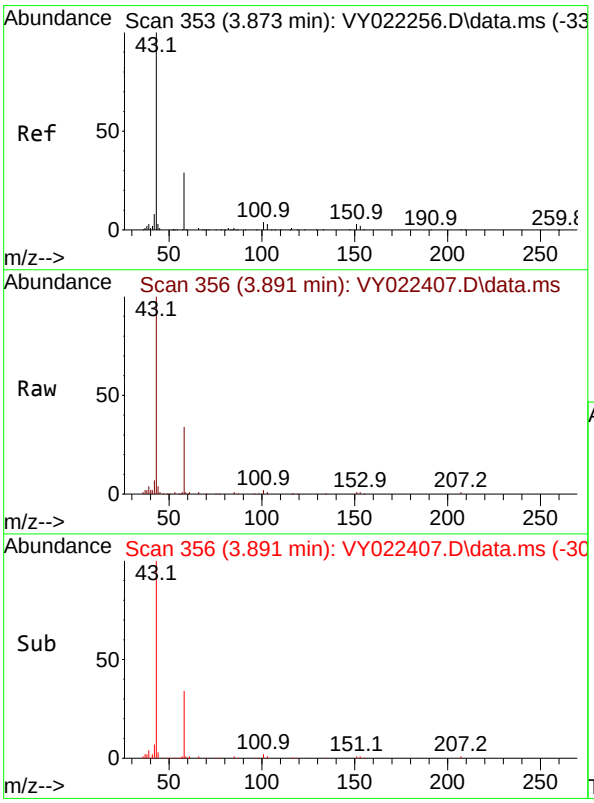
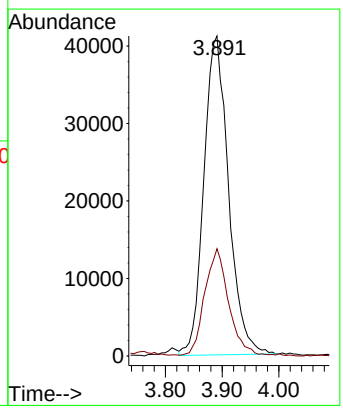


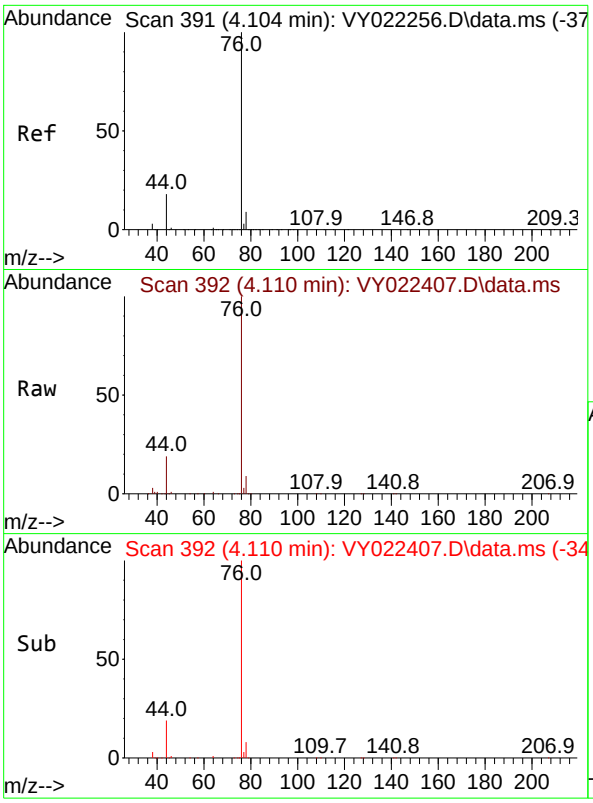


#16
Acetone
Concen: 274.484 ug/l
RT: 3.891 min Scan# 356
Delta R.T. 0.018 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 43 Resp: 124446

Ion	Ratio	Lower	Upper
43	100		
58	33.5	23.6	35.4





#17
Carbon Disulfide
Concen: 53.502 ug/l
RT: 4.110 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 76 Resp: 41287

Ion	Ratio	Lower	Upper
76	100		
78	9.0	7.2	10.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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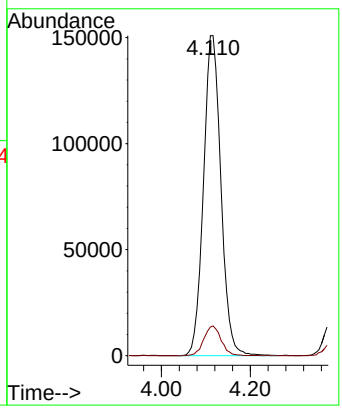
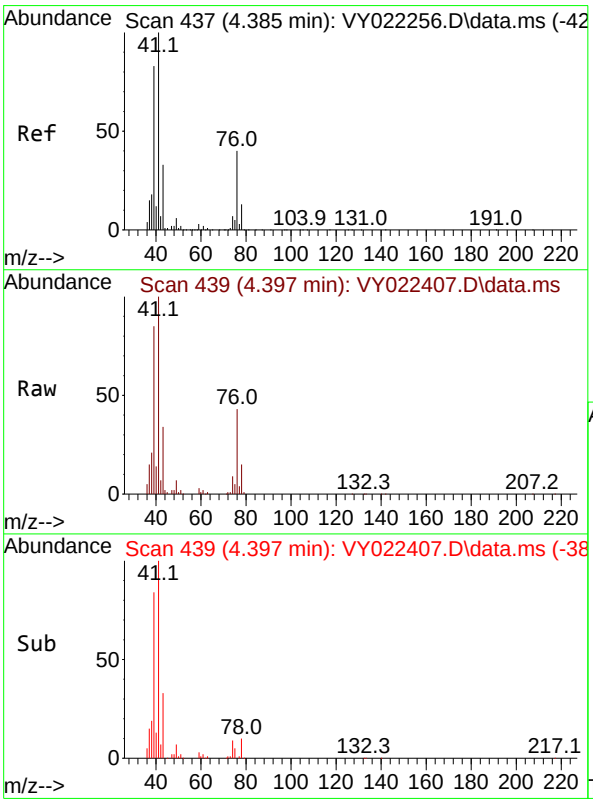
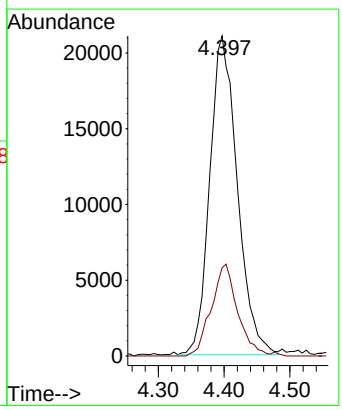


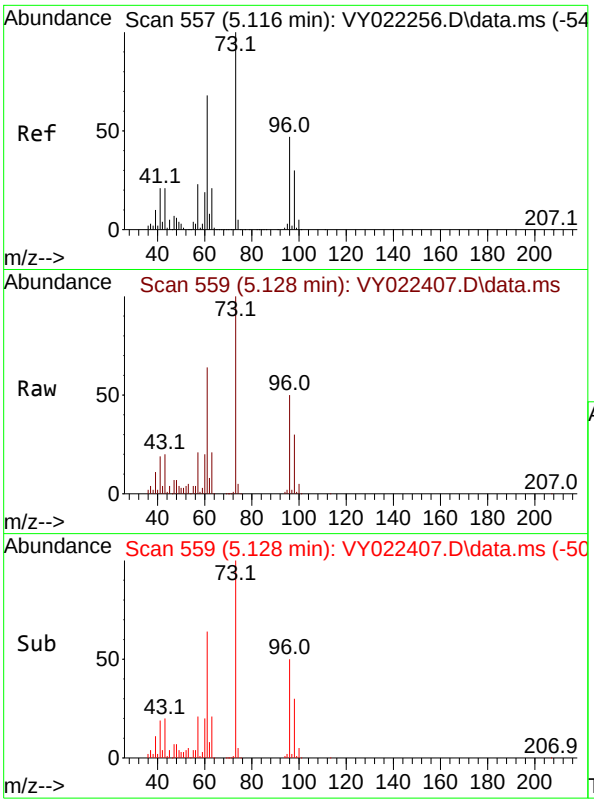


#18
Methyl Acetate
Concen: 42.944 ug/l
RT: 4.397 min Scan# 439
Delta R.T. 0.012 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 43 Resp: 61387

Ion	Ratio	Lower	Upper
43	100		
74	27.4	18.2	27.4#

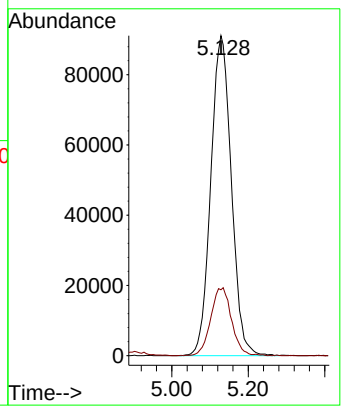




#19
Methyl tert-butyl Ether
Concen: 52.026 ug/l
RT: 5.128 min Scan# 5
Delta R.T. 0.012 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 73 Resp: 33948

Ion	Ratio	Lower	Upper
73	100		
57	20.5	18.6	28.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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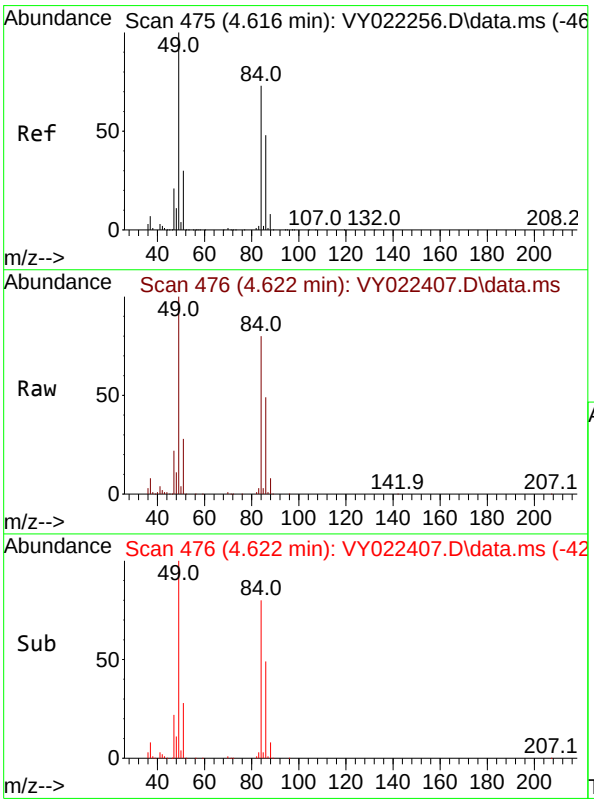
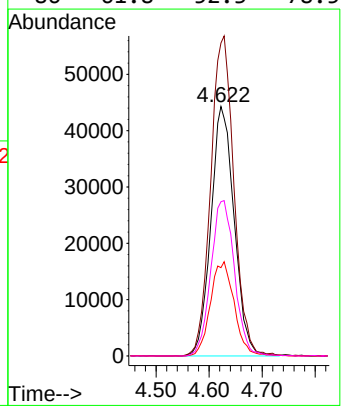
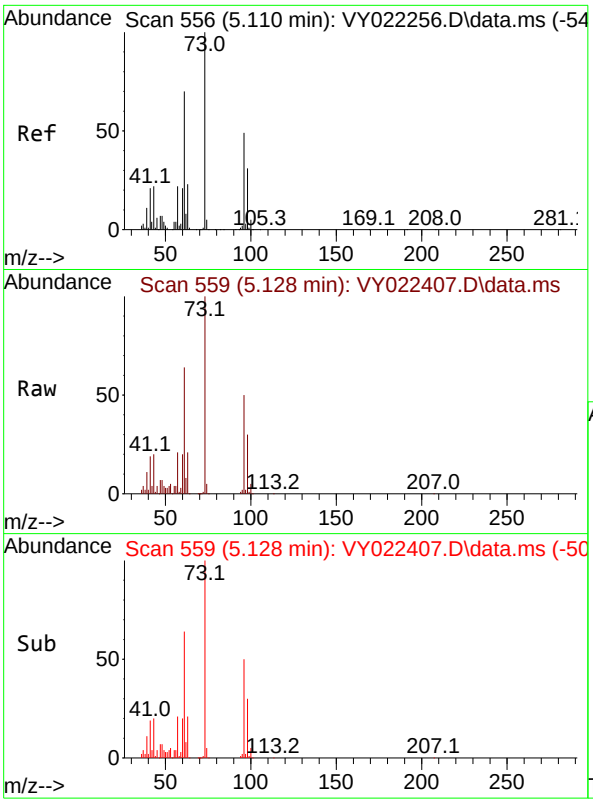


#20
Methylene Chloride
Concen: 46.098 ug/l
RT: 4.622 min Scan# 476
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 84 Resp: 135048

Ion	Ratio	Lower	Upper
84	100		
49	125.4	109.6	164.4
51	35.4	32.4	48.6
86	61.8	52.3	78.5

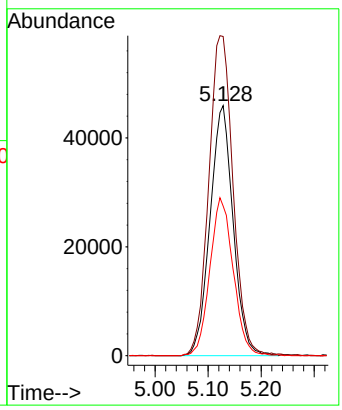




#21
trans-1,2-Dichloroethene
Concen: 53.266 ug/l
RT: 5.128 min Scan# 5
Delta R.T. 0.018 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 96 Resp: 13913

Ion	Ratio	Lower	Upper
96	100		
61	127.7	113.4	170.0
98	59.9	50.9	76.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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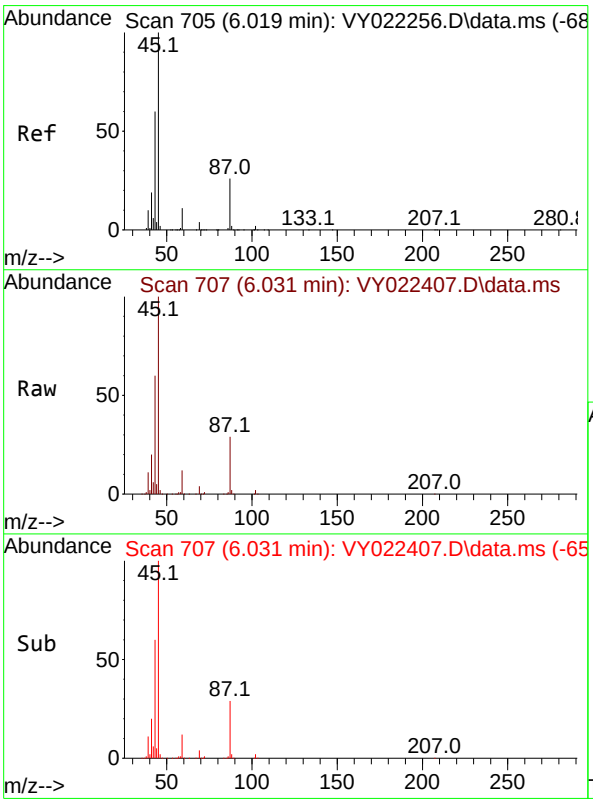
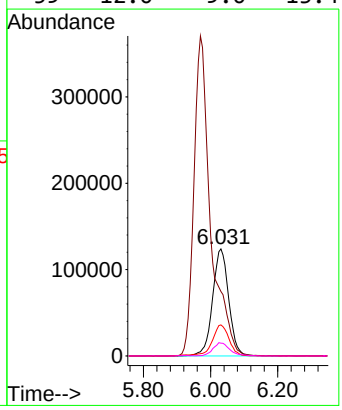
Supervised By :Semsettin Yesilyurt 05/27/2025

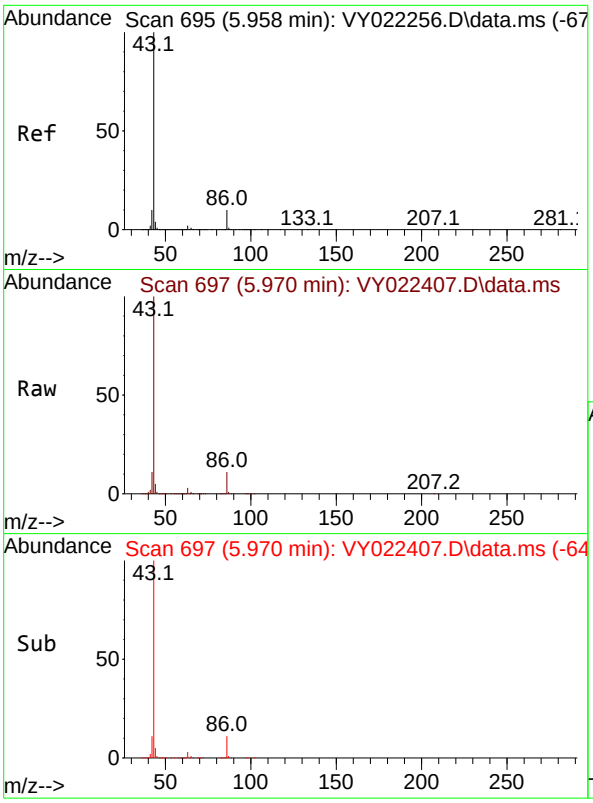


#22
Diisopropyl ether
Concen: 47.129 ug/l
RT: 6.031 min Scan# 707
Delta R.T. 0.012 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 45 Resp: 412983

Ion	Ratio	Lower	Upper
45	100		
43	60.0	48.2	72.2
87	29.0	21.4	32.0
59	12.0	9.0	13.4

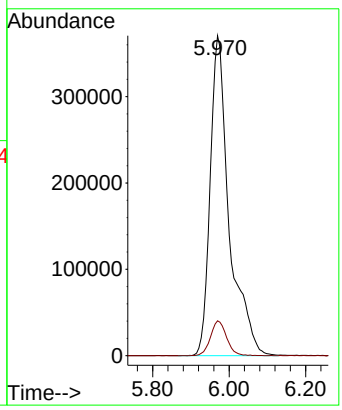




#23
Vinyl Acetate
Concen: 241.628 ug/l
RT: 5.970 min Scan# 6
Delta R.T. 0.012 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 43 Resp: 127916

Ion	Ratio	Lower	Upper
43	100		
86	10.9	7.8	11.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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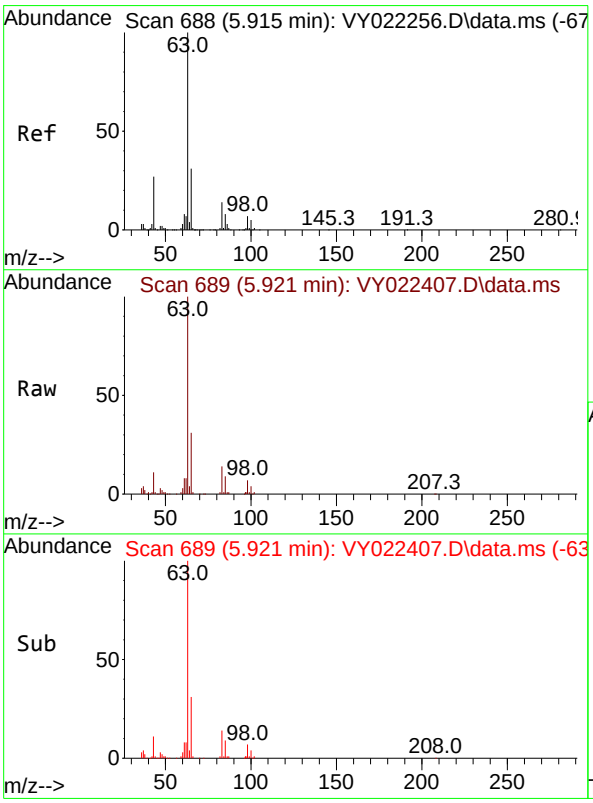
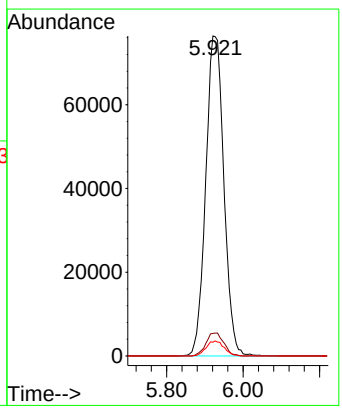
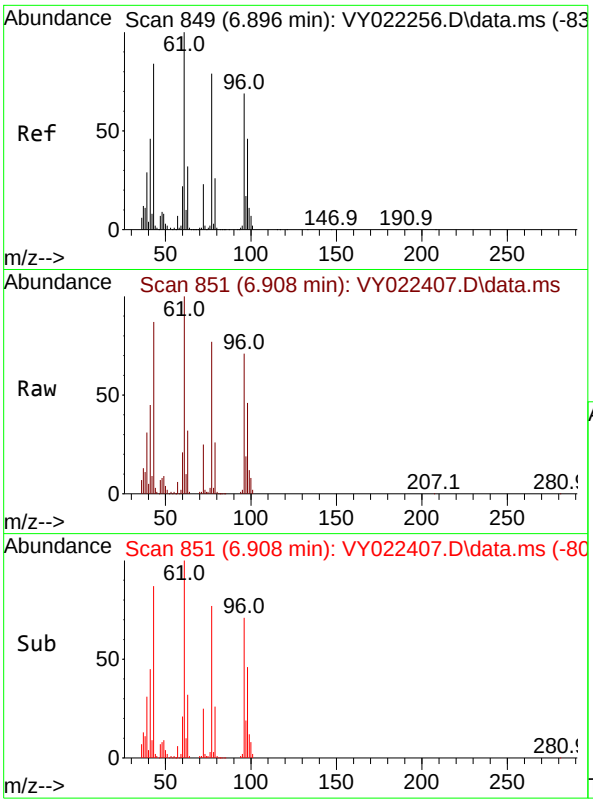


#24
1,1-Dichloroethane
Concen: 51.413 ug/l
RT: 5.921 min Scan# 689
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 63 Resp: 251699

Ion	Ratio	Lower	Upper
63	100		
98	7.1	3.5	10.5
100	4.3	2.4	7.2





#25
2-Butanone
Concen: 240.768 ug/l
RT: 6.908 min Scan# 8
Delta R.T. 0.012 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 43 Resp: 18259

Ion	Ratio	Lower	Upper
43	100		
72	28.5	22.1	33.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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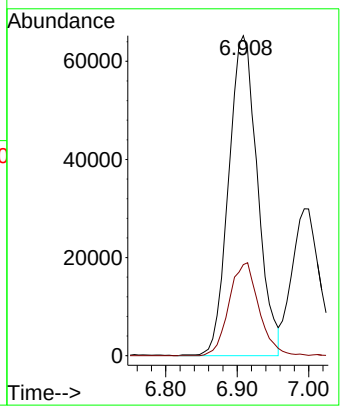
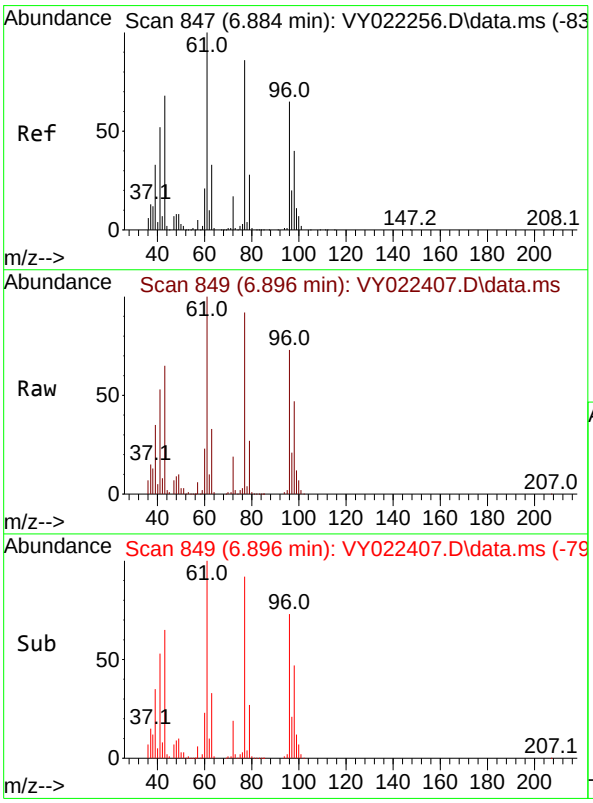
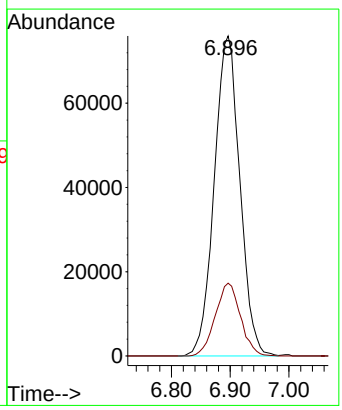


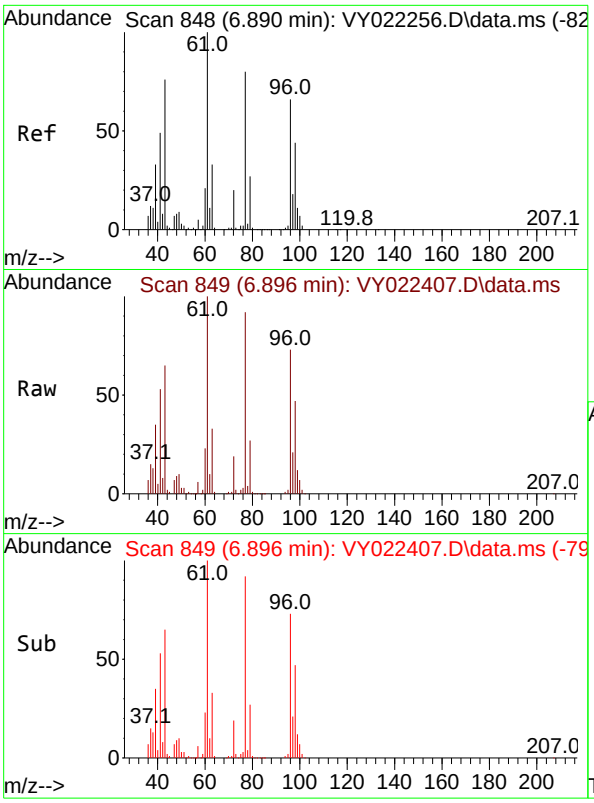


#26
2,2-Dichloropropane
Concen: 52.796 ug/l
RT: 6.896 min Scan# 849
Delta R.T. 0.012 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 77 Resp: 229889

Ion	Ratio	Lower	Upper
77	100		
97	22.4	11.2	33.5





#27
cis-1,2-Dichloroethene
Concen: 54.670 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 96 Resp: 16479

Ion	Ratio	Lower	Upper
96	100		
61	143.6	0.0	302.6
98	63.9	0.0	128.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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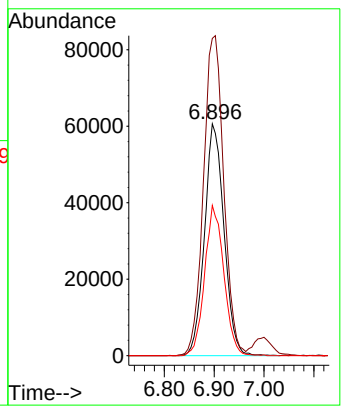
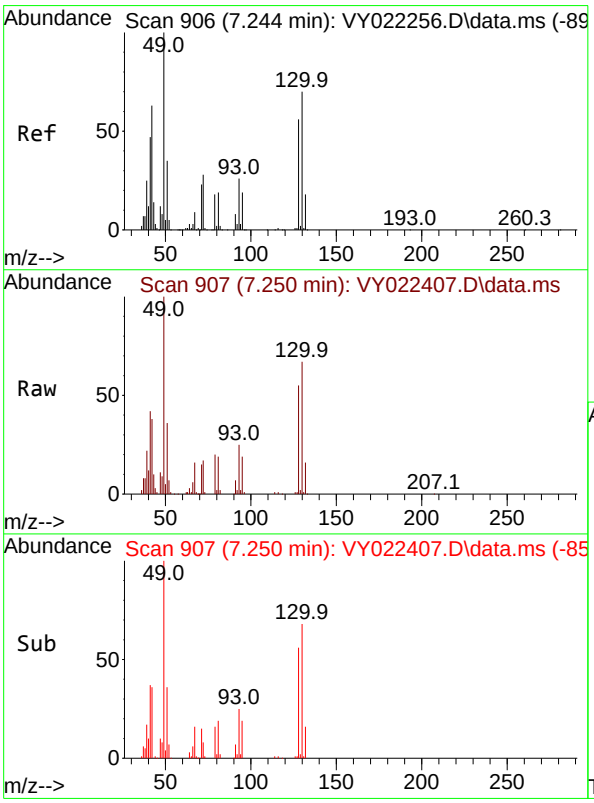
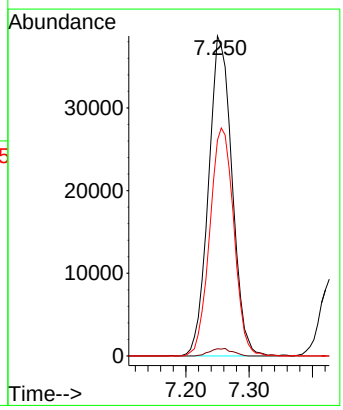


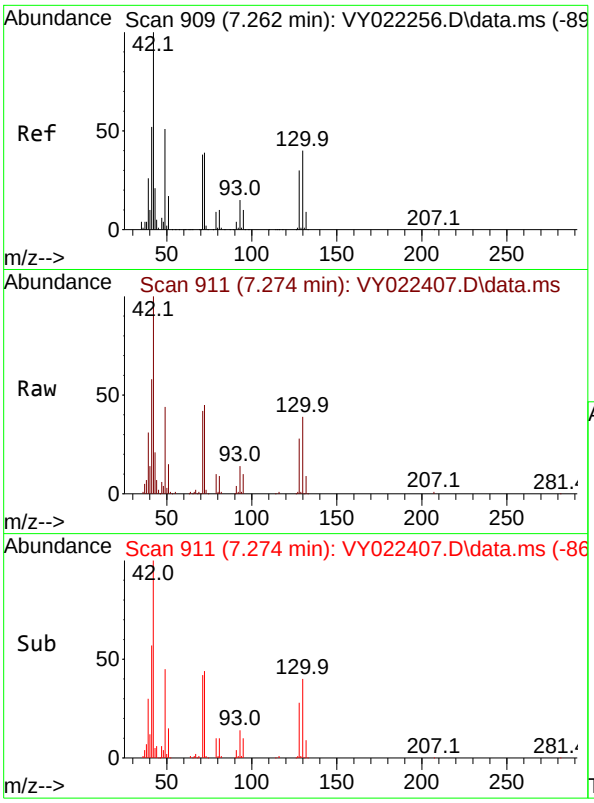


#28
Bromochloromethane
Concen: 47.928 ug/l
RT: 7.250 min Scan# 907
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 49 Resp: 100083

Ion	Ratio	Lower	Upper
49	100		
129	2.3	0.0	3.6
130	72.7	54.7	82.1





#29
Tetrahydrofuran
Concen: 235.730 ug/l
RT: 7.274 min Scan# 9
Delta R.T. 0.012 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 42 Resp: 11501

Ion	Ratio	Lower	Upper
42	100		
72	46.1	33.8	50.6
71	44.9	31.5	47.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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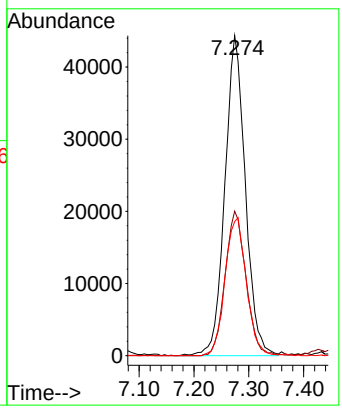
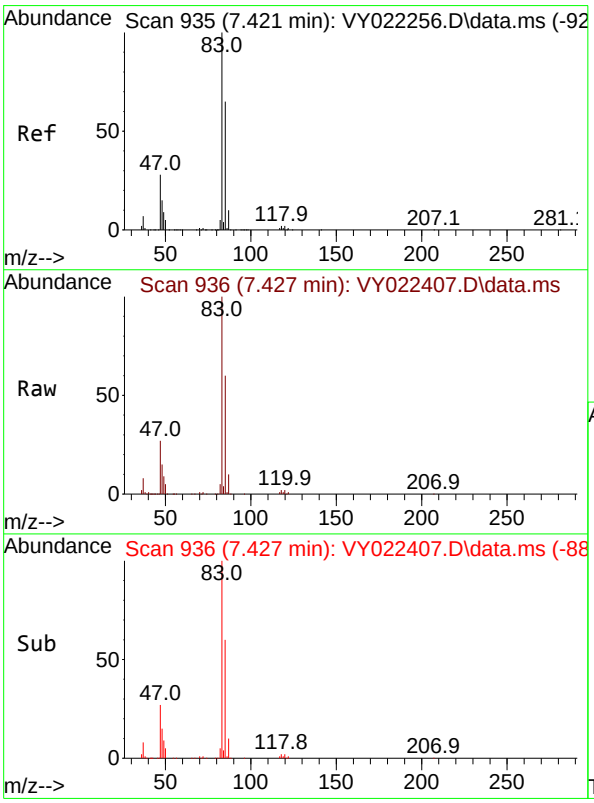
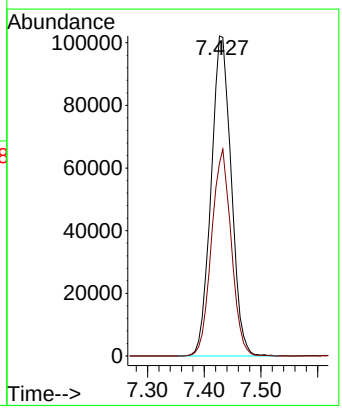


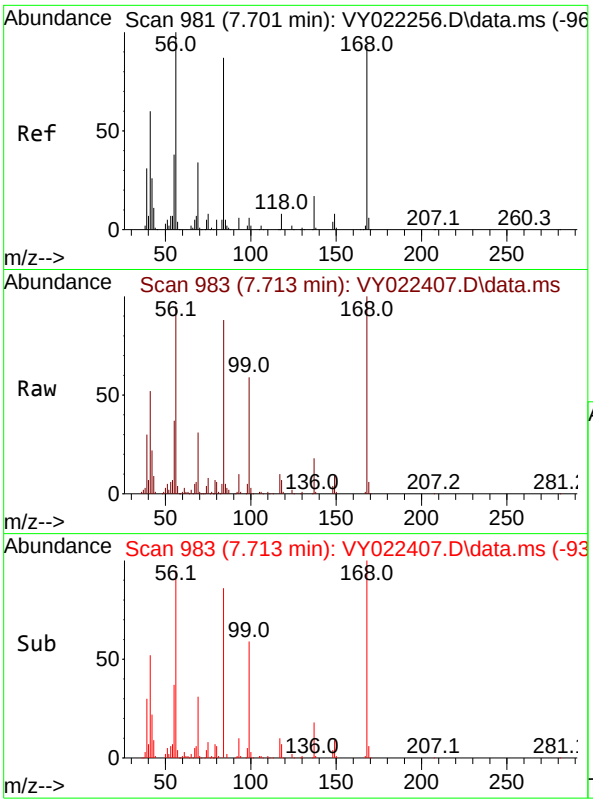


#30
Chloroform
Concen: 53.578 ug/l
RT: 7.427 min Scan# 936
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 83 Resp: 251591

Ion	Ratio	Lower	Upper
83	100		
85	60.2	51.8	77.8





#31
Cyclohexane
Concen: 48.361 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.012 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 56 Resp: 23655

Ion	Ratio	Lower	Upper
56	100		
69	32.7	27.4	41.2
84	91.2	70.0	105.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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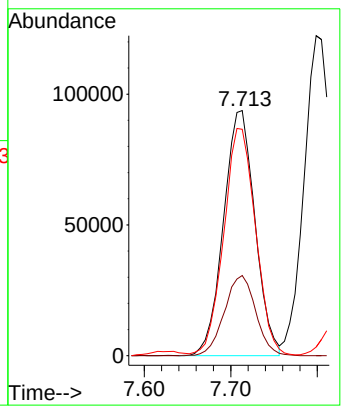
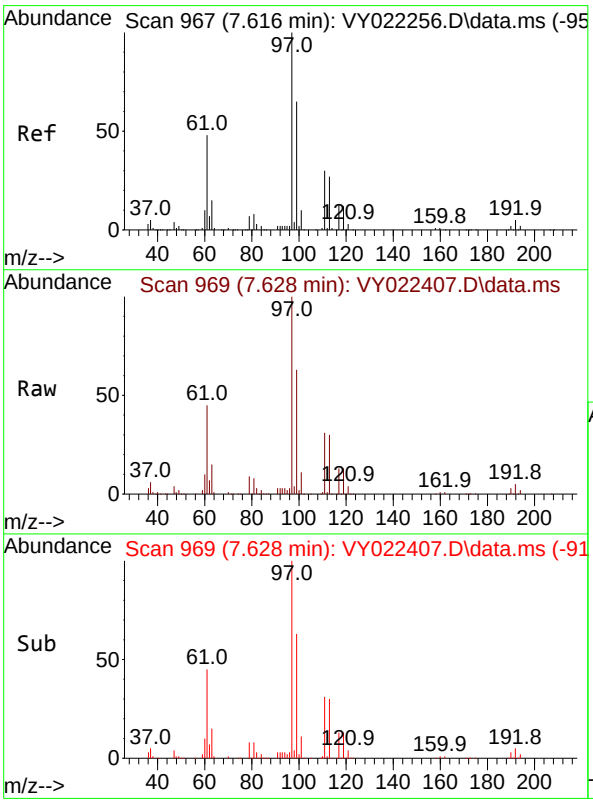
Supervised By :Semsettin Yesilyurt 05/27/2025

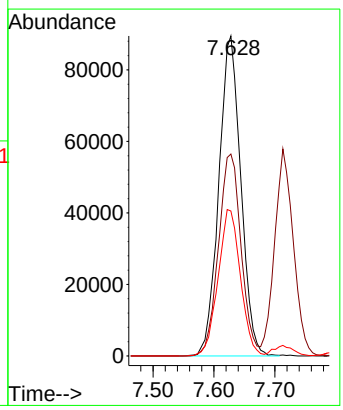


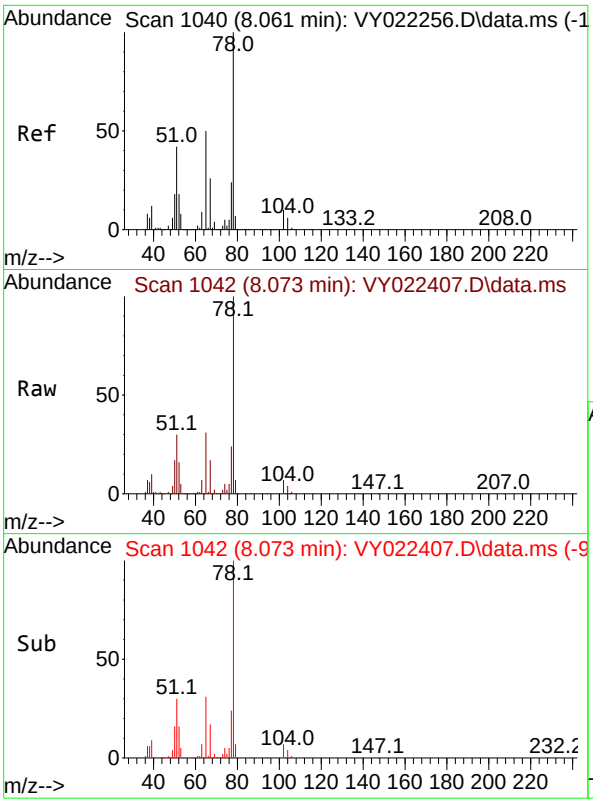


#32
1,1,1-Trichloroethane
Concen: 52.075 ug/l
RT: 7.628 min Scan# 969
Delta R.T. 0.012 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 97 Resp: 224345

Ion	Ratio	Lower	Upper
97	100		
99	64.9	51.4	77.0
61	46.5	38.1	57.1

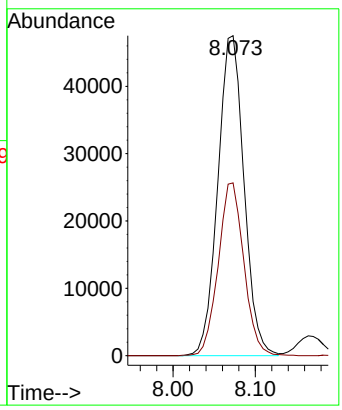




#33
1,2-Dichloroethane-d4
Concen: 43.448 ug/l
RT: 8.073 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 65 Resp: 10505

Ion	Ratio	Lower	Upper
65	100		
67	53.0	0.0	104.6



Instrument :
MSVOA_Y
ClientSampleId :
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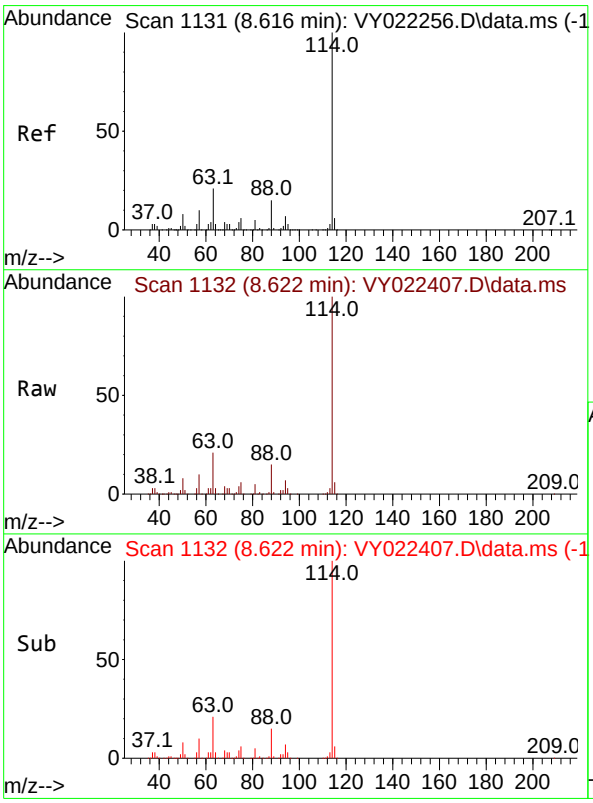
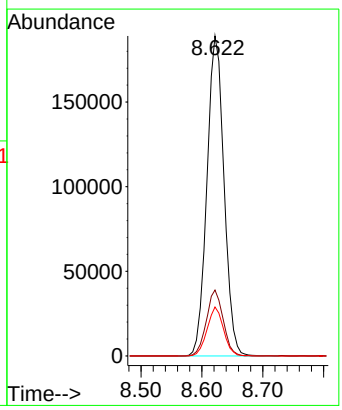
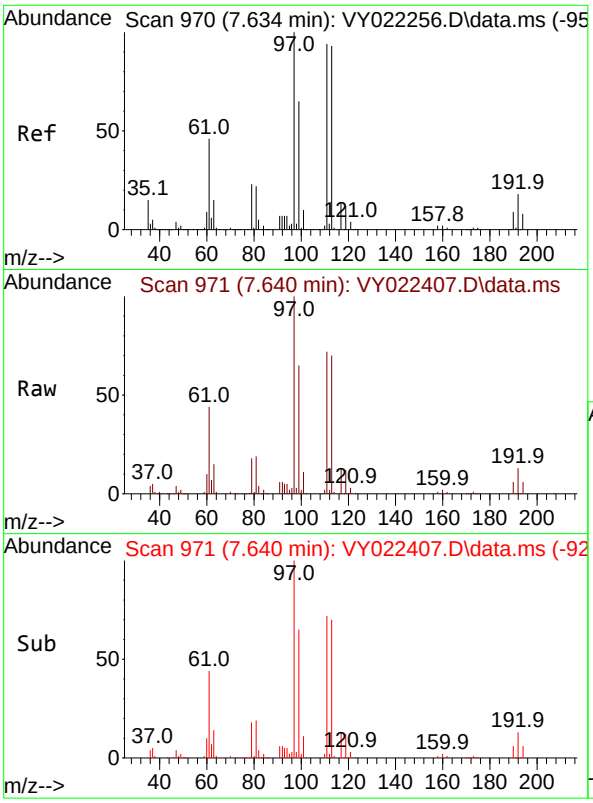


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.622 min Scan# 1132
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion:114 Resp: 368290

Ion	Ratio	Lower	Upper
114	100		
63	20.6	0.0	41.0
88	15.3	0.0	29.4

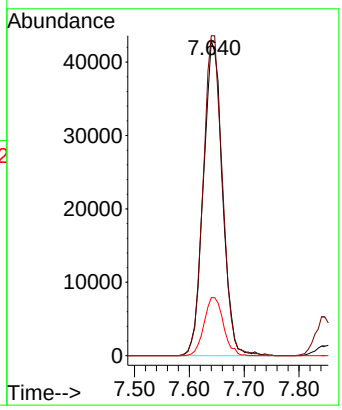




#35
Dibromofluoromethane
Concen: 46.982 ug/l
RT: 7.640 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion:113 Resp: 10327

Ion	Ratio	Lower	Upper
113	100		
111	102.4	82.6	123.8
192	18.8	15.2	22.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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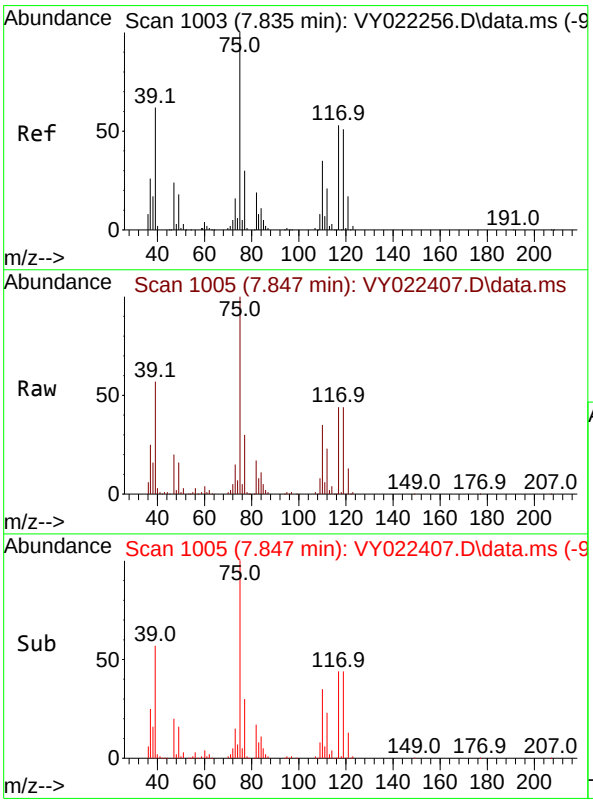
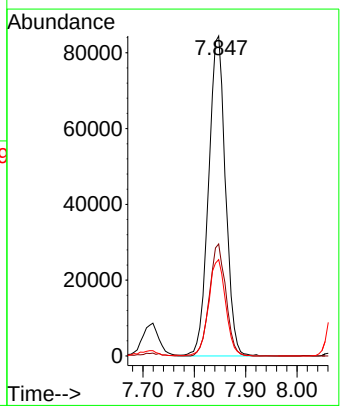
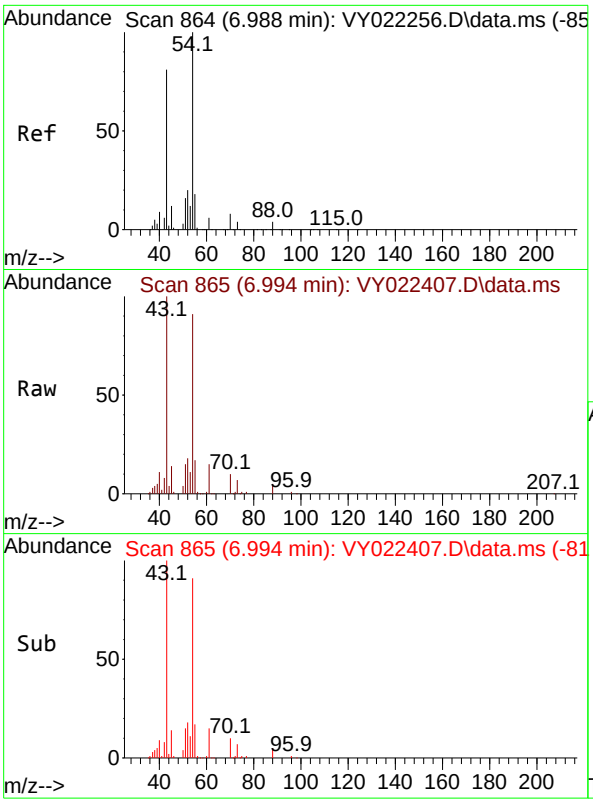


#36
1,1-Dichloropropene
Concen: 53.349 ug/l
RT: 7.847 min Scan# 1005
Delta R.T. 0.012 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 75 Resp: 193158

Ion	Ratio	Lower	Upper
75	100		
110	34.2	16.6	49.8
77	30.6	24.6	37.0





#37
Ethyl Acetate
Concen: 47.744 ug/l
RT: 6.994 min Scan# 8
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 43 Resp: 8317

Ion	Ratio	Lower	Upper
43	100		
61	15.3	10.2	15.2
70	9.9	7.6	11.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
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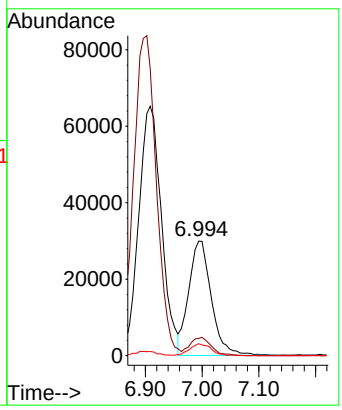
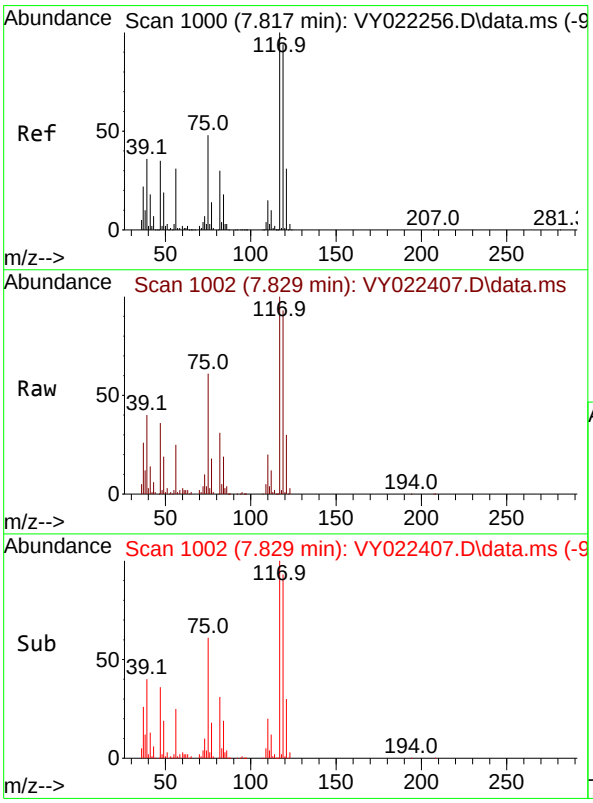
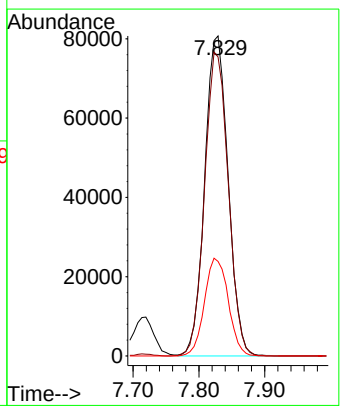


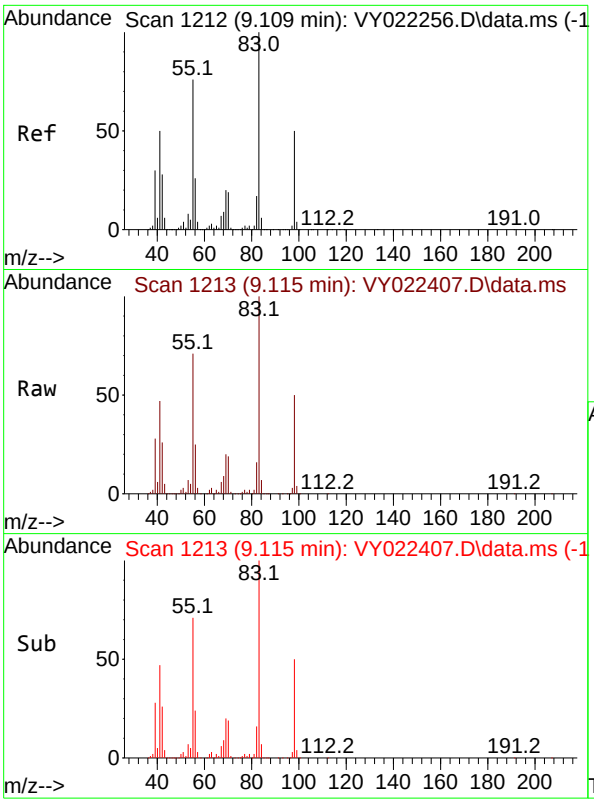


#38
Carbon Tetrachloride
Concen: 53.361 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. 0.012 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion:117 Resp: 199987

Ion	Ratio	Lower	Upper
117	100		
119	93.4	75.3	112.9
121	29.6	24.7	37.1





#39
Methylcyclohexane
Concen: 54.032 ug/l
RT: 9.115 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 83 Resp: 26282

Ion	Ratio	Lower	Upper
83	100		
55	71.1	60.6	90.8
98	49.6	40.0	60.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
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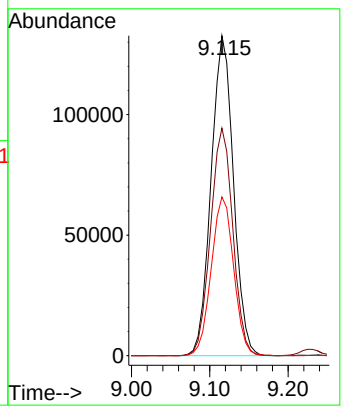
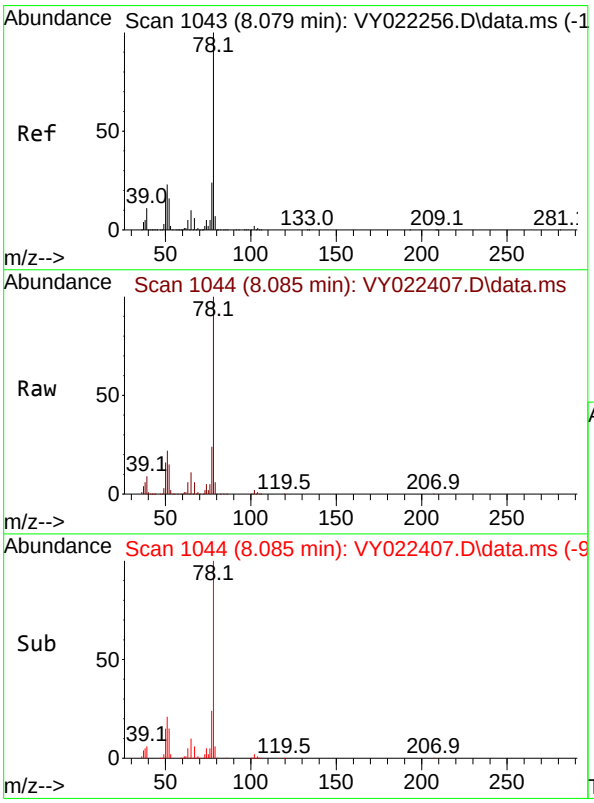
Reviewed By :Mahesh Dadoda 05/27/2025
Supervised By :Semsettin Yesilyurt 05/27/2025

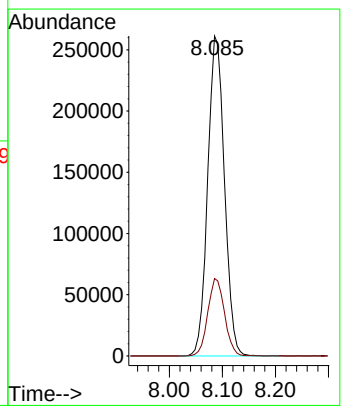


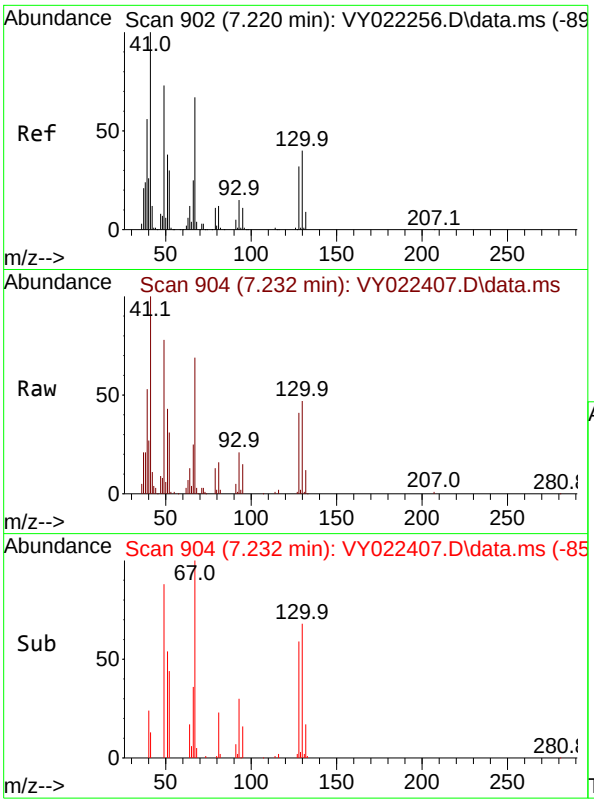


#40
Benzene
Concen: 53.342 ug/l
RT: 8.085 min Scan# 1044
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 78 Resp: 572541

Ion	Ratio	Lower	Upper
78	100		
77	24.2	18.9	28.3

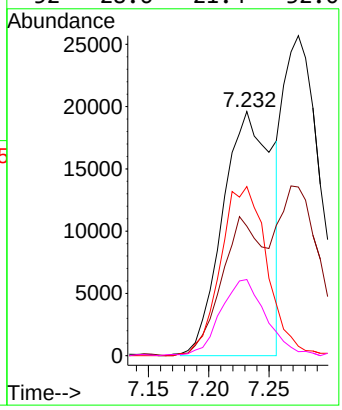




#41
Methacrylonitrile
Concen: 48.401 ug/l m
RT: 7.232 min Scan# 9
Delta R.T. 0.012 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 41 Resp: 5593

Ion	Ratio	Lower	Upper
41	100		
39	49.1	39.1	58.7
67	65.4	47.1	70.7
52	28.6	21.4	32.0



Instrument :
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ClientSampleId :
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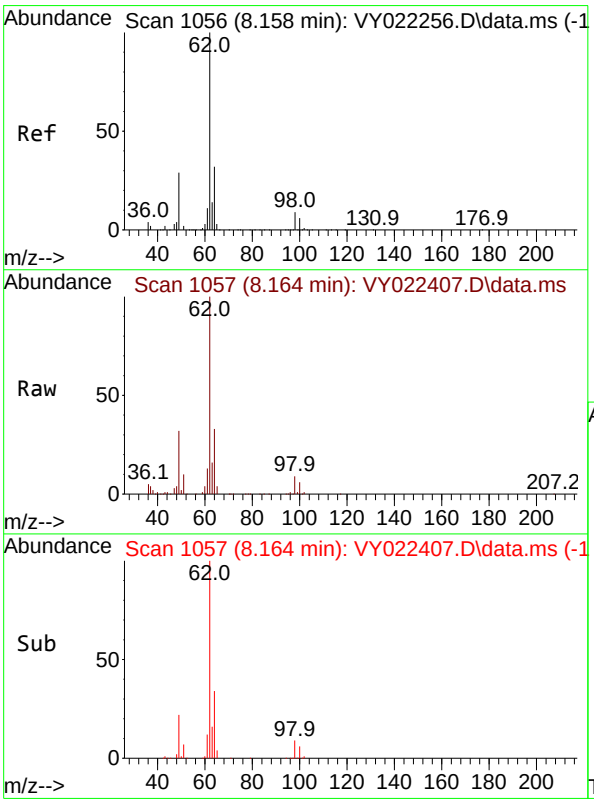
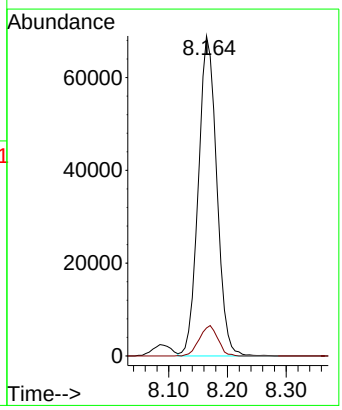
Reviewed By :Mahesh Dadoda 05/27/2025
Supervised By :Semsettin Yesilyurt 05/27/2025

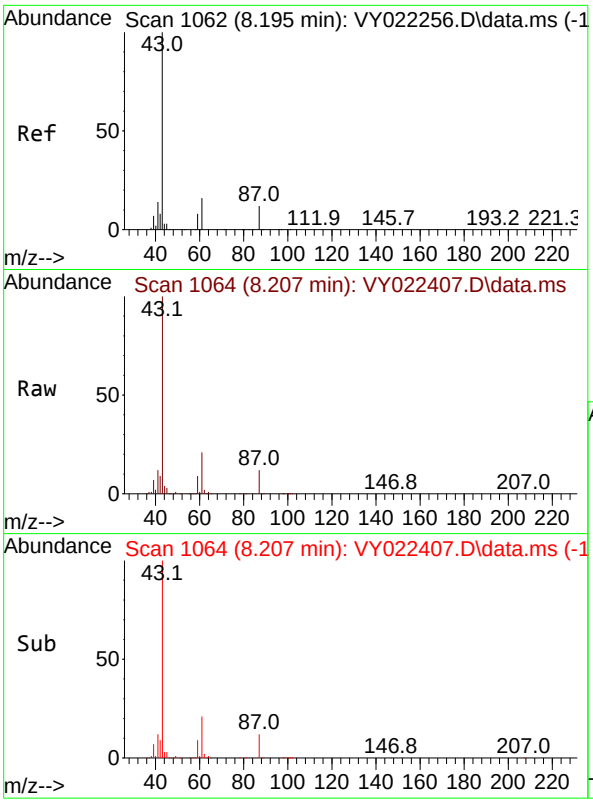


#42
1,2-Dichloroethane
Concen: 51.680 ug/l
RT: 8.164 min Scan# 1057
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 62 Resp: 150005

Ion	Ratio	Lower	Upper
62	100		
98	9.5	0.0	18.4

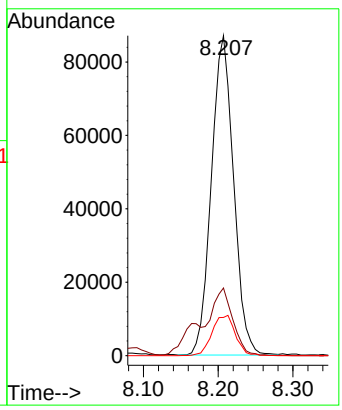




#43
Isopropyl Acetate
Concen: 47.424 ug/l
RT: 8.207 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 43 Resp: 18017

Ion	Ratio	Lower	Upper
43	100		
61	21.2	15.1	22.7
87	13.3	9.7	14.5



Instrument :
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ClientSampleId :
VSTDCCC050

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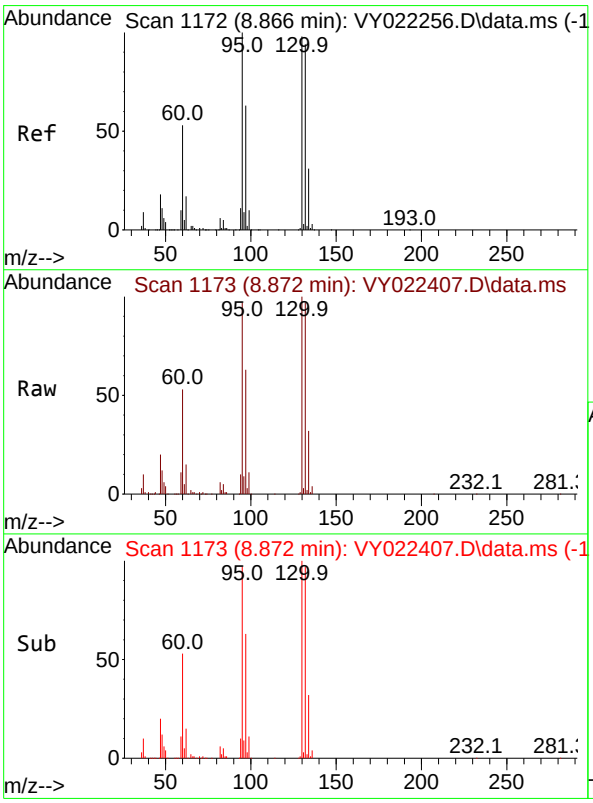
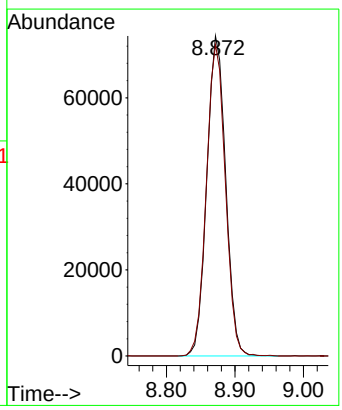
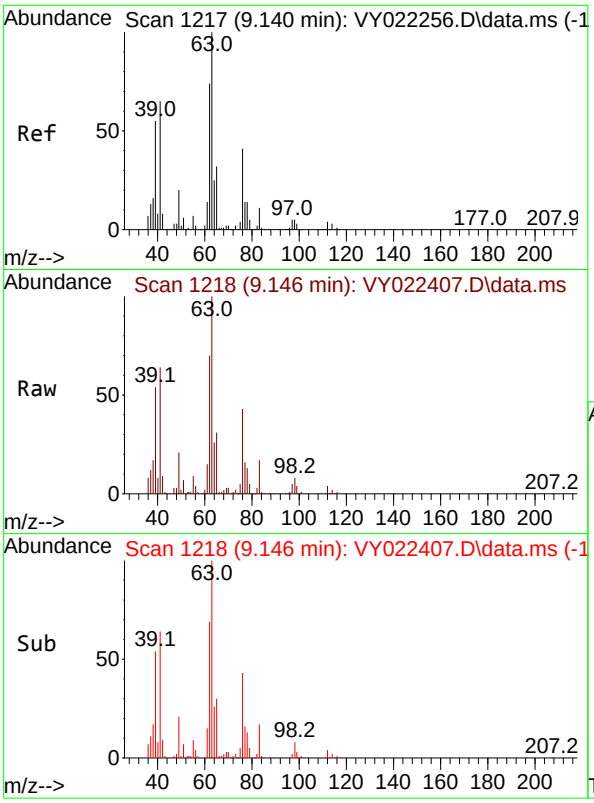


#44
Trichloroethene
Concen: 53.270 ug/l
RT: 8.872 min Scan# 1173
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion:130 Resp: 142169

Ion	Ratio	Lower	Upper
130	100		
95	97.3	0.0	204.8





#45
1,2-Dichloropropane
Concen: 51.695 ug/l
RT: 9.146 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 63 Resp: 13377

Ion	Ratio	Lower	Upper
63	100		
65	30.5	25.7	38.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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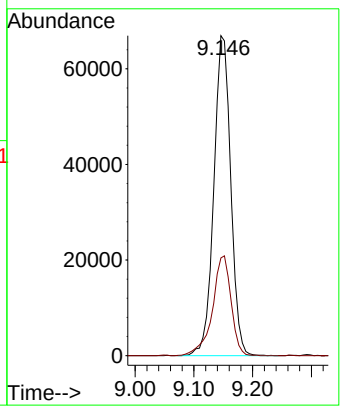
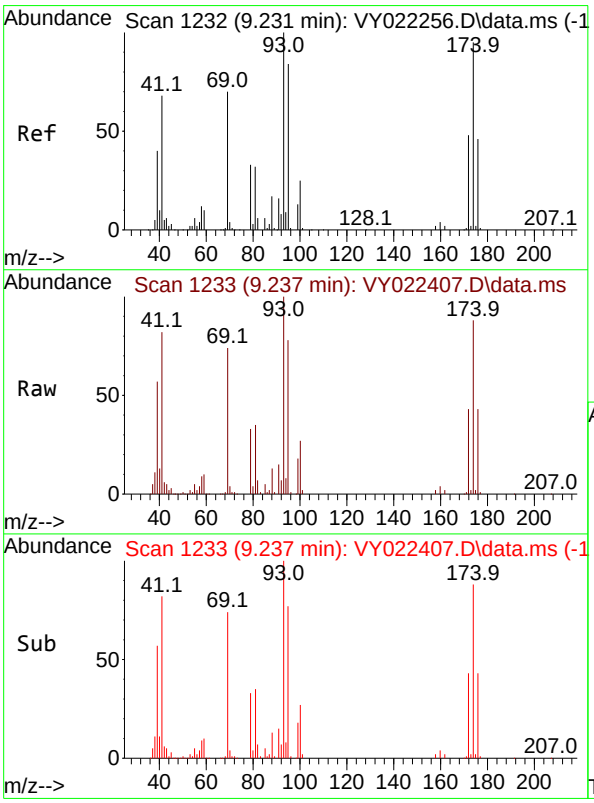
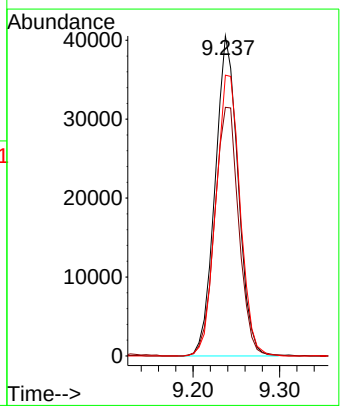


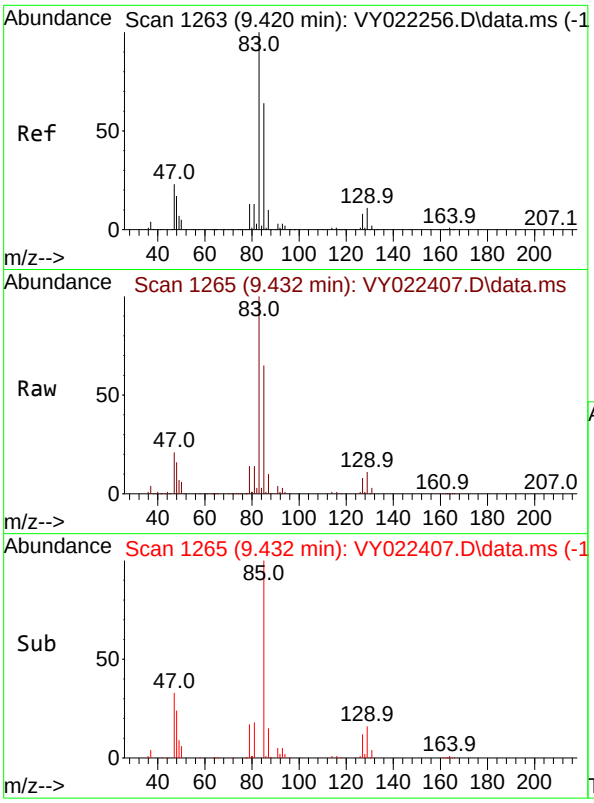


#46
Dibromomethane
Concen: 53.582 ug/l
RT: 9.237 min Scan# 1233
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 93 Resp: 74785

Ion	Ratio	Lower	Upper
93	100		
95	81.4	65.2	97.8
174	92.1	74.3	111.5

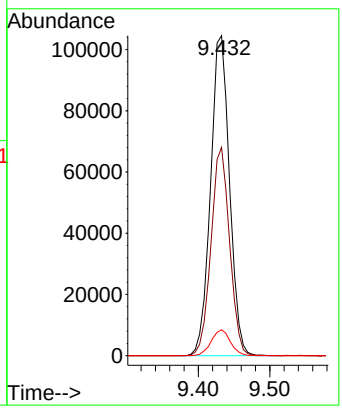




#47
Bromodichloromethane
Concen: 53.066 ug/l
RT: 9.432 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 83 Resp: 19214

Ion	Ratio	Lower	Upper
83	100		
85	65.1	51.1	76.7
127	8.1	6.6	10.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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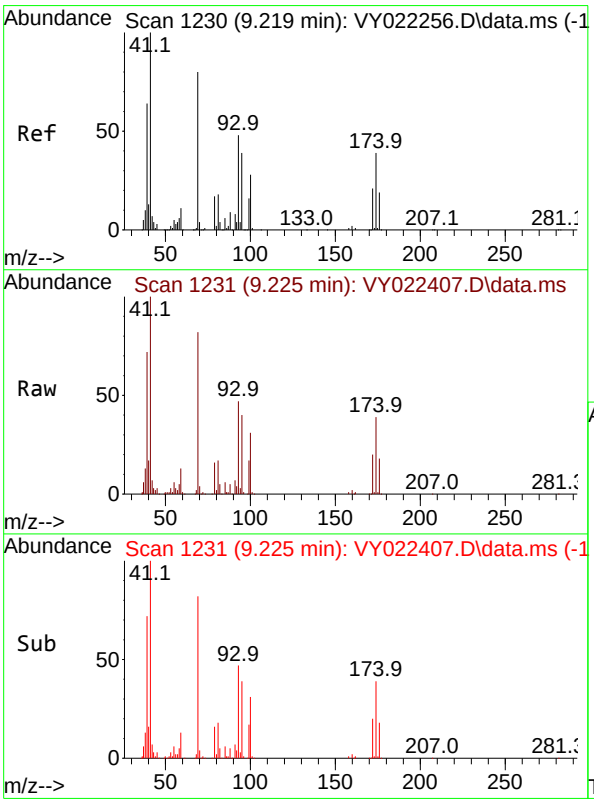
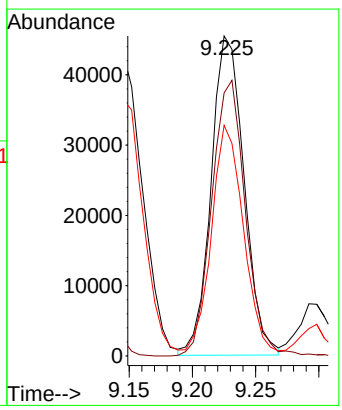
Supervised By :Semsettin Yesilyurt 05/27/2025

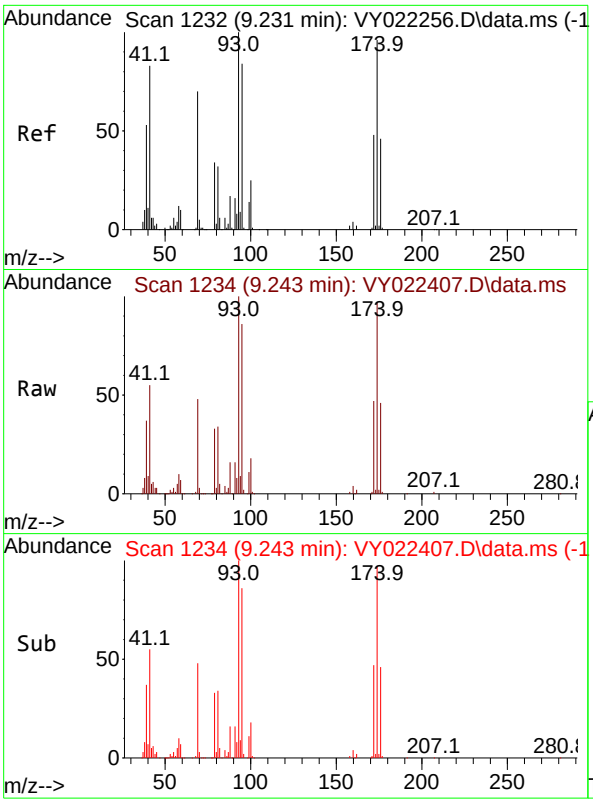


#48
Methyl methacrylate
Concen: 46.300 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 41 Resp: 82263

Ion	Ratio	Lower	Upper
41	100		
69	88.5	63.5	95.3
39	67.5	50.8	76.2

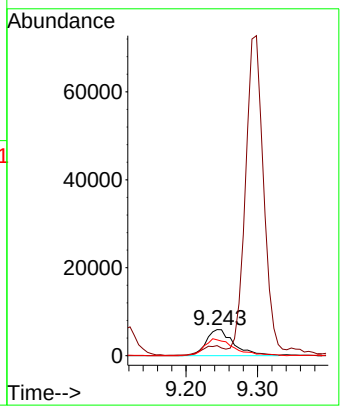




#49
1,4-Dioxane
Concen: 1012.465 ug/l
RT: 9.243 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 88 Resp: 1596

Ion	Ratio	Lower	Upper
88	100		
43	28.9	28.5	42.7
58	69.4	61.4	92.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
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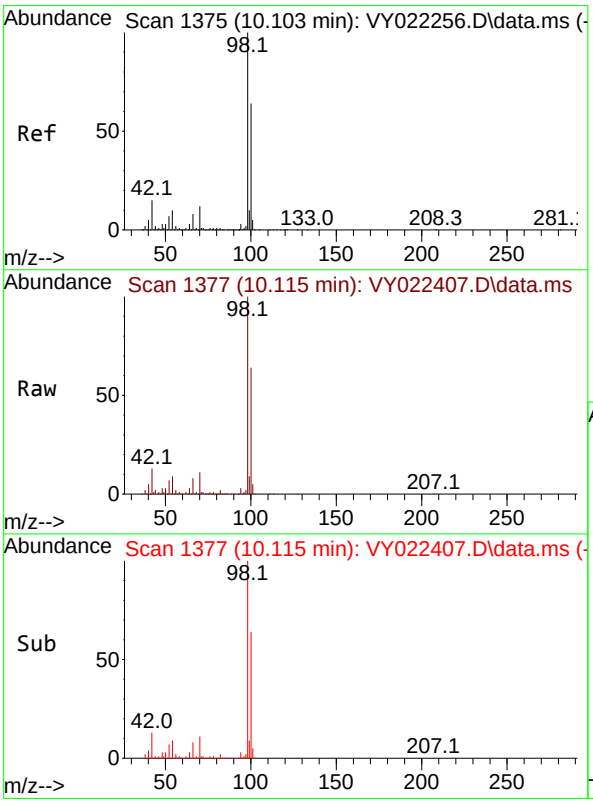
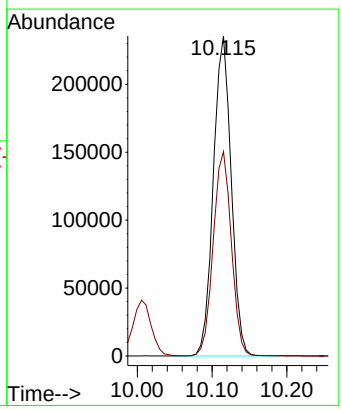
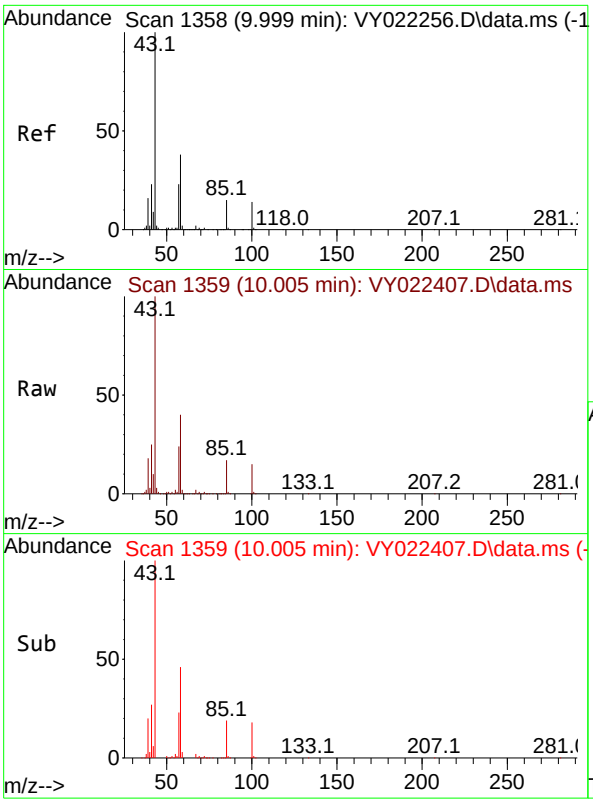


#50
Toluene-d8
Concen: 43.369 ug/l
RT: 10.115 min Scan# 1377
Delta R.T. 0.012 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 98 Resp: 390436

Ion	Ratio	Lower	Upper
98	100		
100	64.8	51.8	77.8

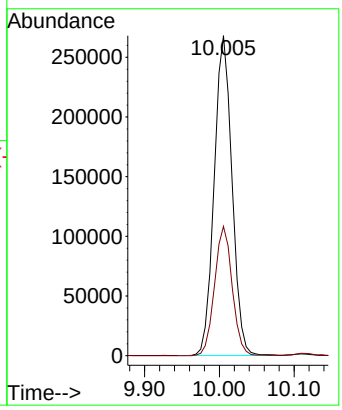




#51
4-Methyl-2-Pentanone
Concen: 238.329 ug/l
RT: 10.005 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 43 Resp: 44429

Ion	Ratio	Lower	Upper
43	100		
58	40.1	29.4	44.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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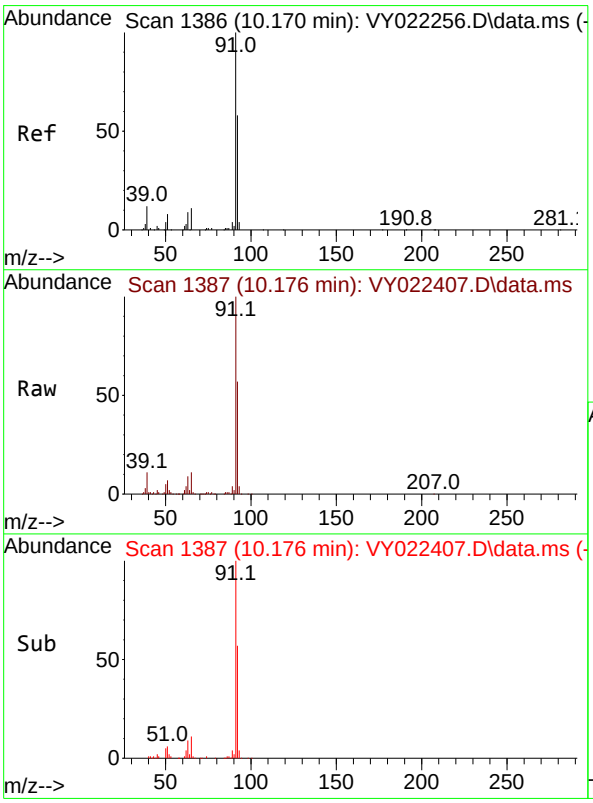
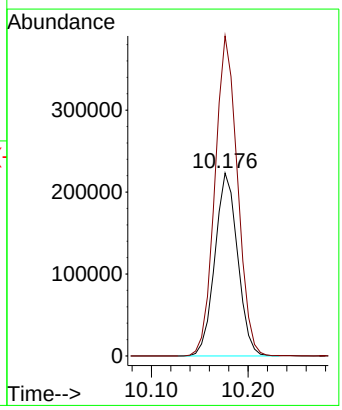
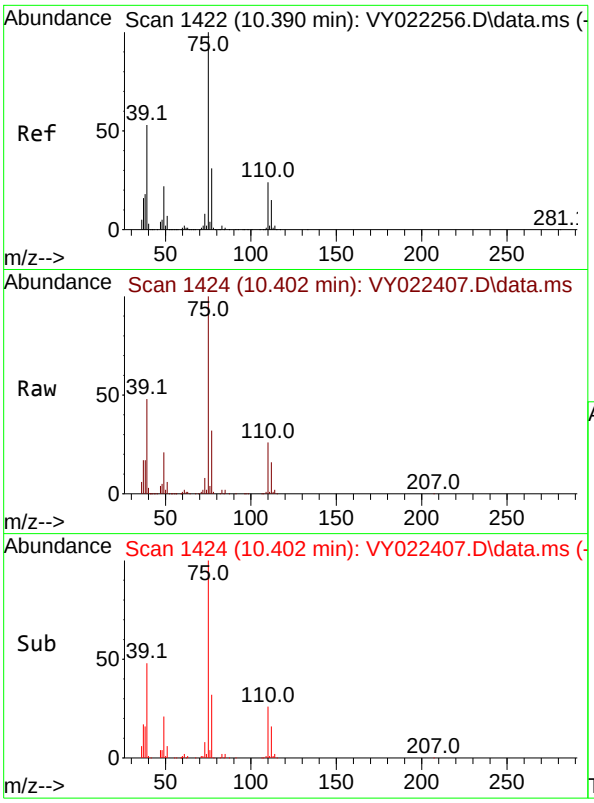


#52
Toluene
Concen: 53.527 ug/l
RT: 10.176 min Scan# 1387
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 92 Resp: 363814

Ion	Ratio	Lower	Upper
92	100		
91	174.4	139.1	208.7

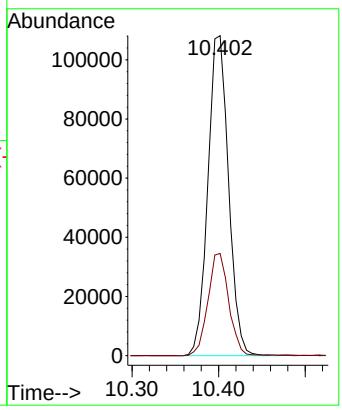




#53
t-1,3-Dichloropropene
Concen: 50.715 ug/l
RT: 10.402 min Scan# 14
Delta R.T. 0.012 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 75 Resp: 17920

Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.0	37.6



Instrument :
MSVOA_Y
ClientSampleId :
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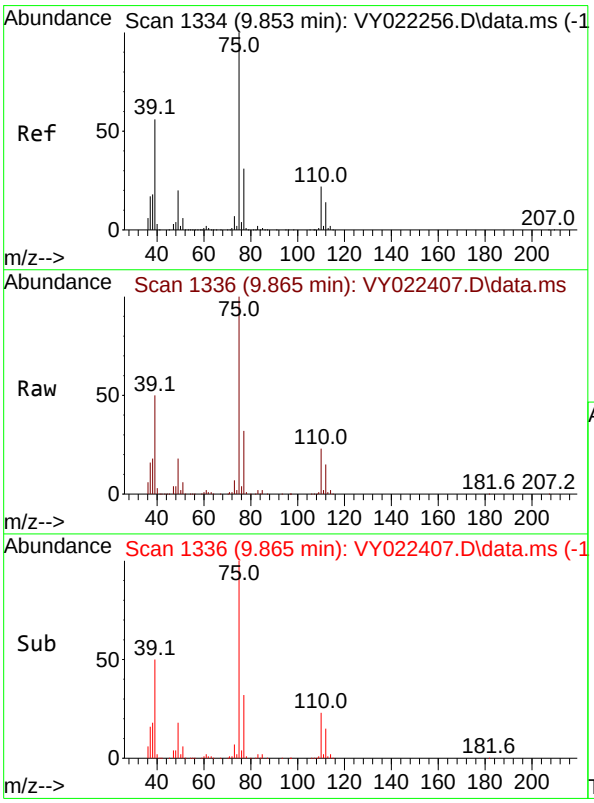
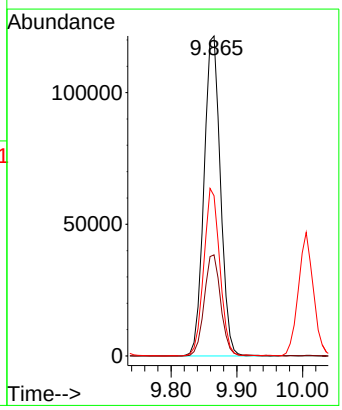
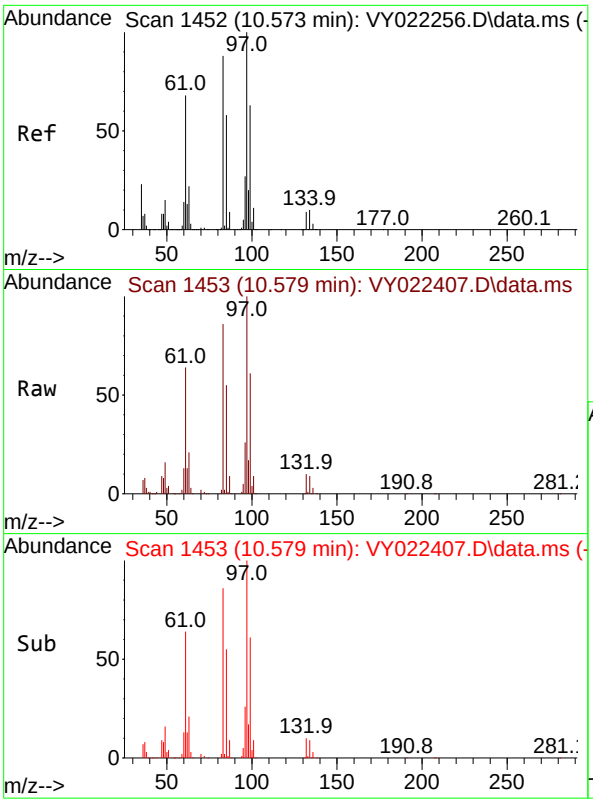


#54
cis-1,3-Dichloropropene
Concen: 52.261 ug/l
RT: 9.865 min Scan# 1336
Delta R.T. 0.012 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 75 Resp: 211578

Ion	Ratio	Lower	Upper
75	100		
77	31.6	25.1	37.7
39	50.0	44.5	66.7

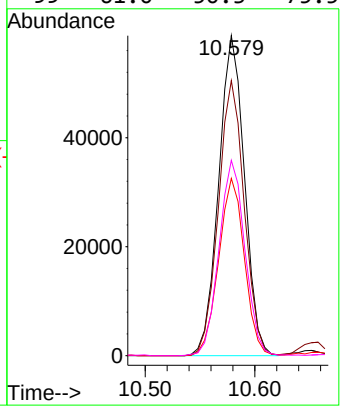




#55
1,1,2-Trichloroethane
Concen: 53.693 ug/l
RT: 10.579 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 97 Resp: 9596

Ion	Ratio	Lower	Upper
97	100		
83	86.0	70.3	105.5
85	55.4	46.2	69.4
99	61.0	50.3	75.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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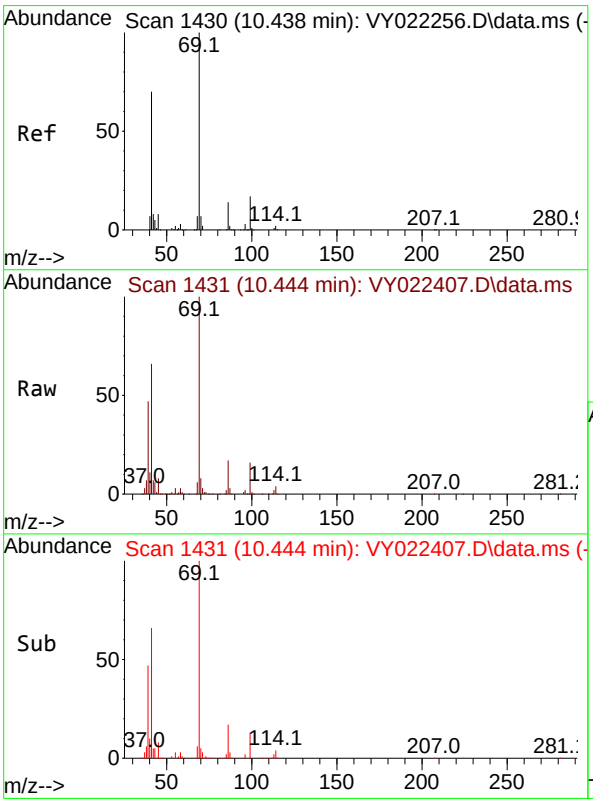
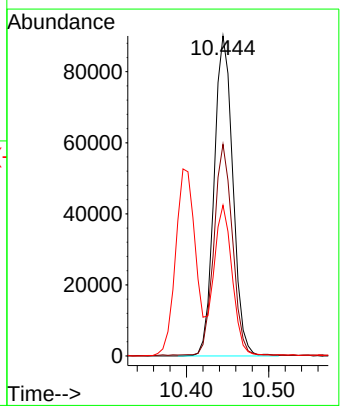
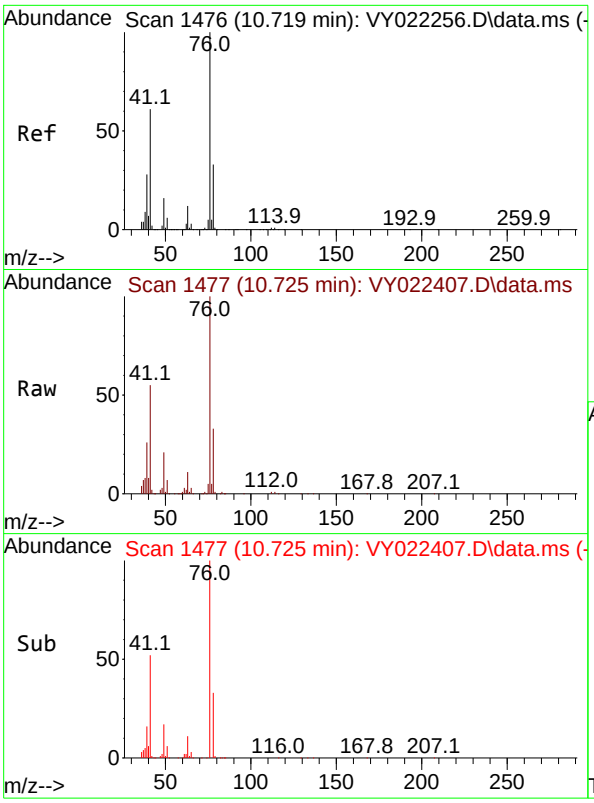


#56
Ethyl methacrylate
Concen: 51.400 ug/l
RT: 10.444 min Scan# 1431
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 69 Resp: 143099

Ion	Ratio	Lower	Upper
69	100		
41	65.4	56.5	84.7
39	46.3	37.1	55.7





#57
1,3-Dichloropropane
Concen: 53.037 ug/l
RT: 10.725 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 76 Resp: 16842

Ion	Ratio	Lower	Upper
76	100		
78	32.0	25.8	38.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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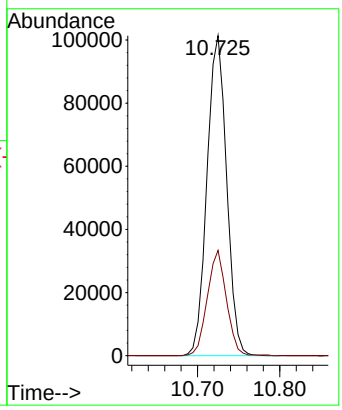
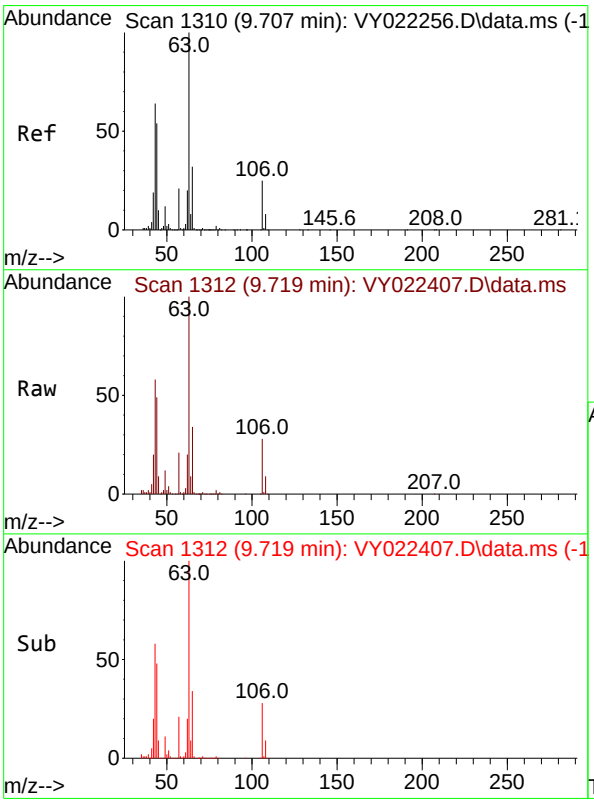
Reviewed By :Mahesh Dadoda 05/27/2025
Supervised By :Semsettin Yesilyurt 05/27/2025

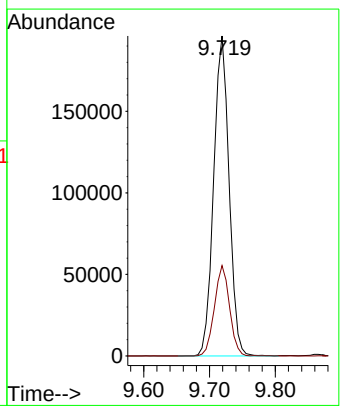


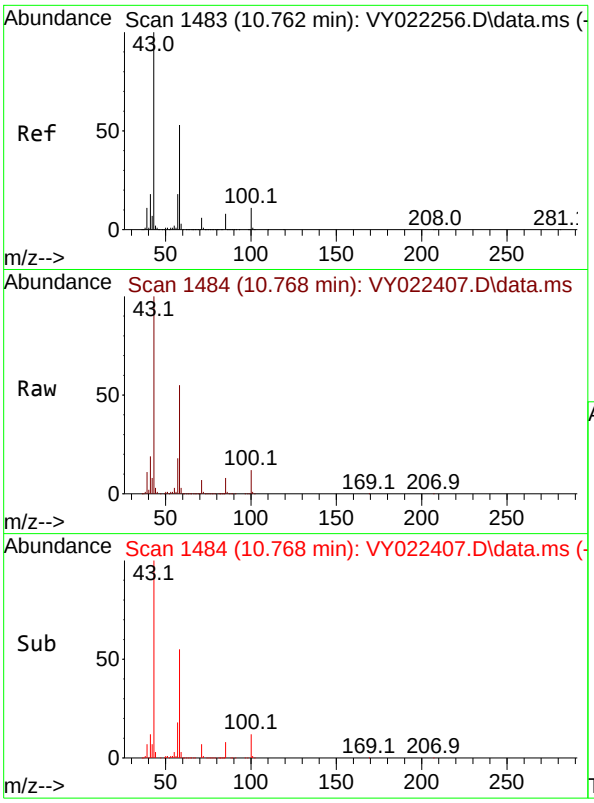


#58
2-Chloroethyl Vinyl ether
Concen: 255.904 ug/l
RT: 9.719 min Scan# 1312
Delta R.T. 0.012 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 63 Resp: 319778

Ion	Ratio	Lower	Upper
63	100		
106	27.7	21.0	31.4





#59
2-Hexanone
Concen: 244.413 ug/l
RT: 10.768 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 43 Resp: 30549

Ion	Ratio	Lower	Upper
43	100		
58	55.2	26.1	78.3

Instrument :
MSVOA_Y
ClientSampleId :
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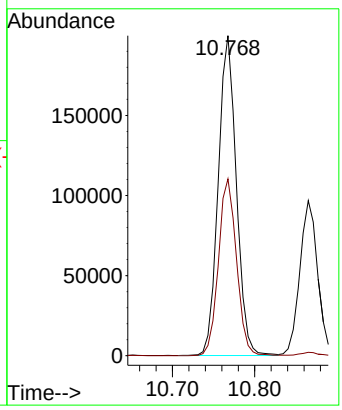
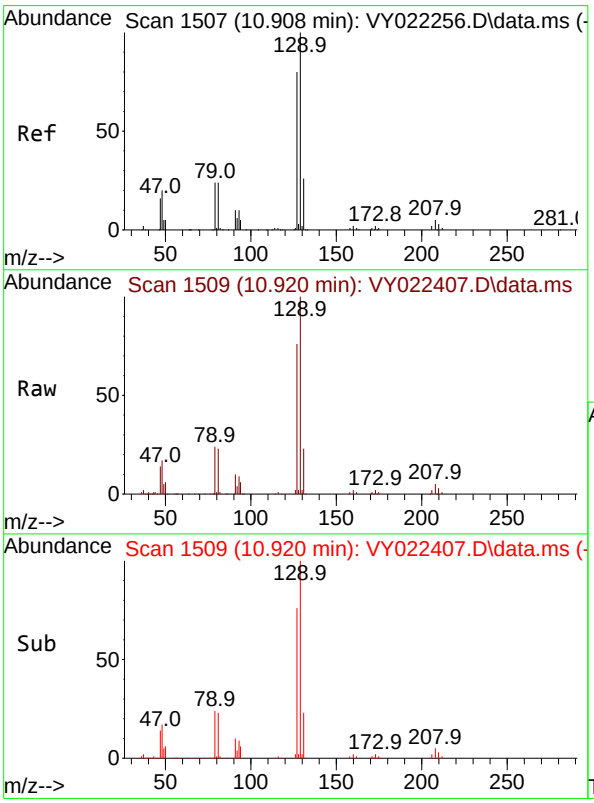
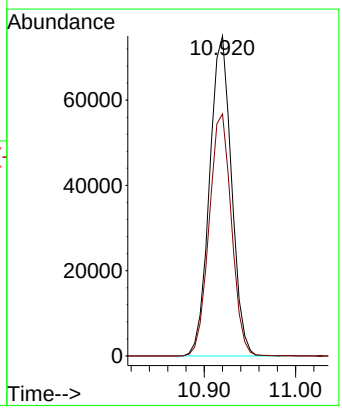


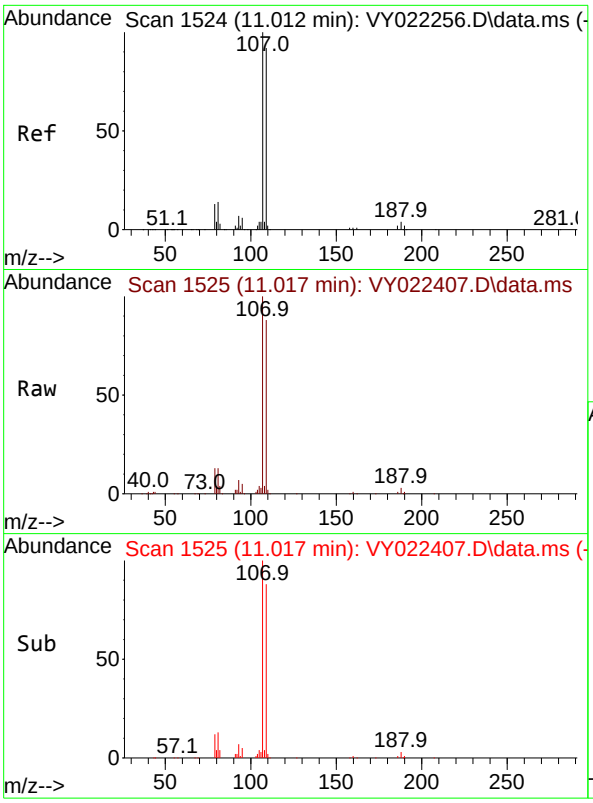


#60
Dibromochloromethane
Concen: 53.868 ug/l
RT: 10.920 min Scan# 1509
Delta R.T. 0.012 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion:129 Resp: 124963

Ion	Ratio	Lower	Upper
129	100		
127	76.9	38.6	115.7

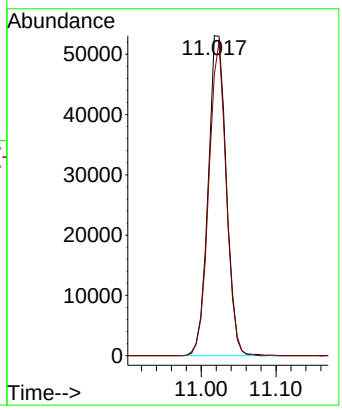




#61
1,2-Dibromoethane
Concen: 53.833 ug/l
RT: 11.017 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion:107 Resp: 8967

Ion	Ratio	Lower	Upper
107	100		
109	93.9	74.6	111.8



Instrument :
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ClientSampleId :
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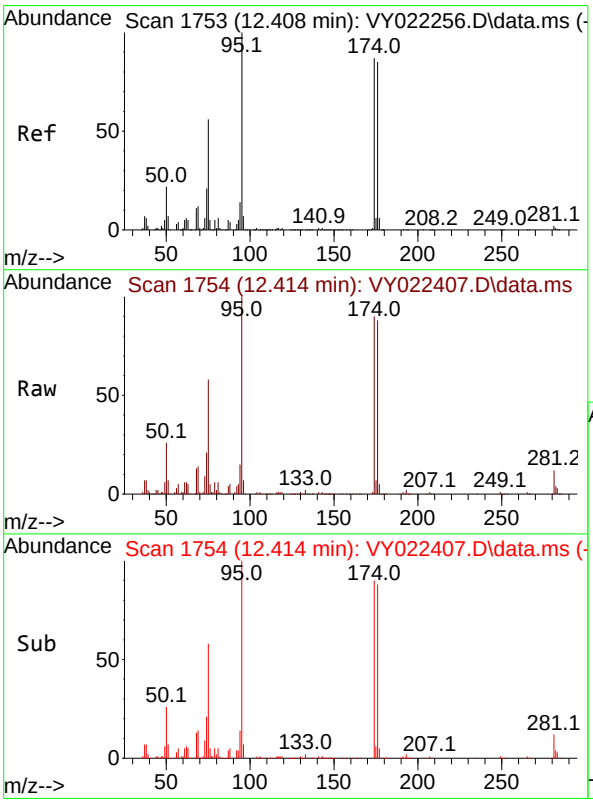
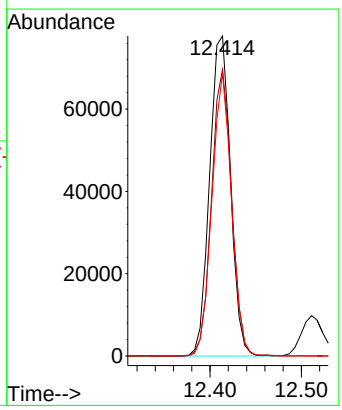
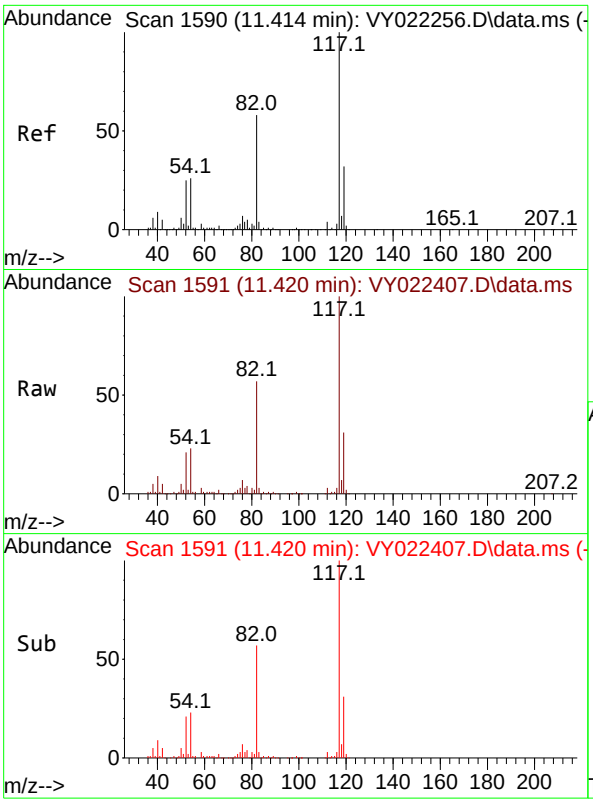


#62
4-Bromofluorobenzene
Concen: 43.119 ug/l
RT: 12.414 min Scan# 1754
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 95 Resp: 123042

Ion	Ratio	Lower	Upper
95	100		
174	86.5	0.0	166.8
176	83.2	0.0	160.8

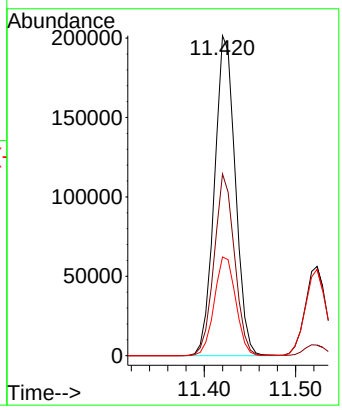




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion:117 Resp: 31971

Ion	Ratio	Lower	Upper
117	100		
82	56.8	46.6	70.0
119	30.8	25.8	38.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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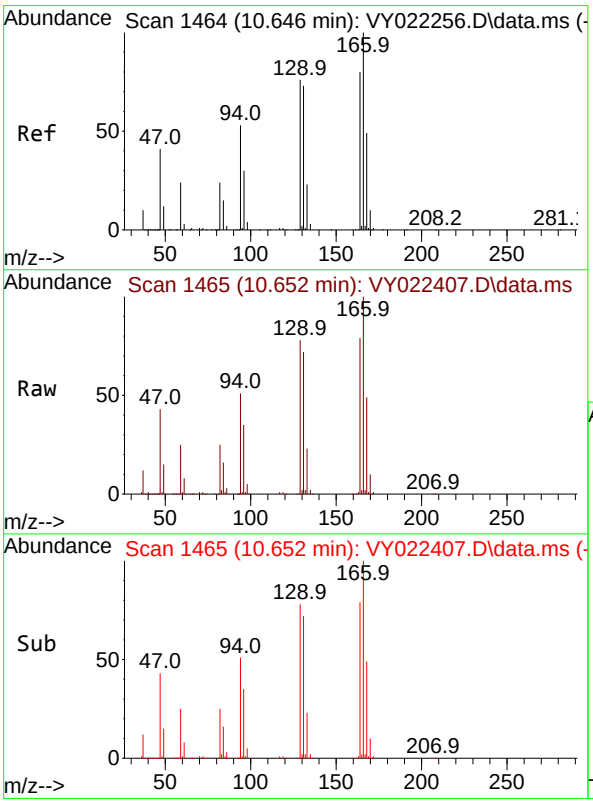
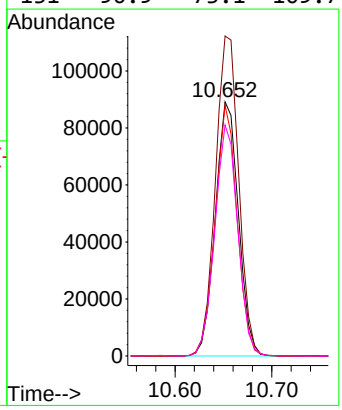
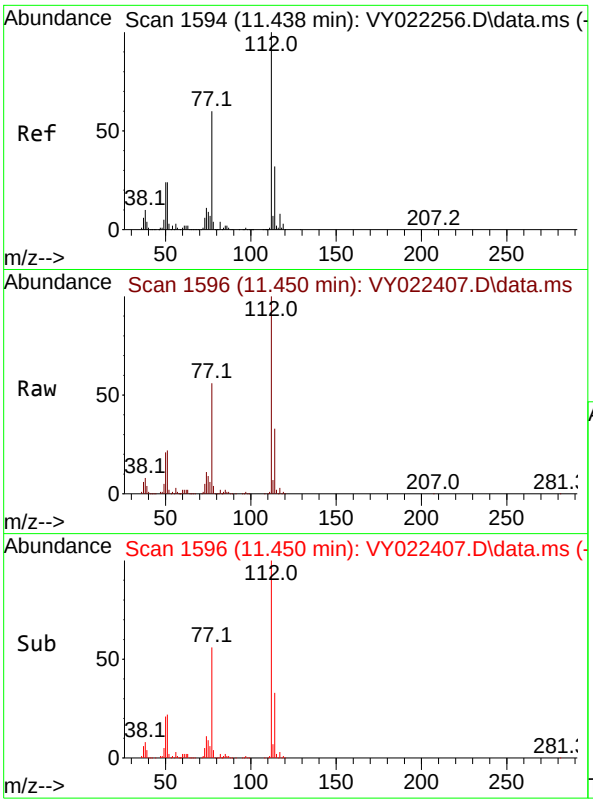


#64
Tetrachloroethene
Concen: 50.091 ug/l
RT: 10.652 min Scan# 1465
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion:164 Resp: 148025

Ion	Ratio	Lower	Upper
164	100		
166	125.9	100.4	150.6
129	98.6	76.4	114.6
131	90.9	73.1	109.7

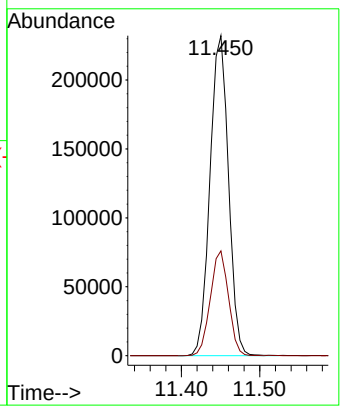




#65
Chlorobenzene
Concen: 52.815 ug/l
RT: 11.450 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion:112 Resp: 38095

Ion	Ratio	Lower	Upper
112	100		
114	32.7	25.8	38.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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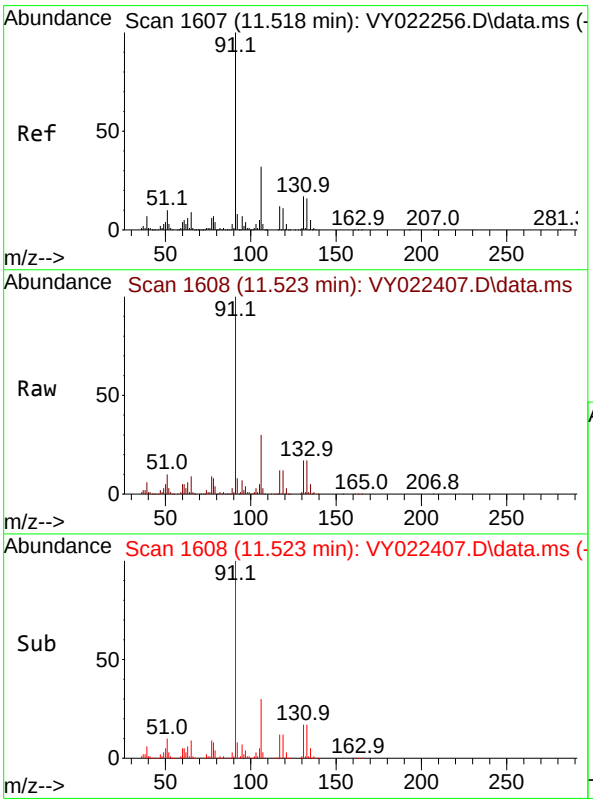
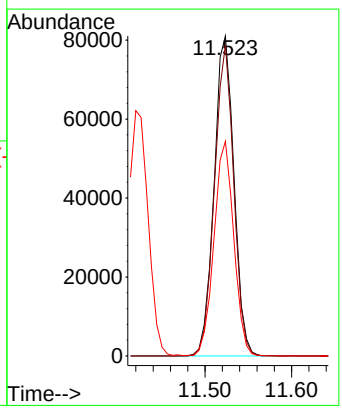
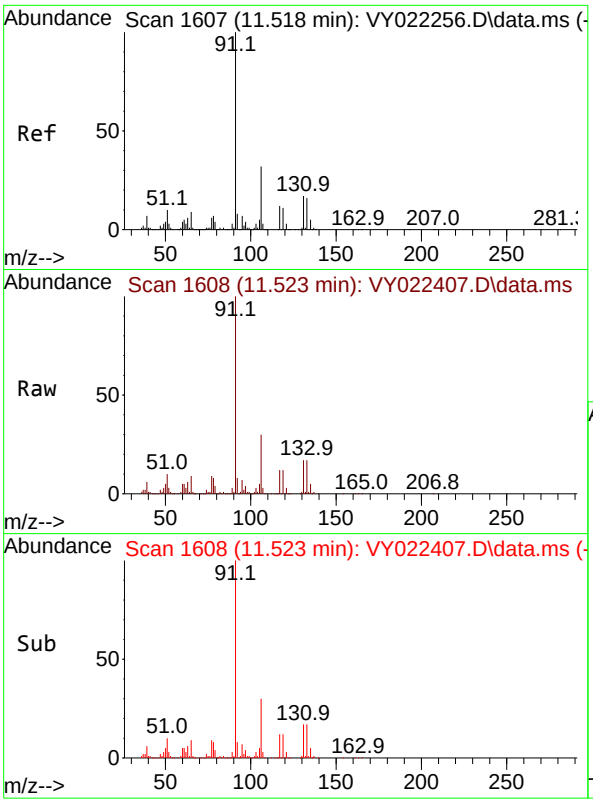


#66
1,1,1,2-Tetrachloroethane
Concen: 52.064 ug/l
RT: 11.523 min Scan# 1608
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion:131 Resp: 129105

Ion	Ratio	Lower	Upper
131	100		
133	94.1	47.3	141.9
119	66.9	33.1	99.2

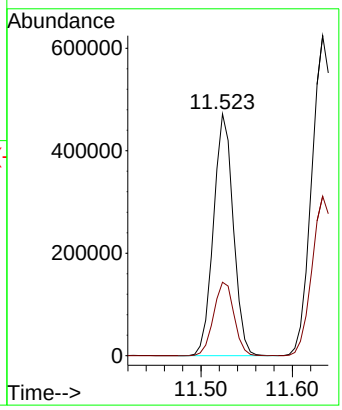




#67
Ethyl Benzene
Concen: 52.532 ug/l
RT: 11.523 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 91 Resp: 70963

Ion	Ratio	Lower	Upper
91	100		
106	30.4	25.4	38.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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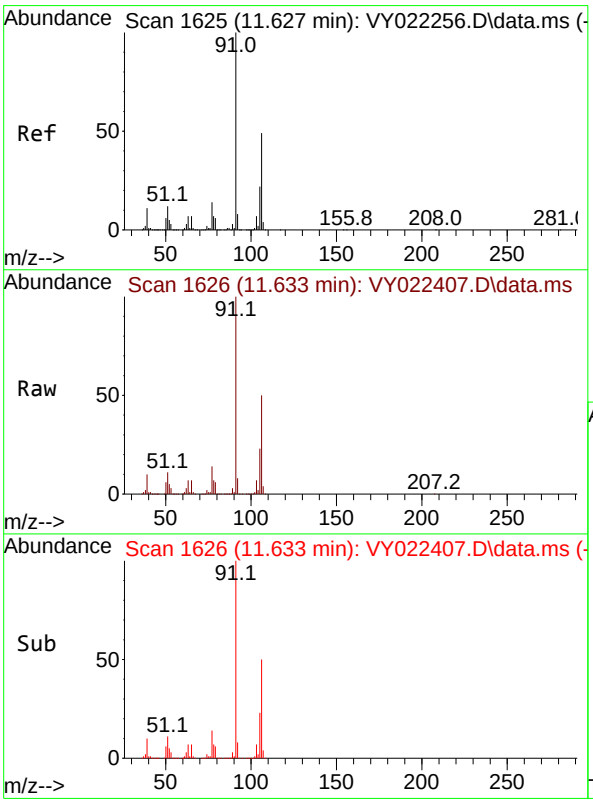
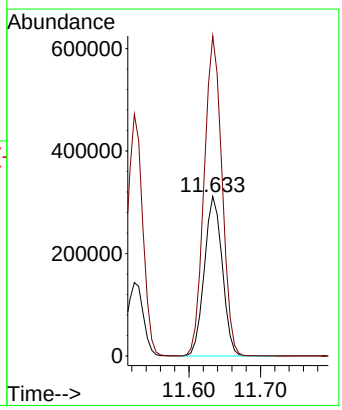
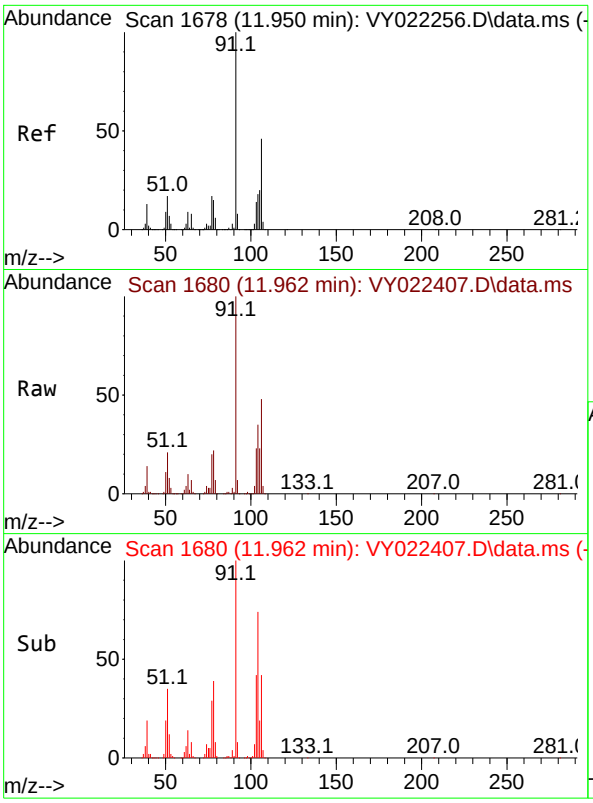


#68
m/p-Xylenes
Concen: 106.314 ug/l
RT: 11.633 min Scan# 1626
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion:106 Resp: 541165

Ion	Ratio	Lower	Upper
106	100		
91	199.9	163.0	244.4

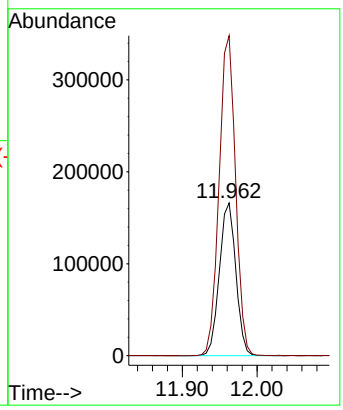




#69
o-Xylene
Concen: 52.908 ug/l
RT: 11.962 min Scan# 1(
Delta R.T. 0.012 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion:106 Resp: 25480(

Ion	Ratio	Lower	Upper
106	100		
91	209.5	108.3	324.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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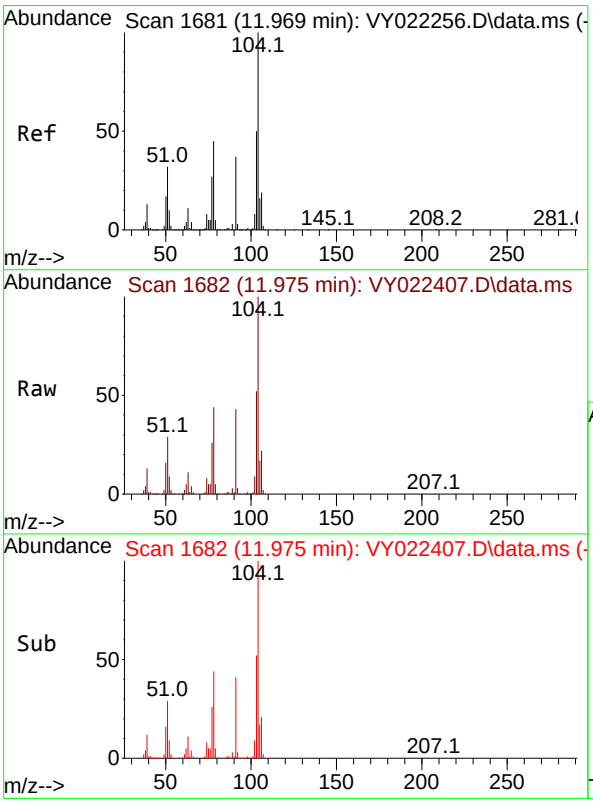
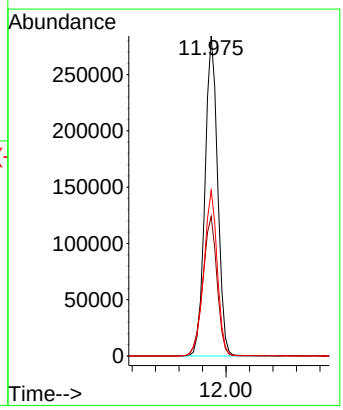
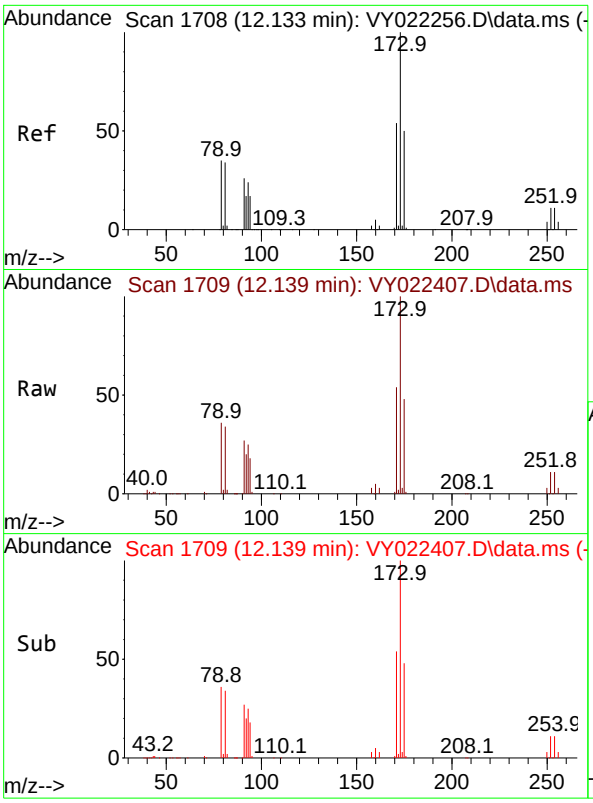


#70
Styrene
Concen: 52.512 ug/l
RT: 11.975 min Scan# 1682
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion:104 Resp: 426601

Ion	Ratio	Lower	Upper
104	100		
78	48.5	40.9	61.3
103	54.9	43.7	65.5

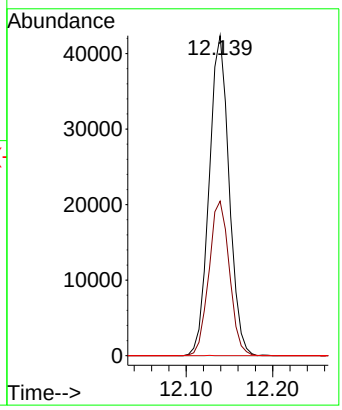




#71
Bromoform
Concen: 50.619 ug/l
RT: 12.139 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion:173 Resp: 6775

Ion	Ratio	Lower	Upper
173	100		
175	49.6	24.7	74.1
254	0.0	0.0	0.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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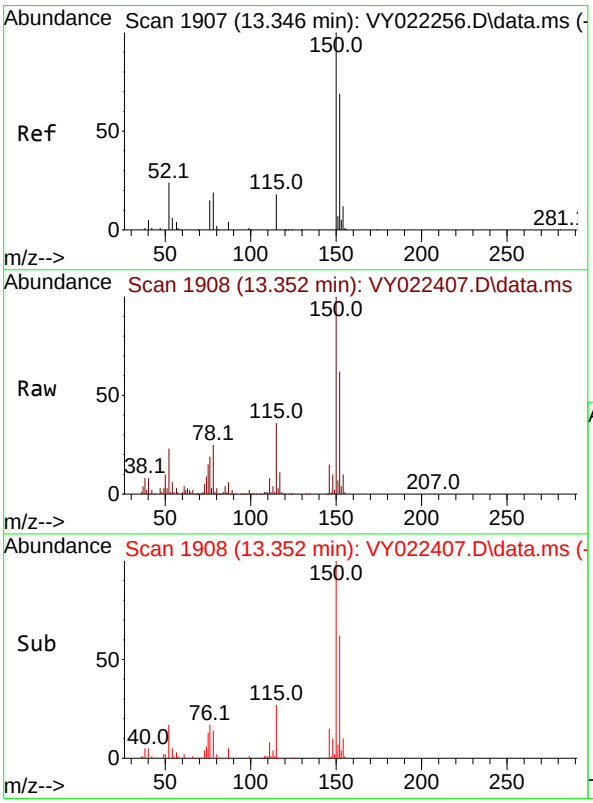
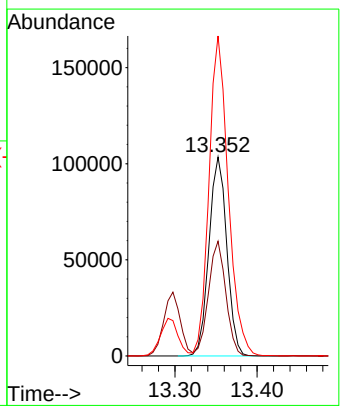
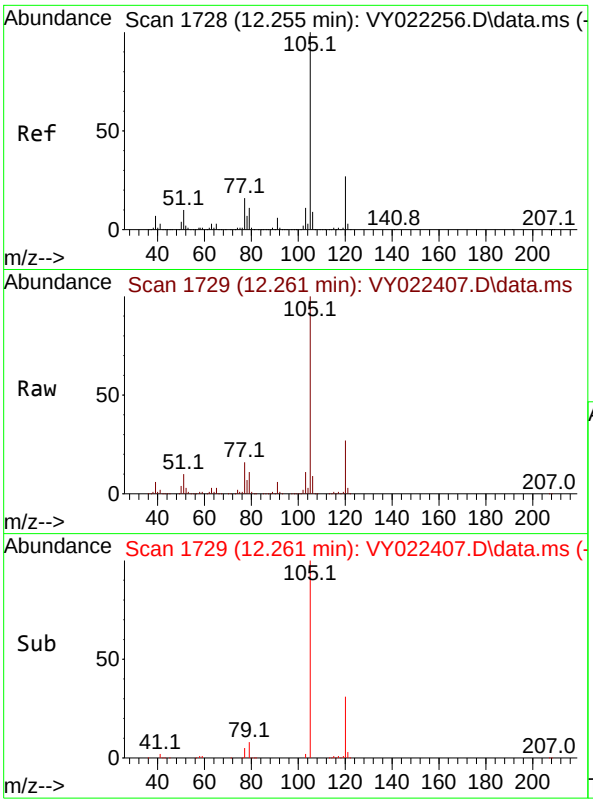


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.352 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion:152 Resp: 156128

Ion	Ratio	Lower	Upper
152	100		
115	56.2	29.4	88.2
150	173.2	0.0	353.8

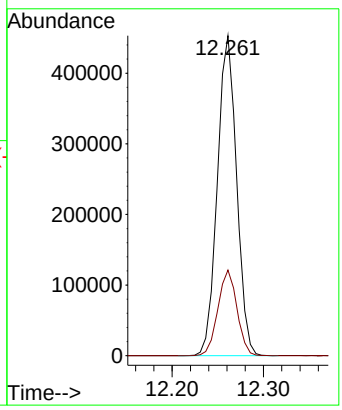




#73
Isopropylbenzene
Concen: 51.371 ug/l
RT: 12.261 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion:105 Resp: 66445

Ion	Ratio	Lower	Upper
105	100		
120	26.4	13.2	39.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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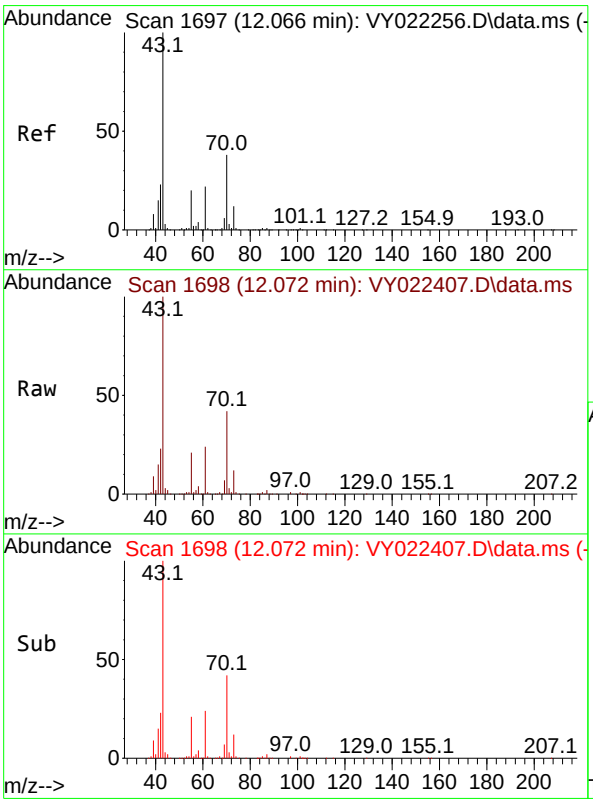
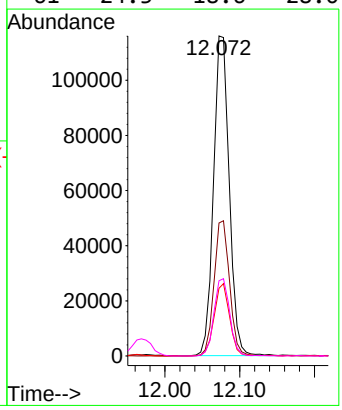
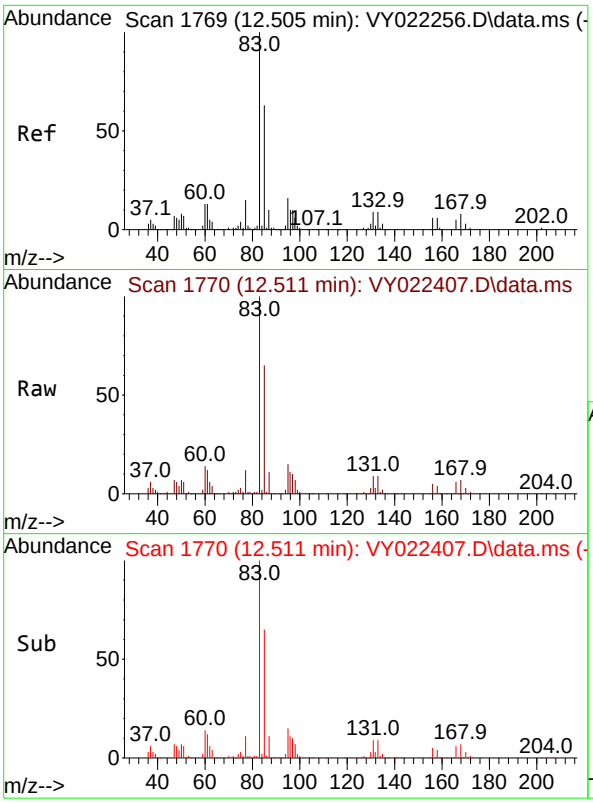


#74
N-amyl acetate
Concen: 45.779 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 43 Resp: 169349

Ion	Ratio	Lower	Upper
43	100		
70	41.8	31.4	47.0
55	22.3	17.0	25.6
61	24.3	18.6	28.0

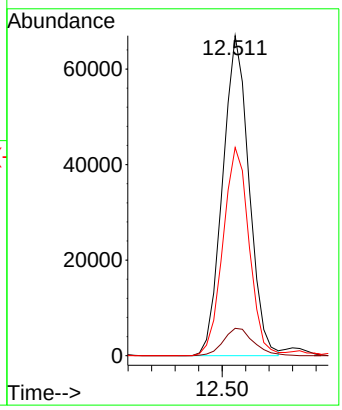




#75
1,1,2,2-Tetrachloroethane
Concen: 52.437 ug/l
RT: 12.511 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 83 Resp: 10430

Ion	Ratio	Lower	Upper
83	100		
131	9.8	4.9	14.7
85	64.6	32.0	96.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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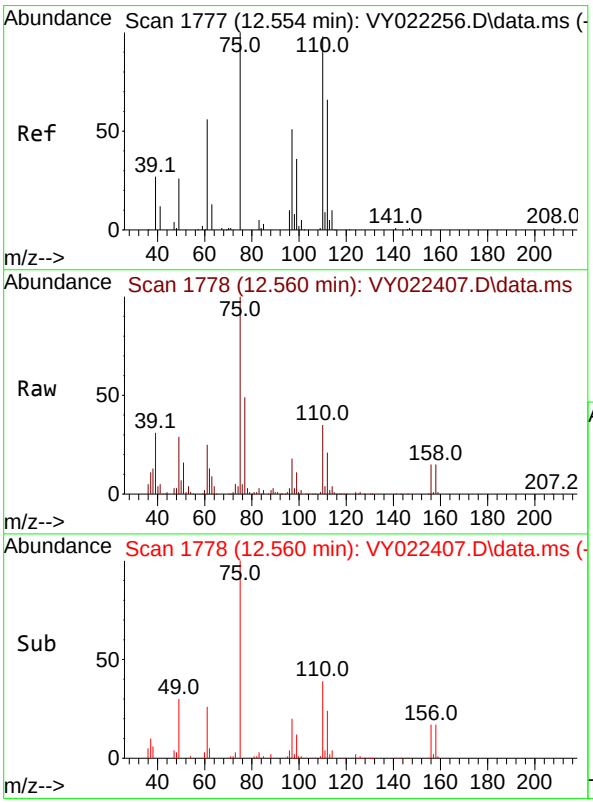
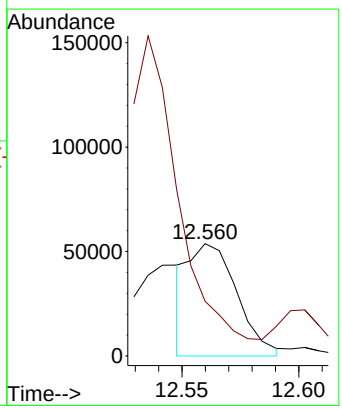
Reviewed By :Mahesh Dadoda 05/27/2025
Supervised By :Semsettin Yesilyurt 05/27/2025

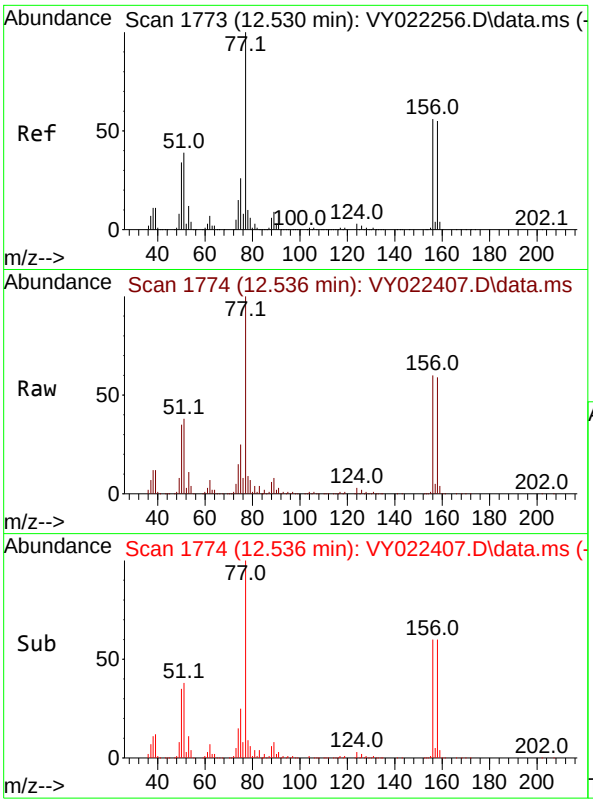


#76
1,2,3-Trichloropropane
Concen: 49.038 ug/l m
RT: 12.560 min Scan# 1778
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 75 Resp: 77565

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

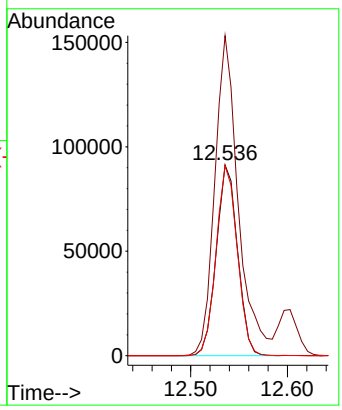




#77
Bromobenzene
Concen: 50.501 ug/l
RT: 12.536 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion:156 Resp: 13951

Ion	Ratio	Lower	Upper
156	100		
77	185.6	94.5	283.6
158	99.4	48.4	145.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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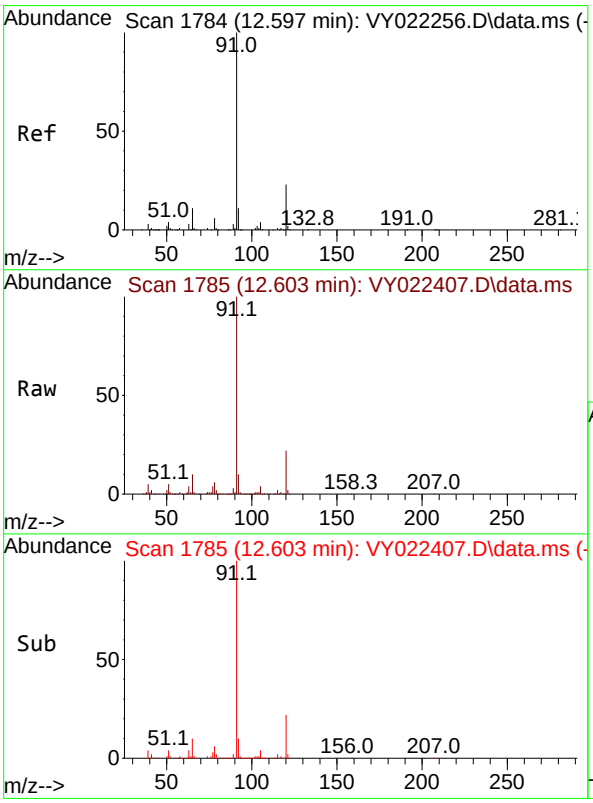
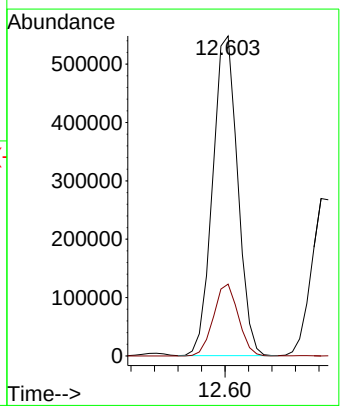
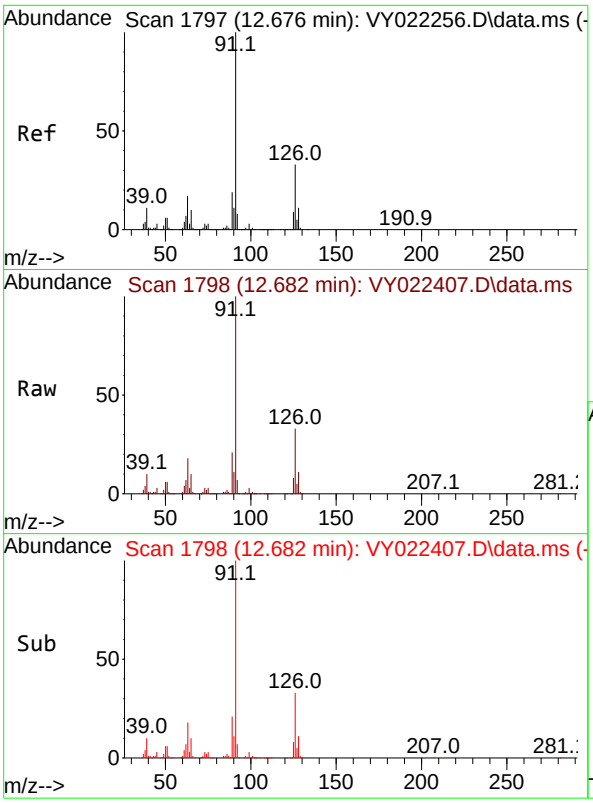


#78
n-propylbenzene
Concen: 51.904 ug/l
RT: 12.603 min Scan# 1785
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 91 Resp: 809774

Ion	Ratio	Lower	Upper
91	100		
120	22.3	11.1	33.3

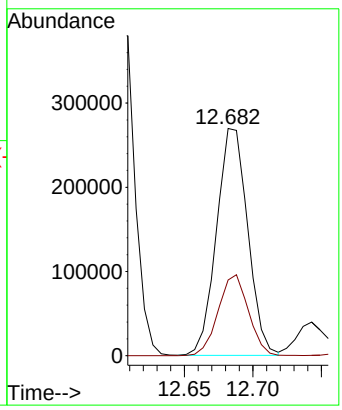




#79
2-Chlorotoluene
Concen: 49.921 ug/l
RT: 12.682 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 91 Resp: 42799

Ion	Ratio	Lower	Upper
91	100		
126	34.5	16.8	50.4



Instrument :
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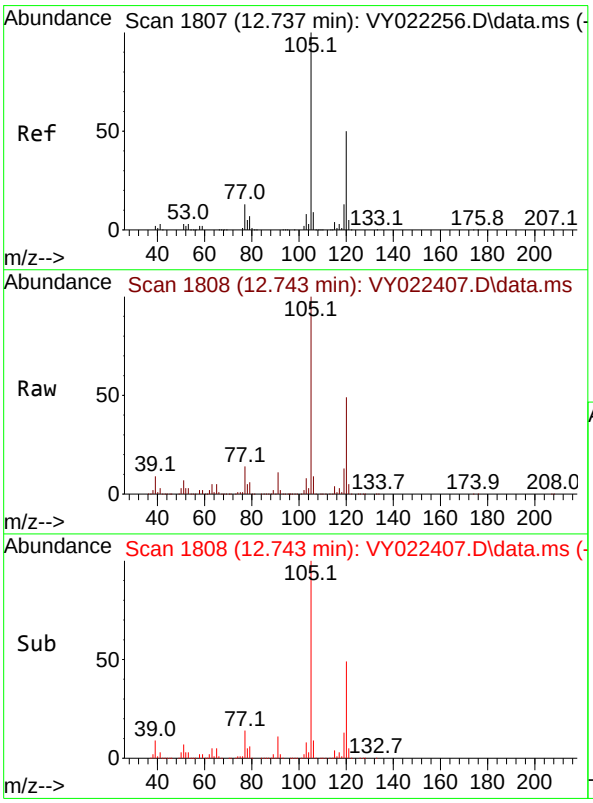
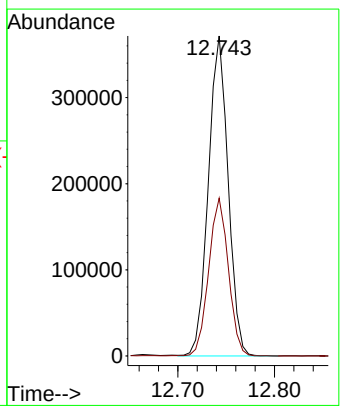
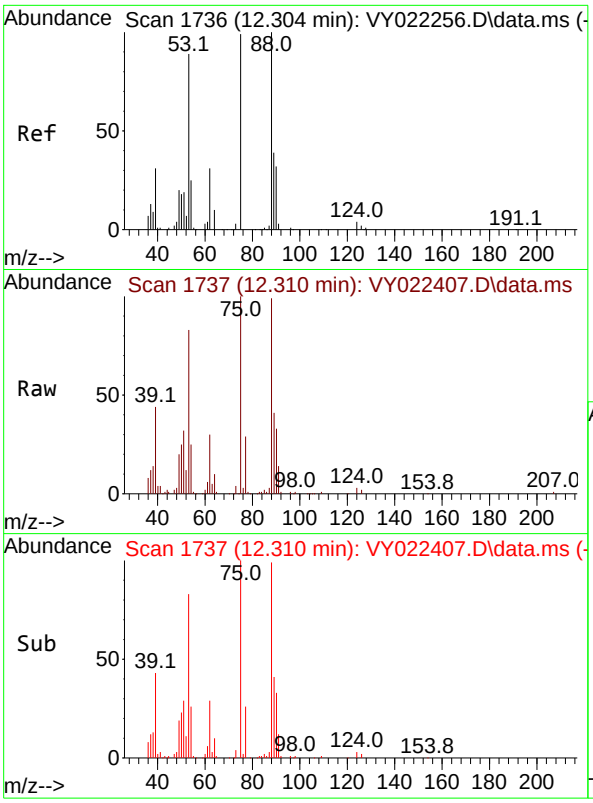


#80
1,3,5-Trimethylbenzene
Concen: 50.370 ug/l
RT: 12.743 min Scan# 1808
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion:105 Resp: 525917

Ion	Ratio	Lower	Upper
105	100		
120	49.4	24.2	72.6





#81
trans-1,4-Dichloro-2-butene
Concen: 47.111 ug/l
RT: 12.310 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 75 Resp: 3678

Ion	Ratio	Lower	Upper
75	100		
53	90.7	75.8	113.8
89	44.4	36.2	54.2

Instrument :
MSVOA_Y
ClientSampleId :
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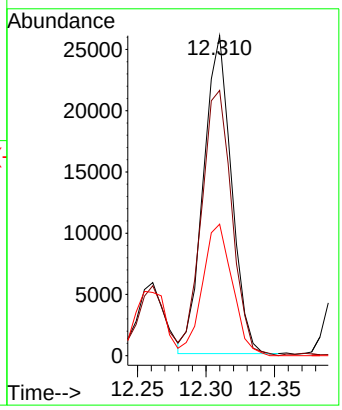
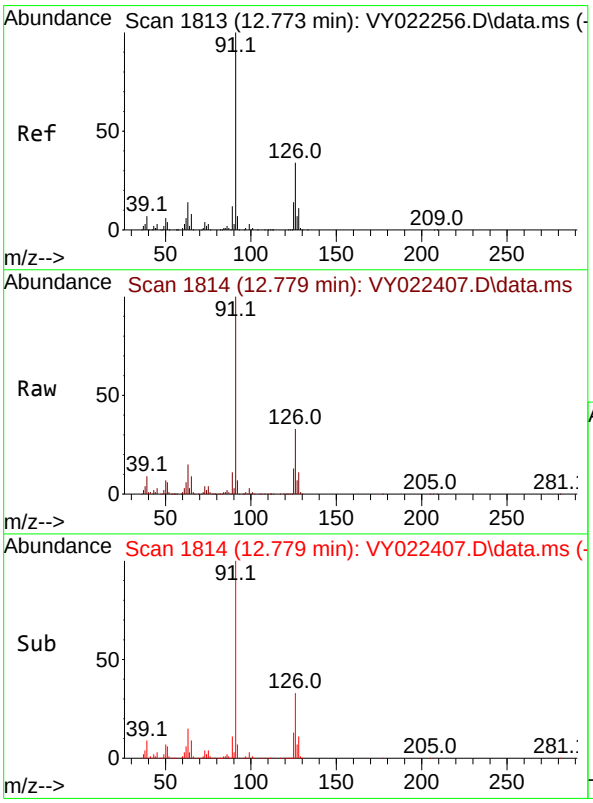
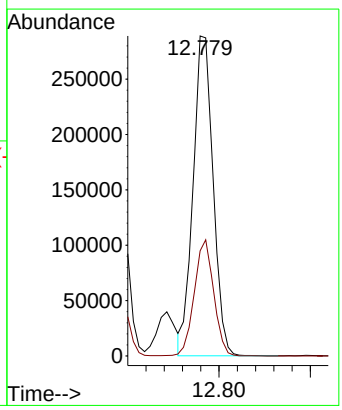


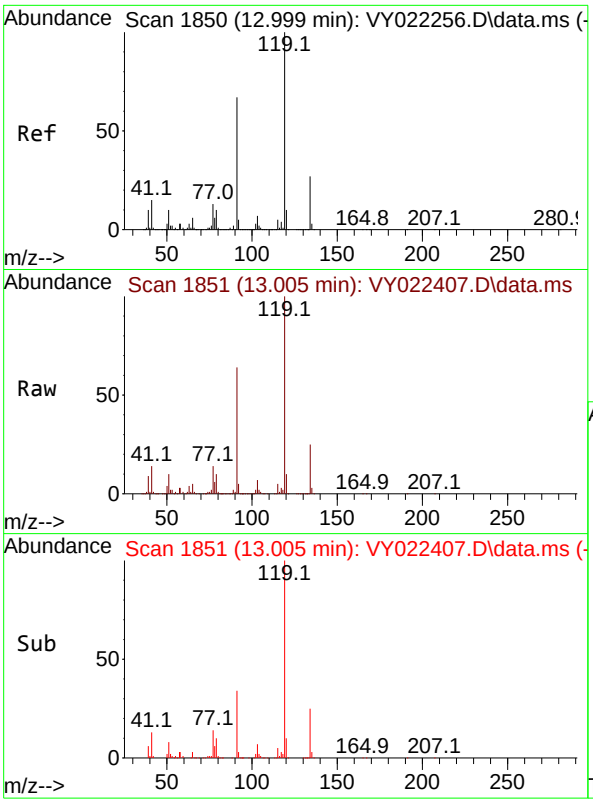


#82
4-Chlorotoluene
Concen: 49.894 ug/l
RT: 12.779 min Scan# 1814
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 91 Resp: 439995

Ion	Ratio	Lower	Upper
91	100		
126	35.2	16.8	50.4

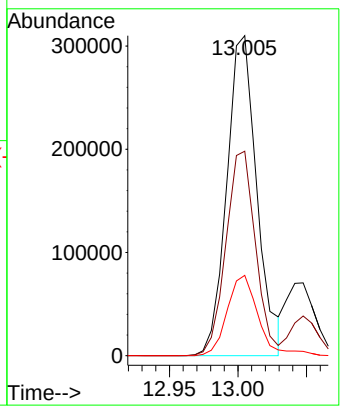




#83
tert-Butylbenzene
Concen: 51.135 ug/l
RT: 13.005 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion:119 Resp: 47454

Ion	Ratio	Lower	Upper
119	100		
91	62.9	32.8	98.3
134	26.0	12.9	38.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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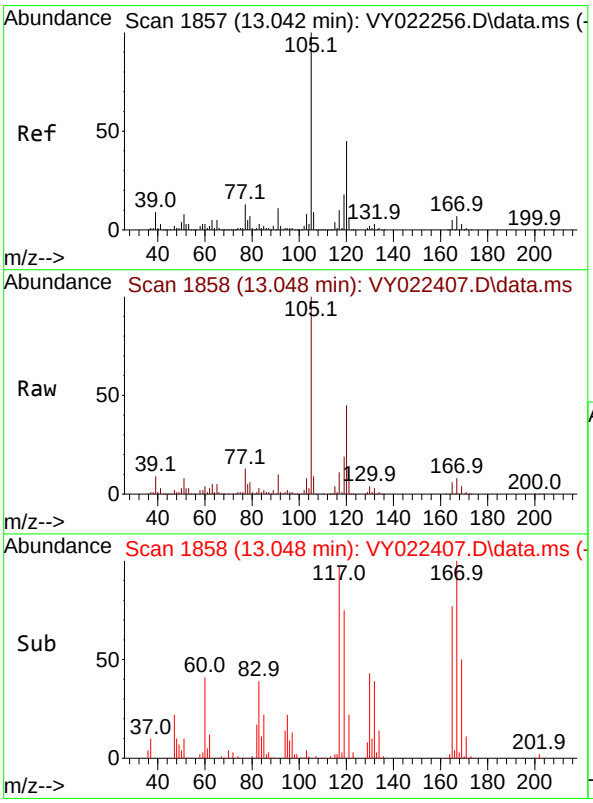
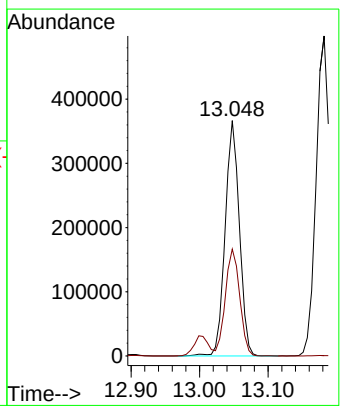
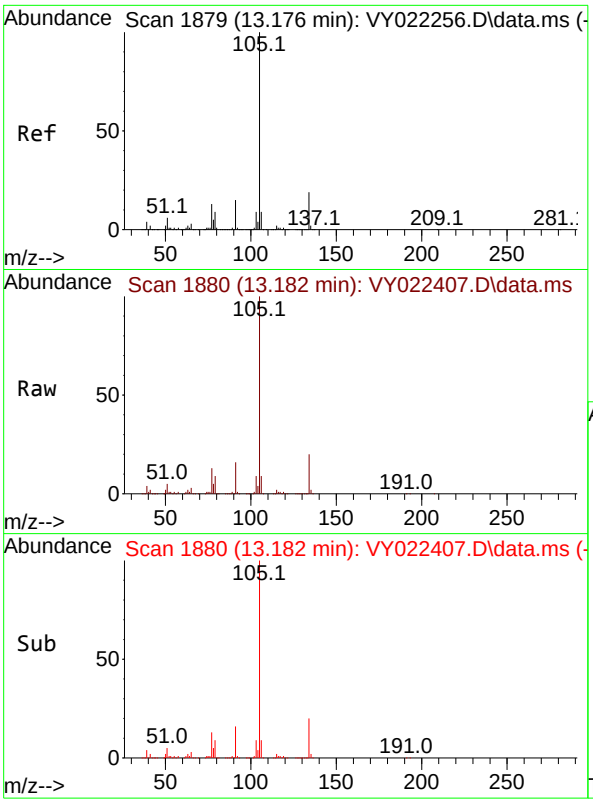


#84
1,2,4-Trimethylbenzene
Concen: 50.812 ug/l
RT: 13.048 min Scan# 1858
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion:105 Resp: 526654

Ion	Ratio	Lower	Upper
105	100		
120	45.8	22.3	66.9

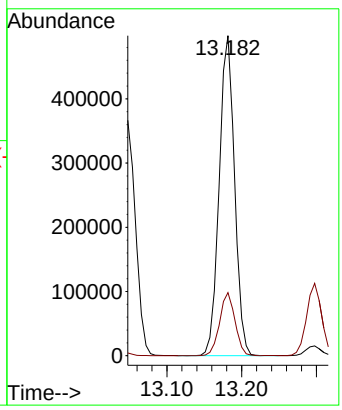




#85
sec-Butylbenzene
Concen: 51.842 ug/l
RT: 13.182 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion:105 Resp: 71416

Ion	Ratio	Lower	Upper
105	100		
134	19.6	9.8	29.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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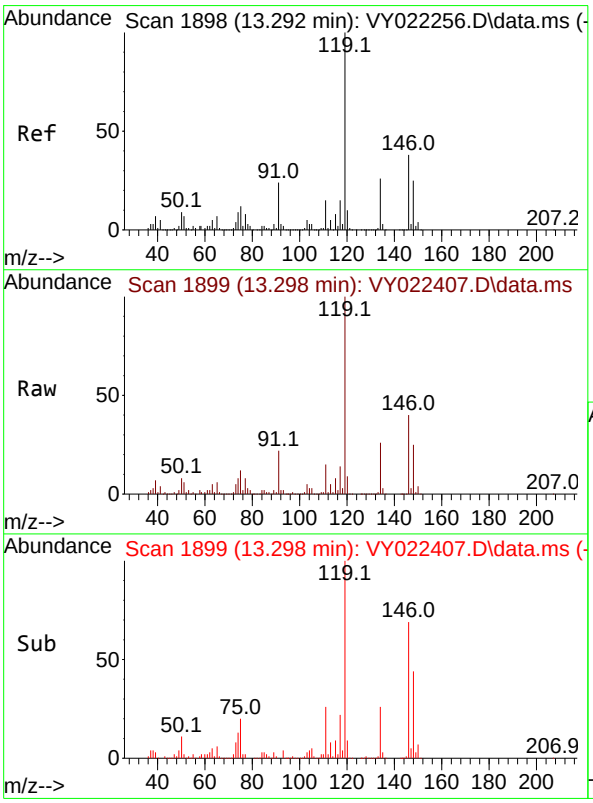
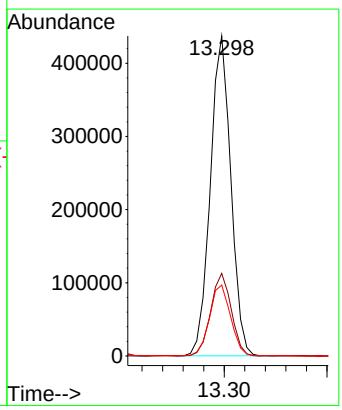
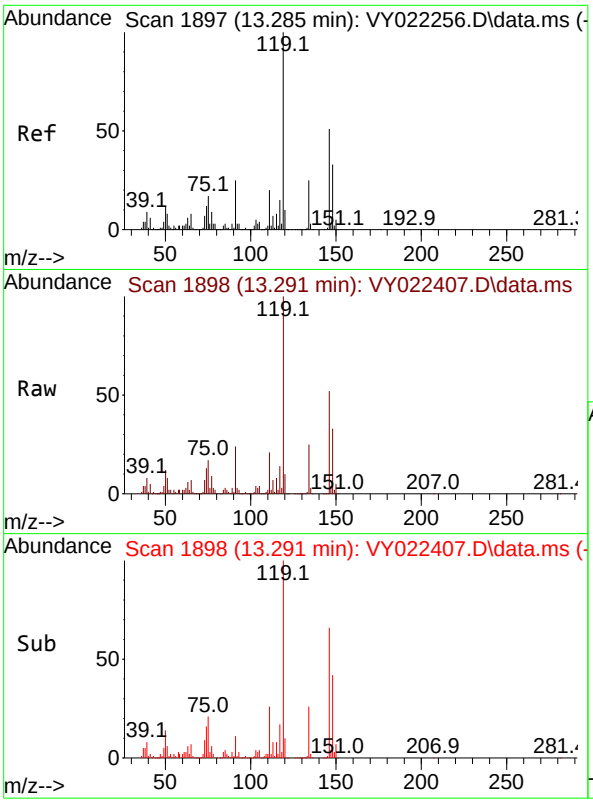


#86
p-Isopropyltoluene
Concen: 52.345 ug/l
RT: 13.298 min Scan# 1899
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion:119 Resp: 606476

Ion	Ratio	Lower	Upper
119	100		
134	26.0	12.9	38.6
91	22.6	12.1	36.3

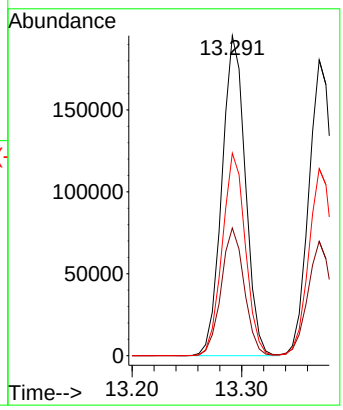




#87
1,3-Dichlorobenzene
Concen: 51.356 ug/l
RT: 13.291 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion:146 Resp: 28962

Ion	Ratio	Lower	Upper
146	100		
111	39.2	19.9	59.7
148	62.5	31.9	95.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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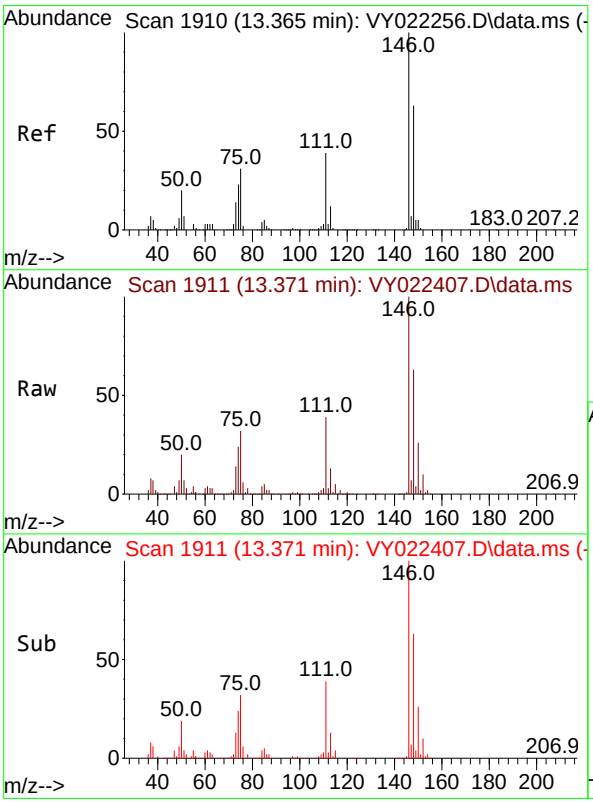
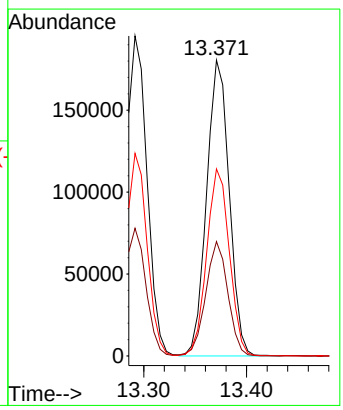
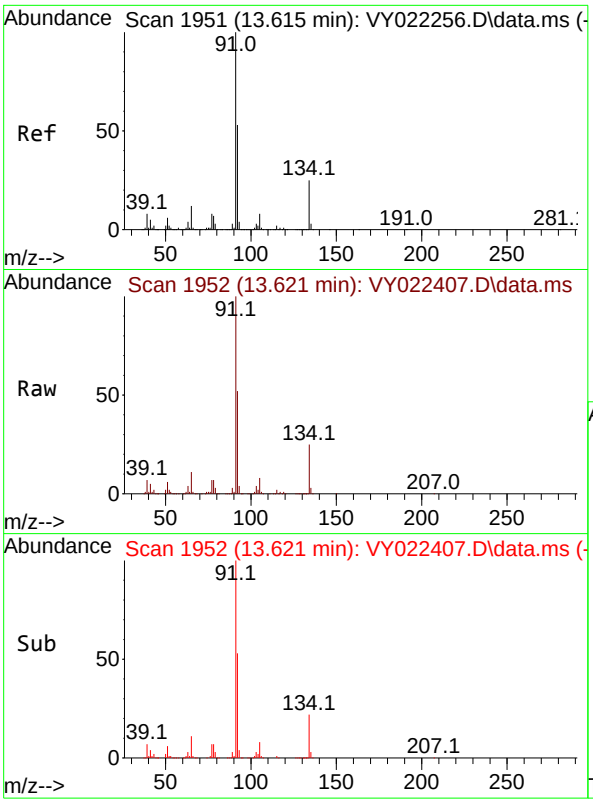


#88
1,4-Dichlorobenzene
Concen: 50.838 ug/l
RT: 13.371 min Scan# 1911
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion:146 Resp: 275777

Ion	Ratio	Lower	Upper
146	100		
111	38.0	20.0	59.9
148	63.6	32.1	96.5

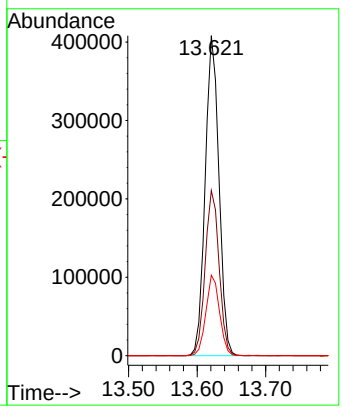




#89
n-Butylbenzene
Concen: 52.136 ug/l
RT: 13.621 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 91 Resp: 57146

Ion	Ratio	Lower	Upper
91	100		
92	52.1	26.3	78.9
134	24.8	12.4	37.4



Instrument :
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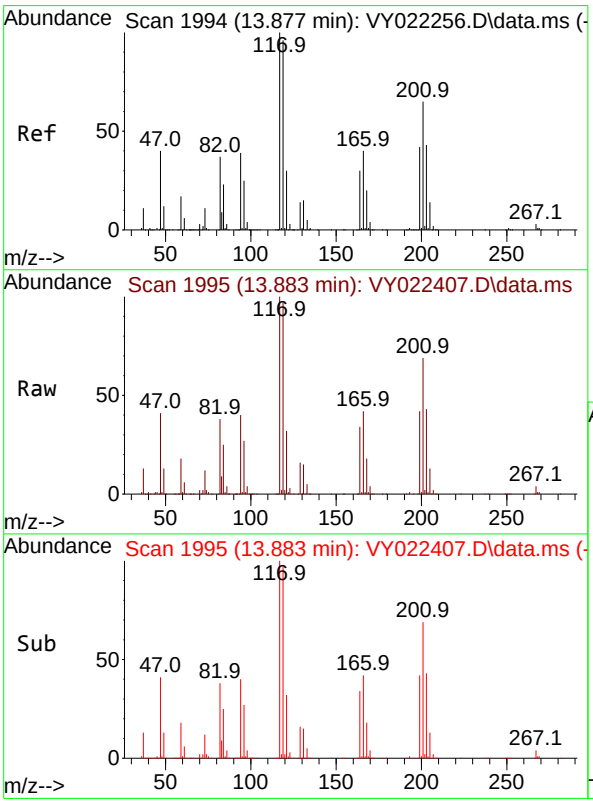
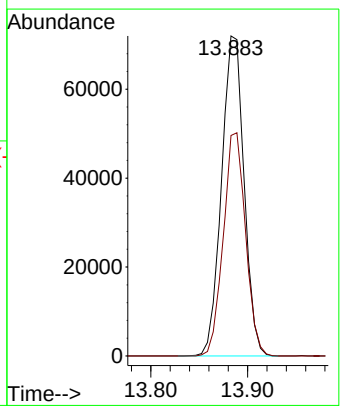
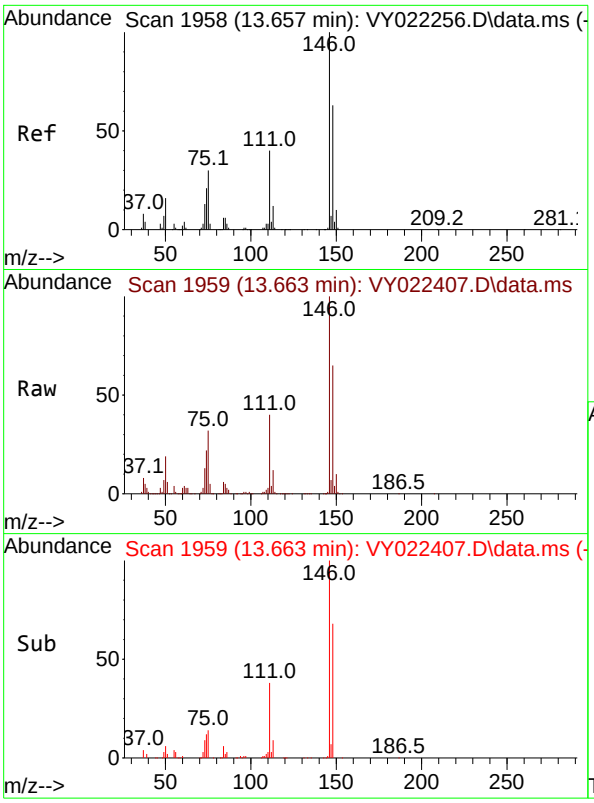


#90
Hexachloroethane
Concen: 49.754 ug/l
RT: 13.883 min Scan# 1995
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion:117 Resp: 116364

Ion	Ratio	Lower	Upper
117	100		
201	68.9	35.2	105.6

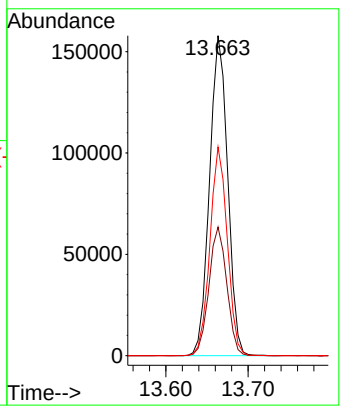




#91
1,2-Dichlorobenzene
Concen: 50.973 ug/l
RT: 13.663 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion:146 Resp: 24146

Ion	Ratio	Lower	Upper
146	100		
111	39.8	20.5	61.5
148	62.7	32.0	96.0



Instrument :
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ClientSampleId :
VSTDCCC050

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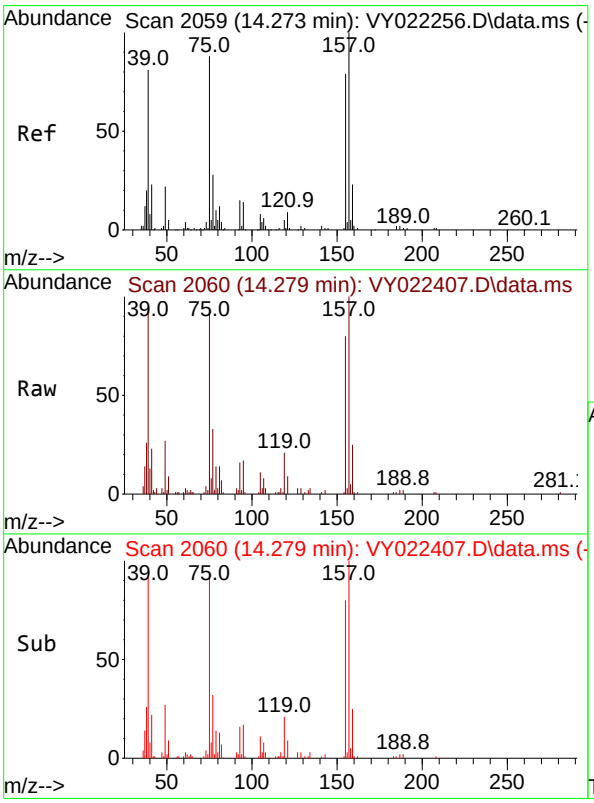
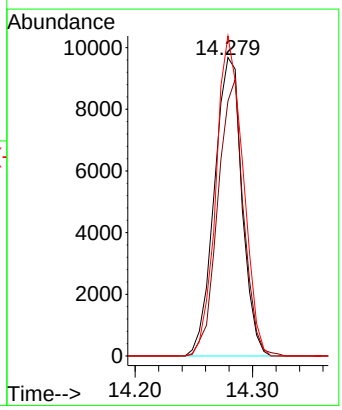
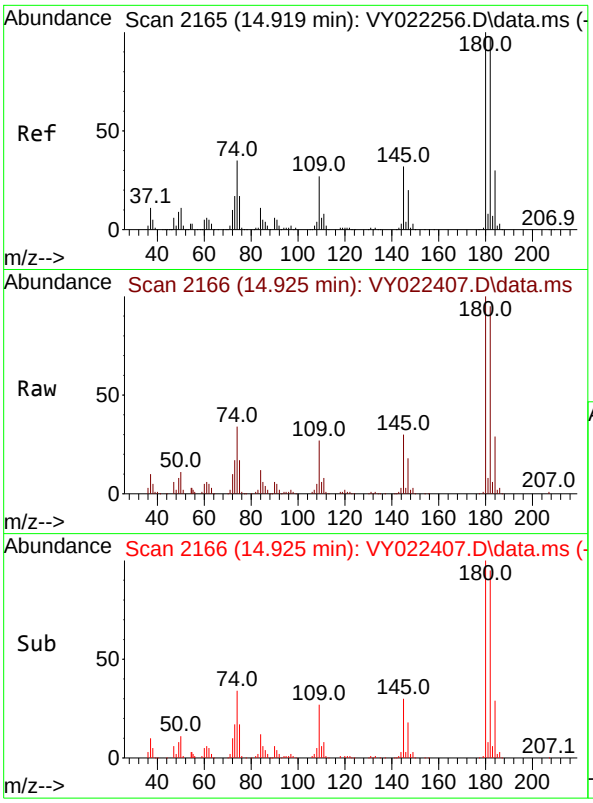


#92
1,2-Dibromo-3-Chloropropane
Concen: 49.266 ug/l
RT: 14.279 min Scan# 2060
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 75 Resp: 15803

Ion	Ratio	Lower	Upper
75	100		
155	86.0	43.4	130.1
157	104.9	54.6	163.9

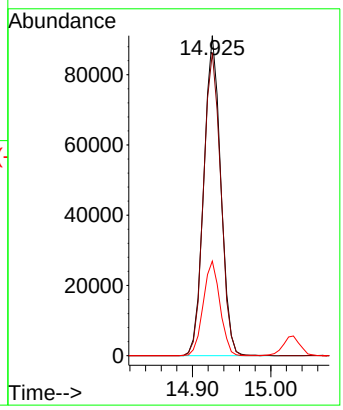




#93
1,2,4-Trichlorobenzene
Concen: 49.720 ug/l
RT: 14.925 min Scan# 21
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion:180 Resp: 13604

Ion	Ratio	Lower	Upper
180	100		
182	96.7	48.0	144.0
145	29.4	15.0	45.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

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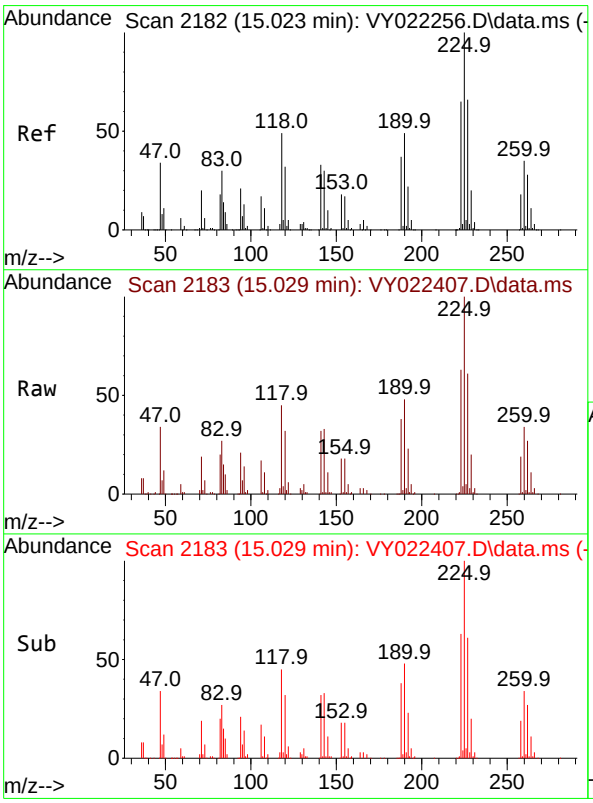
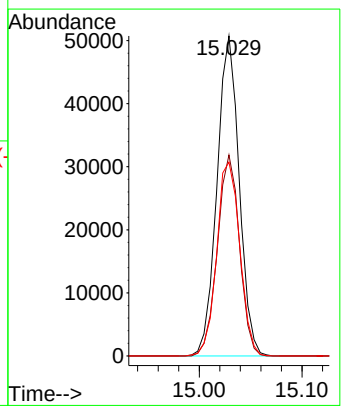
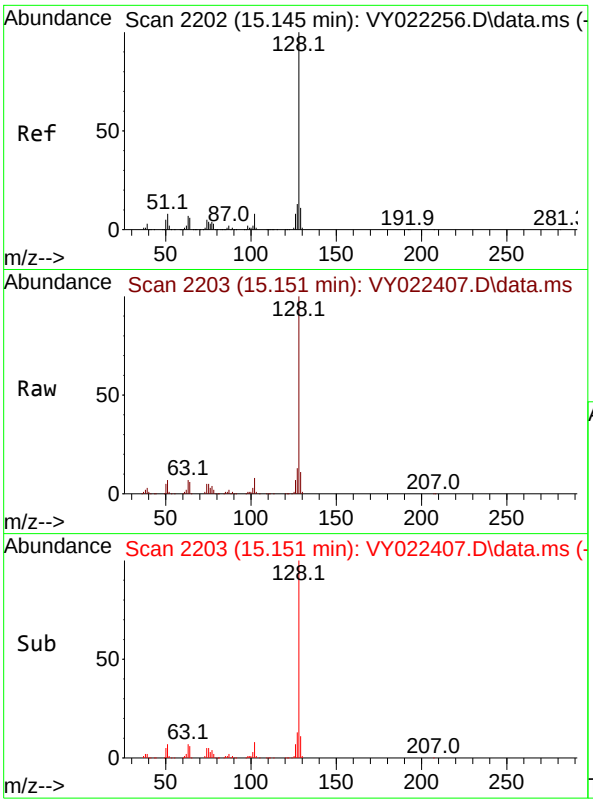


#94
Hexachlorobutadiene
Concen: 49.779 ug/l
RT: 15.029 min Scan# 2183
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion:225 Resp: 75960

Ion	Ratio	Lower	Upper
225	100		
223	62.3	31.5	94.5
227	63.0	32.1	96.3

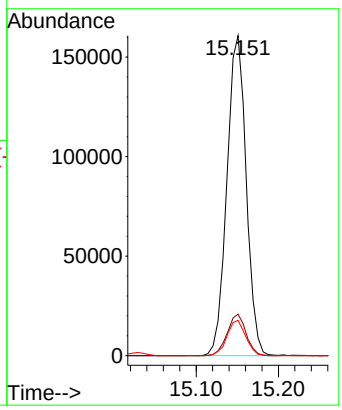




#95
Naphthalene
Concen: 50.366 ug/l
RT: 15.151 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion:128 Resp: 26152

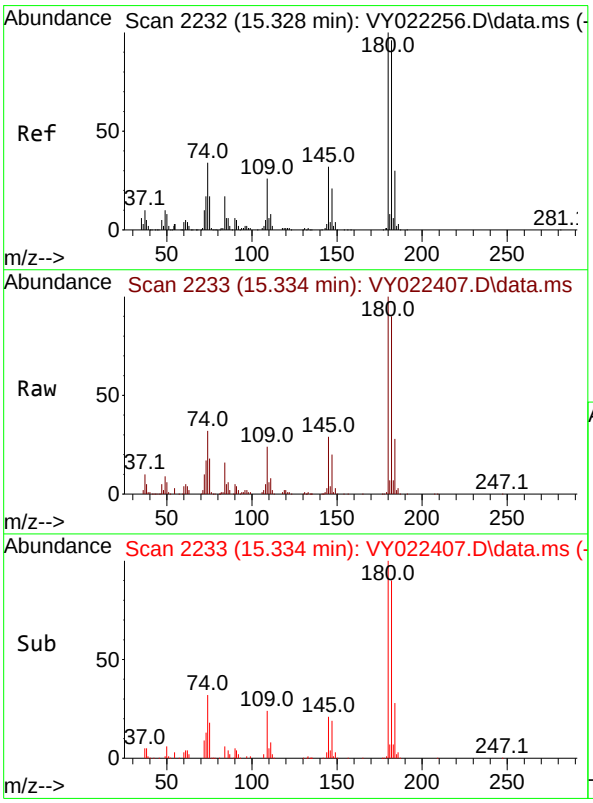
Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.2	15.2
129	10.8	8.8	13.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

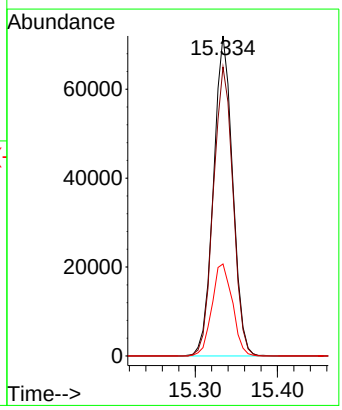
Reviewed By :Mahesh Dadoda 05/27/2025
Supervised By :Semsettin Yesilyurt 05/27/2025



#96
1,2,3-Trichlorobenzene
Concen: 50.307 ug/l
RT: 15.334 min Scan# 2233
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion:180 Resp: 116775

Ion	Ratio	Lower	Upper
180	100		
182	92.2	47.1	141.3
145	30.6	15.9	47.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022407.D
Acq On : 23 May 2025 14:34
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: May 23 23:19:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	83	0.01
2	T	Dichlorodifluoromethane	0.522	0.529	-1.3	86	0.00
3	P	Chloromethane	1.097	1.312	-19.6	104	0.01
4	C	Vinyl Chloride	1.226	1.569	-28.0#	107	0.00
5	T	Bromomethane	0.998	1.869	-87.3#	176#	0.00
6	T	Chloroethane	0.763	1.174	-53.9#	128	0.00
7	T	Trichlorofluoromethane	1.241	1.446	-16.5	98	0.00
8	T	Diethyl Ether	0.298	0.305	-2.3	86	0.01
9	T	1,1,2-Trichlorotrifluoroeth	0.539	0.598	-10.9	92	0.00
10	T	Methyl Iodide	0.624	0.701	-12.3	84	0.00
11	T	Tert butyl alcohol	0.042	0.039	7.1	83	0.02
12	CM	1,1-Dichloroethene	0.535	0.580	-8.4#	89	0.01
13	T	Acrolein	0.061	0.005	91.8#	7#	0.02
14	T	Allyl chloride	0.938	0.865	7.8	75	0.02
15	T	Acrylonitrile	0.123	0.123	0.0	85	0.01
16	T	Acetone	0.102	0.112	-9.8	100	0.02
17	T	Carbon Disulfide	1.744	1.866	-7.0	88	0.00
18	T	Methyl Acetate	0.323	0.277	14.2	76	0.01
19	T	Methyl tert-butyl Ether	1.475	1.534	-4.0	87	0.01
20	T	Methylene Chloride	0.662	0.610	7.9	85	0.00
21	T	trans-1,2-Dichloroethene	0.590	0.629	-6.6	88	0.02
22	T	Diisopropyl ether	1.980	1.867	5.7	78	0.01
23	T	Vinyl Acetate	1.196	1.156	3.3	81	0.01
24	P	1,1-Dichloroethane	1.106	1.138	-2.9	84	0.00
25	T	2-Butanone	0.171	0.165	3.5	85	0.01
26	T	2,2-Dichloropropane	0.984	1.039	-5.6	87	0.01
27	T	cis-1,2-Dichloroethene	0.681	0.745	-9.4	89	0.00
28	T	Bromochloromethane	0.472	0.452	4.2	79	0.00
29	T	Tetrahydrofuran	0.110	0.104	5.5	81	0.01
30	C	Chloroform	1.061	1.137	-7.2#	87	0.00
31	T	Cyclohexane	1.105	1.069	3.3	84	0.01
32	T	1,1,1-Trichloroethane	0.974	1.014	-4.1	86	0.01
33	S	1,2-Dichloroethane-d4	0.546	0.475	13.0	73	0.01
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	84	0.00
35	S	Dibromofluoromethane	0.298	0.280	6.0	78	0.00
36	T	1,1-Dichloropropene	0.492	0.524	-6.5	87	0.01
37	T	Ethyl Acetate	0.237	0.226	4.6	81	0.00
38	T	Carbon Tetrachloride	0.509	0.543	-6.7	88	0.01
39	T	Methylcyclohexane	0.660	0.714	-8.2	89	0.00
40	TM	Benzene	1.457	1.555	-6.7	87	0.00
41	T	Methacrylonitrile	0.157	0.152	3.2	81	0.01
42	TM	1,2-Dichloroethane	0.394	0.407	-3.3	85	0.00
43	T	Isopropyl Acetate	0.516	0.489	5.2	80	0.01
44	TM	Trichloroethene	0.362	0.386	-6.6	87	0.00
45	C	1,2-Dichloropropane	0.351	0.363	-3.4#	85	0.00
46	T	Dibromomethane	0.189	0.203	-7.4	90	0.00
47	T	Bromodichloromethane	0.492	0.522	-6.1	86	0.01
48	T	Methyl methacrylate	0.241	0.223	7.5	78	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022407.D
Acq On : 23 May 2025 14:34
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: May 23 23:19:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.002	0.002	0.0	89	0.01
50	S	Toluene-d8	1.222	1.060	13.3	72	0.01
51	T	4-Methyl-2-Pentanone	0.253	0.241	4.7	80	0.00
52	CM	Toluene	0.923	0.988	-7.0#	88	0.00
53	T	t-1,3-Dichloropropene	0.480	0.487	-1.5	84	0.01
54	T	cis-1,3-Dichloropropene	0.550	0.574	-4.4	86	0.01
55	T	1,1,2-Trichloroethane	0.243	0.261	-7.4	90	0.00
56	T	Ethyl methacrylate	0.378	0.389	-2.9	86	0.00
57	T	1,3-Dichloropropane	0.431	0.457	-6.0	88	0.00
58	T	2-Chloroethyl Vinyl ether	0.170	0.174	-2.4	79	0.01
59	T	2-Hexanone	0.170	0.166	2.4	84	0.00
60	T	Dibromochloromethane	0.315	0.339	-7.6	88	0.01
61	T	1,2-Dibromoethane	0.226	0.243	-7.5	90	0.00
62	S	4-Bromofluorobenzene	0.387	0.334	13.7	72	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	85	0.00
64	T	Tetrachloroethene	0.462	0.463	-0.2	83	0.00
65	PM	Chlorobenzene	1.128	1.192	-5.7	87	0.01
66	T	1,1,1,2-Tetrachloroethane	0.388	0.404	-4.1	87	0.00
67	C	Ethyl Benzene	2.113	2.220	-5.1#	86	0.00
68	T	m/p-Xylenes	0.796	0.846	-6.3	88	0.00
69	T	o-Xylene	0.753	0.797	-5.8	88	0.01
70	T	Styrene	1.270	1.334	-5.0	87	0.00
71	P	Bromoform	0.209	0.212	-1.4	86	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	87	0.00
73	T	Isopropylbenzene	4.142	4.256	-2.8	88	0.00
74	T	N-amyl acetate	1.185	1.085	8.4	81	0.00
75	P	1,1,2,2-Tetrachloroethane	0.637	0.668	-4.9	92	0.00
76	T	1,2,3-Trichloropropane	0.507	0.497	2.0	86	0.00
77	T	Bromobenzene	0.885	0.894	-1.0	86	0.00
78	T	n-propylbenzene	4.996	5.187	-3.8	88	0.00
79	T	2-Chlorotoluene	2.746	2.741	0.2	85	0.00
80	T	1,3,5-Trimethylbenzene	3.344	3.368	-0.7	86	0.00
81	T	trans-1,4-Dichloro-2-butene	0.250	0.236	5.6	86	0.00
82	T	4-Chlorotoluene	2.824	2.818	0.2	84	0.00
83	T	tert-Butylbenzene	2.972	3.039	-2.3	87	0.00
84	T	1,2,4-Trimethylbenzene	3.319	3.373	-1.6	86	0.00
85	T	sec-Butylbenzene	4.412	4.574	-3.7	87	0.00
86	T	p-Isopropyltoluene	3.710	3.884	-4.7	88	0.00
87	T	1,3-Dichlorobenzene	1.806	1.855	-2.7	87	0.00
88	T	1,4-Dichlorobenzene	1.737	1.766	-1.7	87	0.00
89	T	n-Butylbenzene	3.510	3.660	-4.3	86	0.00
90	T	Hexachloroethane	0.749	0.745	0.5	85	0.00
91	T	1,2-Dichlorobenzene	1.517	1.547	-2.0	87	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.103	0.101	1.9	88	0.00
93	T	1,2,4-Trichlorobenzene	0.876	0.871	0.6	84	0.00
94	T	Hexachlorobutadiene	0.489	0.487	0.4	84	0.00
95	T	Naphthalene	1.663	1.675	-0.7	88	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022407.D
Acq On : 23 May 2025 14:34
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: May 23 23:19:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.743	0.748	-0.7	86	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022407.D
Acq On : 23 May 2025 14:34
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: May 23 23:19:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	83	0.01
2	T	Dichlorodifluoromethane	50.000	50.667	-1.3	86	0.00
3	P	Chloromethane	50.000	59.771	-19.5	104	0.01
4	C	Vinyl Chloride	50.000	63.990	-28.0#	107	0.00
5	T	Bromomethane	50.000	93.610	-87.2#	176	0.00
6	T	Chloroethane	50.000	76.947	-53.9#	128	0.00
7	T	Trichlorofluoromethane	50.000	58.240	-16.5	98	0.00
8	T	Diethyl Ether	50.000	51.162	-2.3	86	0.01
9	T	1,1,2-Trichlorotrifluoroeth	50.000	55.449	-10.9	92	0.00
10	T	Methyl Iodide	50.000	56.212	-12.4	84	0.00
11	T	Tert butyl alcohol	250.000	233.304	6.7	83	0.02
12	CM	1,1-Dichloroethene	50.000	54.199	-8.4#	89	0.01
13	T	Acrolein	250.000	20.087	92.0#	7	0.02
14	T	Allyl chloride	50.000	46.134	7.7	75	0.02
15	T	Acrylonitrile	250.000	251.450	-0.6	85	0.01
16	T	Acetone	250.000	274.484	-9.8	100	0.02
17	T	Carbon Disulfide	50.000	53.502	-7.0	88	0.00
18	T	Methyl Acetate	50.000	42.944	14.1	76	0.01
19	T	Methyl tert-butyl Ether	50.000	52.026	-4.1	87	0.01
20	T	Methylene Chloride	50.000	46.098	7.8	85	0.00
21	T	trans-1,2-Dichloroethene	50.000	53.266	-6.5	88	0.02
22	T	Diisopropyl ether	50.000	47.129	5.7	78	0.01
23	T	Vinyl Acetate	250.000	241.628	3.3	81	0.01
24	P	1,1-Dichloroethane	50.000	51.413	-2.8	84	0.00
25	T	2-Butanone	250.000	240.768	3.7	85	0.01
26	T	2,2-Dichloropropane	50.000	52.796	-5.6	87	0.01
27	T	cis-1,2-Dichloroethene	50.000	54.670	-9.3	89	0.00
28	T	Bromochloromethane	50.000	47.928	4.1	79	0.00
29	T	Tetrahydrofuran	250.000	235.730	5.7	81	0.01
30	C	Chloroform	50.000	53.578	-7.2#	87	0.00
31	T	Cyclohexane	50.000	48.361	3.3	84	0.01
32	T	1,1,1-Trichloroethane	50.000	52.075	-4.2	86	0.01
33	S	1,2-Dichloroethane-d4	50.000	43.448	13.1	73	0.01
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	84	0.00
35	S	Dibromofluoromethane	50.000	46.982	6.0	78	0.00
36	T	1,1-Dichloropropene	50.000	53.349	-6.7	87	0.01
37	T	Ethyl Acetate	50.000	47.744	4.5	81	0.00
38	T	Carbon Tetrachloride	50.000	53.361	-6.7	88	0.01
39	T	Methylcyclohexane	50.000	54.032	-8.1	89	0.00
40	TM	Benzene	50.000	53.342	-6.7	87	0.00
41	T	Methacrylonitrile	50.000	48.401	3.2	81	0.01
42	TM	1,2-Dichloroethane	50.000	51.680	-3.4	85	0.00
43	T	Isopropyl Acetate	50.000	47.424	5.2	80	0.01
44	TM	Trichloroethene	50.000	53.270	-6.5	87	0.00
45	C	1,2-Dichloropropane	50.000	51.695	-3.4#	85	0.00
46	T	Dibromomethane	50.000	53.582	-7.2	90	0.00
47	T	Bromodichloromethane	50.000	53.066	-6.1	86	0.01
48	T	Methyl methacrylate	50.000	46.300	7.4	78	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022407.D
Acq On : 23 May 2025 14:34
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: May 23 23:19:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	1012.465	-1.2	89	0.01
50	S	Toluene-d8	50.000	43.369	13.3	72	0.01
51	T	4-Methyl-2-Pentanone	250.000	238.329	4.7	80	0.00
52	CM	Toluene	50.000	53.527	-7.1#	88	0.00
53	T	t-1,3-Dichloropropene	50.000	50.715	-1.4	84	0.01
54	T	cis-1,3-Dichloropropene	50.000	52.261	-4.5	86	0.01
55	T	1,1,2-Trichloroethane	50.000	53.693	-7.4	90	0.00
56	T	Ethyl methacrylate	50.000	51.400	-2.8	86	0.00
57	T	1,3-Dichloropropane	50.000	53.037	-6.1	88	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	255.904	-2.4	79	0.01
59	T	2-Hexanone	250.000	244.413	2.2	84	0.00
60	T	Dibromochloromethane	50.000	53.868	-7.7	88	0.01
61	T	1,2-Dibromoethane	50.000	53.833	-7.7	90	0.00
62	S	4-Bromofluorobenzene	50.000	43.119	13.8	72	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	85	0.00
64	T	Tetrachloroethene	50.000	50.091	-0.2	83	0.00
65	PM	Chlorobenzene	50.000	52.815	-5.6	87	0.01
66	T	1,1,1,2-Tetrachloroethane	50.000	52.064	-4.1	87	0.00
67	C	Ethyl Benzene	50.000	52.532	-5.1#	86	0.00
68	T	m/p-Xylenes	100.000	106.314	-6.3	88	0.00
69	T	o-Xylene	50.000	52.908	-5.8	88	0.01
70	T	Styrene	50.000	52.512	-5.0	87	0.00
71	P	Bromoform	50.000	50.619	-1.2	86	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	87	0.00
73	T	Isopropylbenzene	50.000	51.371	-2.7	88	0.00
74	T	N-amyl acetate	50.000	45.779	8.4	81	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	52.437	-4.9	92	0.00
76	T	1,2,3-Trichloropropane	50.000	49.038	1.9	86	0.00
77	T	Bromobenzene	50.000	50.501	-1.0	86	0.00
78	T	n-propylbenzene	50.000	51.904	-3.8	88	0.00
79	T	2-Chlorotoluene	50.000	49.921	0.2	85	0.00
80	T	1,3,5-Trimethylbenzene	50.000	50.370	-0.7	86	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	47.111	5.8	86	0.00
82	T	4-Chlorotoluene	50.000	49.894	0.2	84	0.00
83	T	tert-Butylbenzene	50.000	51.135	-2.3	87	0.00
84	T	1,2,4-Trimethylbenzene	50.000	50.812	-1.6	86	0.00
85	T	sec-Butylbenzene	50.000	51.842	-3.7	87	0.00
86	T	p-Isopropyltoluene	50.000	52.345	-4.7	88	0.00
87	T	1,3-Dichlorobenzene	50.000	51.356	-2.7	87	0.00
88	T	1,4-Dichlorobenzene	50.000	50.838	-1.7	87	0.00
89	T	n-Butylbenzene	50.000	52.136	-4.3	86	0.00
90	T	Hexachloroethane	50.000	49.754	0.5	85	0.00
91	T	1,2-Dichlorobenzene	50.000	50.973	-1.9	87	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	49.266	1.5	88	0.00
93	T	1,2,4-Trichlorobenzene	50.000	49.720	0.6	84	0.00
94	T	Hexachlorobutadiene	50.000	49.779	0.4	84	0.00
95	T	Naphthalene	50.000	50.366	-0.7	88	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022407.D
Acq On : 23 May 2025 14:34
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: May 23 23:19:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	50.307	-0.6	86	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2118 SAS No.: Q2118 SDG No.: Q2118

Instrument ID: MSVOA_Y Calibration Date/Time: 05/23/2025 21:05

Lab File ID: VY022419.D Init. Calib. Date(s): 05/15/2025 05/15/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 09:46 11:47

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Chloromethane	1.097	1.286	0.1	17.23	50
Vinyl Chloride	1.226	1.562		27.41	50
Bromomethane	0.998	1.467		46.99	50
Chloroethane	0.763	0.994		30.27	50
Trichlorofluoromethane	1.241	1.273		2.58	50
1,1,2-Trichlorotrifluoroethane	0.539	0.593		10.02	50
1,1-Dichloroethene	0.535	0.583		8.97	50
Acetone	0.102	0.097		-4.9	50
Carbon Disulfide	1.744	1.796		2.98	50
Methyl tert-butyl Ether	1.475	1.640		11.19	50
Methylene Chloride	0.662	0.667		0.75	50
trans-1,2-Dichloroethene	0.590	0.651		10.34	50
1,1-Dichloroethane	1.106	1.209	0.1	9.31	50
2-Butanone	0.171	0.169		-1.17	50
Carbon Tetrachloride	0.509	0.536		5.3	50
cis-1,2-Dichloroethene	0.681	0.775		13.8	50
Chloroform	1.061	1.200		13.1	50
1,1,1-Trichloroethane	0.974	1.067		9.55	50
Methylcyclohexane	0.660	0.680		3.03	50
Benzene	1.457	1.575		8.1	50
1,2-Dichloroethane	0.394	0.422		7.11	50
Trichloroethene	0.362	0.384		6.08	50
1,2-Dichloropropane	0.351	0.373		6.27	50
Bromodichloromethane	0.492	0.537		9.15	50
4-Methyl-2-Pentanone	0.253	0.255		0.79	50
Toluene	0.923	0.978		5.96	50
t-1,3-Dichloropropene	0.480	0.486		1.25	50
cis-1,3-Dichloropropene	0.550	0.568		3.27	50
1,1,2-Trichloroethane	0.243	0.266		9.47	50
2-Hexanone	0.170	0.168		-1.18	50
Dibromochloromethane	0.315	0.347		10.16	50
Tetrachloroethene	0.462	0.460		-0.43	50
Chlorobenzene	1.128	1.209	0.3	7.18	50
Ethyl Benzene	2.113	2.203		4.26	50
m/p-Xylenes	0.796	0.827		3.89	50
o-Xylene	0.753	0.789		4.78	50
Styrene	1.270	1.344		5.83	50
Bromoform	0.209	0.220	0.1	5.26	50

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2118 SAS No.: Q2118 SDG No.: Q2118

Instrument ID: MSVOA_Y Calibration Date/Time: 05/23/2025 21:05

Lab File ID: VY022419.D Init. Calib. Date(s): 05/15/2025 05/15/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 09:46 11:47

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Isopropylbenzene	4.142	4.339		4.76	50
1,1,2,2-Tetrachloroethane	0.637	0.705	0.3	10.68	50
1,3-Dichlorobenzene	1.806	1.889		4.6	50
1,4-Dichlorobenzene	1.737	1.817		4.61	50
1,2-Dichlorobenzene	1.517	1.609		6.07	50
1,2-Dichloroethane-d4	0.546	0.600		9.89	50
Dibromofluoromethane	0.298	0.336		12.75	50
Toluene-d8	1.222	1.318		7.86	50
4-Bromofluorobenzene	0.387	0.390		0.77	50

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022419.D
Acq On : 23 May 2025 21:05
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 24 01:10:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 05/27/2025
Supervised By :Semsettin Yesilyurt 05/27/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	7.719	168	190406	50.000	ug/l		0.01
34) 1,4-Difluorobenzene	8.622	114	328619	50.000	ug/l		0.00
63) Chlorobenzene-d5	11.420	117	286352	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	13.353	152	137202	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	8.067	65	114261	54.908	ug/l		0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 109.820%				
35) Dibromofluoromethane	7.646	113	110381	56.277	ug/l		0.01
Spiked Amount 50.000	Range 54 - 147		Recovery = 112.560%				
50) Toluene-d8	10.115	98	433174	53.924	ug/l		0.01
Spiked Amount 50.000	Range 58 - 134		Recovery = 107.840%				
62) 4-Bromofluorobenzene	12.414	95	128293	50.386	ug/l		0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 100.780%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.867	85	97241	48.943	ug/l		98
3) Chloromethane	2.068	50	244767	58.565	ug/l		98
4) Vinyl Chloride	2.208	62	297443	63.701	ug/l		98
5) Bromomethane	2.598	94	279236	73.461	ug/l		98
6) Chloroethane	2.739	64	189182	65.125	ug/l		98
7) Trichlorofluoromethane	3.062	101	242448	51.284	ug/l		99
8) Diethyl Ether	3.464	74	63939	56.356	ug/l		89
9) 1,1,2-Trichlorotrifluo...	3.824	101	112981	55.049	ug/l		99
10) Methyl Iodide	4.013	142	141238	59.458	ug/l		99
11) Tert butyl alcohol	4.891	59	39950	251.401	ug/l	#	100
12) 1,1-Dichloroethene	3.799	96	111084	54.541	ug/l		97
13) Acrolein	3.665	56	23395	100.705	ug/l		99
14) Allyl chloride	4.397	41	165922	46.461	ug/l		91
15) Acrylonitrile	5.074	53	128620	275.131	ug/l		98
16) Acetone	3.885	43	91985	235.742	ug/l		95
17) Carbon Disulfide	4.116	76	341960	51.488	ug/l		99
18) Methyl Acetate	4.397	43	67406	54.790	ug/l		93
19) Methyl tert-butyl Ether	5.128	73	312193	55.592	ug/l		96
20) Methylene Chloride	4.629	84	126923	50.340	ug/l		96
21) trans-1,2-Dichloroethene	5.128	96	124007	55.161	ug/l		94
22) Diisopropyl ether	6.031	45	383549	50.858	ug/l		98
23) Vinyl Acetate	5.970	43	1119820	245.783	ug/l		97
24) 1,1-Dichloroethane	5.927	63	230248	54.648	ug/l		98
25) 2-Butanone	6.903	43	160434	245.808	ug/l		98
26) 2,2-Dichloropropane	6.896	77	187644	50.072	ug/l		99
27) cis-1,2-Dichloroethene	6.903	96	147625	56.905	ug/l		95
28) Bromochloromethane	7.256	49	96996	53.972	ug/l		95
29) Tetrahydrofuran	7.274	42	107064	254.973	ug/l		91
30) Chloroform	7.433	83	228513	56.544	ug/l		96
31) Cyclohexane	7.707	56	200686	47.672	ug/l		95
32) 1,1,1-Trichloroethane	7.628	97	203180	54.799	ug/l		98
36) 1,1-Dichloropropene	7.841	75	168154	52.050	ug/l		98
37) Ethyl Acetate	6.994	43	76865	49.449	ug/l		97
38) Carbon Tetrachloride	7.829	117	176086	52.656	ug/l		96
39) Methylcyclohexane	9.116	83	223441	51.480	ug/l		97
40) Benzene	8.085	78	517497	54.034	ug/l		100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022419.D
Acq On : 23 May 2025 21:05
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 24 01:10:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 05/27/2025
Supervised By :Semsettin Yesilyurt 05/27/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.226	41	45714m	44.335	ug/l		
42) 1,2-Dichloroethane	8.165	62	138825	53.602	ug/l		99
43) Isopropyl Acetate	8.207	43	165490	48.817	ug/l		96
44) Trichloroethene	8.872	130	126129	52.965	ug/l		91
45) 1,2-Dichloropropane	9.152	63	122566	53.082	ug/l		98
46) Dibromomethane	9.237	93	68525	55.024	ug/l		99
47) Bromodichloromethane	9.433	83	176471	54.621	ug/l		100
48) Methyl methacrylate	9.225	41	75659	47.724	ug/l		91
49) 1,4-Dioxane	9.237	88	15134	1075.695	ug/l		93
51) 4-Methyl-2-Pentanone	10.006	43	418622	251.669	ug/l		97
52) Toluene	10.176	92	321553	53.021	ug/l		99
53) t-1,3-Dichloropropene	10.396	75	159576	50.611	ug/l		97
54) cis-1,3-Dichloropropene	9.859	75	186733	51.692	ug/l		96
55) 1,1,2-Trichloroethane	10.579	97	87255	54.714	ug/l		99
56) Ethyl methacrylate	10.445	69	131927	53.108	ug/l		94
57) 1,3-Dichloropropane	10.725	76	154902	54.669	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.719	63	318247	285.424	ug/l		97
59) 2-Hexanone	10.768	43	276044	247.514	ug/l		96
60) Dibromochloromethane	10.920	129	114120	55.133	ug/l		98
61) 1,2-Dibromoethane	11.024	107	83207	55.980	ug/l		100
64) Tetrachloroethene	10.652	164	131639	49.735	ug/l		98
65) Chlorobenzene	11.451	112	346274	53.600	ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.524	131	118210	53.225	ug/l		99
67) Ethyl Benzene	11.524	91	630753	52.133	ug/l		98
68) m/p-Xylenes	11.633	106	473349	103.825	ug/l		99
69) o-Xylene	11.963	106	225904	52.372	ug/l		97
70) Styrene	11.975	104	384747	52.878	ug/l		98
71) Bromoform	12.139	173	62980	52.537	ug/l	#	97
73) Isopropylbenzene	12.261	105	595326	52.375	ug/l		99
74) N-amyl acetate	12.078	43	150966	46.439	ug/l		96
75) 1,1,2,2-Tetrachloroethane	12.511	83	96773	55.360	ug/l		99
76) 1,2,3-Trichloropropane	12.560	75	68908m	49.574	ug/l		
77) Bromobenzene	12.536	156	126529	52.120	ug/l		98
78) n-propylbenzene	12.603	91	713535	52.044	ug/l		100
79) 2-Chlorotoluene	12.682	91	382566	50.777	ug/l		98
80) 1,3,5-Trimethylbenzene	12.743	105	466319	50.822	ug/l		98
81) trans-1,4-Dichloro-2-b...	12.310	75	30774	44.849	ug/l		99
82) 4-Chlorotoluene	12.780	91	389835	50.304	ug/l		98
83) tert-Butylbenzene	13.005	119	430259	52.759	ug/l		97
84) 1,2,4-Trimethylbenzene	13.048	105	463785	50.919	ug/l		98
85) sec-Butylbenzene	13.182	105	632397	52.239	ug/l		100
86) p-Isopropyltoluene	13.298	119	528265	51.884	ug/l		99
87) 1,3-Dichlorobenzene	13.292	146	259203	52.302	ug/l		99
88) 1,4-Dichlorobenzene	13.371	146	249302	52.297	ug/l		99
89) n-Butylbenzene	13.621	91	490497	50.922	ug/l		100
90) Hexachloroethane	13.883	117	105863	51.508	ug/l		97
91) 1,2-Dichlorobenzene	13.664	146	220789	53.038	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.279	75	14395	51.067	ug/l		98
93) 1,2,4-Trichlorobenzene	14.925	180	124032	51.582	ug/l		96
94) Hexachlorobutadiene	15.029	225	64868	48.374	ug/l		98
95) Naphthalene	15.151	128	237995	52.156	ug/l		100
96) 1,2,3-Trichlorobenzene	15.334	180	104147	51.056	ug/l		98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022419.D
Acq On : 23 May 2025 21:05
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 24 01:10:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 05/27/2025
Supervised By :Semsettin Yesilyurt 05/27/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

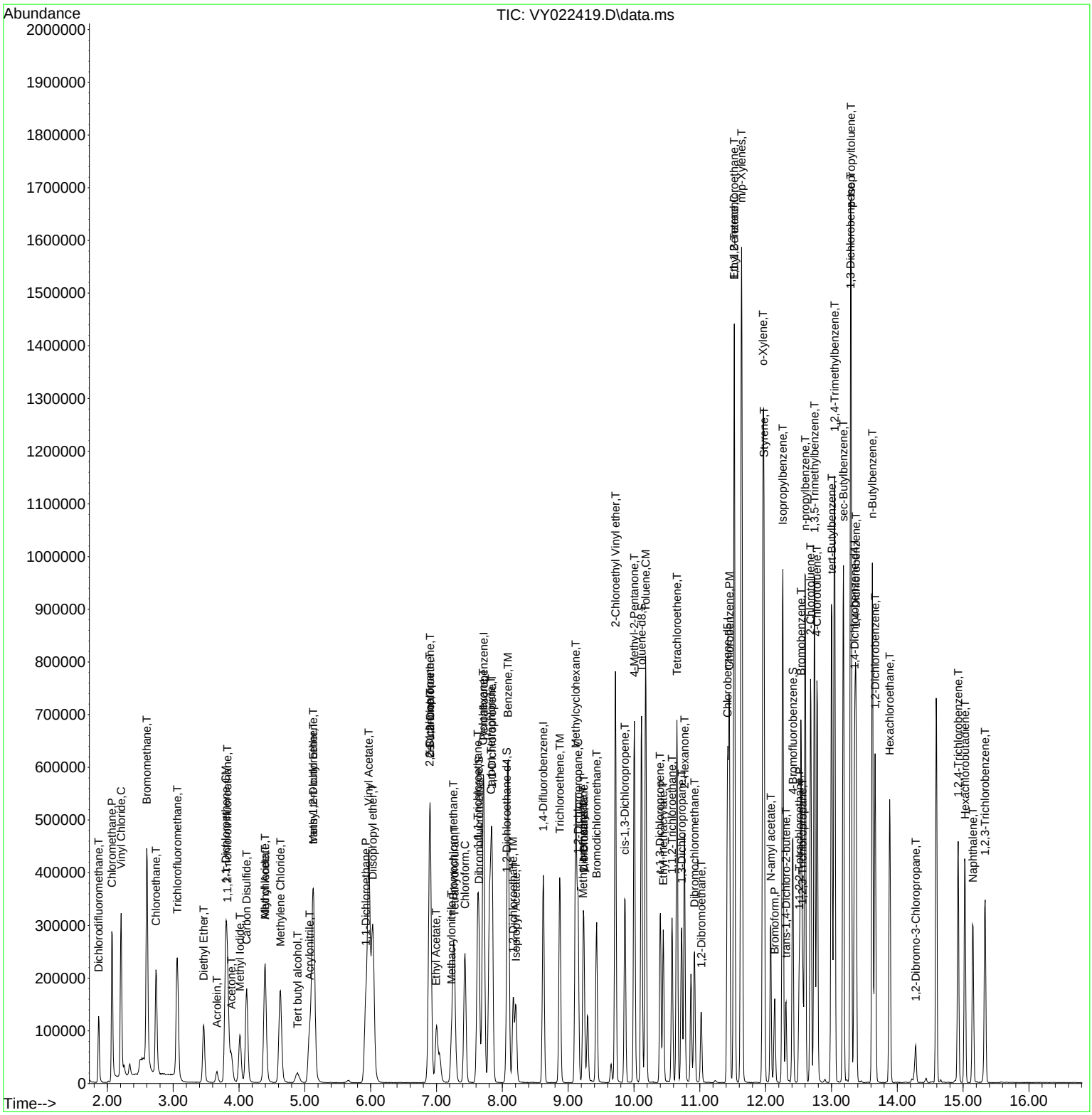
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022419.D
Acq On : 23 May 2025 21:05
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 17 Sample Multiplier: 1

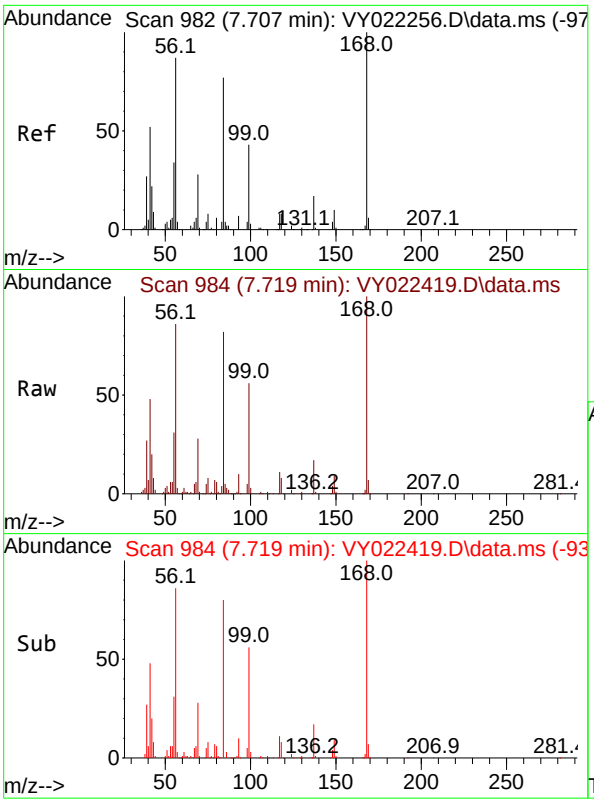
Quant Time: May 24 01:10:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 05/27/2025
Supervised By :Semsettin Yesilyurt 05/27/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.719 min Scan# 9
Delta R.T. 0.012 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

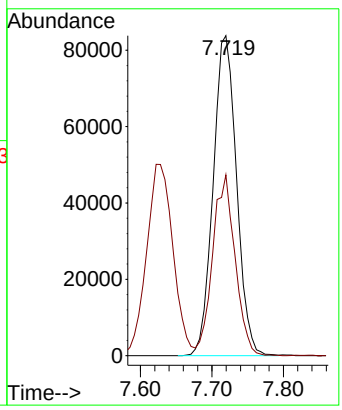
Tgt Ion:168 Resp: 19040

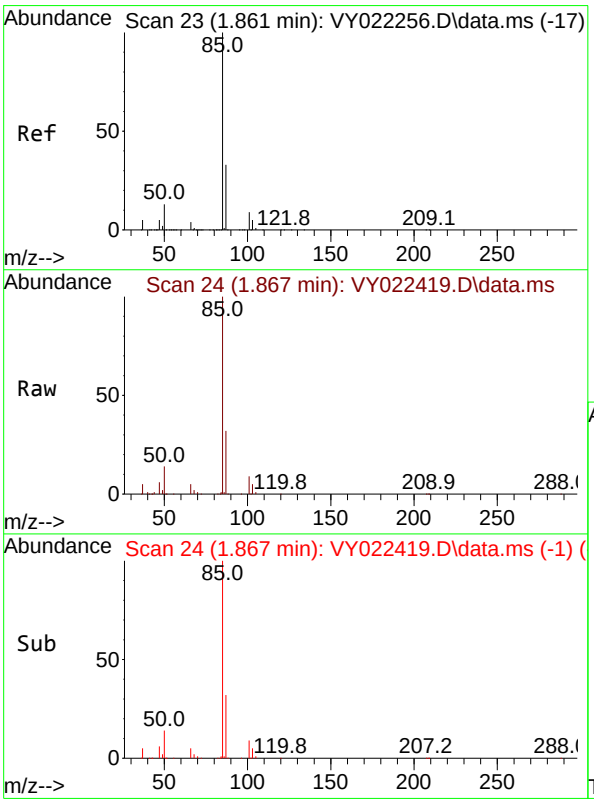
Ion	Ratio	Lower	Upper
168	100		
99	56.4	44.2	66.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 05/27/2025
Supervised By :Semsettin Yesilyurt 05/27/2025

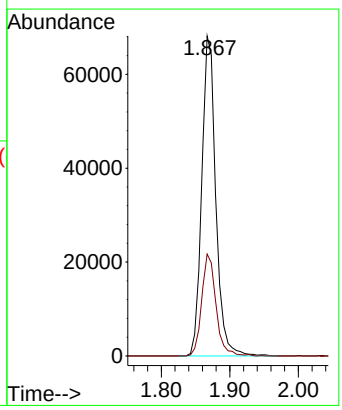


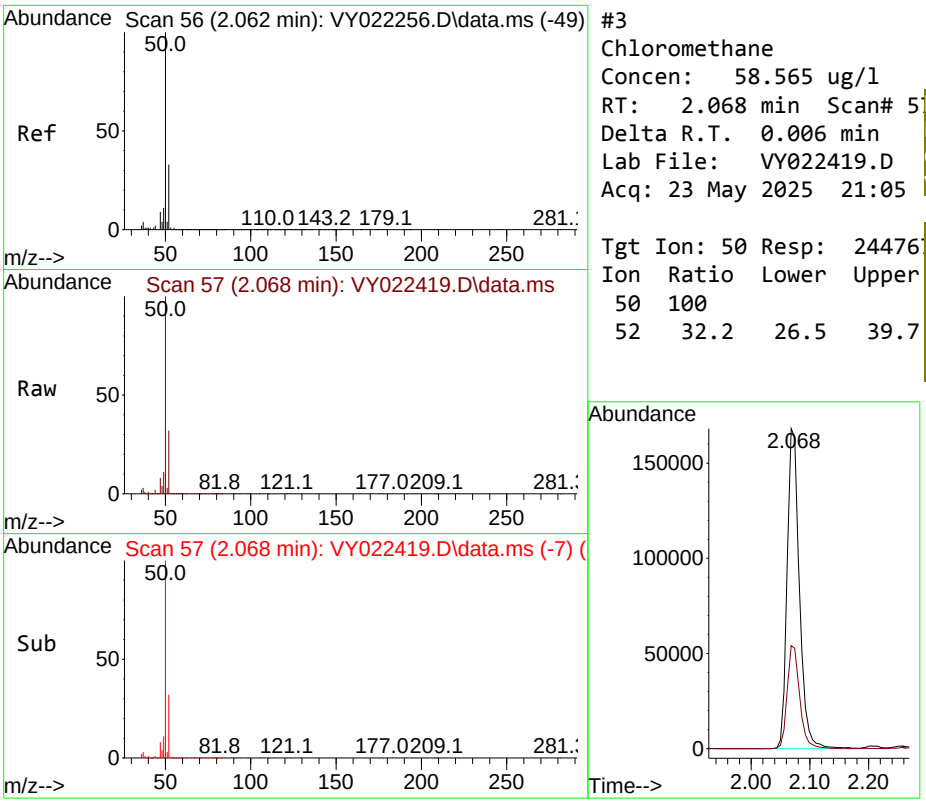


#2
Dichlorodifluoromethane
Concen: 48.943 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion: 85 Resp: 97241

Ion	Ratio	Lower	Upper
85	100		
87	31.8	16.5	49.5





#3
Chloromethane
Concen: 58.565 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

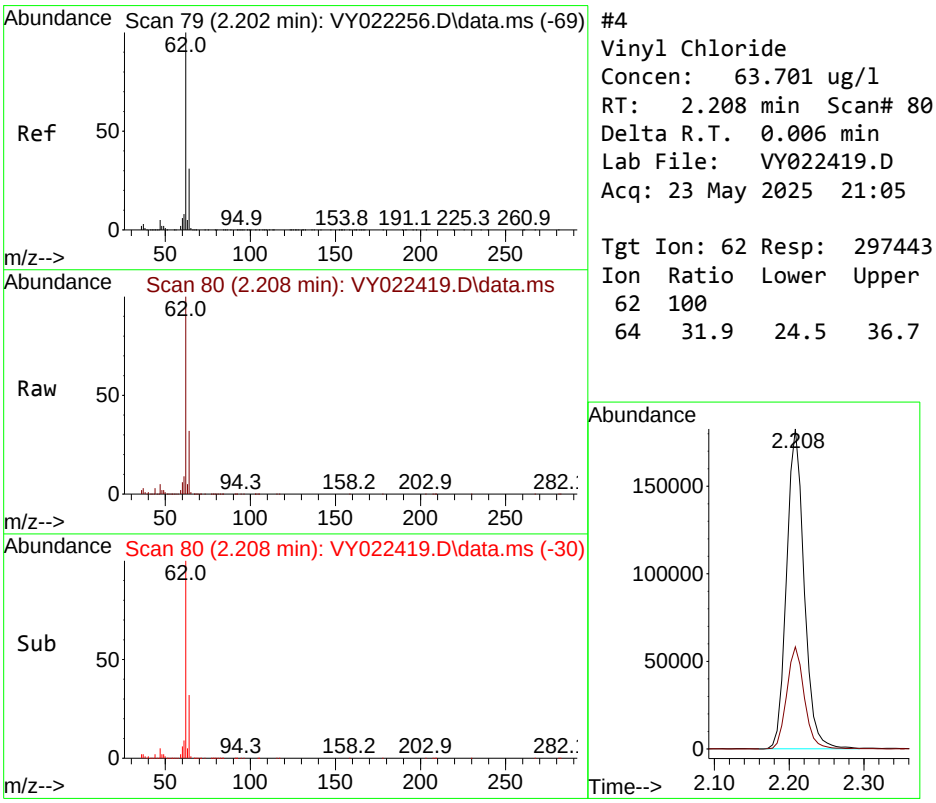
Tgt Ion: 50 Resp: 24476

Ion	Ratio	Lower	Upper
50	100		
52	32.2	26.5	39.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

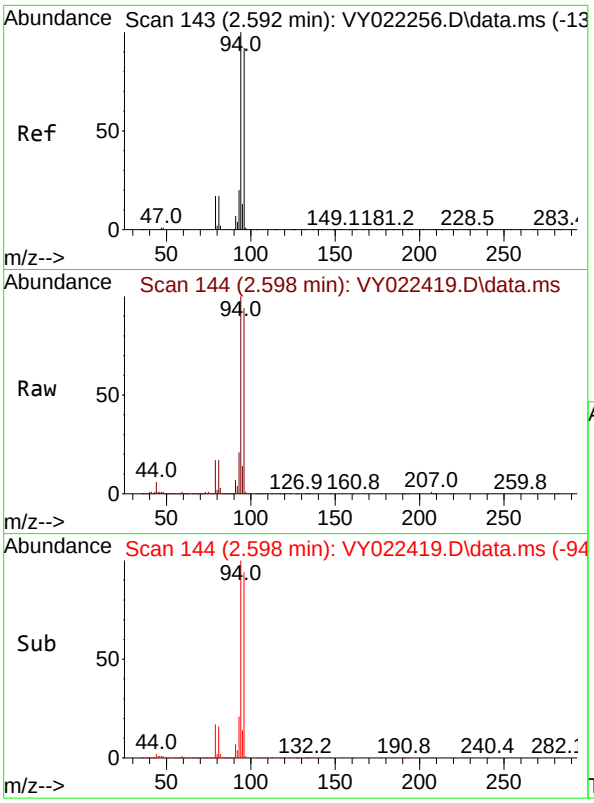
Reviewed By :Mahesh Dadoda 05/27/2025
Supervised By :Semsettin Yesilyurt 05/27/2025



#4
Vinyl Chloride
Concen: 63.701 ug/l
RT: 2.208 min Scan# 80
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion: 62 Resp: 297443

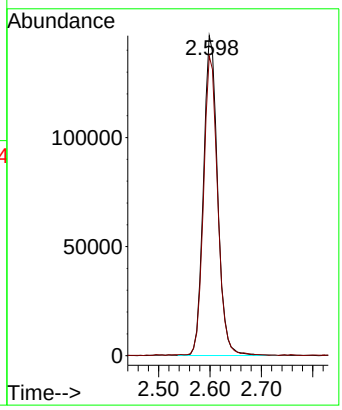
Ion	Ratio	Lower	Upper
62	100		
64	31.9	24.5	36.7



#5
Bromomethane
Concen: 73.461 ug/l
RT: 2.598 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion: 94 Resp: 27923

Ion	Ratio	Lower	Upper
94	100		
96	93.6	73.4	110.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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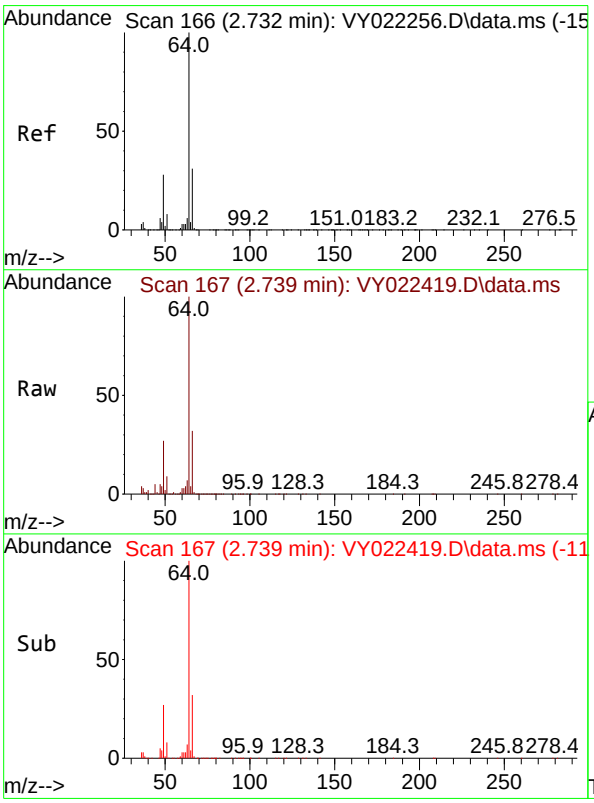
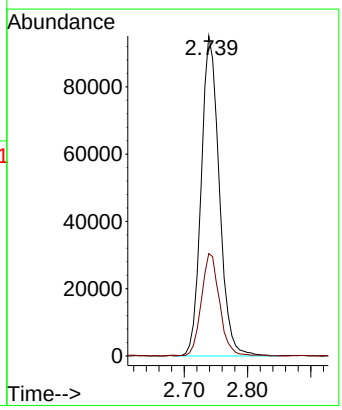
Reviewed By :Mahesh Dadoda 05/27/2025
Supervised By :Semsettin Yesilyurt 05/27/2025

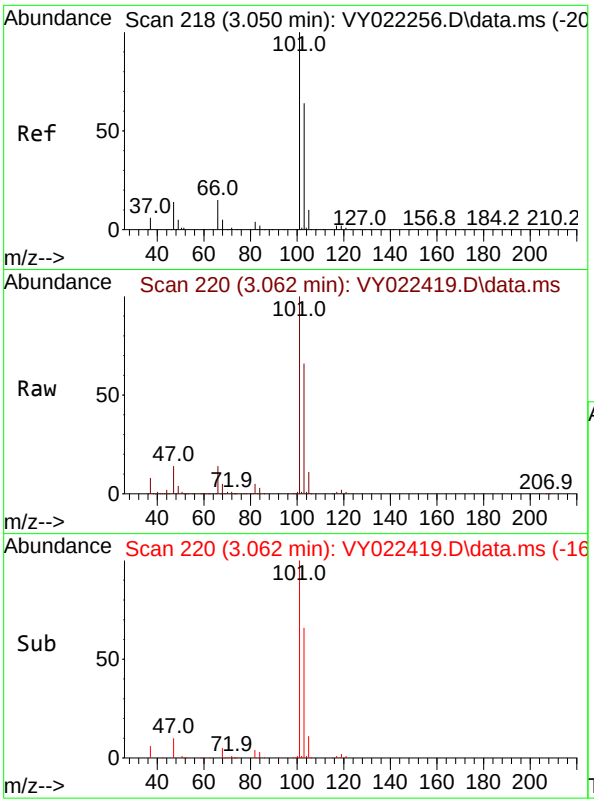


#6
Chloroethane
Concen: 65.125 ug/l
RT: 2.739 min Scan# 167
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion: 64 Resp: 189182

Ion	Ratio	Lower	Upper
64	100		
66	32.0	24.8	37.2





#7
Trichlorofluoromethane
Concen: 51.284 ug/l
RT: 3.062 min Scan# 2
Delta R.T. 0.012 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion:101 Resp: 24244

Ion	Ratio	Lower	Upper
101	100		
103	65.7	51.7	77.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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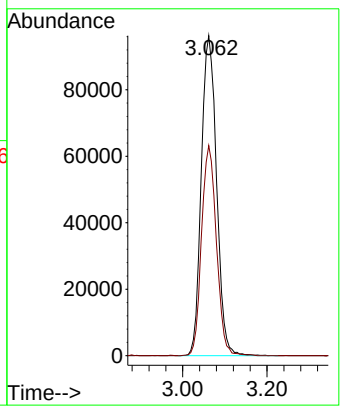
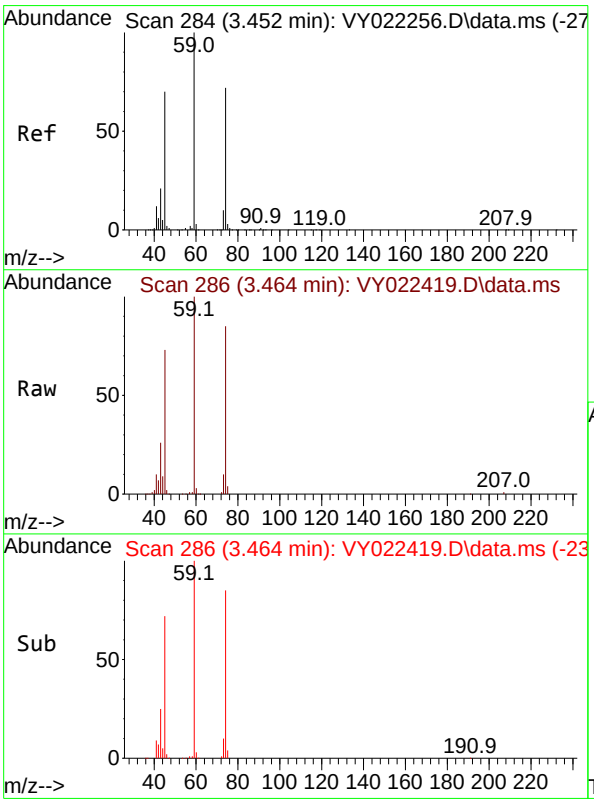
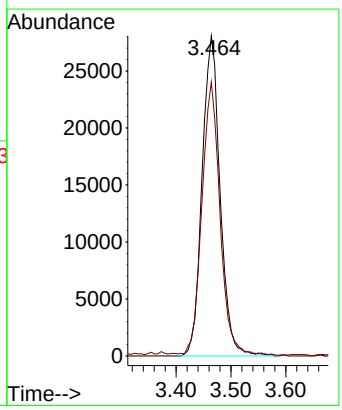


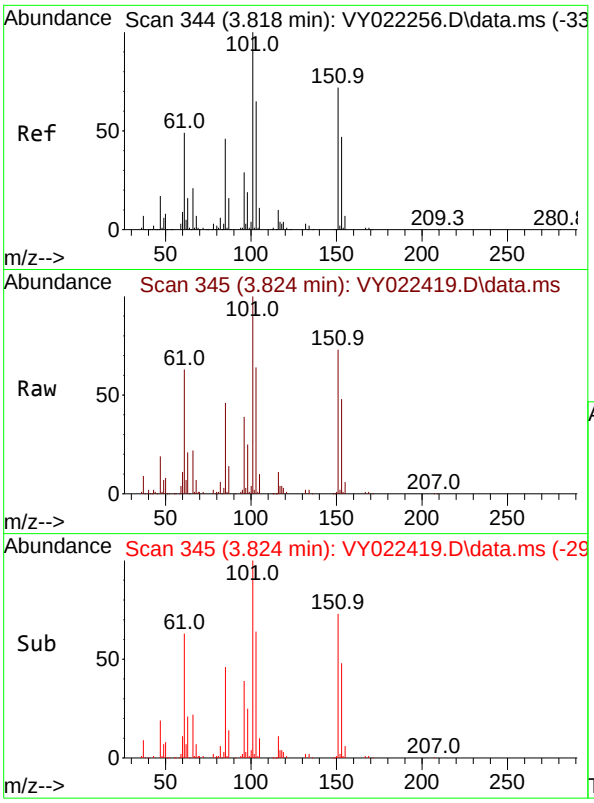


#8
Diethyl Ether
Concen: 56.356 ug/l
RT: 3.464 min Scan# 286
Delta R.T. 0.012 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion: 74 Resp: 63939

Ion	Ratio	Lower	Upper
74	100		
45	86.2	48.6	145.8





#9
1,1,2-Trichlorotrifluoroethane
Concen: 55.049 ug/l
RT: 3.824 min Scan# 34
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion:101 Resp: 11298

Ion	Ratio	Lower	Upper
101	100		
85	49.0	38.6	58.0
151	74.0	59.7	89.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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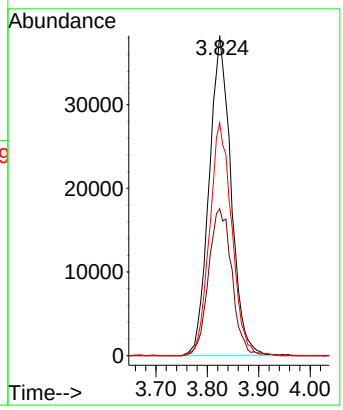
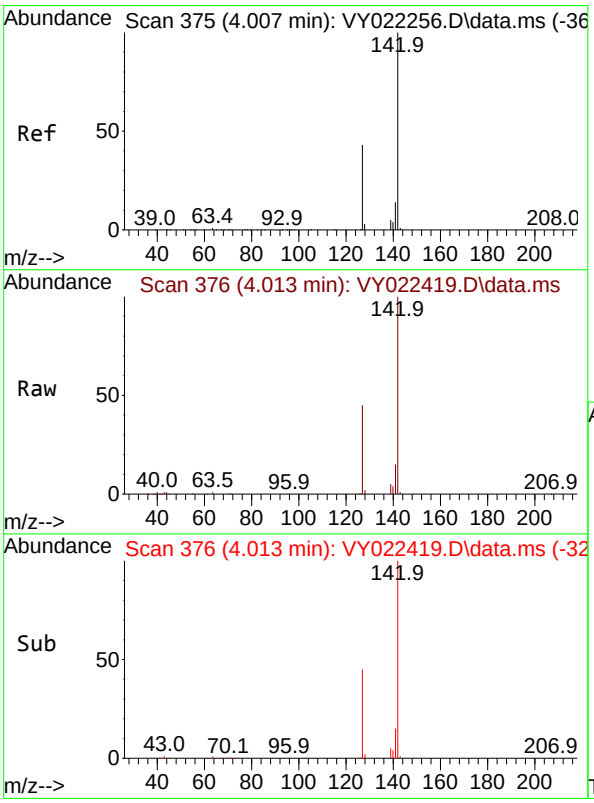
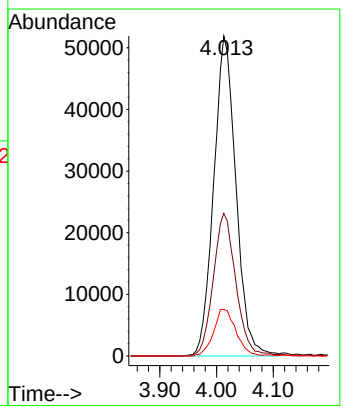


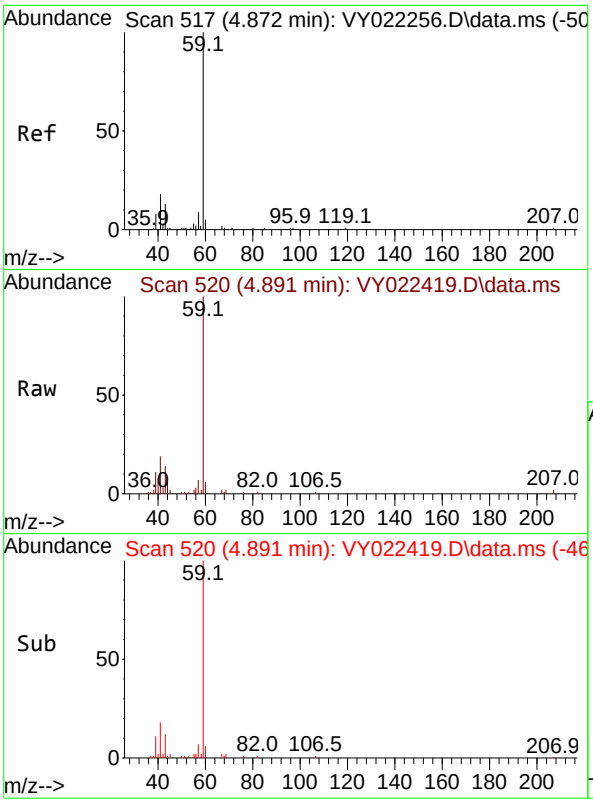


#10
Methyl Iodide
Concen: 59.458 ug/l
RT: 4.013 min Scan# 376
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion:142 Resp: 141238

Ion	Ratio	Lower	Upper
142	100		
127	45.4	35.7	53.5
141	14.7	11.1	16.7





#11
Tert butyl alcohol
Concen: 251.401 ug/l
RT: 4.891 min Scan# 5
Delta R.T. 0.018 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion: 59 Resp: 3995

Ion	Ratio	Lower	Upper
59	100		
57	7.2	0.0	0.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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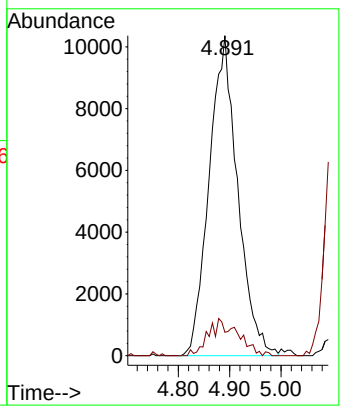
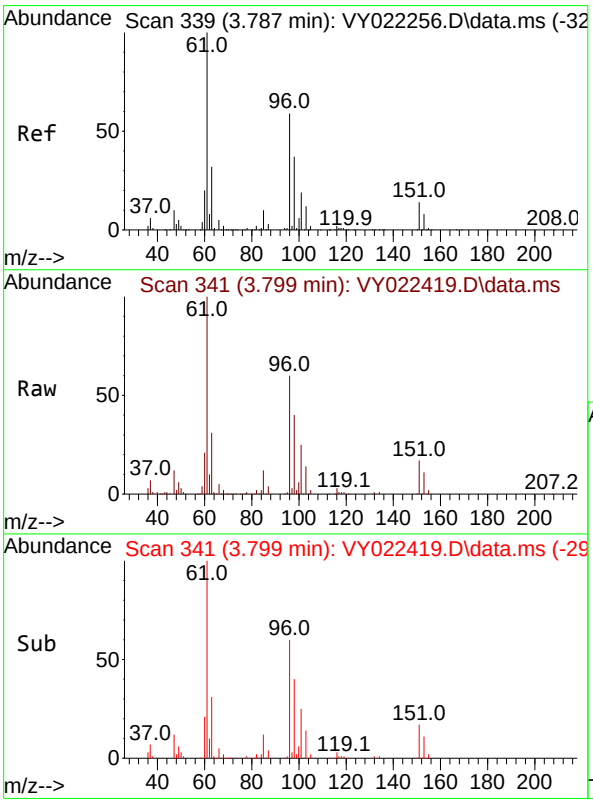
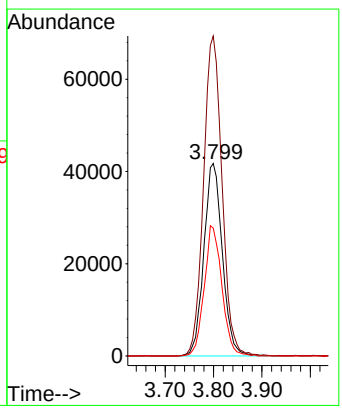


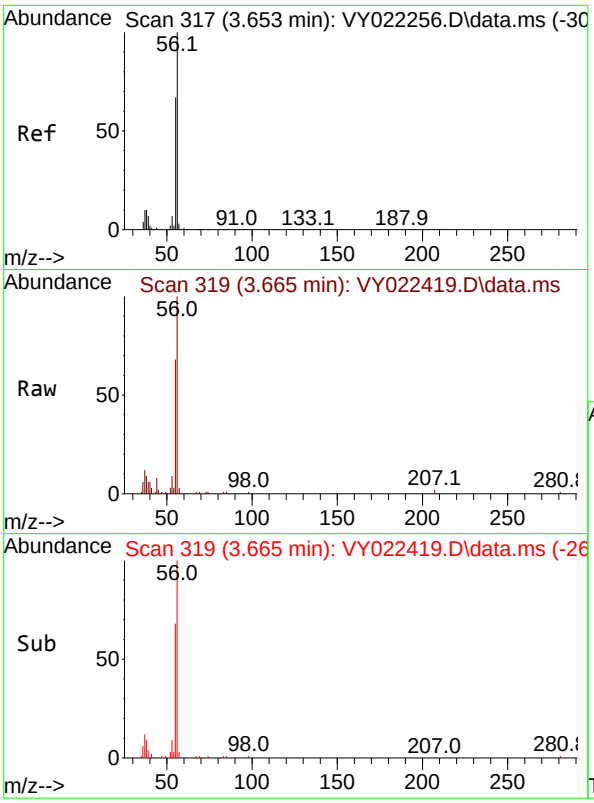


#12
1,1-Dichloroethene
Concen: 54.541 ug/l
RT: 3.799 min Scan# 341
Delta R.T. 0.012 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion: 96 Resp: 111084

Ion	Ratio	Lower	Upper
96	100		
61	166.2	134.9	202.3
98	66.4	49.9	74.9

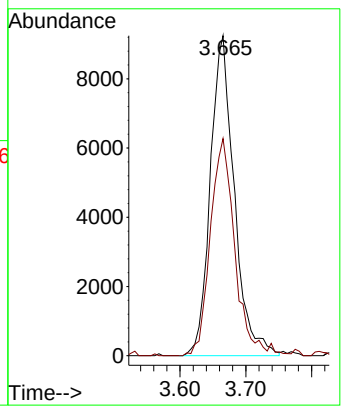




#13
Acrolein
Concen: 100.705 ug/l
RT: 3.665 min Scan# 3
Delta R.T. 0.012 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion: 56 Resp: 2339

Ion	Ratio	Lower	Upper
56	100		
55	68.5	55.6	83.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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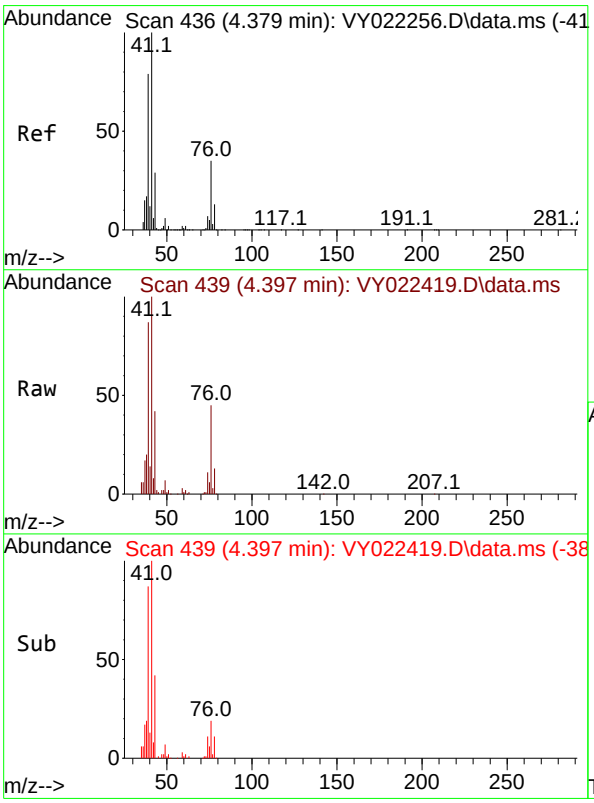
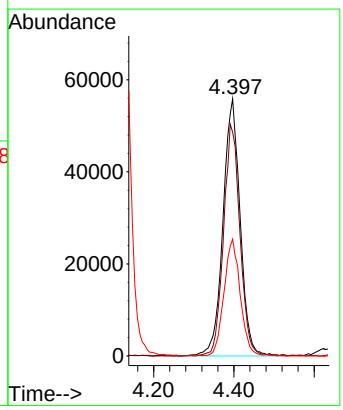
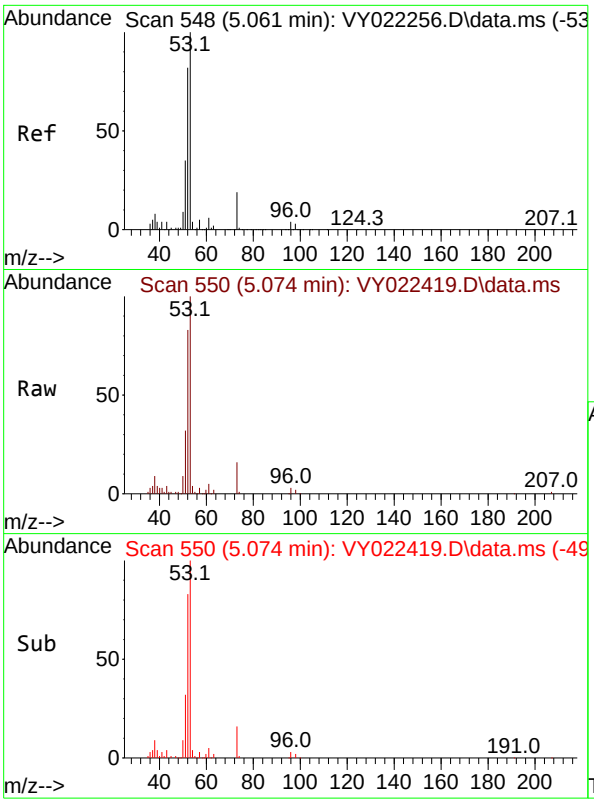


#14
Allyl chloride
Concen: 46.461 ug/l
RT: 4.397 min Scan# 439
Delta R.T. 0.018 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion: 41 Resp: 165922

Ion	Ratio	Lower	Upper
41	100		
39	86.2	63.4	95.0
76	43.2	29.5	44.3

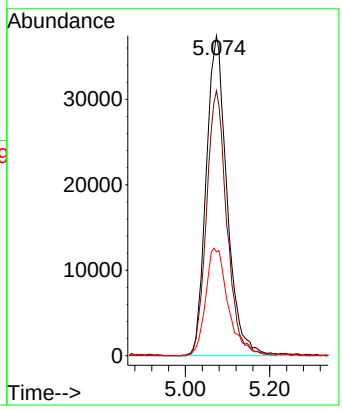




#15
Acrylonitrile
Concen: 275.131 ug/l
RT: 5.074 min Scan# 5
Delta R.T. 0.012 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion: 53 Resp: 12862

Ion	Ratio	Lower	Upper
53	100		
52	80.9	66.1	99.1
51	36.6	30.0	45.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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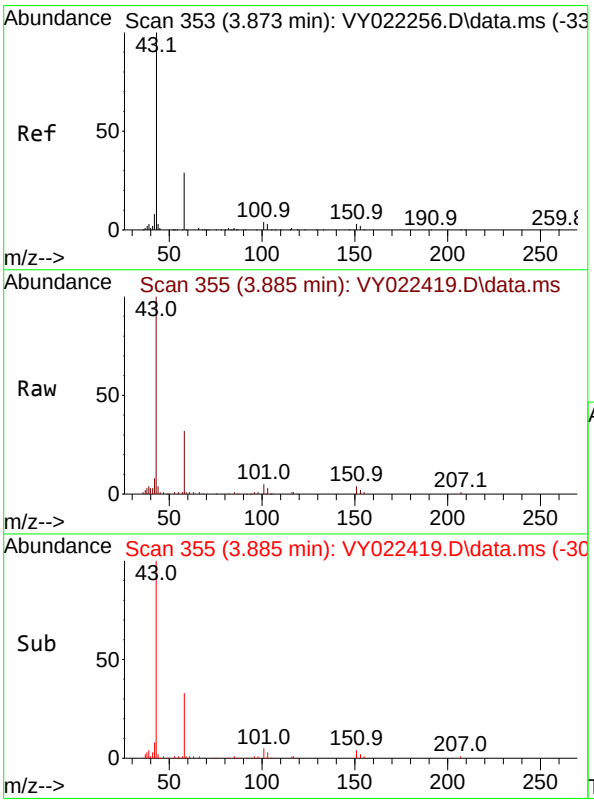
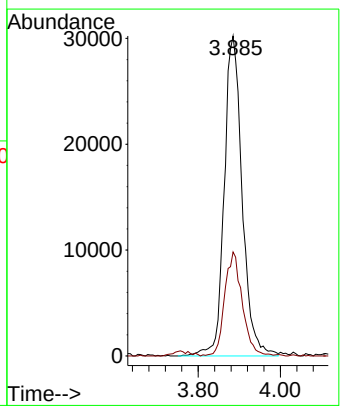
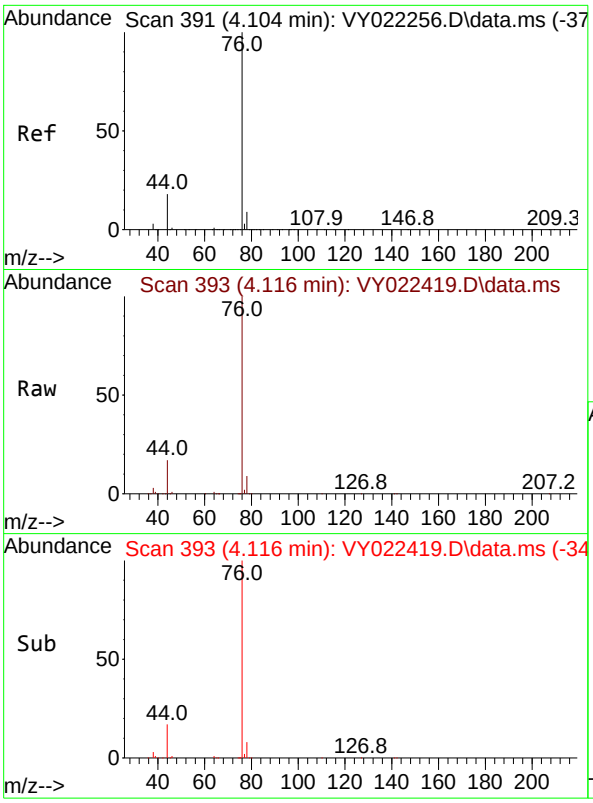


#16
Acetone
Concen: 235.742 ug/l
RT: 3.885 min Scan# 355
Delta R.T. 0.012 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion: 43 Resp: 91985

Ion	Ratio	Lower	Upper
43	100		
58	32.0	23.6	35.4

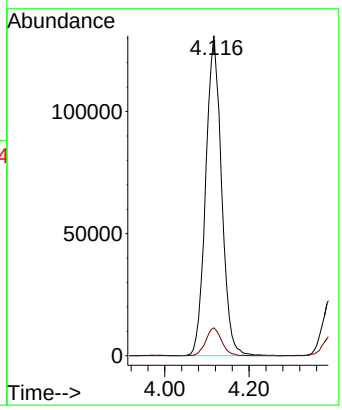




#17
Carbon Disulfide
Concen: 51.488 ug/l
RT: 4.116 min Scan# 3
Delta R.T. 0.012 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion: 76 Resp: 34196

Ion	Ratio	Lower	Upper
76	100		
78	8.7	7.2	10.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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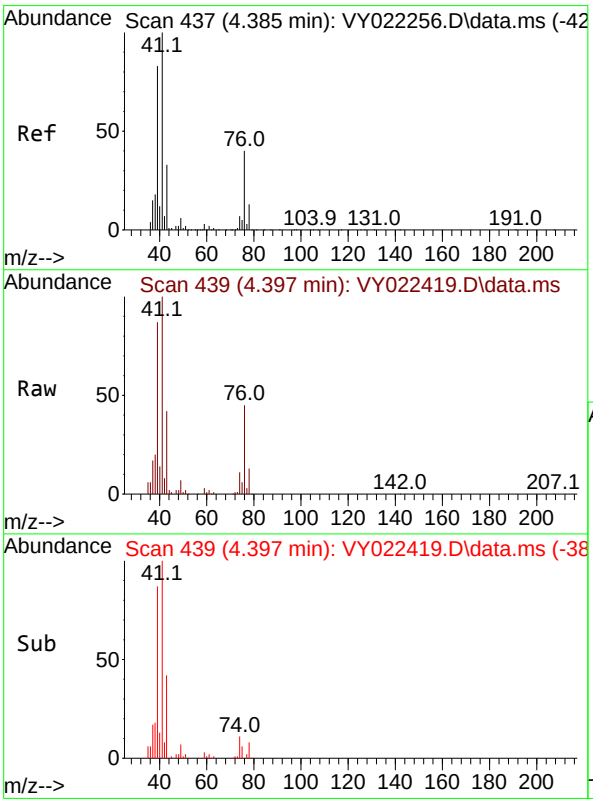
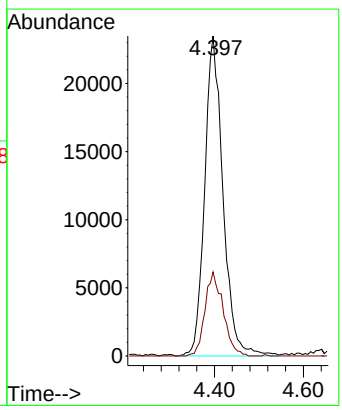
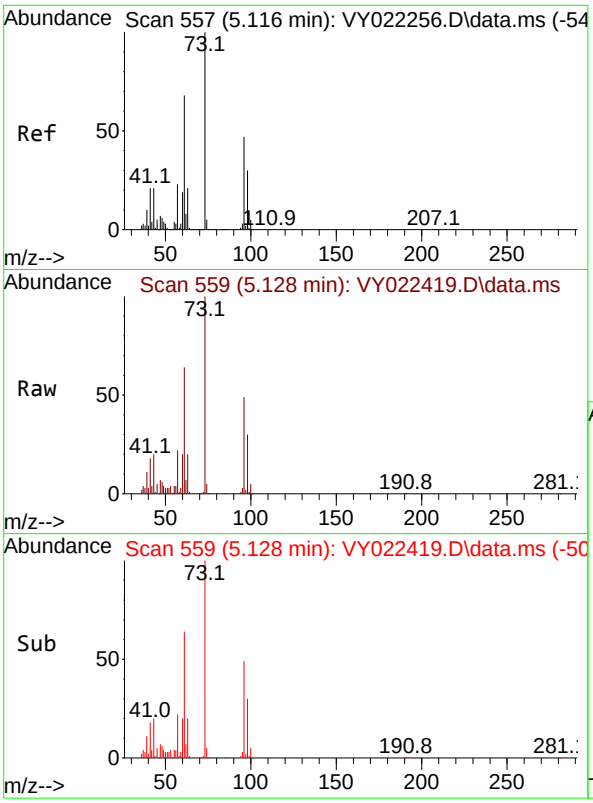


#18
Methyl Acetate
Concen: 54.790 ug/l
RT: 4.397 min Scan# 439
Delta R.T. 0.012 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion: 43 Resp: 67406

Ion	Ratio	Lower	Upper
43	100		
74	26.0	18.2	27.4





#19
Methyl tert-butyl Ether
Concen: 55.592 ug/l
RT: 5.128 min Scan# 5
Delta R.T. 0.012 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion: 73 Resp: 31219

Ion	Ratio	Lower	Upper
73	100		
57	21.6	18.6	28.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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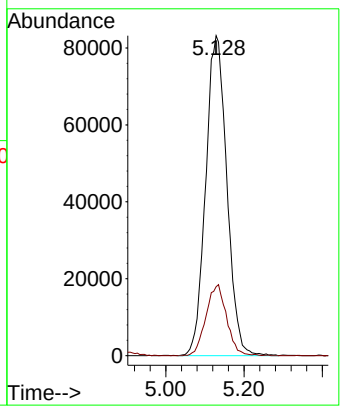
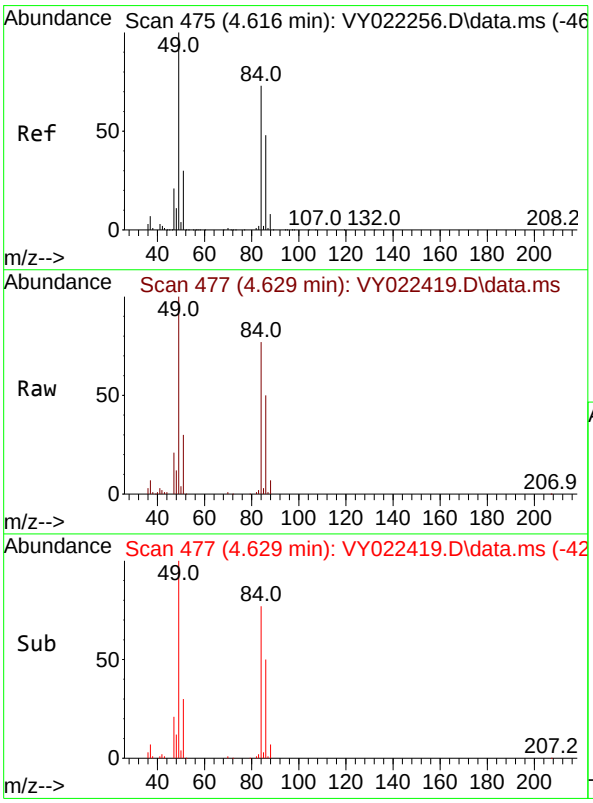
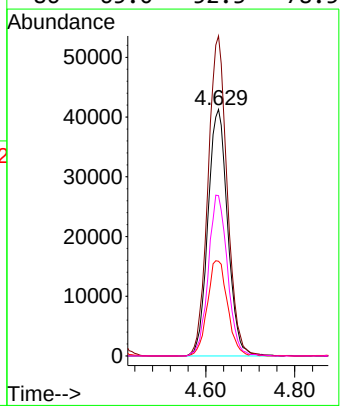


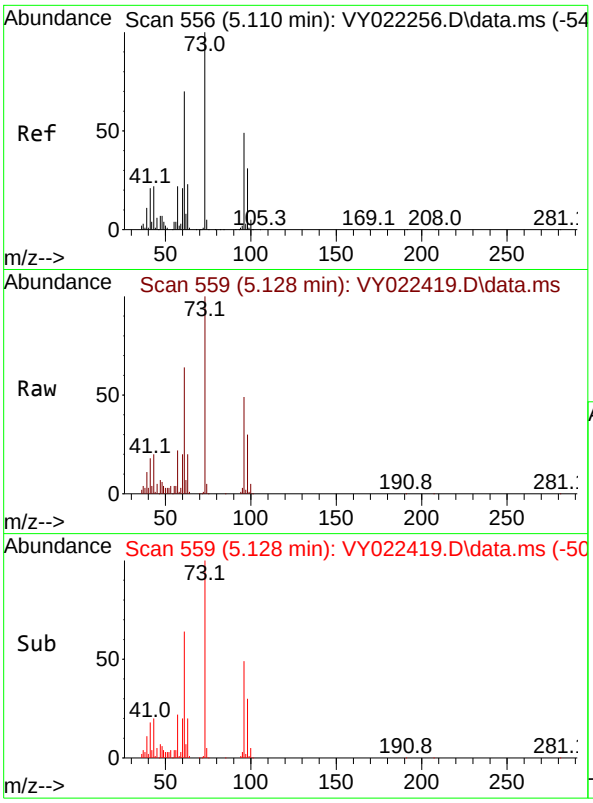


#20
Methylene Chloride
Concen: 50.340 ug/l
RT: 4.629 min Scan# 477
Delta R.T. 0.012 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion: 84 Resp: 126923

Ion	Ratio	Lower	Upper
84	100		
49	129.8	109.6	164.4
51	38.4	32.4	48.6
86	65.0	52.3	78.5





#21
trans-1,2-Dichloroethene
Concen: 55.161 ug/l
RT: 5.128 min Scan# 5
Delta R.T. 0.018 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion: 96 Resp: 12400

Ion	Ratio	Lower	Upper
96	100		
61	132.0	113.4	170.0
98	61.9	50.9	76.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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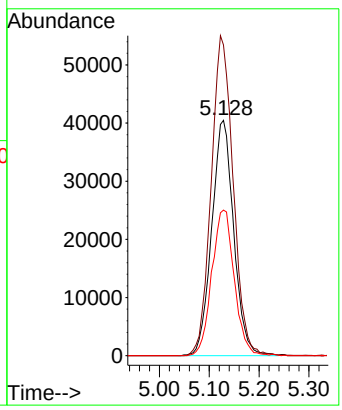
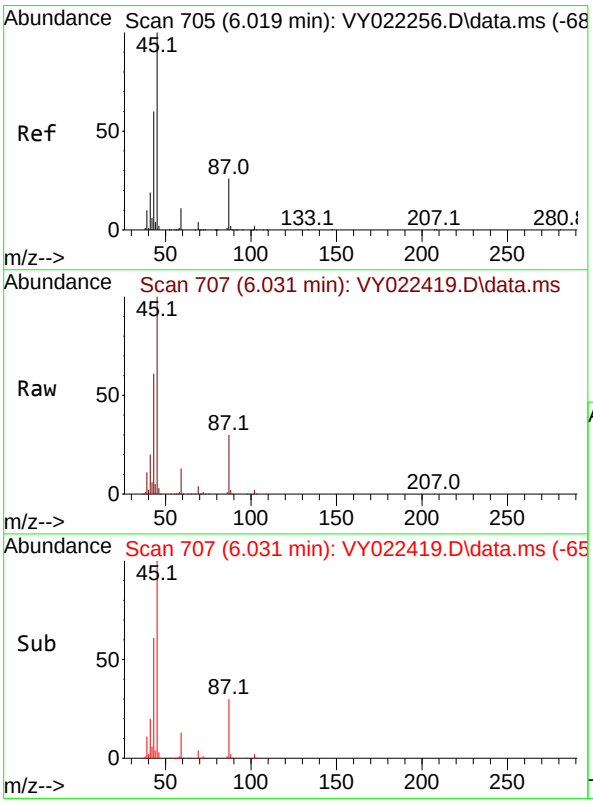
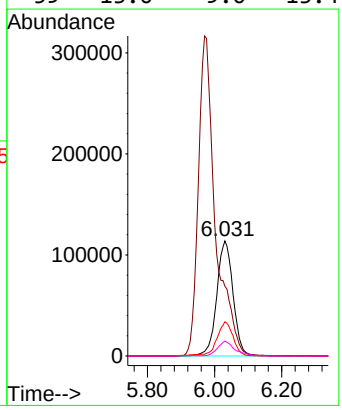


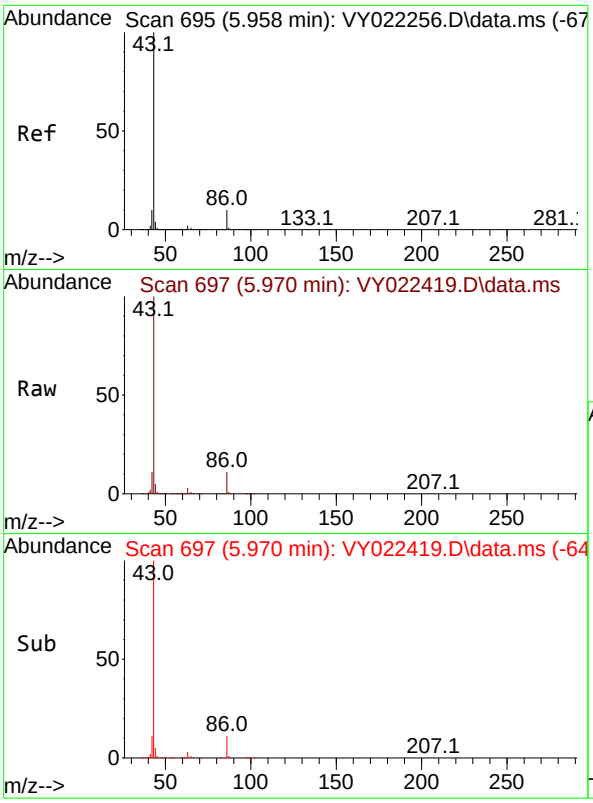


#22
Diisopropyl ether
Concen: 50.858 ug/l
RT: 6.031 min Scan# 707
Delta R.T. 0.012 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion: 45 Resp: 383549

Ion	Ratio	Lower	Upper
45	100		
43	60.6	48.2	72.2
87	29.8	21.4	32.0
59	13.0	9.0	13.4

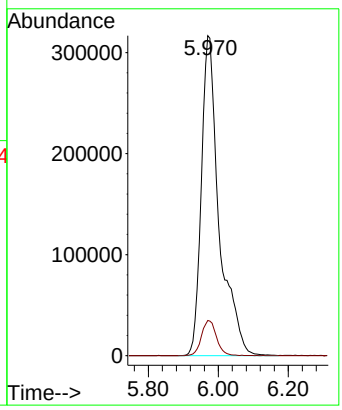




#23
Vinyl Acetate
Concen: 245.783 ug/l
RT: 5.970 min Scan# 6
Delta R.T. 0.012 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion: 43 Resp: 111982

Ion	Ratio	Lower	Upper
43	100		
86	11.0	7.8	11.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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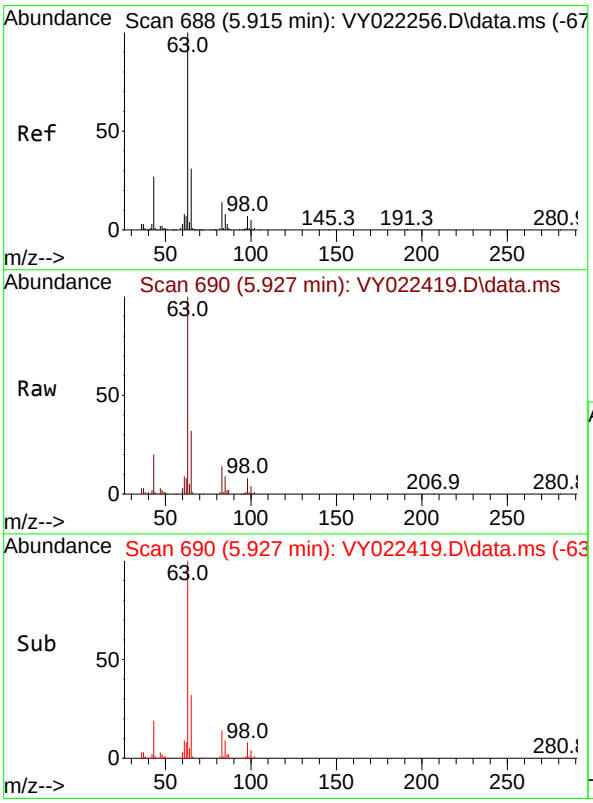
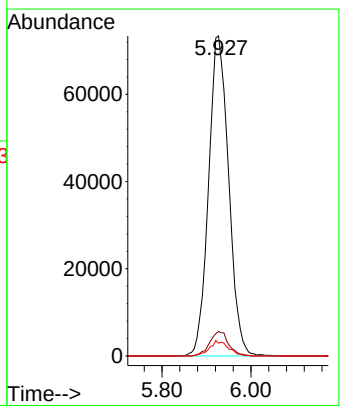
Reviewed By :Mahesh Dadoda 05/27/2025
Supervised By :Semsettin Yesilyurt 05/27/2025

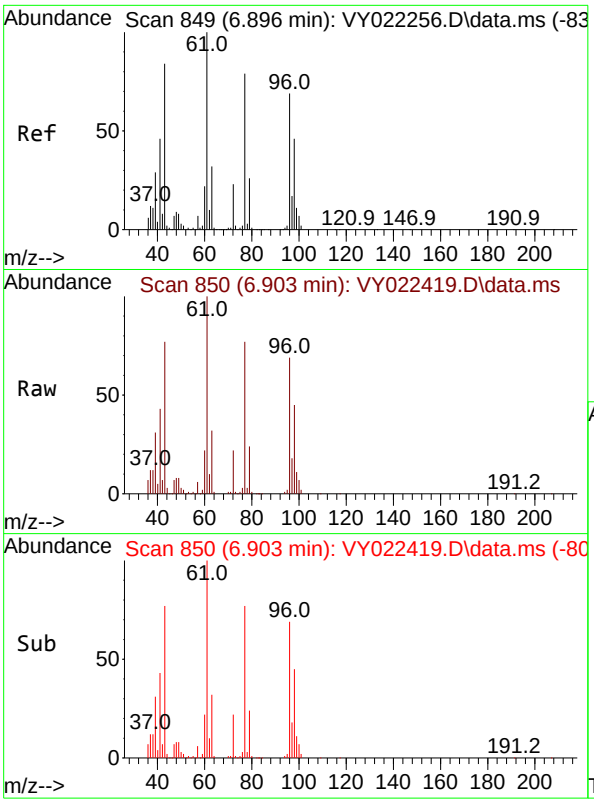


#24
1,1-Dichloroethane
Concen: 54.648 ug/l
RT: 5.927 min Scan# 690
Delta R.T. 0.012 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion: 63 Resp: 230248

Ion	Ratio	Lower	Upper
63	100		
98	7.7	3.5	10.5
100	4.0	2.4	7.2





#25
2-Butanone
Concen: 245.808 ug/l
RT: 6.903 min Scan# 8
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion: 43 Resp: 16043

Ion	Ratio	Lower	Upper
43	100		
72	28.9	22.1	33.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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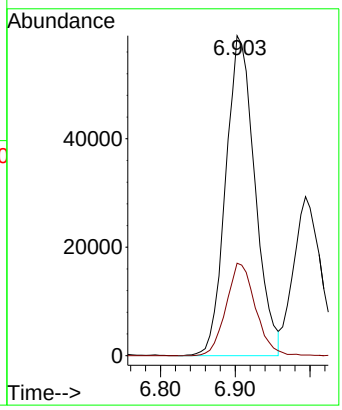
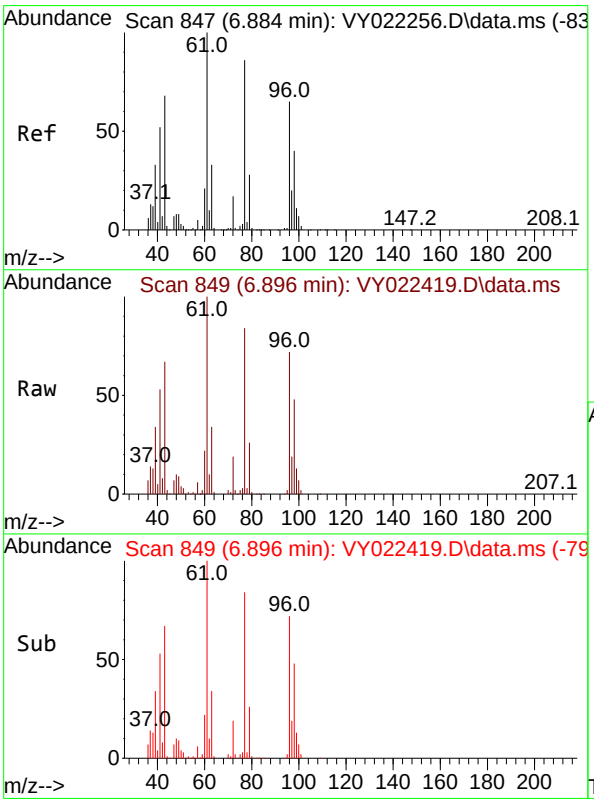
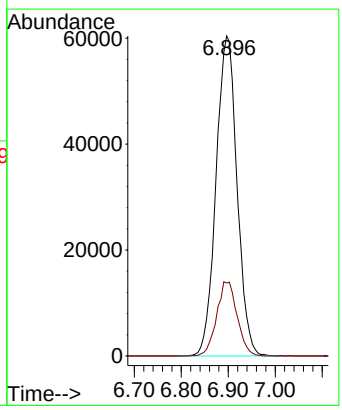


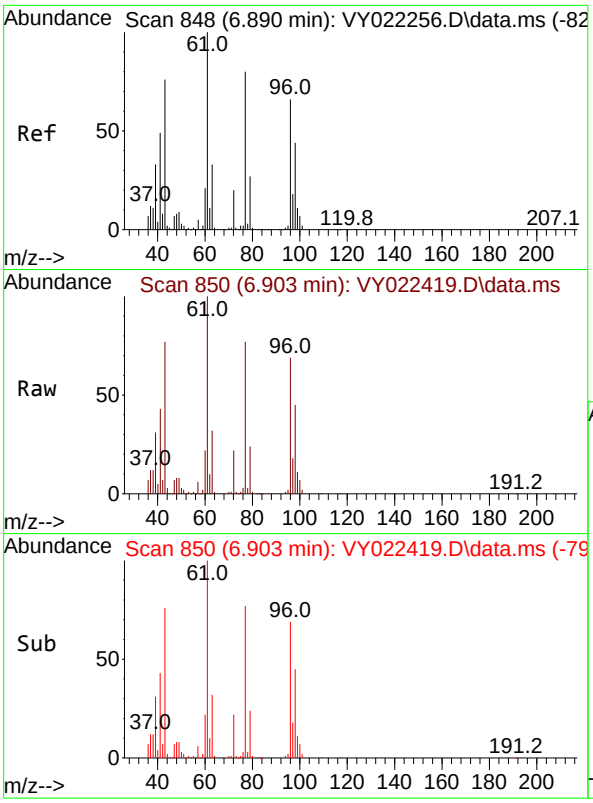


#26
2,2-Dichloropropane
Concen: 50.072 ug/l
RT: 6.896 min Scan# 849
Delta R.T. 0.012 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion: 77 Resp: 187644

Ion	Ratio	Lower	Upper
77	100		
97	22.7	11.2	33.5

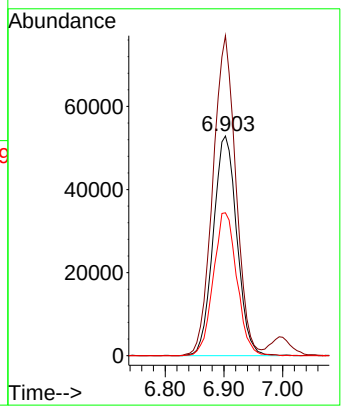




#27
cis-1,2-Dichloroethene
Concen: 56.905 ug/l
RT: 6.903 min Scan# 8
Delta R.T. 0.012 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion: 96 Resp: 14762

Ion	Ratio	Lower	Upper
96	100		
61	142.2	0.0	302.6
98	64.9	0.0	128.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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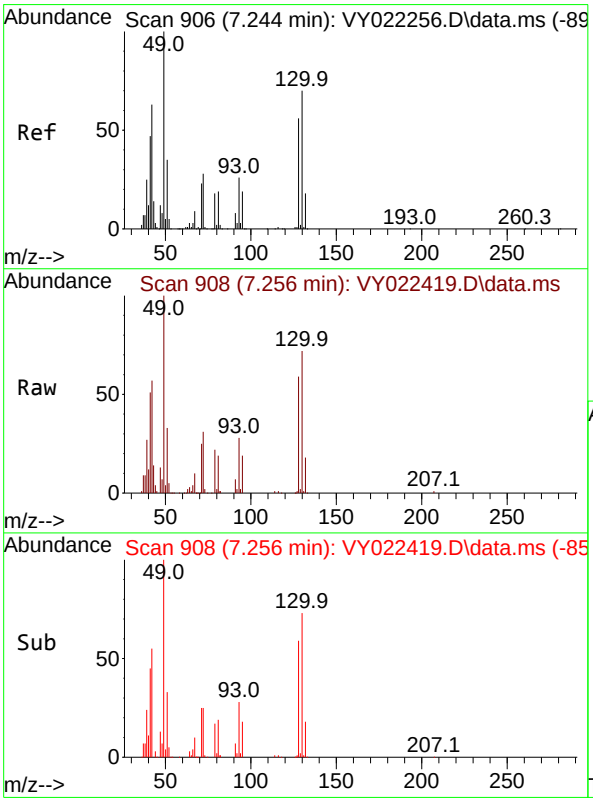
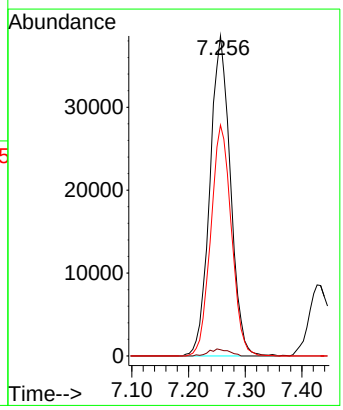
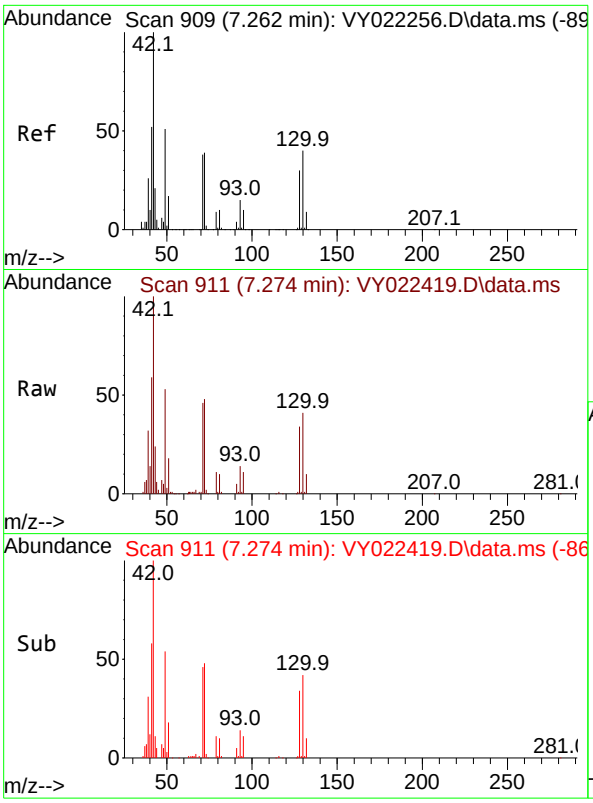


#28
Bromochloromethane
Concen: 53.972 ug/l
RT: 7.256 min Scan# 908
Delta R.T. 0.012 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion: 49 Resp: 96996

Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	3.6
130	72.4	54.7	82.1





#29
Tetrahydrofuran
Concen: 254.973 ug/l
RT: 7.274 min Scan# 9
Delta R.T. 0.012 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion: 42 Resp: 10706

Ion	Ratio	Lower	Upper
42	100		
72	47.7	33.8	50.6
71	44.7	31.5	47.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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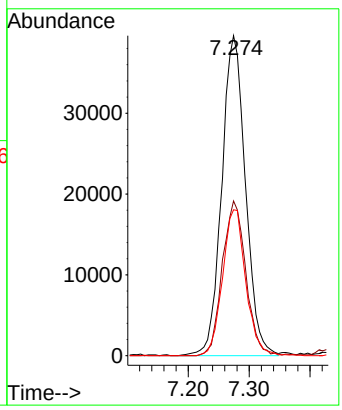
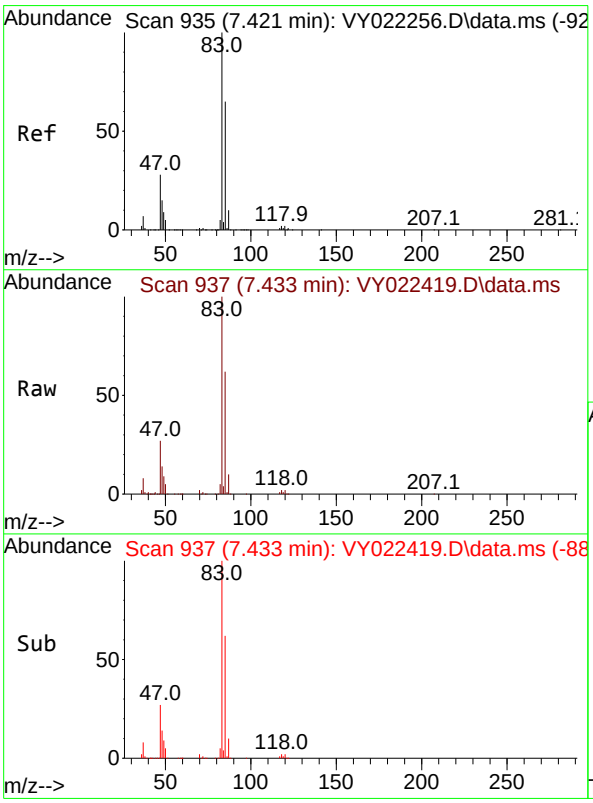
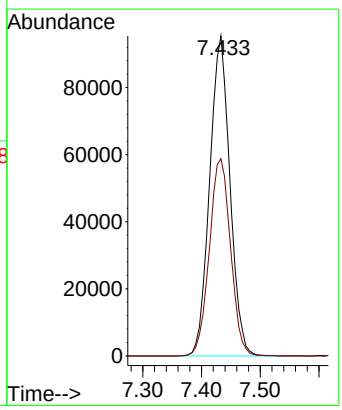


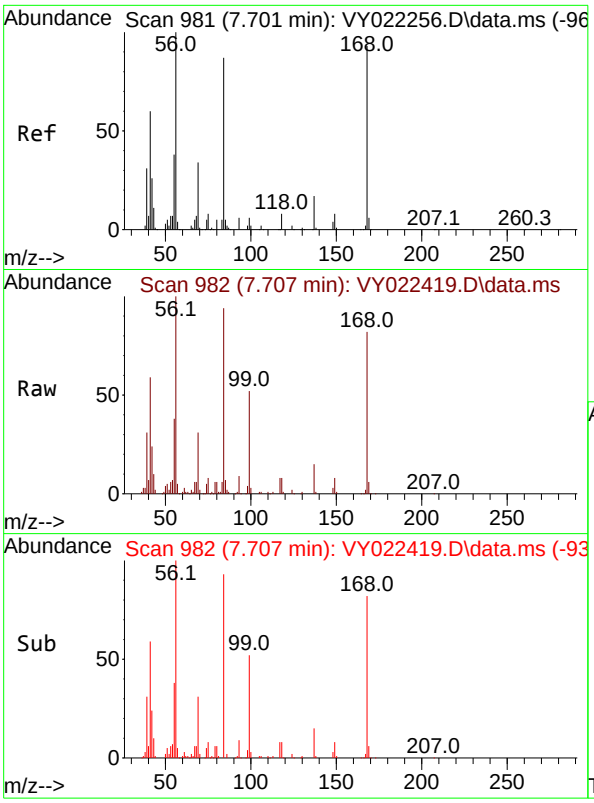


#30
Chloroform
Concen: 56.544 ug/l
RT: 7.433 min Scan# 937
Delta R.T. 0.012 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion: 83 Resp: 228513

Ion	Ratio	Lower	Upper
83	100		
85	61.6	51.8	77.8





#31
Cyclohexane
Concen: 47.672 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion: 56 Resp: 20068

Ion	Ratio	Lower	Upper
56	100		
69	31.1	27.4	41.2
84	91.9	70.0	105.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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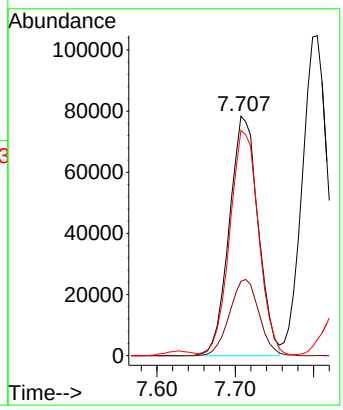
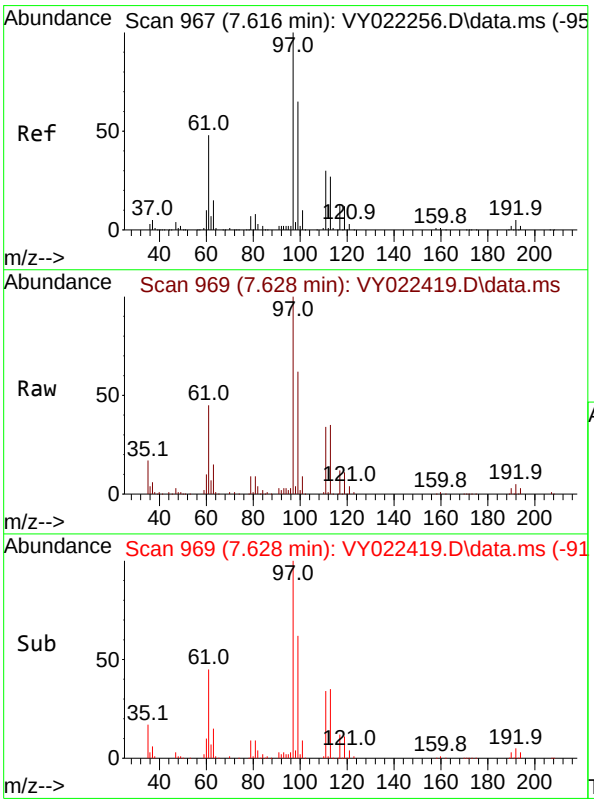
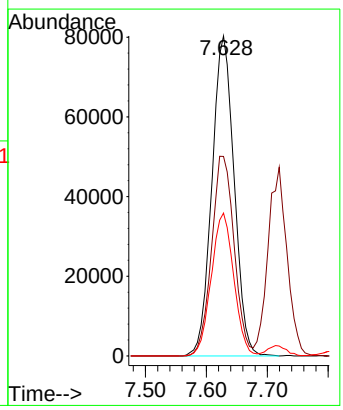


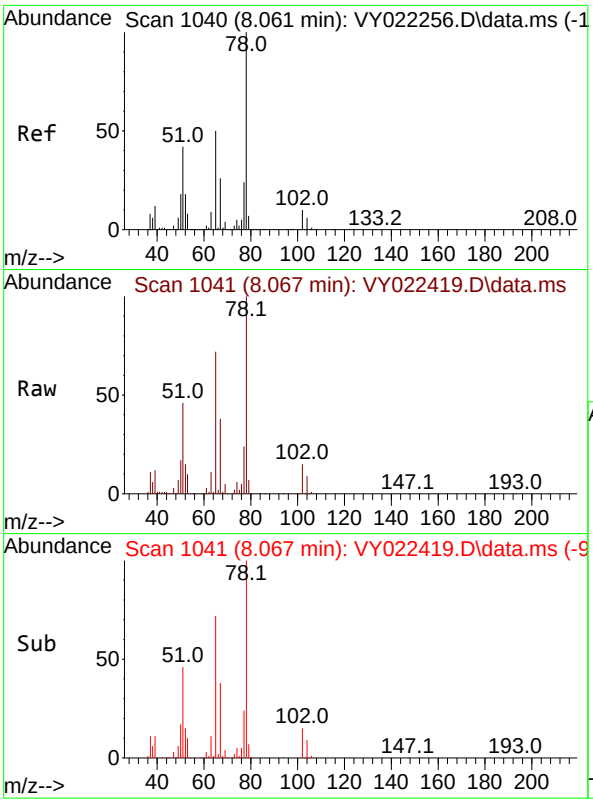


#32
1,1,1-Trichloroethane
Concen: 54.799 ug/l
RT: 7.628 min Scan# 969
Delta R.T. 0.012 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion: 97 Resp: 203180

Ion	Ratio	Lower	Upper
97	100		
99	63.6	51.4	77.0
61	45.3	38.1	57.1

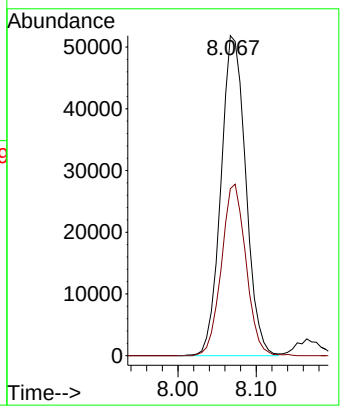




#33
1,2-Dichloroethane-d4
Concen: 54.908 ug/l
RT: 8.067 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion: 65 Resp: 11426

Ion	Ratio	Lower	Upper
65	100		
67	52.8	0.0	104.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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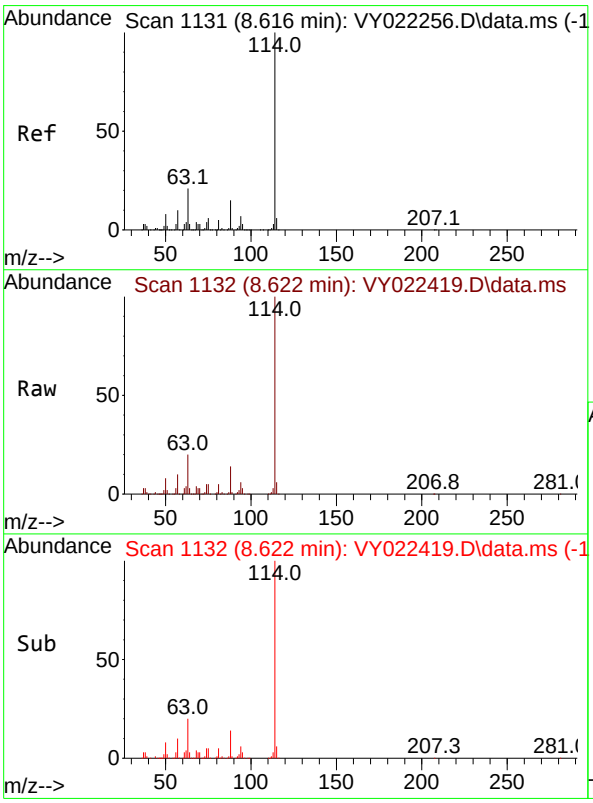
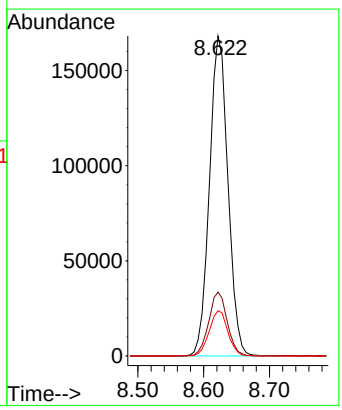
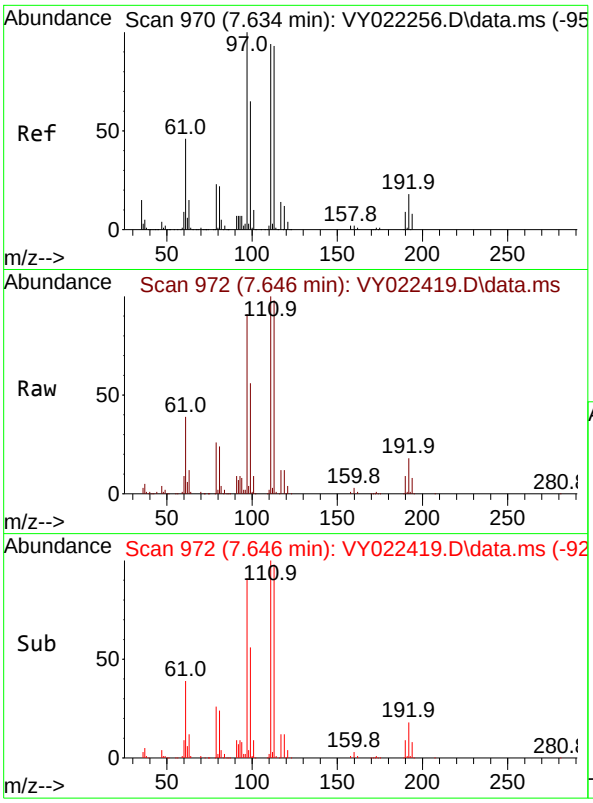


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.622 min Scan# 1132
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion:114 Resp: 328619

Ion	Ratio	Lower	Upper
114	100		
63	19.9	0.0	41.0
88	14.2	0.0	29.4





#35
Dibromofluoromethane
Concen: 56.277 ug/l
RT: 7.646 min Scan# 9
Delta R.T. 0.012 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion:113 Resp: 11038

Ion	Ratio	Lower	Upper
113	100		
111	101.3	82.6	123.8
192	17.4	15.2	22.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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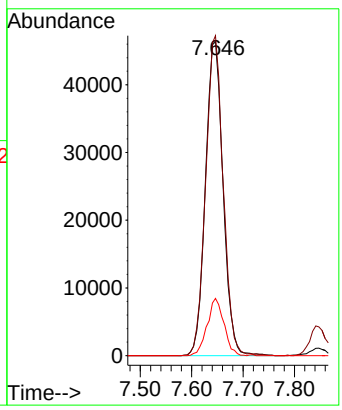
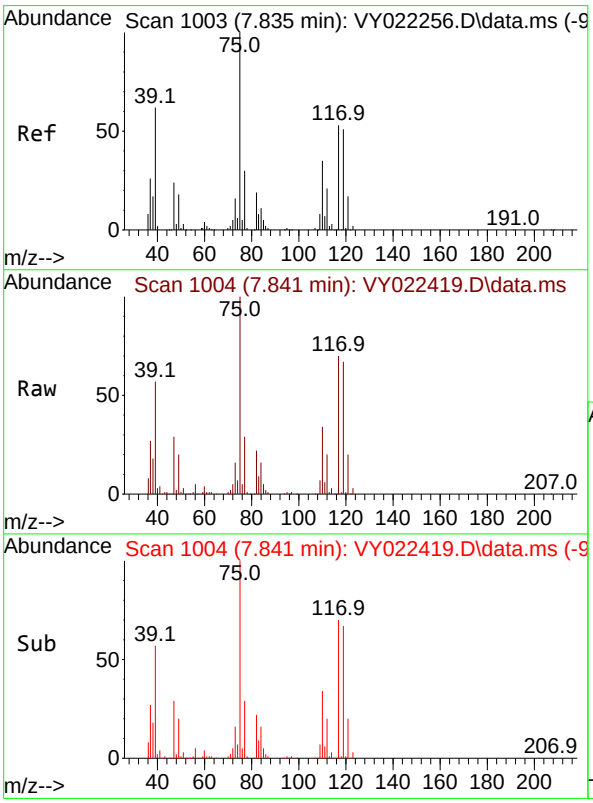
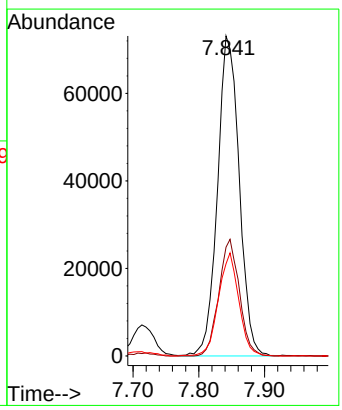


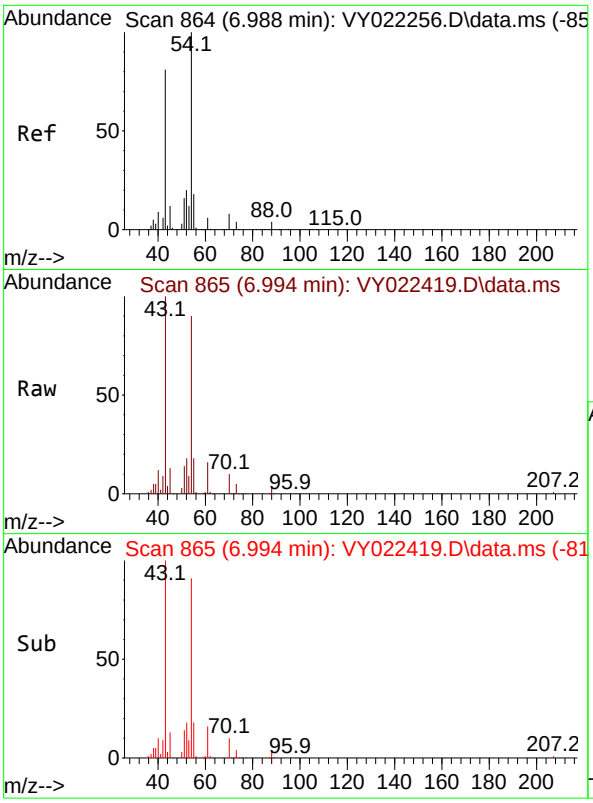


#36
1,1-Dichloropropene
Concen: 52.050 ug/l
RT: 7.841 min Scan# 1004
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion: 75 Resp: 168154

Ion	Ratio	Lower	Upper
75	100		
110	34.5	16.6	49.8
77	30.3	24.6	37.0





#37
Ethyl Acetate
Concen: 49.449 ug/l
RT: 6.994 min Scan# 8
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion: 43 Resp: 7686

Ion	Ratio	Lower	Upper
43	100		
61	14.9	10.2	15.2
70	9.7	7.6	11.4

Instrument :
MSVOA_Y
ClientSampleId :
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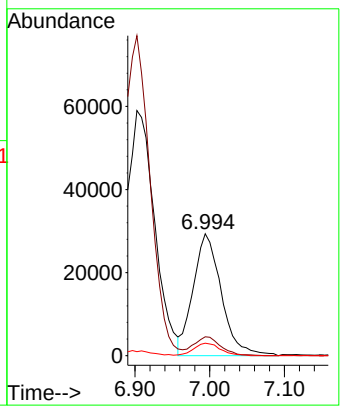
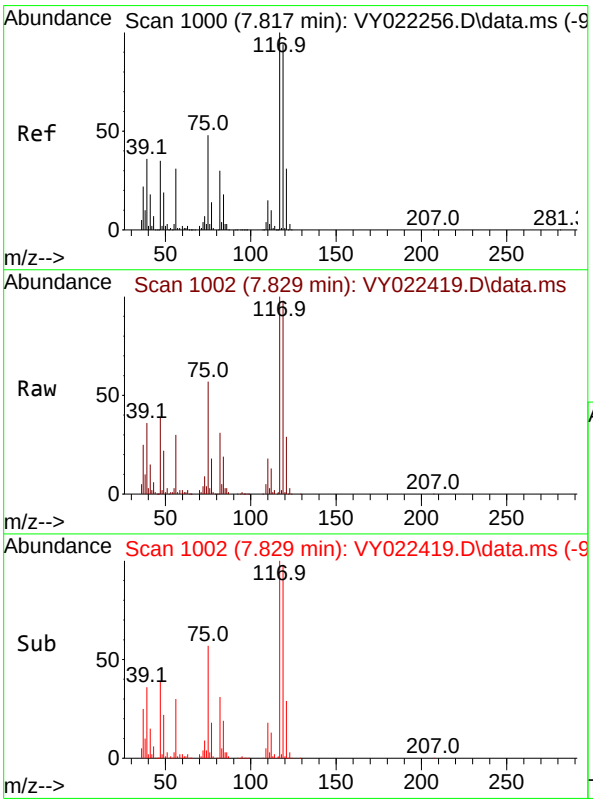
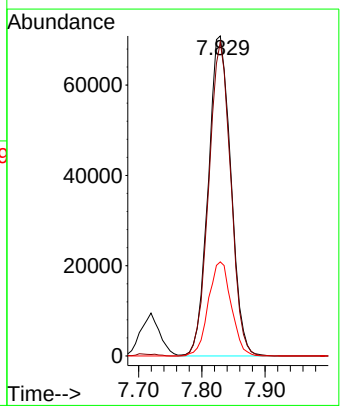


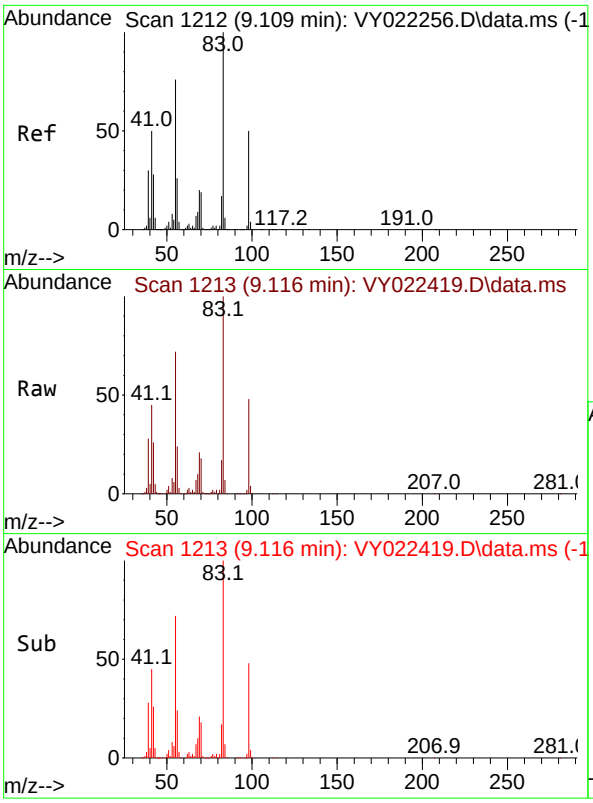


#38
Carbon Tetrachloride
Concen: 52.656 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. 0.012 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion:117 Resp: 176086

Ion	Ratio	Lower	Upper
117	100		
119	98.1	75.3	112.9
121	29.4	24.7	37.1





#39
Methylcyclohexane
Concen: 51.480 ug/l
RT: 9.116 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion: 83 Resp: 22344

Ion	Ratio	Lower	Upper
83	100		
55	72.2	60.6	90.8
98	48.5	40.0	60.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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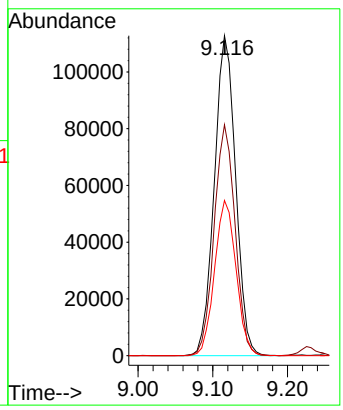
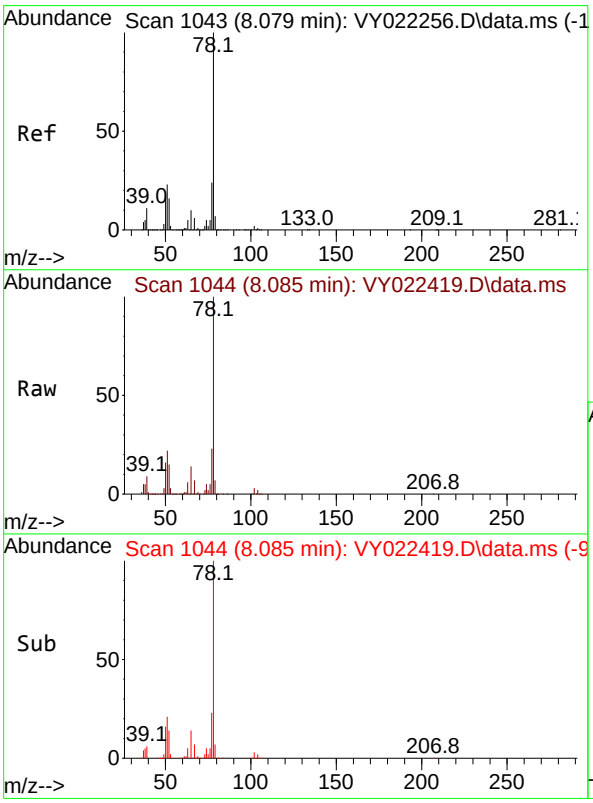
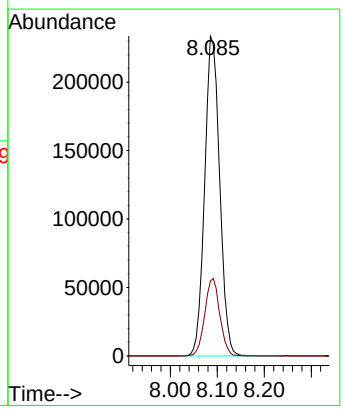


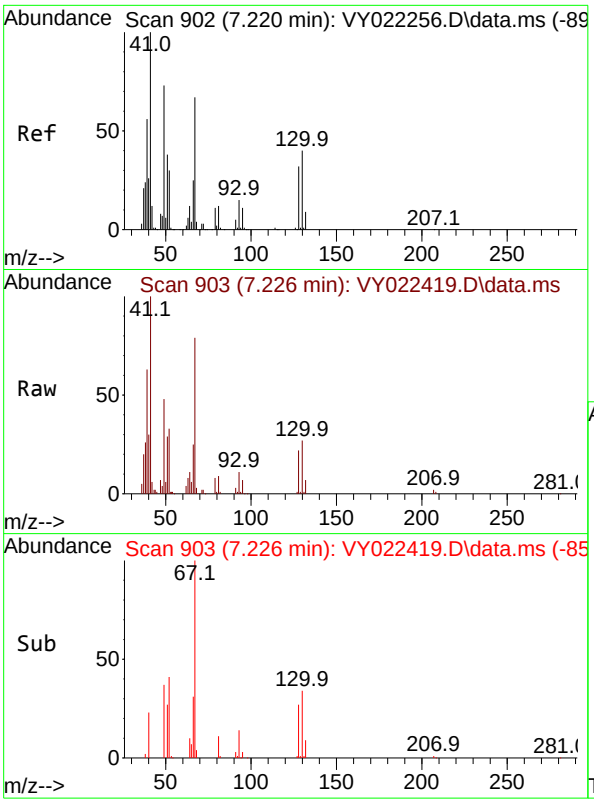


#40
Benzene
Concen: 54.034 ug/l
RT: 8.085 min Scan# 1044
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion: 78 Resp: 517497

Ion	Ratio	Lower	Upper
78	100		
77	23.4	18.9	28.3





#41
Methacrylonitrile
Concen: 44.335 ug/l m
RT: 7.226 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 41 Resp: 4571

Ion	Ratio	Lower	Upper
41	100		
39	56.3	39.1	58.7
67	74.6	47.1	70.7#
52	32.3	21.4	32.0#

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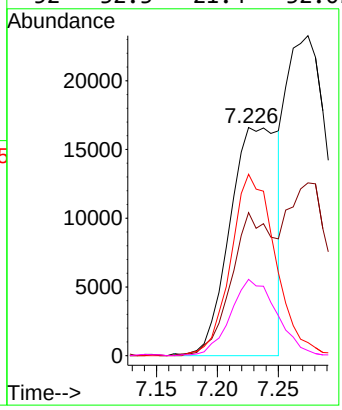
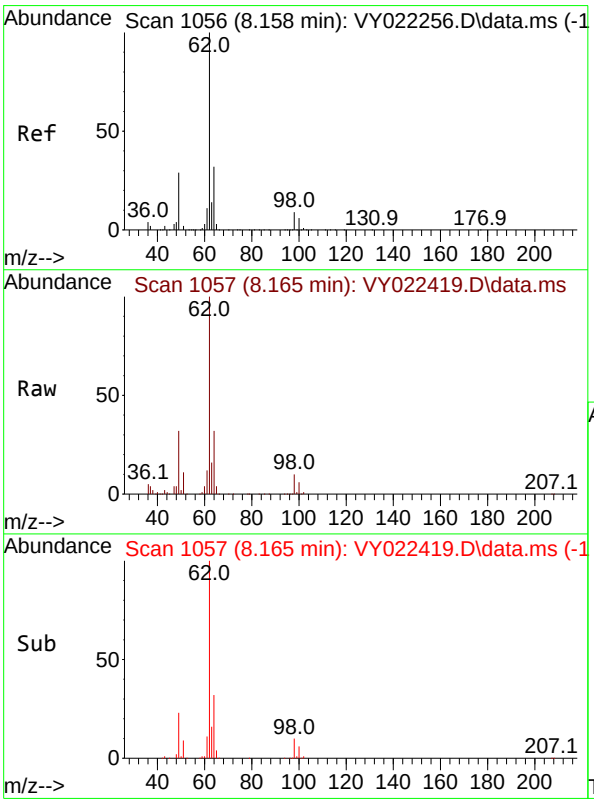
Supervised By :Semsettin Yesilyurt 05/27/2025

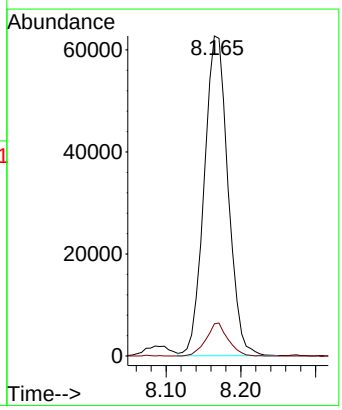


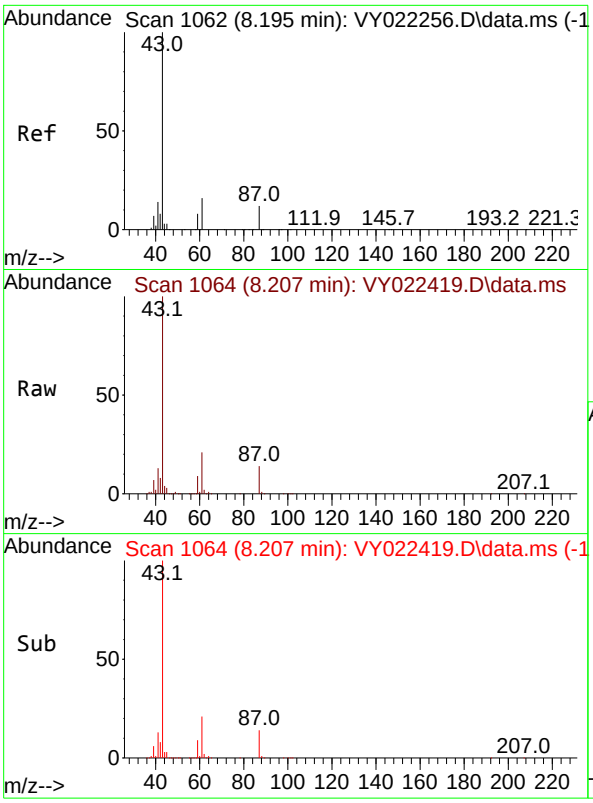


#42
1,2-Dichloroethane
Concen: 53.602 ug/l
RT: 8.165 min Scan# 1057
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion: 62 Resp: 138825

Ion	Ratio	Lower	Upper
62	100		
98	9.5	0.0	18.4

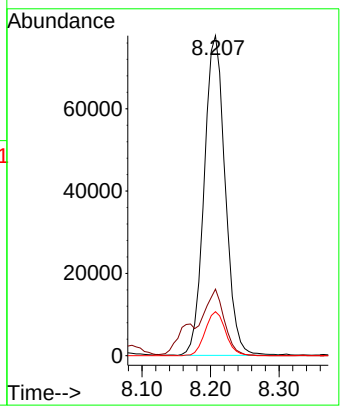




#43
Isopropyl Acetate
Concen: 48.817 ug/l
RT: 8.207 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion: 43 Resp: 16549

Ion	Ratio	Lower	Upper
43	100		
61	20.6	15.1	22.7
87	13.5	9.7	14.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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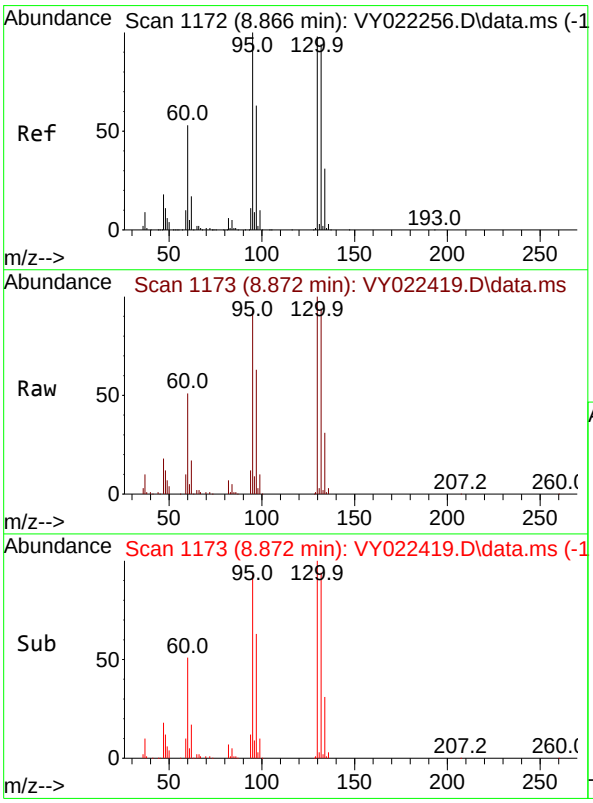
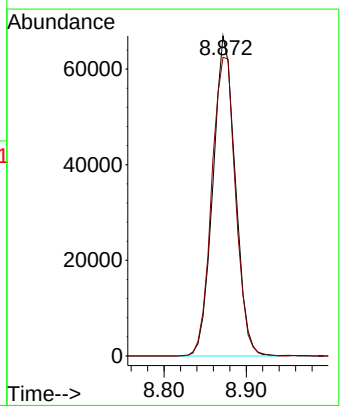
Supervised By :Semsettin Yesilyurt 05/27/2025

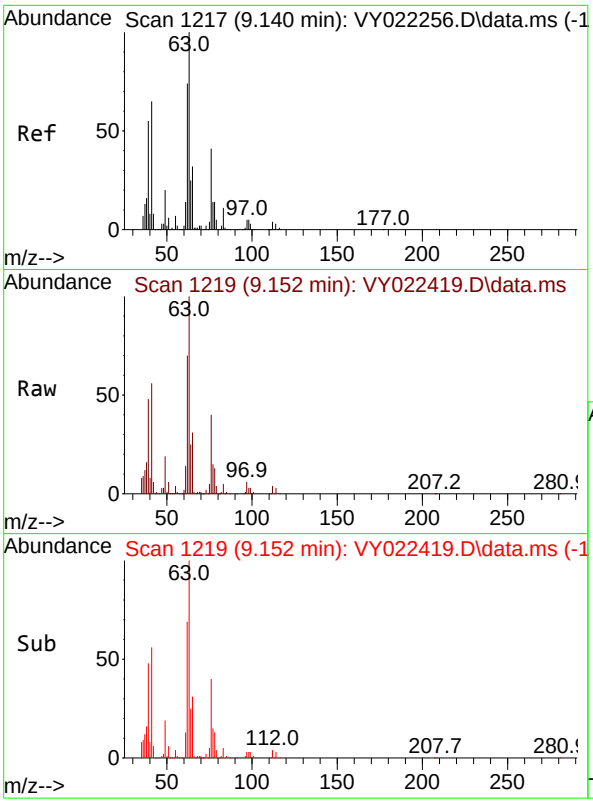


#44
Trichloroethene
Concen: 52.965 ug/l
RT: 8.872 min Scan# 1173
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion:130 Resp: 126129

Ion	Ratio	Lower	Upper
130	100		
95	93.3	0.0	204.8

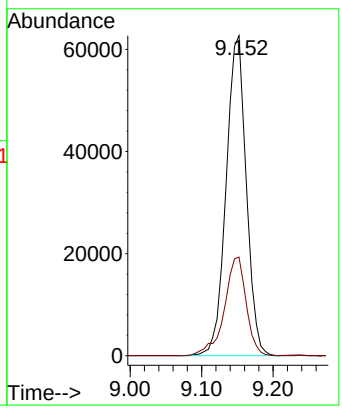




#45
1,2-Dichloropropane
Concen: 53.082 ug/l
RT: 9.152 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion: 63 Resp: 12256

Ion	Ratio	Lower	Upper
63	100		
65	30.8	25.7	38.5



Instrument :
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ClientSampleId :
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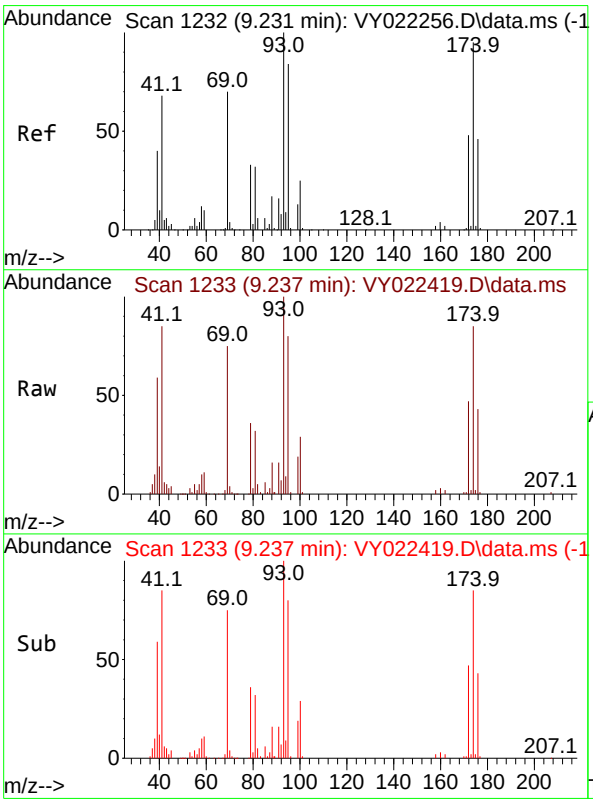
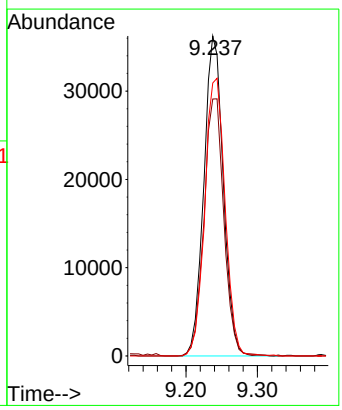
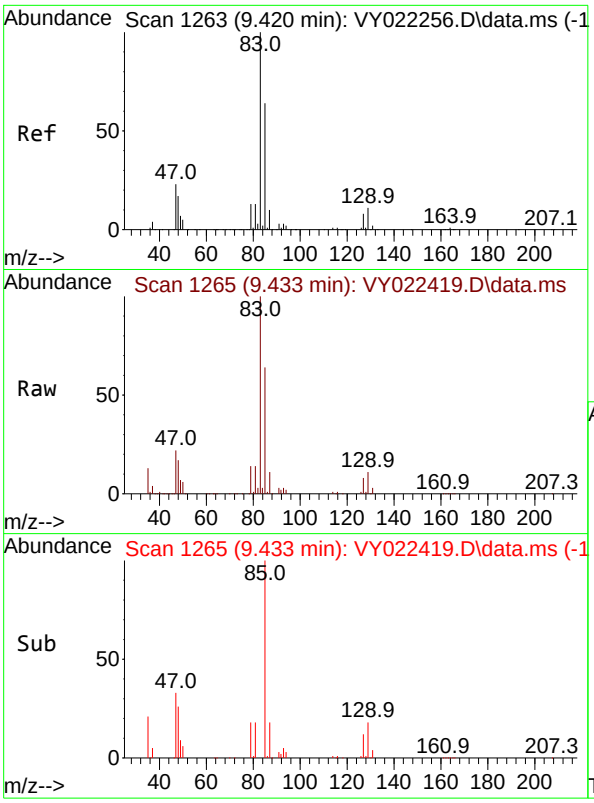


#46
Dibromomethane
Concen: 55.024 ug/l
RT: 9.237 min Scan# 1233
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion: 93 Resp: 68525

Ion	Ratio	Lower	Upper
93	100		
95	82.0	65.2	97.8
174	90.8	74.3	111.5

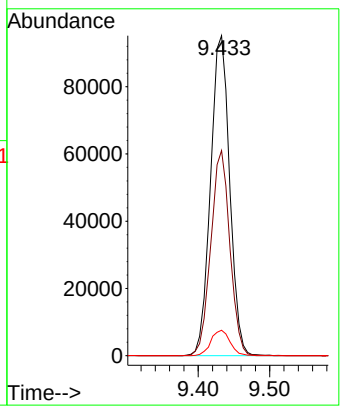




#47
Bromodichloromethane
Concen: 54.621 ug/l
RT: 9.433 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion: 83 Resp: 17647

Ion	Ratio	Lower	Upper
83	100		
85	64.1	51.1	76.7
127	7.9	6.6	10.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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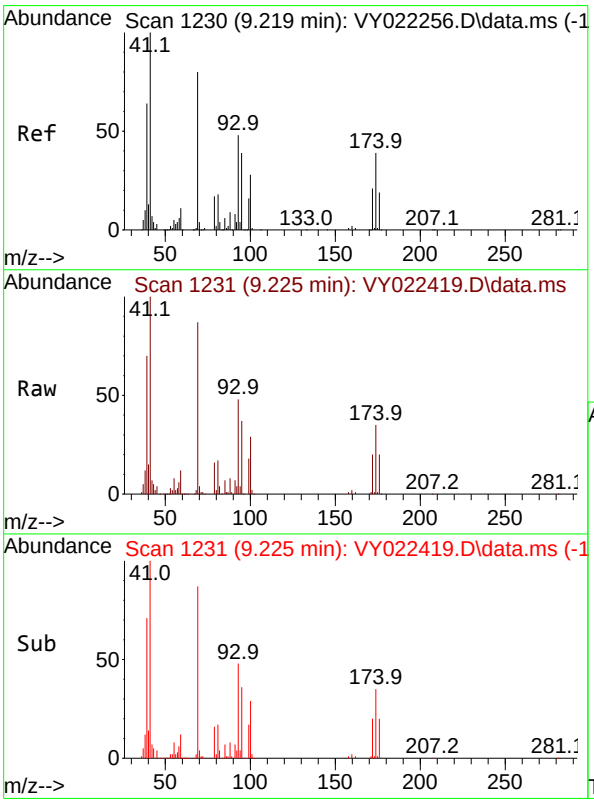
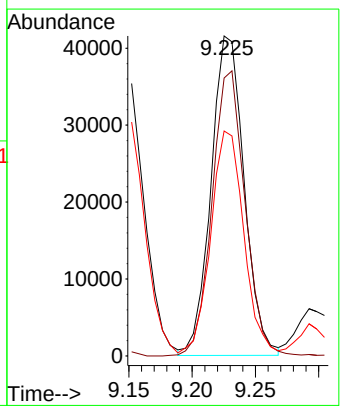
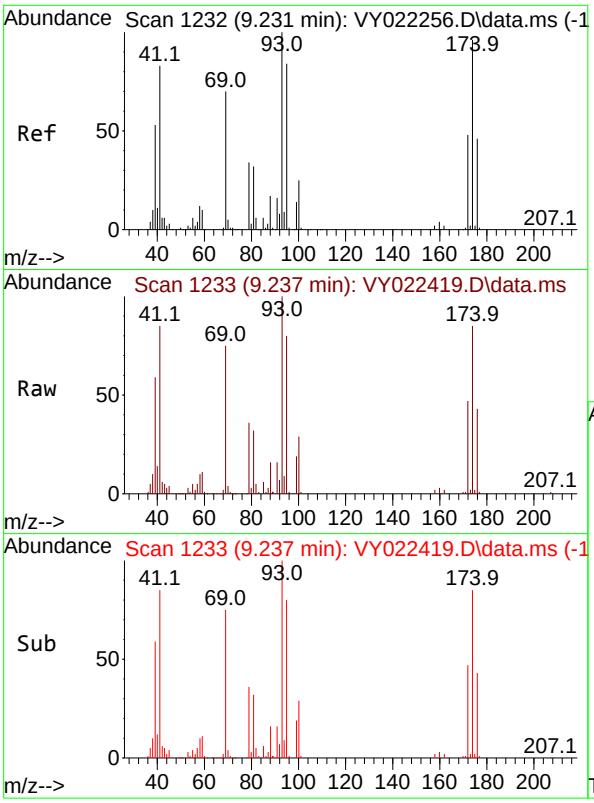


#48
Methyl methacrylate
Concen: 47.724 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion: 41 Resp: 75659

Ion	Ratio	Lower	Upper
41	100		
69	88.9	63.5	95.3
39	68.8	50.8	76.2

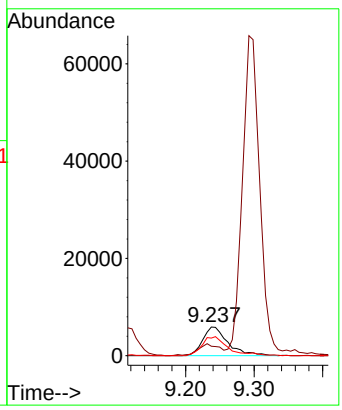




#49
1,4-Dioxane
Concen: 1075.695 ug/l
RT: 9.237 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion: 88 Resp: 1513

Ion	Ratio	Lower	Upper
88	100		
43	34.4	28.5	42.7
58	68.6	61.4	92.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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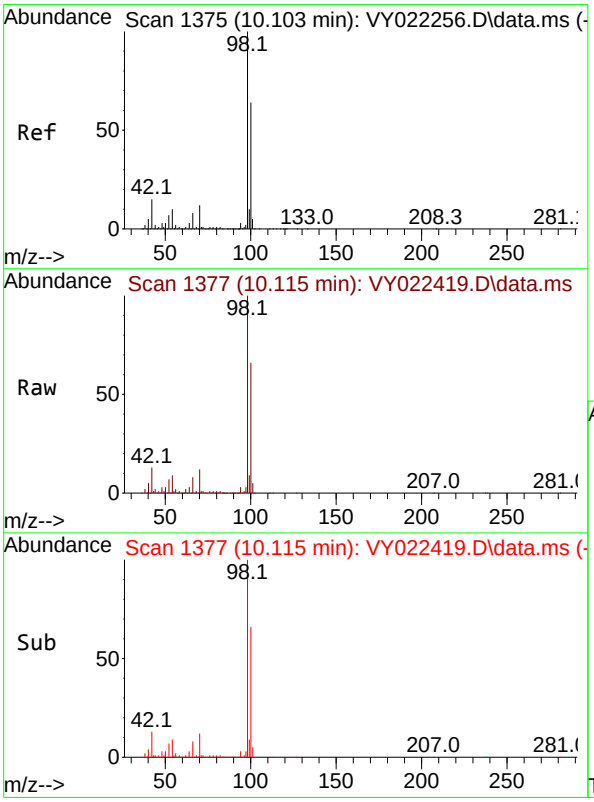
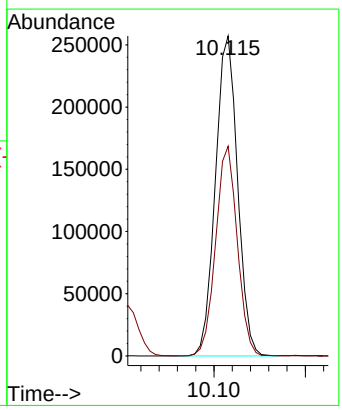
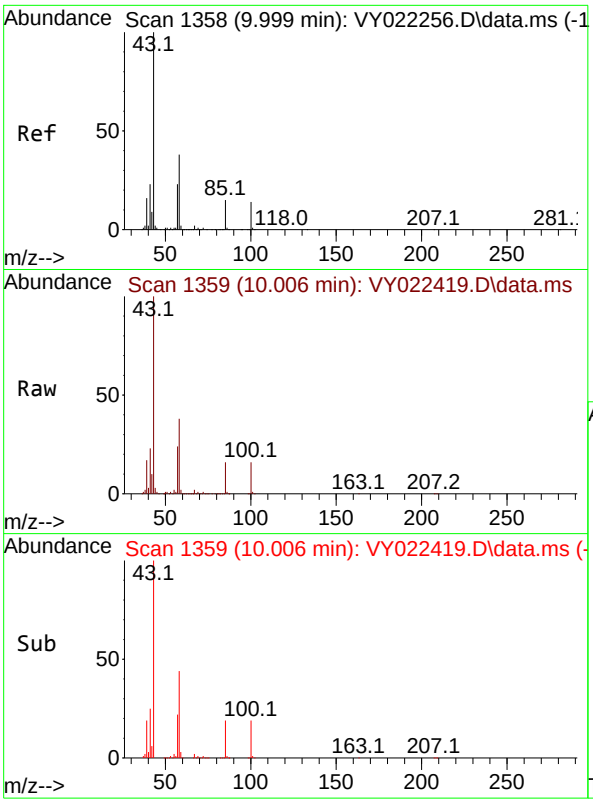


#50
Toluene-d8
Concen: 53.924 ug/l
RT: 10.115 min Scan# 1377
Delta R.T. 0.012 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion: 98 Resp: 433174

Ion	Ratio	Lower	Upper
98	100		
100	64.0	51.8	77.8

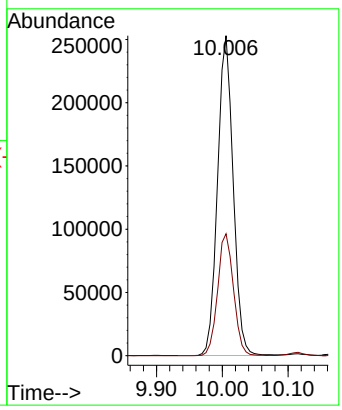




#51
4-Methyl-2-Pentanone
Concen: 251.669 ug/l
RT: 10.006 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion: 43 Resp: 41862

Ion	Ratio	Lower	Upper
43	100		
58	38.7	29.4	44.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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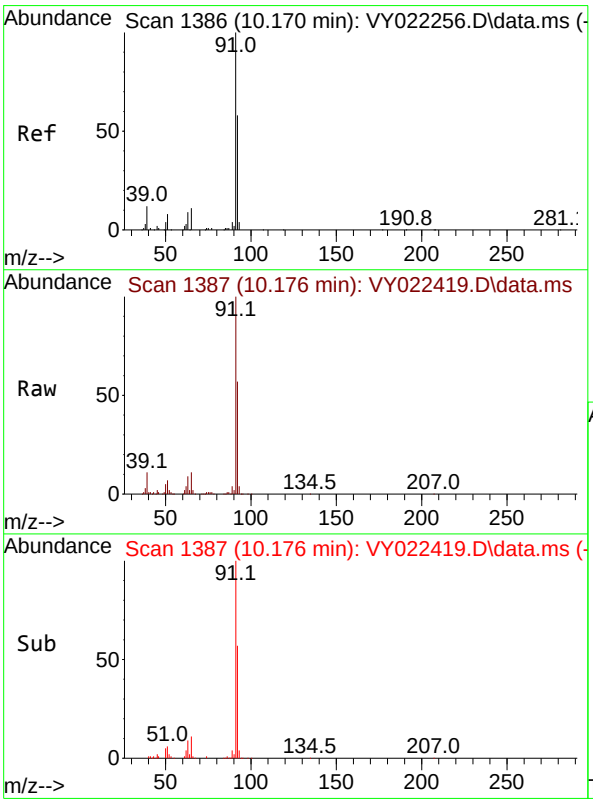
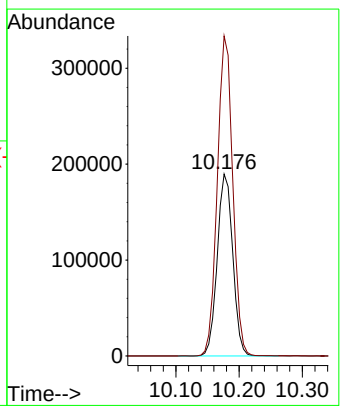
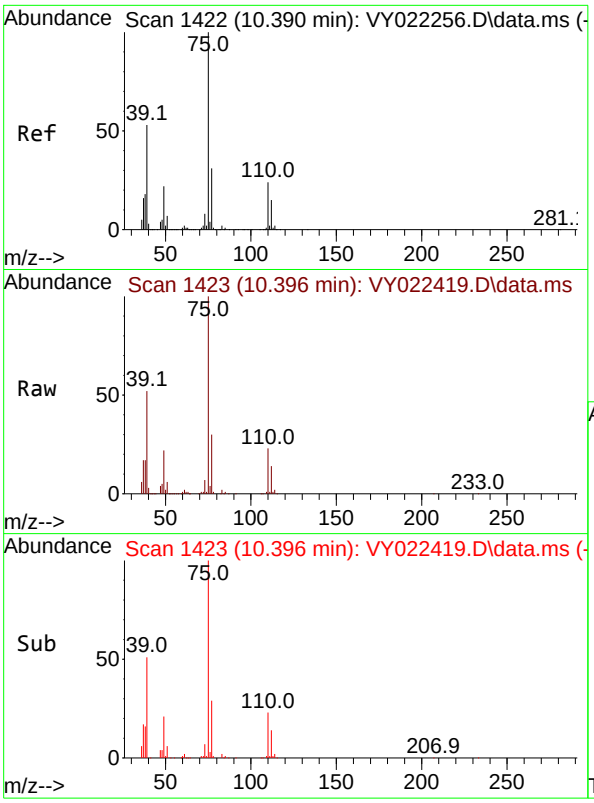


#52
Toluene
Concen: 53.021 ug/l
RT: 10.176 min Scan# 1387
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion: 92 Resp: 321553

Ion	Ratio	Lower	Upper
92	100		
91	174.9	139.1	208.7

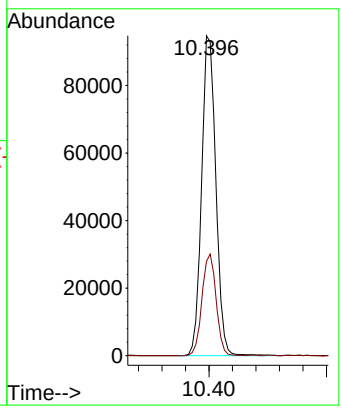




#53
t-1,3-Dichloropropene
Concen: 50.611 ug/l
RT: 10.396 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion: 75 Resp: 15957

Ion	Ratio	Lower	Upper
75	100		
77	29.5	25.0	37.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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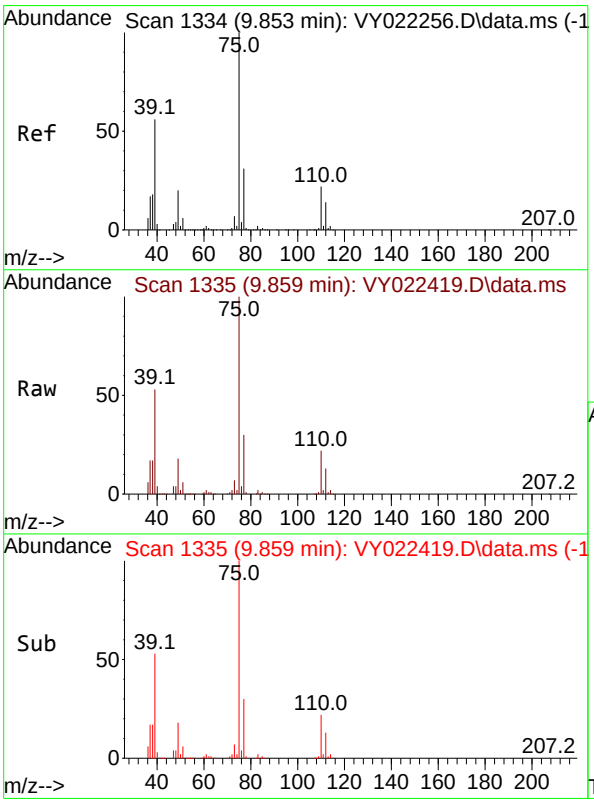
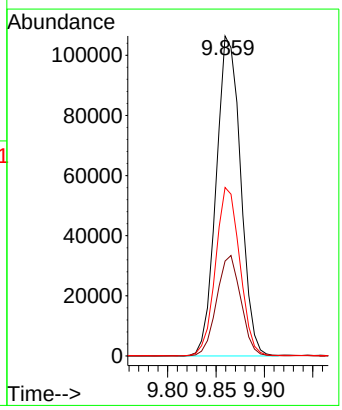
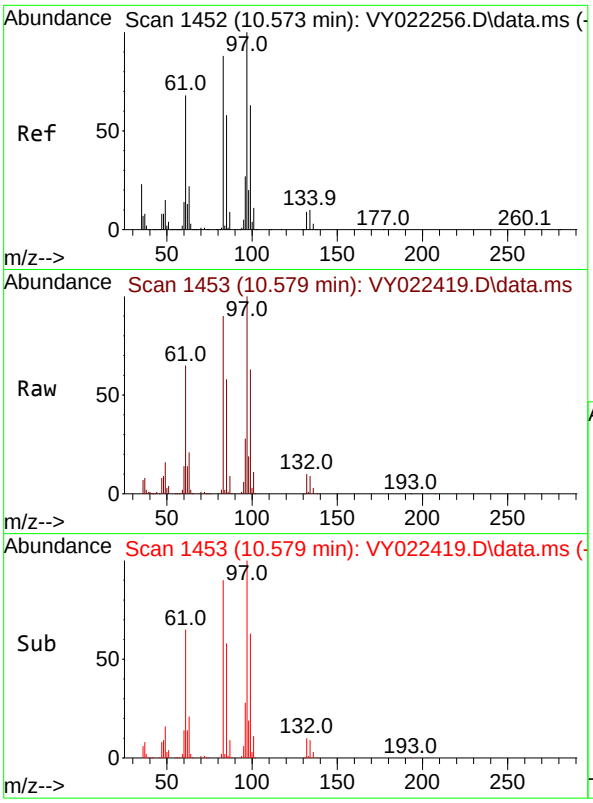


#54
cis-1,3-Dichloropropene
Concen: 51.692 ug/l
RT: 9.859 min Scan# 1335
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion: 75 Resp: 186733

Ion	Ratio	Lower	Upper
75	100		
77	29.6	25.1	37.7
39	52.6	44.5	66.7

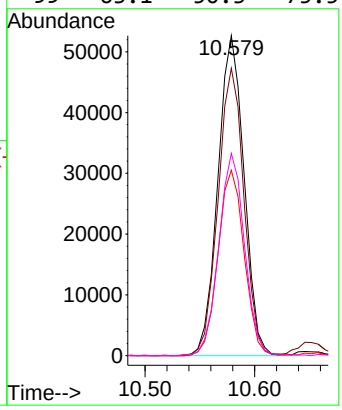




#55
1,1,2-Trichloroethane
Concen: 54.714 ug/l
RT: 10.579 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion: 97 Resp: 8725

Ion	Ratio	Lower	Upper
97	100		
83	89.8	70.3	105.5
85	58.0	46.2	69.4
99	63.1	50.3	75.5



Instrument :
MSVOA_Y
ClientSampleId :
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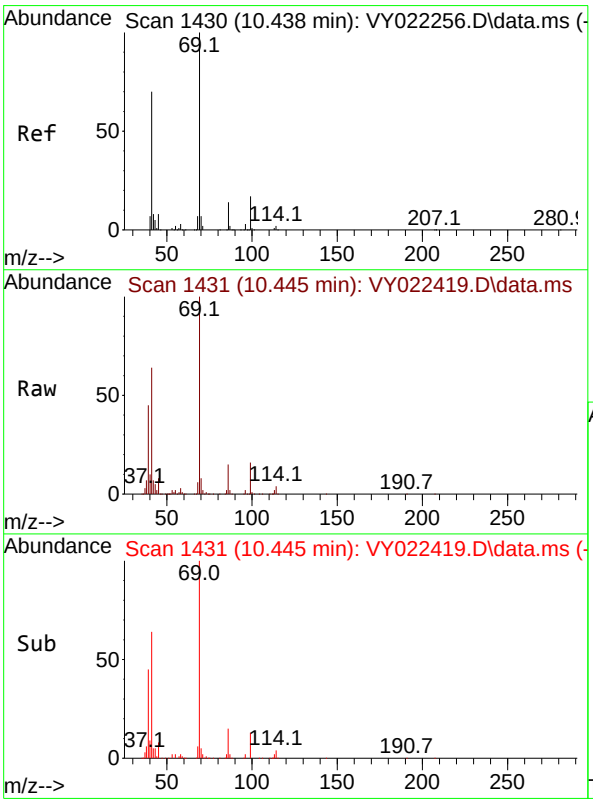
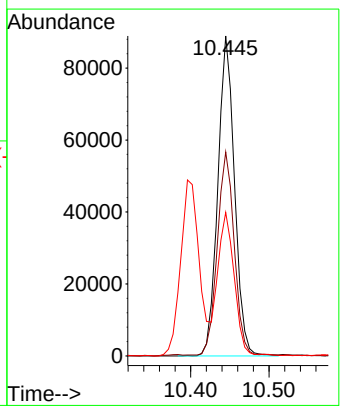
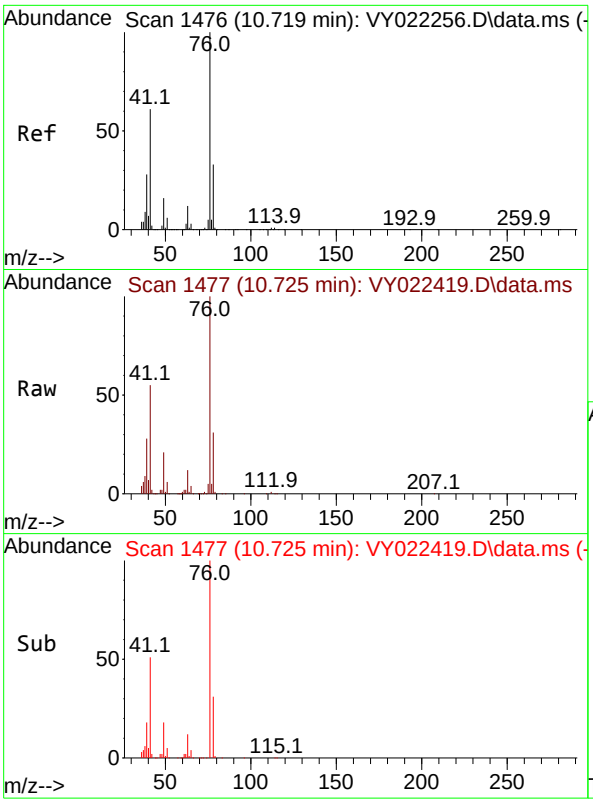


#56
Ethyl methacrylate
Concen: 53.108 ug/l
RT: 10.445 min Scan# 1431
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion: 69 Resp: 131927

Ion	Ratio	Lower	Upper
69	100		
41	64.5	56.5	84.7
39	43.3	37.1	55.7

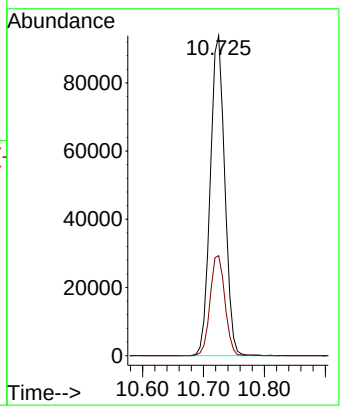




#57
1,3-Dichloropropane
Concen: 54.669 ug/l
RT: 10.725 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion: 76 Resp: 15490

Ion	Ratio	Lower	Upper
76	100		
78	32.0	25.8	38.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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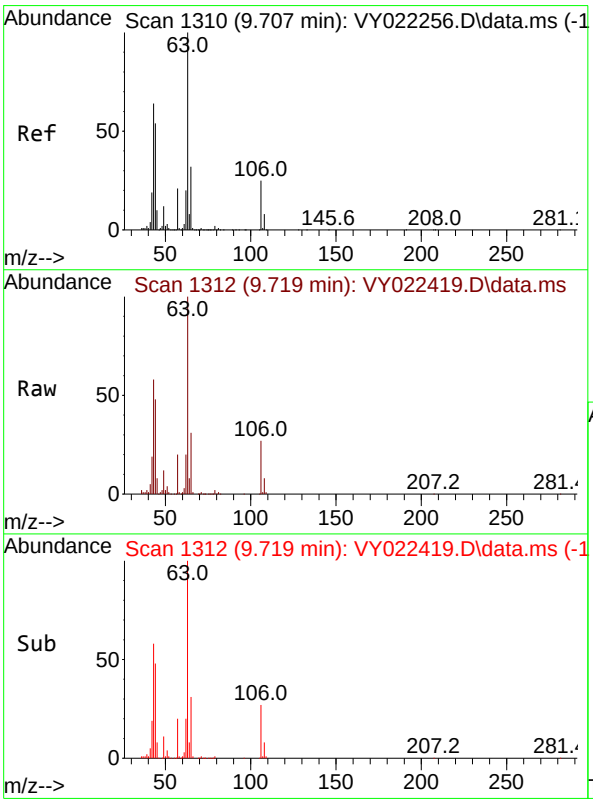
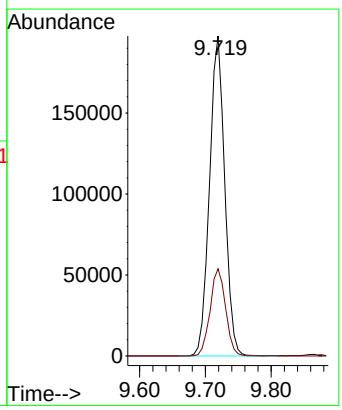
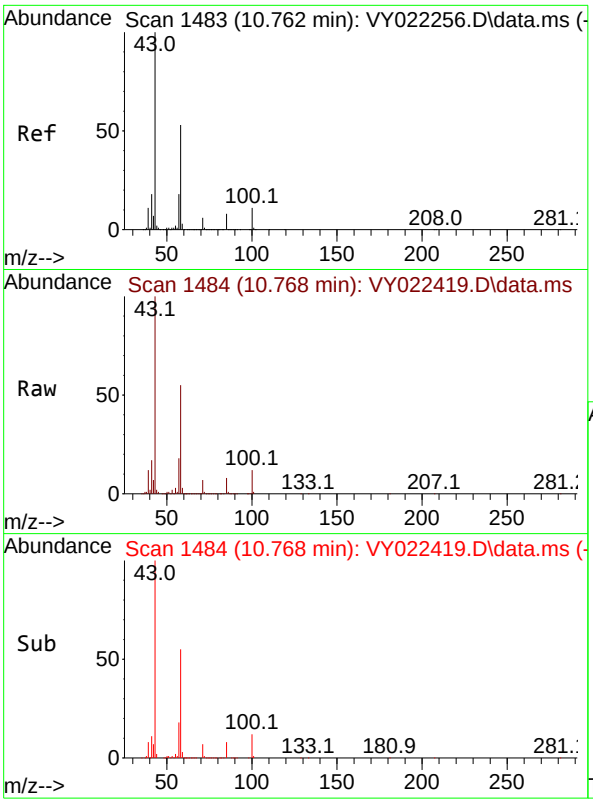


#58
2-Chloroethyl Vinyl ether
Concen: 285.424 ug/l
RT: 9.719 min Scan# 1312
Delta R.T. 0.012 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion: 63 Resp: 318247

Ion	Ratio	Lower	Upper
63	100		
106	27.6	21.0	31.4





#59
2-Hexanone
Concen: 247.514 ug/l
RT: 10.768 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion: 43 Resp: 27604

Ion	Ratio	Lower	Upper
43	100		
58	54.7	26.1	78.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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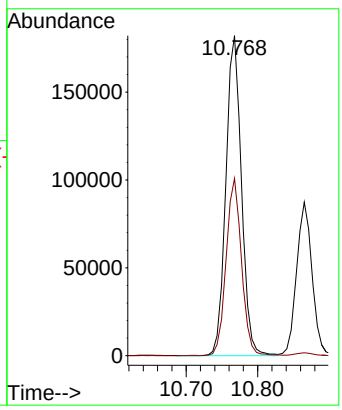
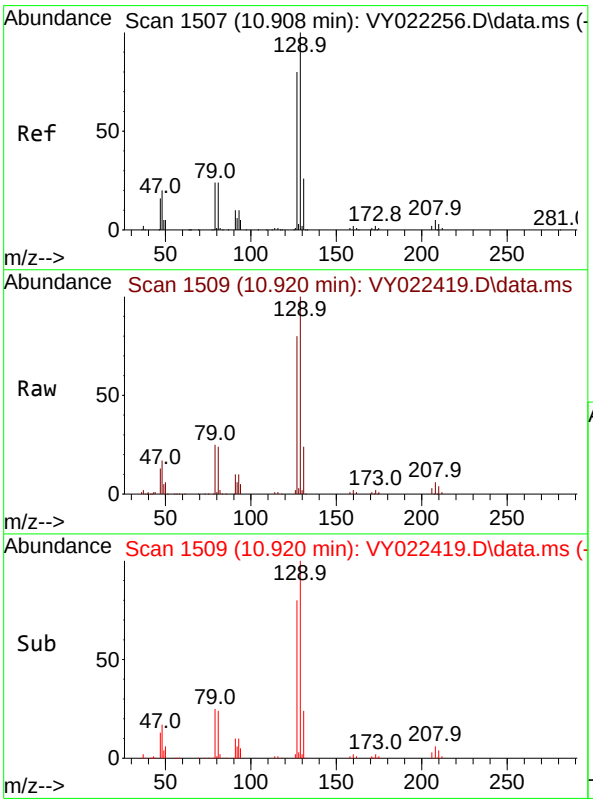
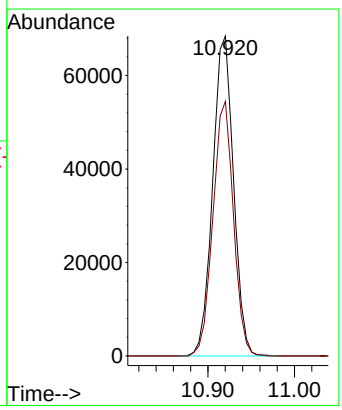


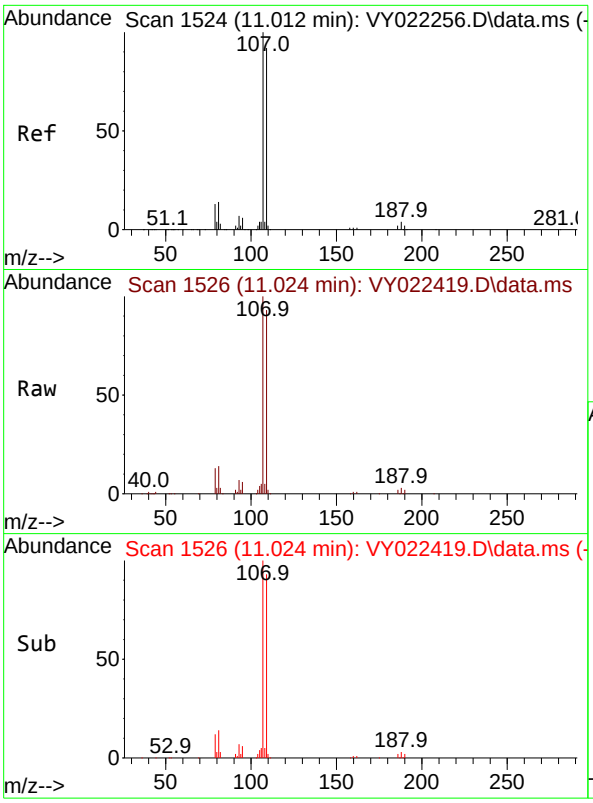


#60
Dibromochloromethane
Concen: 55.133 ug/l
RT: 10.920 min Scan# 1509
Delta R.T. 0.012 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion:129 Resp: 114120

Ion	Ratio	Lower	Upper
129	100		
127	78.7	38.6	115.7

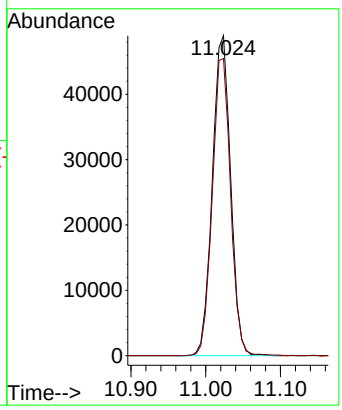




#61
1,2-Dibromoethane
Concen: 55.980 ug/l
RT: 11.024 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion:107 Resp: 8320

Ion	Ratio	Lower	Upper
107	100		
109	92.9	74.6	111.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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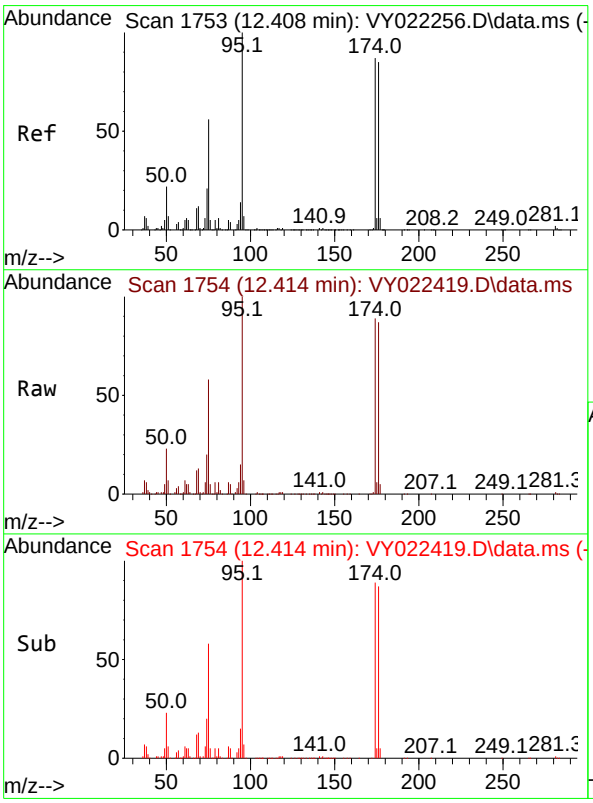
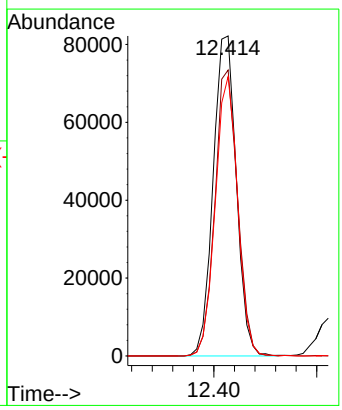
Reviewed By :Mahesh Dadoda 05/27/2025
Supervised By :Semsettin Yesilyurt 05/27/2025

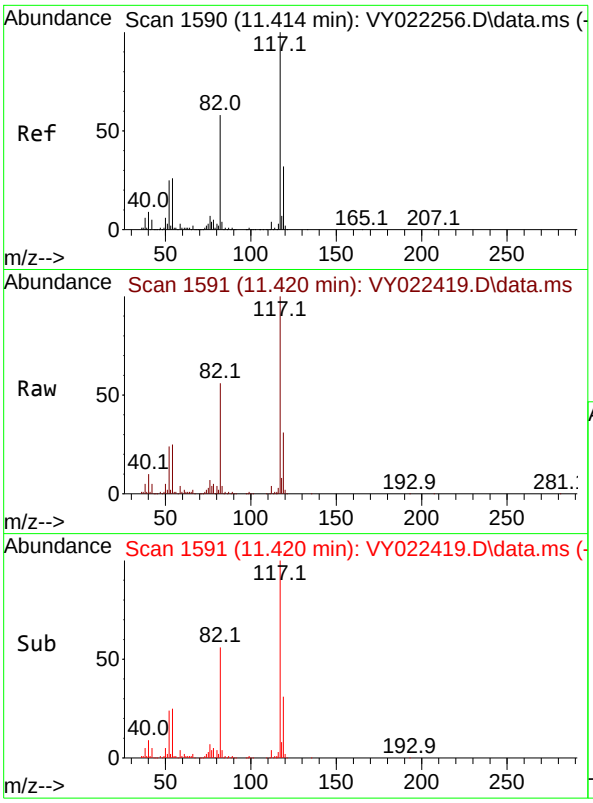


#62
4-Bromofluorobenzene
Concen: 50.386 ug/l
RT: 12.414 min Scan# 1754
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion: 95 Resp: 128293

Ion	Ratio	Lower	Upper
95	100		
174	87.6	0.0	166.8
176	84.5	0.0	160.8

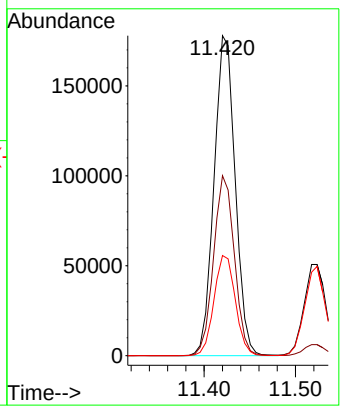




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion:117 Resp: 28635

Ion	Ratio	Lower	Upper
117	100		
82	56.2	46.6	70.0
119	31.3	25.8	38.6



Instrument :
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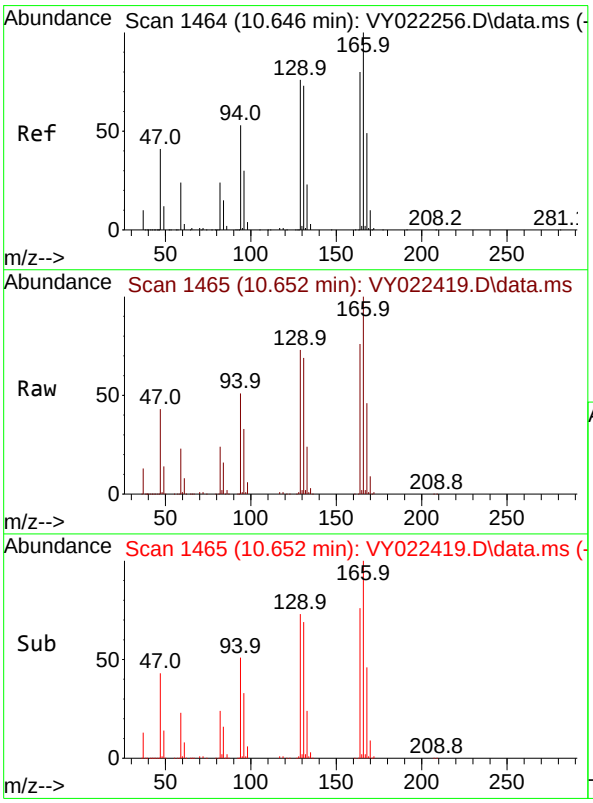
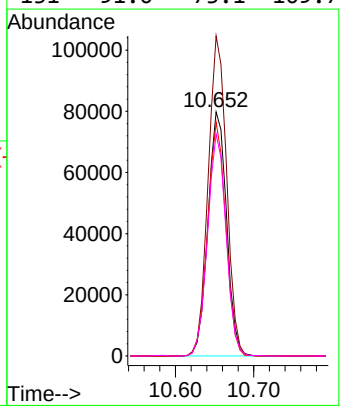
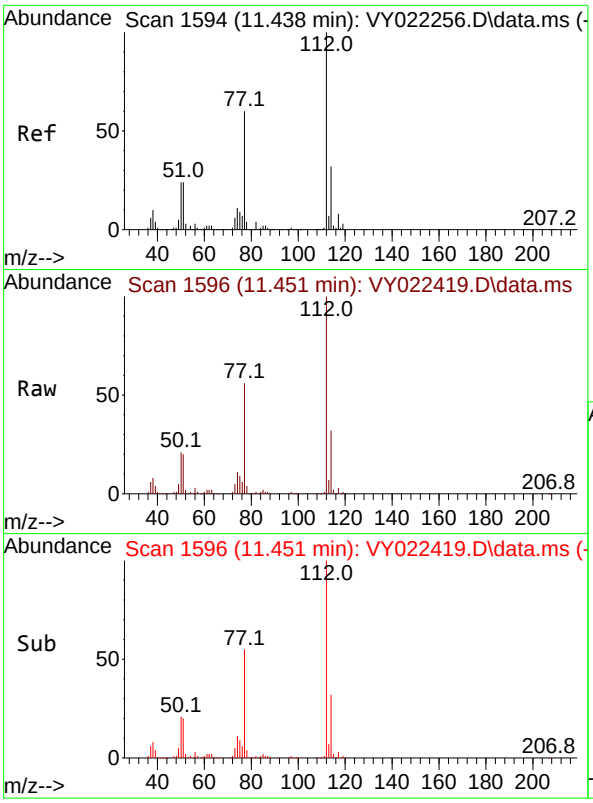


#64
Tetrachloroethene
Concen: 49.735 ug/l
RT: 10.652 min Scan# 1465
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion:164 Resp: 131639

Ion	Ratio	Lower	Upper
164	100		
166	131.2	100.4	150.6
129	95.7	76.4	114.6
131	91.0	73.1	109.7

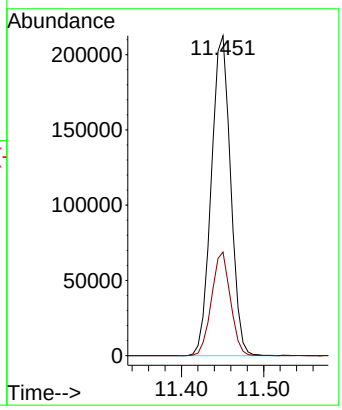




#65
Chlorobenzene
Concen: 53.600 ug/l
RT: 11.451 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion:112 Resp: 34627

Ion	Ratio	Lower	Upper
112	100		
114	32.4	25.8	38.6



Instrument :
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ClientSampleId :
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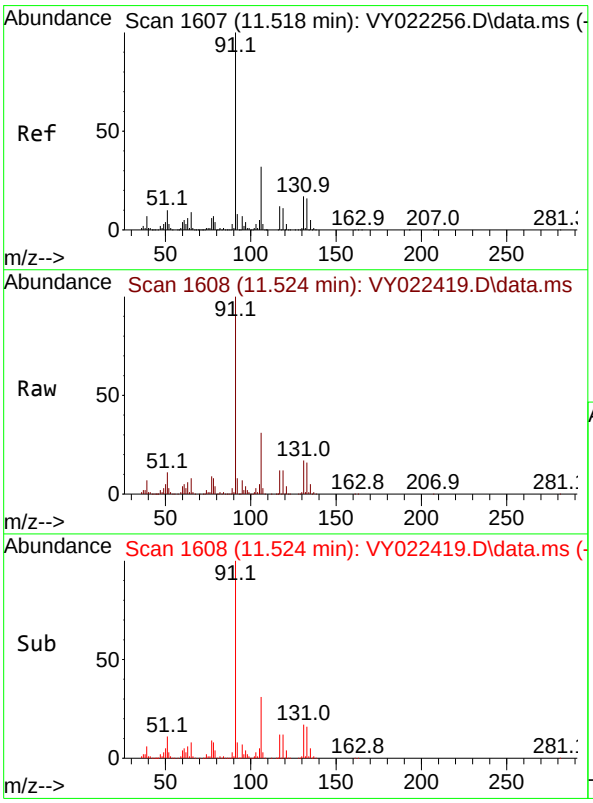
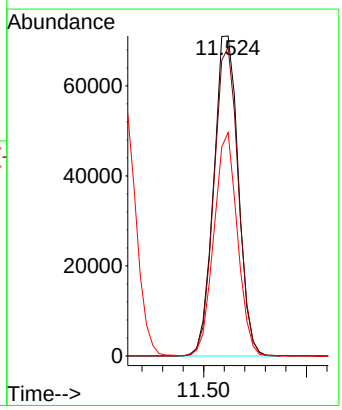
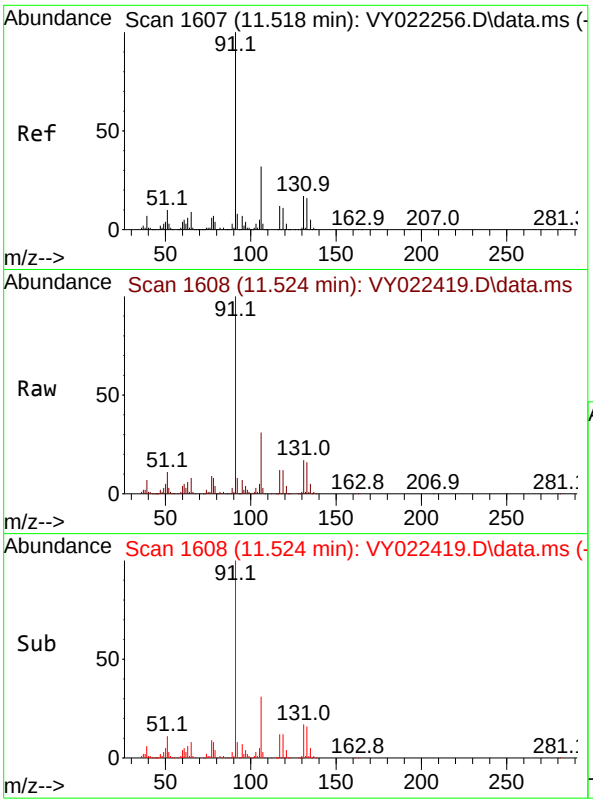


#66
1,1,1,2-Tetrachloroethane
Concen: 53.225 ug/l
RT: 11.524 min Scan# 1608
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion:131 Resp: 118210

Ion	Ratio	Lower	Upper
131	100		
133	95.5	47.3	141.9
119	66.5	33.1	99.2

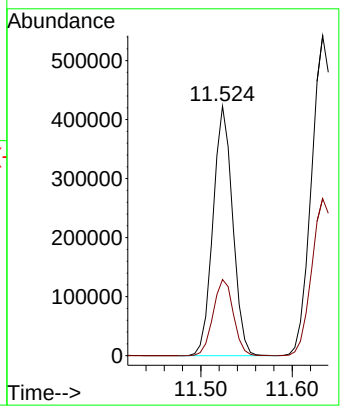




#67
Ethyl Benzene
Concen: 52.133 ug/l
RT: 11.524 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion: 91 Resp: 63075

Ion	Ratio	Lower	Upper
91	100		
106	30.5	25.4	38.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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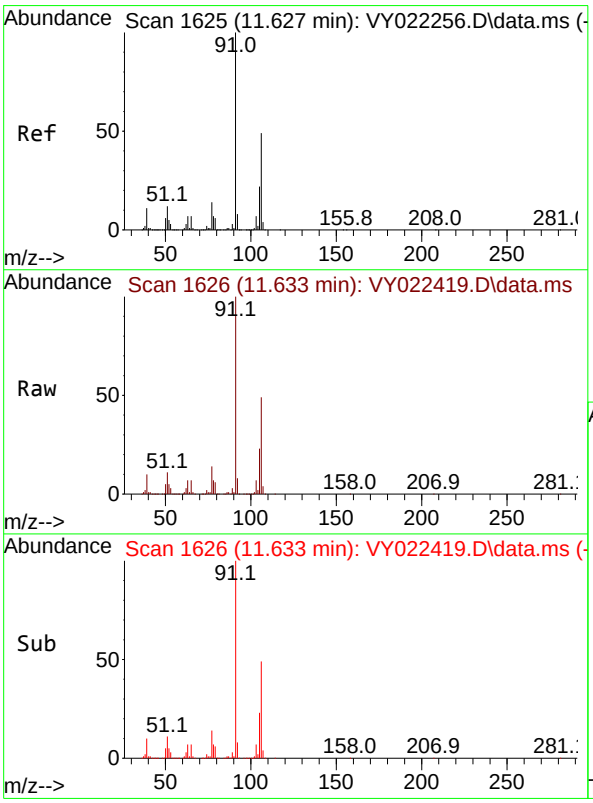
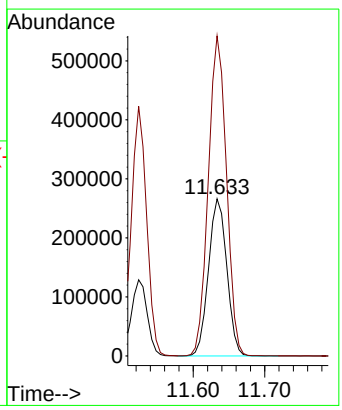
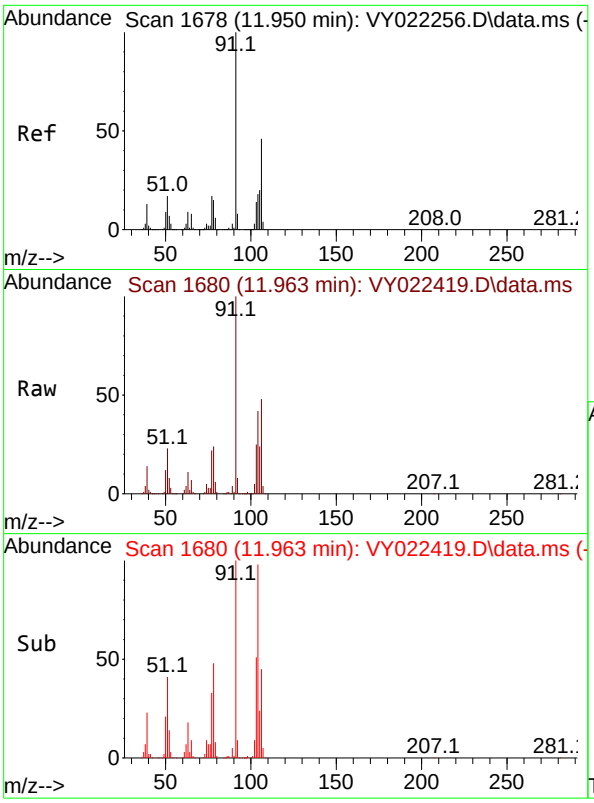


#68
m/p-Xylenes
Concen: 103.825 ug/l
RT: 11.633 min Scan# 1626
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion:106 Resp: 473349

Ion	Ratio	Lower	Upper
106	100		
91	202.2	163.0	244.4

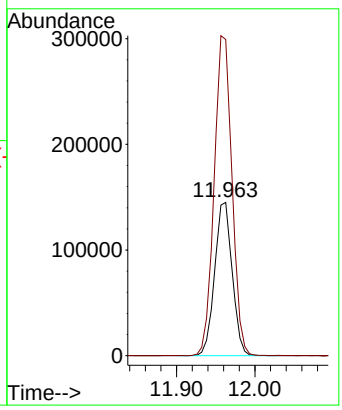




#69
o-Xylene
Concen: 52.372 ug/l
RT: 11.963 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion:106 Resp: 22590

Ion	Ratio	Lower	Upper
106	100		
91	211.8	108.3	324.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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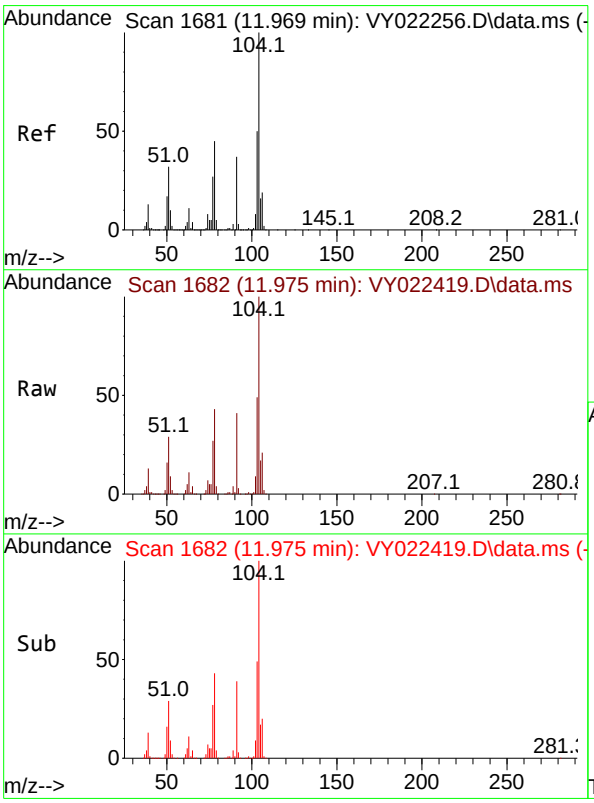
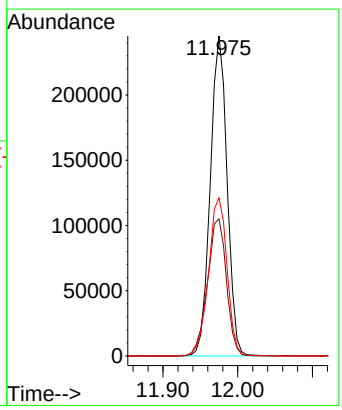
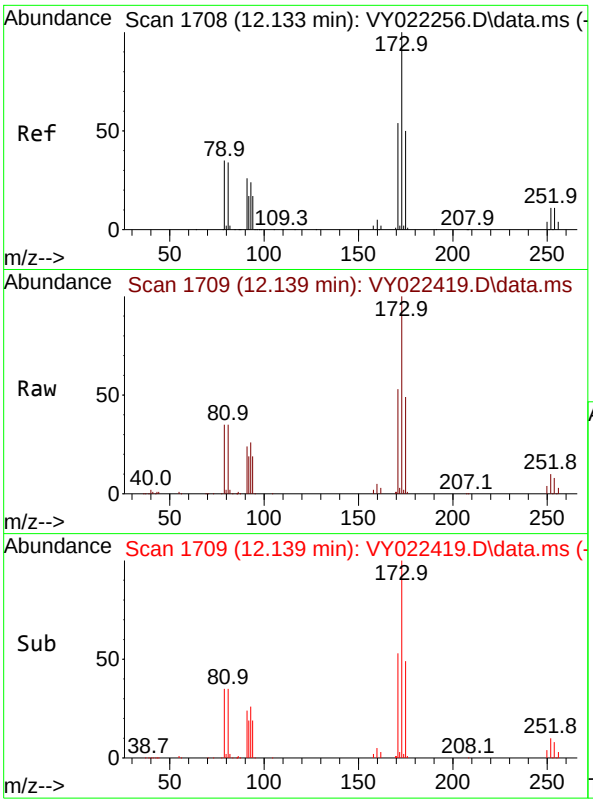


#70
Styrene
Concen: 52.878 ug/l
RT: 11.975 min Scan# 1682
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion:104 Resp: 384747

Ion	Ratio	Lower	Upper
104	100		
78	48.4	40.9	61.3
103	54.4	43.7	65.5

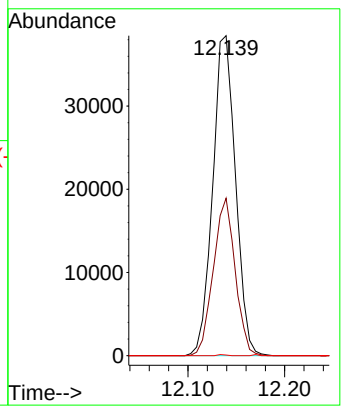




#71
Bromoform
Concen: 52.537 ug/l
RT: 12.139 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion:173 Resp: 6298

Ion	Ratio	Lower	Upper
173	100		
175	47.1	24.7	74.1
254	0.1	0.0	0.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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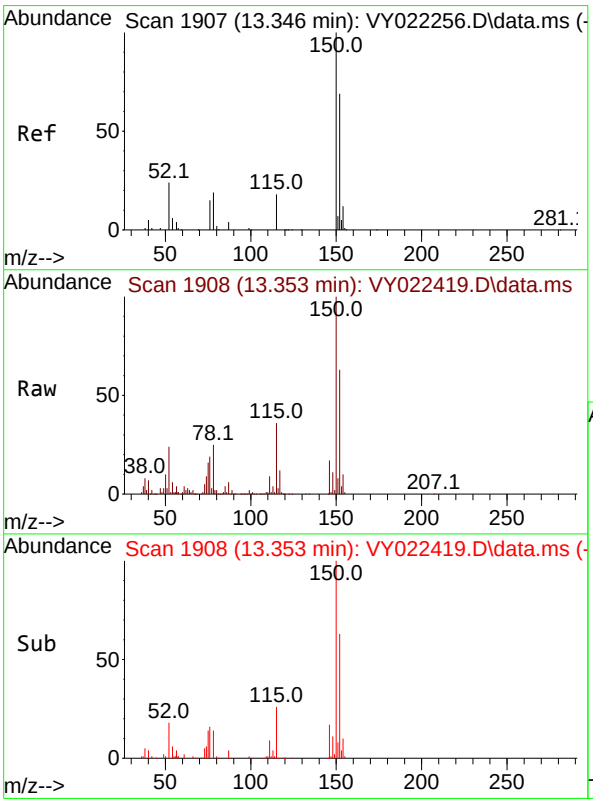
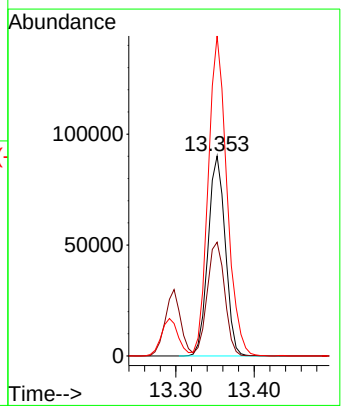
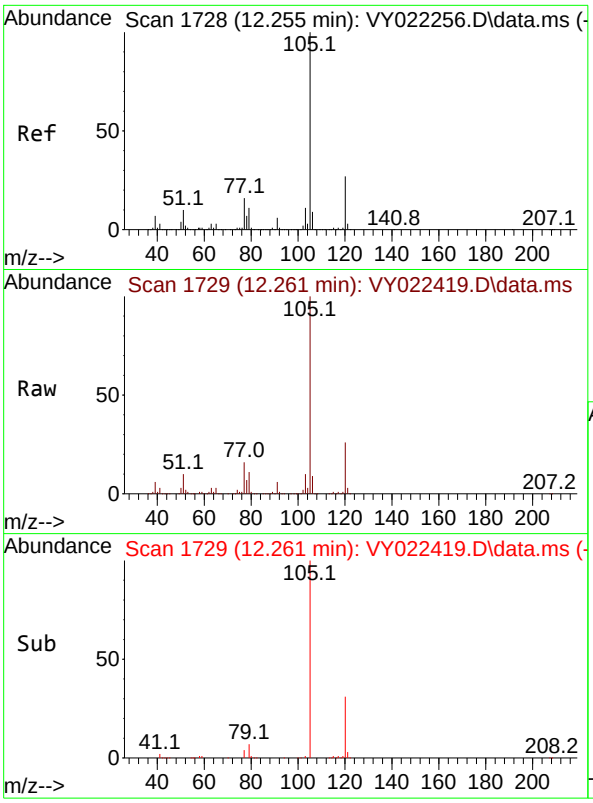


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.353 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion:152 Resp: 137202

Ion	Ratio	Lower	Upper
152	100		
115	58.0	29.4	88.2
150	174.5	0.0	353.8

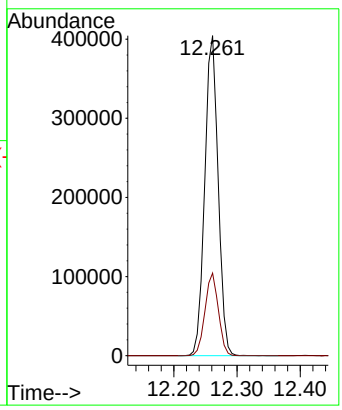




#73
Isopropylbenzene
Concen: 52.375 ug/l
RT: 12.261 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion:105 Resp: 59532

Ion	Ratio	Lower	Upper
105	100		
120	25.8	13.2	39.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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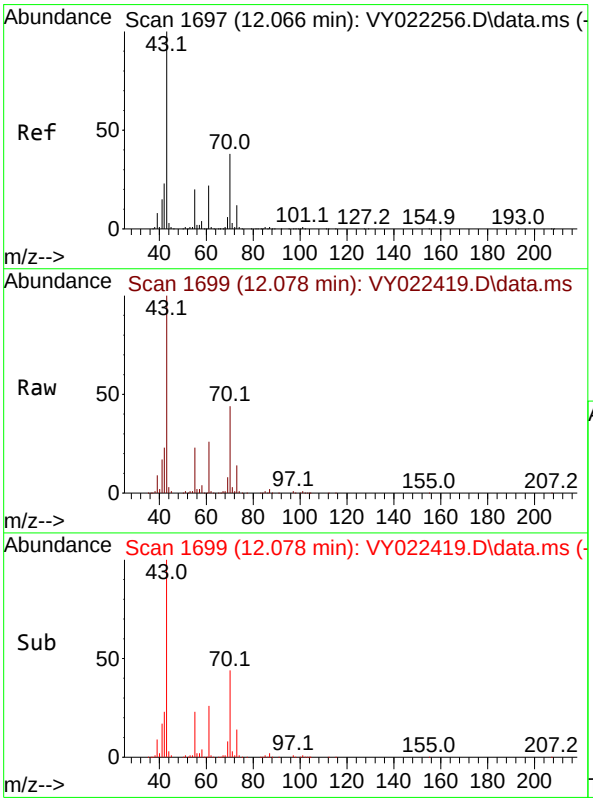
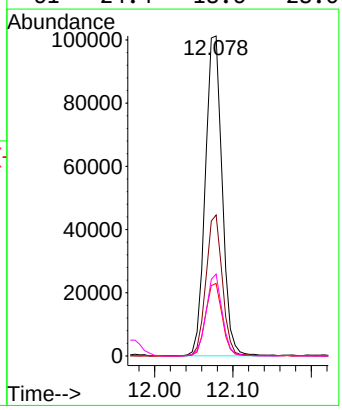
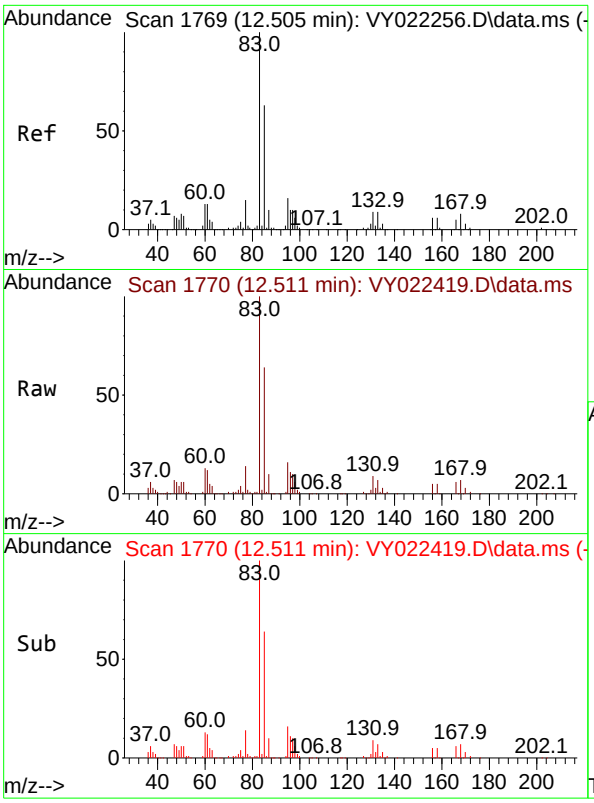


#74
N-amyl acetate
Concen: 46.439 ug/l
RT: 12.078 min Scan# 1699
Delta R.T. 0.012 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion: 43 Resp: 150966

Ion	Ratio	Lower	Upper
43	100		
70	42.9	31.4	47.0
55	22.5	17.0	25.6
61	24.4	18.6	28.0

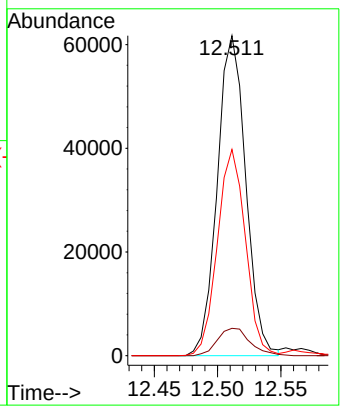




#75
1,1,2,2-Tetrachloroethane
Concen: 55.360 ug/l
RT: 12.511 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion: 83 Resp: 9677

Ion	Ratio	Lower	Upper
83	100		
131	9.8	4.9	14.7
85	63.3	32.0	96.0



Instrument :
MSVOA_Y
ClientSampleId :
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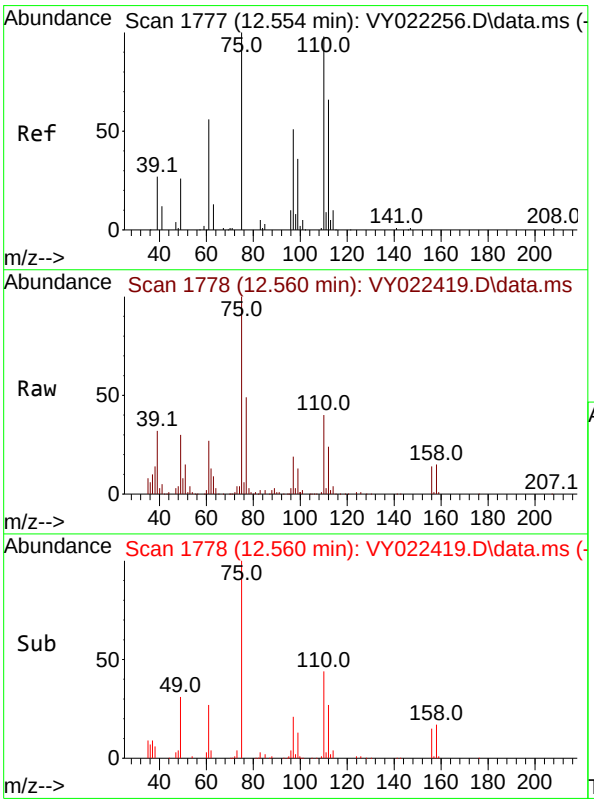
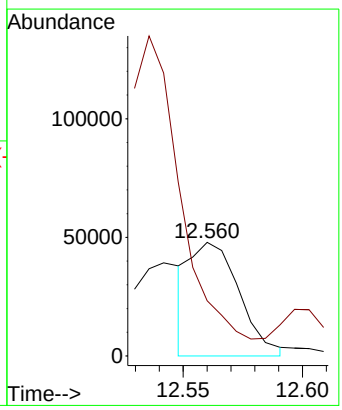
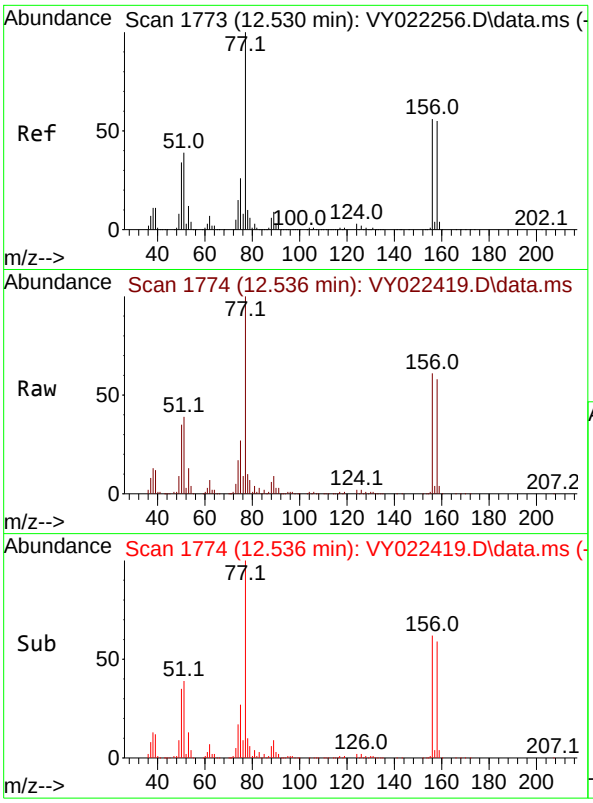


#76
1,2,3-Trichloropropane
Concen: 49.574 ug/l m
RT: 12.560 min Scan# 1778
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion: 75 Resp: 68908

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

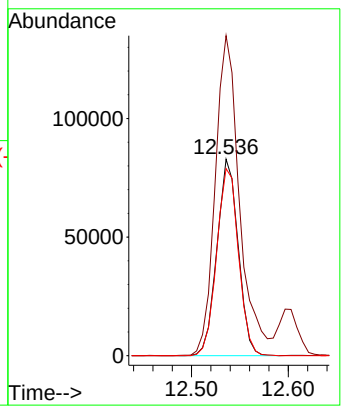




#77
Bromobenzene
Concen: 52.120 ug/l
RT: 12.536 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion:156 Resp: 12652

Ion	Ratio	Lower	Upper
156	100		
77	184.9	94.5	283.6
158	97.7	48.4	145.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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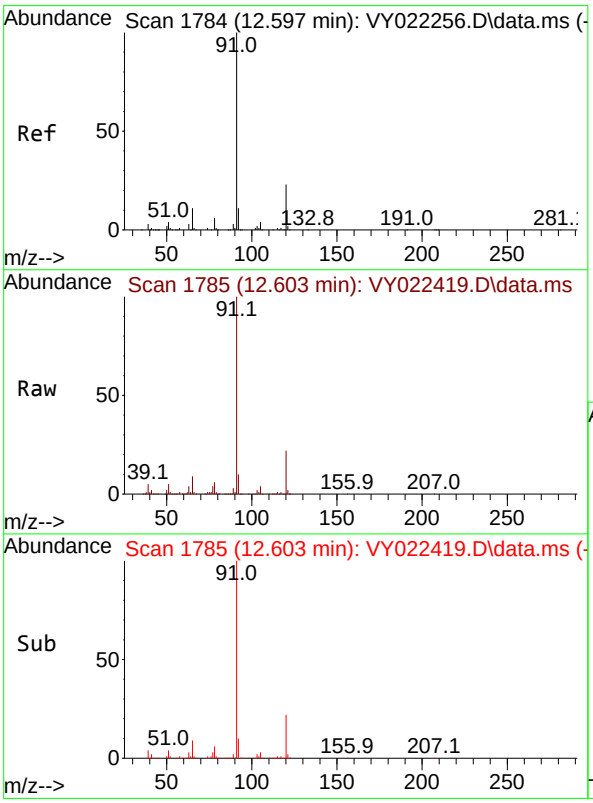
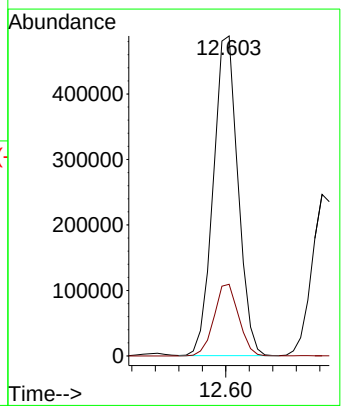
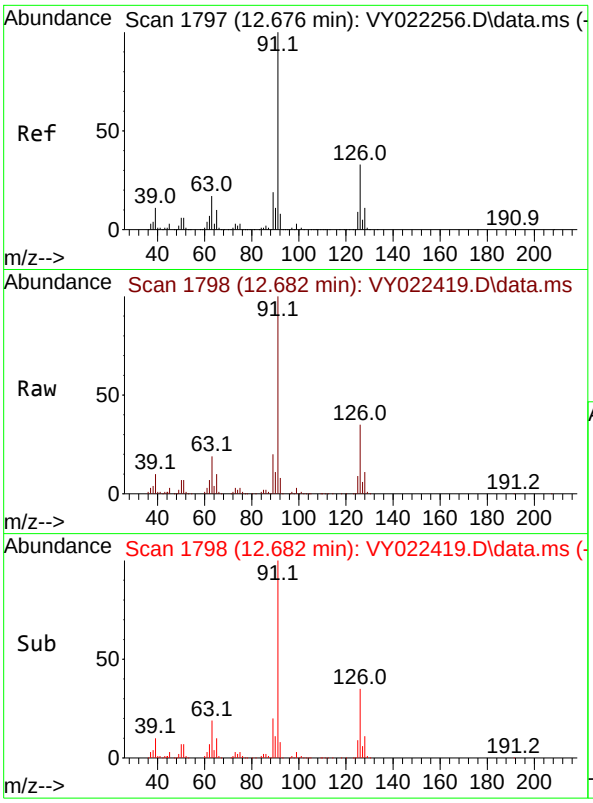


#78
n-propylbenzene
Concen: 52.044 ug/l
RT: 12.603 min Scan# 1785
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion: 91 Resp: 713535

Ion	Ratio	Lower	Upper
91	100		
120	22.4	11.1	33.3

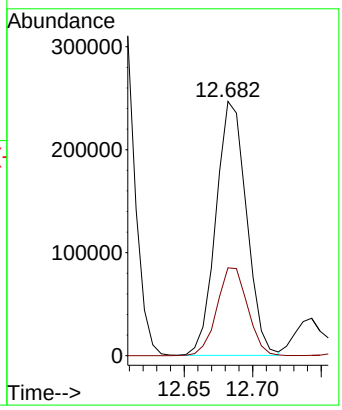




#79
2-Chlorotoluene
Concen: 50.777 ug/l
RT: 12.682 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion: 91 Resp: 38256

Ion	Ratio	Lower	Upper
91	100		
126	34.8	16.8	50.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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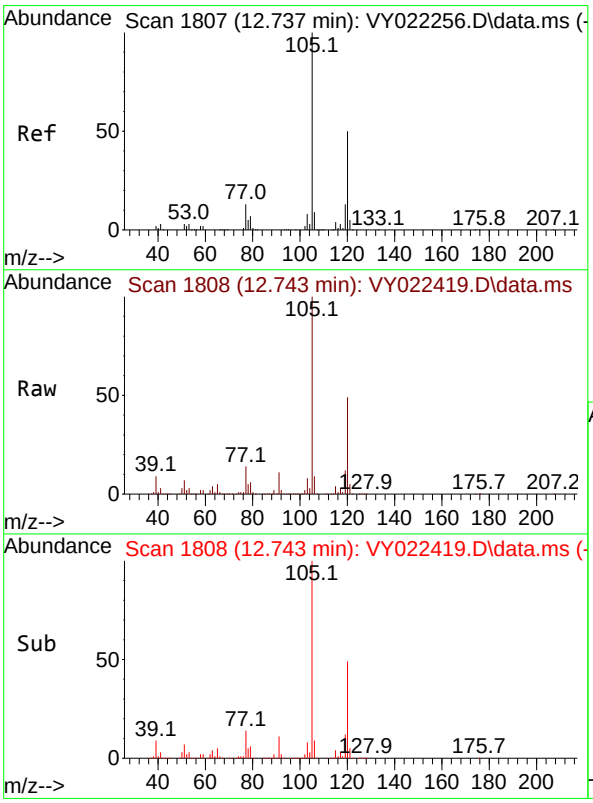
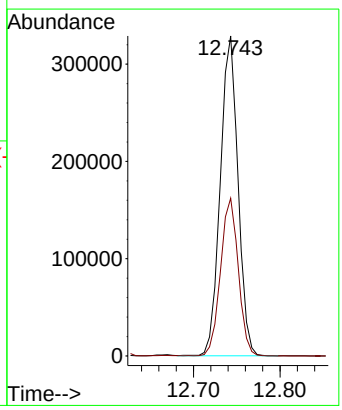
Reviewed By :Mahesh Dadoda 05/27/2025
Supervised By :Semsettin Yesilyurt 05/27/2025

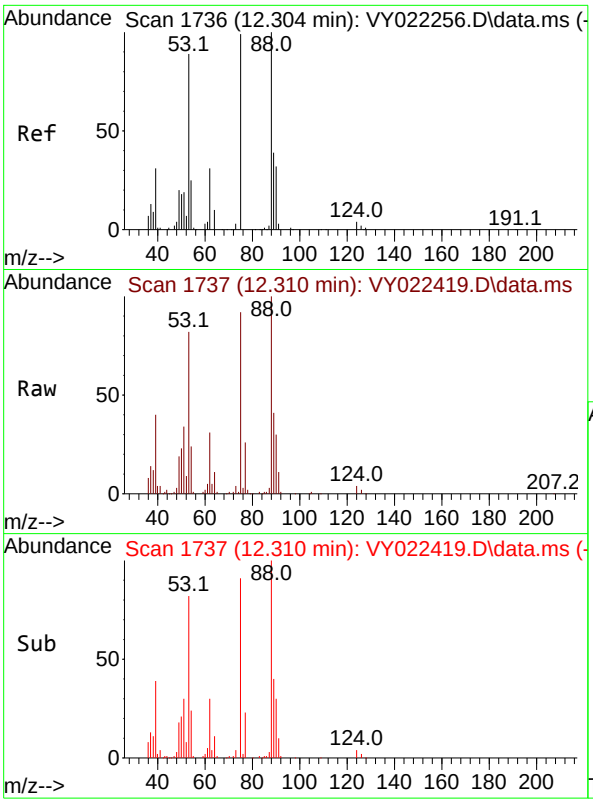


#80
1,3,5-Trimethylbenzene
Concen: 50.822 ug/l
RT: 12.743 min Scan# 1808
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion:105 Resp: 466319

Ion	Ratio	Lower	Upper
105	100		
120	49.5	24.2	72.6





#81
trans-1,4-Dichloro-2-butene
Concen: 44.849 ug/l
RT: 12.310 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion: 75 Resp: 3077

Ion	Ratio	Lower	Upper
75	100		
53	95.8	75.8	113.8
89	46.5	36.2	54.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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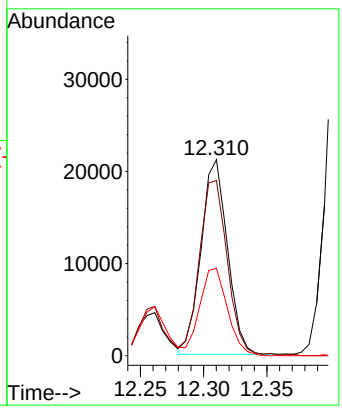
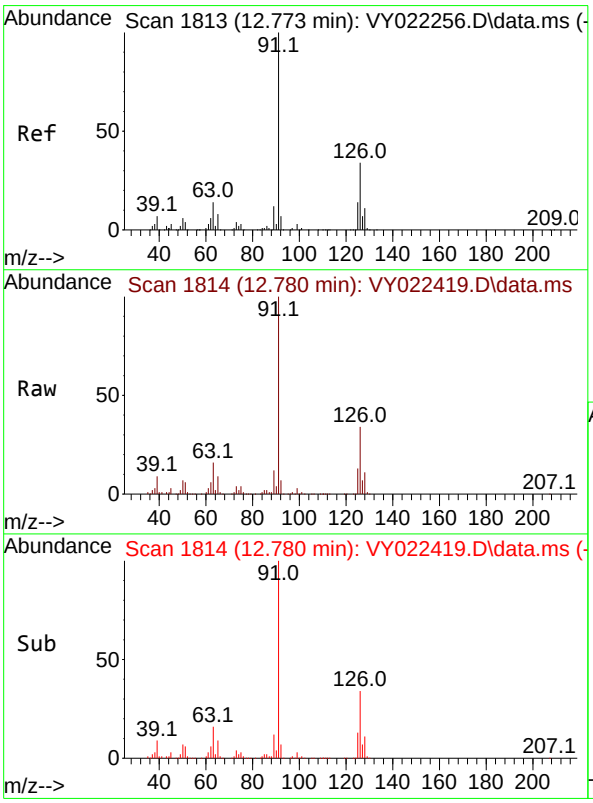
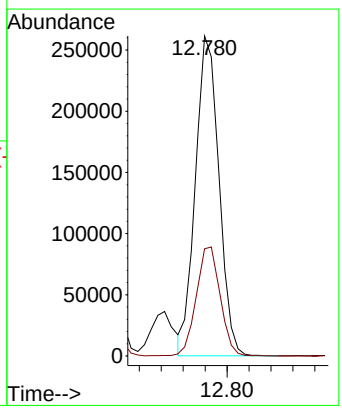


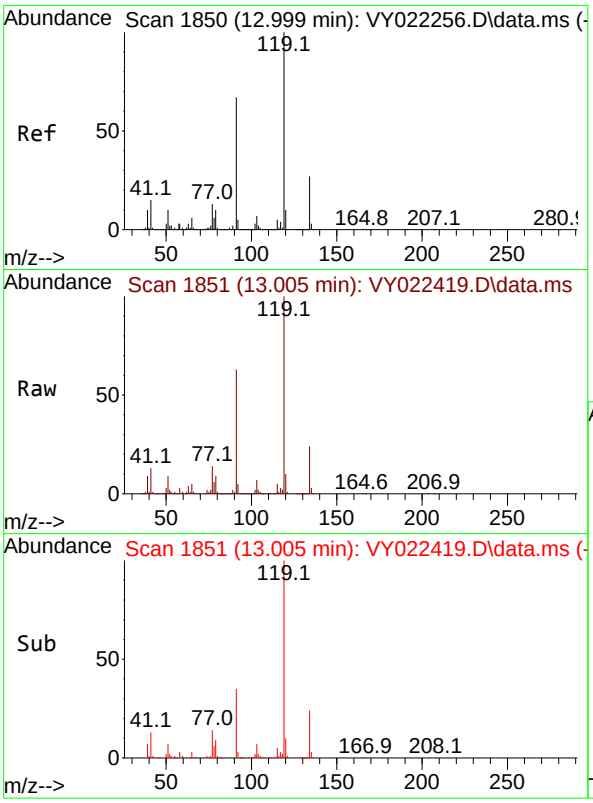


#82
4-Chlorotoluene
Concen: 50.304 ug/l
RT: 12.780 min Scan# 1814
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion: 91 Resp: 389835

Ion	Ratio	Lower	Upper
91	100		
126	34.7	16.8	50.4

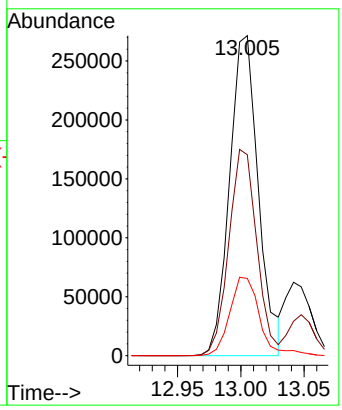




#83
tert-Butylbenzene
Concen: 52.759 ug/l
RT: 13.005 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion:119 Resp: 43025

Ion	Ratio	Lower	Upper
119	100		
91	62.8	32.8	98.3
134	25.5	12.9	38.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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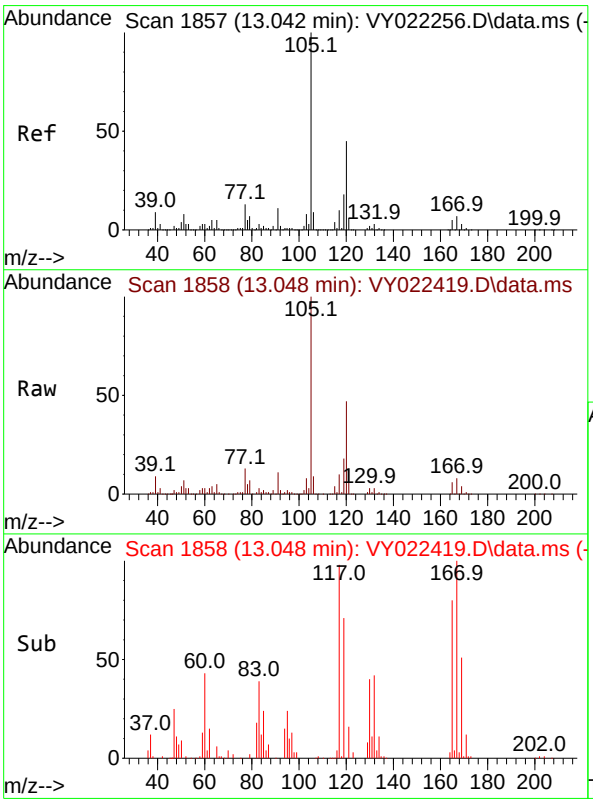
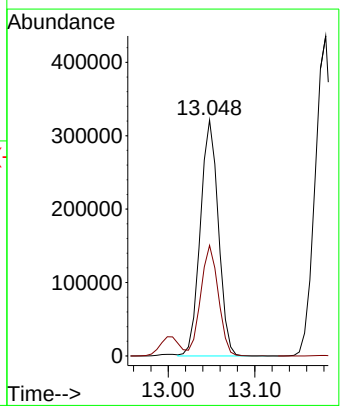
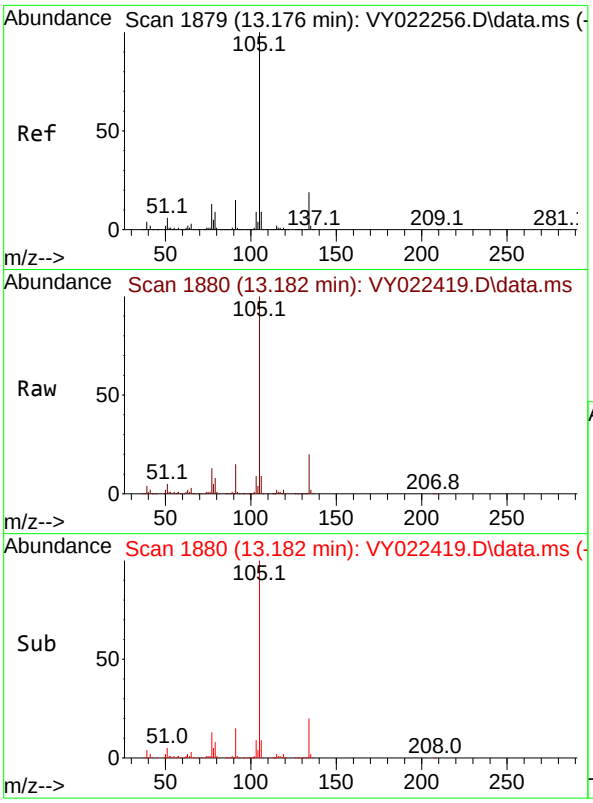


#84
1,2,4-Trimethylbenzene
Concen: 50.919 ug/l
RT: 13.048 min Scan# 1858
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion:105 Resp: 463785

Ion	Ratio	Lower	Upper
105	100		
120	45.6	22.3	66.9

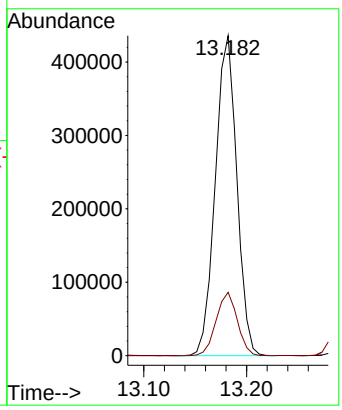




#85
sec-Butylbenzene
Concen: 52.239 ug/l
RT: 13.182 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion:105 Resp: 63239

Ion	Ratio	Lower	Upper
105	100		
134	19.5	9.8	29.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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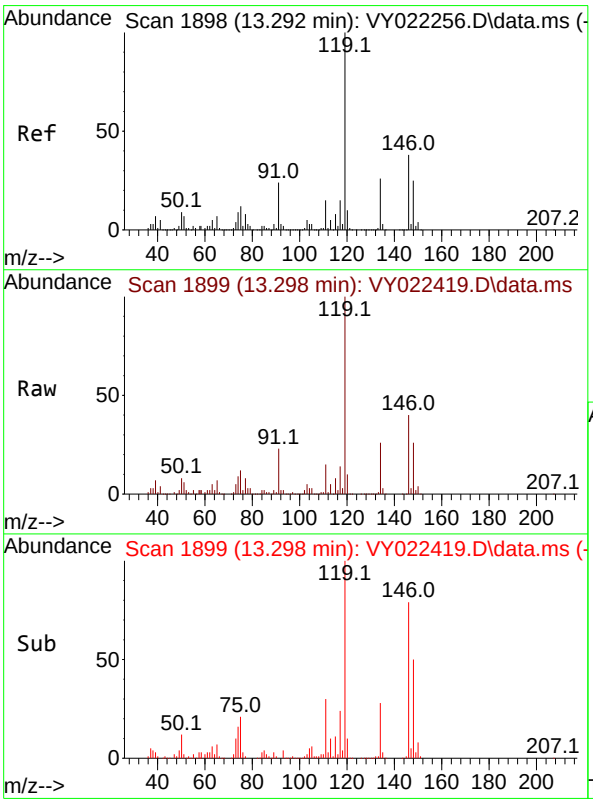
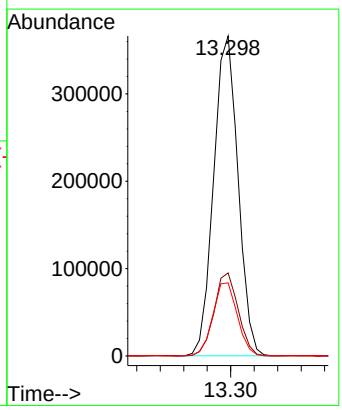
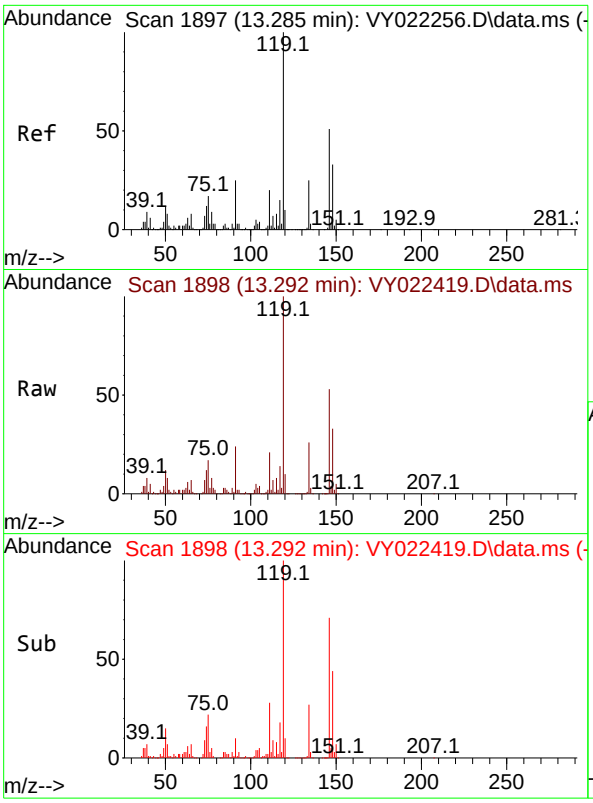


#86
p-Isopropyltoluene
Concen: 51.884 ug/l
RT: 13.298 min Scan# 1899
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion:119 Resp: 528265

Ion	Ratio	Lower	Upper
119	100		
134	25.8	12.9	38.6
91	23.1	12.1	36.3





#87
1,3-Dichlorobenzene
Concen: 52.302 ug/l
RT: 13.292 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion:146 Resp: 25920

Ion	Ratio	Lower	Upper
146	100		
111	39.2	19.9	59.7
148	63.0	31.9	95.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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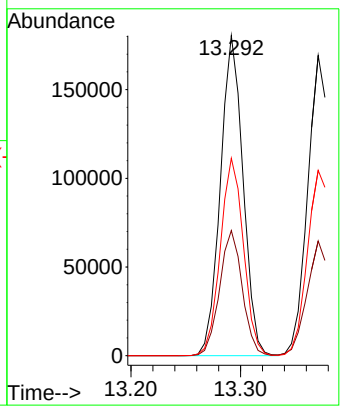
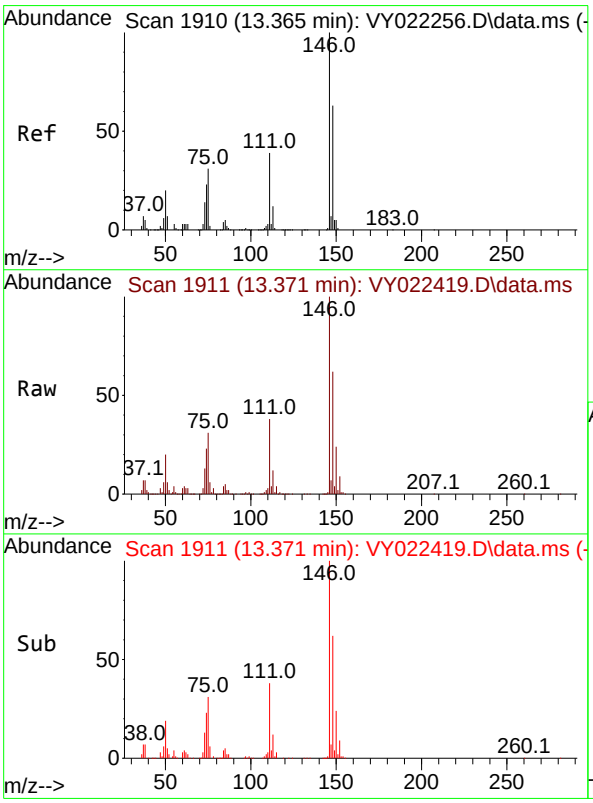
Supervised By :Semsettin Yesilyurt 05/27/2025

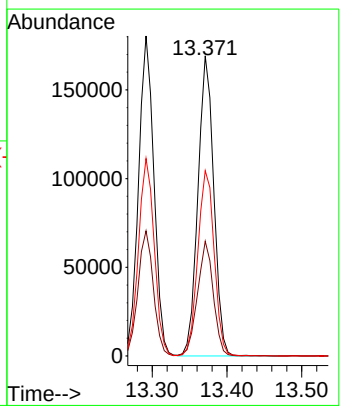


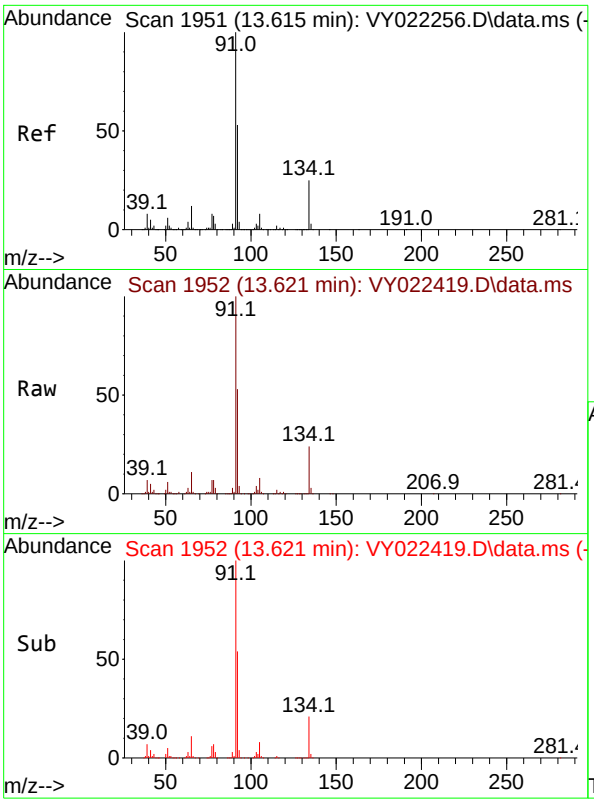


#88
1,4-Dichlorobenzene
Concen: 52.297 ug/l
RT: 13.371 min Scan# 1911
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion:146 Resp: 249302

Ion	Ratio	Lower	Upper
146	100		
111	38.1	20.0	59.9
148	63.9	32.1	96.5

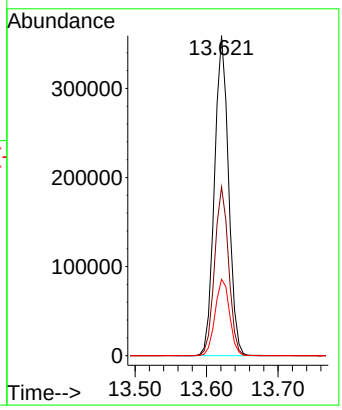




#89
n-Butylbenzene
Concen: 50.922 ug/l
RT: 13.621 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion: 91 Resp: 49049

Ion	Ratio	Lower	Upper
91	100		
92	52.4	26.3	78.9
134	24.6	12.4	37.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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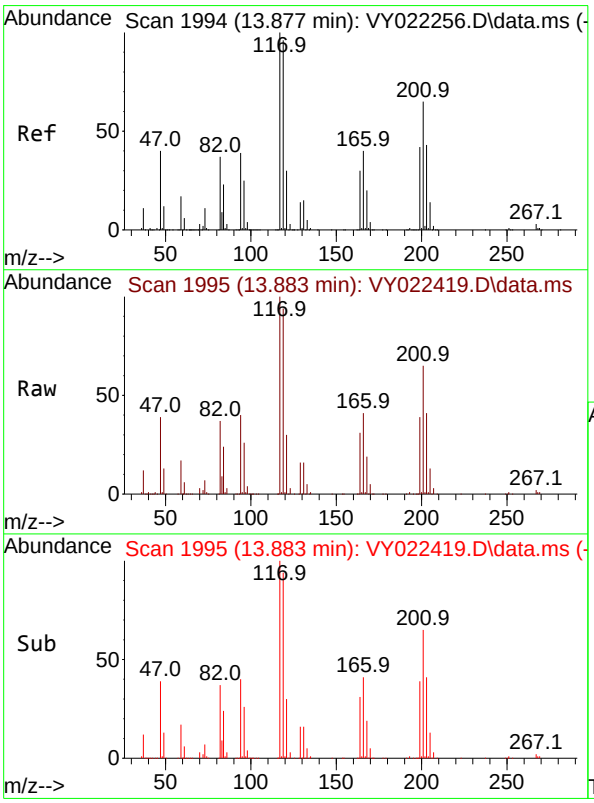
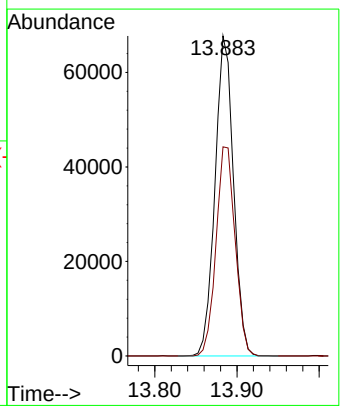
Reviewed By :Mahesh Dadoda 05/27/2025
Supervised By :Semsettin Yesilyurt 05/27/2025

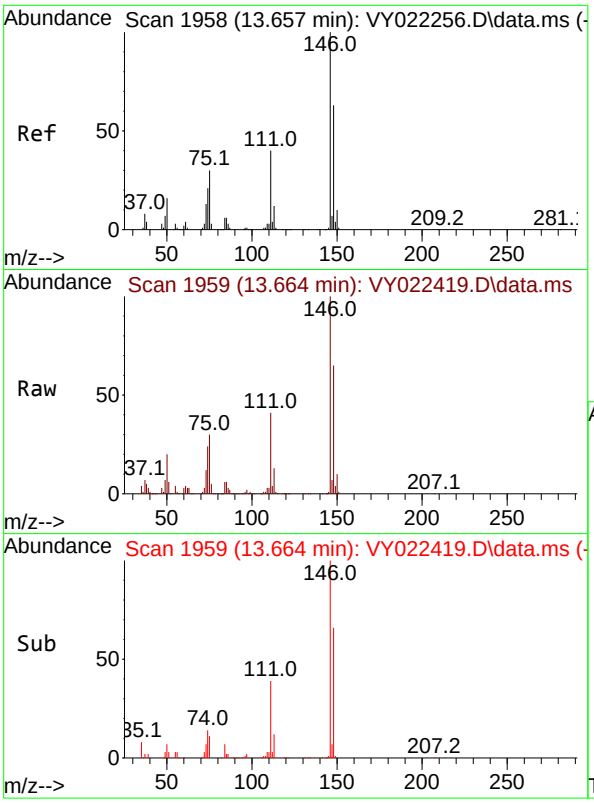


#90
Hexachloroethane
Concen: 51.508 ug/l
RT: 13.883 min Scan# 1995
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion:117 Resp: 105863

Ion	Ratio	Lower	Upper
117	100		
201	67.5	35.2	105.6

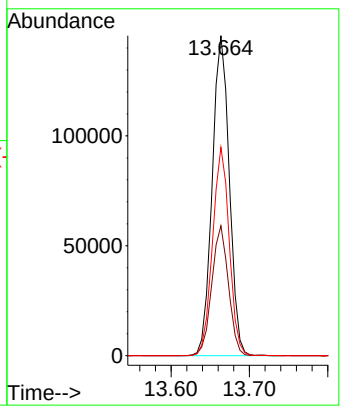




#91
1,2-Dichlorobenzene
Concen: 53.038 ug/l
RT: 13.664 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion:146 Resp: 22078

Ion	Ratio	Lower	Upper
146	100		
111	39.6	20.5	61.5
148	63.7	32.0	96.0



Instrument :
MSVOA_Y
ClientSampleId :
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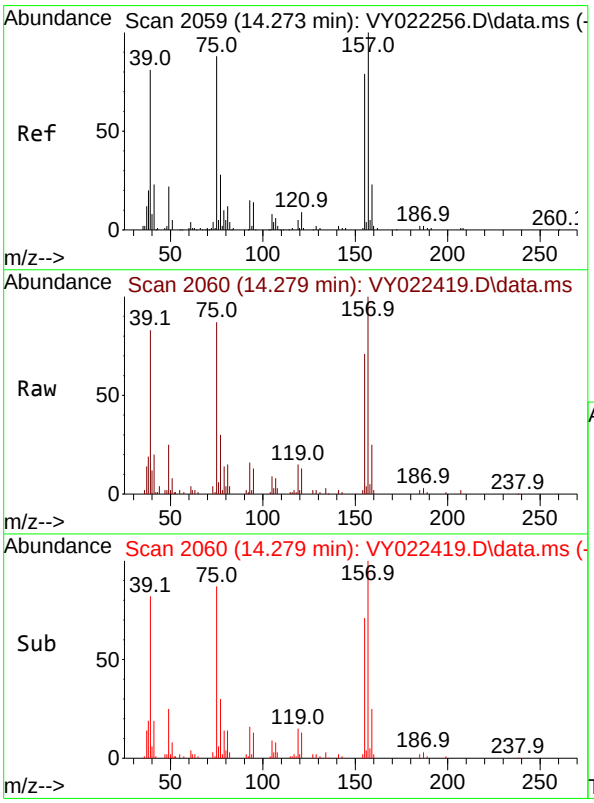
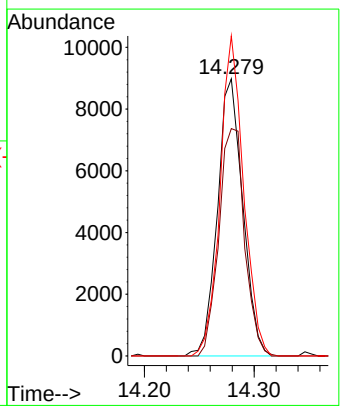
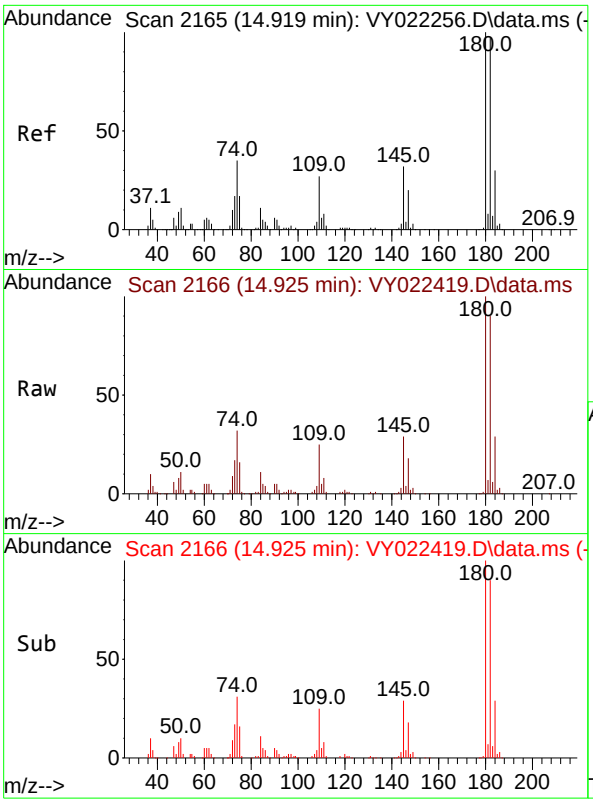


#92
1,2-Dibromo-3-Chloropropane
Concen: 51.067 ug/l
RT: 14.279 min Scan# 2060
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion: 75 Resp: 14395

Ion	Ratio	Lower	Upper
75	100		
155	83.6	43.4	130.1
157	107.5	54.6	163.9





#93
1,2,4-Trichlorobenzene
Concen: 51.582 ug/l
RT: 14.925 min Scan# 21
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion:180 Resp: 12403

Ion	Ratio	Lower	Upper
180	100		
182	91.9	48.0	144.0
145	28.4	15.0	45.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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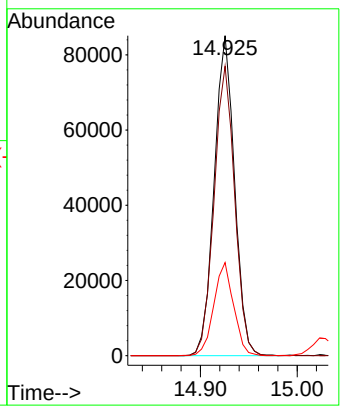
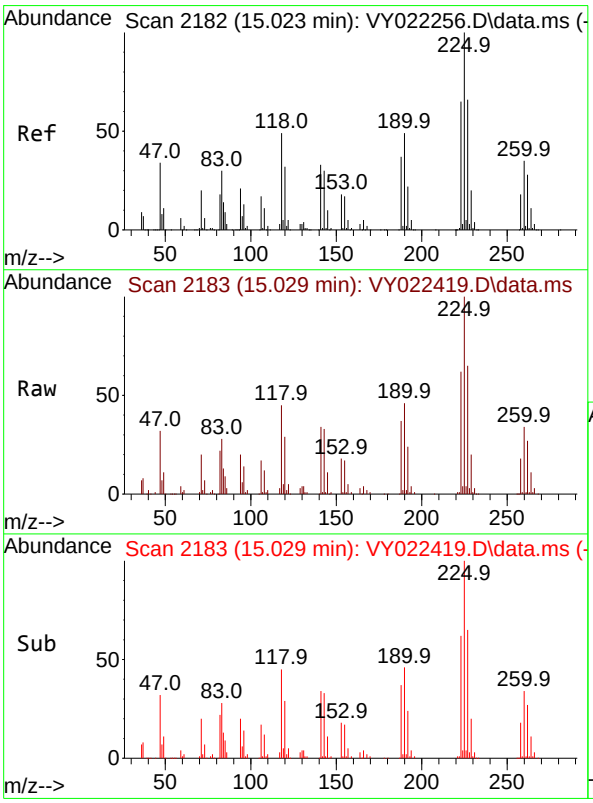
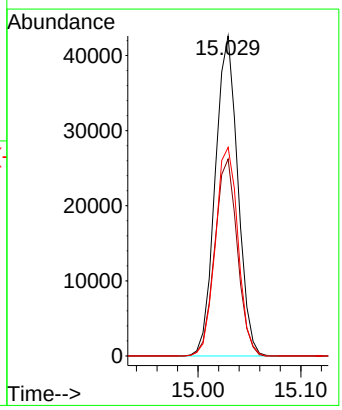


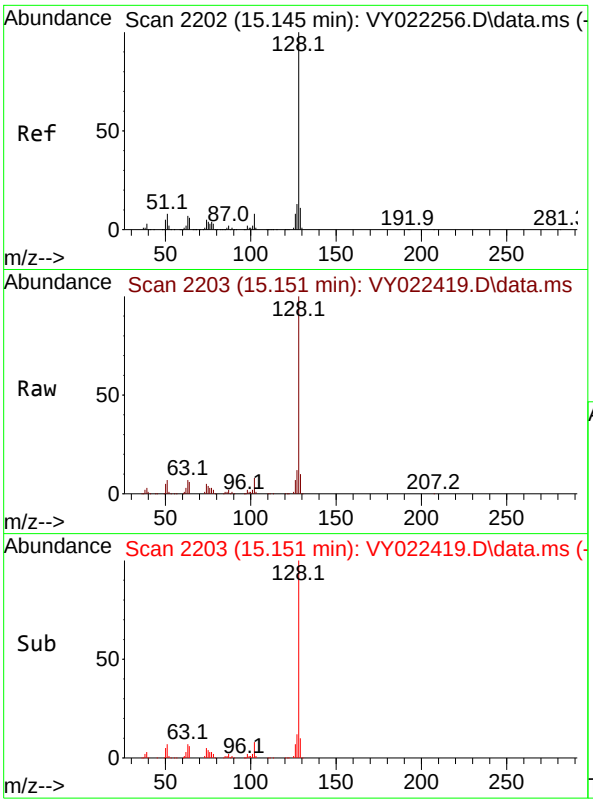


#94
Hexachlorobutadiene
Concen: 48.374 ug/l
RT: 15.029 min Scan# 2183
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion:225 Resp: 64868

Ion	Ratio	Lower	Upper
225	100		
223	61.6	31.5	94.5
227	65.6	32.1	96.3

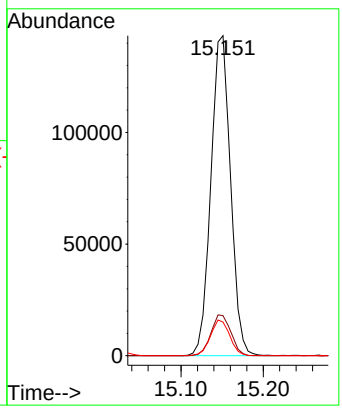




#95
Naphthalene
Concen: 52.156 ug/l
RT: 15.151 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion:128 Resp: 23799

Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.2	15.2
129	10.9	8.8	13.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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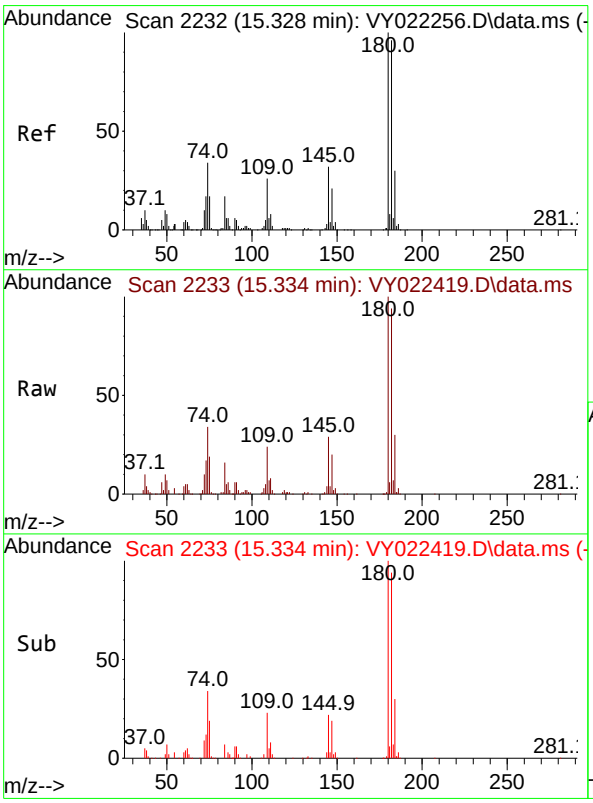
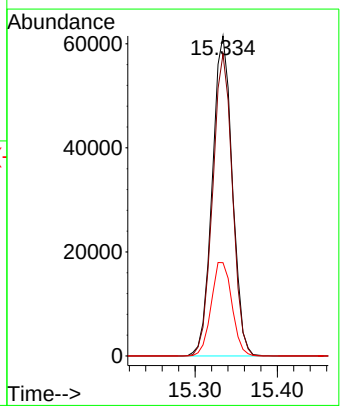


#96
1,2,3-Trichlorobenzene
Concen: 51.056 ug/l
RT: 15.334 min Scan# 2233
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 21:05

Tgt Ion:180 Resp: 104147

Ion	Ratio	Lower	Upper
180	100		
182	92.9	47.1	141.3
145	30.2	15.9	47.6



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Data File : VY022419.D
Acq On : 23 May 2025 21:05
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: May 24 01:10:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	71	0.01
2	T	Dichlorodifluoromethane	0.522	0.511	2.1	72	0.00
3	P	Chloromethane	1.097	1.286	-17.2	88	0.00
4	C	Vinyl Chloride	1.226	1.562	-27.4#	92	0.00
5	T	Bromomethane	0.998	1.467	-47.0#	119	0.00
6	T	Chloroethane	0.763	0.994	-30.3#	93	0.00
7	T	Trichlorofluoromethane	1.241	1.273	-2.6	75	0.01
8	T	Diethyl Ether	0.298	0.336	-12.8	81	0.01
9	T	1,1,2-Trichlorotrifluoroeth	0.539	0.593	-10.0	78	0.00
10	T	Methyl Iodide	0.624	0.742	-18.9	77	0.00
11	T	Tert butyl alcohol	0.042	0.042	0.0	77	0.02
12	CM	1,1-Dichloroethene	0.535	0.583	-9.0#	77	0.01
13	T	Acrolein	0.061	0.025	59.0#	31#	0.01
14	T	Allyl chloride	0.938	0.871	7.1	65	0.02
15	T	Acrylonitrile	0.123	0.135	-9.8	80	0.01
16	T	Acetone	0.102	0.097	4.9	74	0.01
17	T	Carbon Disulfide	1.744	1.796	-3.0	73	0.01
18	T	Methyl Acetate	0.323	0.354	-9.6	83	0.01
19	T	Methyl tert-butyl Ether	1.475	1.640	-11.2	80	0.01
20	T	Methylene Chloride	0.662	0.667	-0.8	79	0.01
21	T	trans-1,2-Dichloroethene	0.590	0.651	-10.3	78	0.02
22	T	Diisopropyl ether	1.980	2.014	-1.7	72	0.01
23	T	Vinyl Acetate	1.196	1.176	1.7	71	0.01
24	P	1,1-Dichloroethane	1.106	1.209	-9.3	77	0.01
25	T	2-Butanone	0.171	0.169	1.2	74	0.00
26	T	2,2-Dichloropropane	0.984	0.985	-0.1	71	0.01
27	T	cis-1,2-Dichloroethene	0.681	0.775	-13.8	80	0.01
28	T	Bromochloromethane	0.472	0.509	-7.8	77	0.01
29	T	Tetrahydrofuran	0.110	0.112	-1.8	75	0.01
30	C	Chloroform	1.061	1.200	-13.1#	79	0.01
31	T	Cyclohexane	1.105	1.054	4.6	71	0.00
32	T	1,1,1-Trichloroethane	0.974	1.067	-9.5	78	0.01
33	S	1,2-Dichloroethane-d4	0.546	0.600	-9.9	79	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	75	0.00
35	S	Dibromofluoromethane	0.298	0.336	-12.8	83	0.01
36	T	1,1-Dichloropropene	0.492	0.512	-4.1	76	0.00
37	T	Ethyl Acetate	0.237	0.234	1.3	75	0.00
38	T	Carbon Tetrachloride	0.509	0.536	-5.3	78	0.01
39	T	Methylcyclohexane	0.660	0.680	-3.0	76	0.00
40	TM	Benzene	1.457	1.575	-8.1	79	0.00
41	T	Methacrylonitrile	0.157	0.139	11.5	66	0.00
42	TM	1,2-Dichloroethane	0.394	0.422	-7.1	79	0.00
43	T	Isopropyl Acetate	0.516	0.504	2.3	73	0.01
44	TM	Trichloroethene	0.362	0.384	-6.1	77	0.00
45	C	1,2-Dichloropropane	0.351	0.373	-6.3#	78	0.01
46	T	Dibromomethane	0.189	0.209	-10.6	83	0.00
47	T	Bromodichloromethane	0.492	0.537	-9.1	79	0.01
48	T	Methyl methacrylate	0.241	0.230	4.6	72	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022419.D
Acq On : 23 May 2025 21:05
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: May 24 01:10:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.002	0.002	0.0	84	0.00
50	S	Toluene-d8	1.222	1.318	-7.9	80	0.01
51	T	4-Methyl-2-Pentanone	0.253	0.255	-0.8	75	0.00
52	CM	Toluene	0.923	0.978	-6.0#	78	0.00
53	T	t-1,3-Dichloropropene	0.480	0.486	-1.3	75	0.00
54	T	cis-1,3-Dichloropropene	0.550	0.568	-3.3	76	0.00
55	T	1,1,2-Trichloroethane	0.243	0.266	-9.5	82	0.00
56	T	Ethyl methacrylate	0.378	0.401	-6.1	79	0.00
57	T	1,3-Dichloropropane	0.431	0.471	-9.3	81	0.00
58	T	2-Chloroethyl Vinyl ether	0.170	0.194	-14.1	79	0.01
59	T	2-Hexanone	0.170	0.168	1.2	76	0.00
60	T	Dibromochloromethane	0.315	0.347	-10.2	80	0.01
61	T	1,2-Dibromoethane	0.226	0.253	-11.9	83	0.01
62	S	4-Bromofluorobenzene	0.387	0.390	-0.8	76	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	76	0.00
64	T	Tetrachloroethene	0.462	0.460	0.4	74	0.00
65	PM	Chlorobenzene	1.128	1.209	-7.2	79	0.01
66	T	1,1,1,2-Tetrachloroethane	0.388	0.413	-6.4	79	0.00
67	C	Ethyl Benzene	2.113	2.203	-4.3#	77	0.00
68	T	m/p-Xylenes	0.796	0.827	-3.9	77	0.00
69	T	o-Xylene	0.753	0.789	-4.8	78	0.01
70	T	Styrene	1.270	1.344	-5.8	78	0.00
71	P	Bromoform	0.209	0.220	-5.3	80	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	76	0.00
73	T	Isopropylbenzene	4.142	4.339	-4.8	79	0.00
74	T	N-amyl acetate	1.185	1.100	7.2	72	0.01
75	P	1,1,2,2-Tetrachloroethane	0.637	0.705	-10.7	85	0.00
76	T	1,2,3-Trichloropropane	0.507	0.502	1.0	76	0.00
77	T	Bromobenzene	0.885	0.922	-4.2	78	0.00
78	T	n-propylbenzene	4.996	5.201	-4.1	77	0.00
79	T	2-Chlorotoluene	2.746	2.788	-1.5	76	0.00
80	T	1,3,5-Trimethylbenzene	3.344	3.399	-1.6	76	0.00
81	T	trans-1,4-Dichloro-2-butene	0.250	0.224	10.4	72	0.00
82	T	4-Chlorotoluene	2.824	2.841	-0.6	74	0.00
83	T	tert-Butylbenzene	2.972	3.136	-5.5	79	0.00
84	T	1,2,4-Trimethylbenzene	3.319	3.380	-1.8	75	0.00
85	T	sec-Butylbenzene	4.412	4.609	-4.5	77	0.00
86	T	p-Isopropyltoluene	3.710	3.850	-3.8	77	0.00
87	T	1,3-Dichlorobenzene	1.806	1.889	-4.6	78	0.00
88	T	1,4-Dichlorobenzene	1.737	1.817	-4.6	79	0.00
89	T	n-Butylbenzene	3.510	3.575	-1.9	74	0.00
90	T	Hexachloroethane	0.749	0.772	-3.1	77	0.00
91	T	1,2-Dichlorobenzene	1.517	1.609	-6.1	80	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.103	0.105	-1.9	80	0.00
93	T	1,2,4-Trichlorobenzene	0.876	0.904	-3.2	76	0.00
94	T	Hexachlorobutadiene	0.489	0.473	3.3	72	0.00
95	T	Naphthalene	1.663	1.735	-4.3	80	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022419.D
Acq On : 23 May 2025 21:05
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: May 24 01:10:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.743	0.759	-2.2	77	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022419.D
Acq On : 23 May 2025 21:05
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: May 24 01:10:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	71	0.01
2	T	Dichlorodifluoromethane	50.000	48.943	2.1	72	0.00
3	P	Chloromethane	50.000	58.565	-17.1	88	0.00
4	C	Vinyl Chloride	50.000	63.701	-27.4#	92	0.00
5	T	Bromomethane	50.000	73.461	-46.9#	119	0.00
6	T	Chloroethane	50.000	65.125	-30.3#	93	0.00
7	T	Trichlorofluoromethane	50.000	51.284	-2.6	75	0.01
8	T	Diethyl Ether	50.000	56.356	-12.7	81	0.01
9	T	1,1,2-Trichlorotrifluoroeth	50.000	55.049	-10.1	78	0.00
10	T	Methyl Iodide	50.000	59.458	-18.9	77	0.00
11	T	Tert butyl alcohol	250.000	251.401	-0.6	77	0.02
12	CM	1,1-Dichloroethene	50.000	54.541	-9.1#	77	0.01
13	T	Acrolein	250.000	100.705	59.7#	31	0.01
14	T	Allyl chloride	50.000	46.461	7.1	65	0.02
15	T	Acrylonitrile	250.000	275.131	-10.1	80	0.01
16	T	Acetone	250.000	235.742	5.7	74	0.01
17	T	Carbon Disulfide	50.000	51.488	-3.0	73	0.01
18	T	Methyl Acetate	50.000	54.790	-9.6	83	0.01
19	T	Methyl tert-butyl Ether	50.000	55.592	-11.2	80	0.01
20	T	Methylene Chloride	50.000	50.340	-0.7	79	0.01
21	T	trans-1,2-Dichloroethene	50.000	55.161	-10.3	78	0.02
22	T	Diisopropyl ether	50.000	50.858	-1.7	72	0.01
23	T	Vinyl Acetate	250.000	245.783	1.7	71	0.01
24	P	1,1-Dichloroethane	50.000	54.648	-9.3	77	0.01
25	T	2-Butanone	250.000	245.808	1.7	74	0.00
26	T	2,2-Dichloropropane	50.000	50.072	-0.1	71	0.01
27	T	cis-1,2-Dichloroethene	50.000	56.905	-13.8	80	0.01
28	T	Bromochloromethane	50.000	53.972	-7.9	77	0.01
29	T	Tetrahydrofuran	250.000	254.973	-2.0	75	0.01
30	C	Chloroform	50.000	56.544	-13.1#	79	0.01
31	T	Cyclohexane	50.000	47.672	4.7	71	0.00
32	T	1,1,1-Trichloroethane	50.000	54.799	-9.6	78	0.01
33	S	1,2-Dichloroethane-d4	50.000	54.908	-9.8	79	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	75	0.00
35	S	Dibromofluoromethane	50.000	56.277	-12.6	83	0.01
36	T	1,1-Dichloropropene	50.000	52.050	-4.1	76	0.00
37	T	Ethyl Acetate	50.000	49.449	1.1	75	0.00
38	T	Carbon Tetrachloride	50.000	52.656	-5.3	78	0.01
39	T	Methylcyclohexane	50.000	51.480	-3.0	76	0.00
40	TM	Benzene	50.000	54.034	-8.1	79	0.00
41	T	Methacrylonitrile	50.000	44.335	11.3	66	0.00
42	TM	1,2-Dichloroethane	50.000	53.602	-7.2	79	0.00
43	T	Isopropyl Acetate	50.000	48.817	2.4	73	0.01
44	TM	Trichloroethene	50.000	52.965	-5.9	77	0.00
45	C	1,2-Dichloropropane	50.000	53.082	-6.2#	78	0.01
46	T	Dibromomethane	50.000	55.024	-10.0	83	0.00
47	T	Bromodichloromethane	50.000	54.621	-9.2	79	0.01
48	T	Methyl methacrylate	50.000	47.724	4.6	72	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022419.D
Acq On : 23 May 2025 21:05
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: May 24 01:10:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	1075.695	-7.6	84	0.00
50	S	Toluene-d8	50.000	53.924	-7.8	80	0.01
51	T	4-Methyl-2-Pentanone	250.000	251.669	-0.7	75	0.00
52	CM	Toluene	50.000	53.021	-6.0#	78	0.00
53	T	t-1,3-Dichloropropene	50.000	50.611	-1.2	75	0.00
54	T	cis-1,3-Dichloropropene	50.000	51.692	-3.4	76	0.00
55	T	1,1,2-Trichloroethane	50.000	54.714	-9.4	82	0.00
56	T	Ethyl methacrylate	50.000	53.108	-6.2	79	0.00
57	T	1,3-Dichloropropane	50.000	54.669	-9.3	81	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	285.424	-14.2	79	0.01
59	T	2-Hexanone	250.000	247.514	1.0	76	0.00
60	T	Dibromochloromethane	50.000	55.133	-10.3	80	0.01
61	T	1,2-Dibromoethane	50.000	55.980	-12.0	83	0.01
62	S	4-Bromofluorobenzene	50.000	50.386	-0.8	76	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	76	0.00
64	T	Tetrachloroethene	50.000	49.735	0.5	74	0.00
65	PM	Chlorobenzene	50.000	53.600	-7.2	79	0.01
66	T	1,1,1,2-Tetrachloroethane	50.000	53.225	-6.5	79	0.00
67	C	Ethyl Benzene	50.000	52.133	-4.3#	77	0.00
68	T	m/p-Xylenes	100.000	103.825	-3.8	77	0.00
69	T	o-Xylene	50.000	52.372	-4.7	78	0.01
70	T	Styrene	50.000	52.878	-5.8	78	0.00
71	P	Bromoform	50.000	52.537	-5.1	80	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	76	0.00
73	T	Isopropylbenzene	50.000	52.375	-4.8	79	0.00
74	T	N-amyl acetate	50.000	46.439	7.1	72	0.01
75	P	1,1,2,2-Tetrachloroethane	50.000	55.360	-10.7	85	0.00
76	T	1,2,3-Trichloropropane	50.000	49.574	0.9	76	0.00
77	T	Bromobenzene	50.000	52.120	-4.2	78	0.00
78	T	n-propylbenzene	50.000	52.044	-4.1	77	0.00
79	T	2-Chlorotoluene	50.000	50.777	-1.6	76	0.00
80	T	1,3,5-Trimethylbenzene	50.000	50.822	-1.6	76	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	44.849	10.3	72	0.00
82	T	4-Chlorotoluene	50.000	50.304	-0.6	74	0.00
83	T	tert-Butylbenzene	50.000	52.759	-5.5	79	0.00
84	T	1,2,4-Trimethylbenzene	50.000	50.919	-1.8	75	0.00
85	T	sec-Butylbenzene	50.000	52.239	-4.5	77	0.00
86	T	p-Isopropyltoluene	50.000	51.884	-3.8	77	0.00
87	T	1,3-Dichlorobenzene	50.000	52.302	-4.6	78	0.00
88	T	1,4-Dichlorobenzene	50.000	52.297	-4.6	79	0.00
89	T	n-Butylbenzene	50.000	50.922	-1.8	74	0.00
90	T	Hexachloroethane	50.000	51.508	-3.0	77	0.00
91	T	1,2-Dichlorobenzene	50.000	53.038	-6.1	80	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	51.067	-2.1	80	0.00
93	T	1,2,4-Trichlorobenzene	50.000	51.582	-3.2	76	0.00
94	T	Hexachlorobutadiene	50.000	48.374	3.3	72	0.00
95	T	Naphthalene	50.000	52.156	-4.3	80	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022419.D
Acq On : 23 May 2025 21:05
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: May 24 01:10:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	51.056	-2.1	77	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2118 SAS No.: Q2118 SDG No.: Q2118

Instrument ID: MSVOA_Y Calibration Date/Time: 05/27/2025 17:10

Lab File ID: VY022438.D Init. Calib. Date(s): 05/27/2025 05/27/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 08:50 10:44

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Chloromethane	1.173	1.106	0.1	-5.71	50
Vinyl Chloride	1.425	1.527		7.16	50
Bromomethane	1.295	1.291		-0.31	50
Chloroethane	0.932	1.055		13.2	50
Trichlorofluoromethane	1.203	1.361		13.13	50
1,1,2-Trichlorotrifluoroethane	0.528	0.526		-0.38	50
1,1-Dichloroethene	0.524	0.531		1.34	50
Acetone	0.087	0.096		10.35	50
Carbon Disulfide	1.672	1.662		-0.6	50
Methyl tert-butyl Ether	1.391	1.518		9.13	50
Methylene Chloride	0.611	0.612		0.16	50
trans-1,2-Dichloroethene	0.572	0.583		1.92	50
1,1-Dichloroethane	1.028	1.072	0.1	4.28	50
2-Butanone	0.144	0.164		13.89	50
Carbon Tetrachloride	0.484	0.491		1.45	50
cis-1,2-Dichloroethene	0.662	0.689		4.08	50
Chloroform	1.013	1.082		6.81	50
1,1,1-Trichloroethane	0.919	0.931		1.31	50
Methylcyclohexane	0.618	0.604		-2.27	50
Benzene	1.383	1.435		3.76	50
1,2-Dichloroethane	0.365	0.389		6.57	50
Trichloroethene	0.342	0.357		4.39	50
1,2-Dichloropropane	0.325	0.343		5.54	50
Bromodichloromethane	0.467	0.494		5.78	50
4-Methyl-2-Pentanone	0.213	0.249		16.9	50
Toluene	0.864	0.906		4.86	50
t-1,3-Dichloropropene	0.435	0.460		5.75	50
cis-1,3-Dichloropropene	0.511	0.534		4.5	50
1,1,2-Trichloroethane	0.229	0.249		8.73	50
2-Hexanone	0.140	0.165		17.86	50
Dibromochloromethane	0.293	0.322		9.9	50
Tetrachloroethene	0.426	0.439		3.05	50
Chlorobenzene	1.066	1.089	0.3	2.16	50
Ethyl Benzene	1.980	2.004		1.21	50
m/p-Xylenes	0.751	0.759		1.07	50
o-Xylene	0.705	0.725		2.84	50
Styrene	1.175	1.225		4.26	50
Bromoform	0.189	0.203	0.1	7.41	50

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2118 SAS No.: Q2118 SDG No.: Q2118

Instrument ID: MSVOA_Y Calibration Date/Time: 05/27/2025 17:10

Lab File ID: VY022438.D Init. Calib. Date(s): 05/27/2025 05/27/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 08:50 10:44

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Isopropylbenzene	3.935	3.842		-2.36	50
1,1,2,2-Tetrachloroethane	0.620	0.652	0.3	5.16	50
1,3-Dichlorobenzene	1.704	1.701		-0.18	50
1,4-Dichlorobenzene	1.629	1.646		1.04	50
1,2-Dichlorobenzene	1.423	1.481		4.08	50
1,2-Dichloroethane-d4	0.527	0.559		6.07	50
Dibromofluoromethane	0.293	0.304		3.75	50
Toluene-d8	1.194	1.227		2.76	50
4-Bromofluorobenzene	0.361	0.367		1.66	50

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022438.D
Acq On : 27 May 2025 17:10
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 28 08:06:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	215940	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	364513	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	319704	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	153246	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	120665	53.051	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 106.100%			
35) Dibromofluoromethane	7.634	113	110847	51.926	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 103.860%			
50) Toluene-d8	10.103	98	447277	51.398	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 102.800%			
62) 4-Bromofluorobenzene	12.401	95	133956	50.890	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 101.780%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.861	85	91750	44.534	ug/l	100
3) Chloromethane	2.068	50	238761	47.114	ug/l	99
4) Vinyl Chloride	2.202	62	329758	53.564	ug/l	98
5) Bromomethane	2.592	94	278873	49.847	ug/l	100
6) Chloroethane	2.732	64	227784	56.621	ug/l	99
7) Trichlorofluoromethane	3.050	101	293801	56.563	ug/l	97
8) Diethyl Ether	3.452	74	64970	54.247	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.812	101	113521	49.816	ug/l	99
10) Methyl Iodide	4.001	142	133073	51.761	ug/l	100
11) Tert butyl alcohol	4.866	59	47457	296.007	ug/l #	84
12) 1,1-Dichloroethene	3.787	96	114561	50.636	ug/l	98
13) Acrolein	3.653	56	62039	258.255	ug/l	99
14) Allyl chloride	4.385	41	173903	51.098	ug/l	98
15) Acrylonitrile	5.055	53	137130	284.055	ug/l	99
16) Acetone	3.873	43	103688	277.421	ug/l #	89
17) Carbon Disulfide	4.104	76	358889	49.708	ug/l	99
18) Methyl Acetate	4.385	43	97215	69.436	ug/l	100
19) Methyl tert-butyl Ether	5.116	73	327791	54.572	ug/l	98
20) Methylene Chloride	4.610	84	132094	50.049	ug/l	99
21) trans-1,2-Dichloroethene	5.110	96	125968	51.000	ug/l	99
22) Diisopropyl ether	6.018	45	397757	52.955	ug/l	99
23) Vinyl Acetate	5.958	43	1085430	251.677	ug/l	99
24) 1,1-Dichloroethane	5.915	63	231541	52.168	ug/l	100
25) 2-Butanone	6.896	43	177609	285.333	ug/l	96
26) 2,2-Dichloropropane	6.884	77	194187	48.319	ug/l	100
27) cis-1,2-Dichloroethene	6.890	96	148685	51.999	ug/l	99
28) Bromochloromethane	7.244	49	101033	54.514	ug/l	100
29) Tetrahydrofuran	7.262	42	118500	285.450	ug/l	99
30) Chloroform	7.421	83	233553	53.403	ug/l	99
31) Cyclohexane	7.701	56	205414	46.951	ug/l	97
32) 1,1,1-Trichloroethane	7.616	97	201031	50.648	ug/l	100
36) 1,1-Dichloropropene	7.835	75	168238	49.665	ug/l	99
37) Ethyl Acetate	6.988	43	77550	53.869	ug/l	99
38) Carbon Tetrachloride	7.817	117	179005	50.728	ug/l	97
39) Methylcyclohexane	9.109	83	220257	48.915	ug/l	98
40) Benzene	8.079	78	522962	51.884	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022438.D
Acq On : 27 May 2025 17:10
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 28 08:06:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.226	41	47932	54.858	ug/l		93
42) 1,2-Dichloroethane	8.158	62	141760	53.251	ug/l		100
43) Isopropyl Acetate	8.195	43	174194	55.374	ug/l		100
44) Trichloroethene	8.866	130	129953	52.154	ug/l		98
45) 1,2-Dichloropropane	9.140	63	125086	52.819	ug/l		98
46) Dibromomethane	9.231	93	70737	53.469	ug/l		99
47) Bromodichloromethane	9.426	83	180193	52.966	ug/l		98
48) Methyl methacrylate	9.219	41	83183	56.964	ug/l		100
49) 1,4-Dioxane	9.231	88	18170	1243.469	ug/l		97
51) 4-Methyl-2-Pentanone	9.999	43	454081	292.551	ug/l		100
52) Toluene	10.170	92	330369	52.475	ug/l		99
53) t-1,3-Dichloropropene	10.390	75	167640	52.902	ug/l		98
54) cis-1,3-Dichloropropene	9.853	75	194643	52.274	ug/l		99
55) 1,1,2-Trichloroethane	10.573	97	90934	54.365	ug/l		99
56) Ethyl methacrylate	10.438	69	130742	54.468	ug/l		96
57) 1,3-Dichloropropane	10.719	76	160238	54.362	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.713	63	337645	282.246	ug/l		98
59) 2-Hexanone	10.762	43	300417	295.339	ug/l		98
60) Dibromochloromethane	10.908	129	117196	54.851	ug/l		98
61) 1,2-Dibromoethane	11.018	107	84983	55.550	ug/l		98
64) Tetrachloroethene	10.646	164	140398	51.564	ug/l		95
65) Chlorobenzene	11.438	112	348144	51.070	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.518	131	118142	51.150	ug/l		98
67) Ethyl Benzene	11.518	91	640745	50.620	ug/l		99
68) m/p-Xylenes	11.627	106	485062	101.074	ug/l		99
69) o-Xylene	11.956	106	231722	51.375	ug/l		99
70) Styrene	11.969	104	391490	52.127	ug/l		99
71) Bromoform	12.133	173	64997	53.724	ug/l	#	99
73) Isopropylbenzene	12.255	105	588766	48.816	ug/l		100
74) N-amyl acetate	12.066	43	151521	51.341	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.505	83	99990	52.620	ug/l		98
76) 1,2,3-Trichloropropane	12.554	75	72584m	47.286	ug/l		
77) Bromobenzene	12.530	156	128001	49.317	ug/l		97
78) n-propylbenzene	12.597	91	714786	49.384	ug/l		100
79) 2-Chlorotoluene	12.676	91	386484	49.327	ug/l		100
80) 1,3,5-Trimethylbenzene	12.737	105	470592	49.937	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.304	75	33779	49.765	ug/l		100
82) 4-Chlorotoluene	12.773	91	396857	49.180	ug/l		99
83) tert-Butylbenzene	12.993	119	425162	49.935	ug/l		100
84) 1,2,4-Trimethylbenzene	13.042	105	474294	50.013	ug/l		99
85) sec-Butylbenzene	13.176	105	628153	49.747	ug/l		100
86) p-Isopropyltoluene	13.292	119	523705	49.668	ug/l		100
87) 1,3-Dichlorobenzene	13.285	146	260669	49.914	ug/l		100
88) 1,4-Dichlorobenzene	13.365	146	252310	50.528	ug/l		99
89) n-Butylbenzene	13.615	91	491561	49.721	ug/l		99
90) Hexachloroethane	13.877	117	105769	50.407	ug/l		97
91) 1,2-Dichlorobenzene	13.657	146	227011	52.043	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	14.273	75	16260	55.375	ug/l		96
93) 1,2,4-Trichlorobenzene	14.919	180	124984	51.685	ug/l		98
94) Hexachlorobutadiene	15.023	225	63507	50.042	ug/l		97
95) Naphthalene	15.139	128	252996	56.592	ug/l		99
96) 1,2,3-Trichlorobenzene	15.328	180	106651	53.776	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022438.D
Acq On : 27 May 2025 17:10
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 28 08:06:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

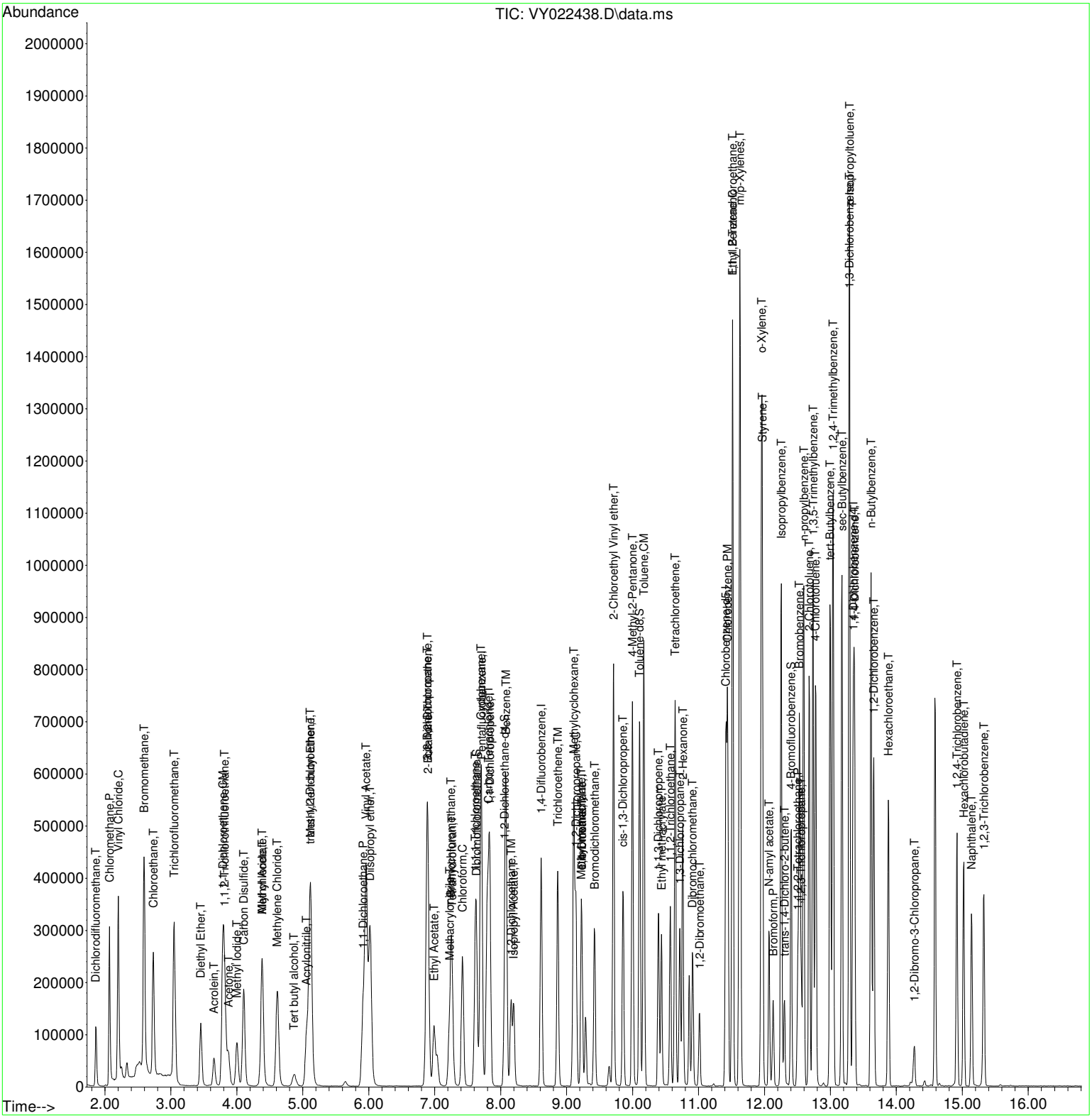
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022438.D
Acq On : 27 May 2025 17:10
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 20 Sample Multiplier: 1

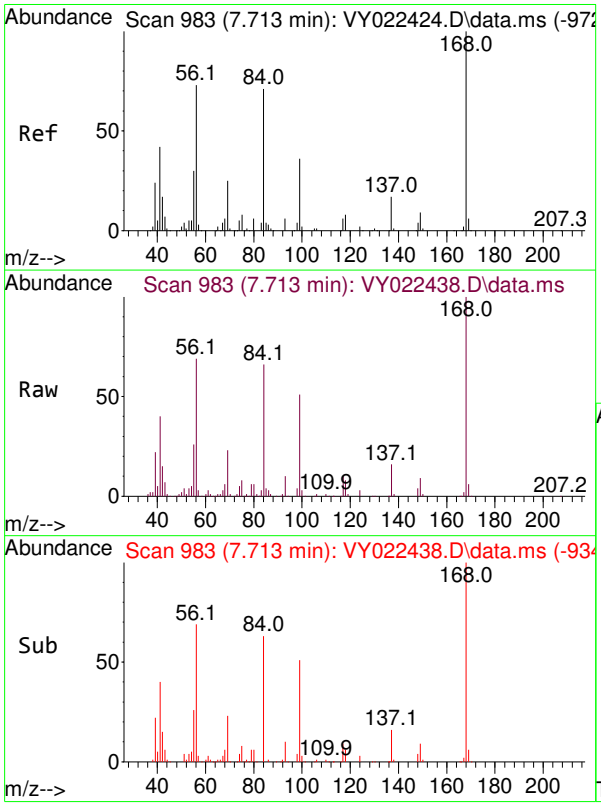
Quant Time: May 28 08:06:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

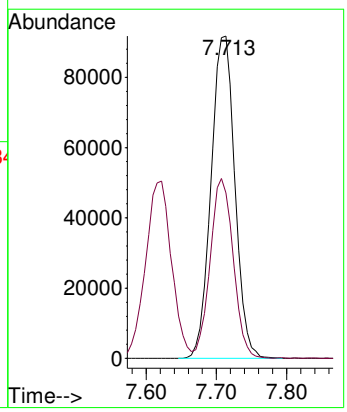
Tgt Ion:168 Resp: 21594

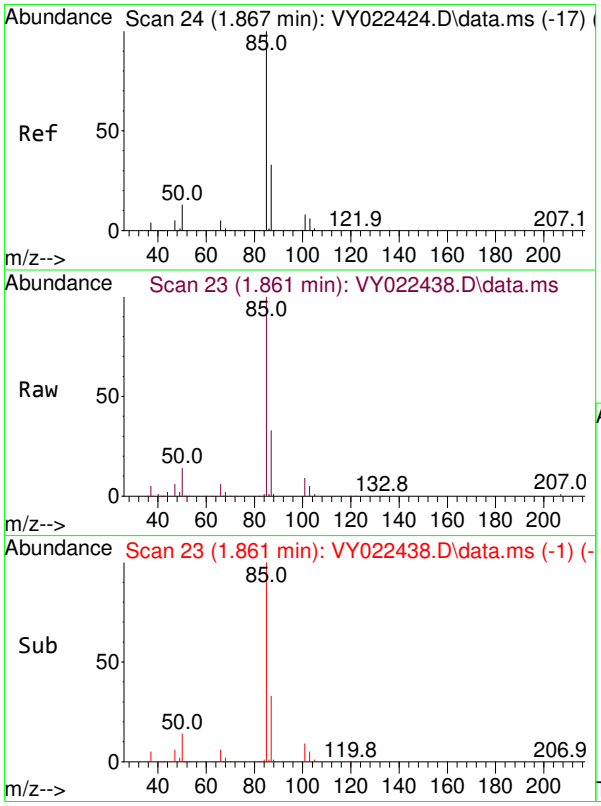
Ion	Ratio	Lower	Upper
168	100		
99	51.2	44.7	67.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

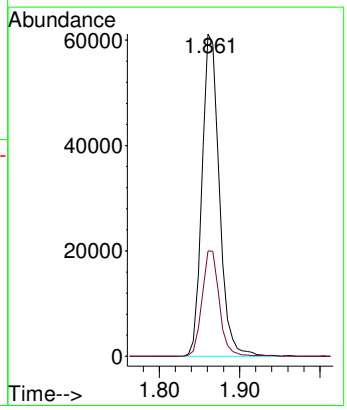


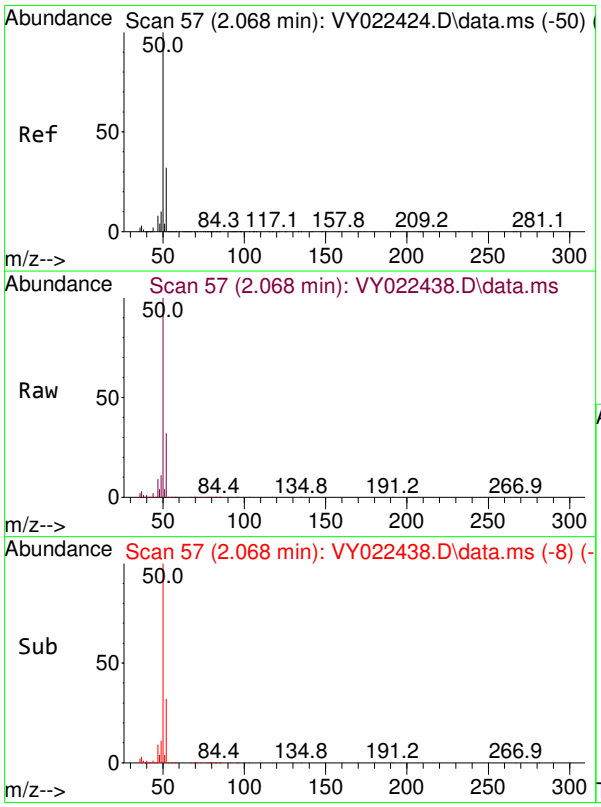


#2
Dichlorodifluoromethane
Concen: 44.534 ug/l
RT: 1.861 min Scan# 23
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 85 Resp: 91750

Ion	Ratio	Lower	Upper
85	100		
87	32.6	16.4	49.2





#3
Chloromethane
Concen: 47.114 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 50 Resp: 23876

Ion	Ratio	Lower	Upper
50	100		
52	32.3	25.5	38.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Amit Patel 05/28/2025
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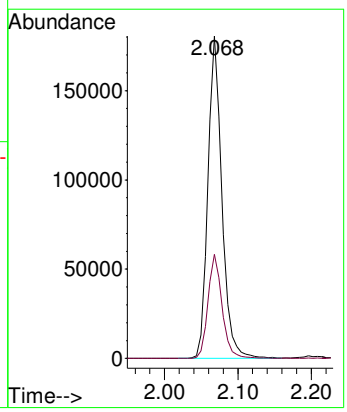
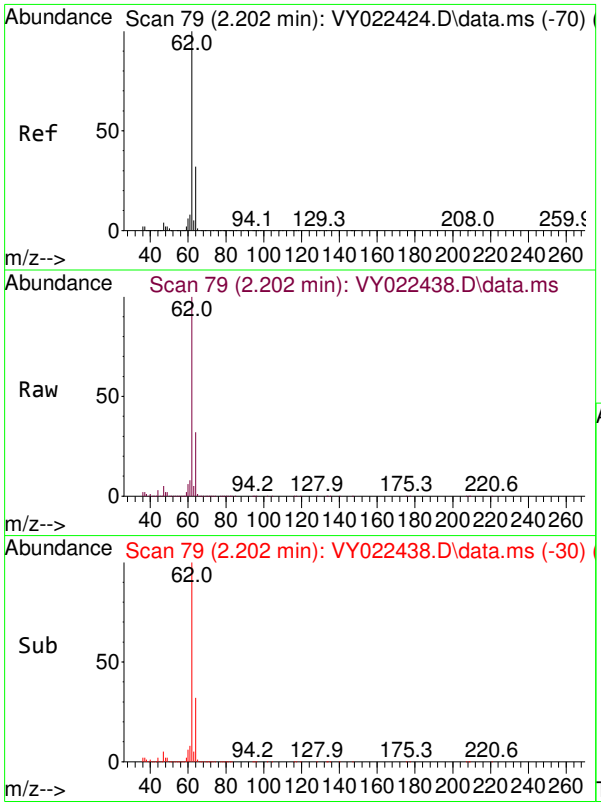
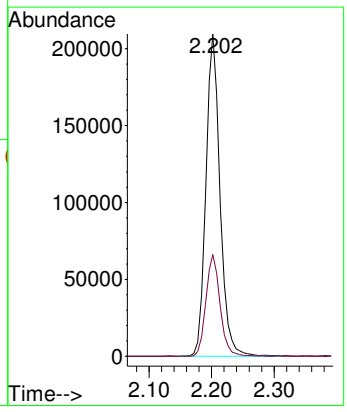


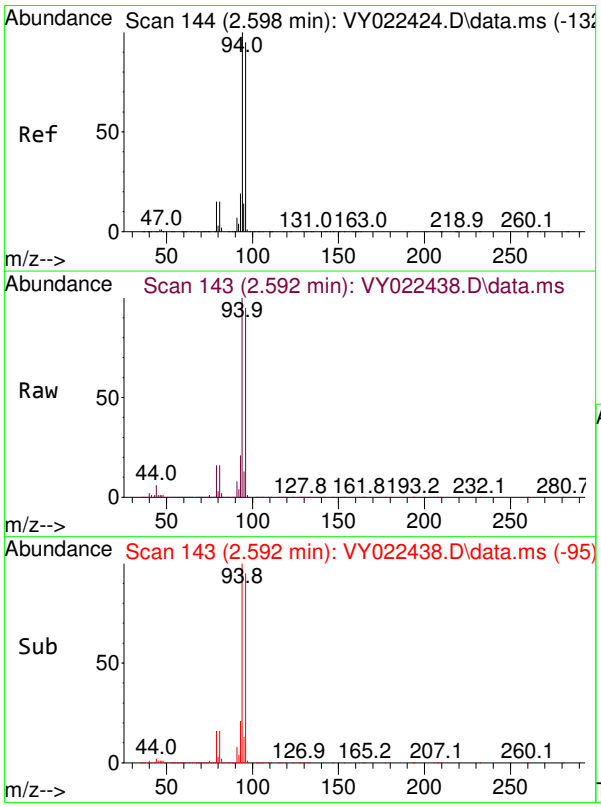


#4
Vinyl Chloride
Concen: 53.564 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.000 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 62 Resp: 329758

Ion	Ratio	Lower	Upper
62	100		
64	31.6	26.0	39.0





#5
Bromomethane
Concen: 49.847 ug/l
RT: 2.592 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 94 Resp: 27887

Ion	Ratio	Lower	Upper
94	100		
96	94.8	76.0	114.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Amit Patel 05/28/2025
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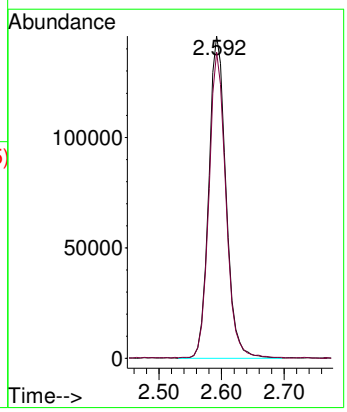
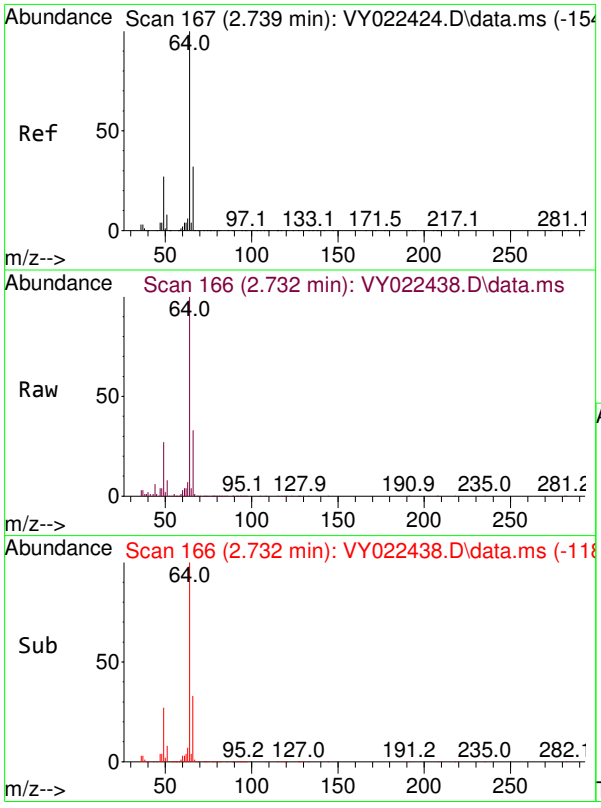
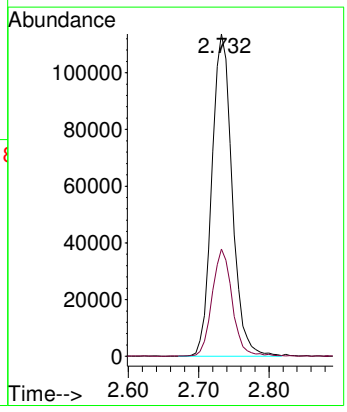


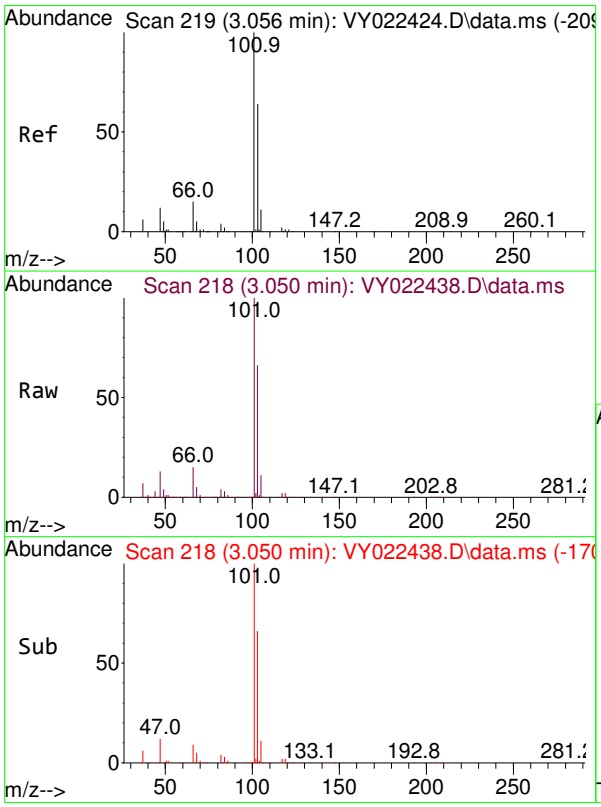


#6
Chloroethane
Concen: 56.621 ug/l
RT: 2.732 min Scan# 166
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 64 Resp: 227784

Ion	Ratio	Lower	Upper
64	100		
66	33.1	25.9	38.9

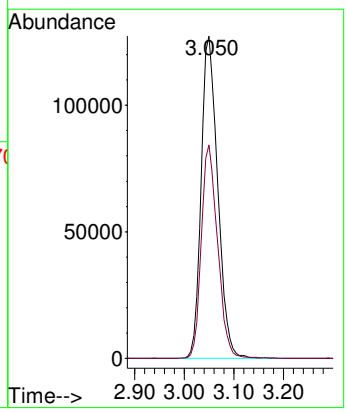




#7
Trichlorofluoromethane
Concen: 56.563 ug/l
RT: 3.050 min Scan# 2
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion:101 Resp: 29380

Ion	Ratio	Lower	Upper
101	100		
103	66.2	50.9	76.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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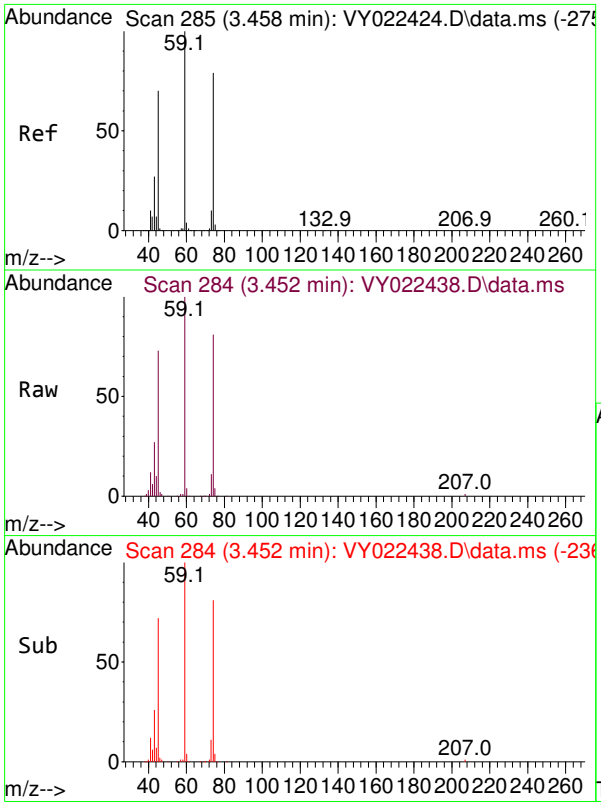
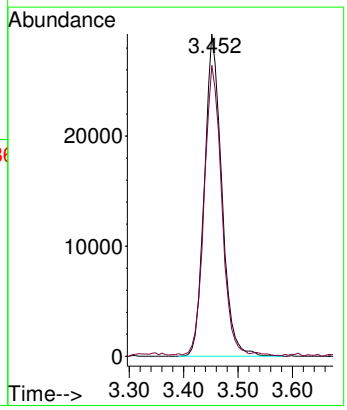
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

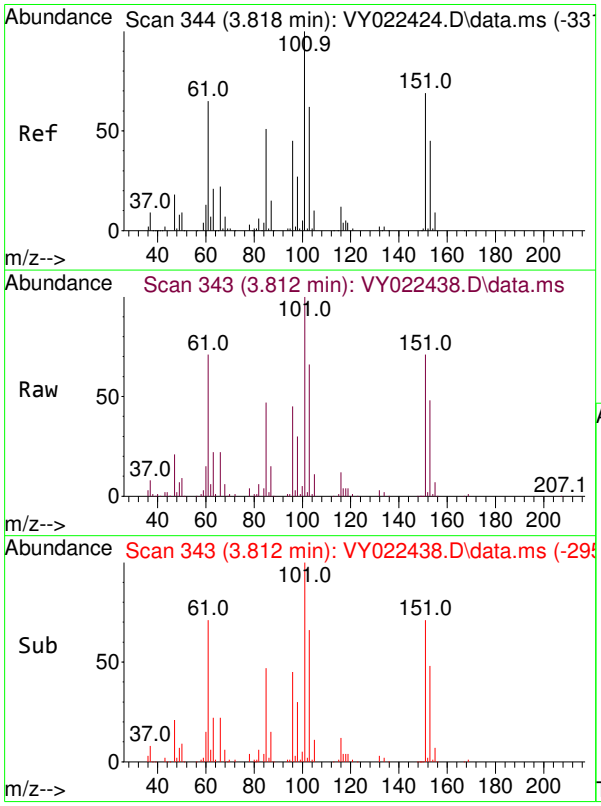


#8
Diethyl Ether
Concen: 54.247 ug/l
RT: 3.452 min Scan# 284
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 74 Resp: 64970

Ion	Ratio	Lower	Upper
74	100		
45	90.5	44.9	134.5





#9
1,1,2-Trichlorotrifluoroethane
Concen: 49.816 ug/l
RT: 3.812 min Scan# 3
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion:101 Resp: 11352

Ion	Ratio	Lower	Upper
101	100		
85	48.5	39.2	58.8
151	72.7	58.8	88.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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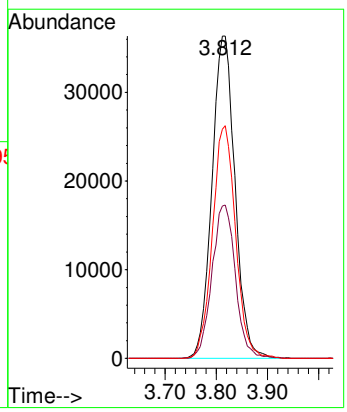
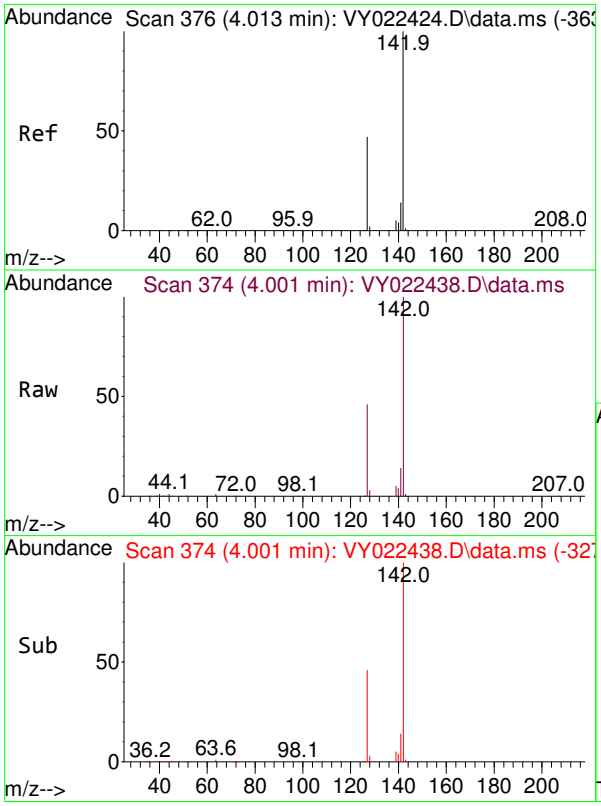
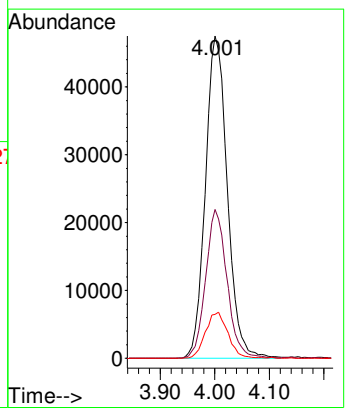


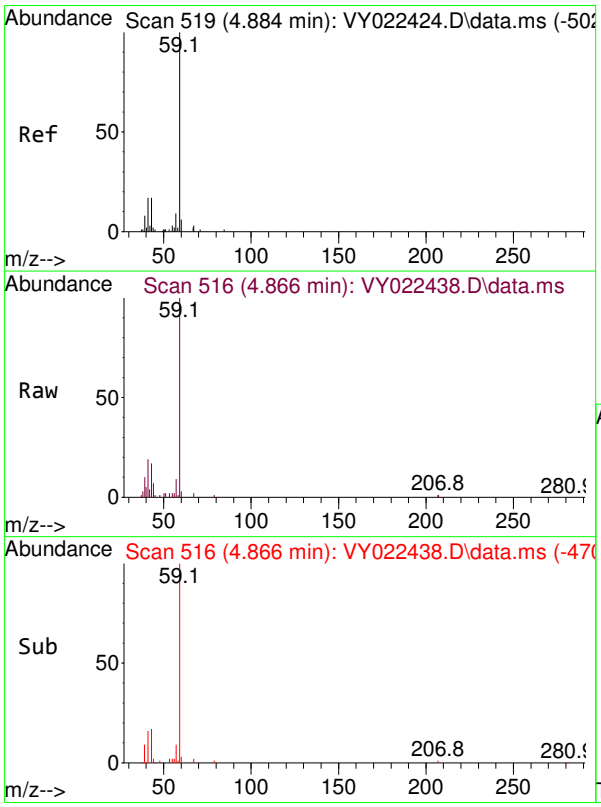


#10
Methyl Iodide
Concen: 51.761 ug/l
RT: 4.001 min Scan# 374
Delta R.T. -0.012 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion:142 Resp: 133073

Ion	Ratio	Lower	Upper
142	100		
127	45.0	36.2	54.4
141	14.6	11.6	17.4





#11
Tert butyl alcohol
Concen: 296.007 ug/l
RT: 4.866 min Scan# 5
Delta R.T. -0.018 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 59 Resp: 4745

Ion	Ratio	Lower	Upper
59	100		
57	5.4	9.1	13.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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Reviewed By :Amit Patel 05/28/2025
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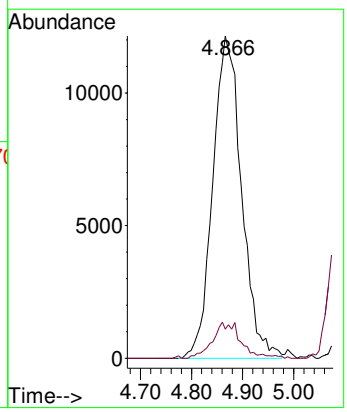
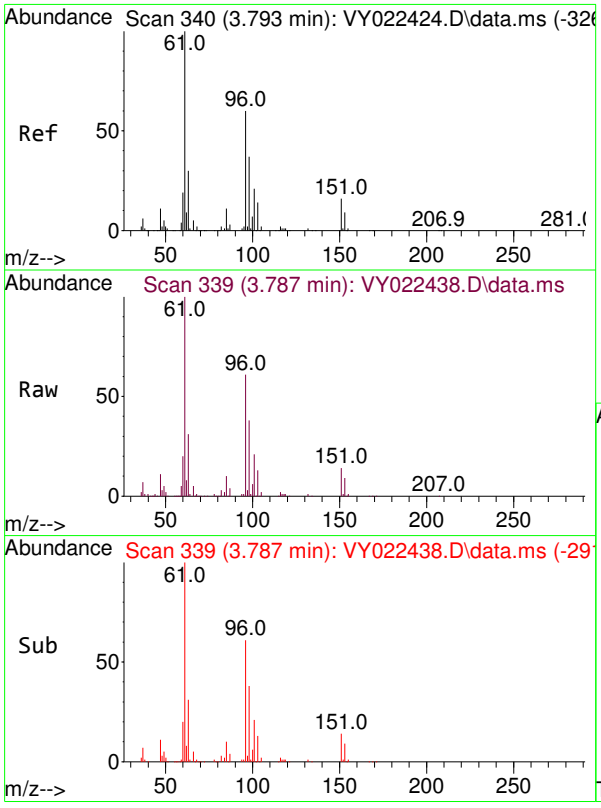
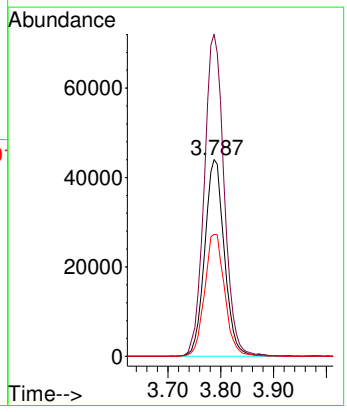


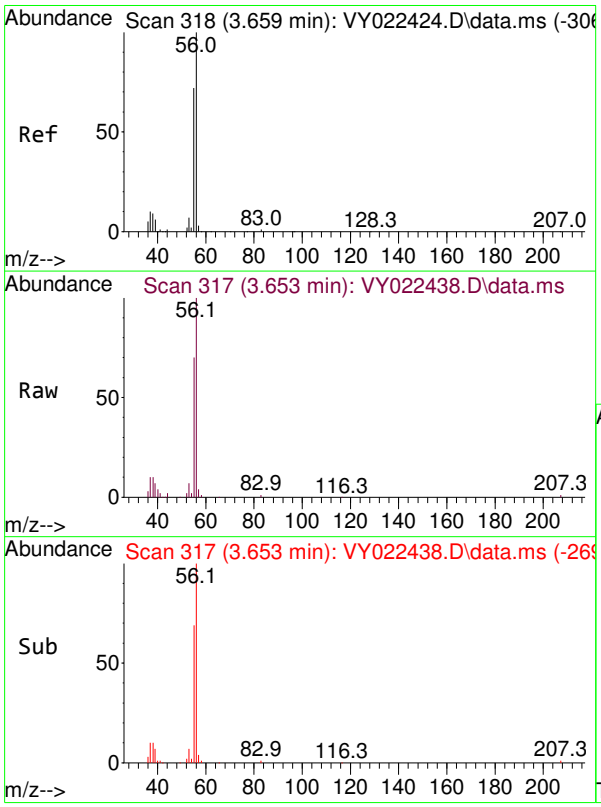


#12
1,1-Dichloroethene
Concen: 50.636 ug/l
RT: 3.787 min Scan# 339
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 96 Resp: 114561

Ion	Ratio	Lower	Upper
96	100		
61	163.5	134.1	201.1
98	62.0	50.2	75.2





#13
Acrolein
Concen: 258.255 ug/l
RT: 3.653 min Scan# 3
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 56 Resp: 6203

Ion	Ratio	Lower	Upper
56	100		
55	69.8	56.5	84.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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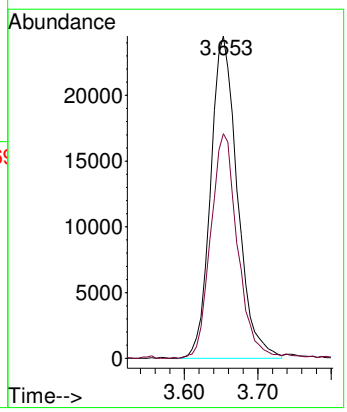
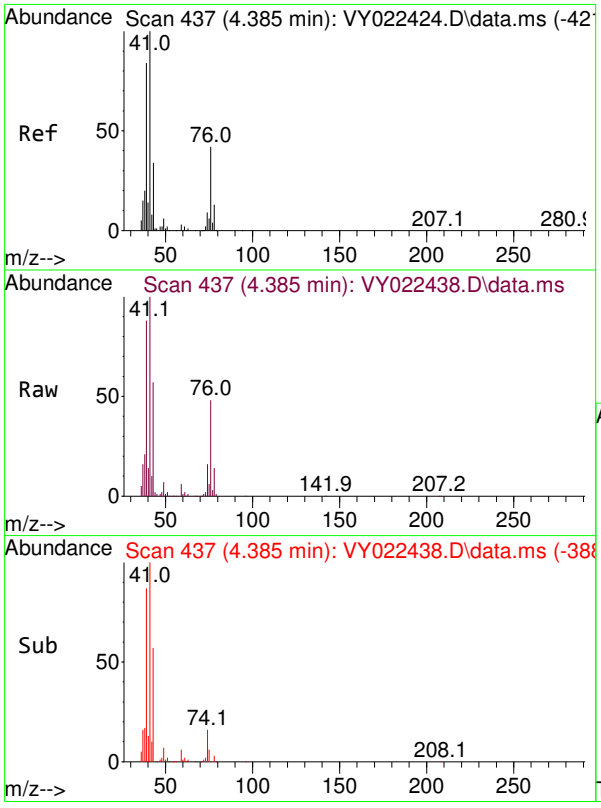
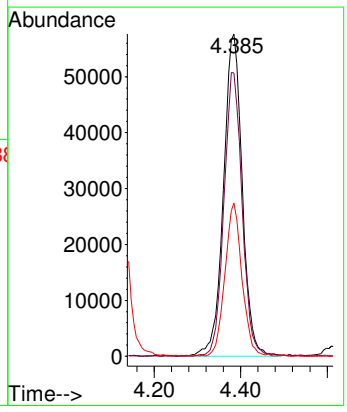


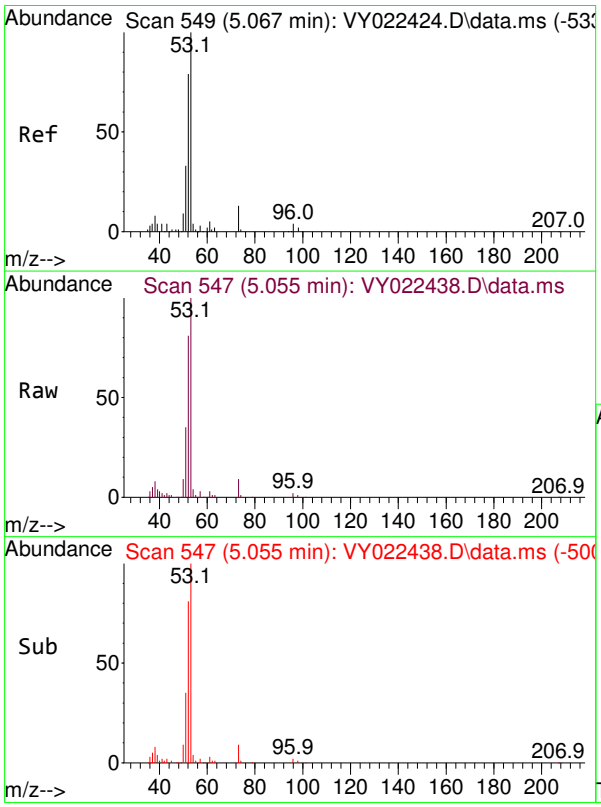


#14
Allyl chloride
Concen: 51.098 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.000 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 41 Resp: 173903

Ion	Ratio	Lower	Upper
41	100		
39	85.2	66.6	100.0
76	42.9	33.7	50.5





#15
Acrylonitrile
Concen: 284.055 ug/l
RT: 5.055 min Scan# 5
Delta R.T. -0.012 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 53 Resp: 13713

Ion	Ratio	Lower	Upper
53	100		
52	82.4	65.1	97.7
51	38.4	30.0	45.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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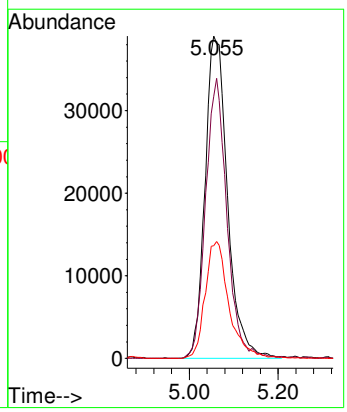
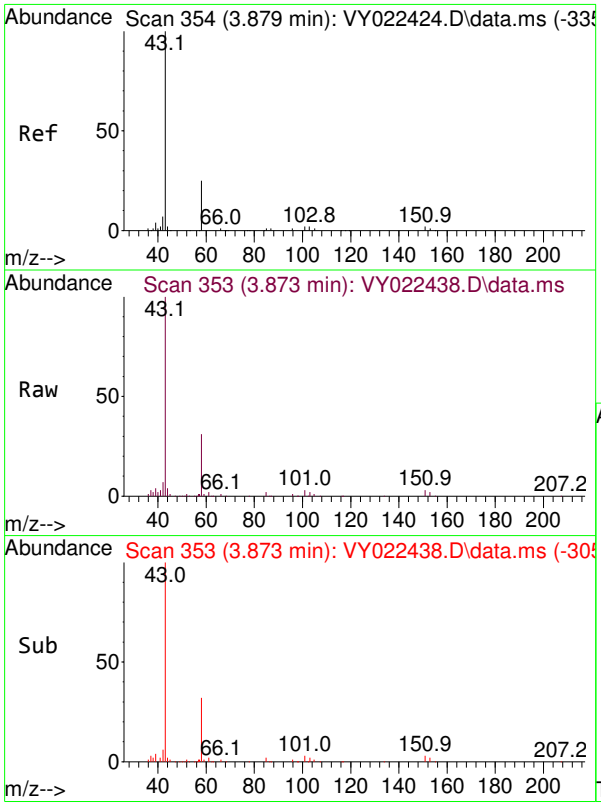
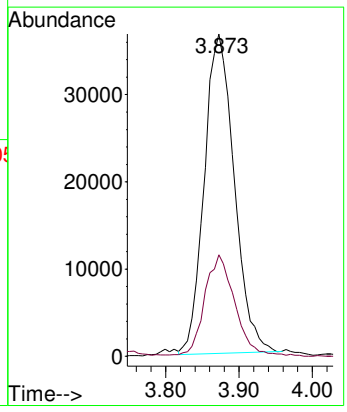


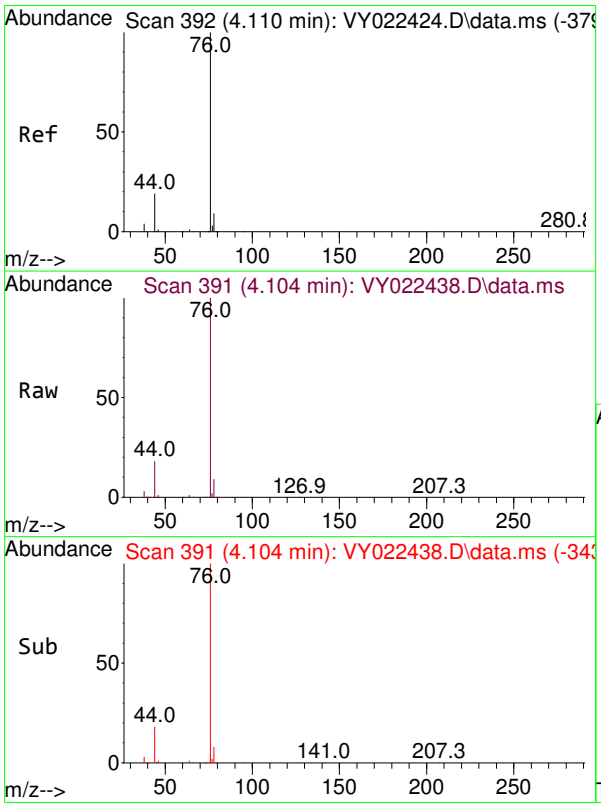


#16
Acetone
Concen: 277.421 ug/l
RT: 3.873 min Scan# 353
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 43 Resp: 103688

Ion	Ratio	Lower	Upper
43	100		
58	31.4	20.6	30.8#





#17
Carbon Disulfide
Concen: 49.708 ug/l
RT: 4.104 min Scan# 3
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 76 Resp: 35888

Ion	Ratio	Lower	Upper
76	100		
78	8.7	7.2	10.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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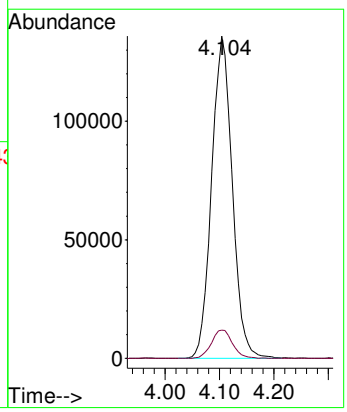
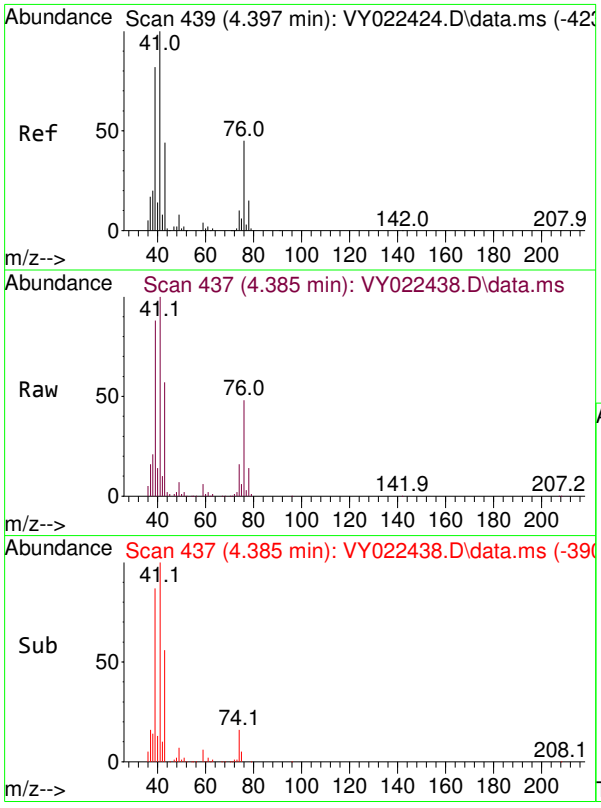
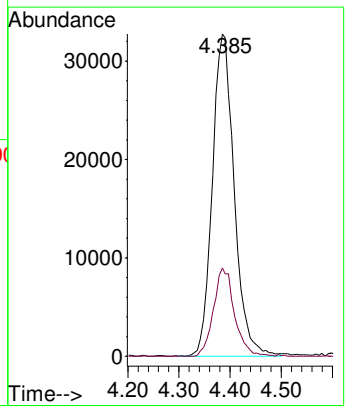


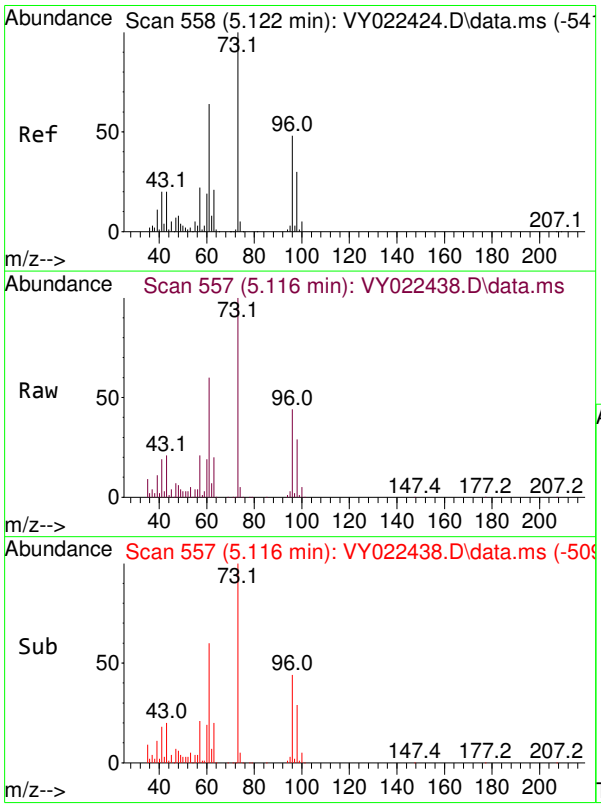


#18
Methyl Acetate
Concen: 69.436 ug/l
RT: 4.385 min Scan# 437
Delta R.T. -0.012 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 43 Resp: 97215

Ion	Ratio	Lower	Upper
43	100		
74	26.2	21.2	31.8





#19
Methyl tert-butyl Ether
Concen: 54.572 ug/l
RT: 5.116 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 73 Resp: 32779

Ion	Ratio	Lower	Upper
73	100		
57	21.3	17.7	26.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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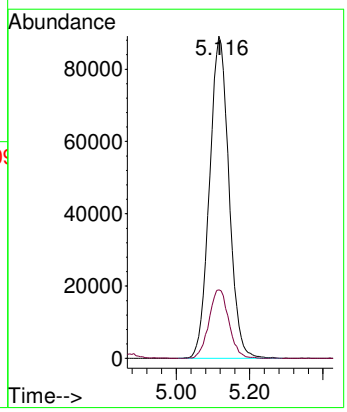
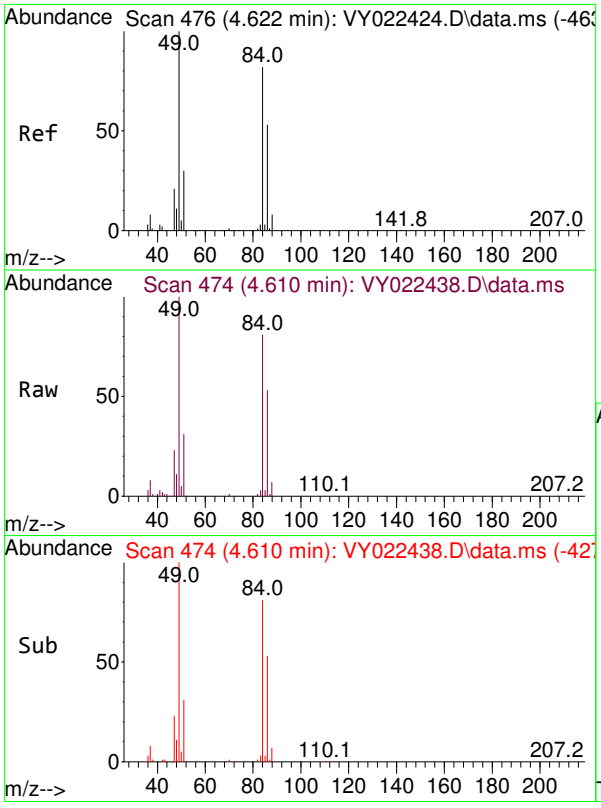
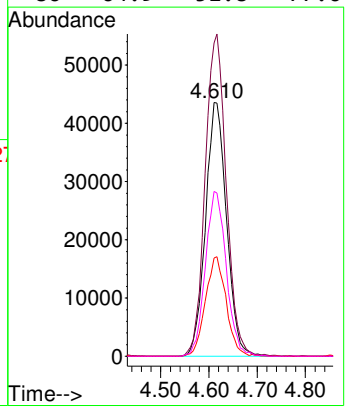


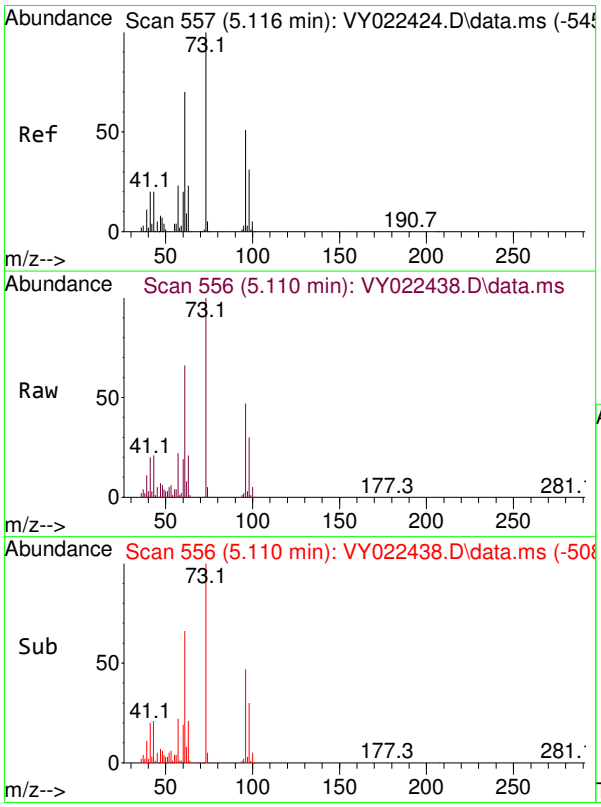


#20
Methylene Chloride
Concen: 50.049 ug/l
RT: 4.610 min Scan# 474
Delta R.T. -0.012 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 84 Resp: 132094

Ion	Ratio	Lower	Upper
84	100		
49	123.4	97.8	146.8
51	38.8	29.5	44.3
86	64.9	51.8	77.6

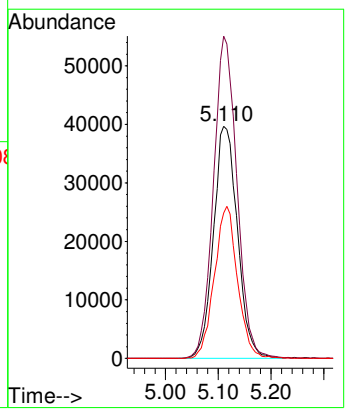




#21
trans-1,2-Dichloroethene
Concen: 51.000 ug/l
RT: 5.110 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 96 Resp: 12596

Ion	Ratio	Lower	Upper
96	100		
61	138.9	110.4	165.6
98	62.6	48.6	73.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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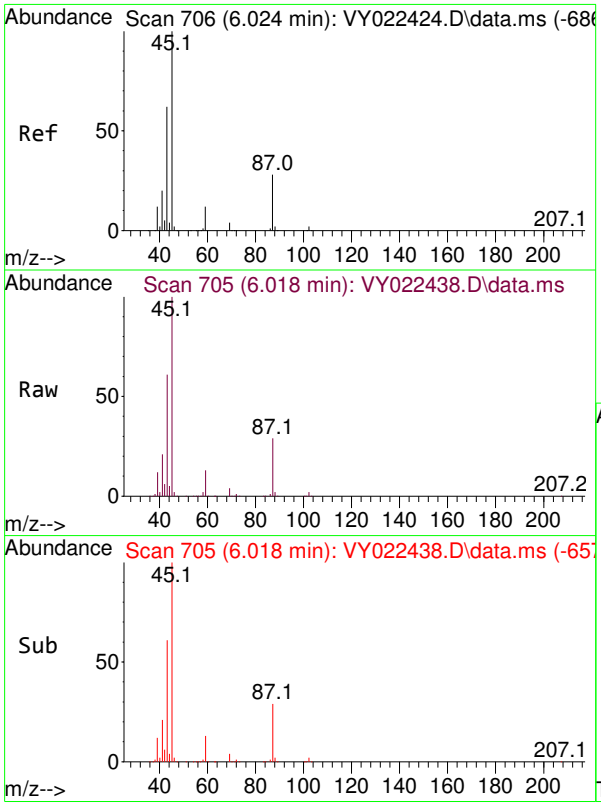
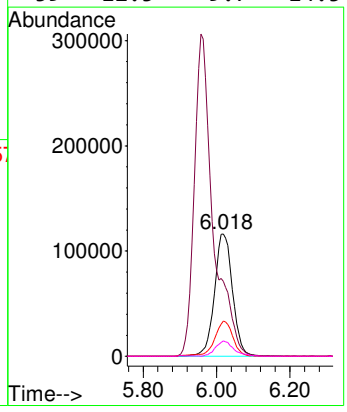
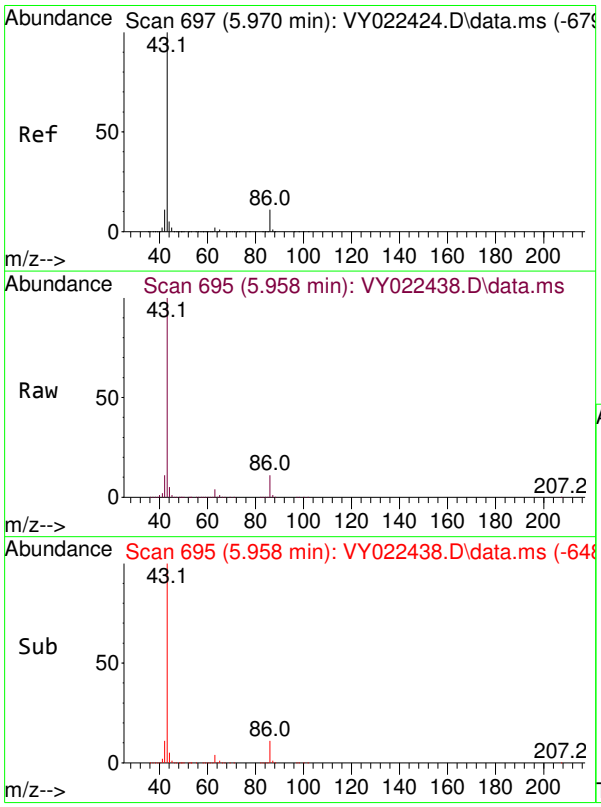


#22
Diisopropyl ether
Concen: 52.955 ug/l
RT: 6.018 min Scan# 705
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 45 Resp: 397757

Ion	Ratio	Lower	Upper
45	100		
43	60.8	49.8	74.8
87	28.8	23.0	34.6
59	12.5	9.7	14.5





#23
Vinyl Acetate
Concen: 251.677 ug/l
RT: 5.958 min Scan# 6
Delta R.T. -0.012 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 43 Resp: 108543

Ion	Ratio	Lower	Upper
43	100		
86	10.6	8.8	13.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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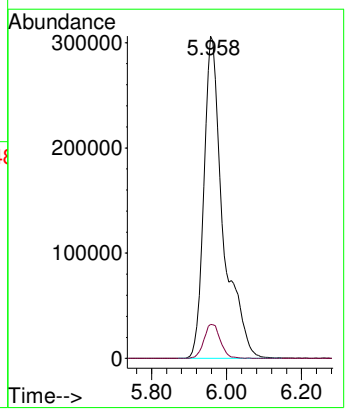
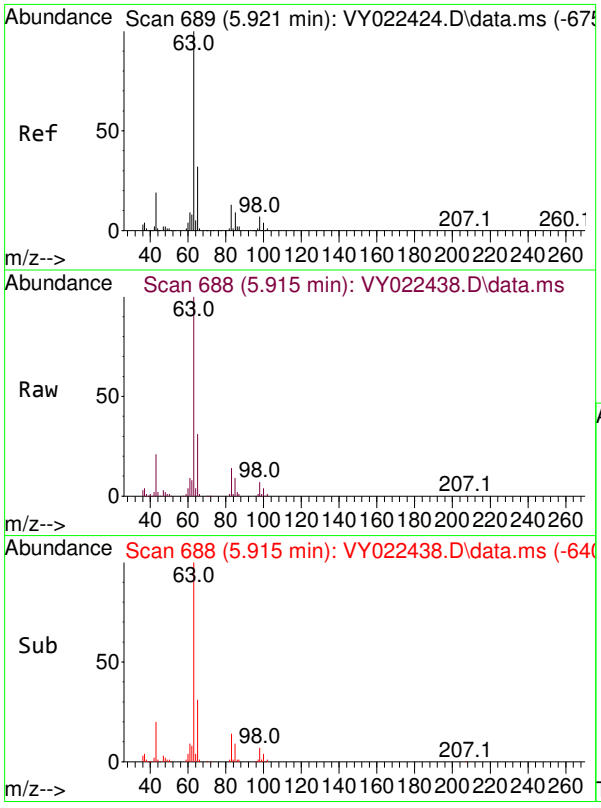
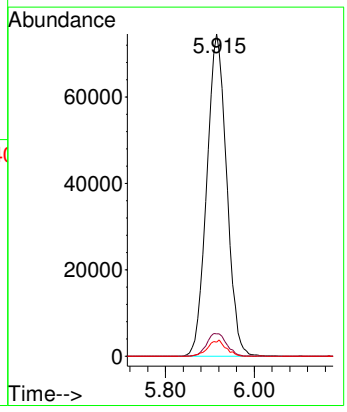


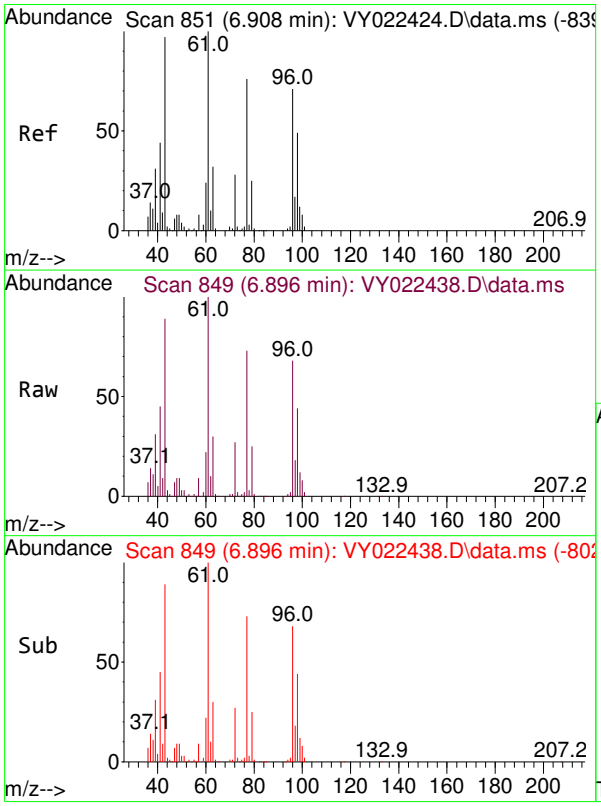


#24
1,1-Dichloroethane
Concen: 52.168 ug/l
RT: 5.915 min Scan# 688
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 63 Resp: 231541

Ion	Ratio	Lower	Upper
63	100		
98	7.0	3.5	10.5
100	4.4	2.1	6.5





#25
2-Butanone
Concen: 285.333 ug/l
RT: 6.896 min Scan# 8
Delta R.T. -0.012 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 43 Resp: 17760

Ion	Ratio	Lower	Upper
43	100		
72	30.4	22.8	34.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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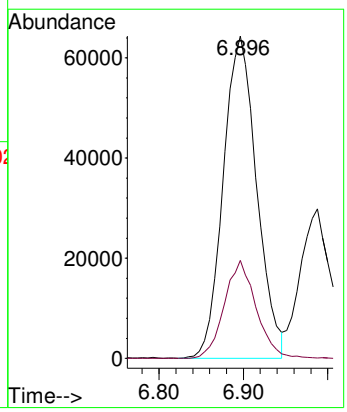
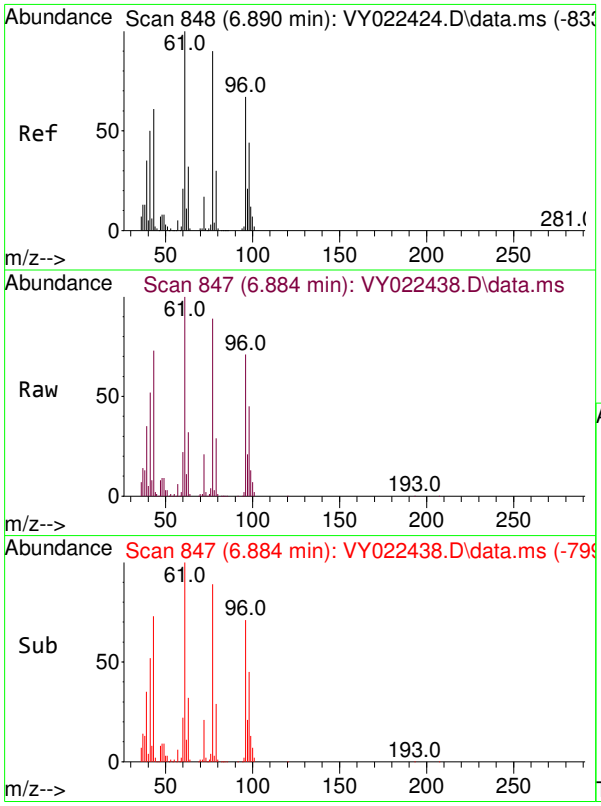
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

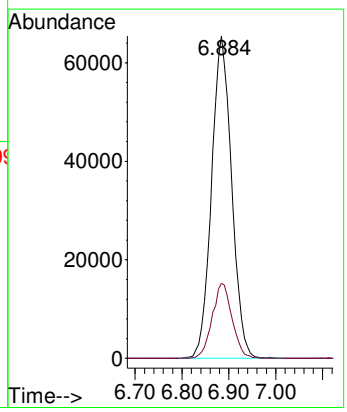


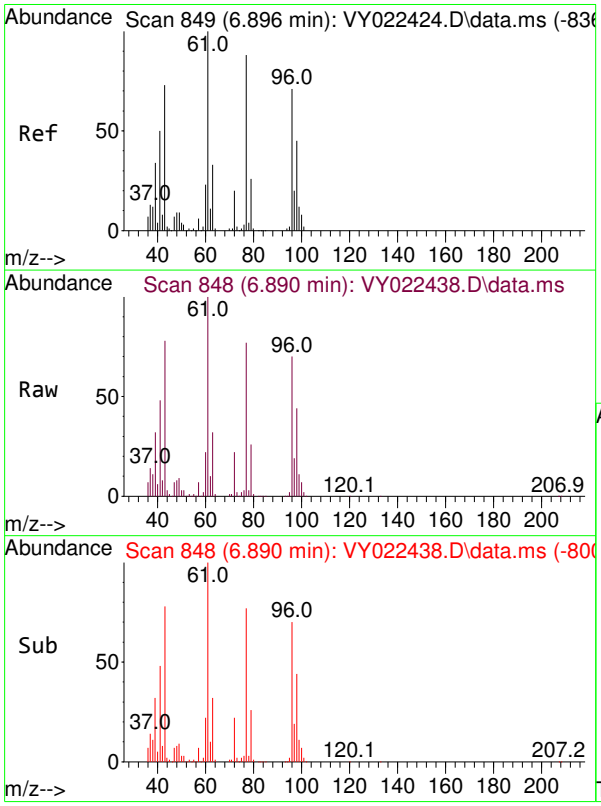


#26
2,2-Dichloropropane
Concen: 48.319 ug/l
RT: 6.884 min Scan# 847
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 77 Resp: 194187

Ion	Ratio	Lower	Upper
77	100		
97	23.0	11.6	34.7

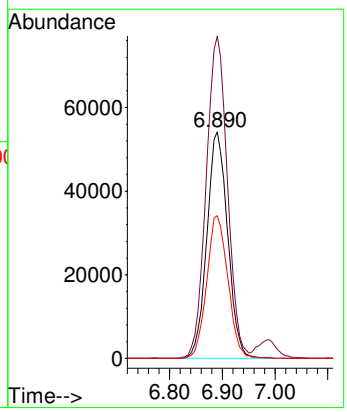




#27
cis-1,2-Dichloroethene
Concen: 51.999 ug/l
RT: 6.890 min Scan# 8
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 96 Resp: 14868

Ion	Ratio	Lower	Upper
96	100		
61	145.4	0.0	292.0
98	64.3	0.0	131.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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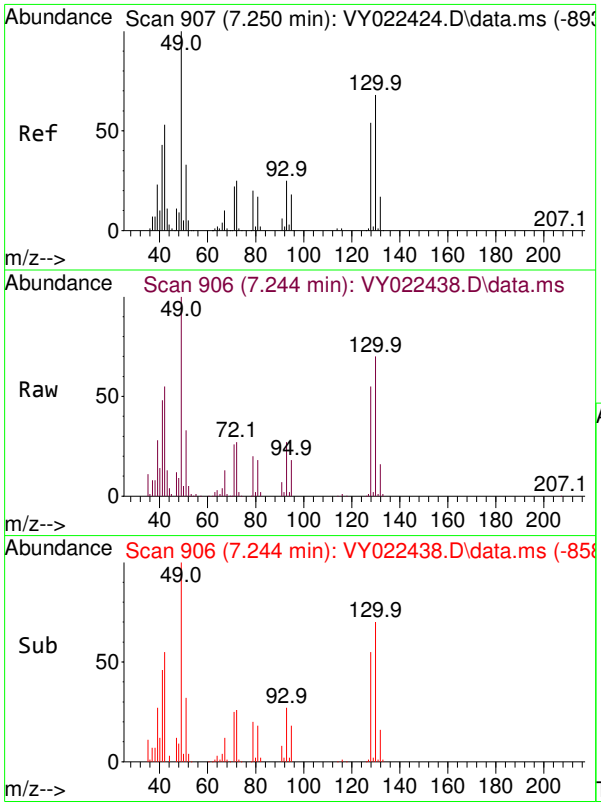
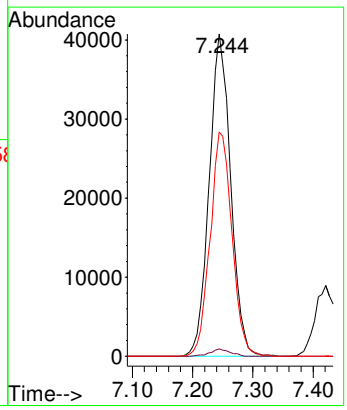
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

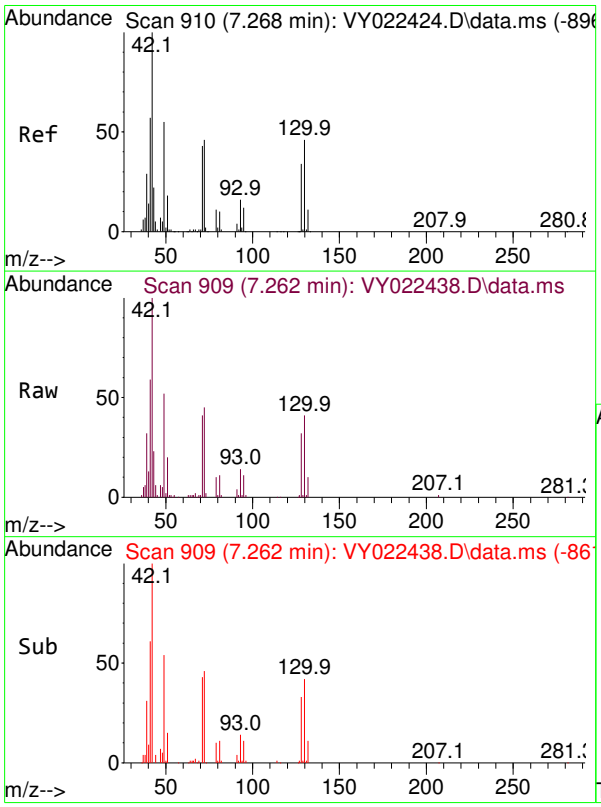


#28
Bromochloromethane
Concen: 54.514 ug/l
RT: 7.244 min Scan# 906
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 49 Resp: 101033

Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	4.0
130	71.1	56.9	85.3

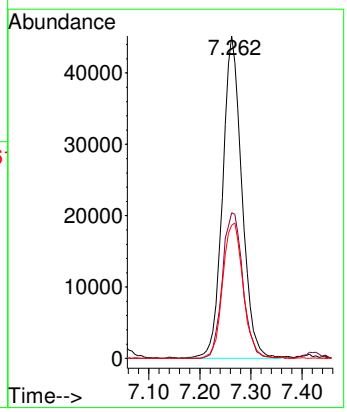




#29
Tetrahydrofuran
Concen: 285.450 ug/l
RT: 7.262 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 42 Resp: 11850

Ion	Ratio	Lower	Upper
42	100		
72	47.7	37.7	56.5
71	44.4	34.7	52.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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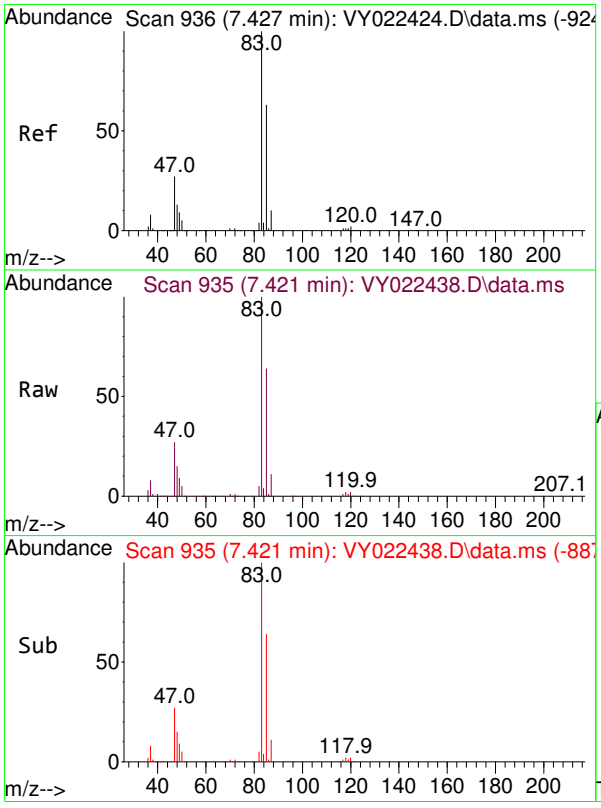
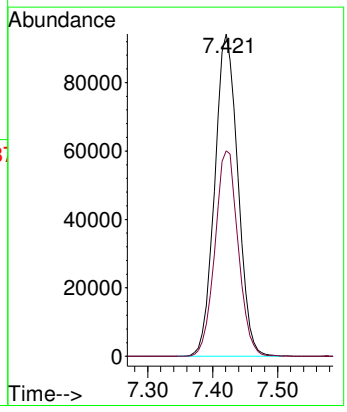
Supervised By :Mahesh Dadoda 05/28/2025

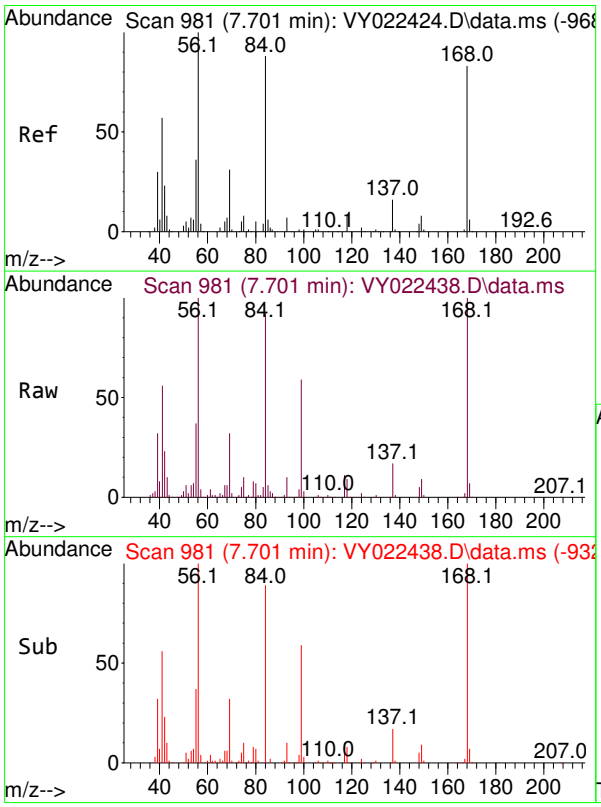


#30
Chloroform
Concen: 53.403 ug/l
RT: 7.421 min Scan# 935
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 83 Resp: 233553

Ion	Ratio	Lower	Upper
83	100		
85	63.7	50.1	75.1





#31
Cyclohexane
Concen: 46.951 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 56 Resp: 20541

Ion	Ratio	Lower	Upper
56	100		
69	32.0	24.6	36.8
84	91.1	70.4	105.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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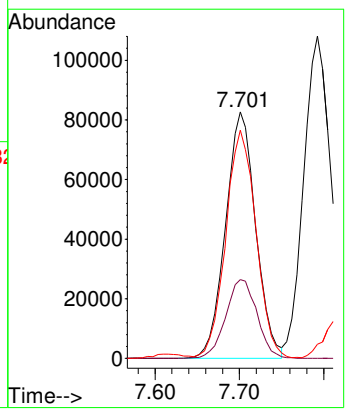
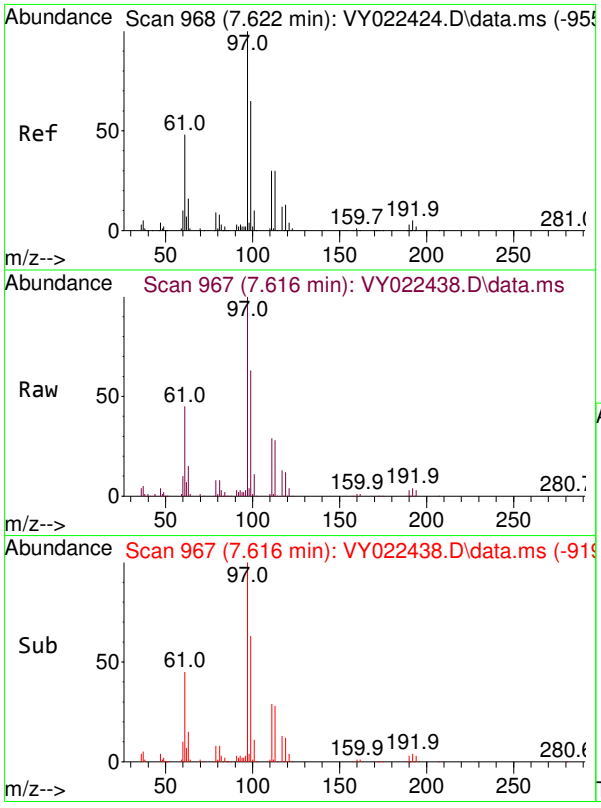
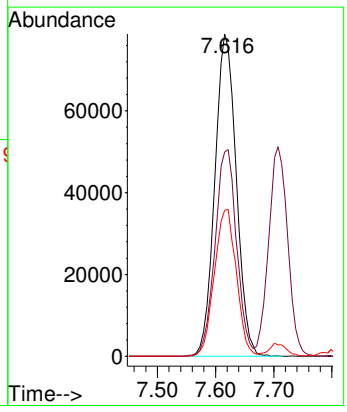


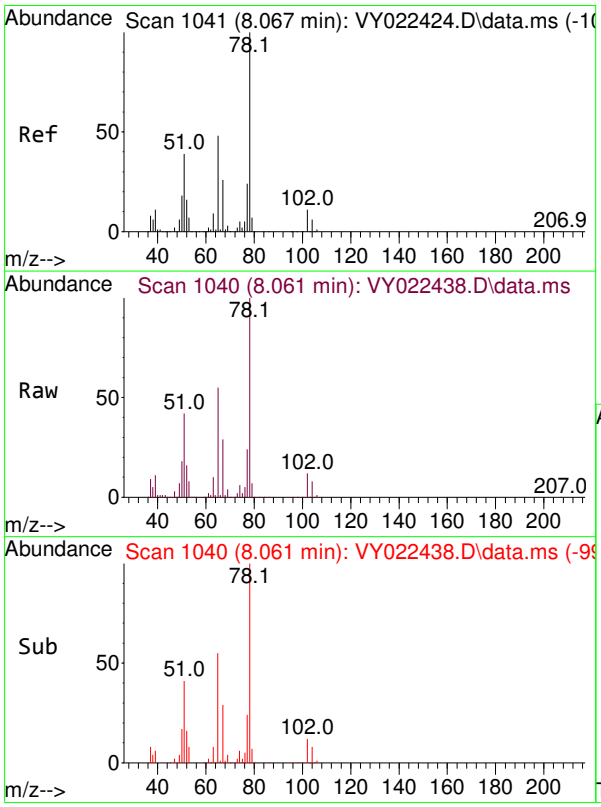


#32
1,1,1-Trichloroethane
Concen: 50.648 ug/l
RT: 7.616 min Scan# 967
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 97 Resp: 201031

Ion	Ratio	Lower	Upper
97	100		
99	64.6	51.3	76.9
61	46.8	37.3	55.9





#33
1,2-Dichloroethane-d4
Concen: 53.051 ug/l
RT: 8.061 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 65 Resp: 12066

Ion	Ratio	Lower	Upper
65	100		
67	52.0	0.0	104.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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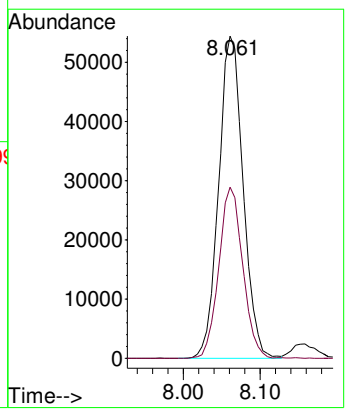
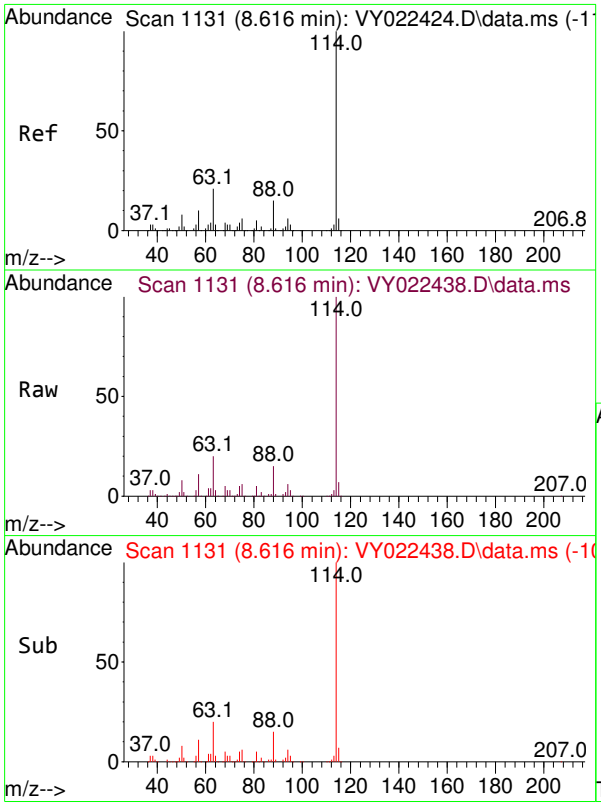
Supervised By :Mahesh Dadoda 05/28/2025

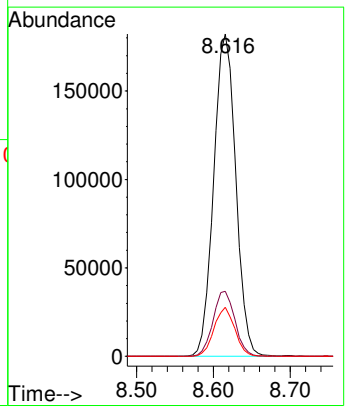


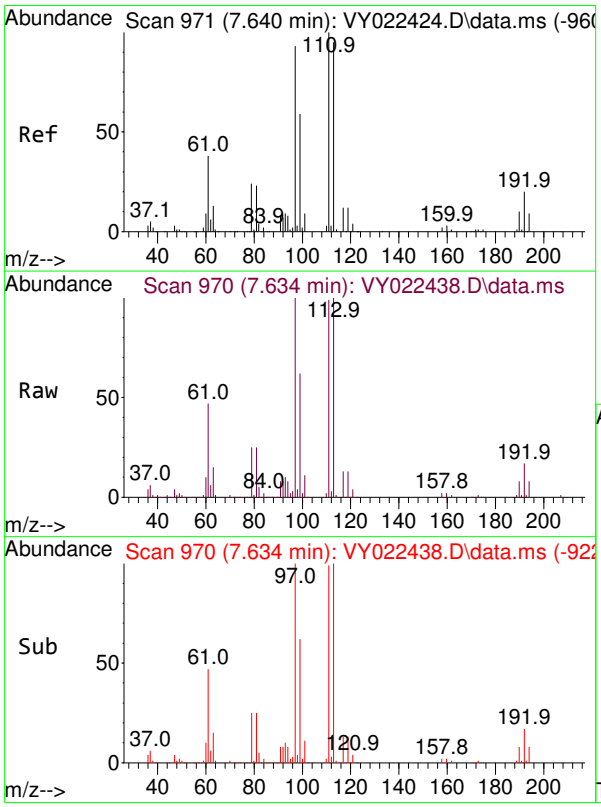


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion:114 Resp: 364513

Ion	Ratio	Lower	Upper
114	100		
63	20.2	0.0	42.6
88	15.2	0.0	29.4





#35
Dibromofluoromethane
Concen: 51.926 ug/l
RT: 7.634 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion:113 Resp: 11084

Ion	Ratio	Lower	Upper
113	100		
111	104.4	82.4	123.6
192	18.4	15.2	22.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Amit Patel 05/28/2025
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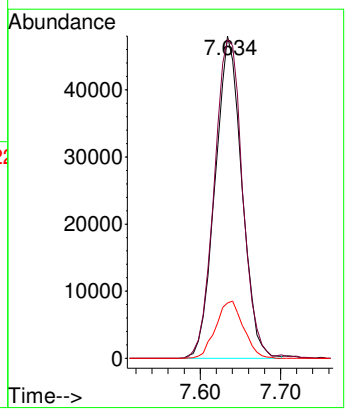
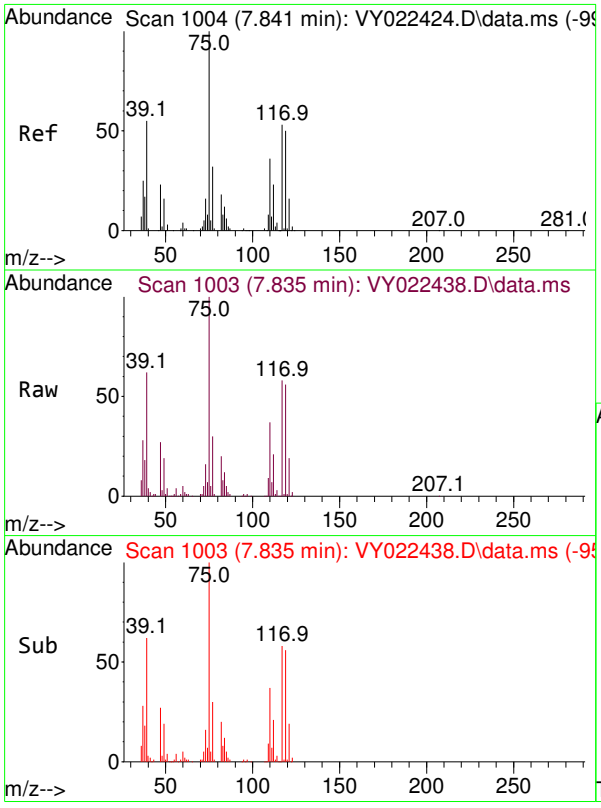
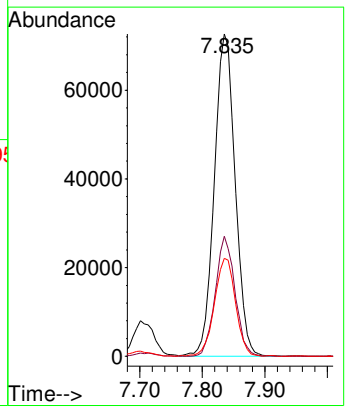


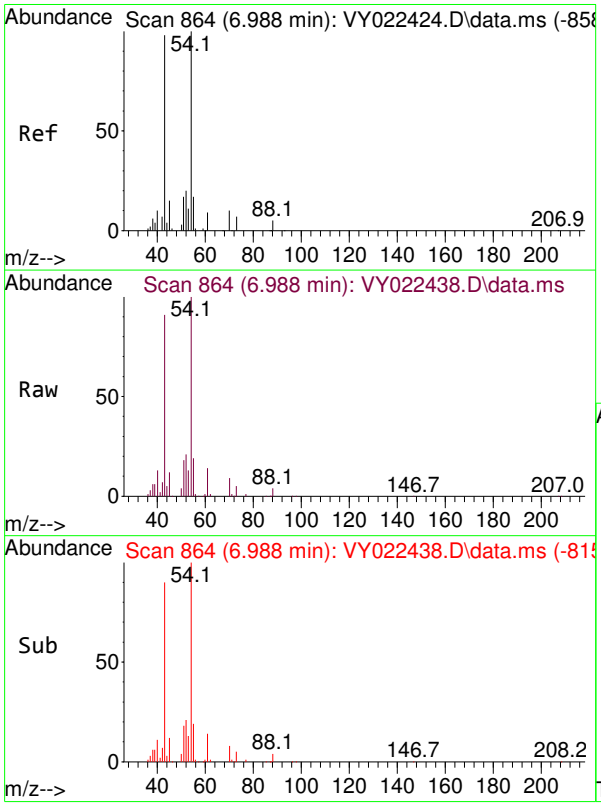


#36
1,1-Dichloropropene
Concen: 49.665 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 75 Resp: 168238

Ion	Ratio	Lower	Upper
75	100		
110	35.1	17.1	51.2
77	30.8	25.1	37.7





#37
Ethyl Acetate
Concen: 53.869 ug/l
RT: 6.988 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 43 Resp: 7755

Ion	Ratio	Lower	Upper
43	100		
61	15.1	11.7	17.5
70	9.3	7.8	11.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

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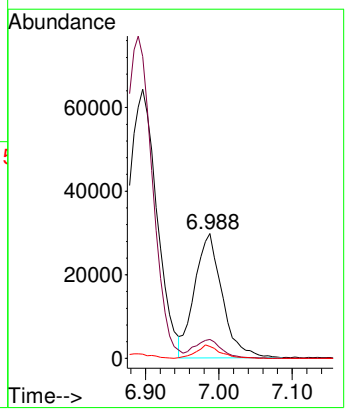
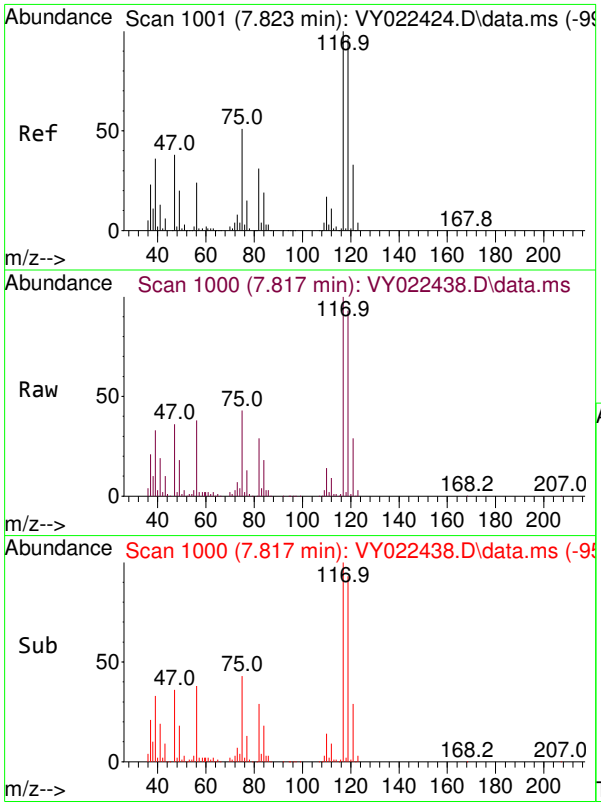
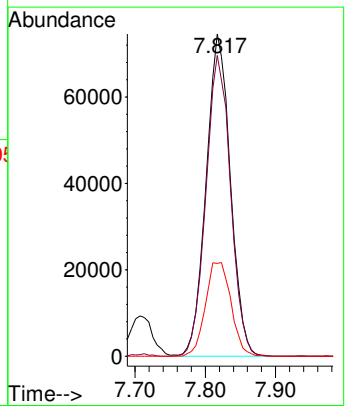


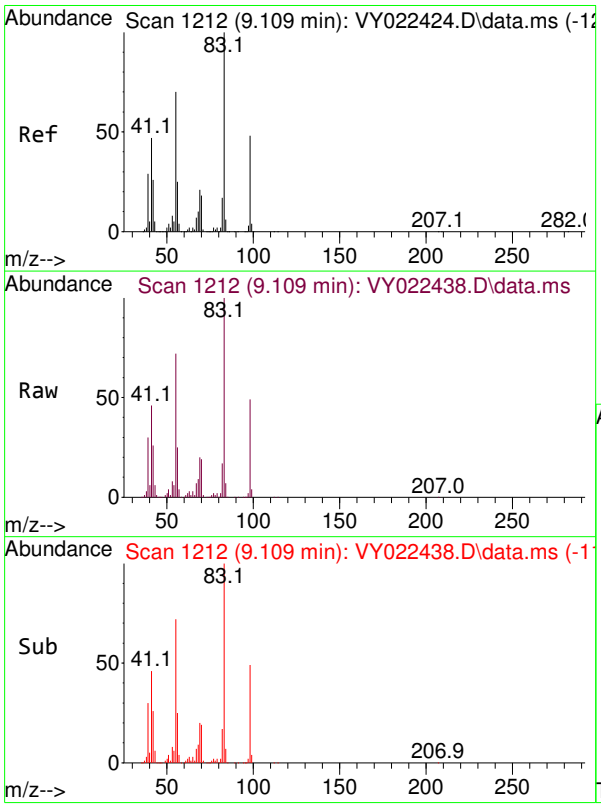


#38
Carbon Tetrachloride
Concen: 50.728 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion:117 Resp: 179005

Ion	Ratio	Lower	Upper
117	100		
119	93.3	76.3	114.5
121	28.8	26.1	39.1





#39
Methylcyclohexane
Concen: 48.915 ug/l
RT: 9.109 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 83 Resp: 22025

Ion	Ratio	Lower	Upper
83	100		
55	71.8	56.2	84.2
98	49.2	38.4	57.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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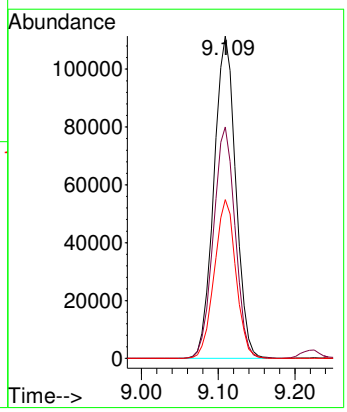
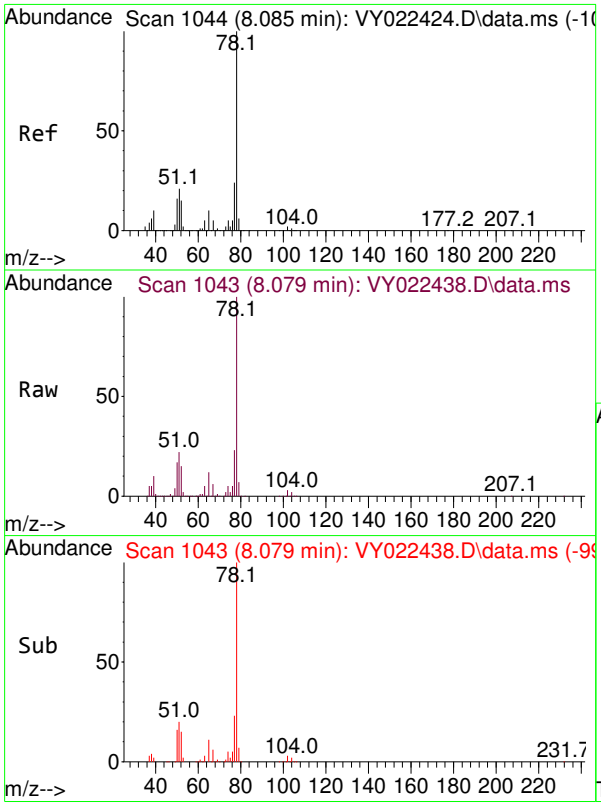
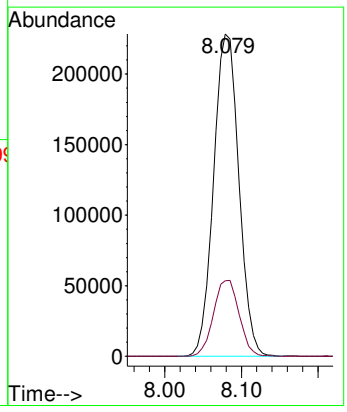


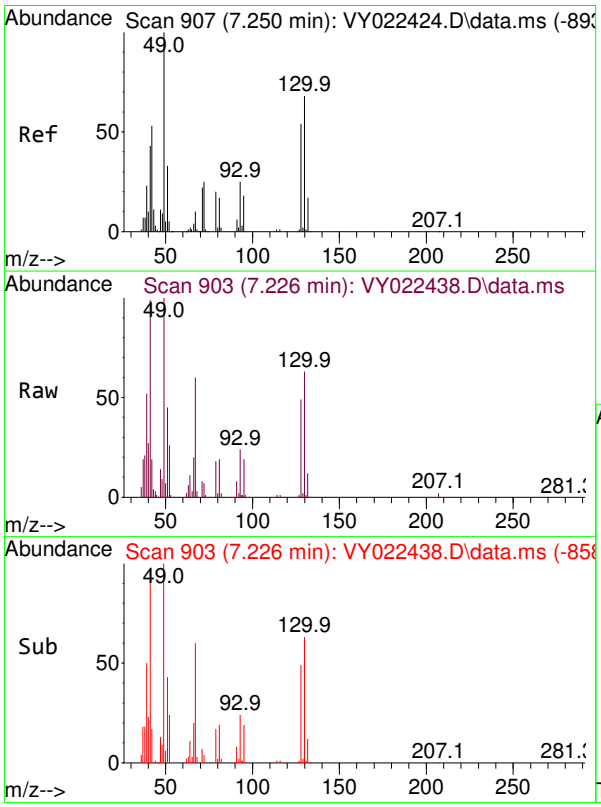


#40
Benzene
Concen: 51.884 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 78 Resp: 522962

Ion	Ratio	Lower	Upper
78	100		
77	23.4	19.4	29.2

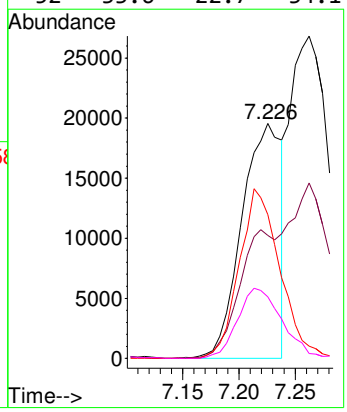




#41
Methacrylonitrile
Concen: 54.858 ug/l
RT: 7.226 min Scan# 9
Delta R.T. -0.024 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 41 Resp: 4793

Ion	Ratio	Lower	Upper
41	100		
39	49.3	40.4	60.6
67	73.9	53.0	79.4
52	33.6	22.7	34.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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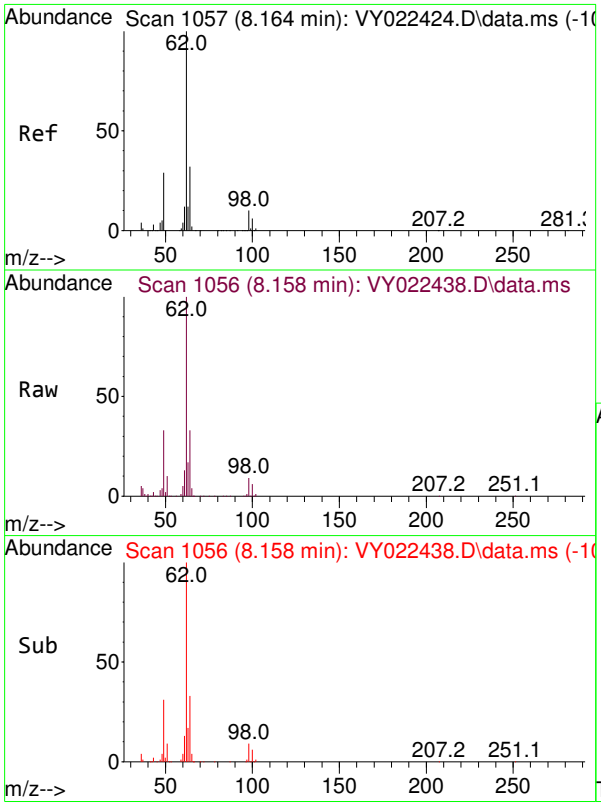
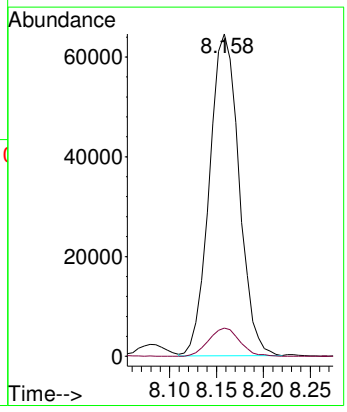
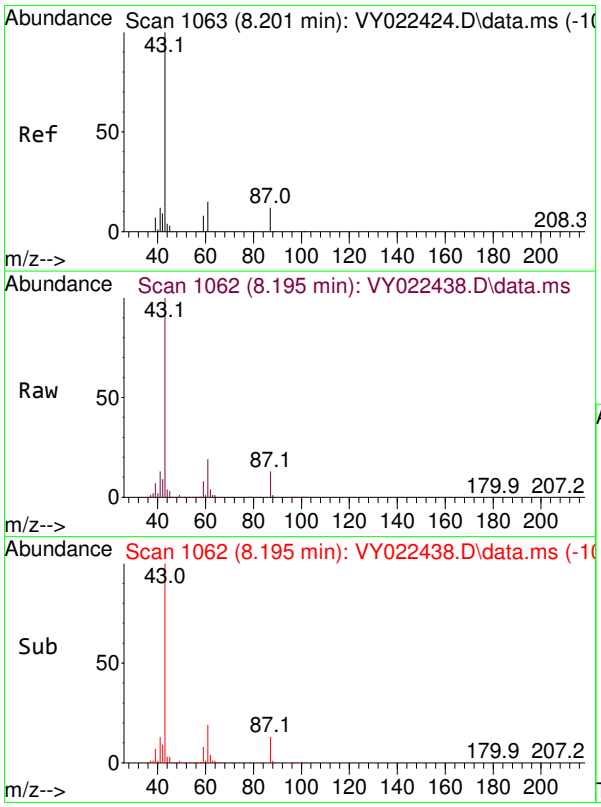


#42
1,2-Dichloroethane
Concen: 53.251 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 62 Resp: 141760

Ion	Ratio	Lower	Upper
62	100		
98	9.2	0.0	18.4





#43
Isopropyl Acetate
Concen: 55.374 ug/l
RT: 8.195 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 43 Resp: 17419

Ion	Ratio	Lower	Upper
43	100		
61	19.2	15.4	23.0
87	13.5	10.6	15.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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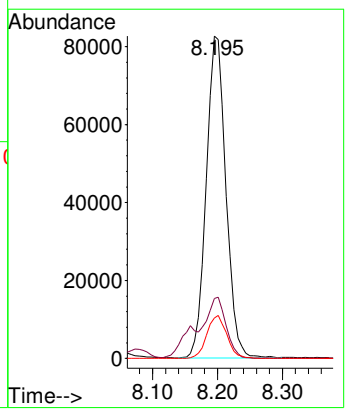
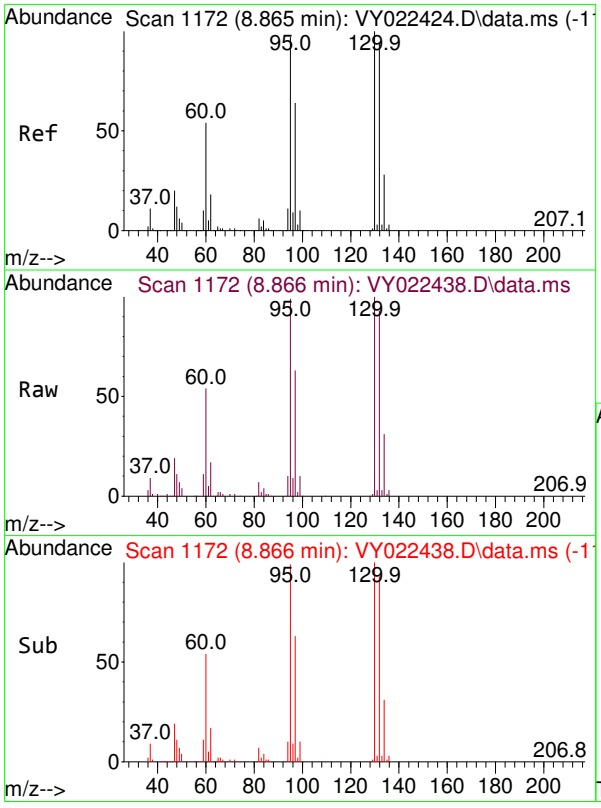
Supervised By :Mahesh Dadoda 05/28/2025

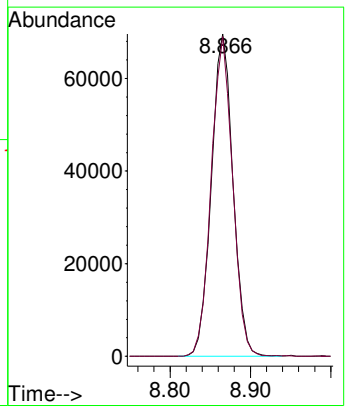


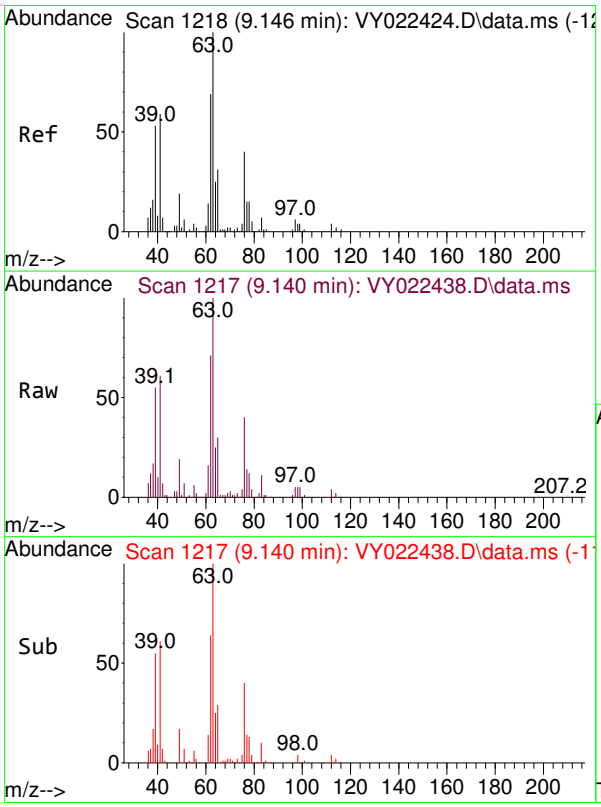


#44
Trichloroethene
Concen: 52.154 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. 0.000 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion:130 Resp: 129953

Ion	Ratio	Lower	Upper
130	100		
95	99.1	0.0	194.8





#45
1,2-Dichloropropane
Concen: 52.819 ug/l
RT: 9.140 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 63 Resp: 12508

Ion	Ratio	Lower	Upper
63	100		
65	30.2	25.1	37.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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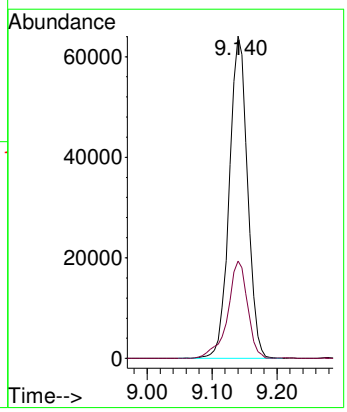
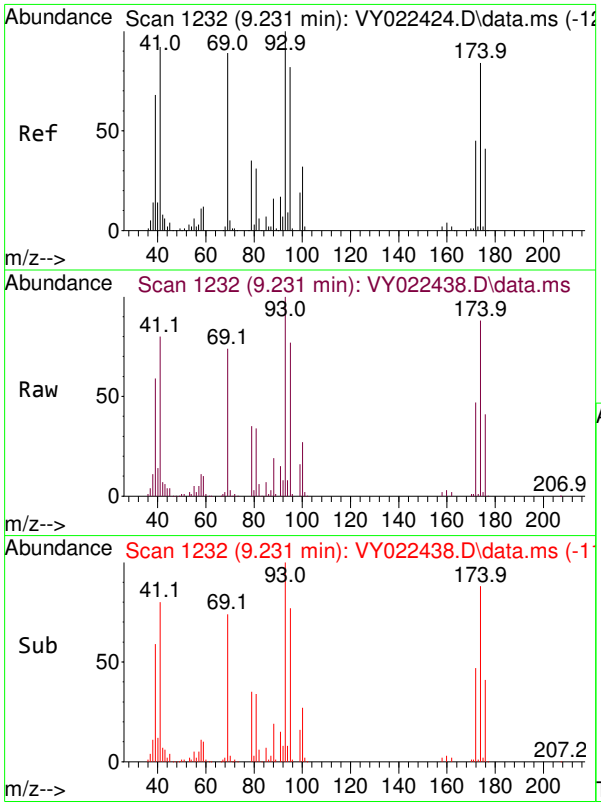
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

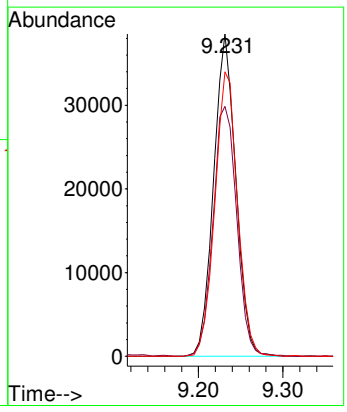


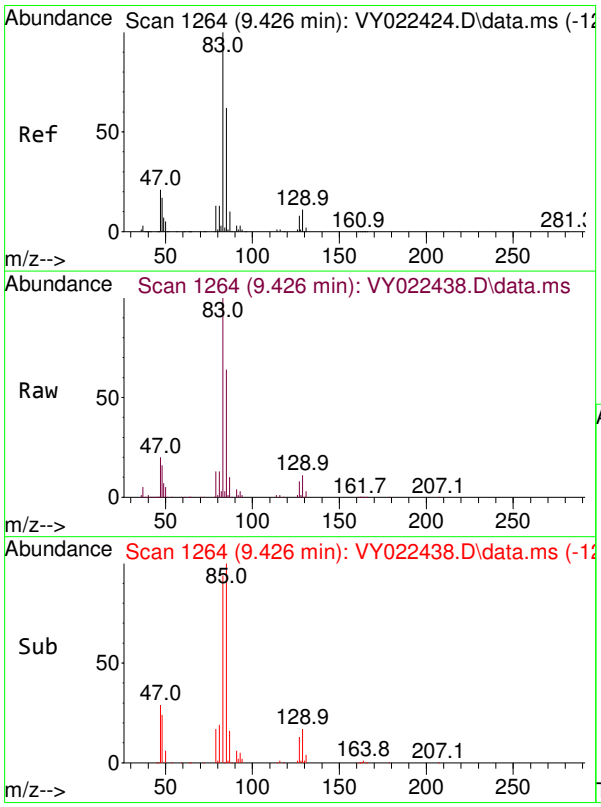


#46
Dibromomethane
Concen: 53.469 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.000 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 93 Resp: 70737

Ion	Ratio	Lower	Upper
93	100		
95	82.8	66.2	99.2
174	90.2	71.1	106.7





#47
Bromodichloromethane
Concen: 52.966 ug/l
RT: 9.426 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 83 Resp: 18019

Ion	Ratio	Lower	Upper
83	100		
85	64.4	49.8	74.6
127	8.2	6.6	9.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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Reviewed By :Amit Patel 05/28/2025
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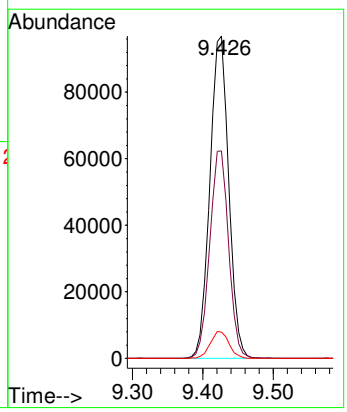
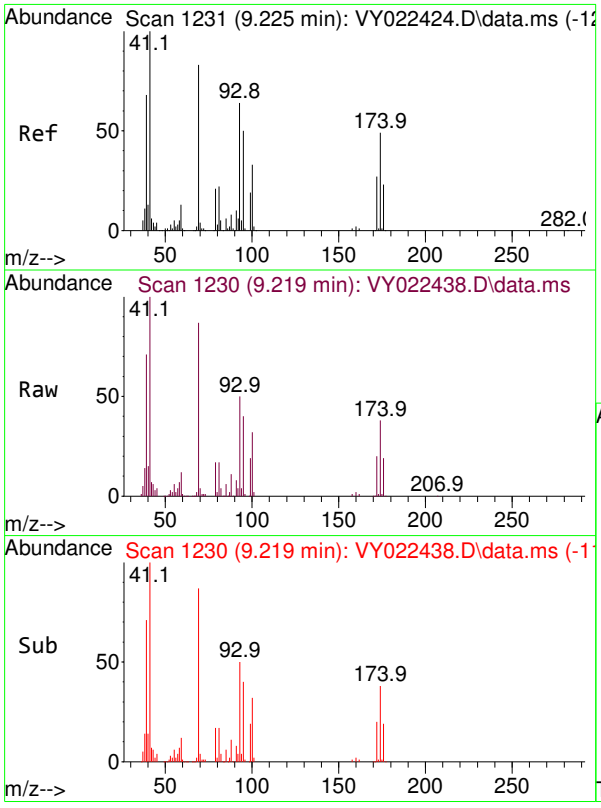
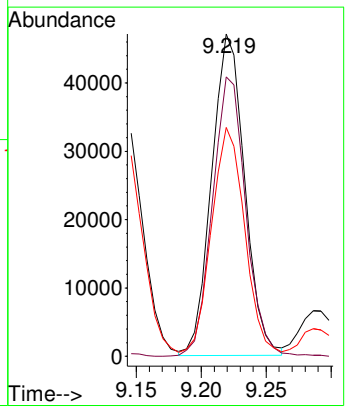


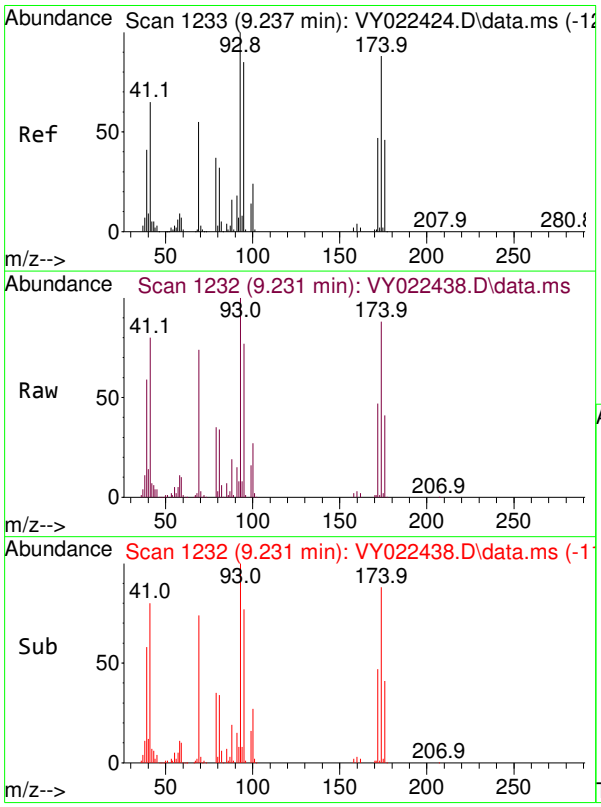


#48
Methyl methacrylate
Concen: 56.964 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 41 Resp: 83183

Ion	Ratio	Lower	Upper
41	100		
69	87.8	70.3	105.5
39	69.7	55.4	83.0





#49
1,4-Dioxane
Concen: 1243.469 ug/l
RT: 9.231 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 88 Resp: 1817

Ion	Ratio	Lower	Upper
88	100		
43	32.5	26.9	40.3
58	66.6	55.8	83.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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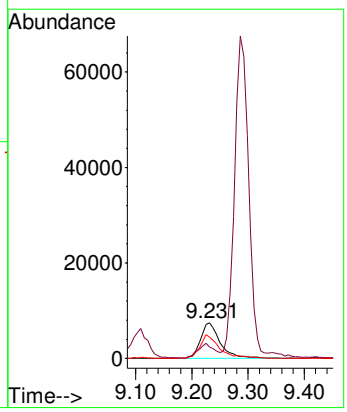
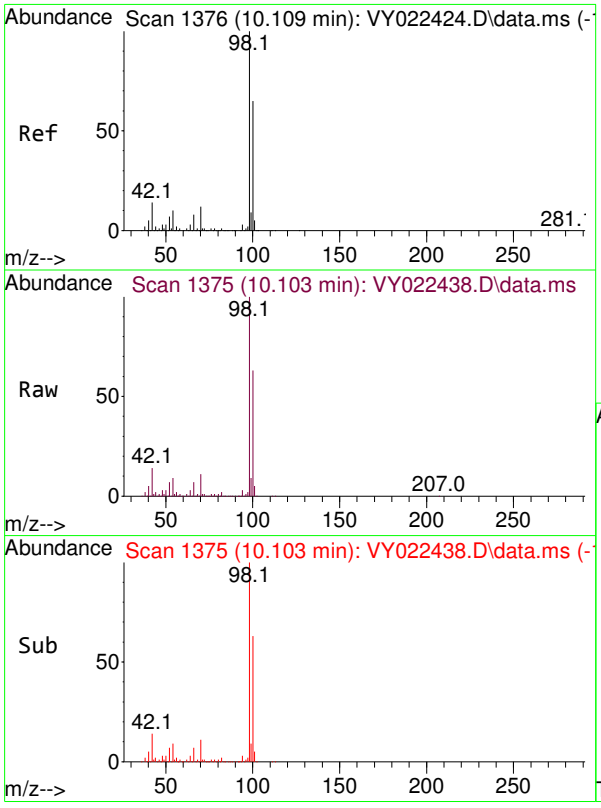
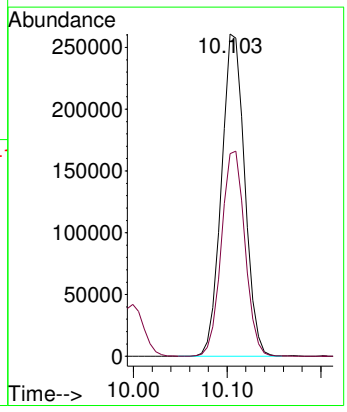


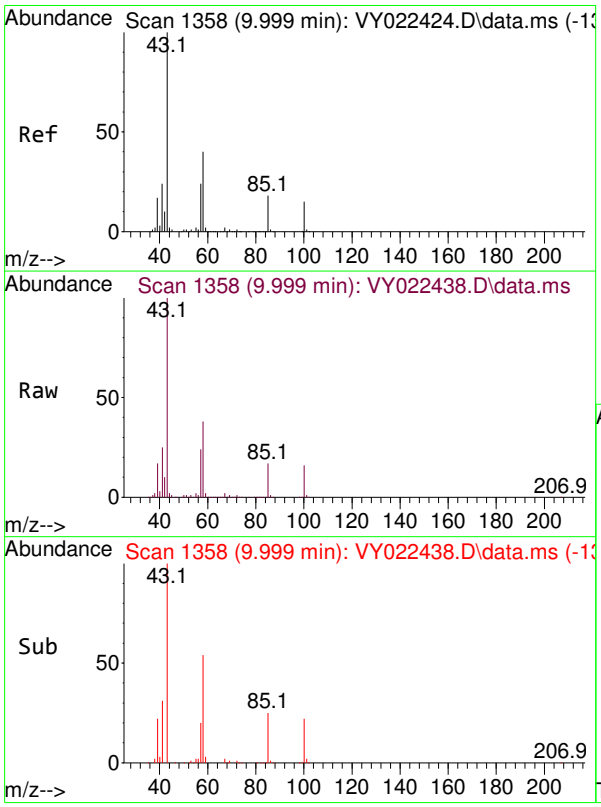


#50
Toluene-d8
Concen: 51.398 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 98 Resp: 447277

Ion	Ratio	Lower	Upper
98	100		
100	64.4	52.2	78.2





#51
4-Methyl-2-Pentanone
Concen: 292.551 ug/l
RT: 9.999 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 43 Resp: 45408

Ion	Ratio	Lower	Upper
43	100		
58	38.8	31.2	46.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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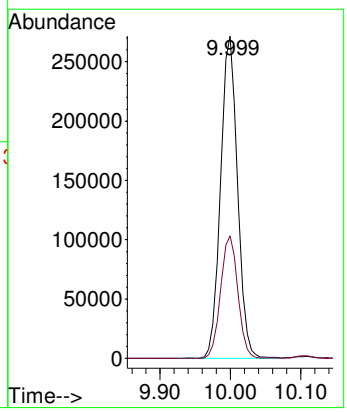
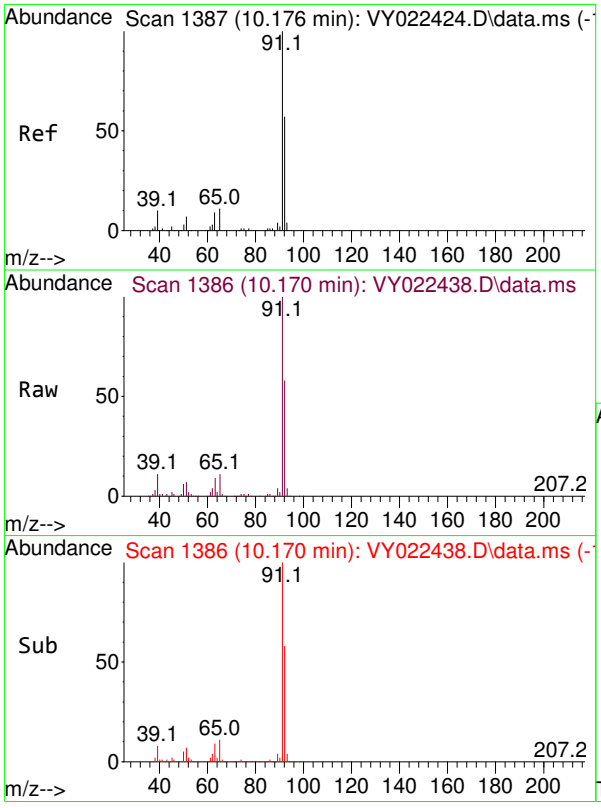
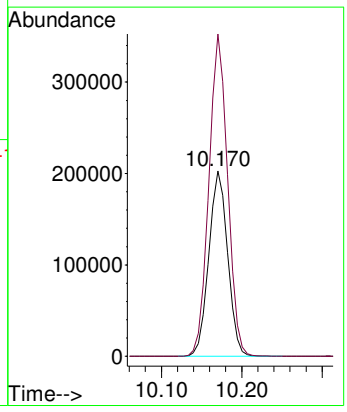


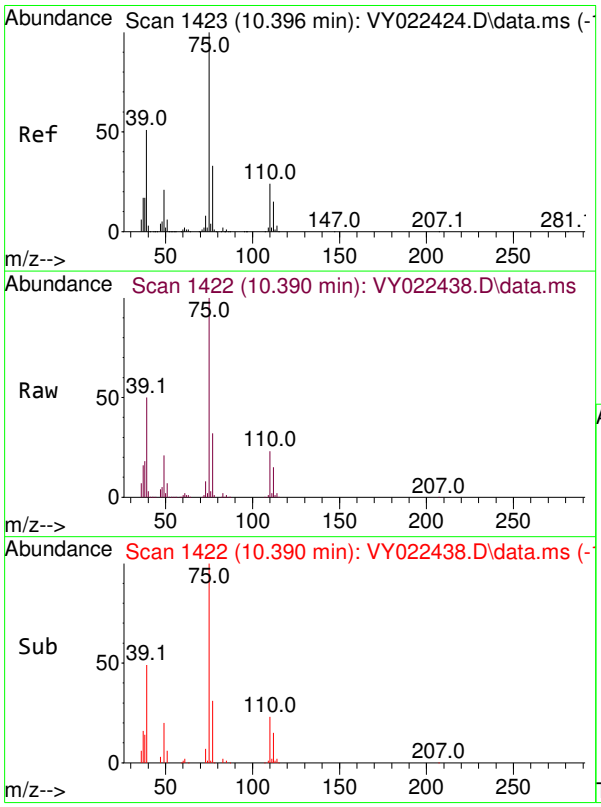


#52
Toluene
Concen: 52.475 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 92 Resp: 330369

Ion	Ratio	Lower	Upper
92	100		
91	172.7	139.8	209.6





#53
t-1,3-Dichloropropene
Concen: 52.902 ug/l
RT: 10.390 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 75 Resp: 16764

Ion	Ratio	Lower	Upper
75	100		
77	31.6	26.2	39.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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Reviewed By :Amit Patel 05/28/2025
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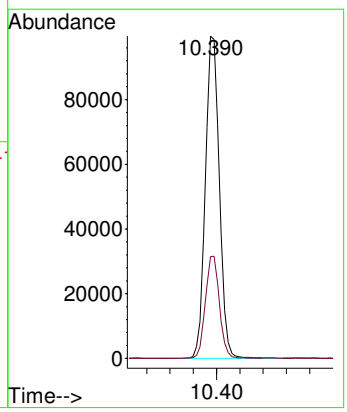
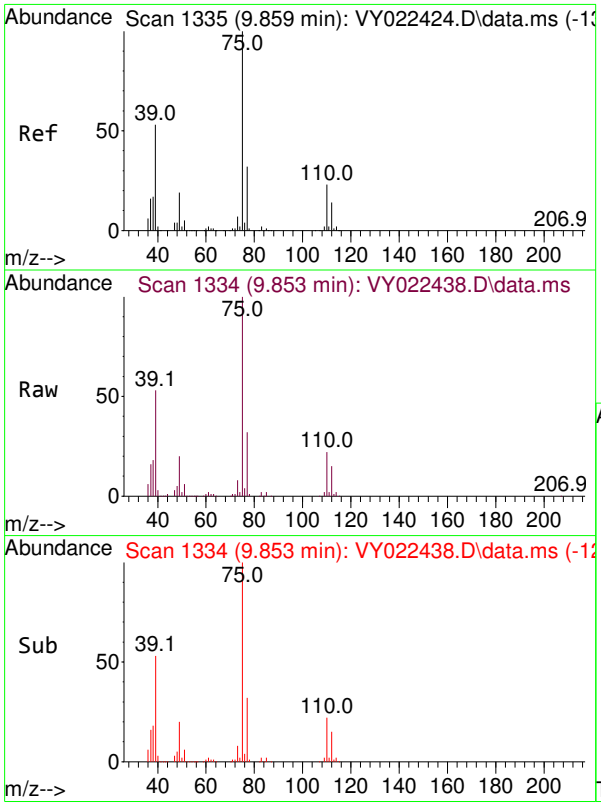
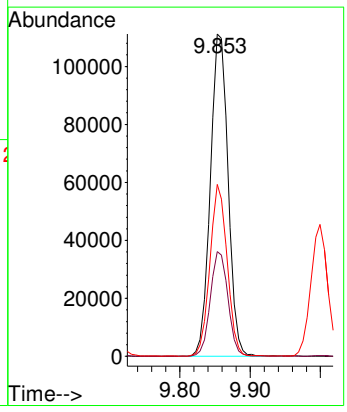


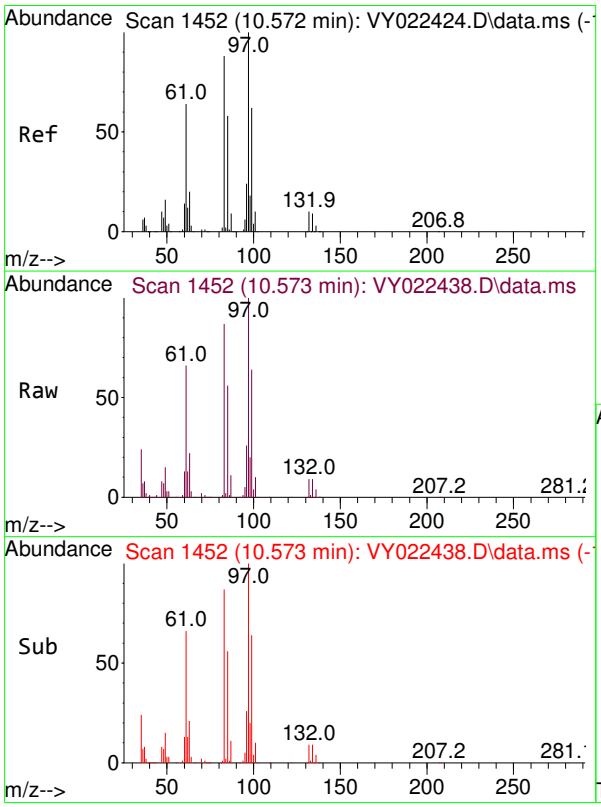


#54
cis-1,3-Dichloropropene
Concen: 52.274 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 75 Resp: 194643

Ion	Ratio	Lower	Upper
75	100		
77	32.5	25.4	38.2
39	53.3	42.5	63.7

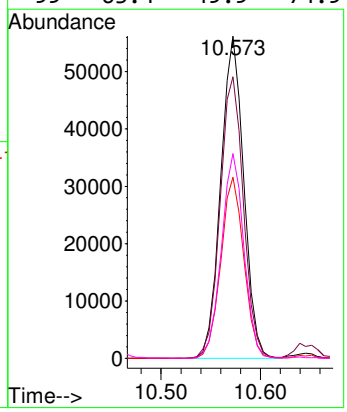




#55
1,1,2-Trichloroethane
Concen: 54.365 ug/l
RT: 10.573 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 97 Resp: 9093

Ion	Ratio	Lower	Upper
97	100		
83	87.4	70.2	105.4
85	56.2	46.1	69.1
99	63.4	49.9	74.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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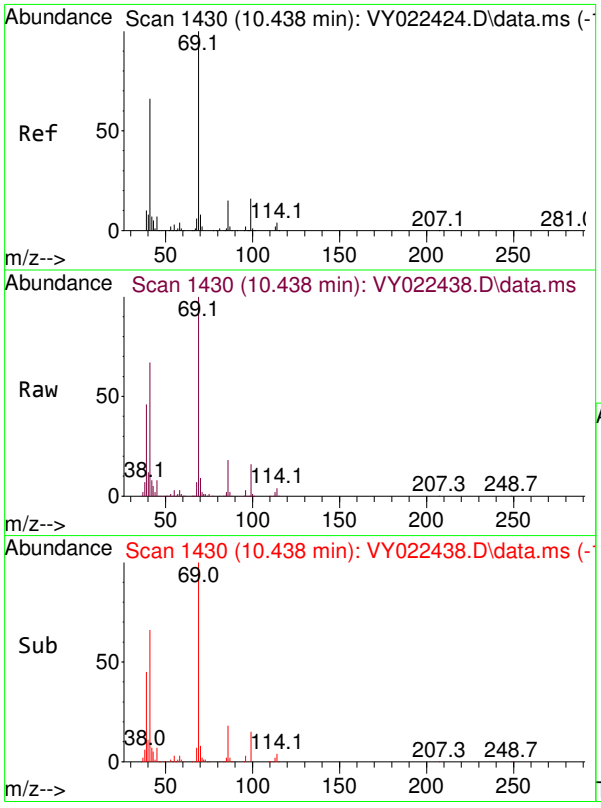
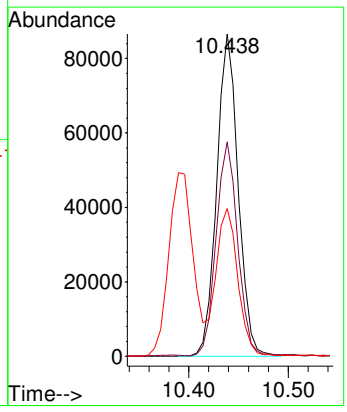
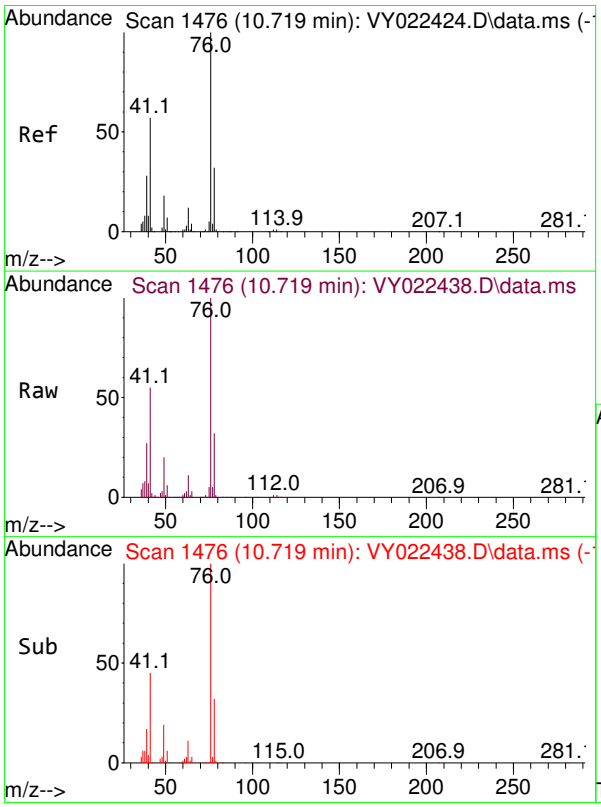


#56
Ethyl methacrylate
Concen: 54.468 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 69 Resp: 130742

Ion	Ratio	Lower	Upper
69	100		
41	67.1	51.2	76.8
39	47.1	35.2	52.8





#57
1,3-Dichloropropane
Concen: 54.362 ug/l
RT: 10.719 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 76 Resp: 16023

Ion	Ratio	Lower	Upper
76	100		
78	32.2	25.8	38.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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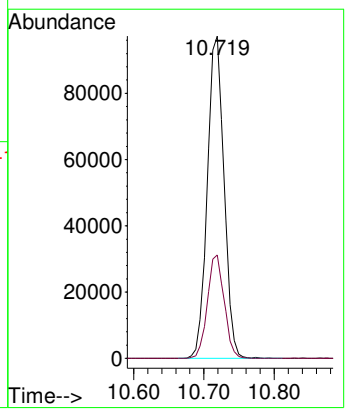
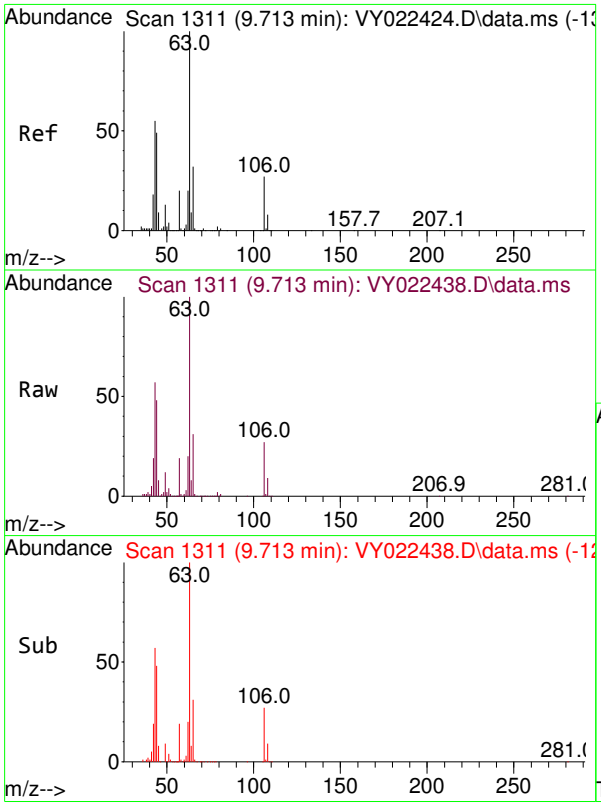
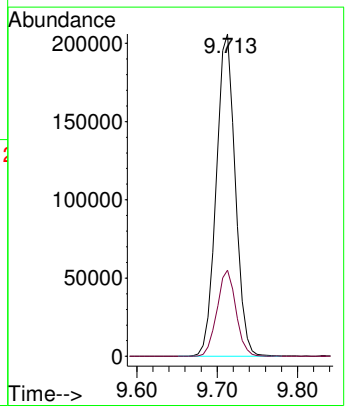


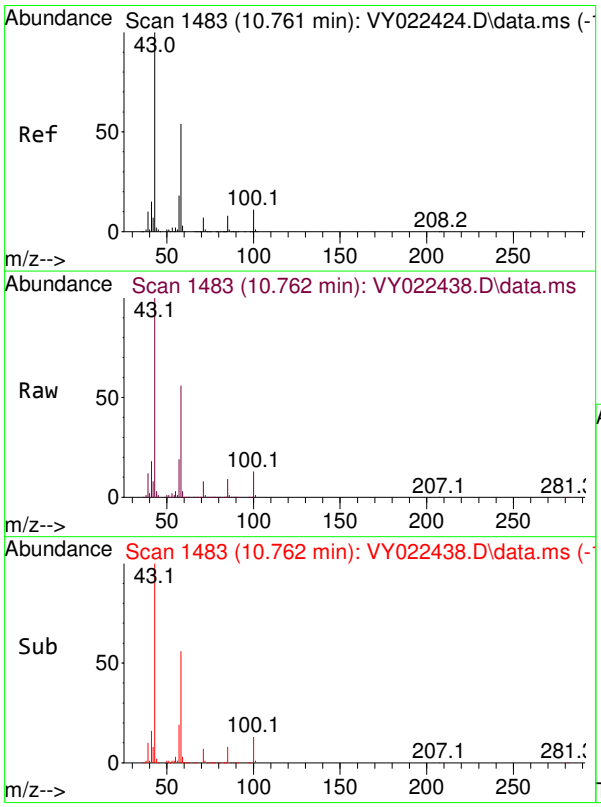


#58
2-Chloroethyl Vinyl ether
Concen: 282.246 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. 0.000 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 63 Resp: 337645

Ion	Ratio	Lower	Upper
63	100		
106	26.6	22.2	33.2





#59
2-Hexanone
Concen: 295.339 ug/l
RT: 10.762 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 43 Resp: 30041

Ion	Ratio	Lower	Upper
43	100		
58	55.4	27.1	81.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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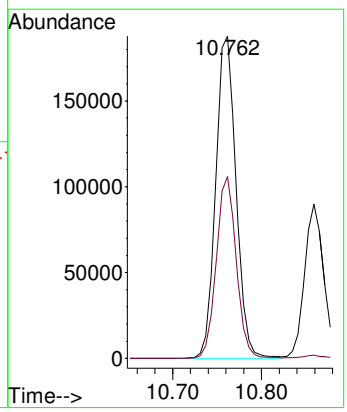
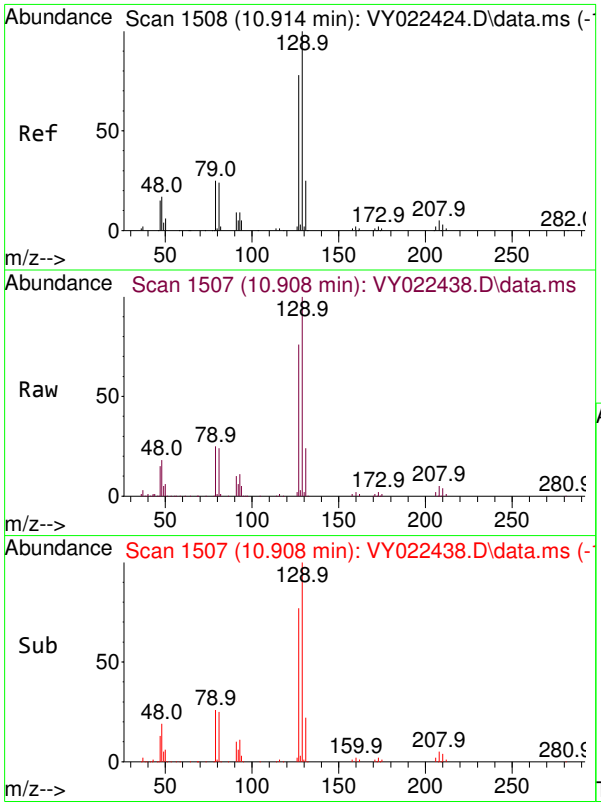
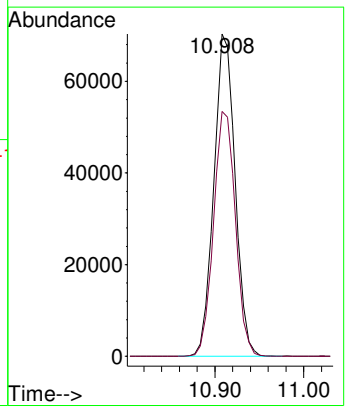


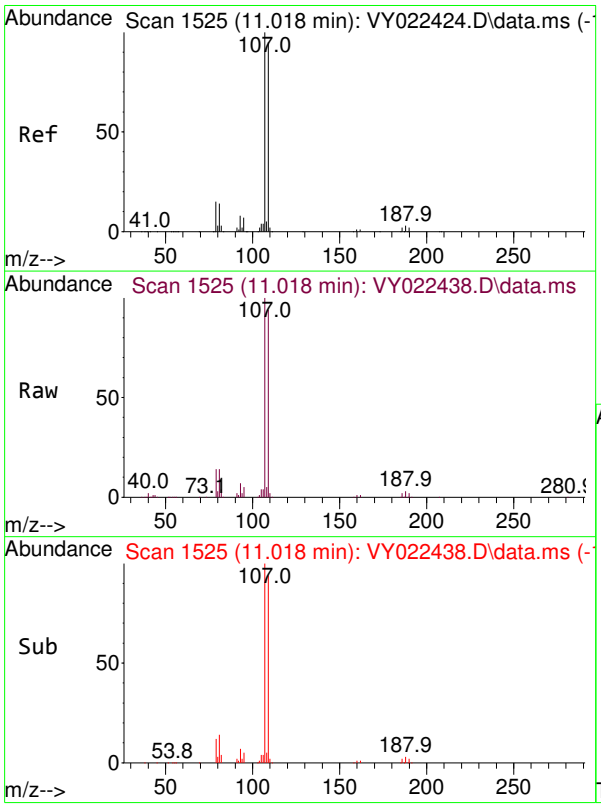


#60
Dibromochloromethane
Concen: 54.851 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion:129 Resp: 117196

Ion	Ratio	Lower	Upper
129	100		
127	78.4	38.3	114.8





#61
1,2-Dibromoethane
Concen: 55.550 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion:107 Resp: 8498

Ion	Ratio	Lower	Upper
107	100		
109	94.4	74.0	111.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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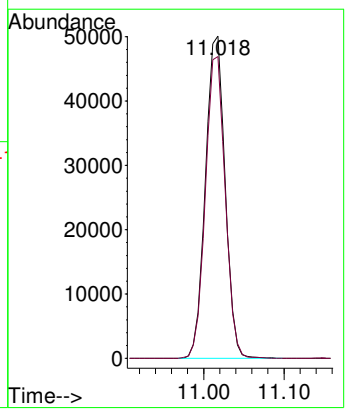
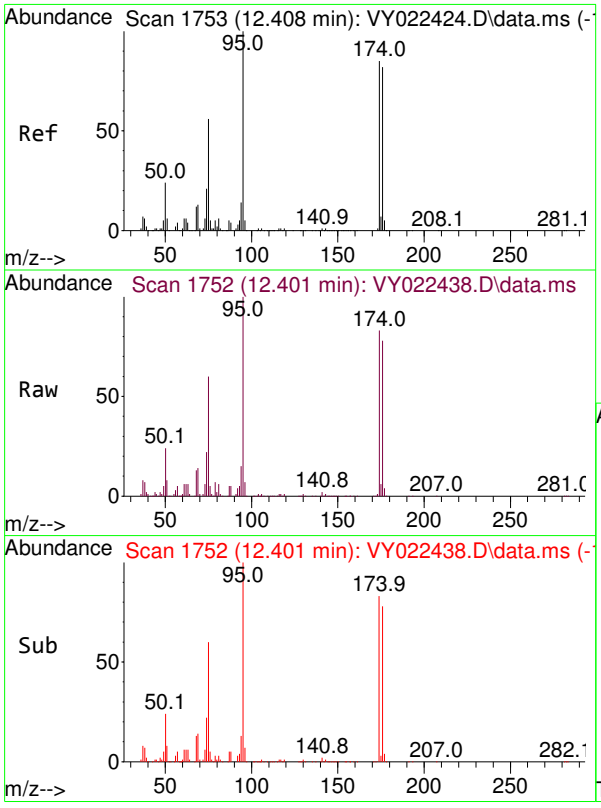
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

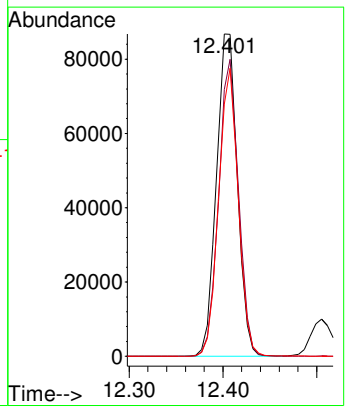


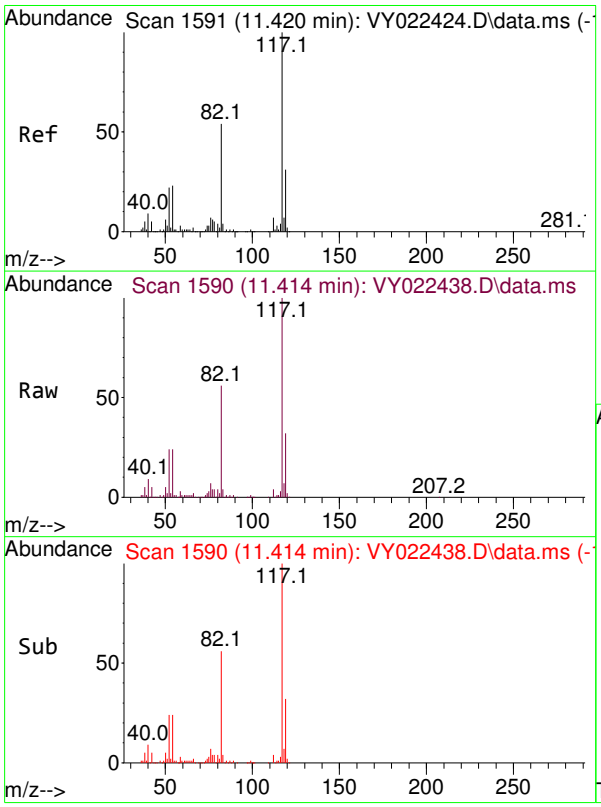


#62
4-Bromofluorobenzene
Concen: 50.890 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 95 Resp: 133956

Ion	Ratio	Lower	Upper
95	100		
174	87.5	0.0	171.6
176	84.0	0.0	164.6





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion:117 Resp: 31970

Ion	Ratio	Lower	Upper
117	100		
82	55.7	43.3	64.9
119	32.3	24.5	36.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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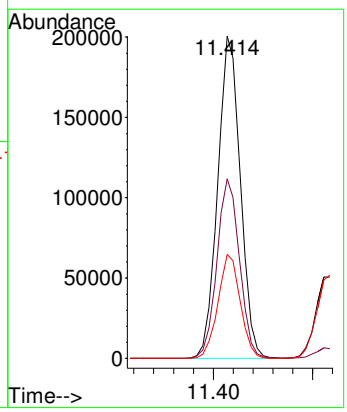
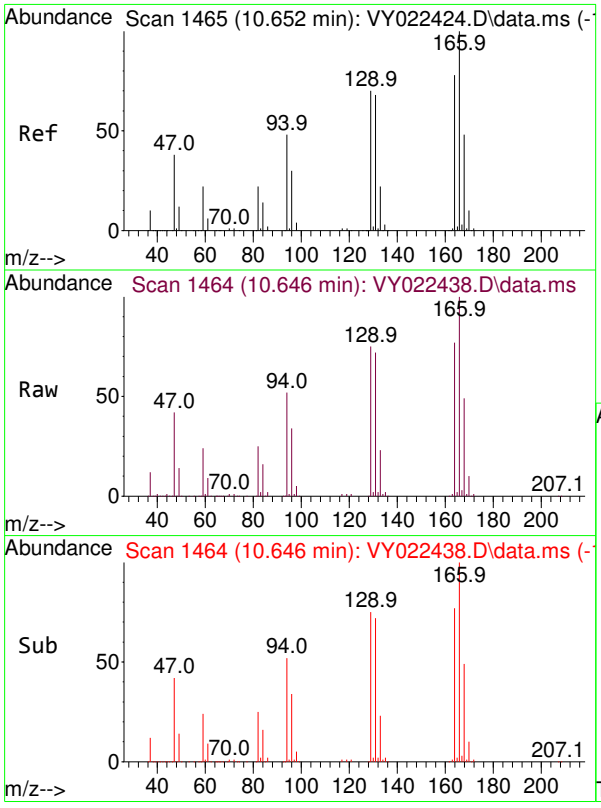
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

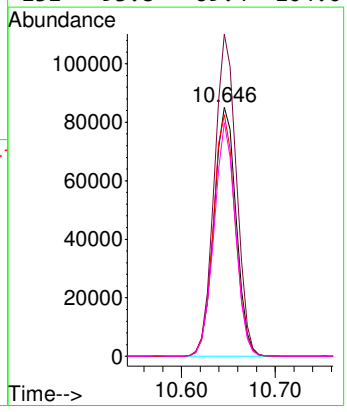


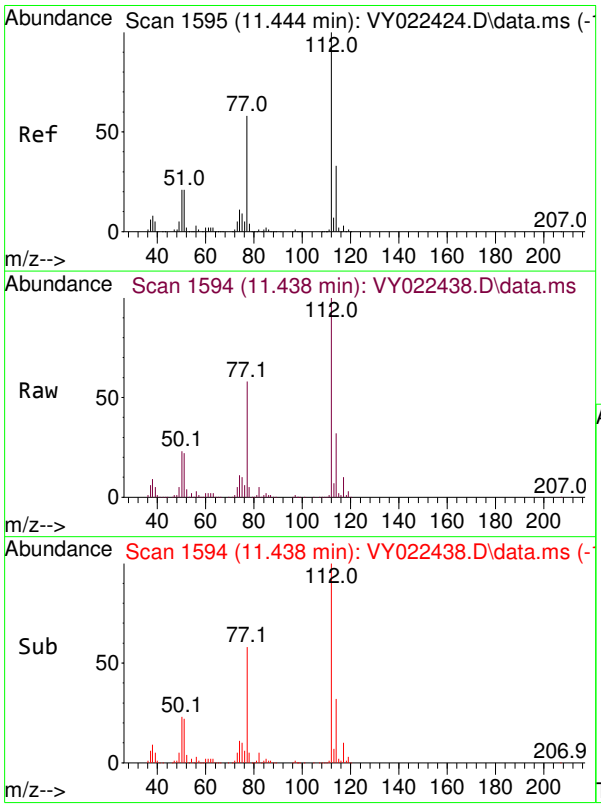


#64
Tetrachloroethene
Concen: 51.564 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion:164 Resp: 140398

Ion	Ratio	Lower	Upper
164	100		
166	129.4	102.0	153.0
129	97.0	71.3	106.9
131	93.8	69.4	104.0





#65
Chlorobenzene
Concen: 51.070 ug/l
RT: 11.438 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion:112 Resp: 34814

Ion	Ratio	Lower	Upper
112	100		
114	32.2	26.1	39.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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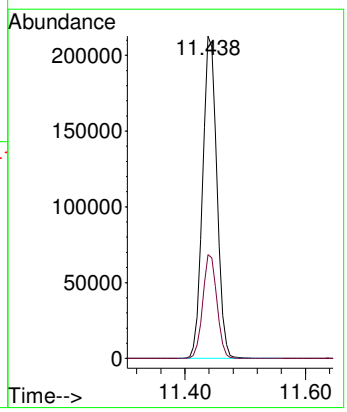
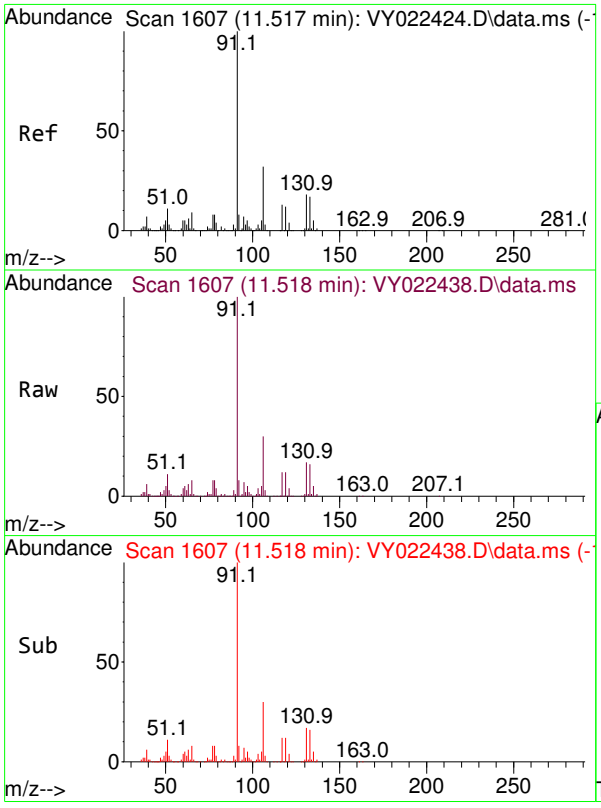
Supervised By :Mahesh Dadoda 05/28/2025

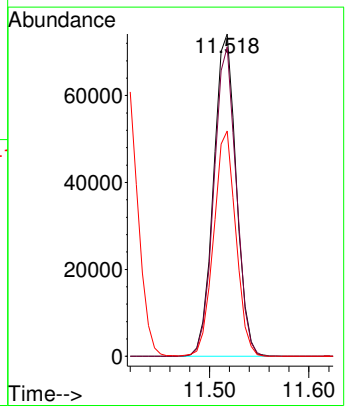


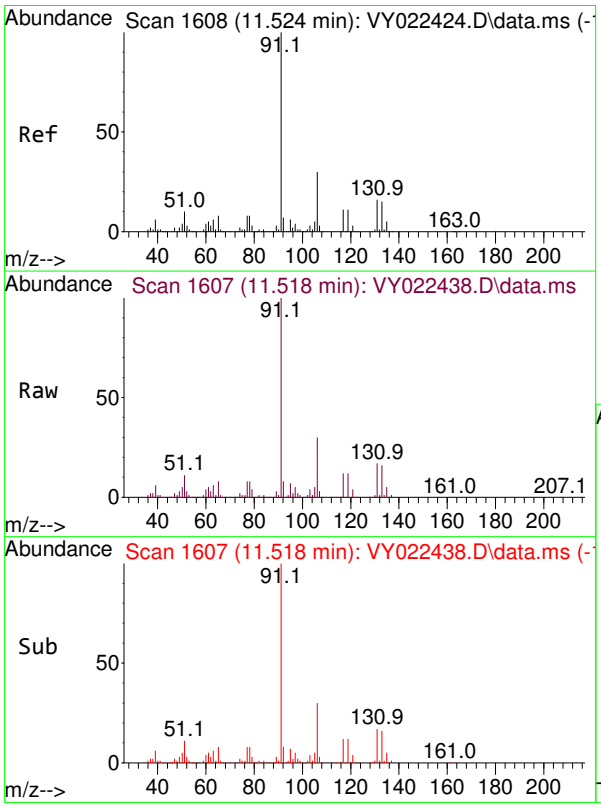


#66
1,1,1,2-Tetrachloroethane
Concen: 51.150 ug/l
RT: 11.518 min Scan# 1607
Delta R.T. 0.000 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion:131 Resp: 118142

Ion	Ratio	Lower	Upper
131	100		
133	95.0	46.6	139.8
119	68.5	33.3	99.8





#67
Ethyl Benzene
Concen: 50.620 ug/l
RT: 11.518 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 91 Resp: 64074

Ion	Ratio	Lower	Upper
91	100		
106	29.9	24.4	36.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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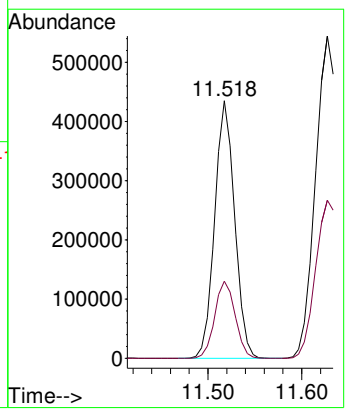
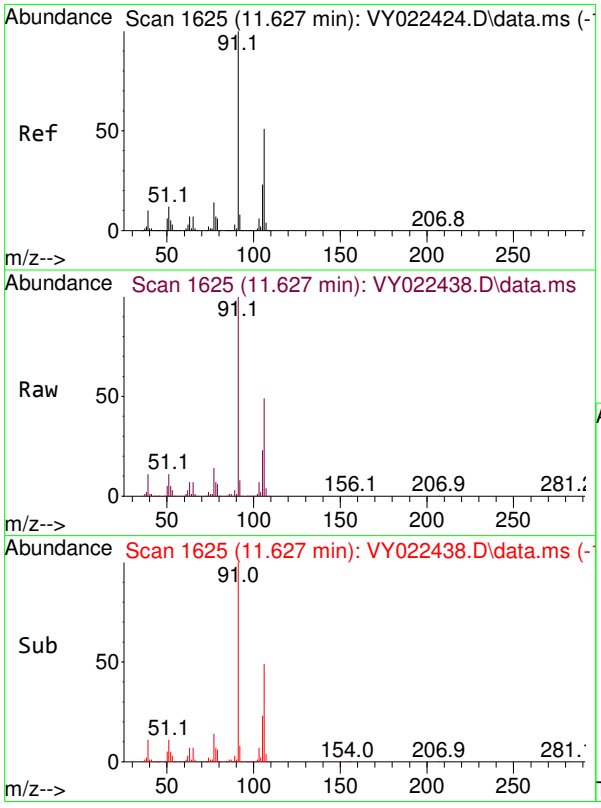
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

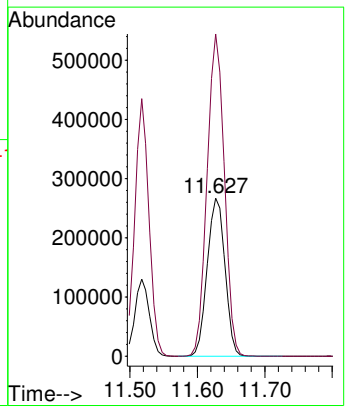


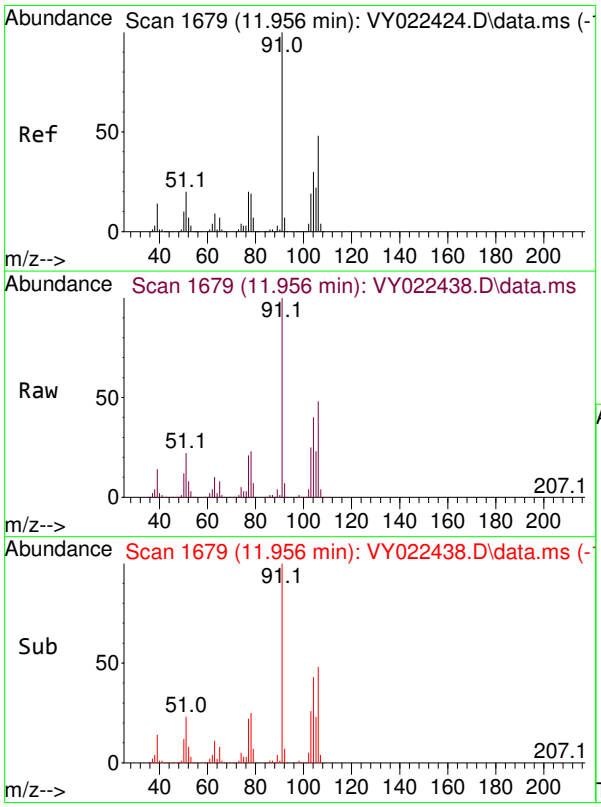


#68
m/p-Xylenes
Concen: 101.074 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.000 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion:106 Resp: 485062

Ion	Ratio	Lower	Upper
106	100		
91	198.6	159.8	239.8

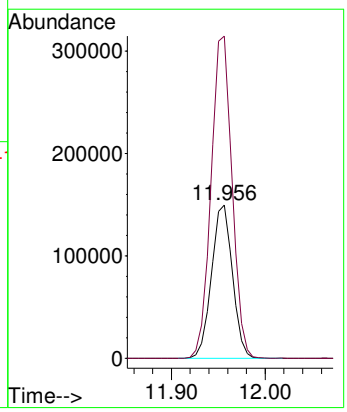




#69
o-Xylene
Concen: 51.375 ug/l
RT: 11.956 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion:106 Resp: 23172

Ion	Ratio	Lower	Upper
106	100		
91	211.1	106.3	318.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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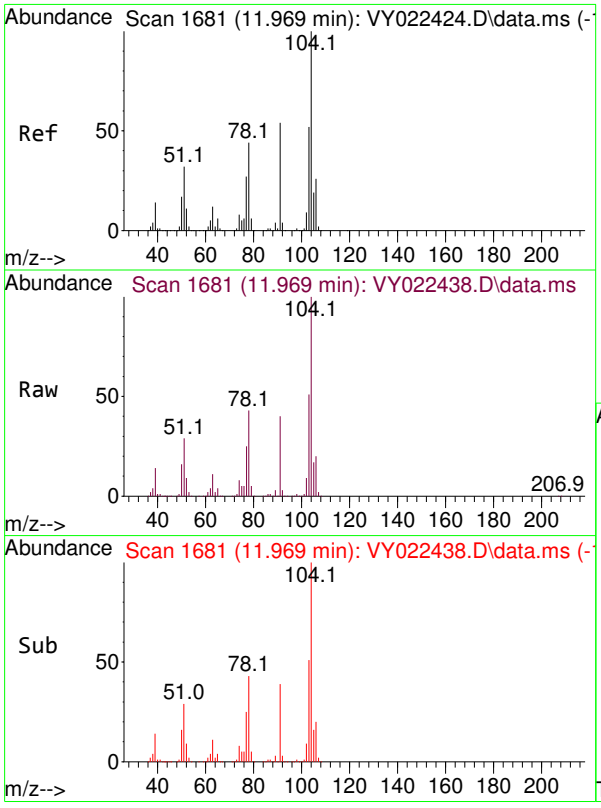
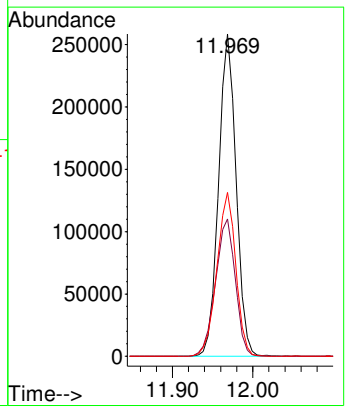
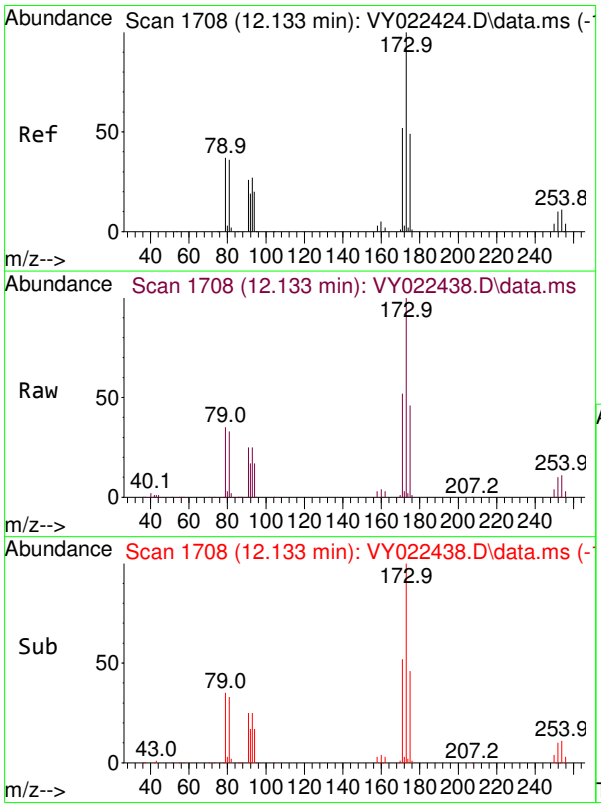


#70
Styrene
Concen: 52.127 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion:104 Resp: 391490

Ion	Ratio	Lower	Upper
104	100		
78	48.1	38.8	58.2
103	54.9	43.4	65.2





#71
Bromoform
Concen: 53.724 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion:173 Resp: 6499

Ion	Ratio	Lower	Upper
173	100		
175	47.8	24.3	73.0
254	0.0	0.1	0.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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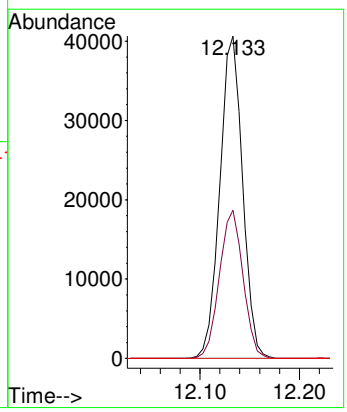
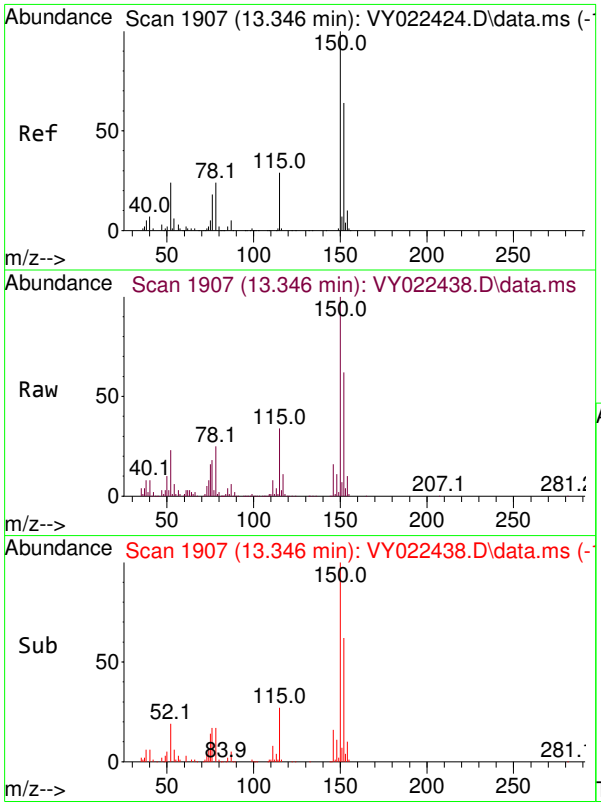
Supervised By :Mahesh Dadoda 05/28/2025

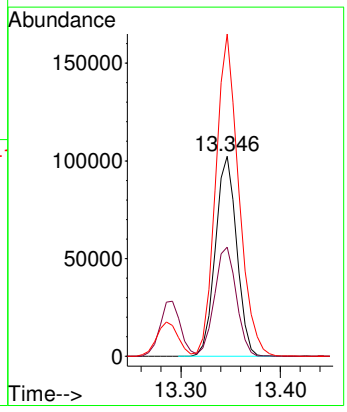


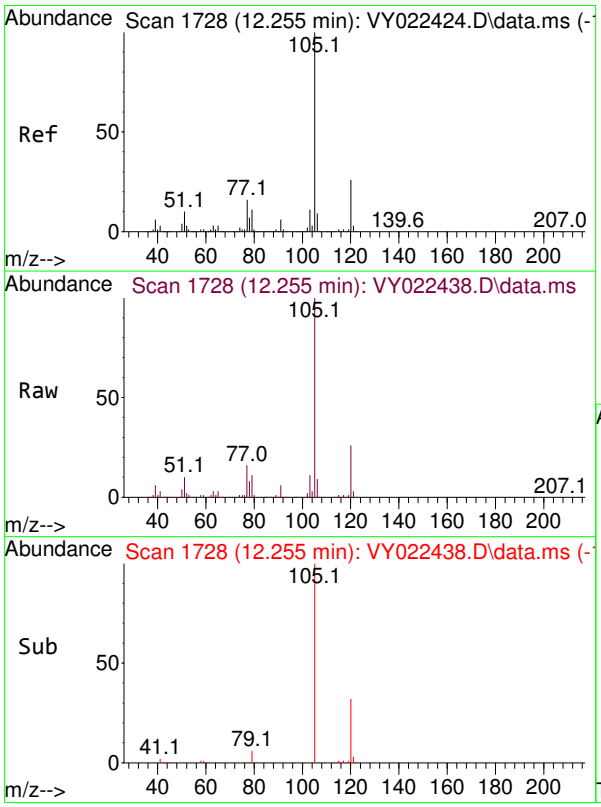


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion:152 Resp: 153246

Ion	Ratio	Lower	Upper
152	100		
115	56.2	28.4	85.3
150	174.3	0.0	345.8





#73
Isopropylbenzene
Concen: 48.816 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion:105 Resp: 5887

Ion	Ratio	Lower	Upper
105	100		
120	26.2	13.2	39.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
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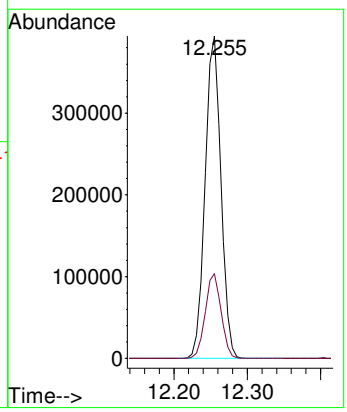
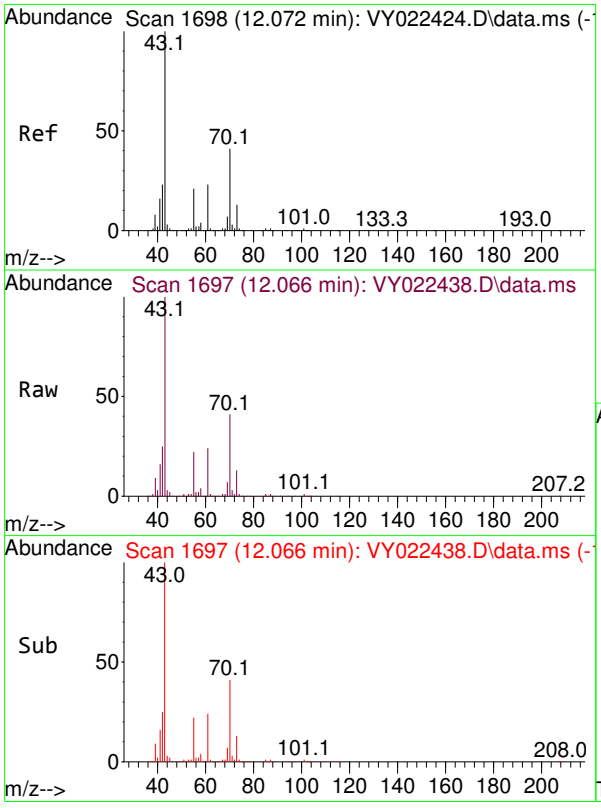
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

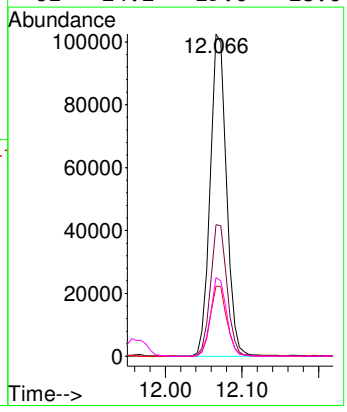


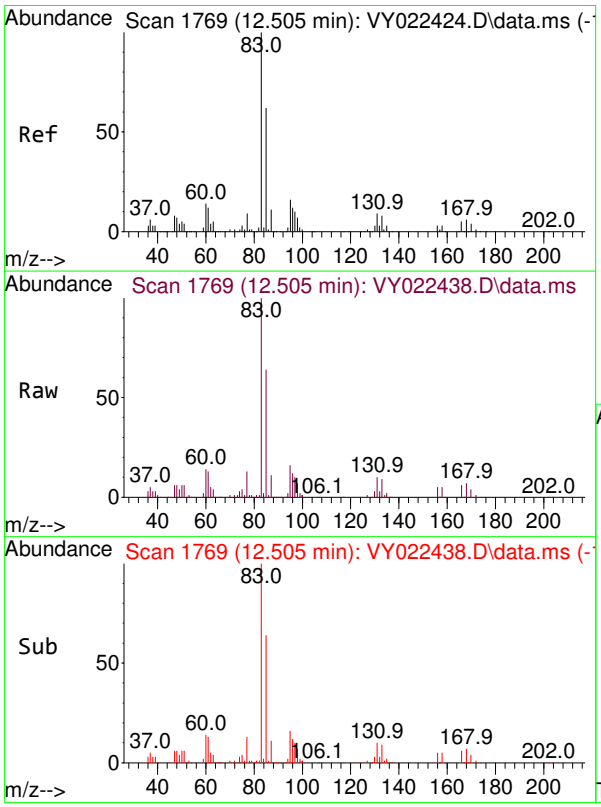


#74
N-amyl acetate
Concen: 51.341 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 43 Resp: 151521

Ion	Ratio	Lower	Upper
43	100		
70	41.5	33.0	49.4
55	22.2	17.5	26.3
61	24.2	19.0	28.6





#75
1,1,2,2-Tetrachloroethane
Concen: 52.620 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 83 Resp: 9999

Ion	Ratio	Lower	Upper
83	100		
131	9.8	4.8	14.4
85	62.3	32.0	96.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Amit Patel 05/28/2025
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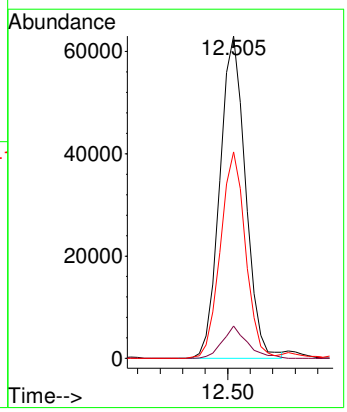
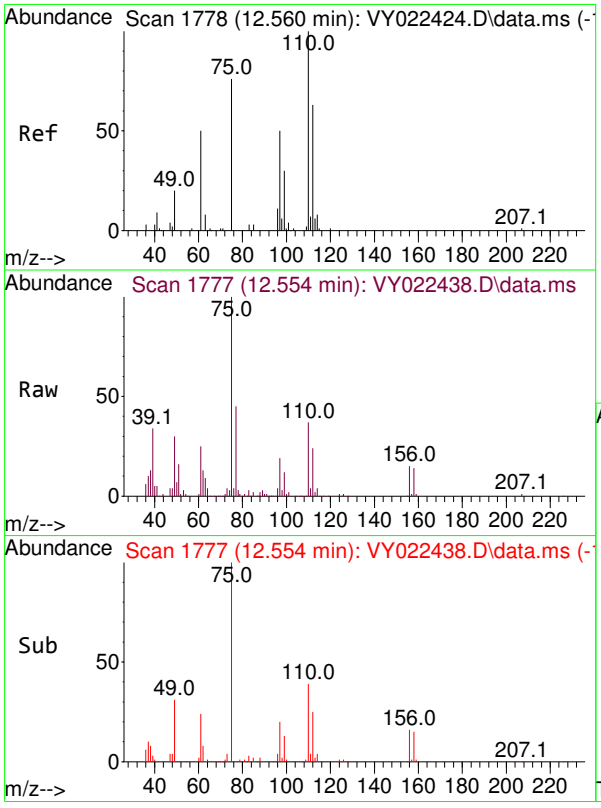
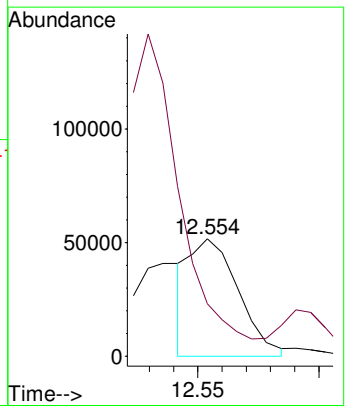


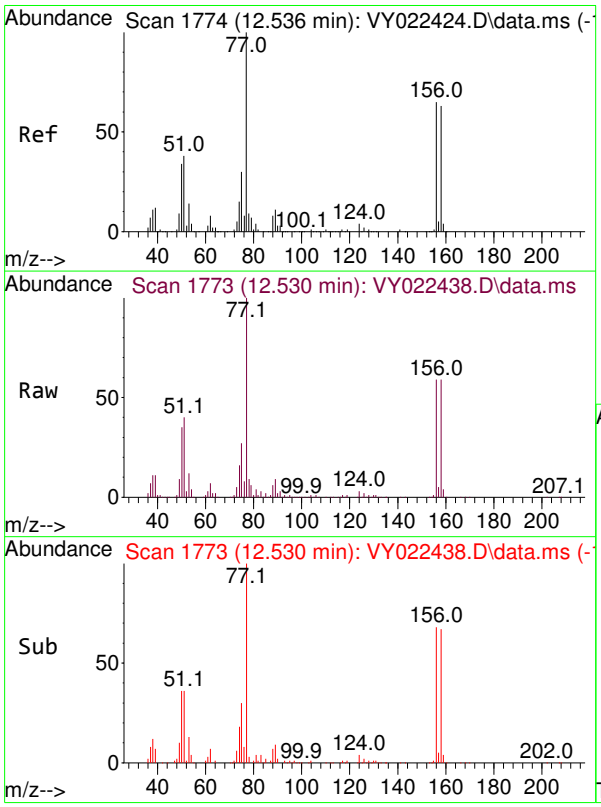


#76
1,2,3-Trichloropropane
Concen: 47.286 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 75 Resp: 72584

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0





#77
Bromobenzene
Concen: 49.317 ug/l
RT: 12.530 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion:156 Resp: 12800

Ion	Ratio	Lower	Upper
156	100		
77	187.8	91.4	274.2
158	98.4	48.1	144.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Amit Patel 05/28/2025
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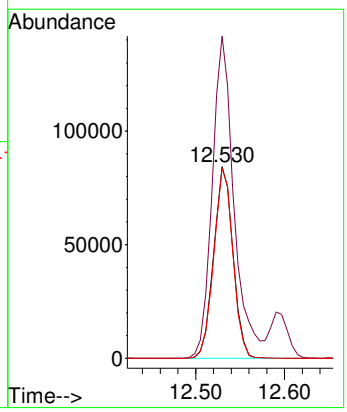
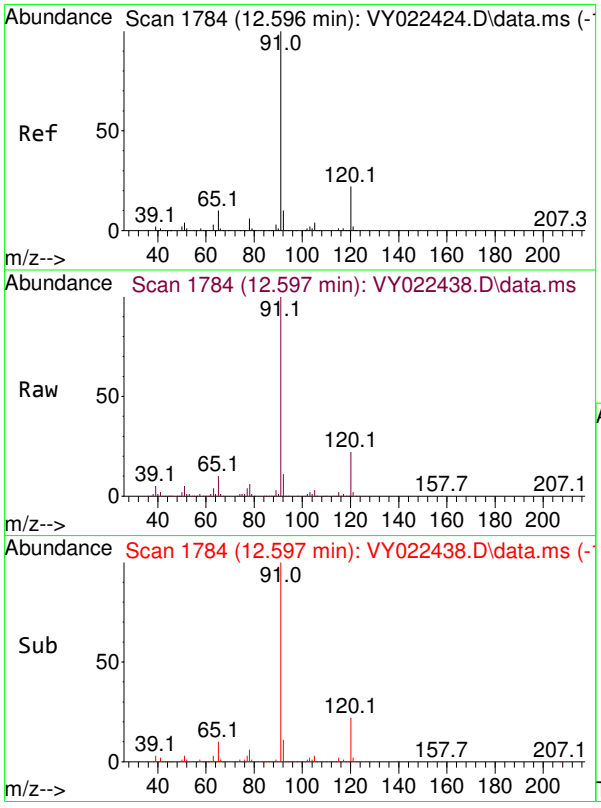
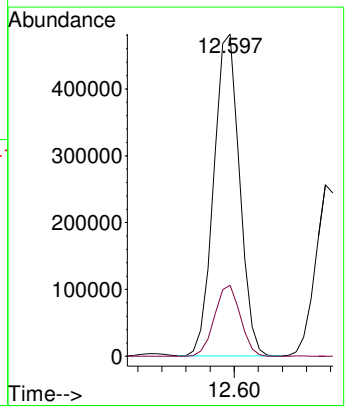


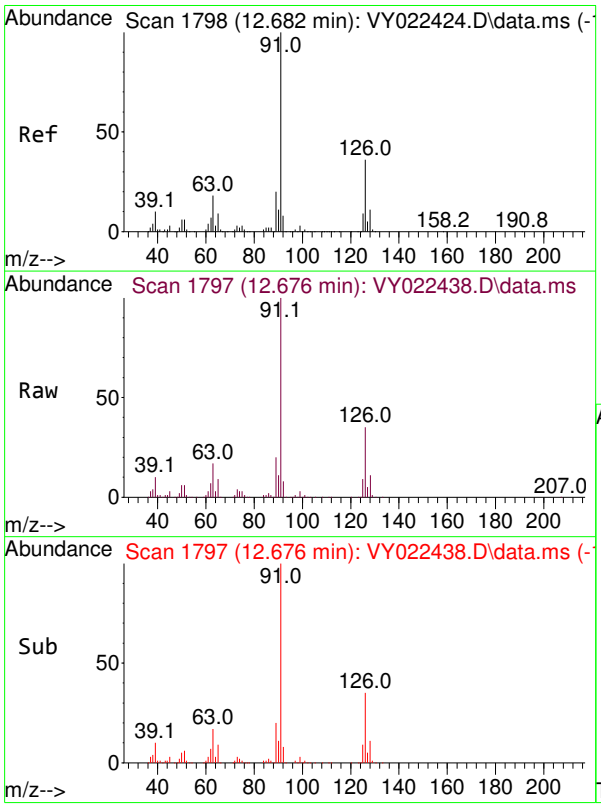


#78
n-propylbenzene
Concen: 49.384 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 91 Resp: 714786

Ion	Ratio	Lower	Upper
91	100		
120	22.1	11.2	33.5

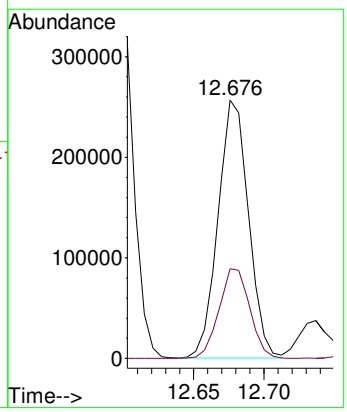




#79
2-Chlorotoluene
Concen: 49.327 ug/l
RT: 12.676 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 91 Resp: 38648

Ion	Ratio	Lower	Upper
91	100		
126	35.1	17.4	52.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

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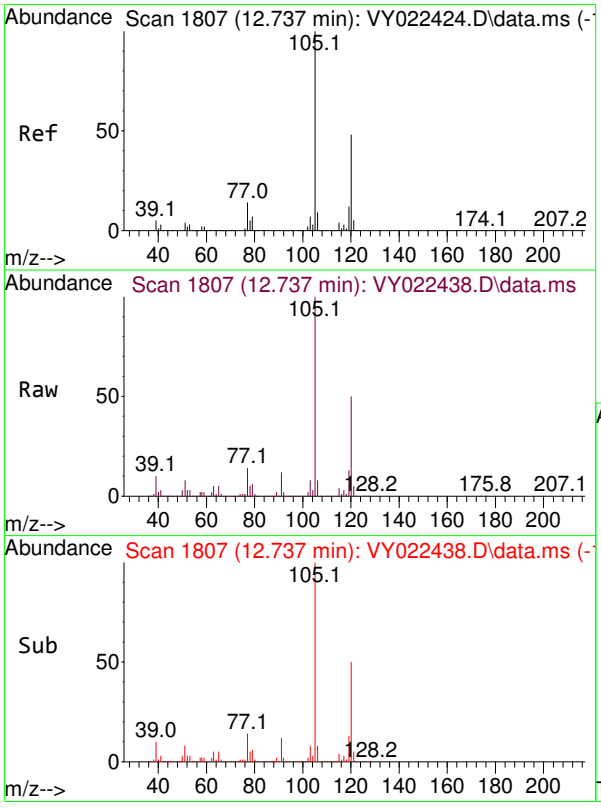
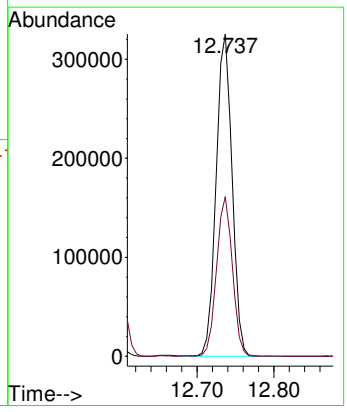
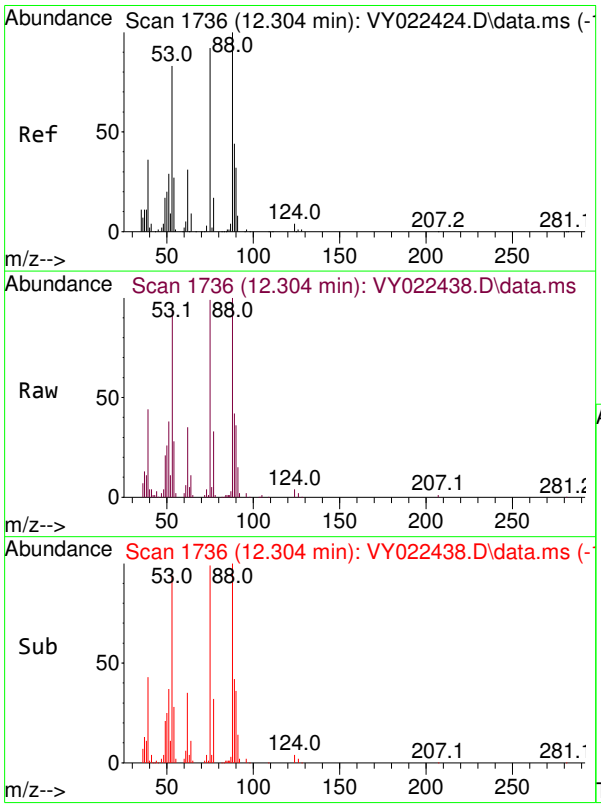


#80
1,3,5-Trimethylbenzene
Concen: 49.937 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion:105 Resp: 470592

Ion	Ratio	Lower	Upper
105	100		
120	49.1	24.3	73.0





#81
trans-1,4-Dichloro-2-butene
Concen: 49.765 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

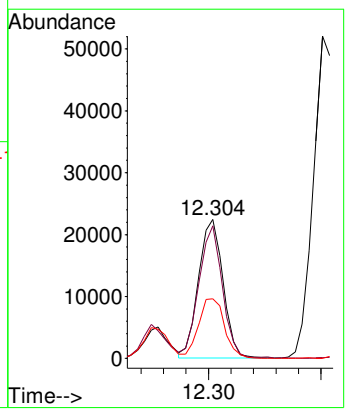
Tgt Ion: 75 Resp: 3377

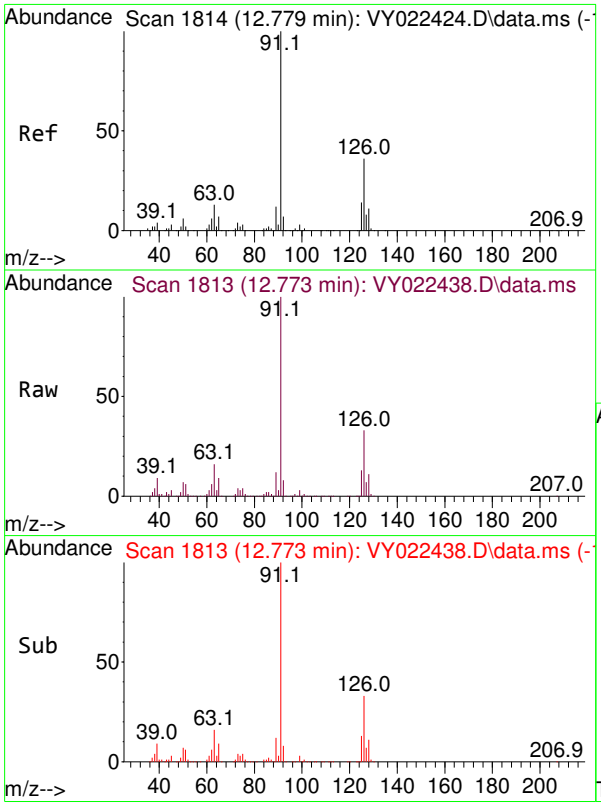
Ion	Ratio	Lower	Upper
75	100		
53	93.5	75.1	112.7
89	46.3	37.4	56.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

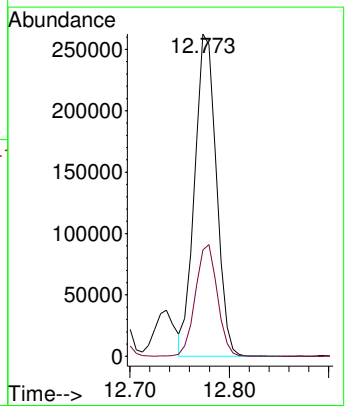


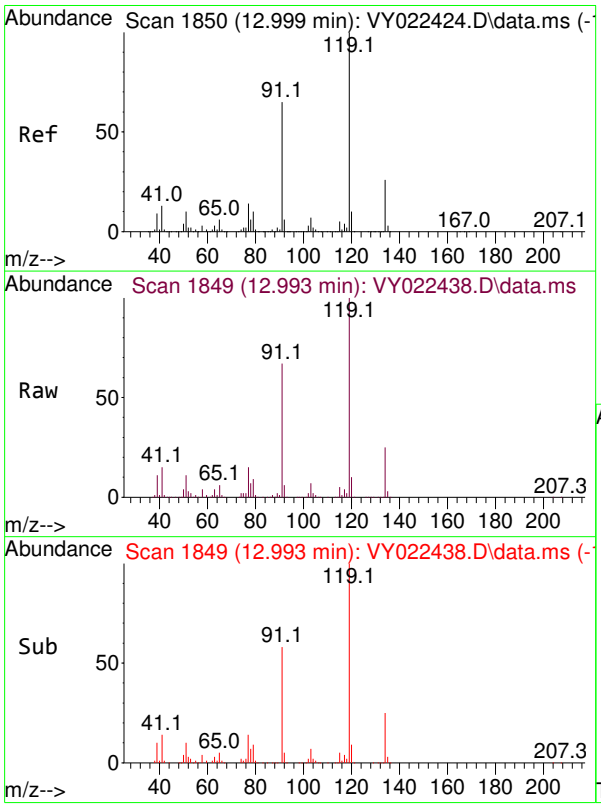


#82
4-Chlorotoluene
Concen: 49.180 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 91 Resp: 396857

Ion	Ratio	Lower	Upper
91	100		
126	35.1	17.2	51.6





#83
tert-Butylbenzene
Concen: 49.935 ug/l
RT: 12.993 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

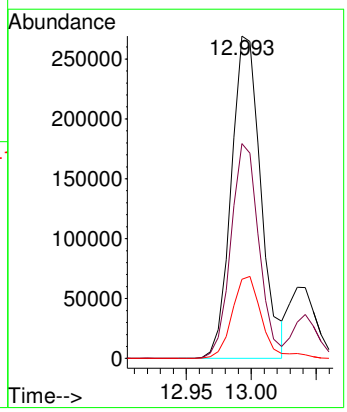
Tgt Ion:119 Resp: 42516

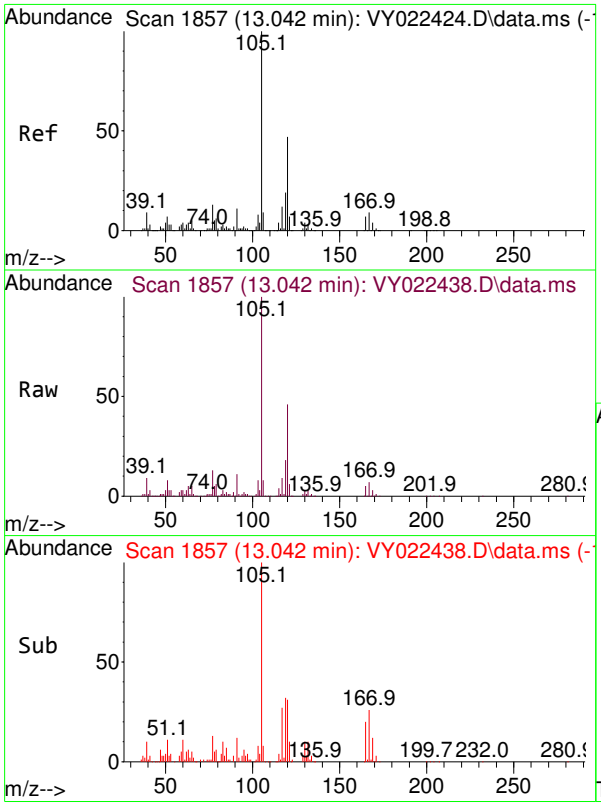
Ion	Ratio	Lower	Upper
119	100		
91	63.2	31.8	95.3
134	25.6	13.0	38.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

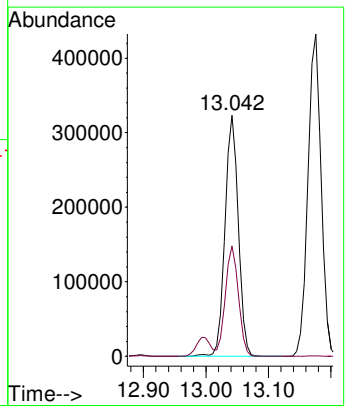


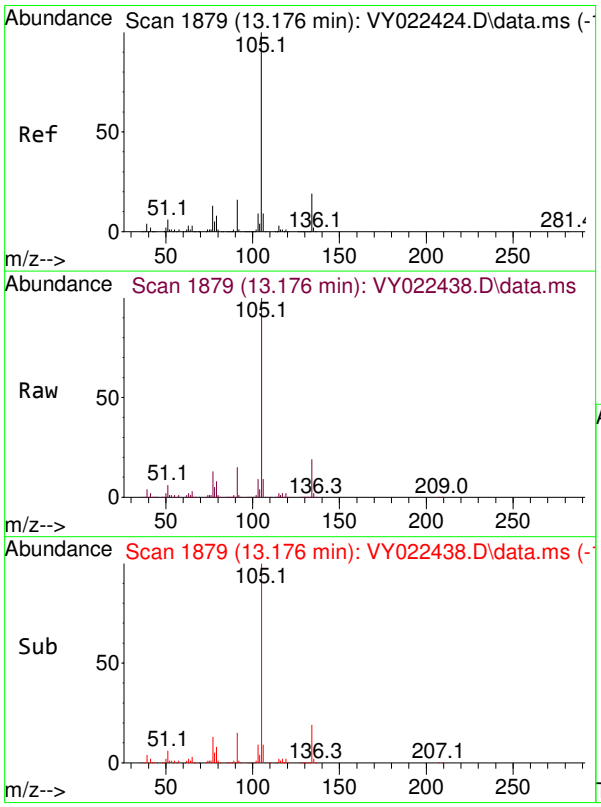


#84
1,2,4-Trimethylbenzene
Concen: 50.013 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.000 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion:105 Resp: 474294

Ion	Ratio	Lower	Upper
105	100		
120	44.7	22.9	68.5





#85
sec-Butylbenzene
Concen: 49.747 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion:105 Resp: 62815

Ion	Ratio	Lower	Upper
105	100		
134	19.4	9.7	29.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :Amit Patel 05/28/2025
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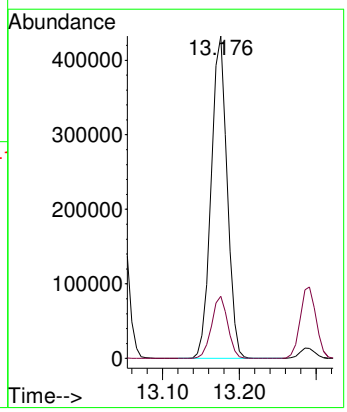
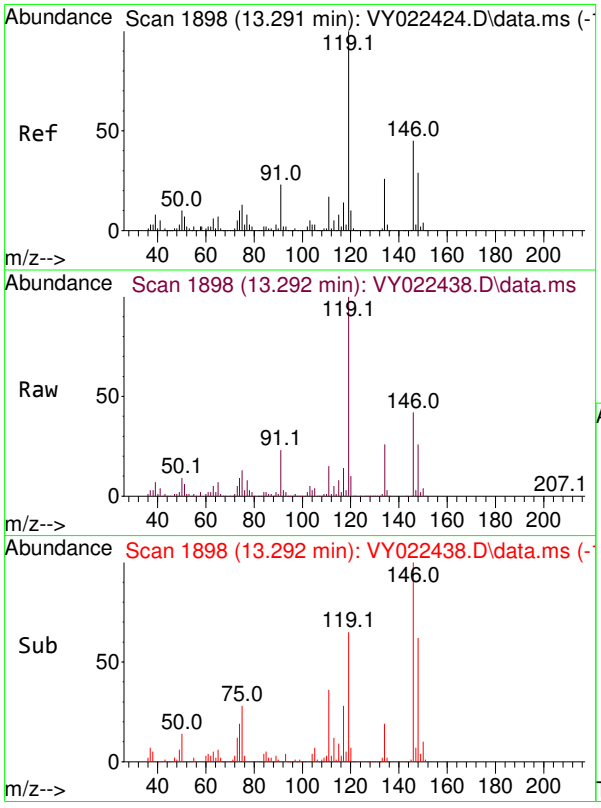
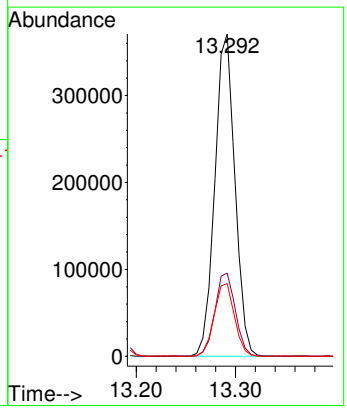


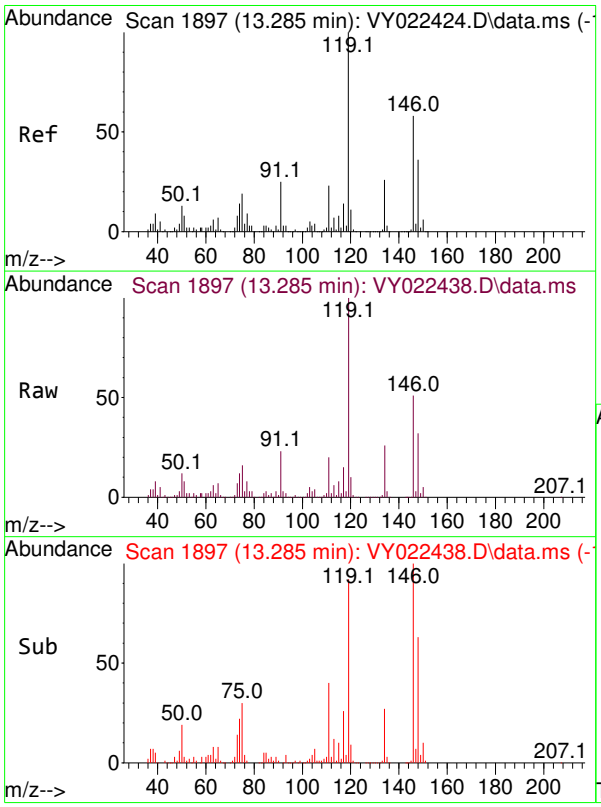


#86
p-Isopropyltoluene
Concen: 49.668 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.000 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion:119 Resp: 523705

Ion	Ratio	Lower	Upper
119	100		
134	26.2	13.0	39.0
91	23.0	11.6	34.8





#87
1,3-Dichlorobenzene
Concen: 49.914 ug/l
RT: 13.285 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

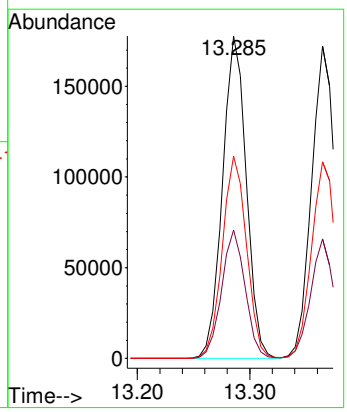
Tgt Ion:146 Resp: 26066

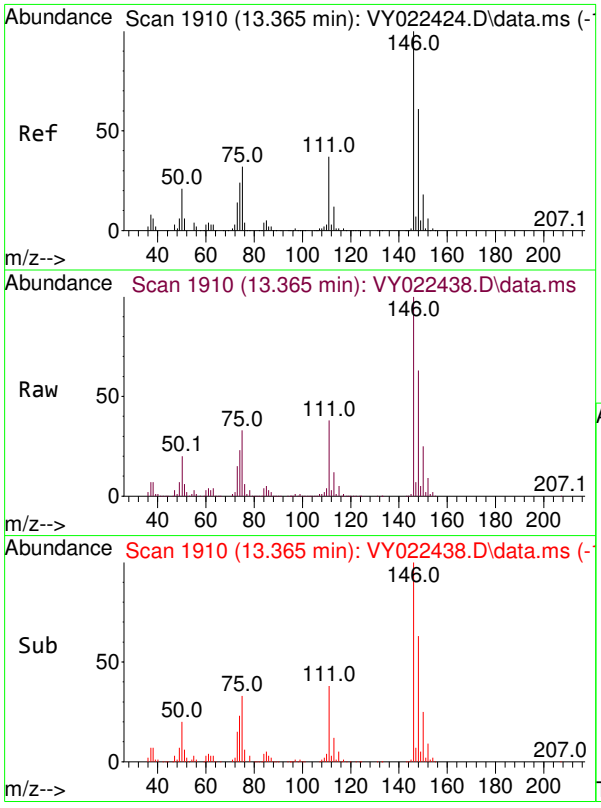
Ion	Ratio	Lower	Upper
146	100		
111	39.4	19.6	58.8
148	63.7	31.7	95.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

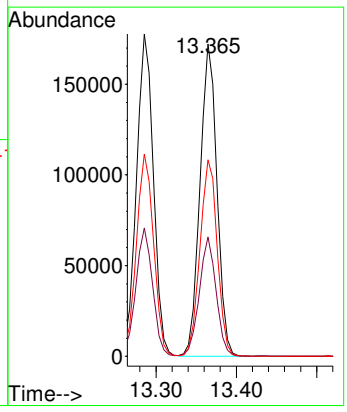


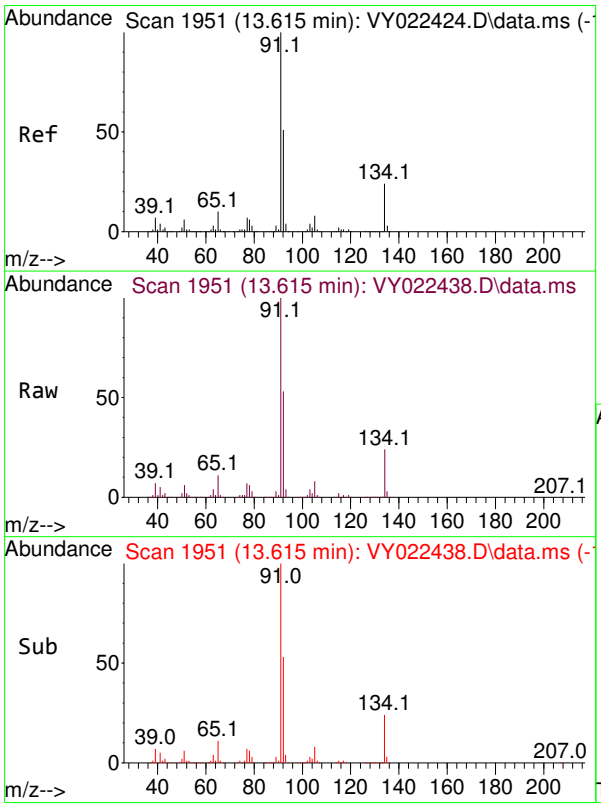


#88
1,4-Dichlorobenzene
Concen: 50.528 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.000 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion:146 Resp: 252310

Ion	Ratio	Lower	Upper
146	100		
111	37.7	18.7	56.1
148	64.1	31.4	94.3





#89
n-Butylbenzene
Concen: 49.721 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

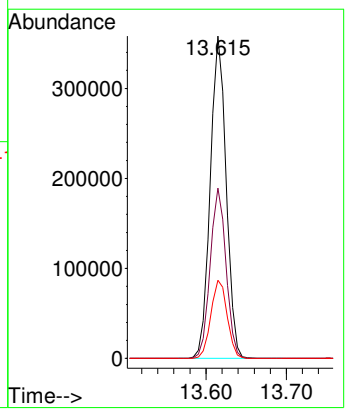
Tgt Ion: 91 Resp: 49156

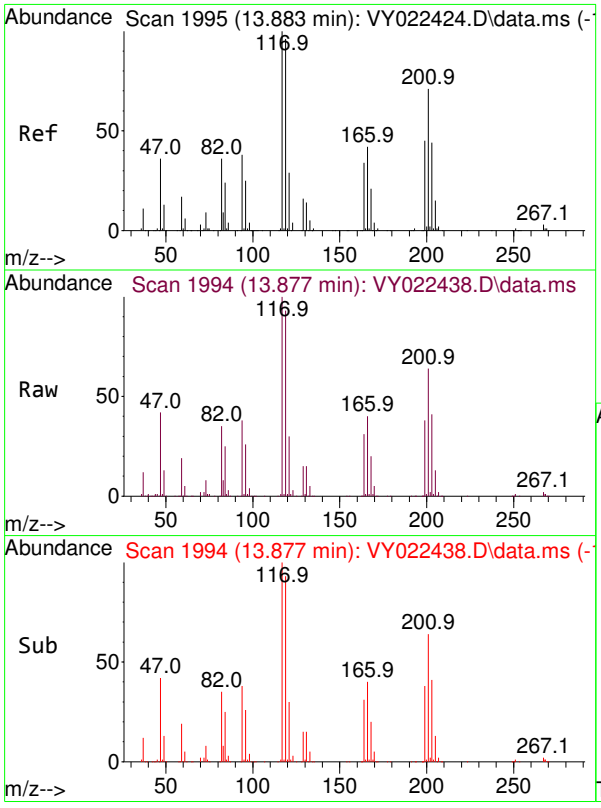
Ion	Ratio	Lower	Upper
91	100		
92	52.7	25.9	77.6
134	24.9	12.4	37.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

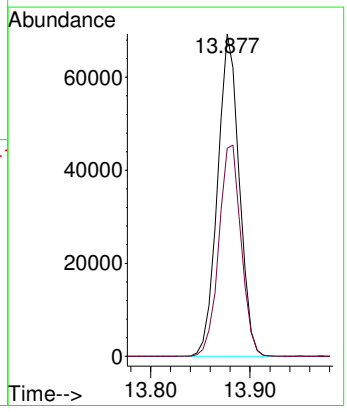


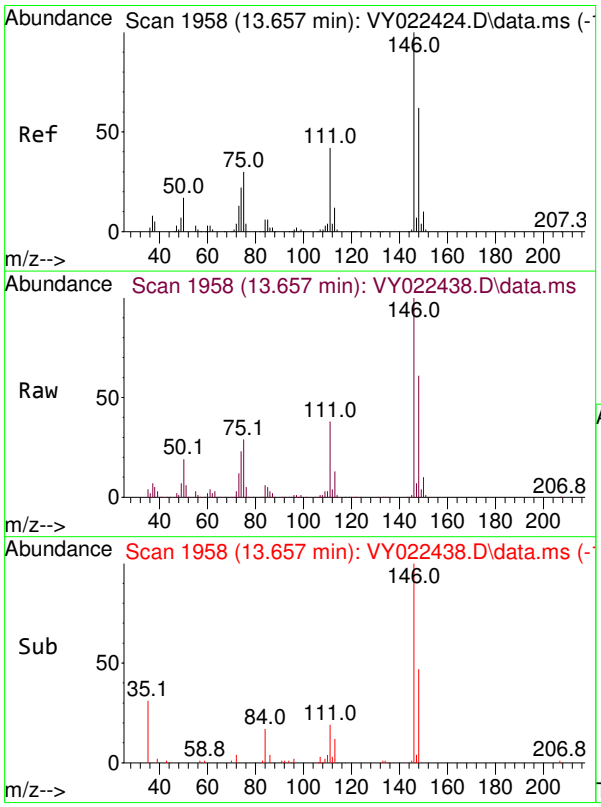


#90
Hexachloroethane
Concen: 50.407 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion:117 Resp: 105769

Ion	Ratio	Lower	Upper
117	100		
201	67.3	35.0	105.0





#91
1,2-Dichlorobenzene
Concen: 52.043 ug/l
RT: 13.657 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

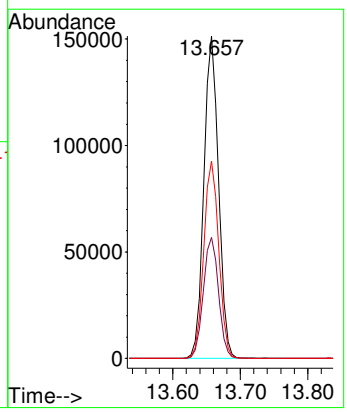
Tgt Ion:146 Resp: 22701

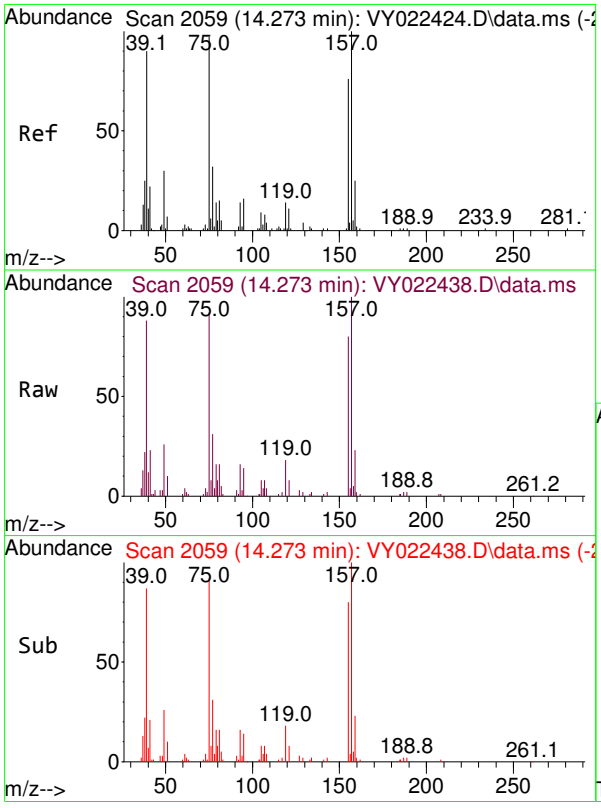
Ion	Ratio	Lower	Upper
146	100		
111	38.9	20.5	61.6
148	62.6	31.9	95.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

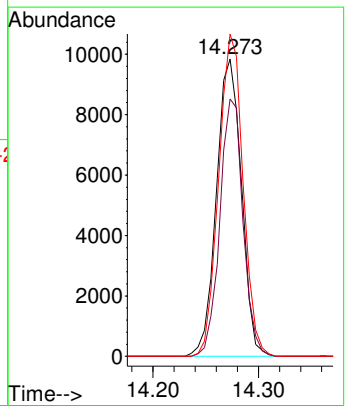


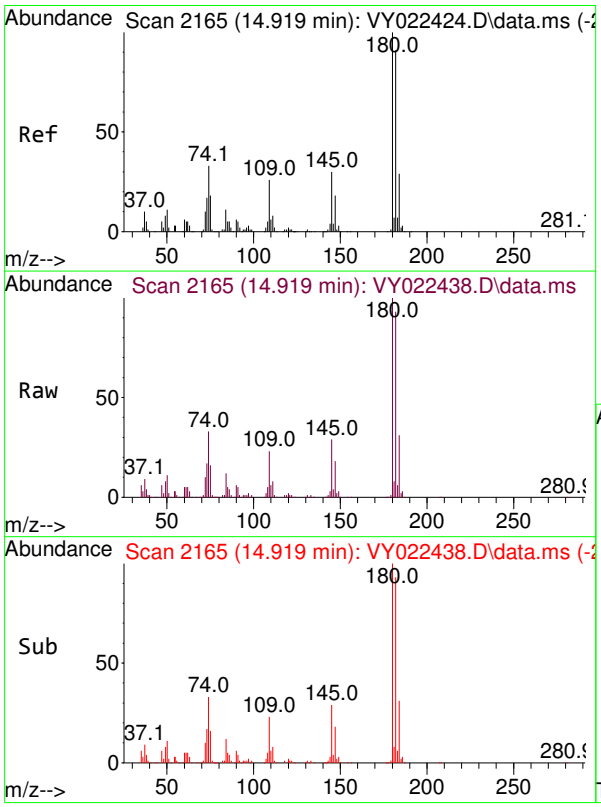


#92
1,2-Dibromo-3-Chloropropane
Concen: 55.375 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.000 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 75 Resp: 16260

Ion	Ratio	Lower	Upper
75	100		
155	80.1	42.3	126.8
157	105.5	54.4	163.3





#93
1,2,4-Trichlorobenzene
Concen: 51.685 ug/l
RT: 14.919 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:180 Resp: 12498

Ion	Ratio	Lower	Upper
180	100		
182	94.7	46.2	138.6
145	29.8	14.2	42.8

Manual Integrations
APPROVED

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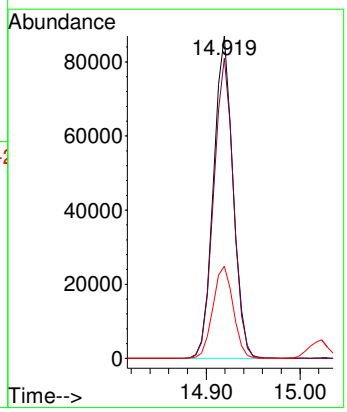
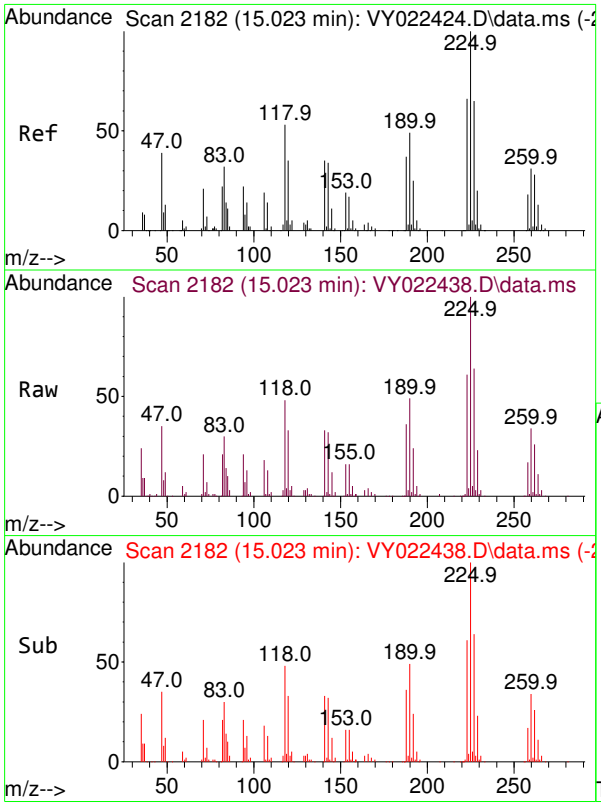
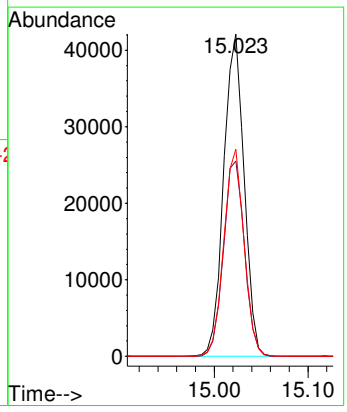


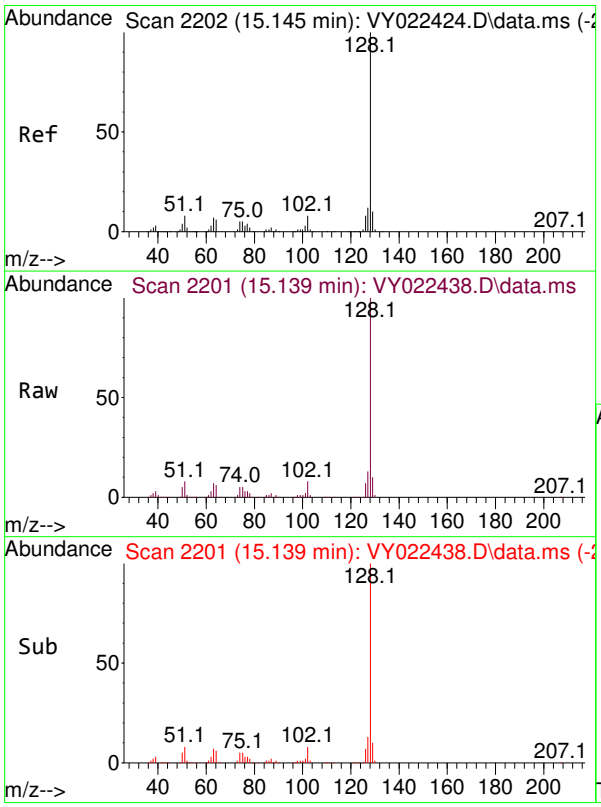


#94
Hexachlorobutadiene
Concen: 50.042 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.000 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion:225 Resp: 63507

Ion	Ratio	Lower	Upper
225	100		
223	62.2	32.6	97.7
227	63.9	33.0	99.0





#95
Naphthalene
Concen: 56.592 ug/l
RT: 15.139 min Scan# 2
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion:128 Resp: 25299

Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.2	15.4
129	11.0	8.5	12.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

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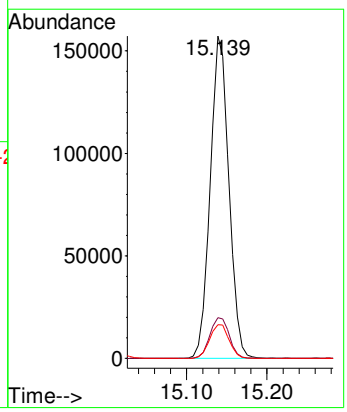
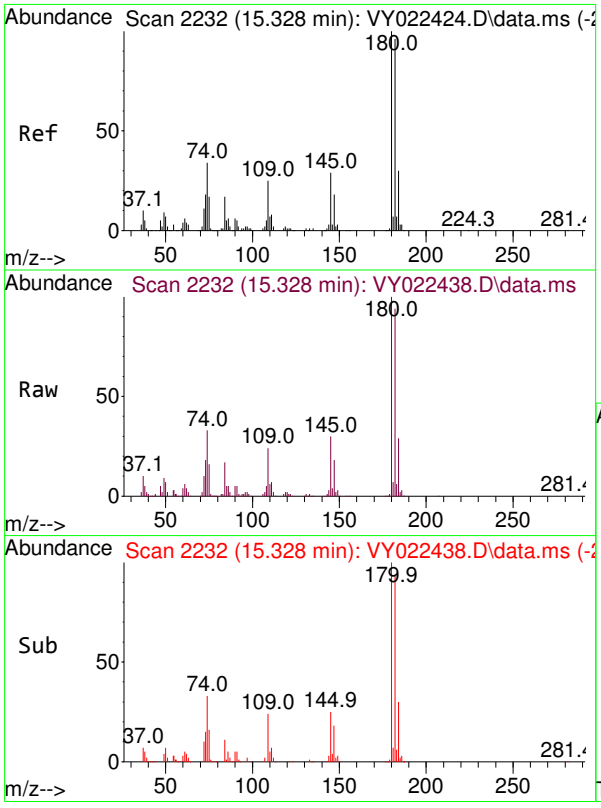
Supervised By :Mahesh Dadoda 05/28/2025

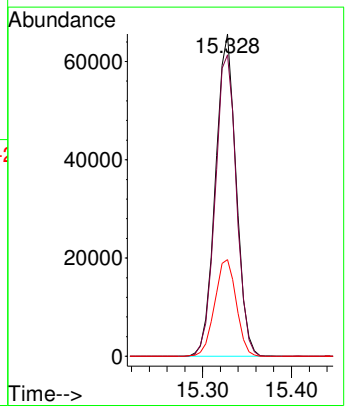




#96
1,2,3-Trichlorobenzene
Concen: 53.776 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. 0.000 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion:180 Resp: 106651

Ion	Ratio	Lower	Upper
180	100		
182	95.8	48.1	144.3
145	31.3	14.9	44.5



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Data File : VY022438.D
Acq On : 27 May 2025 17:10
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: May 28 08:06:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	86	0.00
2	T	Dichlorodifluoromethane	50.000	44.534	10.9	86	0.00
3	P	Chloromethane	50.000	47.114	5.8	79	0.00
4	C	Vinyl Chloride	50.000	53.564	-7.1#	90	0.00
5	T	Bromomethane	50.000	49.847	0.3	87	0.00
6	T	Chloroethane	50.000	56.621	-13.2	89	0.00
7	T	Trichlorofluoromethane	50.000	56.563	-13.1	98	0.00
8	T	Diethyl Ether	50.000	54.247	-8.5	93	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	49.816	0.4	87	0.00
10	T	Methyl Iodide	50.000	51.761	-3.5	82	-0.01
11	T	Tert butyl alcohol	250.000	296.007	-18.4	106	-0.02
12	CM	1,1-Dichloroethene	50.000	50.636	-1.3#	89	0.00
13	T	Acrolein	250.000	258.255	-3.3	87	0.00
14	T	Allyl chloride	50.000	51.098	-2.2	88	0.00
15	T	Acrylonitrile	250.000	284.055	-13.6	98	-0.01
16	T	Acetone	250.000	277.421	-11.0	97	0.00
17	T	Carbon Disulfide	50.000	49.708	0.6	86	0.00
18	T	Methyl Acetate	50.000	69.436	-38.9#	125	-0.01
19	T	Methyl tert-butyl Ether	50.000	54.572	-9.1	94	0.00
20	T	Methylene Chloride	50.000	50.049	-0.1	96	-0.01
21	T	trans-1,2-Dichloroethene	50.000	51.000	-2.0	89	0.00
22	T	Diisopropyl ether	50.000	52.955	-5.9	92	0.00
23	T	Vinyl Acetate	250.000	251.677	-0.7	86	-0.01
24	P	1,1-Dichloroethane	50.000	52.168	-4.3	90	0.00
25	T	2-Butanone	250.000	285.333	-14.1	100	-0.01
26	T	2,2-Dichloropropane	50.000	48.319	3.4	84	0.00
27	T	cis-1,2-Dichloroethene	50.000	51.999	-4.0	91	0.00
28	T	Bromochloromethane	50.000	54.514	-9.0	92	0.00
29	T	Tetrahydrofuran	250.000	285.450	-14.2	99	0.00
30	C	Chloroform	50.000	53.403	-6.8#	91	0.00
31	T	Cyclohexane	50.000	46.951	6.1	87	0.00
32	T	1,1,1-Trichloroethane	50.000	50.648	-1.3	88	0.00
33	S	1,2-Dichloroethane-d4	50.000	53.051	-6.1	90	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	86	0.00
35	S	Dibromofluoromethane	50.000	51.926	-3.9	91	0.00
36	T	1,1-Dichloropropene	50.000	49.665	0.7	87	0.00
37	T	Ethyl Acetate	50.000	53.869	-7.7	92	0.00
38	T	Carbon Tetrachloride	50.000	50.728	-1.5	88	0.00
39	T	Methylcyclohexane	50.000	48.915	2.2	85	0.00
40	TM	Benzene	50.000	51.884	-3.8	89	0.00
41	T	Methacrylonitrile	50.000	54.858	-9.7	97	-0.02
42	TM	1,2-Dichloroethane	50.000	53.251	-6.5	91	0.00
43	T	Isopropyl Acetate	50.000	55.374	-10.7	95	0.00
44	TM	Trichloroethene	50.000	52.154	-4.3	90	0.00
45	C	1,2-Dichloropropane	50.000	52.819	-5.6#	92	0.00
46	T	Dibromomethane	50.000	53.469	-6.9	92	0.00
47	T	Bromodichloromethane	50.000	52.966	-5.9	92	0.00
48	T	Methyl methacrylate	50.000	56.964	-13.9	99	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022438.D
Acq On : 27 May 2025 17:10
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: May 28 08:06:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	1243.469	-24.3	109	0.00
50	S	Toluene-d8	50.000	51.398	-2.8	90	0.00
51	T	4-Methyl-2-Pentanone	250.000	292.551	-17.0	99	0.00
52	CM	Toluene	50.000	52.475	-5.0#	90	0.00
53	T	t-1,3-Dichloropropene	50.000	52.902	-5.8	92	0.00
54	T	cis-1,3-Dichloropropene	50.000	52.274	-4.5	91	0.00
55	T	1,1,2-Trichloroethane	50.000	54.365	-8.7	94	0.00
56	T	Ethyl methacrylate	50.000	54.468	-8.9	91	0.00
57	T	1,3-Dichloropropane	50.000	54.362	-8.7	94	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	282.246	-12.9	96	0.00
59	T	2-Hexanone	250.000	295.339	-18.1	98	0.00
60	T	Dibromochloromethane	50.000	54.851	-9.7	92	0.00
61	T	1,2-Dibromoethane	50.000	55.550	-11.1	94	0.00
62	S	4-Bromofluorobenzene	50.000	50.890	-1.8	89	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	89	0.00
64	T	Tetrachloroethene	50.000	51.564	-3.1	91	0.00
65	PM	Chlorobenzene	50.000	51.070	-2.1	91	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	51.150	-2.3	89	0.00
67	C	Ethyl Benzene	50.000	50.620	-1.2#	90	0.00
68	T	m/p-Xylenes	100.000	101.074	-1.1	89	0.00
69	T	o-Xylene	50.000	51.375	-2.8	91	0.00
70	T	Styrene	50.000	52.127	-4.3	91	0.00
71	P	Bromoform	50.000	53.724	-7.4	94	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	90	0.00
73	T	Isopropylbenzene	50.000	48.816	2.4	89	0.00
74	T	N-amyl acetate	50.000	51.341	-2.7	89	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	52.620	-5.2	95	0.00
76	T	1,2,3-Trichloropropane	50.000	47.286	5.4	87	0.00
77	T	Bromobenzene	50.000	49.317	1.4	88	0.00
78	T	n-propylbenzene	50.000	49.384	1.2	89	0.00
79	T	2-Chlorotoluene	50.000	49.327	1.3	90	0.00
80	T	1,3,5-Trimethylbenzene	50.000	49.937	0.1	90	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	49.765	0.5	92	0.00
82	T	4-Chlorotoluene	50.000	49.180	1.6	89	0.00
83	T	tert-Butylbenzene	50.000	49.935	0.1	90	0.00
84	T	1,2,4-Trimethylbenzene	50.000	50.013	-0.0	89	0.00
85	T	sec-Butylbenzene	50.000	49.747	0.5	89	0.00
86	T	p-Isopropyltoluene	50.000	49.668	0.7	88	0.00
87	T	1,3-Dichlorobenzene	50.000	49.914	0.2	90	0.00
88	T	1,4-Dichlorobenzene	50.000	50.528	-1.1	90	0.00
89	T	n-Butylbenzene	50.000	49.721	0.6	87	0.00
90	T	Hexachloroethane	50.000	50.407	-0.8	90	0.00
91	T	1,2-Dichlorobenzene	50.000	52.043	-4.1	94	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	55.375	-10.8	102	0.00
93	T	1,2,4-Trichlorobenzene	50.000	51.685	-3.4	89	0.00
94	T	Hexachlorobutadiene	50.000	50.042	-0.1	88	0.00
95	T	Naphthalene	50.000	56.592	-13.2	95	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022438.D
Acq On : 27 May 2025 17:10
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: May 28 08:06:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	53.776	-7.6	91	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022438.D
Acq On : 27 May 2025 17:10
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: May 28 08:06:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	86	0.00
2	T	Dichlorodifluoromethane	0.477	0.425	10.9	86	0.00
3	P	Chloromethane	1.173	1.106	5.7	79	0.00
4	C	Vinyl Chloride	1.425	1.527	-7.2#	90	0.00
5	T	Bromomethane	1.295	1.291	0.3	87	0.00
6	T	Chloroethane	0.931	1.055	-13.3	89	0.00
7	T	Trichlorofluoromethane	1.203	1.361	-13.1	98	0.00
8	T	Diethyl Ether	0.277	0.301	-8.7	93	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.528	0.526	0.4	87	0.00
10	T	Methyl Iodide	0.595	0.616	-3.5	82	-0.01
11	T	Tert butyl alcohol	0.037	0.044	-18.9	106	-0.02
12	CM	1,1-Dichloroethene	0.524	0.531	-1.3#	89	0.00
13	T	Acrolein	0.056	0.057	-1.8	87	0.00
14	T	Allyl chloride	0.788	0.805	-2.2	88	0.00
15	T	Acrylonitrile	0.112	0.127	-13.4	98	-0.01
16	T	Acetone	0.087	0.096	-10.3	97	0.00
17	T	Carbon Disulfide	1.672	1.662	0.6	86	0.00
18	T	Methyl Acetate	0.324	0.450	-38.9#	125	-0.01
19	T	Methyl tert-butyl Ether	1.391	1.518	-9.1	94	0.00
20	T	Methylene Chloride	0.611	0.612	-0.2	96	-0.01
21	T	trans-1,2-Dichloroethene	0.572	0.583	-1.9	89	0.00
22	T	Diisopropyl ether	1.739	1.842	-5.9	92	0.00
23	T	Vinyl Acetate	0.999	1.005	-0.6	86	-0.01
24	P	1,1-Dichloroethane	1.028	1.072	-4.3	90	0.00
25	T	2-Butanone	0.144	0.164	-13.9	100	-0.01
26	T	2,2-Dichloropropane	0.931	0.899	3.4	84	0.00
27	T	cis-1,2-Dichloroethene	0.662	0.689	-4.1	91	0.00
28	T	Bromochloromethane	0.429	0.468	-9.1	92	0.00
29	T	Tetrahydrofuran	0.096	0.110	-14.6	99	0.00
30	C	Chloroform	1.013	1.082	-6.8#	91	0.00
31	T	Cyclohexane	1.013	0.951	6.1	87	0.00
32	T	1,1,1-Trichloroethane	0.919	0.931	-1.3	88	0.00
33	S	1,2-Dichloroethane-d4	0.527	0.559	-6.1	90	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	86	0.00
35	S	Dibromofluoromethane	0.293	0.304	-3.8	91	0.00
36	T	1,1-Dichloropropene	0.465	0.462	0.6	87	0.00
37	T	Ethyl Acetate	0.197	0.213	-8.1	92	0.00
38	T	Carbon Tetrachloride	0.484	0.491	-1.4	88	0.00
39	T	Methylcyclohexane	0.618	0.604	2.3	85	0.00
40	TM	Benzene	1.383	1.435	-3.8	89	0.00
41	T	Methacrylonitrile	0.120	0.131	-9.2	97	-0.02
42	TM	1,2-Dichloroethane	0.365	0.389	-6.6	91	0.00
43	T	Isopropyl Acetate	0.432	0.478	-10.6	95	0.00
44	TM	Trichloroethene	0.342	0.357	-4.4	90	0.00
45	C	1,2-Dichloropropane	0.325	0.343	-5.5#	92	0.00
46	T	Dibromomethane	0.181	0.194	-7.2	92	0.00
47	T	Bromodichloromethane	0.467	0.494	-5.8	92	0.00
48	T	Methyl methacrylate	0.200	0.228	-14.0	99	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022438.D
Acq On : 27 May 2025 17:10
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: May 28 08:06:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.002	0.002	0.0	109	0.00
50	S	Toluene-d8	1.194	1.227	-2.8	90	0.00
51	T	4-Methyl-2-Pentanone	0.213	0.249	-16.9	99	0.00
52	CM	Toluene	0.864	0.906	-4.9#	90	0.00
53	T	t-1,3-Dichloropropene	0.435	0.460	-5.7	92	0.00
54	T	cis-1,3-Dichloropropene	0.511	0.534	-4.5	91	0.00
55	T	1,1,2-Trichloroethane	0.229	0.249	-8.7	94	0.00
56	T	Ethyl methacrylate	0.329	0.359	-9.1	91	0.00
57	T	1,3-Dichloropropane	0.404	0.440	-8.9	94	0.00
58	T	2-Chloroethyl Vinyl ether	0.164	0.185	-12.8	96	0.00
59	T	2-Hexanone	0.140	0.165	-17.9	98	0.00
60	T	Dibromochloromethane	0.293	0.322	-9.9	92	0.00
61	T	1,2-Dibromoethane	0.210	0.233	-11.0	94	0.00
62	S	4-Bromofluorobenzene	0.361	0.367	-1.7	89	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	89	0.00
64	T	Tetrachloroethene	0.426	0.439	-3.1	91	0.00
65	PM	Chlorobenzene	1.066	1.089	-2.2	91	0.00
66	T	1,1,1,2-Tetrachloroethane	0.361	0.370	-2.5	89	0.00
67	C	Ethyl Benzene	1.980	2.004	-1.2#	90	0.00
68	T	m/p-Xylenes	0.751	0.759	-1.1	89	0.00
69	T	o-Xylene	0.705	0.725	-2.8	91	0.00
70	T	Styrene	1.175	1.225	-4.3	91	0.00
71	P	Bromoform	0.189	0.203	-7.4	94	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	90	0.00
73	T	Isopropylbenzene	3.935	3.842	2.4	89	0.00
74	T	N-amyl acetate	0.963	0.989	-2.7	89	0.00
75	P	1,1,2,2-Tetrachloroethane	0.620	0.652	-5.2	95	0.00
76	T	1,2,3-Trichloropropane	0.501	0.474	5.4	87	0.00
77	T	Bromobenzene	0.847	0.835	1.4	88	0.00
78	T	n-propylbenzene	4.723	4.664	1.2	89	0.00
79	T	2-Chlorotoluene	2.556	2.522	1.3	90	0.00
80	T	1,3,5-Trimethylbenzene	3.075	3.071	0.1	90	0.00
81	T	trans-1,4-Dichloro-2-butene	0.221	0.220	0.5	92	0.00
82	T	4-Chlorotoluene	2.633	2.590	1.6	89	0.00
83	T	tert-Butylbenzene	2.778	2.774	0.1	90	0.00
84	T	1,2,4-Trimethylbenzene	3.094	3.095	-0.0	89	0.00
85	T	sec-Butylbenzene	4.120	4.099	0.5	89	0.00
86	T	p-Isopropyltoluene	3.440	3.417	0.7	88	0.00
87	T	1,3-Dichlorobenzene	1.704	1.701	0.2	90	0.00
88	T	1,4-Dichlorobenzene	1.629	1.646	-1.0	90	0.00
89	T	n-Butylbenzene	3.226	3.208	0.6	87	0.00
90	T	Hexachloroethane	0.685	0.690	-0.7	90	0.00
91	T	1,2-Dichlorobenzene	1.423	1.481	-4.1	94	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.096	0.106	-10.4	102	0.00
93	T	1,2,4-Trichlorobenzene	0.789	0.816	-3.4	89	0.00
94	T	Hexachlorobutadiene	0.414	0.414	0.0	88	0.00
95	T	Naphthalene	1.459	1.651	-13.2	95	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022438.D
Acq On : 27 May 2025 17:10
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: May 28 08:06:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.647	0.696	-7.6	91	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

QC SAMPLE DATA

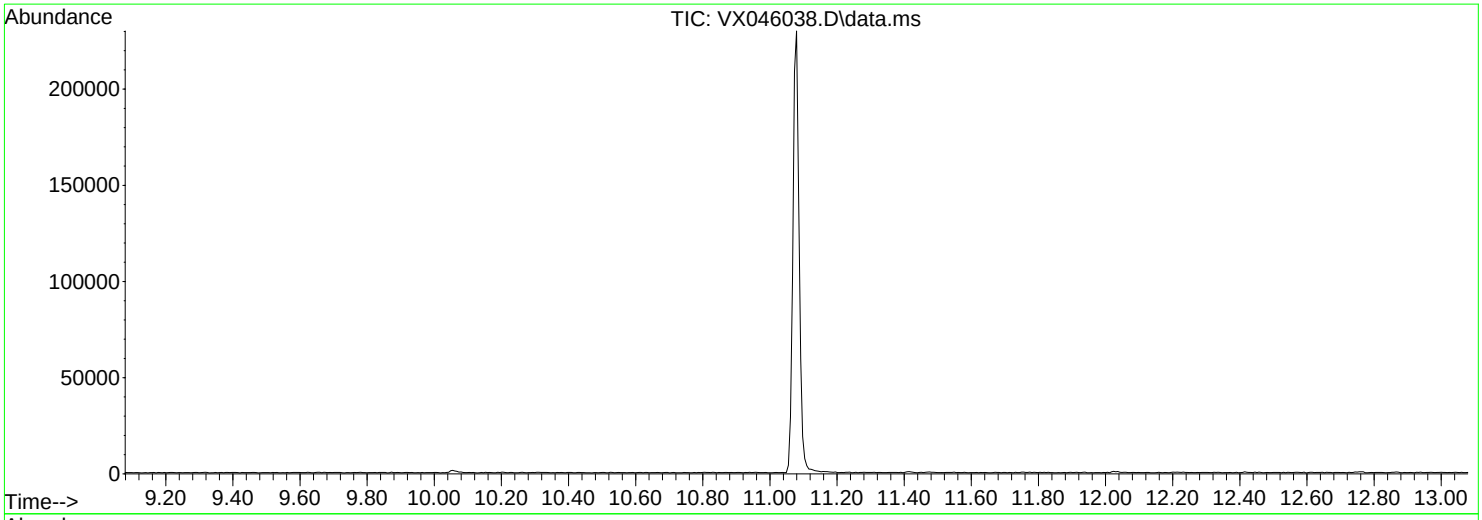
Sample Results: **VX046038.D**

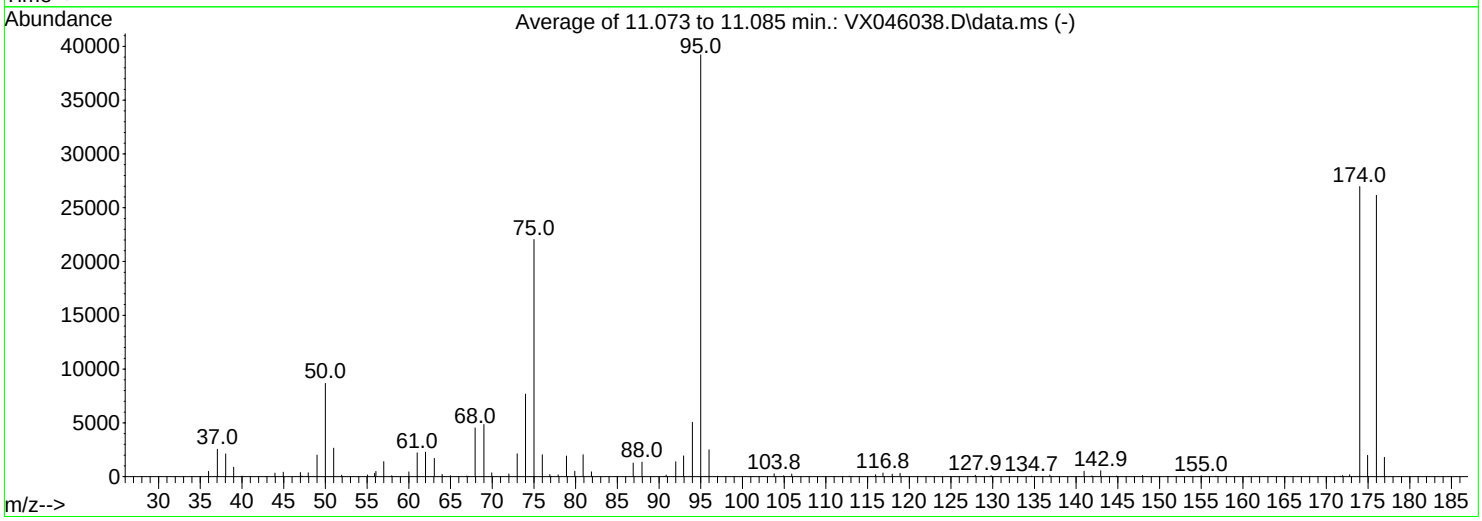
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046038.D
Acq On : 05 May 2025 09:37
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Title : SW846 8260
Last Update : Tue May 06 07:12:22 2025





AutoFind: Scans 1638, 1639, 1640; Background Corrected with Scan 1631

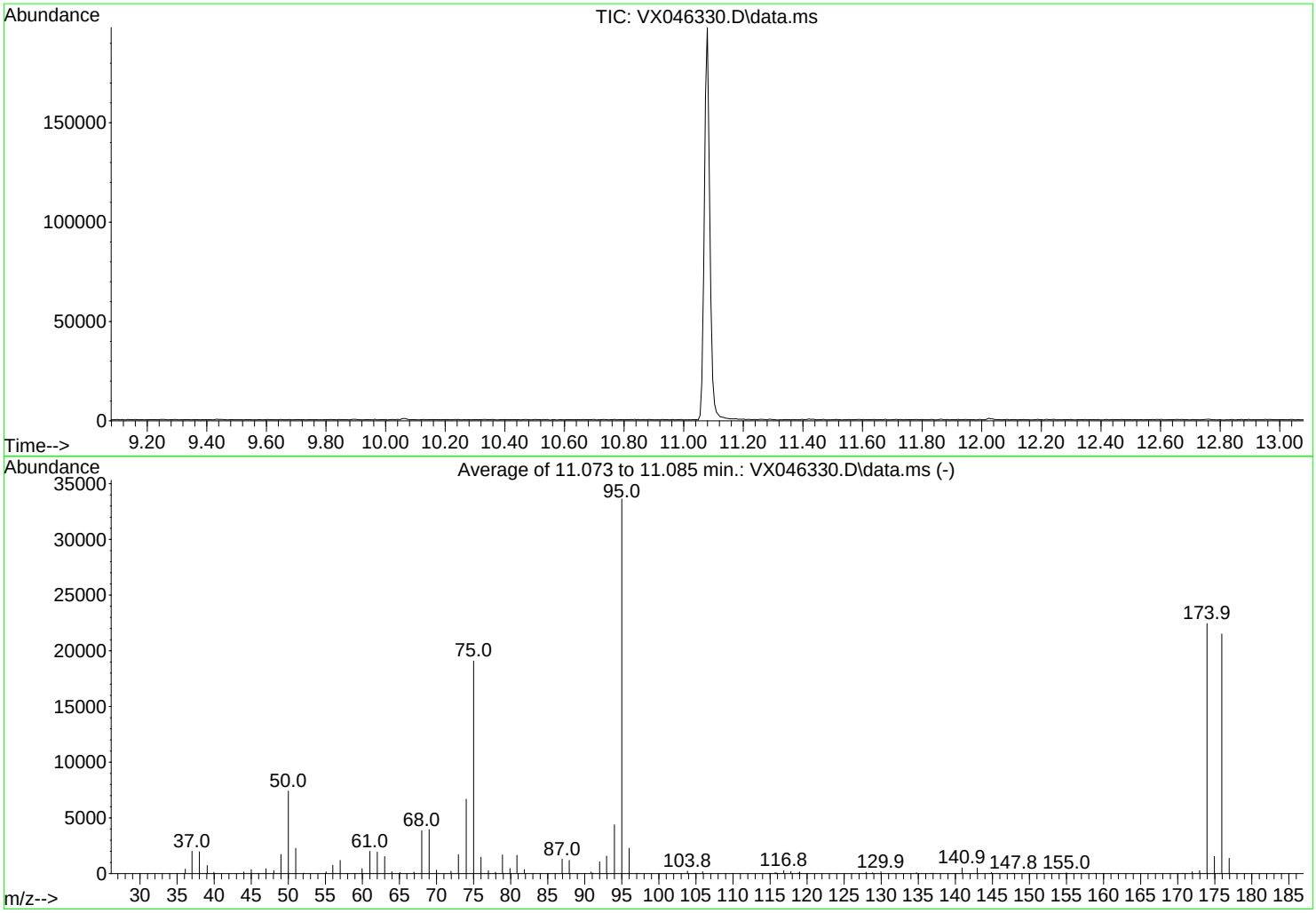
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.1	8676	PASS
75	95	30	60	56.2	22052	PASS
95	95	100	100	100.0	39213	PASS
96	95	5	9	6.4	2505	PASS
173	174	0.00	2	0.7	185	PASS
174	95	50	100	68.8	26963	PASS
175	174	5	9	7.3	1980	PASS
176	174	95	101	97.0	26147	PASS
177	176	5	9	6.9	1802	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046330.D
Acq On : 23 May 2025 08:25
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Title : SW846 8260
Last Update : Tue May 06 07:12:22 2025



AutoFind: Scans 1638, 1639, 1640; Background Corrected with Scan 1632

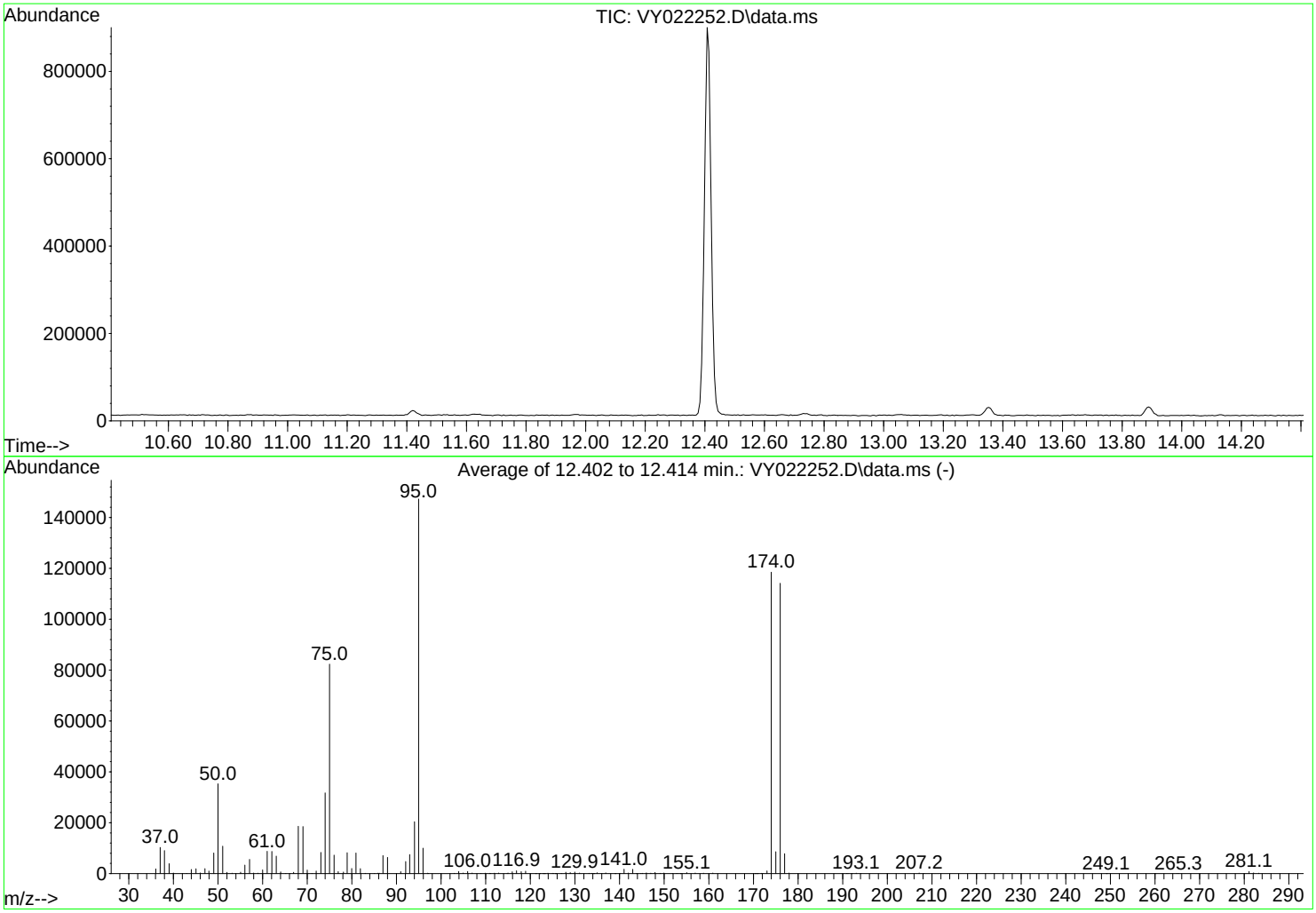
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.0	7406	PASS
75	95	30	60	56.7	19080	PASS
95	95	100	100	100.0	33629	PASS
96	95	5	9	6.7	2267	PASS
173	174	0.00	2	1.2	270	PASS
174	95	50	100	66.8	22448	PASS
175	174	5	9	6.9	1542	PASS
176	174	95	101	95.9	21525	PASS
177	176	5	9	6.4	1375	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022252.D
Acq On : 15 May 2025 07:52
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Title : SW846 8260
Last Update : Fri May 16 01:42:09 2025



AutoFind: Scans 1752, 1753, 1754; Background Corrected with Scan 1745

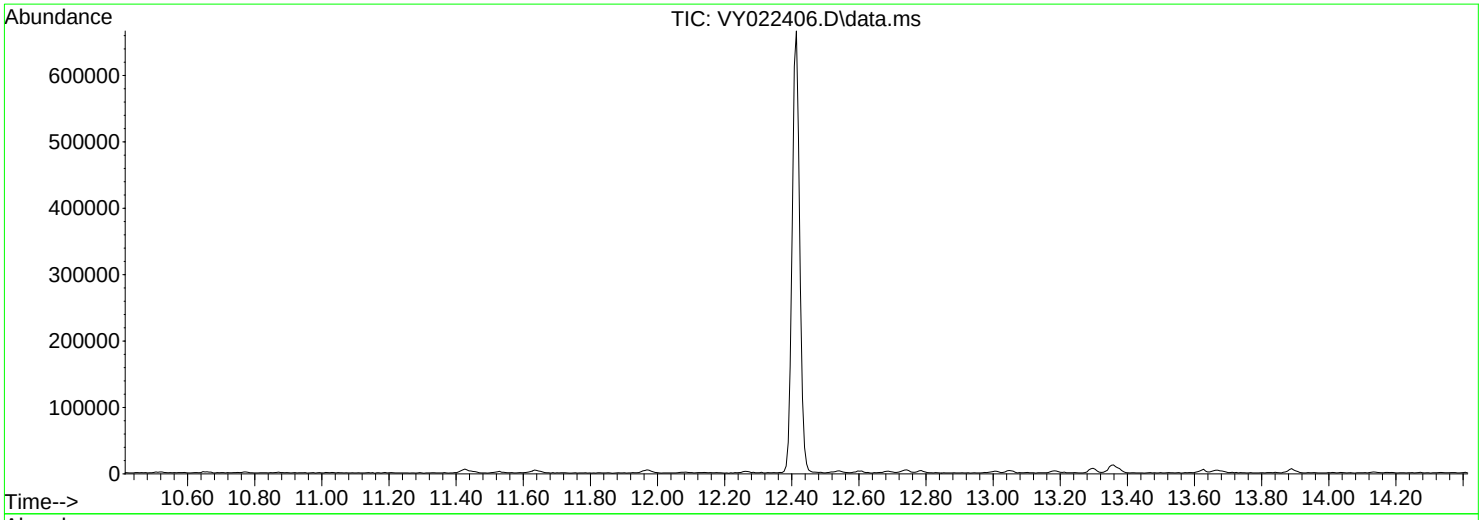
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.0	35318	PASS
75	95	30	60	55.9	82344	PASS
95	95	100	100	100.0	147275	PASS
96	95	5	9	6.8	9993	PASS
173	174	0.00	2	0.9	1042	PASS
174	95	50	100	80.5	118504	PASS
175	174	5	9	7.3	8635	PASS
176	174	95	101	96.3	114157	PASS
177	176	5	9	6.8	7810	PASS

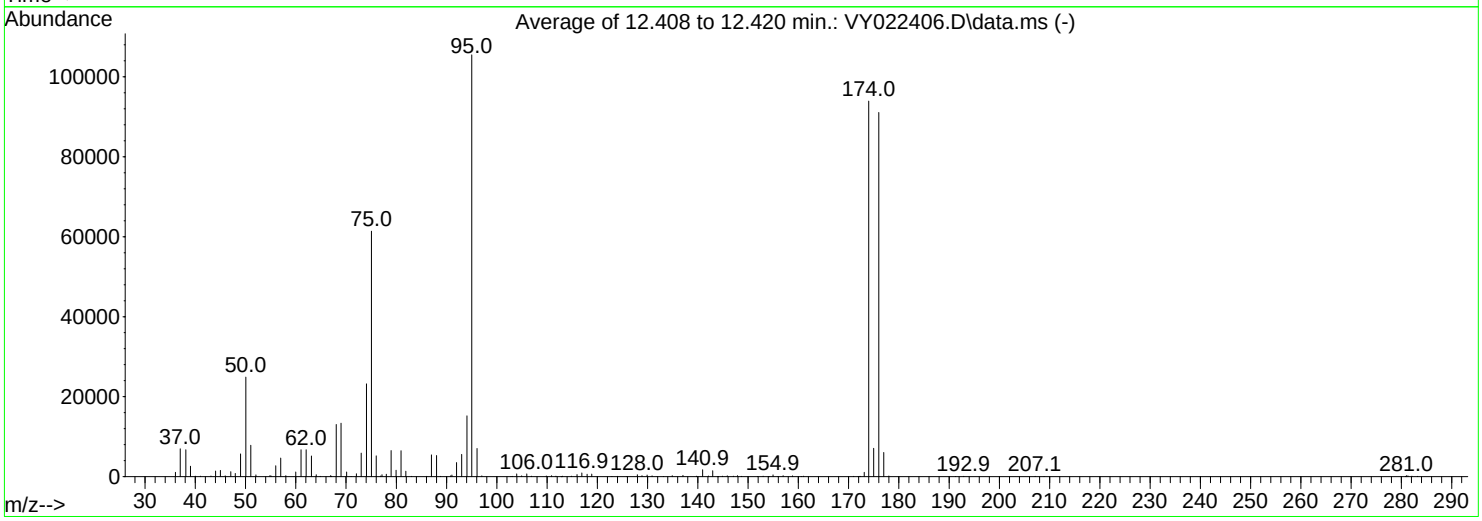
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022406.D
Acq On : 23 May 2025 11:40
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Title : SW846 8260
Last Update : Fri May 16 01:42:09 2025





AutoFind: Scans 1753, 1754, 1755; Background Corrected with Scan 1744

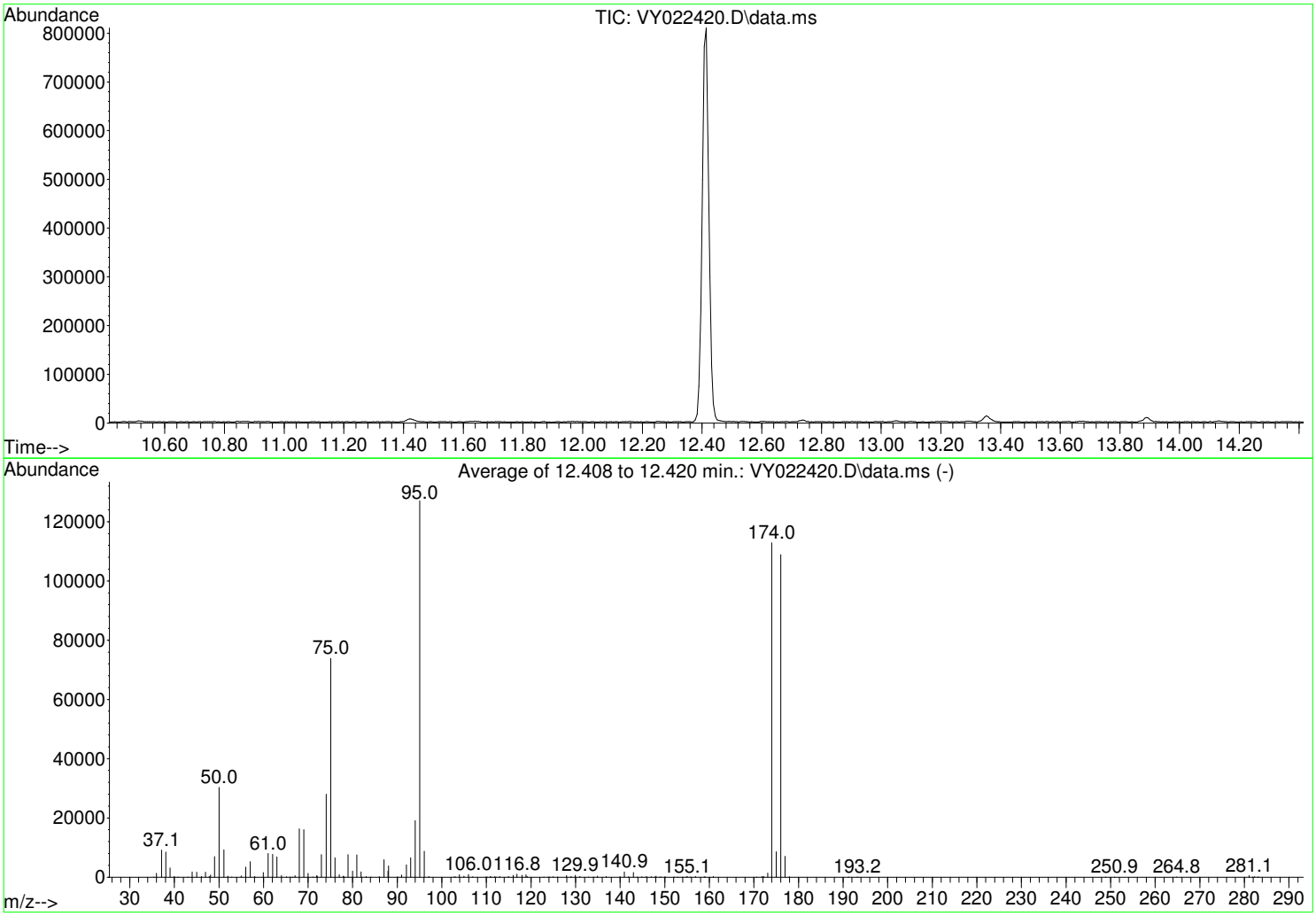
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.6	24907	PASS
75	95	30	60	58.2	61381	PASS
95	95	100	100	100.0	105501	PASS
96	95	5	9	6.7	7047	PASS
173	174	0.00	2	1.2	1085	PASS
174	95	50	100	89.0	93931	PASS
175	174	5	9	7.6	7094	PASS
176	174	95	101	97.0	91072	PASS
177	176	5	9	6.6	6044	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022420.D
Acq On : 27 May 2025 08:20
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Title : SW846 8260
Last Update : Wed May 28 10:34:06 2025



AutoFind: Scans 1753, 1754, 1755; Background Corrected with Scan 1745

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.8	30285	PASS
75	95	30	60	58.1	73816	PASS
95	95	100	100	100.0	127085	PASS
96	95	5	9	6.9	8787	PASS
173	174	0.00	2	1.2	1405	PASS
174	95	50	100	88.8	112901	PASS
175	174	5	9	7.6	8537	PASS
176	174	95	101	96.4	108888	PASS
177	176	5	9	6.5	7038	PASS

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	VX0523WBL01	SDG No.:	Q2118
Lab Sample ID:	VX0523WBL01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046333.D	1		05/23/25 10:16	VX052325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.23	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.19	0.75	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	VX0523WBL01	SDG No.:	Q2118
Lab Sample ID:	VX0523WBL01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046333.D	1		05/23/25 10:16	VX052325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	53.2		81 - 118		106%	SPK: 50
1868-53-7	Dibromofluoromethane	52.0		80 - 119		104%	SPK: 50
2037-26-5	Toluene-d8	51.1		89 - 112		102%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.9		85 - 114		104%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	69200	5.55				
540-36-3	1,4-Difluorobenzene	136000	6.757				
3114-55-4	Chlorobenzene-d5	130000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	57100	12.018				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046333.D
Acq On : 23 May 2025 10:16
Operator : JC/MD
Sample : VX0523WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBL01

Quant Time: May 23 22:57:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

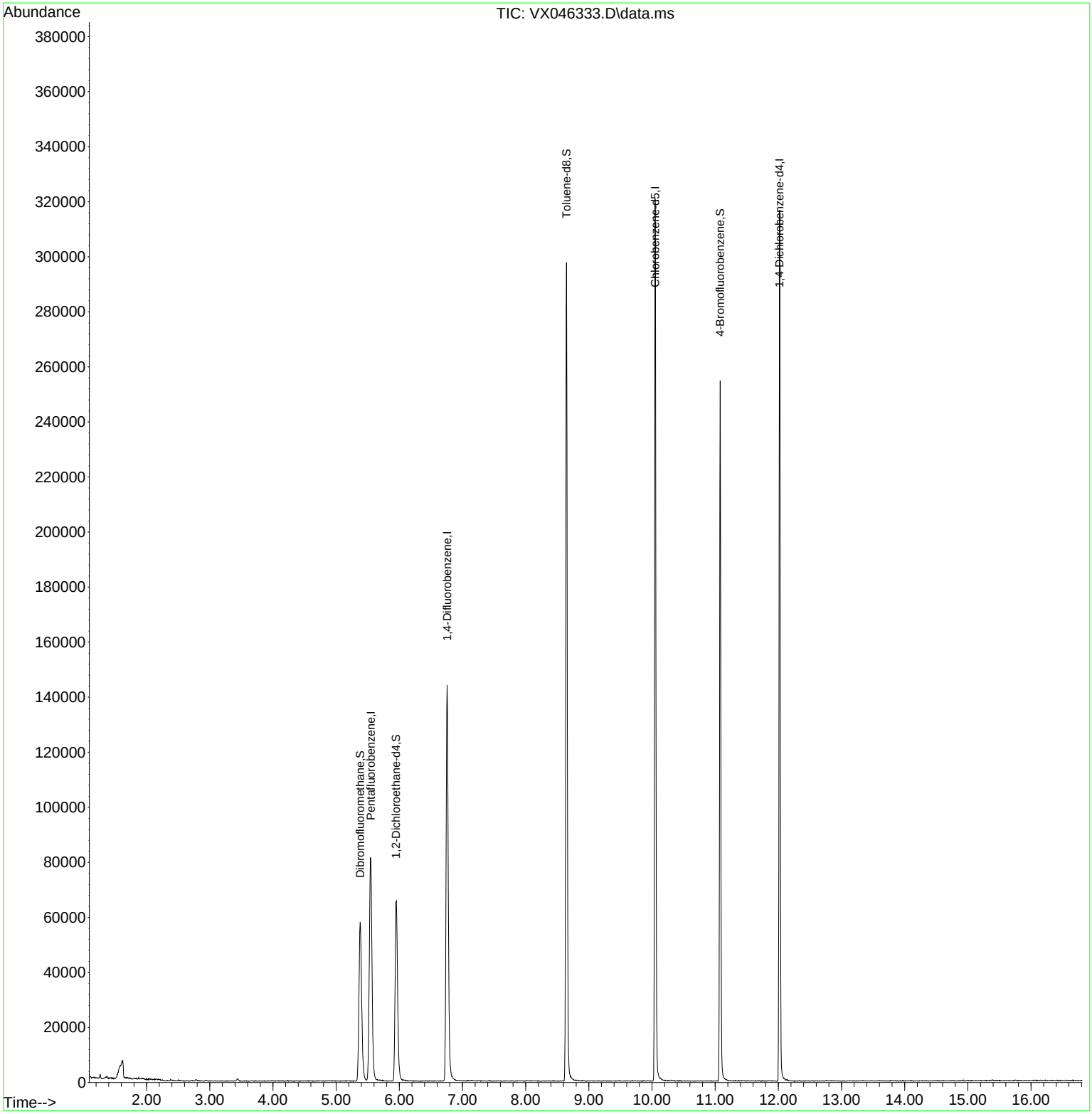
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	69169	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	136383	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	129888	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	57102	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	68649	53.236	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 106.480%			
35) Dibromofluoromethane	5.379	113	51060	51.991	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.980%			
50) Toluene-d8	8.647	98	173751	51.115	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.240%			
62) 4-Bromofluorobenzene	11.079	95	67697	51.920	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 103.840%			
Target Compounds						Qvalue

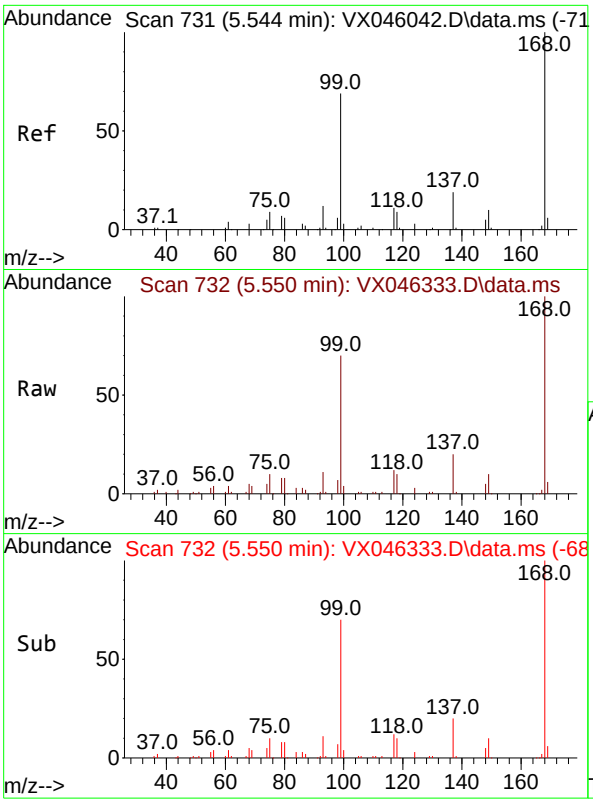
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046333.D
Acq On : 23 May 2025 10:16
Operator : JC/MD
Sample : VX0523WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBL01

Quant Time: May 23 22:57:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration



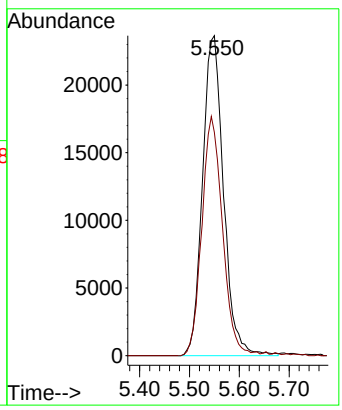


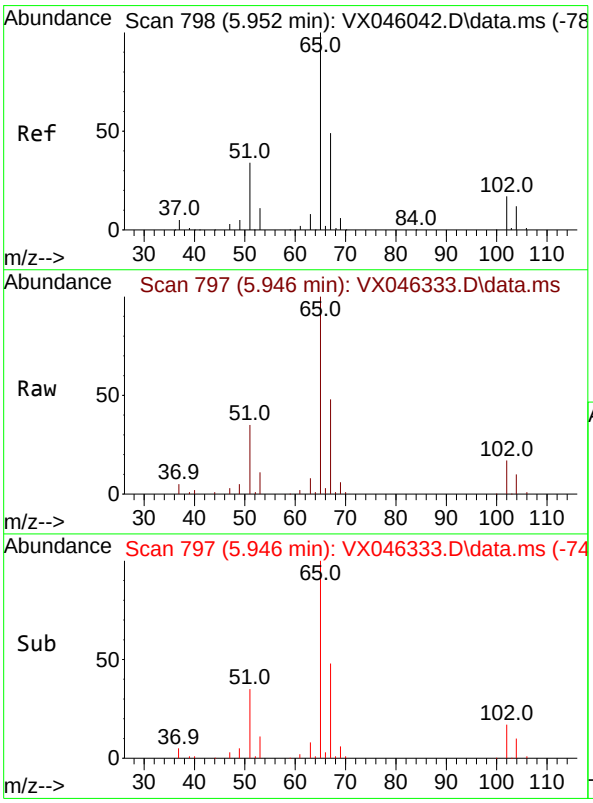
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX046333.D
Acq: 23 May 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBL01

Tgt Ion:168 Resp: 69169

Ion	Ratio	Lower	Upper
168	100		
99	69.8	54.9	82.3

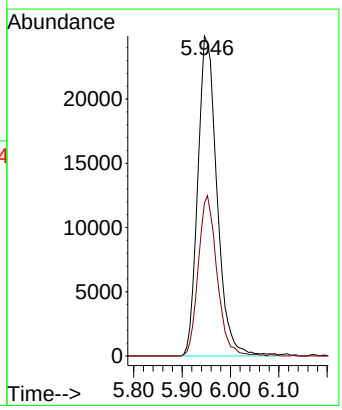


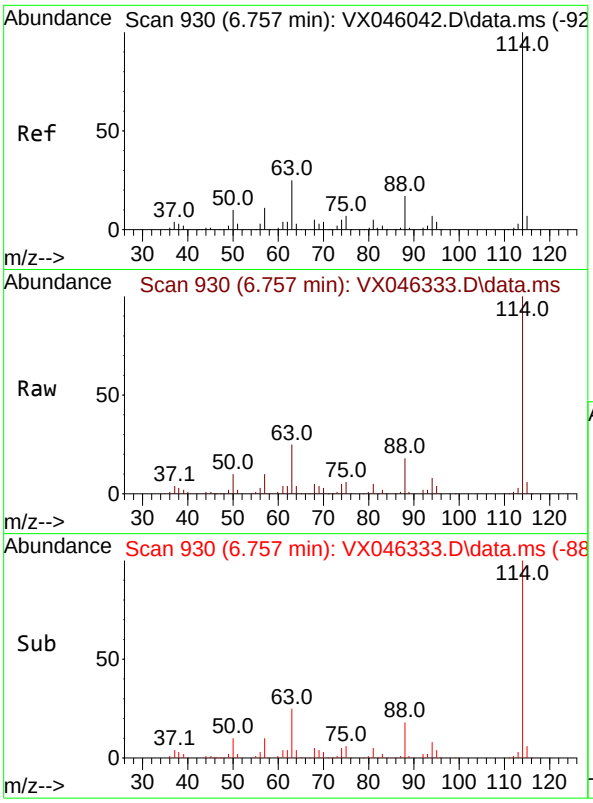


#33
1,2-Dichloroethane-d4
Concen: 53.236 ug/l
RT: 5.946 min Scan# 797
Delta R.T. -0.006 min
Lab File: VX046333.D
Acq: 23 May 2025 10:16

Tgt Ion: 65 Resp: 68649

Ion	Ratio	Lower	Upper
65	100		
67	49.0	0.0	99.0



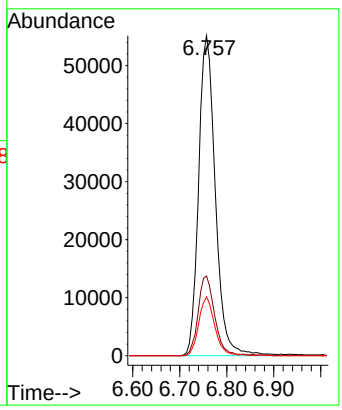


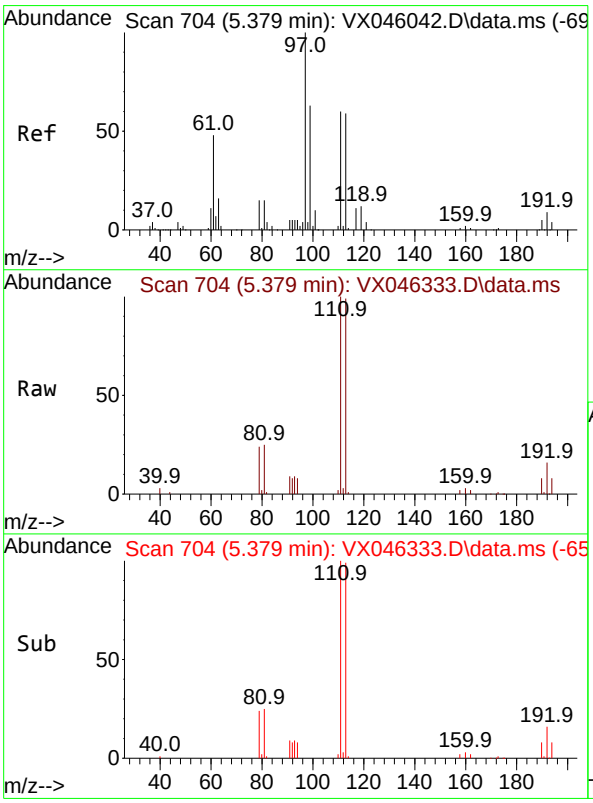
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 9
Delta R.T. 0.000 min
Lab File: VX046333.D
Acq: 23 May 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBL01

Tgt Ion:114 Resp: 136383

Ion	Ratio	Lower	Upper
114	100		
63	24.9	0.0	49.2
88	18.4	0.0	33.6

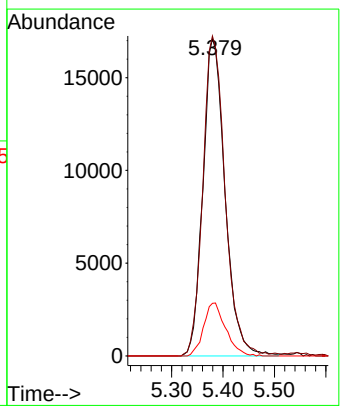


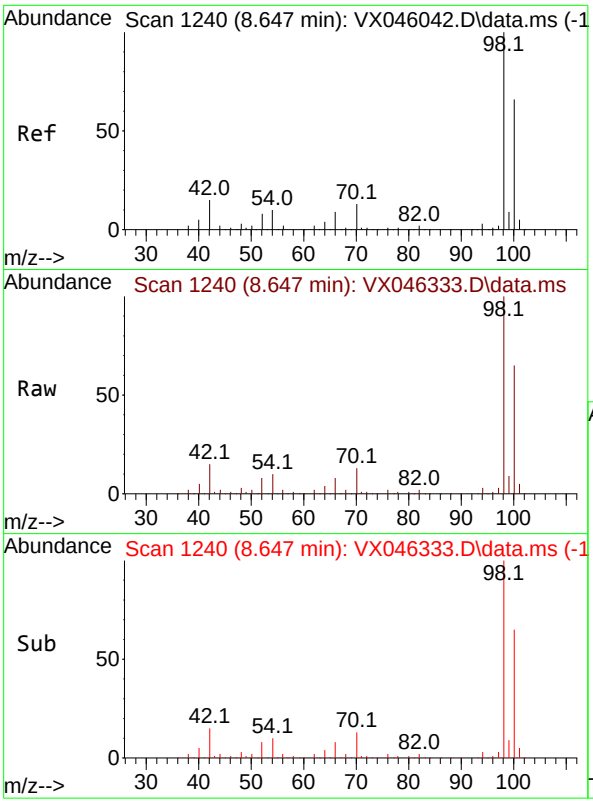


#35
Dibromofluoromethane
Concen: 51.991 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.000 min
Lab File: VX046333.D
Acq: 23 May 2025 10:16

Tgt Ion:113 Resp: 51060

Ion	Ratio	Lower	Upper
113	100		
111	101.2	83.1	124.7
192	16.7	13.3	19.9



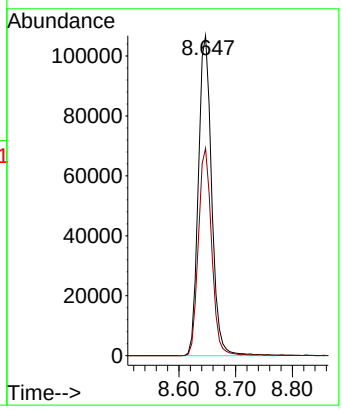


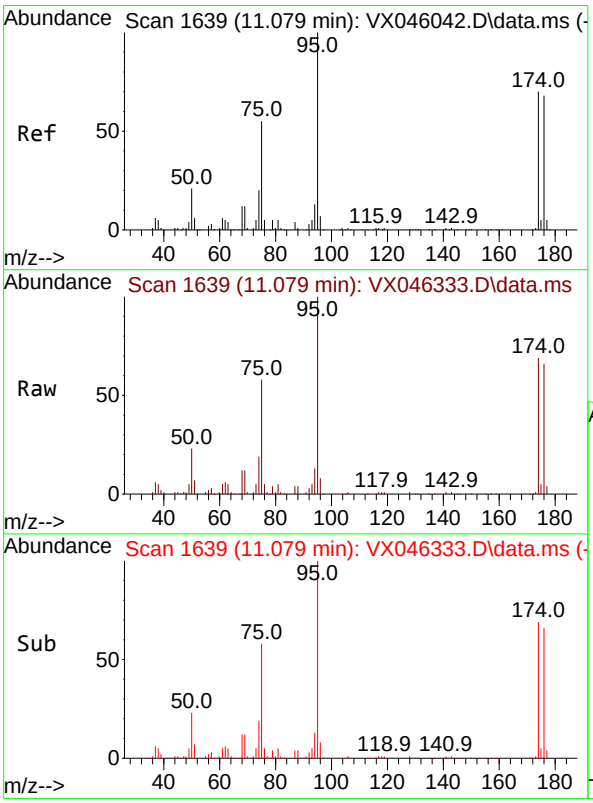
#50
Toluene-d8
Concen: 51.115 ug/l
RT: 8.647 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046333.D
Acq: 23 May 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBL01

Tgt Ion: 98 Resp: 173751

Ion	Ratio	Lower	Upper
98	100		
100	65.2	53.5	80.3

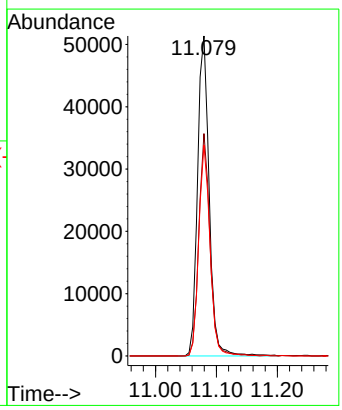


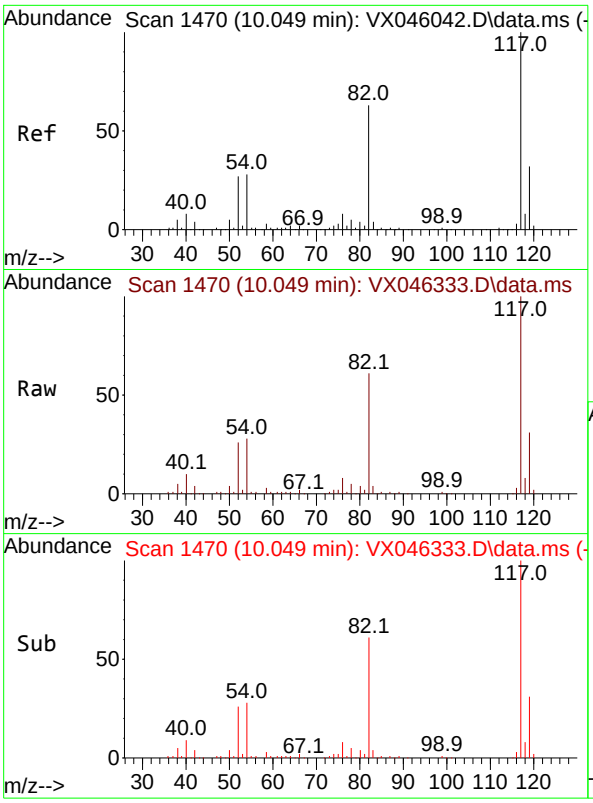


#62
4-Bromofluorobenzene
Concen: 51.920 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX046333.D
Acq: 23 May 2025 10:16

Tgt Ion: 95 Resp: 67697

Ion	Ratio	Lower	Upper
95	100		
174	67.1	0.0	135.8
176	64.3	0.0	131.4



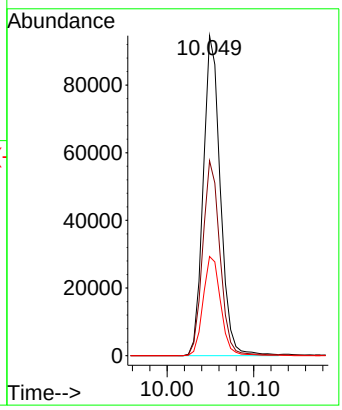


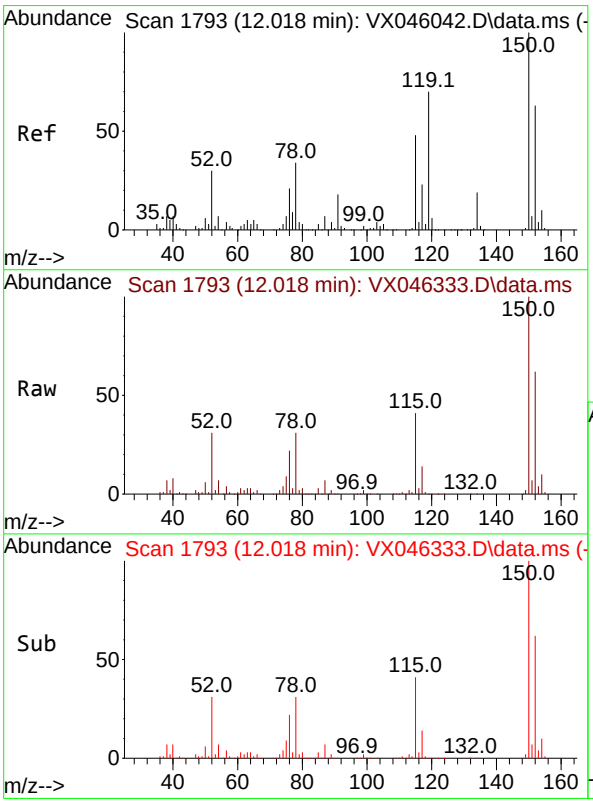
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX046333.D
Acq: 23 May 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBL01

Tgt Ion:117 Resp: 129888

Ion	Ratio	Lower	Upper
117	100		
82	60.9	50.6	76.0
119	31.0	25.8	38.6

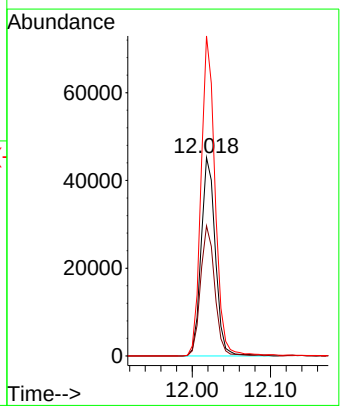




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX046333.D
Acq: 23 May 2025 10:16

Tgt Ion:152 Resp: 57102

Ion	Ratio	Lower	Upper
152	100		
115	65.8	46.9	140.7
150	158.9	0.0	351.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046333.D
Acq On : 23 May 2025 10:16
Operator : JC/MD
Sample : VX0523WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBL01

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Title : SW846 8260

Signal : TIC: VX046333.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.581	69	81	82	rBV4	4710	12137	2.48%	0.467%
2	5.379	692	704	721	rBV	57790	172122	35.23%	6.617%
3	5.544	721	731	748	rVV2	80958	233717	47.84%	8.985%
4	5.952	788	798	814	rBV	65357	179386	36.72%	6.896%
5	6.757	920	930	953	rBV	143790	350200	71.68%	13.463%
6	8.647	1233	1240	1261	rBV	297478	488572	100.00%	18.783%
7	10.049	1465	1470	1483	rBV	320340	442559	90.58%	17.014%
8	11.079	1634	1639	1649	rBV	254212	329326	67.41%	12.661%
9	12.018	1788	1793	1808	rBV	316423	393184	80.48%	15.115%

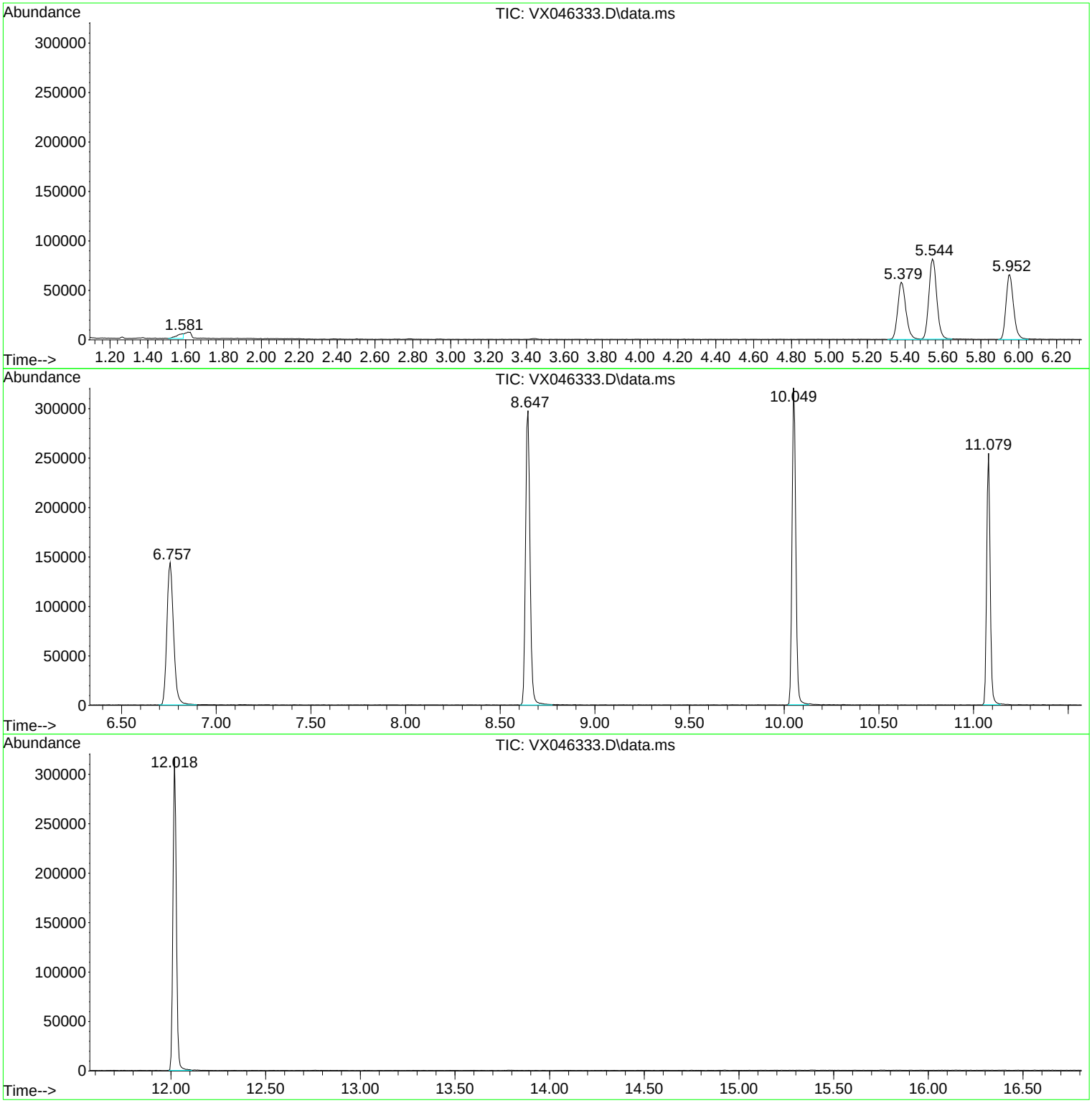
Sum of corrected areas: 2601203

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046333.D
Acq On : 23 May 2025 10:16
Operator : JC/MD
Sample : VX0523WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046333.D
Acq On : 23 May 2025 10:16
Operator : JC/MD
Sample : VX0523WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046333.D
Acq On : 23 May 2025 10:16
Operator : JC/MD
Sample : VX0523WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	VY0523SBL01	SDG No.:	Q2118
Lab Sample ID:	VY0523SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022408.D	1		05/23/25 15:26	VY052325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
74-87-3	Chloromethane	2.50	U	1.10	2.50	5.00	ug/Kg
75-01-4	Vinyl Chloride	2.50	U	0.79	2.50	5.00	ug/Kg
74-83-9	Bromomethane	4.00	U	1.10	4.00	5.00	ug/Kg
75-00-3	Chloroethane	2.50	U	1.30	2.50	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	4.00	U	1.20	4.00	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	2.50	U	1.10	2.50	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	2.50	U	1.00	2.50	5.00	ug/Kg
67-64-1	Acetone	20.0	U	4.70	20.0	25.0	ug/Kg
75-15-0	Carbon Disulfide	4.00	U	1.10	4.00	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	2.50	U	0.73	2.50	5.00	ug/Kg
75-09-2	Methylene Chloride	8.00	U	3.50	8.00	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	2.50	U	0.86	2.50	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	2.50	U	0.80	2.50	5.00	ug/Kg
78-93-3	2-Butanone	20.0	U	6.50	20.0	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	2.50	U	0.97	2.50	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	2.50	U	0.75	2.50	5.00	ug/Kg
67-66-3	Chloroform	4.00	U	0.84	4.00	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	2.50	U	0.93	2.50	5.00	ug/Kg
108-87-2	Methylcyclohexane	2.50	U	0.91	2.50	5.00	ug/Kg
71-43-2	Benzene	2.50	U	0.79	2.50	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	2.50	U	0.79	2.50	5.00	ug/Kg
79-01-6	Trichloroethene	2.50	U	0.81	2.50	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	2.50	U	0.91	2.50	5.00	ug/Kg
75-27-4	Bromodichloromethane	2.50	U	0.78	2.50	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	12.5	U	3.60	12.5	25.0	ug/Kg
108-88-3	Toluene	2.50	U	0.78	2.50	5.00	ug/Kg
10061-02-6	t-1,3-Dichloropropene	2.50	U	0.65	2.50	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	2.50	U	0.62	2.50	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	2.50	U	0.92	2.50	5.00	ug/Kg
591-78-6	2-Hexanone	12.5	U	3.70	12.5	25.0	ug/Kg

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	VY0523SBL01	SDG No.:	Q2118
Lab Sample ID:	VY0523SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022408.D	1		05/23/25 15:26	VY052325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
124-48-1	Dibromochloromethane	2.50	U	0.87	2.50	5.00	ug/Kg
127-18-4	Tetrachloroethene	2.50	U	1.10	2.50	5.00	ug/Kg
108-90-7	Chlorobenzene	2.50	U	0.91	2.50	5.00	ug/Kg
100-41-4	Ethyl Benzene	2.50	U	0.67	2.50	5.00	ug/Kg
179601-23-1	m/p-Xylenes	5.00	U	1.20	5.00	10.0	ug/Kg
95-47-6	o-Xylene	2.50	U	0.82	2.50	5.00	ug/Kg
100-42-5	Styrene	2.50	U	0.71	2.50	5.00	ug/Kg
75-25-2	Bromoform	2.50	U	0.86	2.50	5.00	ug/Kg
98-82-8	Isopropylbenzene	2.50	U	0.78	2.50	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	2.50	U	1.20	2.50	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	2.50	U	1.70	2.50	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	2.50	U	1.60	2.50	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	2.50	U	1.50	2.50	5.00	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	56.1		71 - 136		112%	SPK: 50
1868-53-7	Dibromofluoromethane	56.7		78 - 119		113%	SPK: 50
2037-26-5	Toluene-d8	54.7		85 - 116		109%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.0		79 - 119		88%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	329000	7.713				
540-36-3	1,4-Difluorobenzene	591000	8.621				
3114-55-4	Chlorobenzene-d5	465000	11.42				
3855-82-1	1,4-Dichlorobenzene-d4	167000	13.352				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022408.D
Acq On : 23 May 2025 15:26
Operator : SY/MD
Sample : VY0523SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBL01

Quant Time: May 23 23:20:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

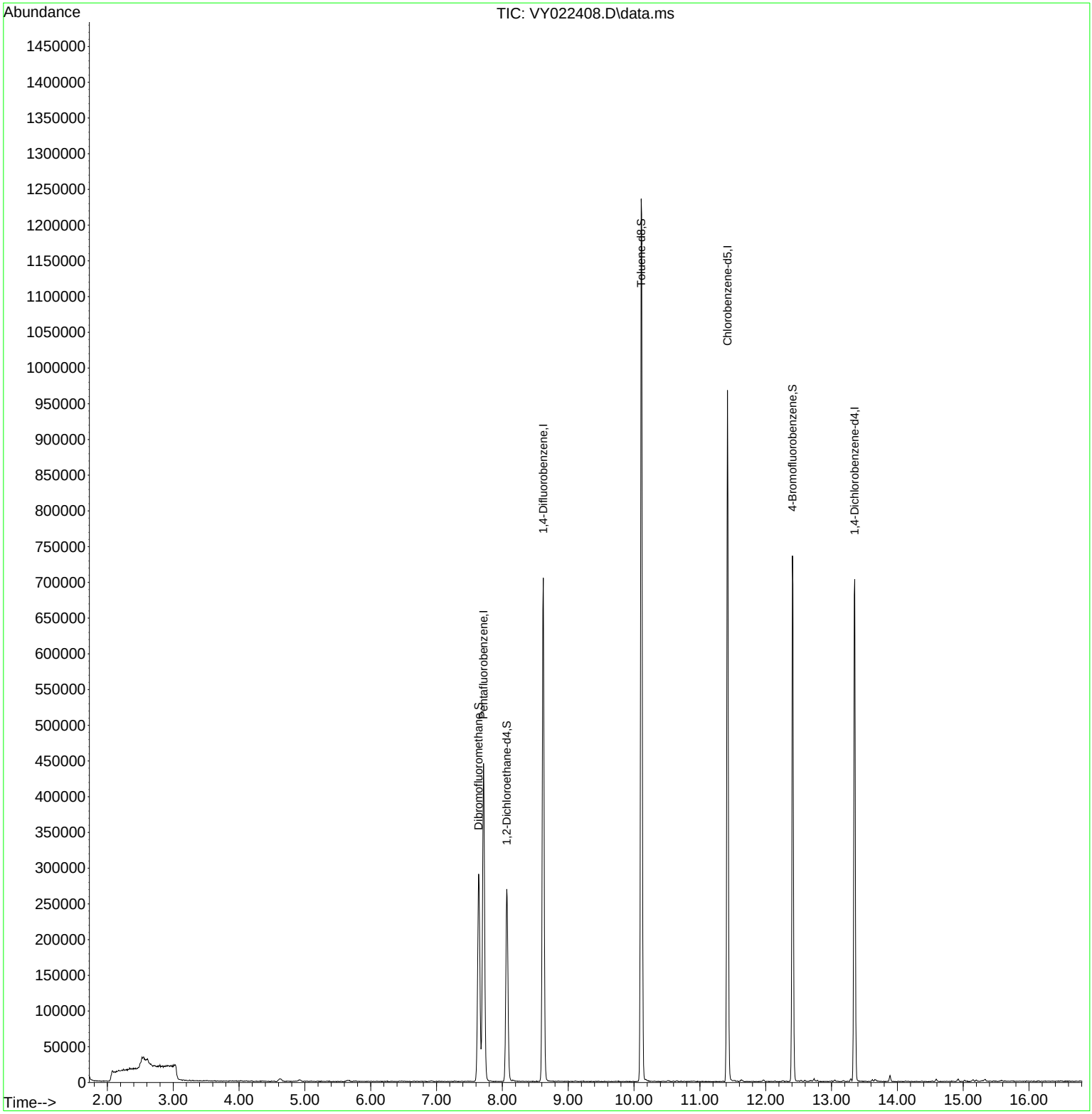
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	328707	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.621	114	590839	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	465211	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.352	152	167300	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	201654	56.133	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 112.260%			
35) Dibromofluoromethane	7.640	113	200071	56.734	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 113.460%			
50) Toluene-d8	10.109	98	790680	54.745	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 109.500%			
62) 4-Bromofluorobenzene	12.407	95	201473	44.010	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 88.020%			
Target Compounds						Qvalue

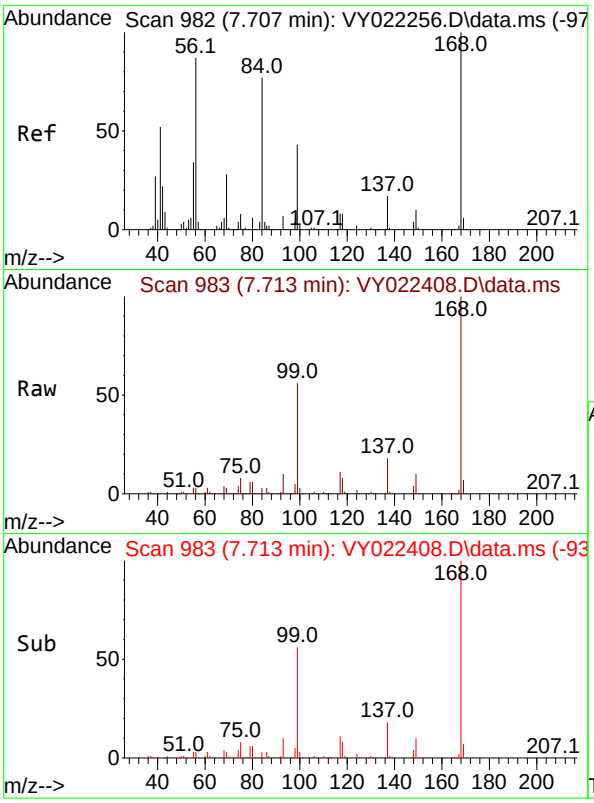
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022408.D
Acq On : 23 May 2025 15:26
Operator : SY/MD
Sample : VY0523SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBL01

Quant Time: May 23 23:20:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration



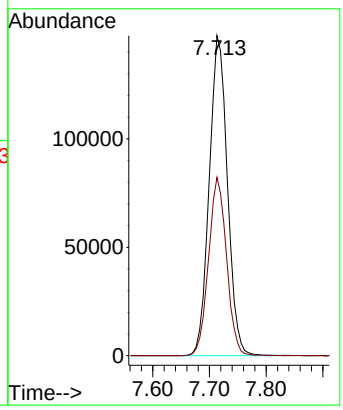


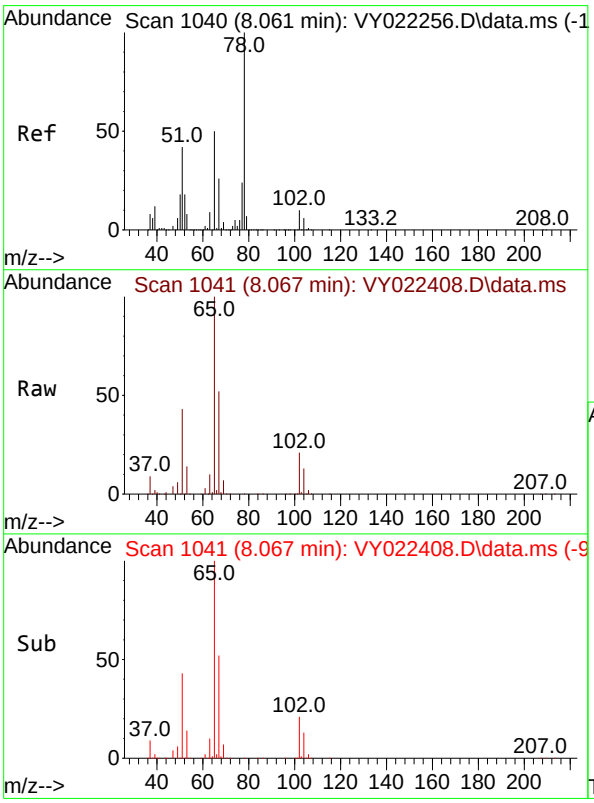
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY022408.D
Acq: 23 May 2025 15:26

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBL01

Tgt Ion:168 Resp: 328707

Ion	Ratio	Lower	Upper
168	100		
99	55.7	44.2	66.4

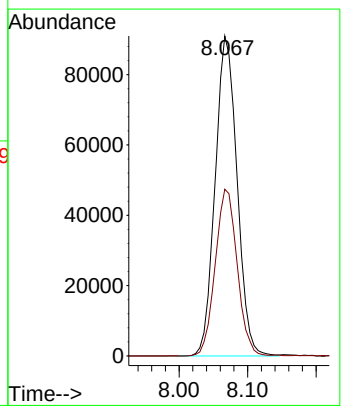


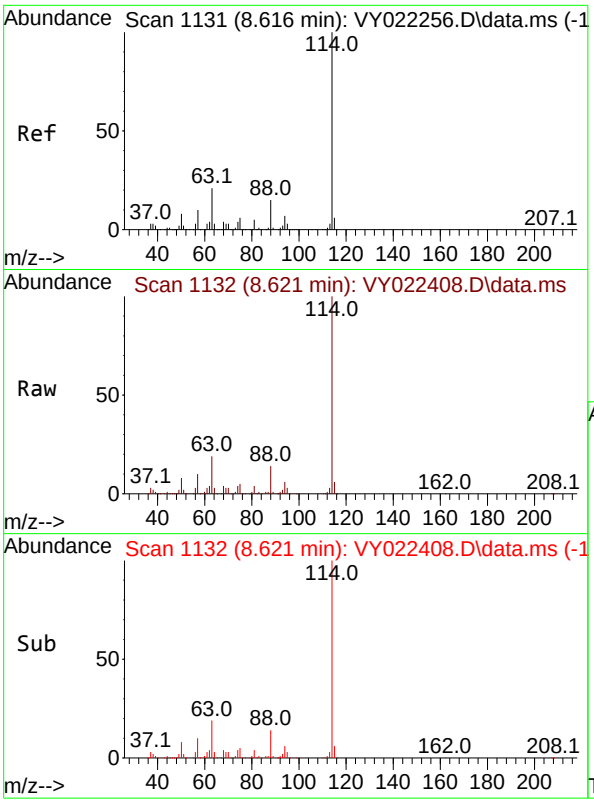


#33
1,2-Dichloroethane-d4
Concen: 56.133 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. 0.006 min
Lab File: VY022408.D
Acq: 23 May 2025 15:26

Tgt Ion: 65 Resp: 201654

Ion	Ratio	Lower	Upper
65	100		
67	52.4	0.0	104.6



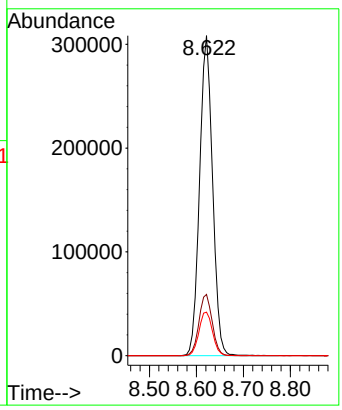


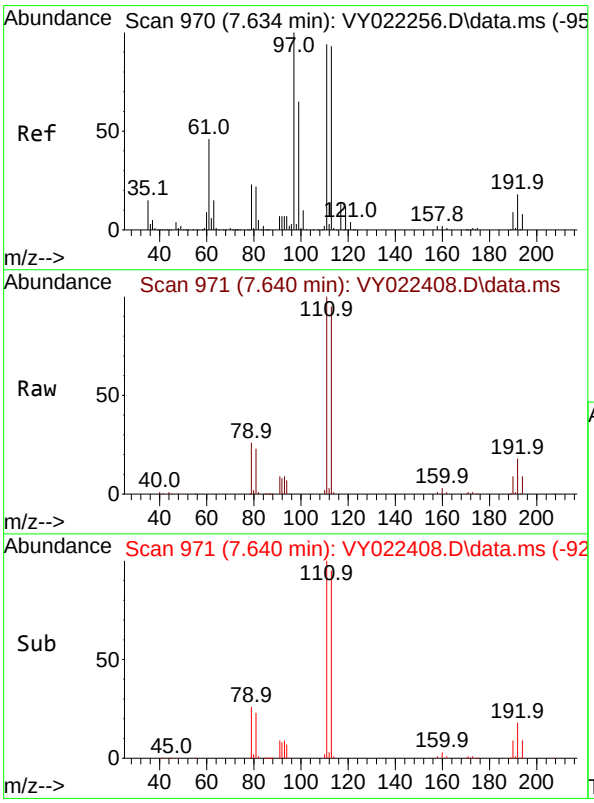
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.621 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY022408.D
Acq: 23 May 2025 15:26

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBL01

Tgt Ion:114 Resp: 590839

Ion	Ratio	Lower	Upper
114	100		
63	19.2	0.0	41.0
88	13.6	0.0	29.4

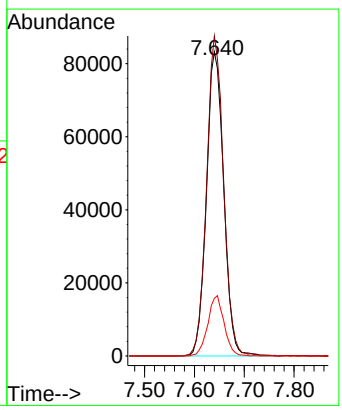


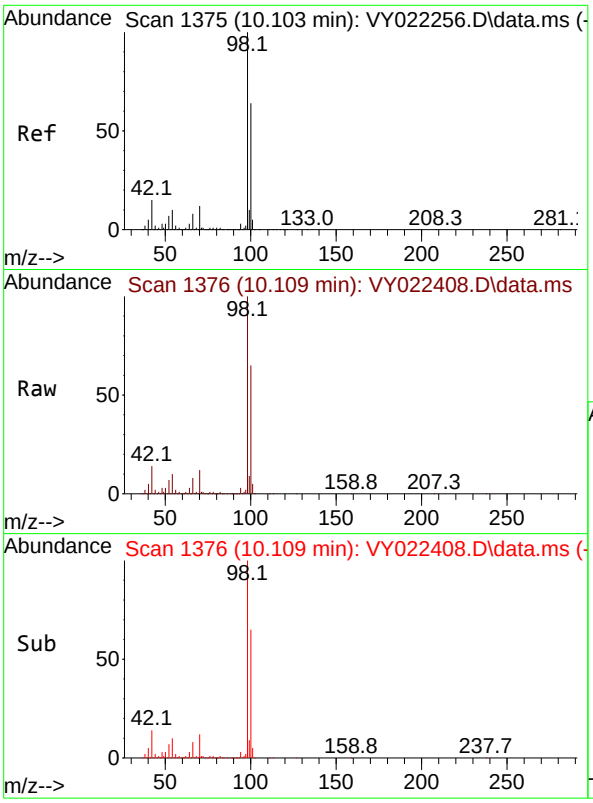


#35
Dibromofluoromethane
Concen: 56.734 ug/l
RT: 7.640 min Scan# 971
Delta R.T. 0.006 min
Lab File: VY022408.D
Acq: 23 May 2025 15:26

Tgt Ion:113 Resp: 200071

Ion	Ratio	Lower	Upper
113	100		
111	103.7	82.6	123.8
192	18.7	15.2	22.8



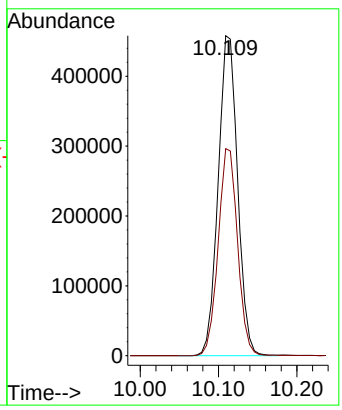


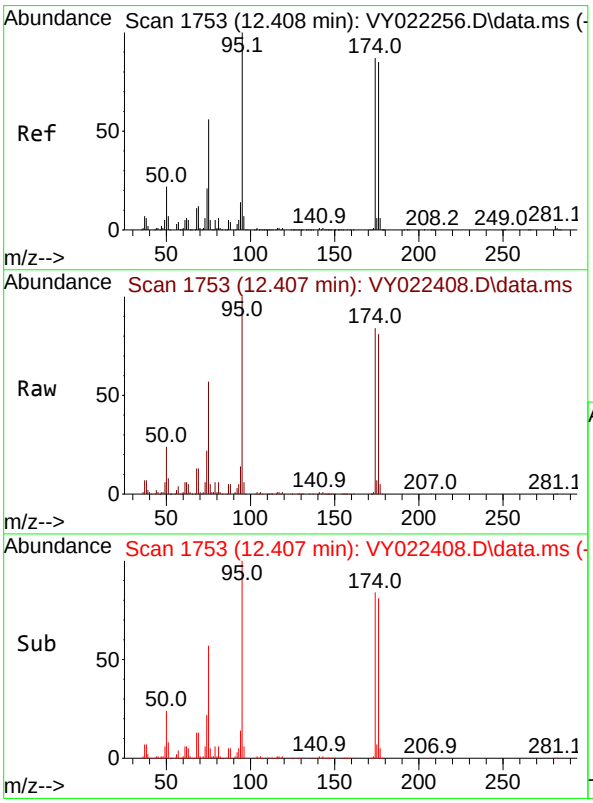
#50
Toluene-d8
Concen: 54.745 ug/l
RT: 10.109 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022408.D
Acq: 23 May 2025 15:26

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBL01

Tgt Ion: 98 Resp: 790680

Ion	Ratio	Lower	Upper
98	100		
100	64.7	51.8	77.8

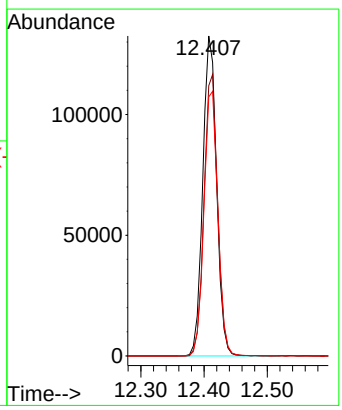


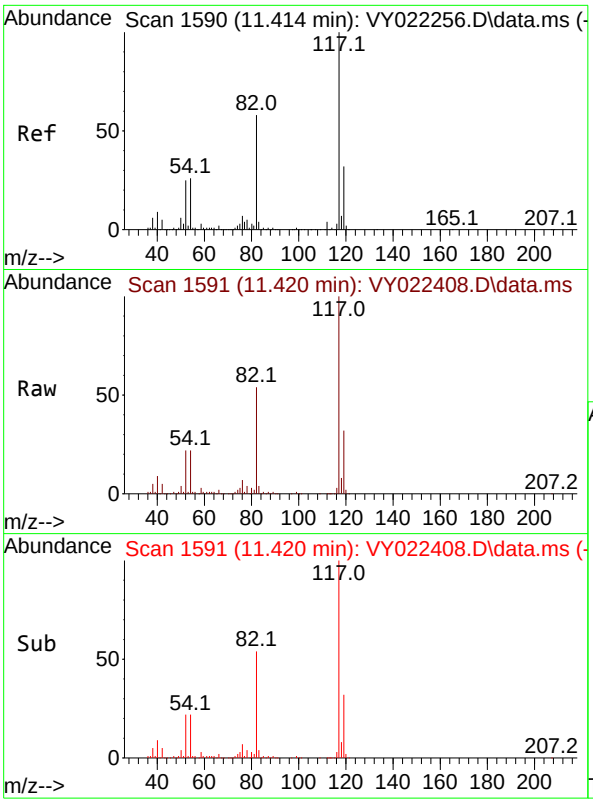


#62
4-Bromofluorobenzene
Concen: 44.010 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. -0.000 min
Lab File: VY022408.D
Acq: 23 May 2025 15:26

Tgt Ion: 95 Resp: 201473

Ion	Ratio	Lower	Upper
95	100		
174	87.0	0.0	166.8
176	84.0	0.0	160.8



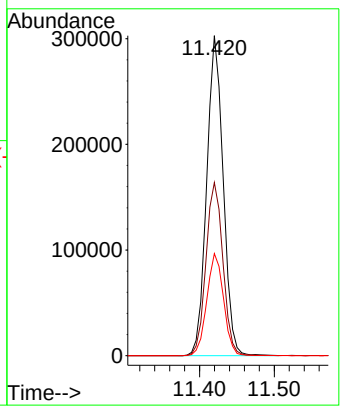


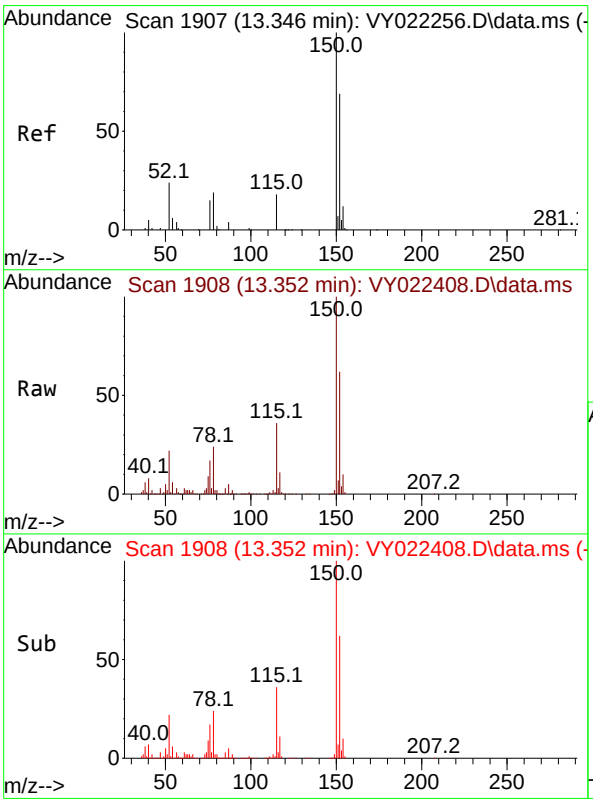
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022408.D
Acq: 23 May 2025 15:26

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBL01

Tgt Ion:117 Resp: 465211

Ion	Ratio	Lower	Upper
117	100		
82	54.1	46.6	70.0
119	31.9	25.8	38.6

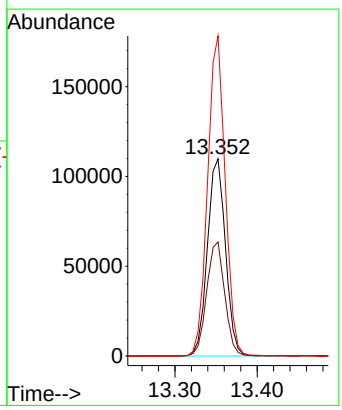




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.352 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY022408.D
Acq: 23 May 2025 15:26

Tgt Ion:152 Resp: 167300

Ion	Ratio	Lower	Upper
152	100		
115	58.0	29.4	88.2
150	158.2	0.0	353.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022408.D
Acq On : 23 May 2025 15:26
Operator : SY/MD
Sample : VY0523SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBL01

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Title : SW846 8260

Signal : TIC: VY022408.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.074	51	58	61	rBV2	14359	33111	1.55%	0.346%
2	2.525	125	132	133	rBV5	13897	23431	1.10%	0.245%
3	7.640	960	971	977	rBV2	290275	689257	32.25%	7.196%
4	7.713	977	983	998	rVB	445005	992781	46.45%	10.365%
5	8.067	1033	1041	1053	rBV	268758	596109	27.89%	6.224%
6	8.622	1122	1132	1144	rBV	704664	1377475	64.45%	14.382%
7	10.109	1368	1376	1385	rBV	1235295	2137374	100.00%	22.315%
8	11.420	1583	1591	1604	rBV	967755	1515565	70.91%	15.823%
9	12.407	1746	1753	1762	rBV	735653	1125815	52.67%	11.754%
10	13.352	1901	1908	1918	rVB	702177	1087181	50.87%	11.351%

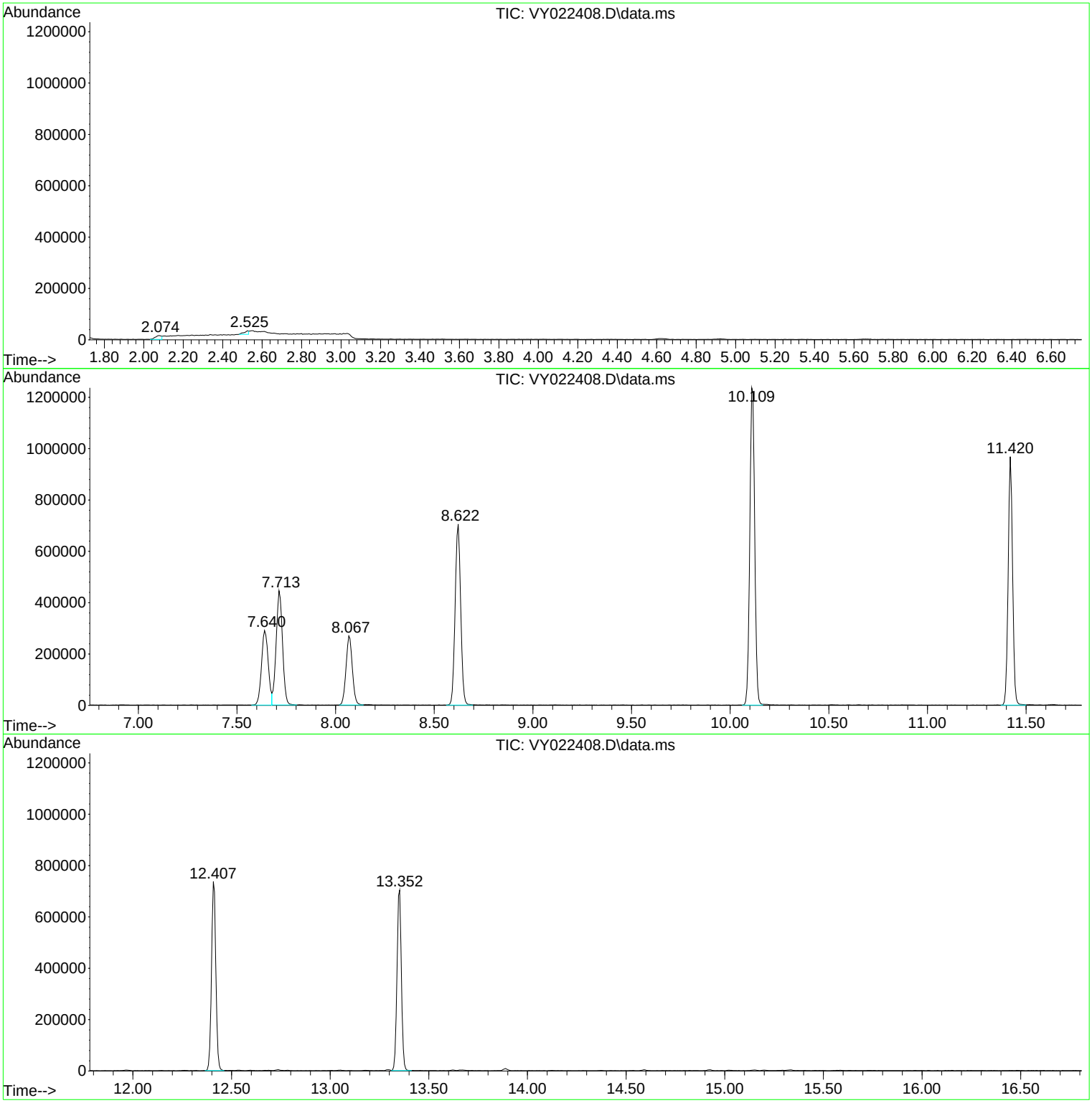
Sum of corrected areas: 9578099

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022408.D
Acq On : 23 May 2025 15:26
Operator : SY/MD
Sample : VY0523SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022408.D
Acq On : 23 May 2025 15:26
Operator : SY/MD
Sample : VY0523SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022408.D
Acq On : 23 May 2025 15:26
Operator : SY/MD
Sample : VY0523SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	VY0527SBL01	SDG No.:	Q2118
Lab Sample ID:	VY0527SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022429.D	1		05/27/25 13:12	VY052725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
74-87-3	Chloromethane	2.50	U	1.10	2.50	5.00	ug/Kg
75-01-4	Vinyl Chloride	2.50	U	0.79	2.50	5.00	ug/Kg
74-83-9	Bromomethane	4.00	U	1.10	4.00	5.00	ug/Kg
75-00-3	Chloroethane	2.50	U	1.30	2.50	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	4.00	U	1.20	4.00	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	2.50	U	1.10	2.50	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	2.50	U	1.00	2.50	5.00	ug/Kg
67-64-1	Acetone	20.0	U	4.70	20.0	25.0	ug/Kg
75-15-0	Carbon Disulfide	4.00	U	1.10	4.00	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	2.50	U	0.73	2.50	5.00	ug/Kg
75-09-2	Methylene Chloride	8.00	U	3.50	8.00	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	2.50	U	0.86	2.50	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	2.50	U	0.80	2.50	5.00	ug/Kg
78-93-3	2-Butanone	20.0	U	6.50	20.0	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	2.50	U	0.97	2.50	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	2.50	U	0.75	2.50	5.00	ug/Kg
67-66-3	Chloroform	4.00	U	0.84	4.00	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	2.50	U	0.93	2.50	5.00	ug/Kg
108-87-2	Methylcyclohexane	2.50	U	0.91	2.50	5.00	ug/Kg
71-43-2	Benzene	2.50	U	0.79	2.50	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	2.50	U	0.79	2.50	5.00	ug/Kg
79-01-6	Trichloroethene	2.50	U	0.81	2.50	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	2.50	U	0.91	2.50	5.00	ug/Kg
75-27-4	Bromodichloromethane	2.50	U	0.78	2.50	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	12.5	U	3.60	12.5	25.0	ug/Kg
108-88-3	Toluene	2.50	U	0.78	2.50	5.00	ug/Kg
10061-02-6	t-1,3-Dichloropropene	2.50	U	0.65	2.50	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	2.50	U	0.62	2.50	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	2.50	U	0.92	2.50	5.00	ug/Kg
591-78-6	2-Hexanone	12.5	U	3.70	12.5	25.0	ug/Kg

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	VY0527SBL01	SDG No.:	Q2118
Lab Sample ID:	VY0527SBL01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022429.D	1		05/27/25 13:12	VY052725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
124-48-1	Dibromochloromethane	2.50	U	0.87	2.50	5.00	ug/Kg
127-18-4	Tetrachloroethene	2.50	U	1.10	2.50	5.00	ug/Kg
108-90-7	Chlorobenzene	2.50	U	0.91	2.50	5.00	ug/Kg
100-41-4	Ethyl Benzene	2.50	U	0.67	2.50	5.00	ug/Kg
179601-23-1	m/p-Xylenes	5.00	U	1.20	5.00	10.0	ug/Kg
95-47-6	o-Xylene	2.50	U	0.82	2.50	5.00	ug/Kg
100-42-5	Styrene	2.50	U	0.71	2.50	5.00	ug/Kg
75-25-2	Bromoform	2.50	U	0.86	2.50	5.00	ug/Kg
98-82-8	Isopropylbenzene	2.50	U	0.78	2.50	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	2.50	U	1.20	2.50	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	2.50	U	1.70	2.50	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	2.50	U	1.60	2.50	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	2.50	U	1.50	2.50	5.00	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	51.0		71 - 136		102%	SPK: 50
1868-53-7	Dibromofluoromethane	50.9		78 - 119		102%	SPK: 50
2037-26-5	Toluene-d8	50.2		85 - 116		100%	SPK: 50
460-00-4	4-Bromofluorobenzene	42.8		79 - 119		86%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	352000	7.707				
540-36-3	1,4-Difluorobenzene	631000	8.615				
3114-55-4	Chlorobenzene-d5	510000	11.414				
3855-82-1	1,4-Dichlorobenzene-d4	194000	13.346				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022429.D
Acq On : 27 May 2025 13:12
Operator : SY/MD
Sample : VY0527SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBL01

Quant Time: May 28 11:05:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	351784	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	631221	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	510103	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	193960	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	188929	50.988	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 101.980%			
35) Dibromofluoromethane	7.634	113	188196	50.910	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 101.820%			
50) Toluene-d8	10.109	98	755822	50.156	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 100.320%			
62) 4-Bromofluorobenzene	12.407	95	195169	42.816	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 85.640%			

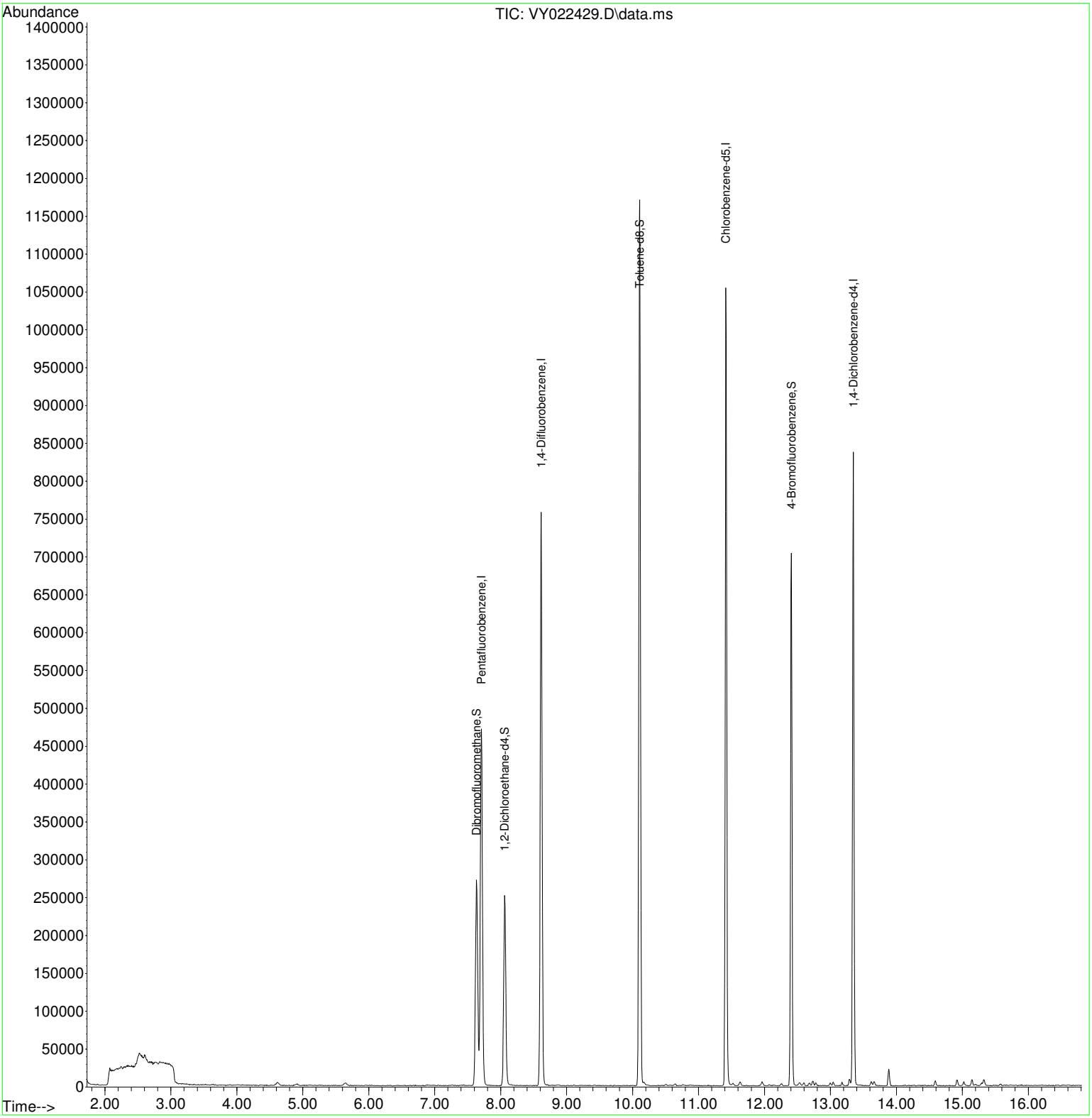
Target Compounds Qvalue

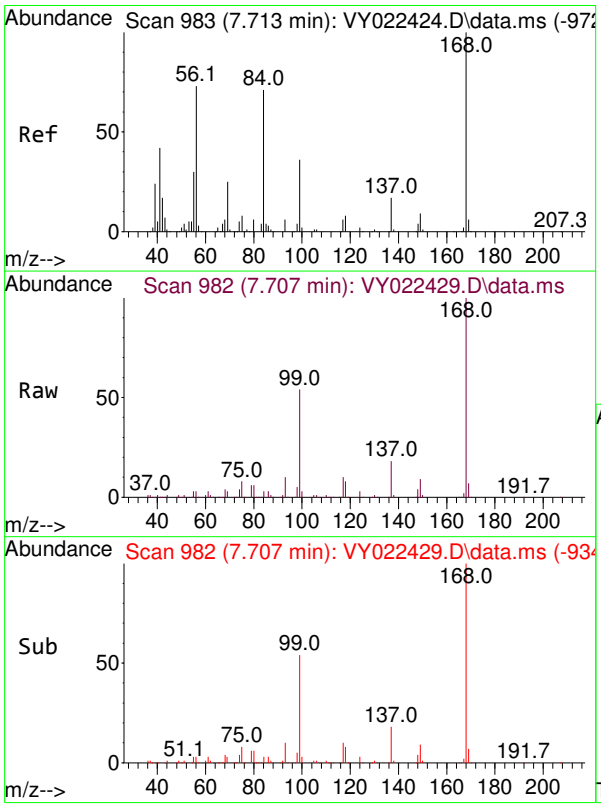
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022429.D
Acq On : 27 May 2025 13:12
Operator : SY/MD
Sample : VY0527SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBL01

Quant Time: May 28 11:05:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration



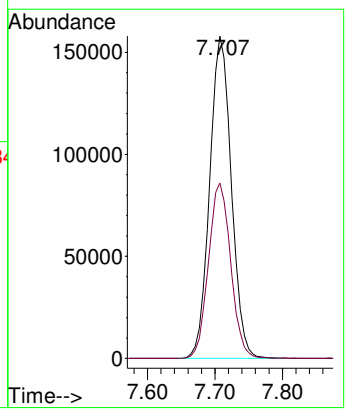


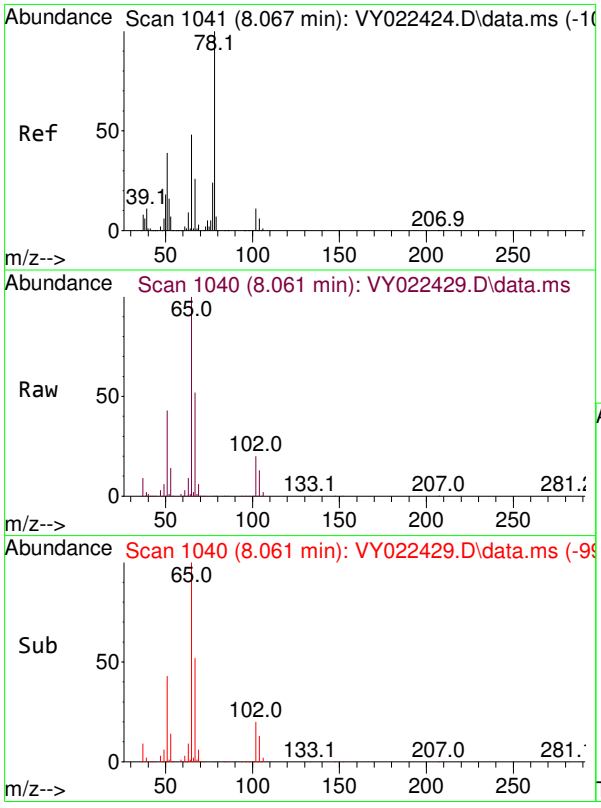
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY022429.D
Acq: 27 May 2025 13:12

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBL01

Tgt Ion:168 Resp: 351784

Ion	Ratio	Lower	Upper
168	100		
99	54.5	44.7	67.1

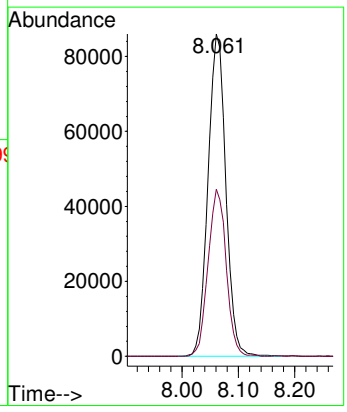


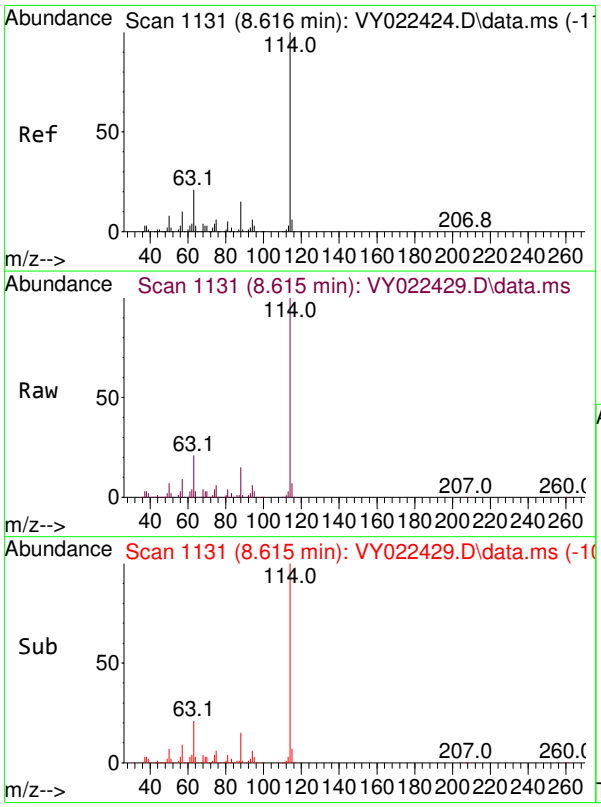


#33
1,2-Dichloroethane-d4
Concen: 50.988 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.006 min
Lab File: VY022429.D
Acq: 27 May 2025 13:12

Tgt Ion: 65 Resp: 188929

Ion	Ratio	Lower	Upper
65	100		
67	52.7	0.0	104.4



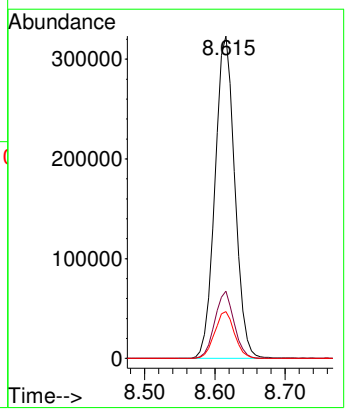


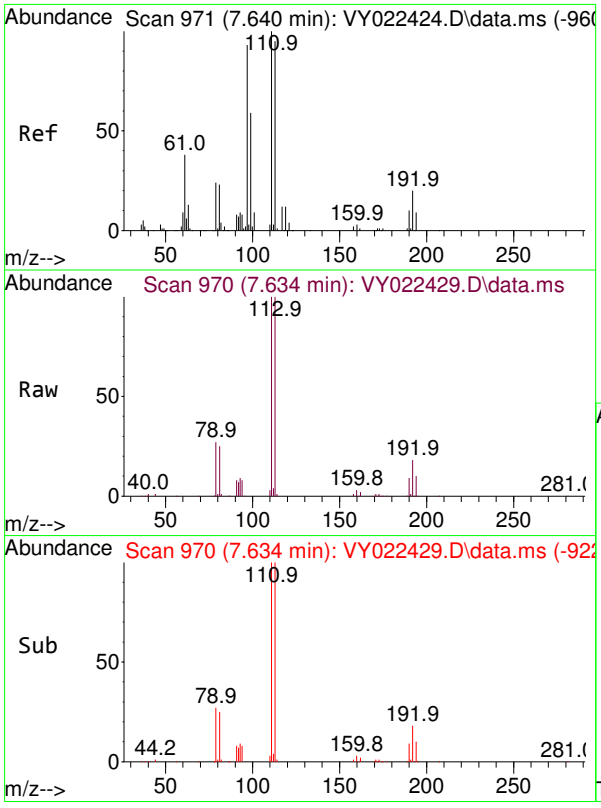
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022429.D
Acq: 27 May 2025 13:12

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBL01

Tgt Ion:114 Resp: 631221

Ion	Ratio	Lower	Upper
114	100		
63	20.9	0.0	42.6
88	14.6	0.0	29.4

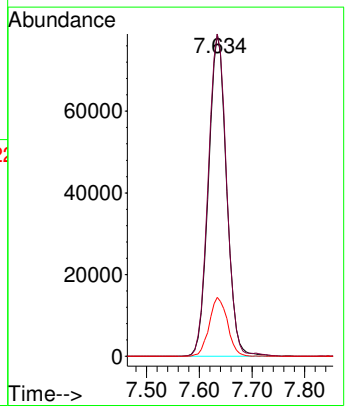


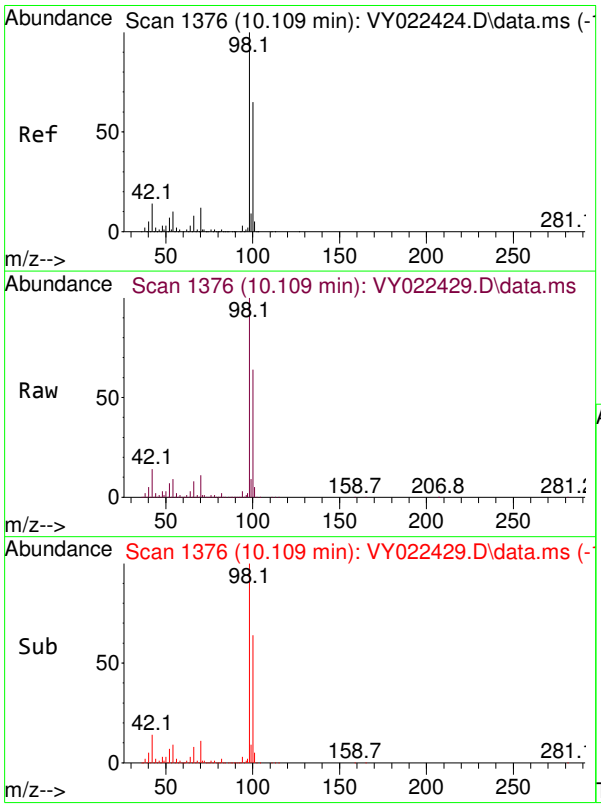


#35
Dibromofluoromethane
Concen: 50.910 ug/l
RT: 7.634 min Scan# 970
Delta R.T. -0.006 min
Lab File: VY022429.D
Acq: 27 May 2025 13:12

Tgt Ion:113 Resp: 188196

Ion	Ratio	Lower	Upper
113	100		
111	102.1	82.4	123.6
192	18.5	15.2	22.8



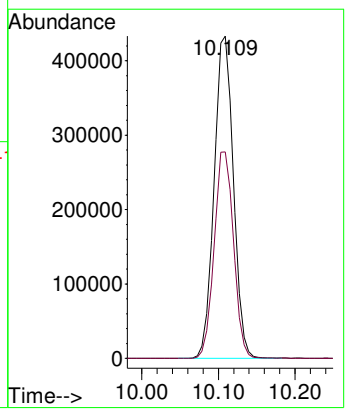


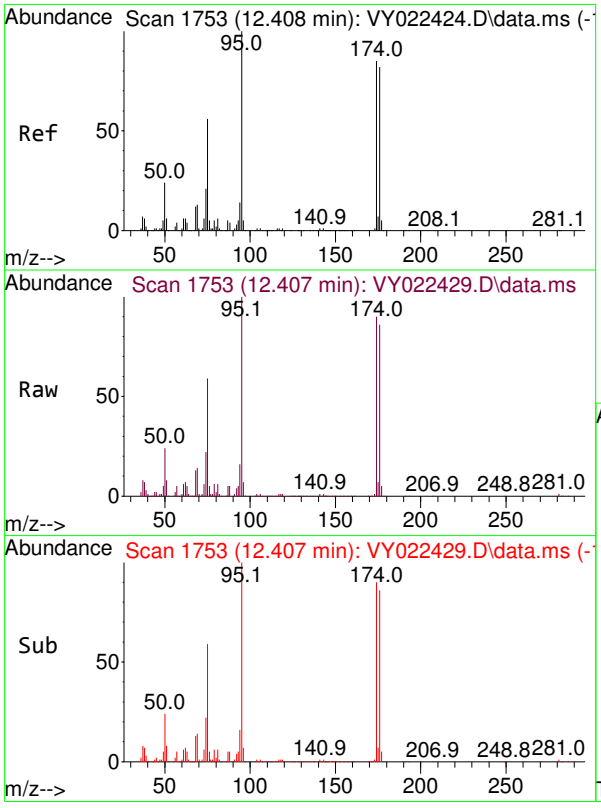
#50
Toluene-d8
Concen: 50.156 ug/l
RT: 10.109 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022429.D
Acq: 27 May 2025 13:12

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBL01

Tgt Ion: 98 Resp: 755822

Ion	Ratio	Lower	Upper
98	100		
100	64.5	52.2	78.2

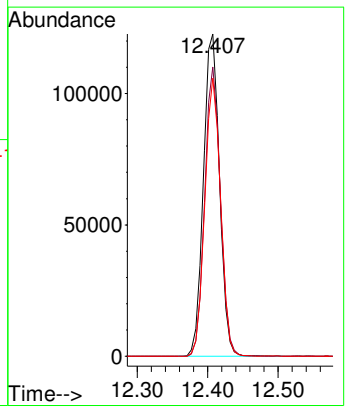


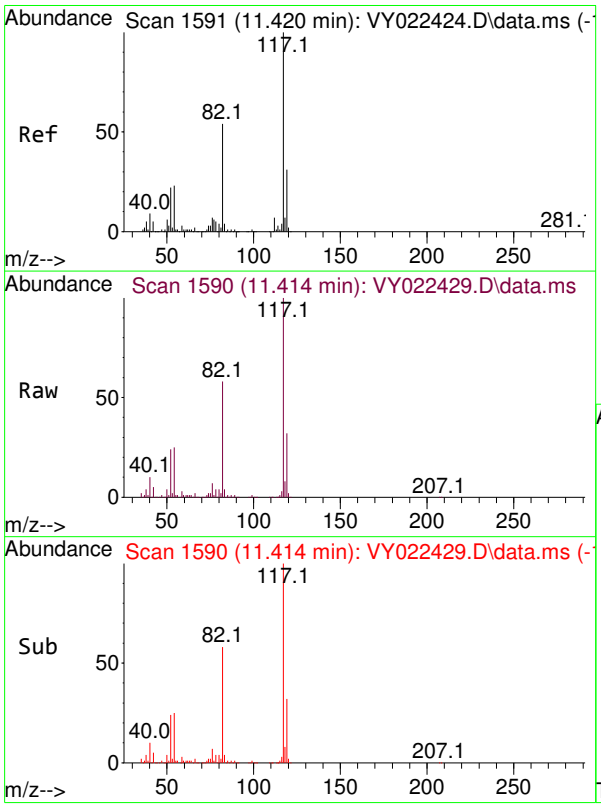


#62
4-Bromofluorobenzene
Concen: 42.816 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. -0.000 min
Lab File: VY022429.D
Acq: 27 May 2025 13:12

Tgt Ion: 95 Resp: 195169

Ion	Ratio	Lower	Upper
95	100		
174	87.4	0.0	171.6
176	84.7	0.0	164.6



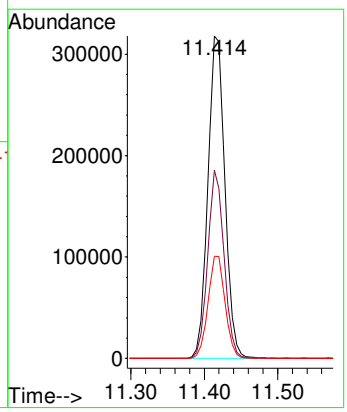


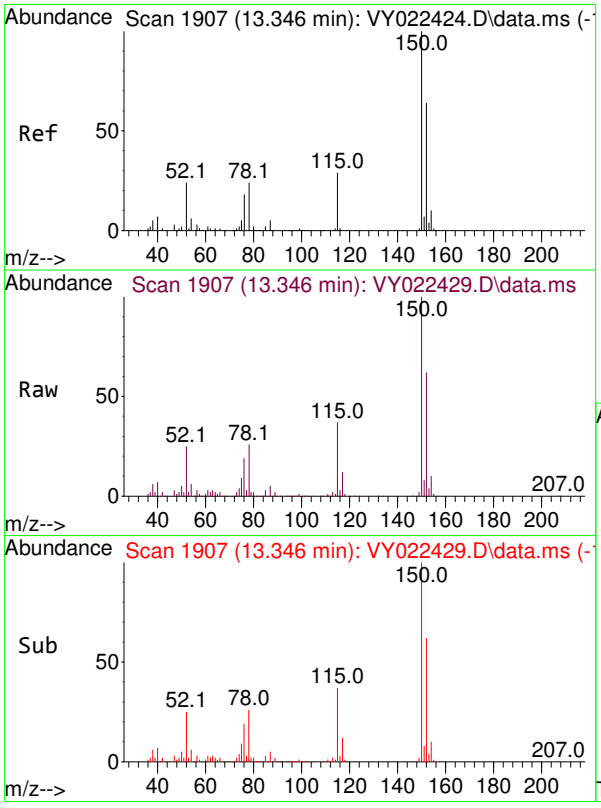
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022429.D
Acq: 27 May 2025 13:12

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBL01

Tgt Ion:117 Resp: 510103

Ion	Ratio	Lower	Upper
117	100		
82	58.4	43.3	64.9
119	31.7	24.5	36.7

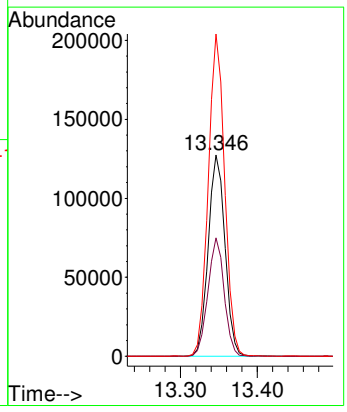




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY022429.D
Acq: 27 May 2025 13:12

Tgt Ion:152 Resp: 193960

Ion	Ratio	Lower	Upper
152	100		
115	57.0	28.4	85.3
150	156.6	0.0	345.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022429.D
Acq On : 27 May 2025 13:12
Operator : SY/MD
Sample : VY0527SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBL01

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Title : SW846 8260

Signal : TIC: VY022429.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.074	50	58	60	rBV4	22604	44150	2.15%	0.442%
2	2.519	124	131	132	rBV6	14573	27650	1.35%	0.277%
3	7.634	959	970	976	rBV	271490	650343	31.70%	6.516%
4	7.707	976	982	997	rVB	471137	1062072	51.76%	10.642%
5	8.061	1031	1040	1055	rBV	251282	564602	27.52%	5.657%
6	8.615	1120	1131	1143	rBV	757837	1491633	72.70%	14.946%
7	10.109	1366	1376	1383	rBV	1170485	2051836	100.00%	20.560%
8	11.414	1580	1590	1603	rBV	1054129	1670812	81.43%	16.742%
9	12.407	1746	1753	1765	rBV	703312	1115406	54.36%	11.176%
10	13.346	1901	1907	1919	rVB	836859	1265363	61.67%	12.679%
11	13.883	1990	1995	2001	rVB	22244	36115	1.76%	0.362%

Sum of corrected areas: 9979982

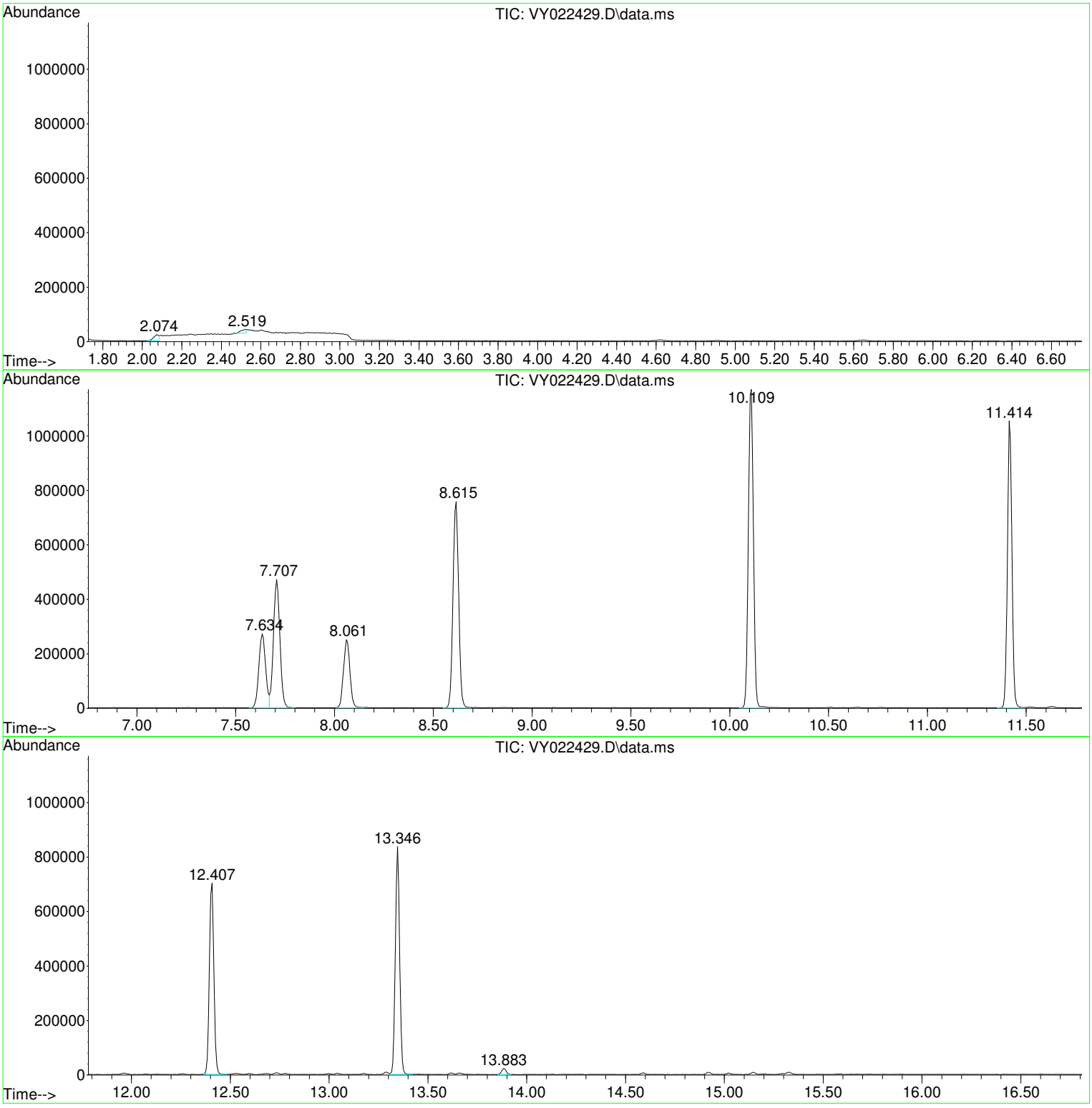
Sample Results: **VY022429.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022429.D
Acq On : 27 May 2025 13:12
Operator : SY/MD
Sample : VY0527SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022429.D
Acq On : 27 May 2025 13:12
Operator : SY/MD
Sample : VY0527SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022429.D
Acq On : 27 May 2025 13:12
Operator : SY/MD
Sample : VY0527SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	VX0523WBS01	SDG No.:	Q2118
Lab Sample ID:	VX0523WBS01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046334.D	1		05/23/25 10:57	VX052325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	18.7		0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	17.8		0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	18.3		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	19.2		0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	19.9		0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	20.1		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	19.3		0.23	0.75	1.00	ug/L
67-64-1	Acetone	100		1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	15.4		0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	20.7		0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	18.6		0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	19.0		0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	20.3		0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	110		0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	20.4		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	20.4		0.19	0.75	1.00	ug/L
67-66-3	Chloroform	21.0		0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	20.4		0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	18.4		0.16	0.50	1.00	ug/L
71-43-2	Benzene	20.3		0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	20.7		0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	19.8		0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	21.1		0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	20.8		0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	110		0.68	2.50	5.00	ug/L
108-88-3	Toluene	20.4		0.14	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	19.5		0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	20.7		0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	21.8		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	110		0.89	2.50	5.00	ug/L

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	VX0523WBS01	SDG No.:	Q2118
Lab Sample ID:	VX0523WBS01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046334.D	1		05/23/25 10:57	VX052325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	21.0		0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	20.9		0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	20.1		0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	20.3		0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	40.6		0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	20.5		0.12	0.50	1.00	ug/L
100-42-5	Styrene	21.0		0.15	0.50	1.00	ug/L
75-25-2	Bromoform	19.4		0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	20.2		0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	20.2		0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	20.0		0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.8		0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	20.6		0.16	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	50.5		81 - 118		101%	SPK: 50
1868-53-7	Dibromofluoromethane	52.4		80 - 119		105%	SPK: 50
2037-26-5	Toluene-d8	50.7		89 - 112		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.4		85 - 114		103%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	88800	5.544				
540-36-3	1,4-Difluorobenzene	154000	6.751				
3114-55-4	Chlorobenzene-d5	135000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	65600	12.018				

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046334.D
Acq On : 23 May 2025 10:57
Operator : JC/MD
Sample : VX0523WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 23 22:57:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	88801	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	154286	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	135355	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	65596	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	83672	50.541	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 101.080%			
35) Dibromofluoromethane	5.379	113	58176	52.363	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.720%			
50) Toluene-d8	8.641	98	194812	50.661	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.320%			
62) 4-Bromofluorobenzene	11.079	95	75851	51.423	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 102.840%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	26885	19.781	ug/l	99
3) Chloromethane	1.307	50	24599	18.663	ug/l	98
4) Vinyl Chloride	1.374	62	21875	17.833	ug/l	99
5) Bromomethane	1.599	94	10427	18.326	ug/l	95
6) Chloroethane	1.672	64	12552	19.167	ug/l	95
7) Trichlorofluoromethane	1.880	101	36086	19.905	ug/l	98
8) Diethyl Ether	2.130	74	11857	19.212	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.319	101	22550	20.099	ug/l	99
10) Methyl Iodide	2.447	142	23690	17.845	ug/l	97
11) Tert butyl alcohol	2.965	59	24727	106.404	ug/l	100
12) 1,1-Dichloroethene	2.312	96	20358	19.334	ug/l	98
13) Acrolein	2.233	56	22886	86.476	ug/l	99
14) Allyl chloride	2.654	41	40722	20.236	ug/l	98
15) Acrylonitrile	3.056	53	69823	105.077	ug/l	98
16) Acetone	2.380	43	66843	100.699	ug/l	100
17) Carbon Disulfide	2.508	76	38442	15.399	ug/l	97
18) Methyl Acetate	2.703	43	37888	24.597	ug/l	100
19) Methyl tert-butyl Ether	3.111	73	76286	20.665	ug/l	98
20) Methylene Chloride	2.782	84	23645	18.588	ug/l	98
21) trans-1,2-Dichloroethene	3.087	96	20167	19.045	ug/l	97
22) Diisopropyl ether	3.751	45	81936	21.078	ug/l #	82
23) Vinyl Acetate	3.715	43	344264	100.693	ug/l	100
24) 1,1-Dichloroethane	3.605	63	43994	20.320	ug/l	98
25) 2-Butanone	4.550	43	101247	105.062	ug/l	98
26) 2,2-Dichloropropane	4.471	77	32985	19.464	ug/l	99
27) cis-1,2-Dichloroethene	4.477	96	26053	20.438	ug/l	99
28) Bromochloromethane	4.891	49	23073	22.139	ug/l	95
29) Tetrahydrofuran	5.001	42	64602	106.980	ug/l	98
30) Chloroform	5.086	83	47289	20.955	ug/l	95
31) Cyclohexane	5.458	56	37029	18.768	ug/l	99
32) 1,1,1-Trichloroethane	5.373	97	39986	20.440	ug/l	98
36) 1,1-Dichloropropene	5.684	75	28160	18.864	ug/l	97
37) Ethyl Acetate	4.708	43	37243	20.193	ug/l	100
38) Carbon Tetrachloride	5.665	117	34138	20.354	ug/l	97
39) Methylcyclohexane	7.373	83	35346	18.392	ug/l	95
40) Benzene	6.031	78	88565	20.255	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046334.D
Acq On : 23 May 2025 10:57
Operator : JC/MD
Sample : VX0523WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 23 22:57:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.922	41	21949	22.750	ug/l		98
42) 1,2-Dichloroethane	6.080	62	39039	20.687	ug/l		98
43) Isopropyl Acetate	6.336	43	58465	20.779	ug/l		98
44) Trichloroethene	7.116	130	20856	19.818	ug/l		99
45) 1,2-Dichloropropane	7.427	63	22887	21.051	ug/l		95
46) Dibromomethane	7.574	93	17401	20.292	ug/l		99
47) Bromodichloromethane	7.818	83	35210	20.847	ug/l		97
48) Methyl methacrylate	7.690	41	30700	21.365	ug/l		99
49) 1,4-Dioxane	7.659	88	11623	426.008	ug/l		99
51) 4-Methyl-2-Pentanone	8.567	43	204759	109.635	ug/l		98
52) Toluene	8.714	92	54660	20.387	ug/l		98
53) t-1,3-Dichloropropene	8.976	75	29346	19.548	ug/l		99
54) cis-1,3-Dichloropropene	8.360	75	34425	20.748	ug/l		98
55) 1,1,2-Trichloroethane	9.147	97	23071	21.823	ug/l		99
56) Ethyl methacrylate	9.110	69	35941	21.331	ug/l		99
57) 1,3-Dichloropropane	9.305	76	38963	20.522	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.238	63	92851	108.093	ug/l		100
59) 2-Hexanone	9.427	43	150965	109.257	ug/l		98
60) Dibromochloromethane	9.518	129	24359	20.981	ug/l		98
61) 1,2-Dibromoethane	9.604	107	22797	20.748	ug/l		99
64) Tetrachloroethene	9.269	164	19995	20.878	ug/l		94
65) Chlorobenzene	10.073	112	59694	20.149	ug/l		97
66) 1,1,1,2-Tetrachloroethane	10.159	131	20790	20.551	ug/l		99
67) Ethyl Benzene	10.189	91	105906	20.280	ug/l		100
68) m/p-Xylenes	10.299	106	77627	40.642	ug/l		96
69) o-Xylene	10.640	106	38262	20.548	ug/l		96
70) Styrene	10.652	104	63992	20.979	ug/l		98
71) Bromoform	10.799	173	14711	19.369	ug/l	#	97
73) Isopropylbenzene	10.957	105	103395	20.246	ug/l		99
74) N-amyl acetate	10.841	43	50382	19.965	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.207	83	36107	20.176	ug/l		100
76) 1,2,3-Trichloropropane	11.238	75	31390m	19.881	ug/l		
77) Bromobenzene	11.195	156	23688	19.979	ug/l		100
78) n-propylbenzene	11.299	91	120436	20.282	ug/l		99
79) 2-Chlorotoluene	11.360	91	76565	19.991	ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	88181	20.669	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	9236	19.044	ug/l		95
82) 4-Chlorotoluene	11.451	91	86969	20.476	ug/l		99
83) tert-Butylbenzene	11.713	119	86219	20.063	ug/l		99
84) 1,2,4-Trimethylbenzene	11.750	105	88916	20.580	ug/l		100
85) sec-Butylbenzene	11.890	105	108908	20.640	ug/l		99
86) p-Isopropyltoluene	12.006	119	88860	20.402	ug/l		100
87) 1,3-Dichlorobenzene	11.969	146	43379	20.048	ug/l		99
88) 1,4-Dichlorobenzene	12.036	146	43812	19.826	ug/l		98
89) n-Butylbenzene	12.329	91	76398	19.997	ug/l		99
90) Hexachloroethane	12.536	117	14567	18.984	ug/l		99
91) 1,2-Dichlorobenzene	12.335	146	44827	20.645	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	8025	20.242	ug/l		99
93) 1,2,4-Trichlorobenzene	13.585	180	24140	19.356	ug/l		99
94) Hexachlorobutadiene	13.725	225	11016	20.225	ug/l		99
95) Naphthalene	13.774	128	87267	19.079	ug/l		99
96) 1,2,3-Trichlorobenzene	13.963	180	24990	19.420	ug/l		98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046334.D
Acq On : 23 May 2025 10:57
Operator : JC/MD
Sample : VX0523WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 23 22:57:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046334.D
Acq On : 23 May 2025 10:57
Operator : JC/MD
Sample : VX0523WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 23 22:57:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

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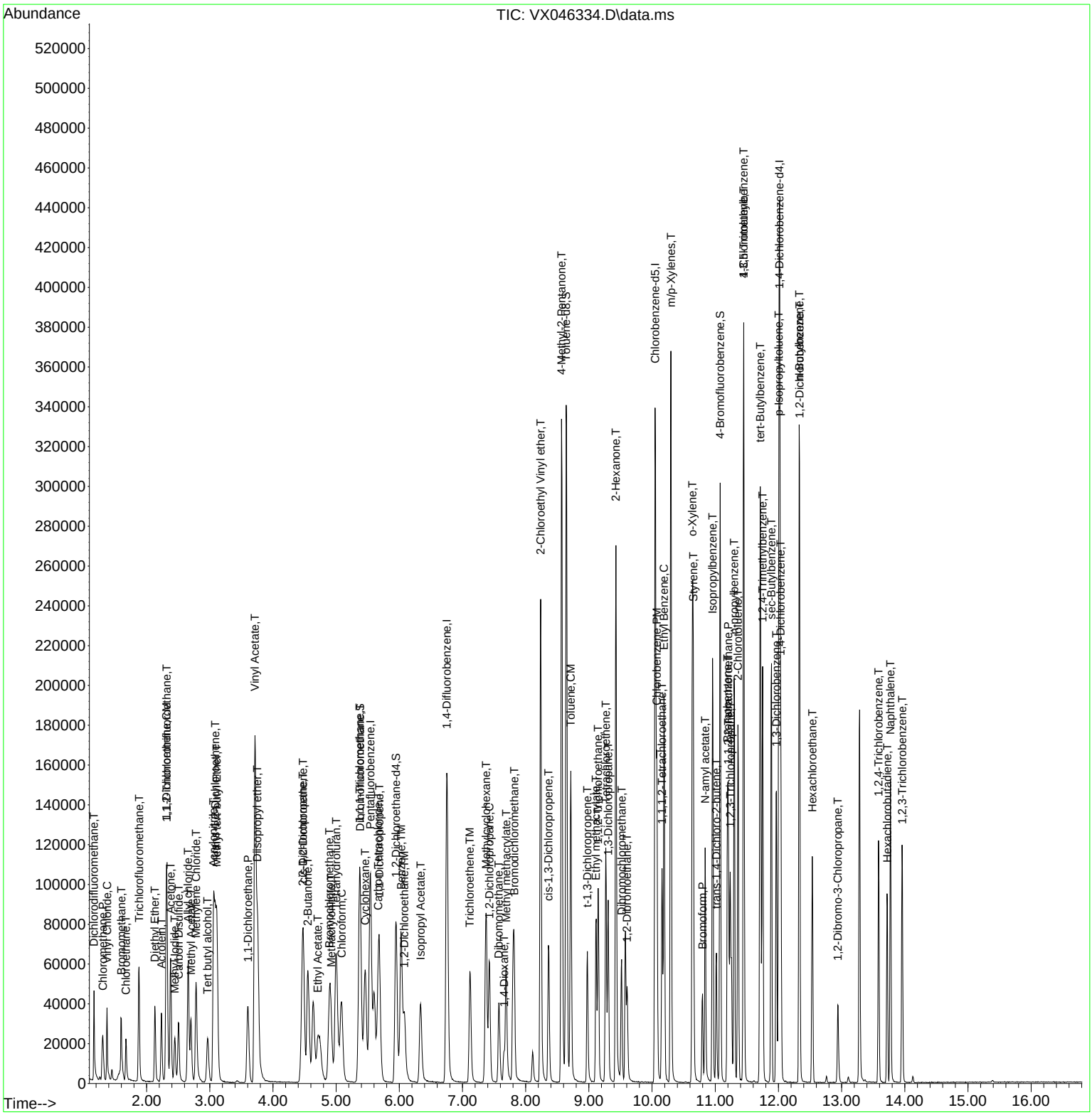
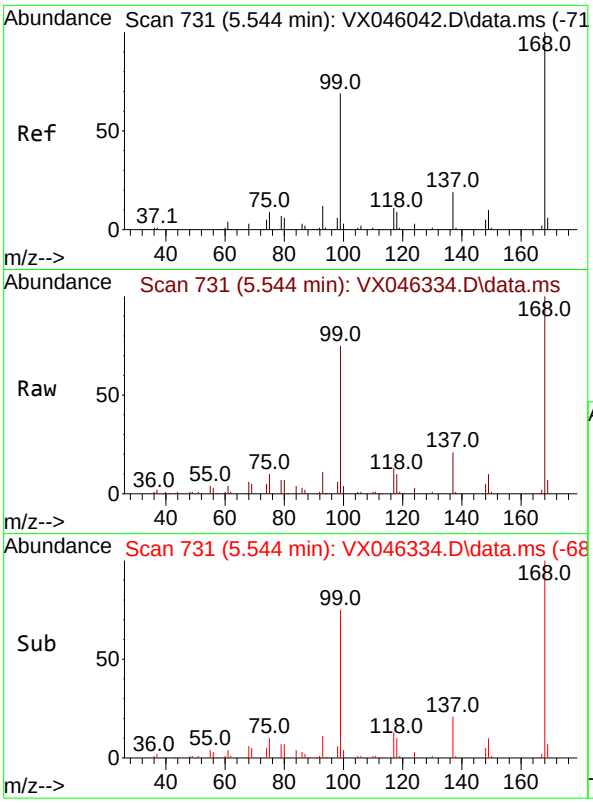
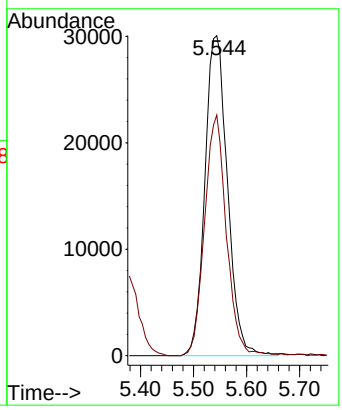




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion:168 Resp: 8880

Ion	Ratio	Lower	Upper
168	100		
99	75.2	54.9	82.3



Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

Manual Integrations
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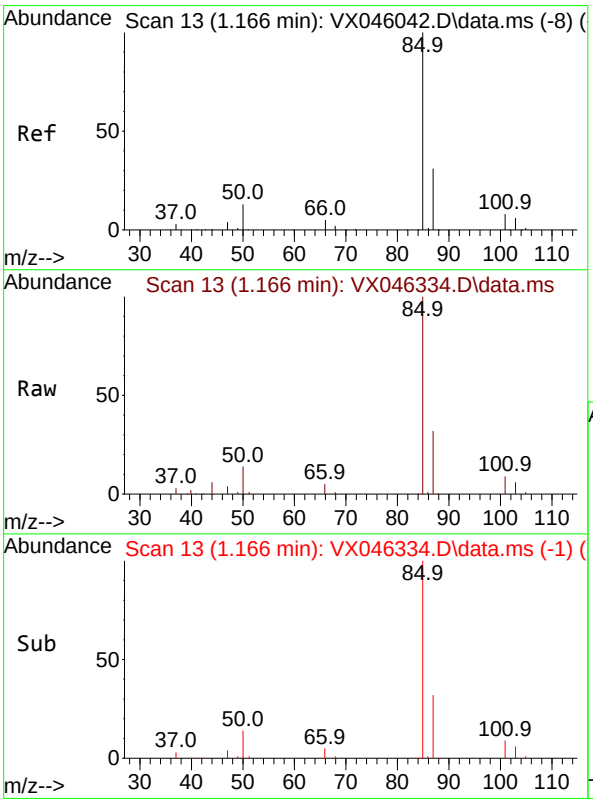
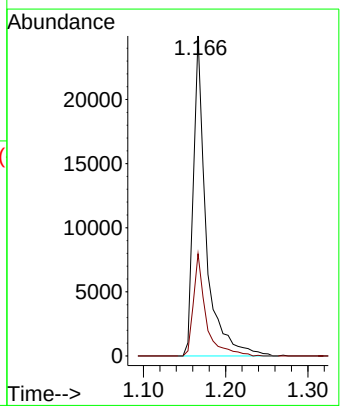
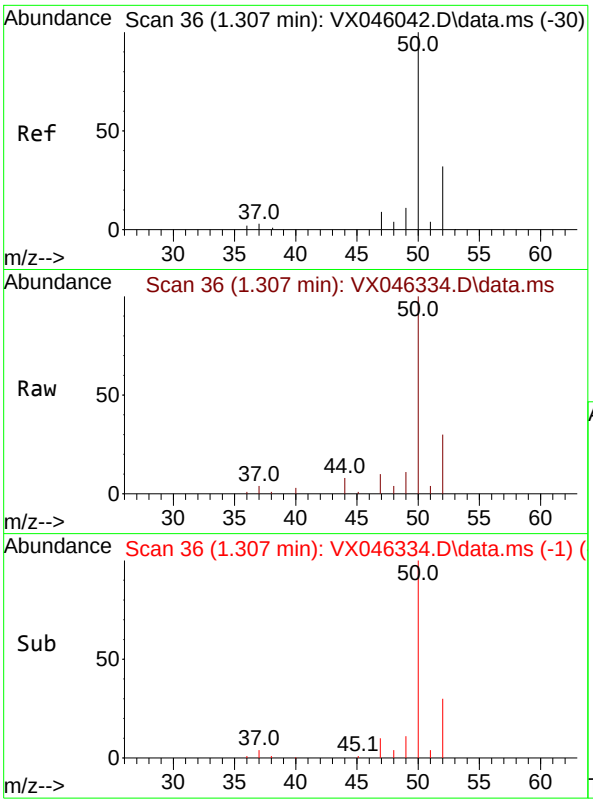


#2
Dichlorodifluoromethane
Concen: 19.781 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 85 Resp: 26885

Ion	Ratio	Lower	Upper
85	100		
87	32.0	15.7	47.1

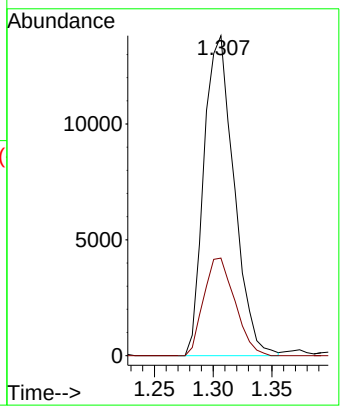




#3
Chloromethane
Concen: 18.663 ug/l
RT: 1.307 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 50 Resp: 2459

Ion	Ratio	Lower	Upper
50	100		
52	30.5	25.4	38.2



Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

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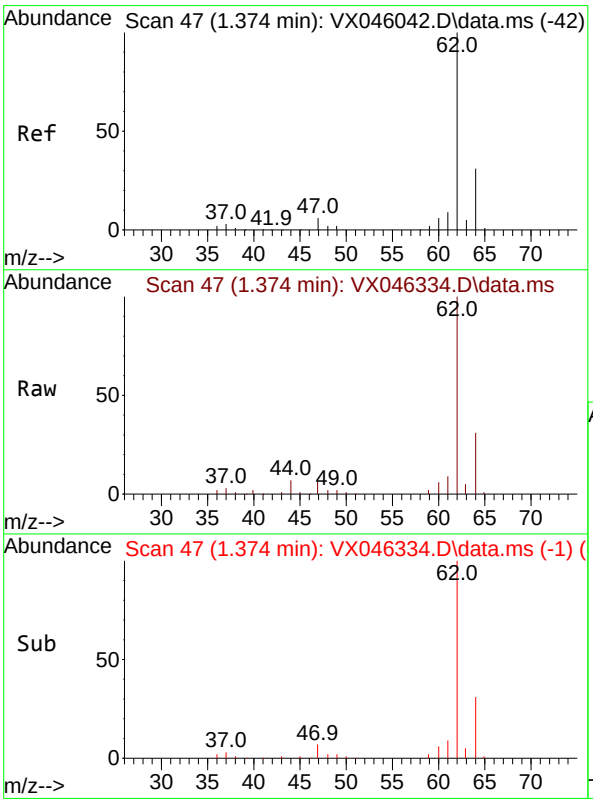
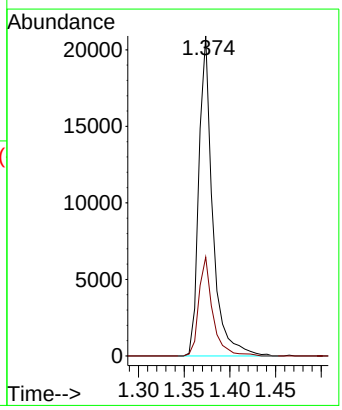
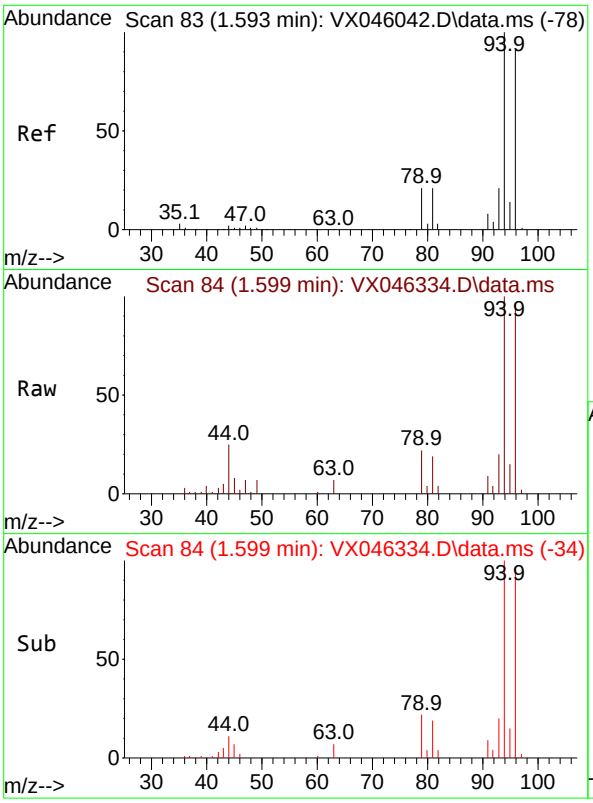


#4
Vinyl Chloride
Concen: 17.833 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 62 Resp: 21875

Ion	Ratio	Lower	Upper
62	100		
64	30.9	25.2	37.8

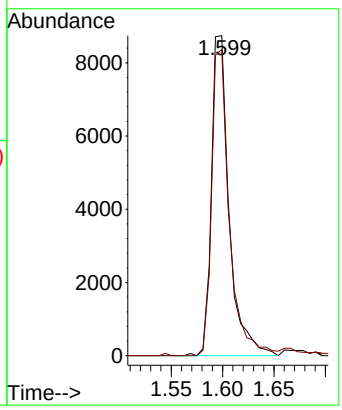




#5
Bromomethane
Concen: 18.326 ug/l
RT: 1.599 min Scan# 84
Delta R.T. 0.006 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 94 Resp: 1042

Ion	Ratio	Lower	Upper
94	100		
96	95.6	72.8	109.2



Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

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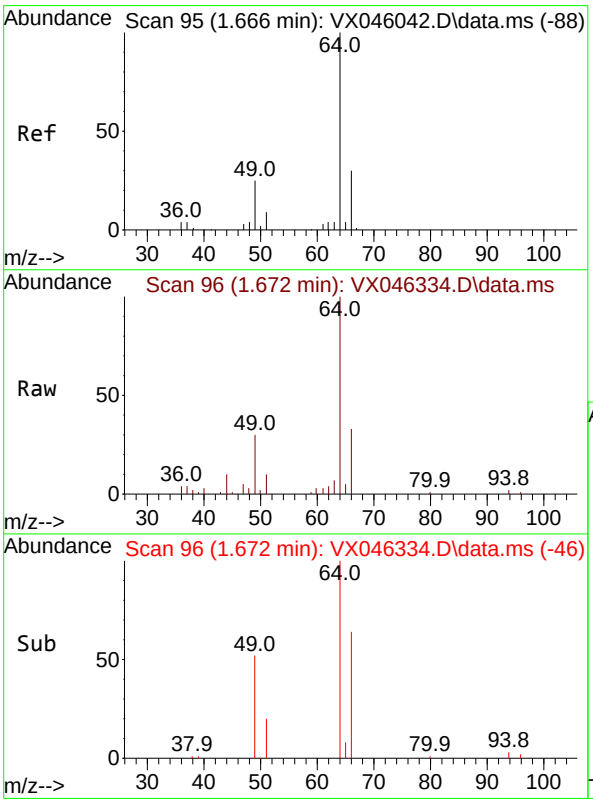
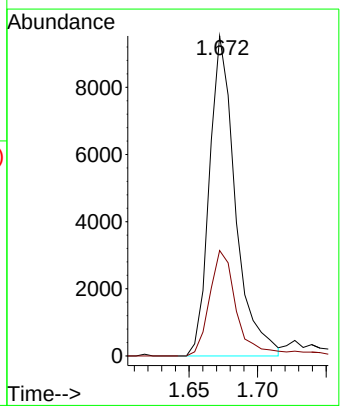
Supervised By :Mahesh Dadoda 05/26/2025

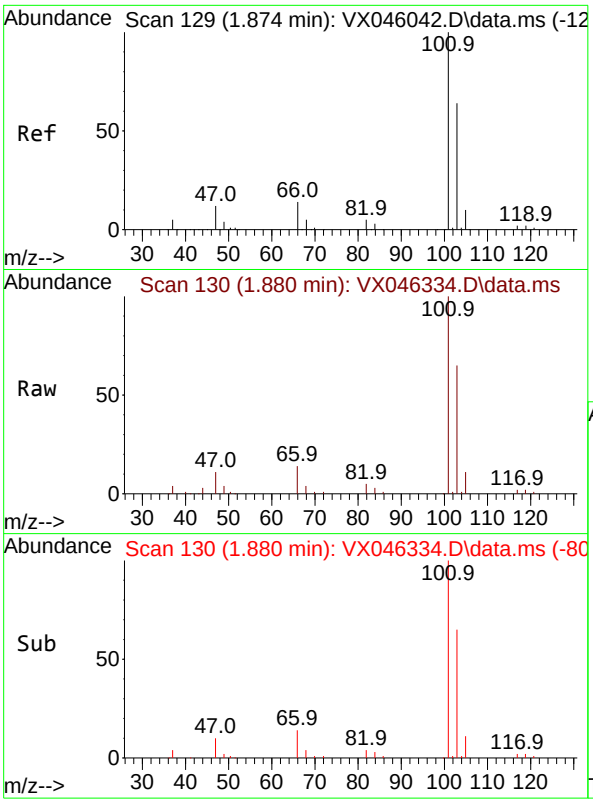


#6
Chloroethane
Concen: 19.167 ug/l
RT: 1.672 min Scan# 96
Delta R.T. 0.006 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 64 Resp: 12552

Ion	Ratio	Lower	Upper
64	100		
66	32.9	24.3	36.5

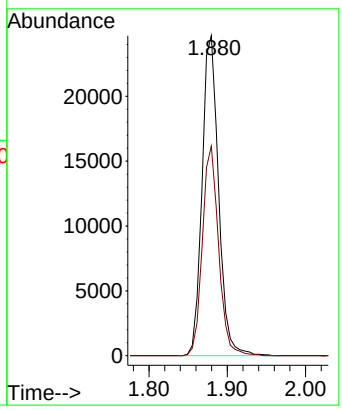




#7
Trichlorofluoromethane
Concen: 19.905 ug/l
RT: 1.880 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion:101 Resp: 3608

Ion	Ratio	Lower	Upper
101	100		
103	65.5	51.0	76.4



Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

Manual Integrations
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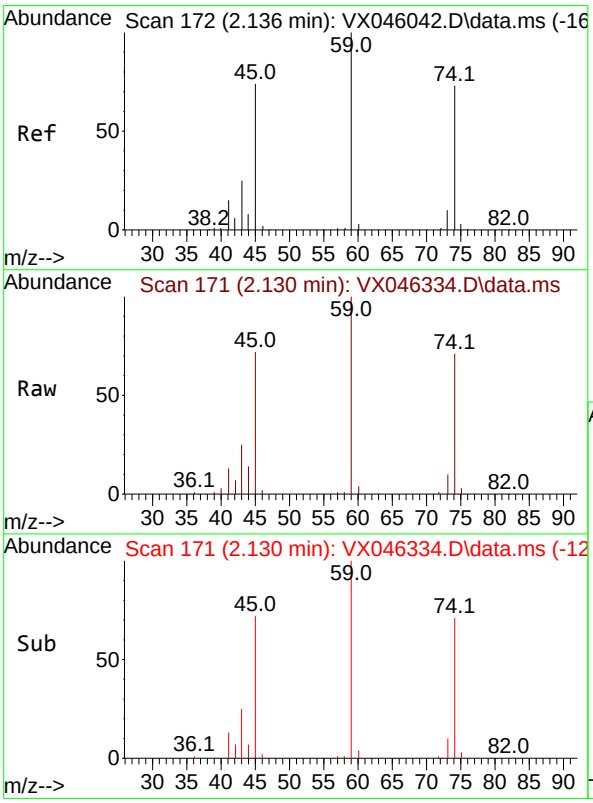
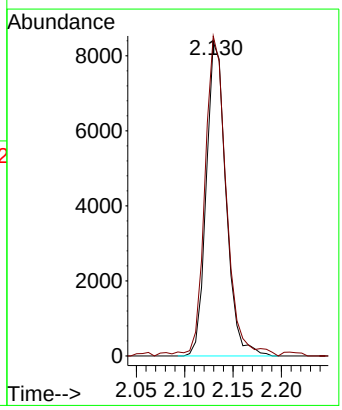
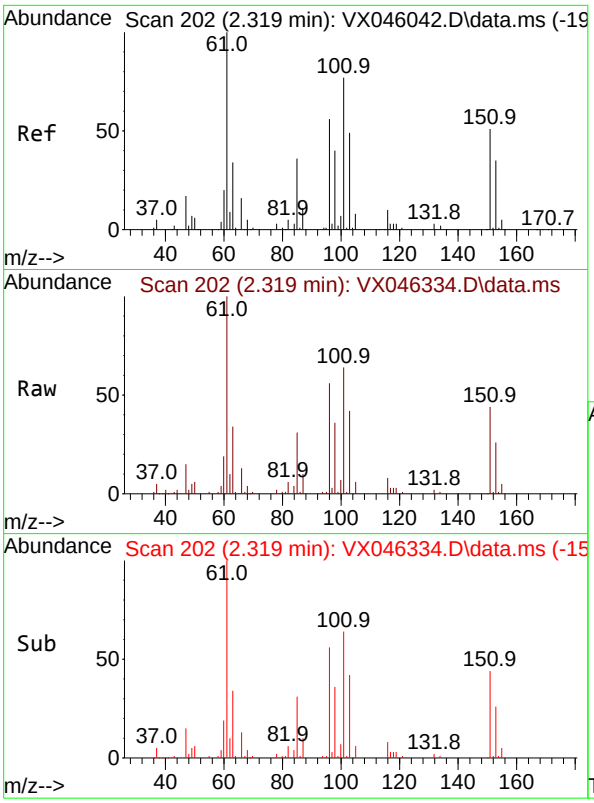


#8
Diethyl Ether
Concen: 19.212 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 74 Resp: 11857

Ion	Ratio	Lower	Upper
74	100		
45	109.9	54.9	164.8





#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.099 ug/l
RT: 2.319 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion:101 Resp: 2255

Ion	Ratio	Lower	Upper
101	100		
85	46.6	38.6	58.0
151	68.6	55.2	82.8

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

Manual Integrations
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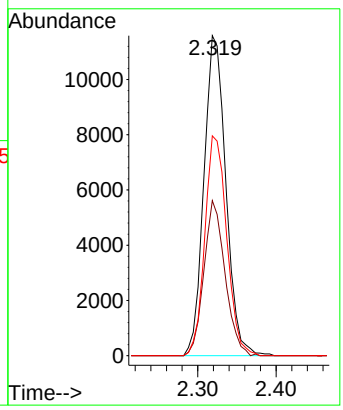
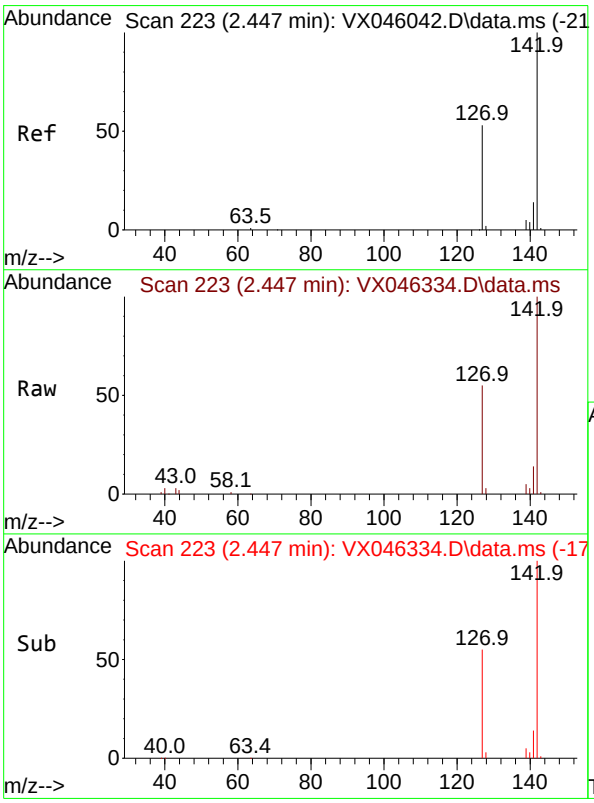
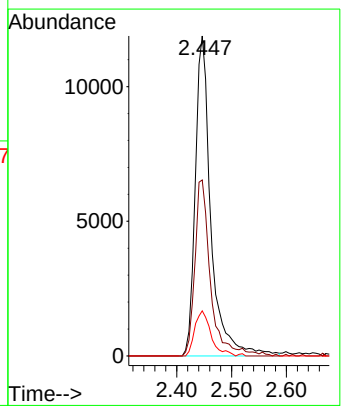


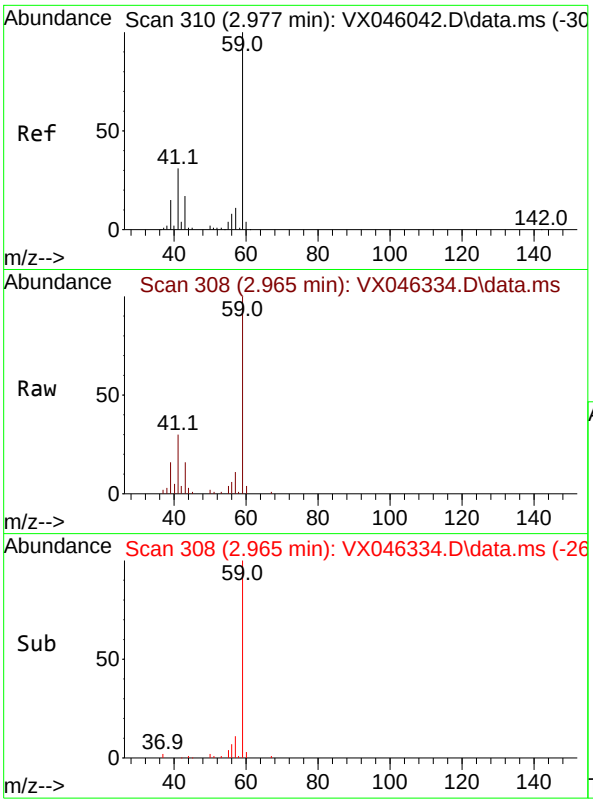


#10
Methyl Iodide
Concen: 17.845 ug/l
RT: 2.447 min Scan# 223
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion:142 Resp: 23690

Ion	Ratio	Lower	Upper
142	100		
127	55.0	41.7	62.5
141	14.6	11.5	17.3

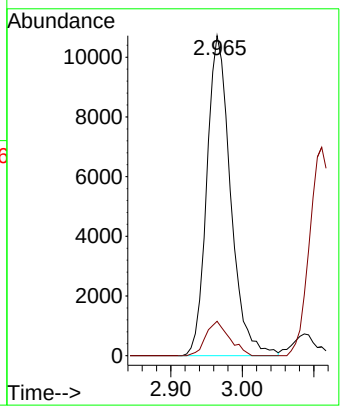




#11
Tert butyl alcohol
Concen: 106.404 ug/l
RT: 2.965 min Scan# 3
Delta R.T. -0.012 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 59 Resp: 2472

Ion	Ratio	Lower	Upper
59	100		
57	10.7	8.6	12.8



Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

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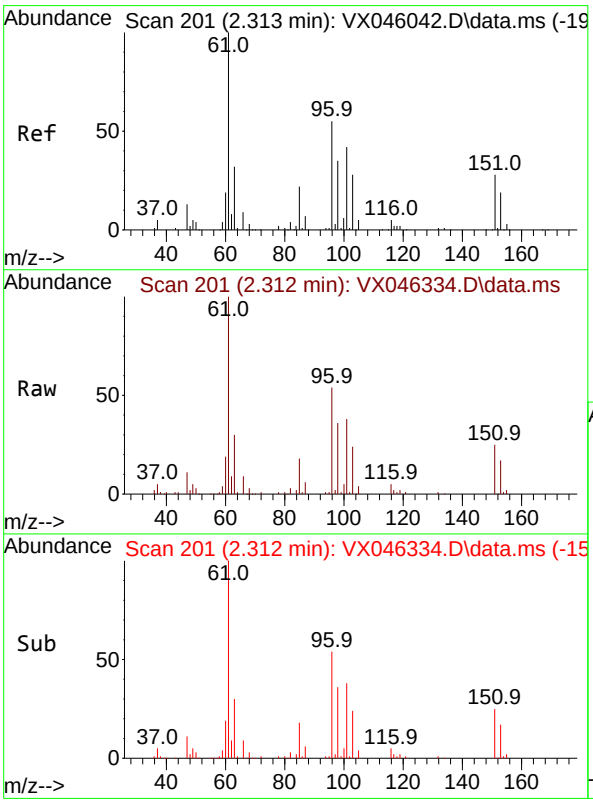
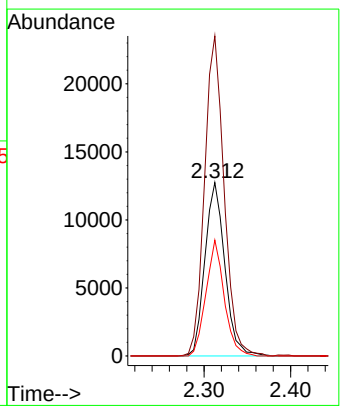
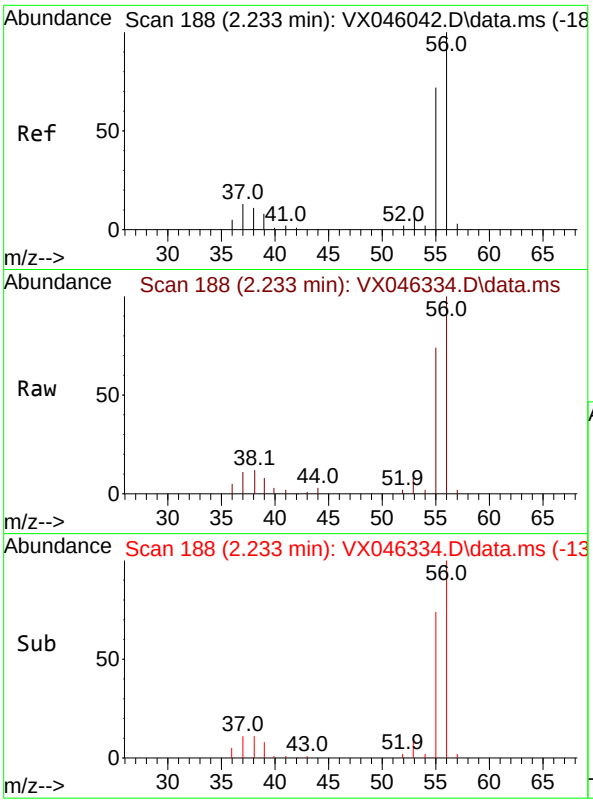


#12
1,1-Dichloroethene
Concen: 19.334 ug/l
RT: 2.312 min Scan# 201
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 96 Resp: 20358

Ion	Ratio	Lower	Upper
96	100		
61	184.5	146.2	219.2
98	66.8	51.0	76.6

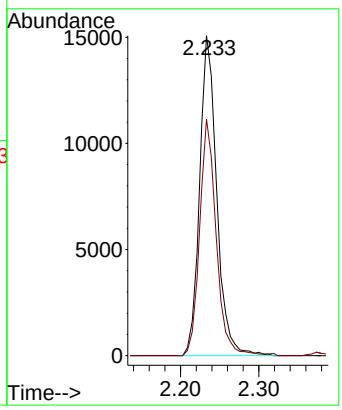




#13
Acrolein
Concen: 86.476 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 56 Resp: 2288

Ion	Ratio	Lower	Upper
56	100		
55	71.5	56.2	84.4



Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

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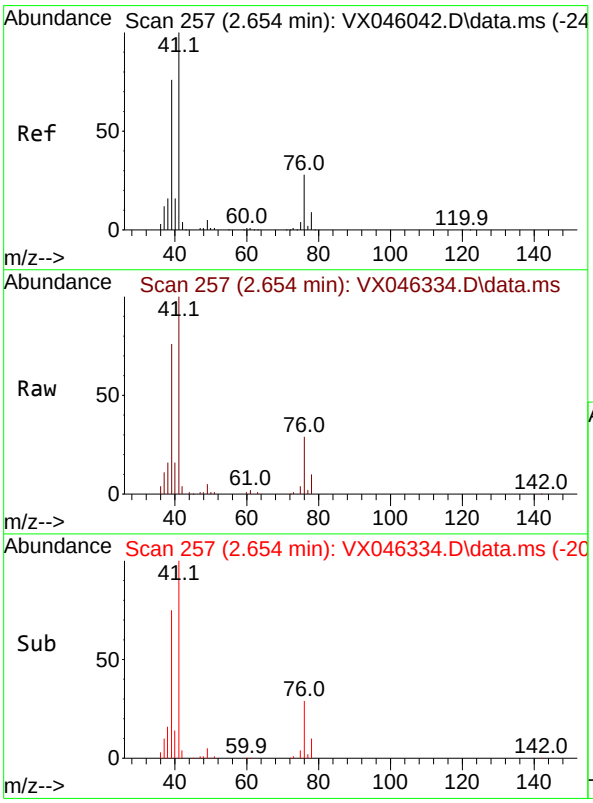
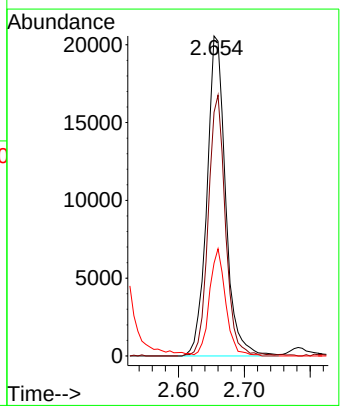
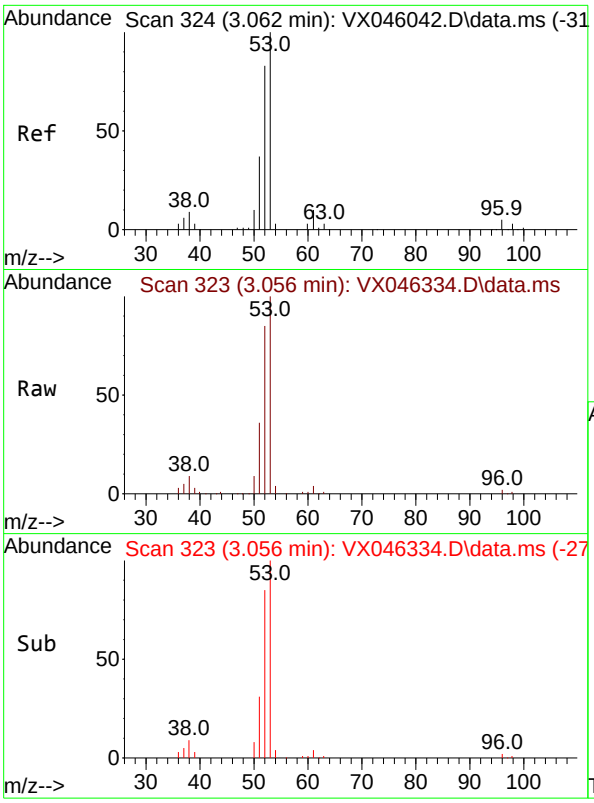


#14
Allyl chloride
Concen: 20.236 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 41 Resp: 40722

Ion	Ratio	Lower	Upper
41	100		
39	74.6	60.6	90.8
76	29.0	24.9	37.3

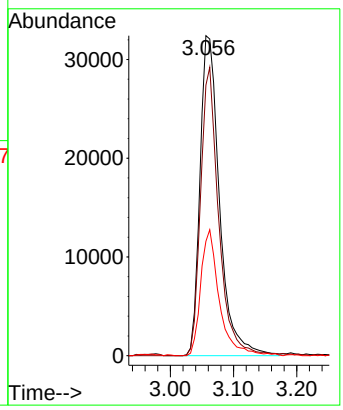




#15
Acrylonitrile
Concen: 105.077 ug/l
RT: 3.056 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 53 Resp: 6982

Ion	Ratio	Lower	Upper
53	100		
52	83.9	65.3	97.9
51	37.5	29.8	44.8



Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

Manual Integrations
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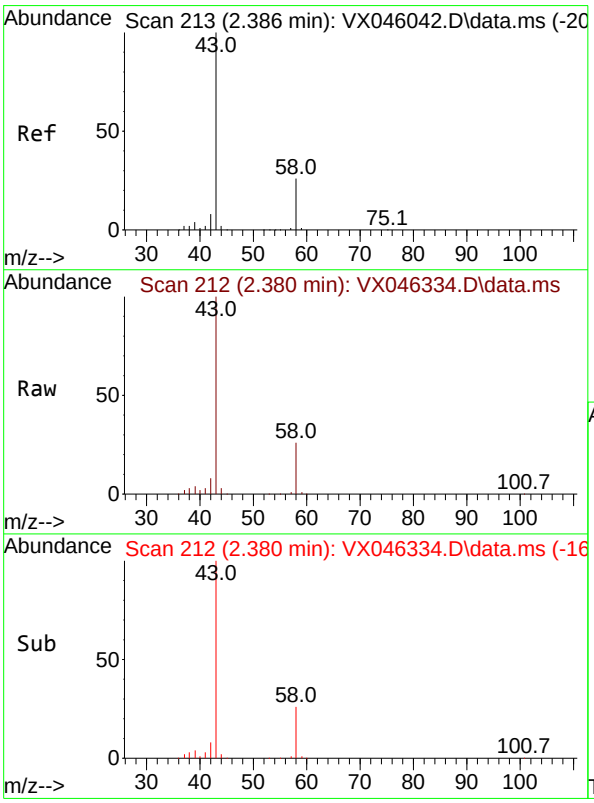
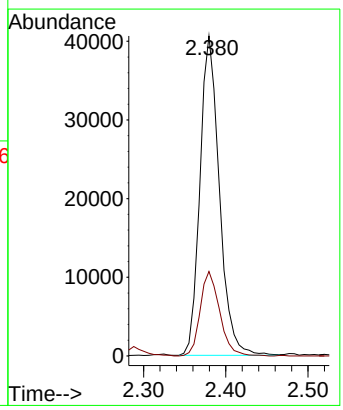
Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025

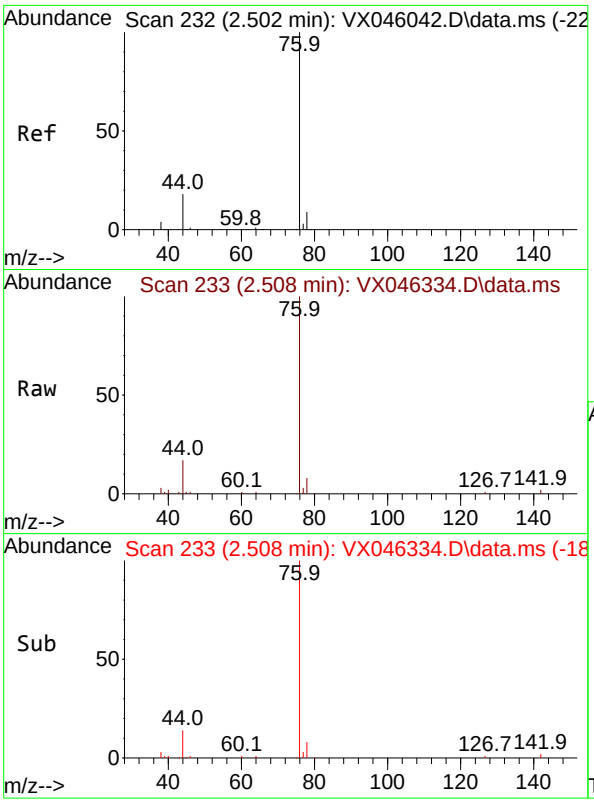


#16
Acetone
Concen: 100.699 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 43 Resp: 66843

Ion	Ratio	Lower	Upper
43	100		
58	26.4	21.2	31.8





#17
Carbon Disulfide
Concen: 15.399 ug/l
RT: 2.508 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 76 Resp: 3844

Ion	Ratio	Lower	Upper
76	100		
78	7.5	7.0	10.4

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

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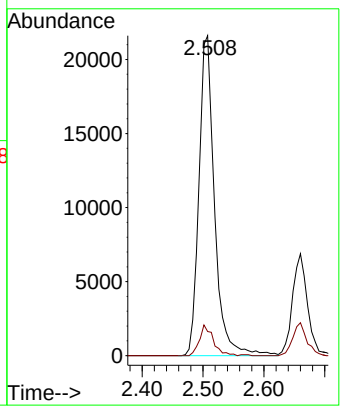
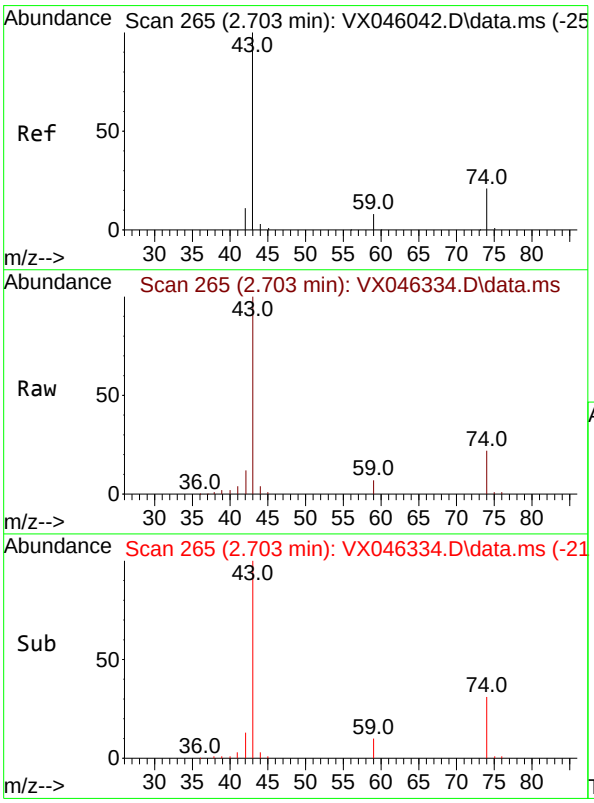
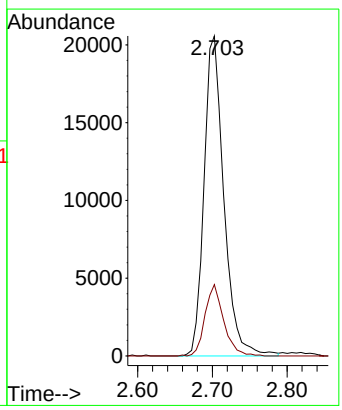


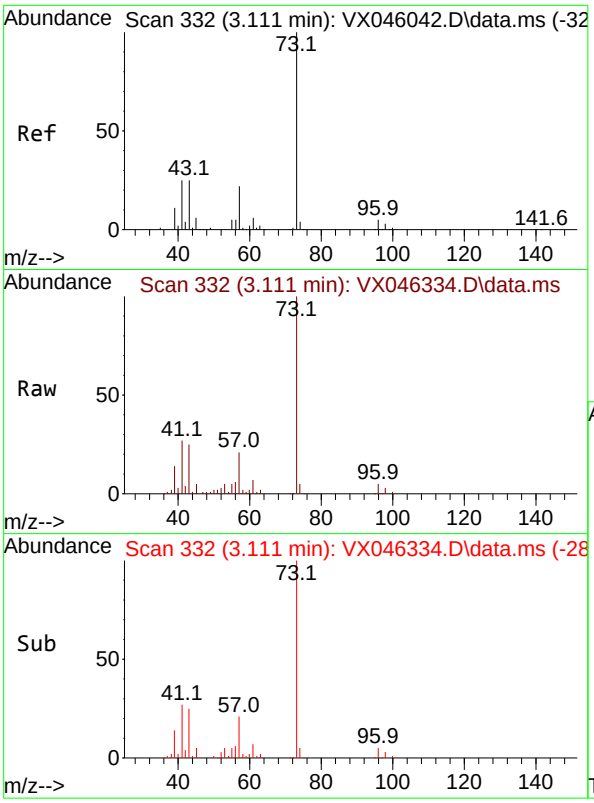


#18
Methyl Acetate
Concen: 24.597 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 43 Resp: 37888

Ion	Ratio	Lower	Upper
43	100		
74	21.1	16.7	25.1

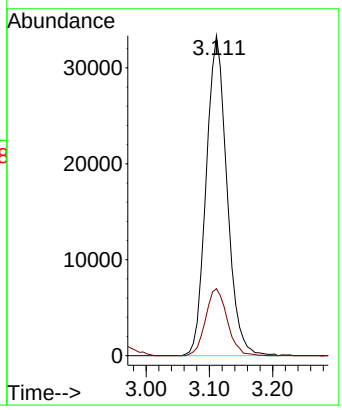




#19
Methyl tert-butyl Ether
Concen: 20.665 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 73 Resp: 7628

Ion	Ratio	Lower	Upper
73	100		
57	21.0	17.7	26.5



Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

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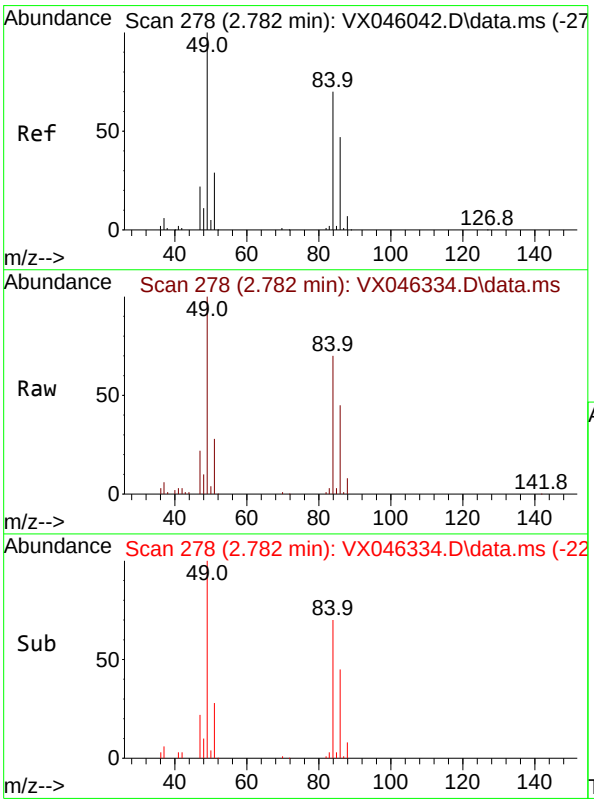
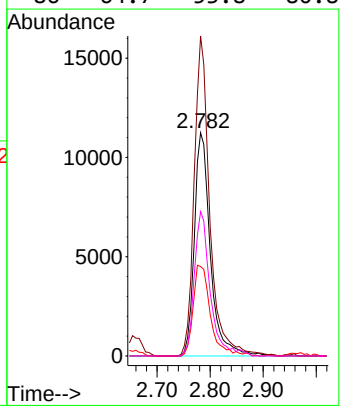
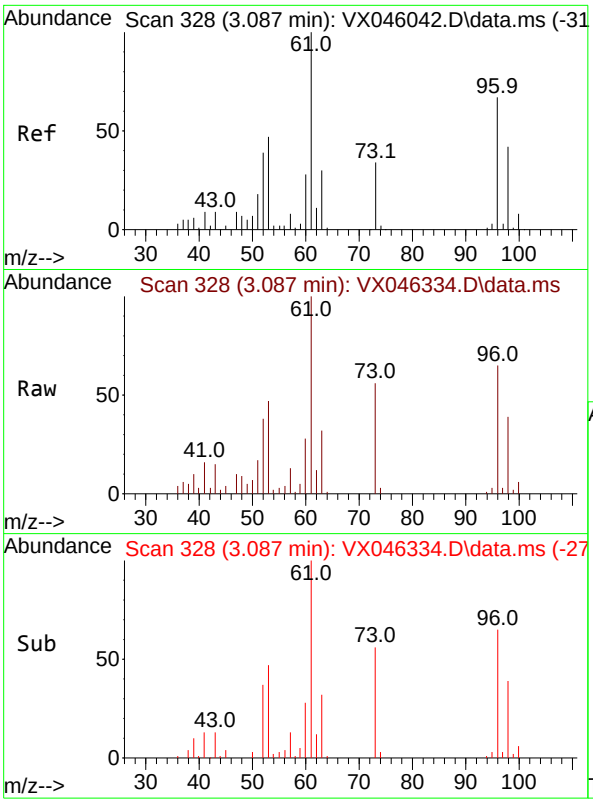


#20
Methylene Chloride
Concen: 18.588 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 84 Resp: 23645

Ion	Ratio	Lower	Upper
84	100		
49	143.3	113.9	170.9
51	40.0	33.5	50.3
86	64.7	53.8	80.8

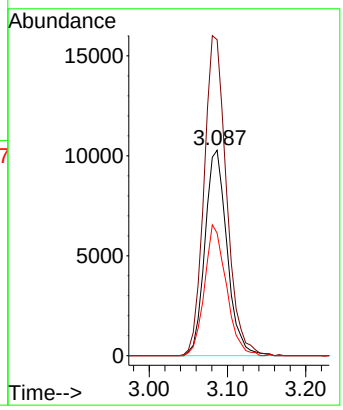




#21
trans-1,2-Dichloroethene
Concen: 19.045 ug/l
RT: 3.087 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 96 Resp: 2016

Ion	Ratio	Lower	Upper
96	100		
61	153.7	119.5	179.3
98	59.7	50.0	75.0



Instrument :
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ClientSampleId :
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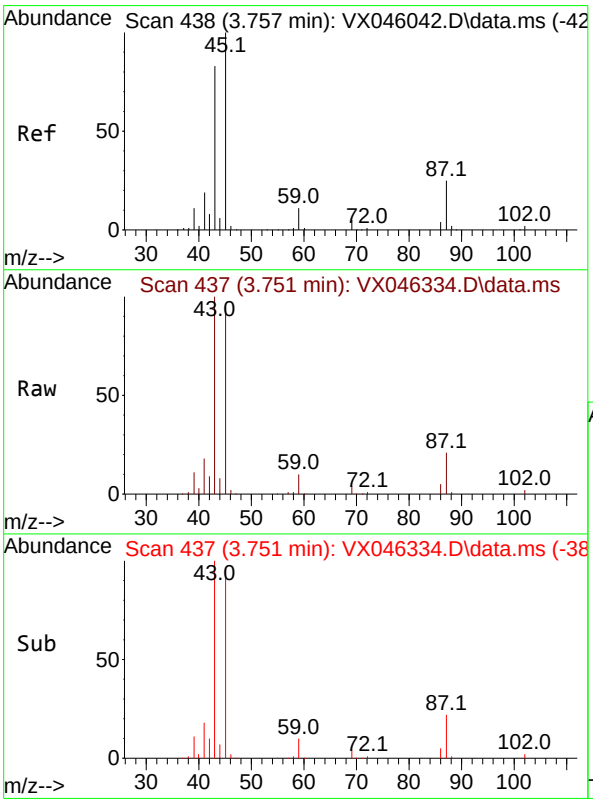
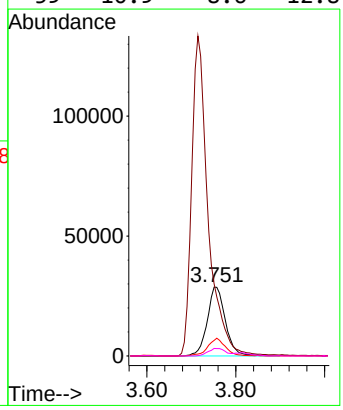
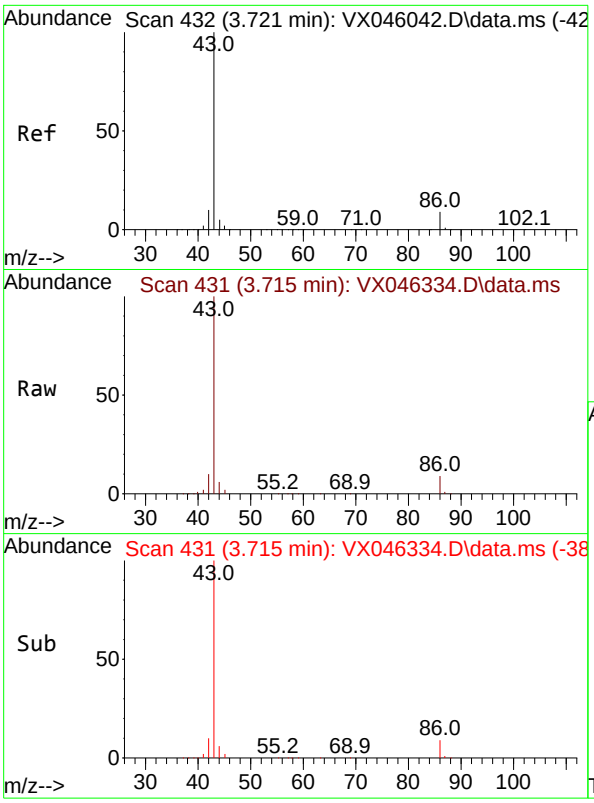


#22
Diisopropyl ether
Concen: 21.078 ug/l
RT: 3.751 min Scan# 437
Delta R.T. -0.006 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 45 Resp: 81936

Ion	Ratio	Lower	Upper
45	100		
43	104.7	66.6	100.0#
87	22.6	19.8	29.6
59	10.9	8.6	12.8





#23
Vinyl Acetate
Concen: 100.693 ug/l
RT: 3.715 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 43 Resp: 34426

Ion	Ratio	Lower	Upper
43	100		
86	9.3	7.5	11.3

Instrument :
MSVOA_X
ClientSampleId :
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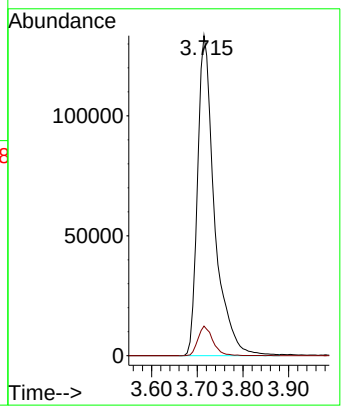
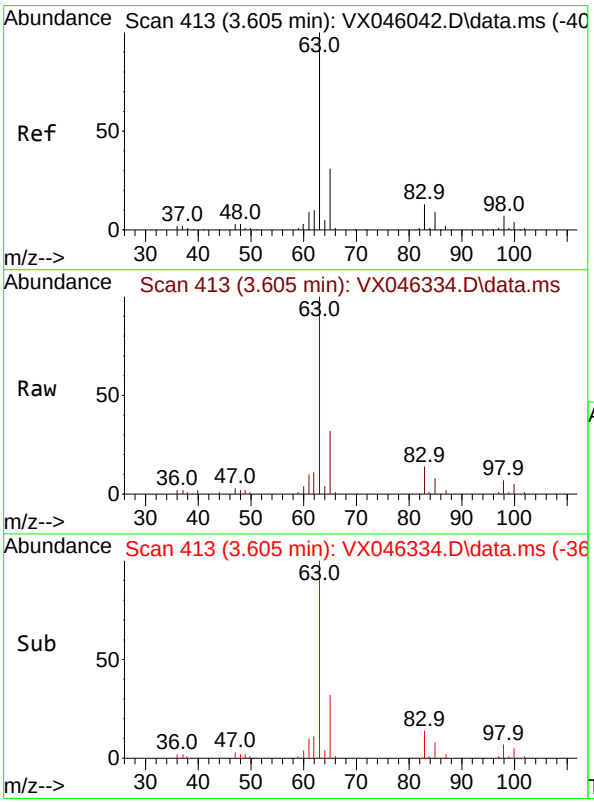
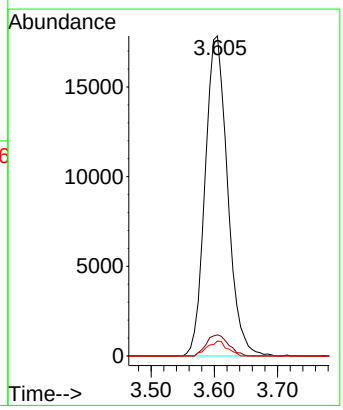


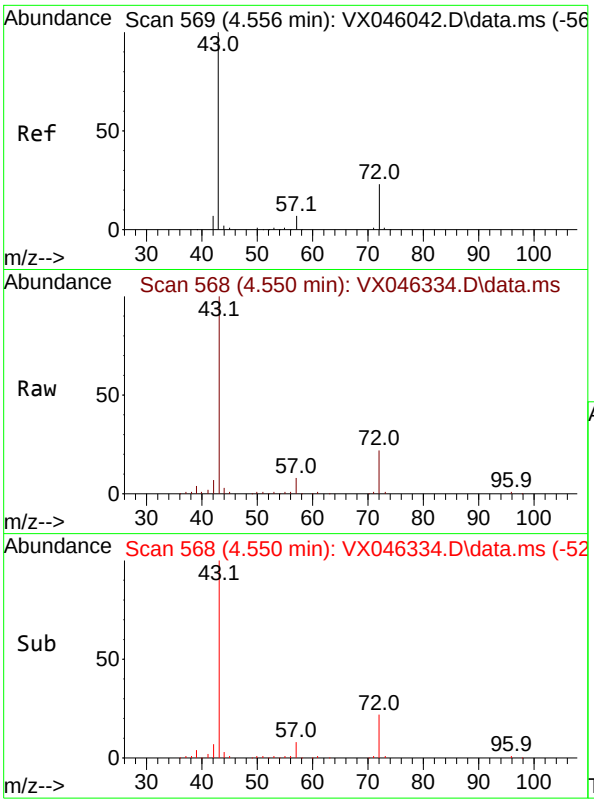


#24
1,1-Dichloroethane
Concen: 20.320 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 63 Resp: 43994

Ion	Ratio	Lower	Upper
63	100		
98	6.6	3.6	10.8
100	4.7	2.1	6.3





#25
2-Butanone
Concen: 105.062 ug/l
RT: 4.550 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 43 Resp: 10124

Ion	Ratio	Lower	Upper
43	100		
72	22.2	18.4	27.6

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

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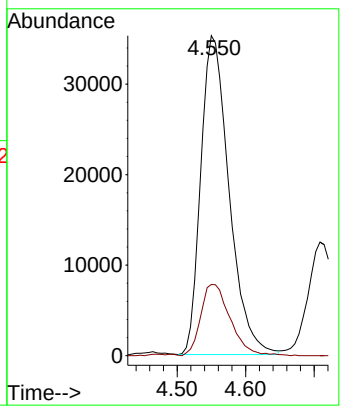
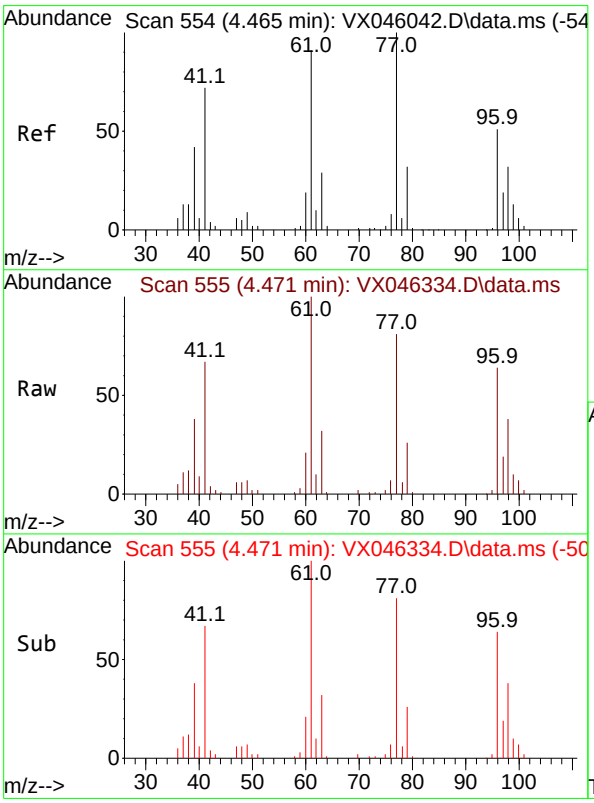
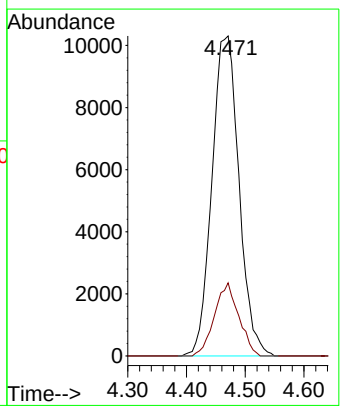


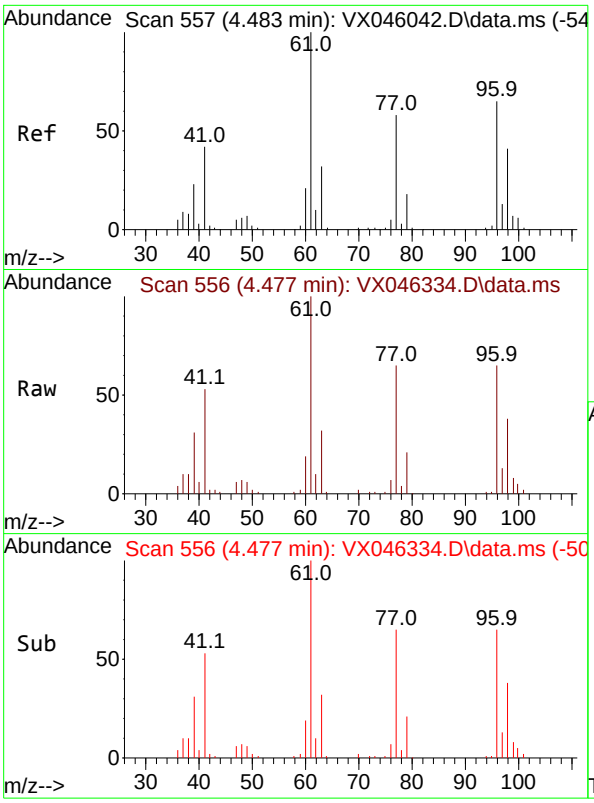


#26
2,2-Dichloropropane
Concen: 19.464 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 77 Resp: 32985

Ion	Ratio	Lower	Upper
77	100		
97	20.5	10.5	31.5

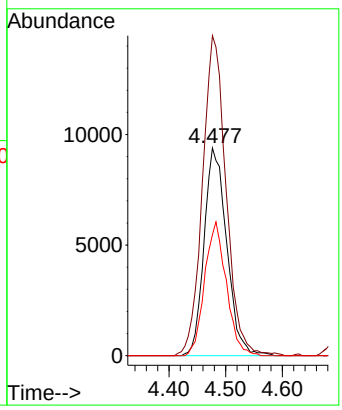




#27
cis-1,2-Dichloroethene
Concen: 20.438 ug/l
RT: 4.477 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 96 Resp: 2605

Ion	Ratio	Lower	Upper
96	100		
61	160.6	0.0	322.8
98	61.7	0.0	129.0



Instrument :
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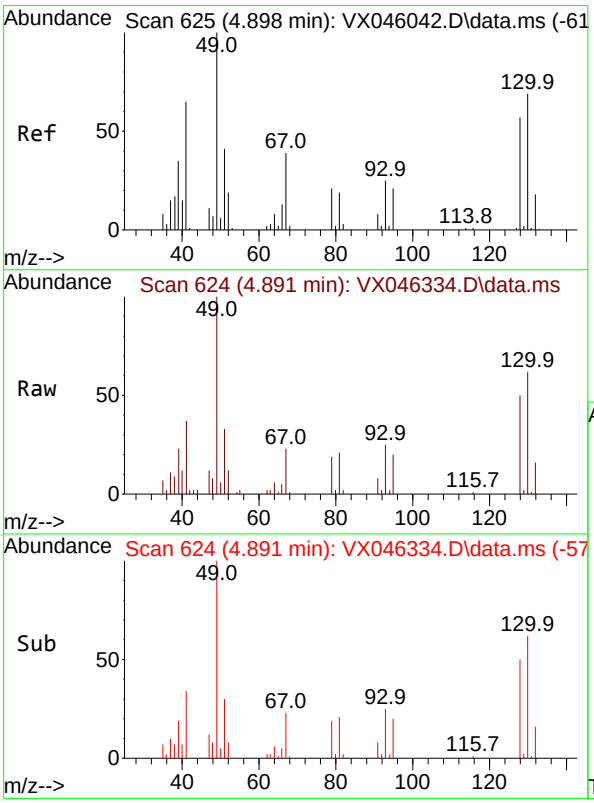
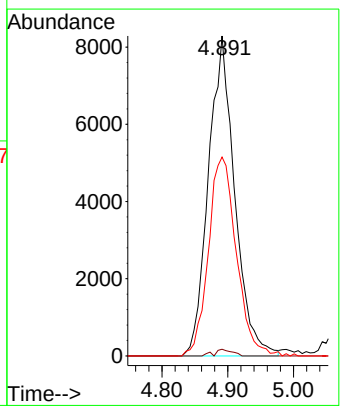
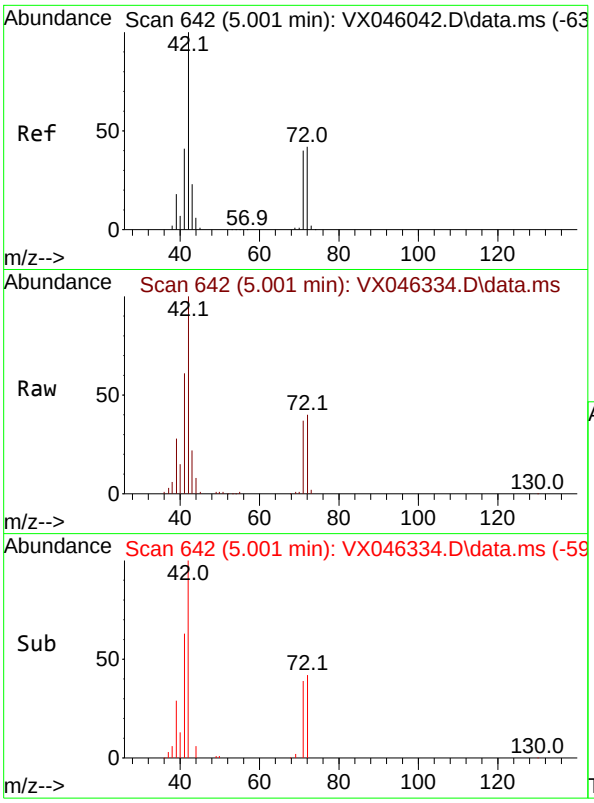


#28
Bromochloromethane
Concen: 22.139 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 49 Resp: 23073

Ion	Ratio	Lower	Upper
49	100		
129	1.4	0.0	4.0
130	66.2	56.2	84.2





#29
Tetrahydrofuran
Concen: 106.980 ug/l
RT: 5.001 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 42 Resp: 6460

Ion	Ratio	Lower	Upper
42	100		
72	41.4	33.7	50.5
71	37.0	31.4	47.2

Instrument :
MSVOA_X
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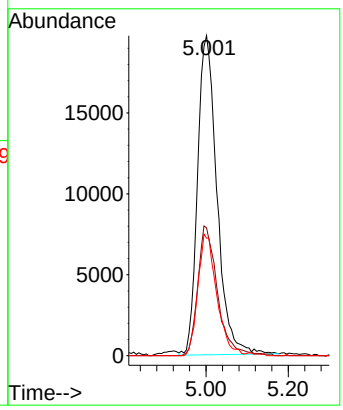
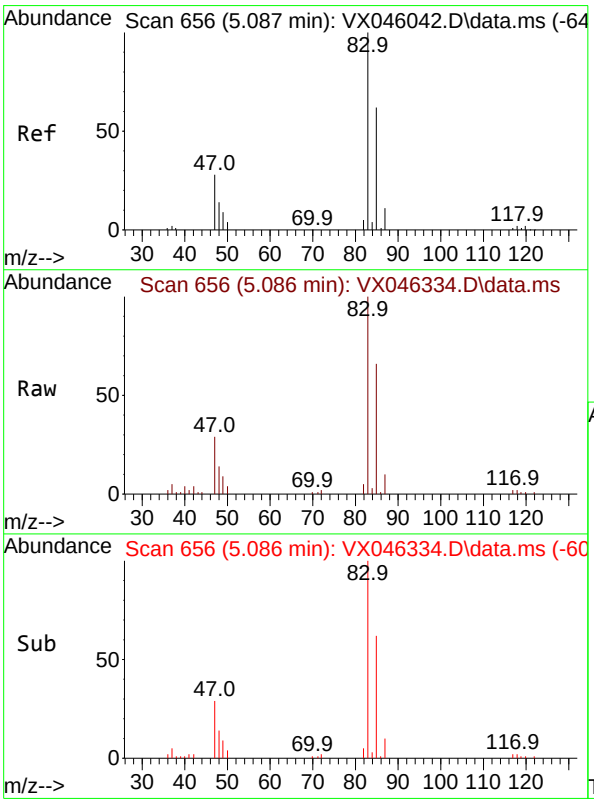
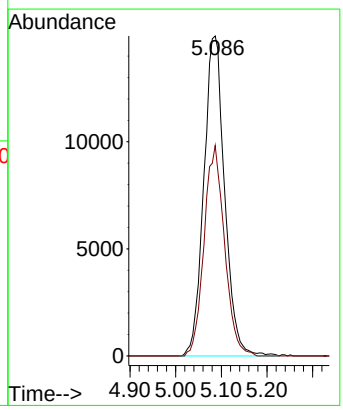


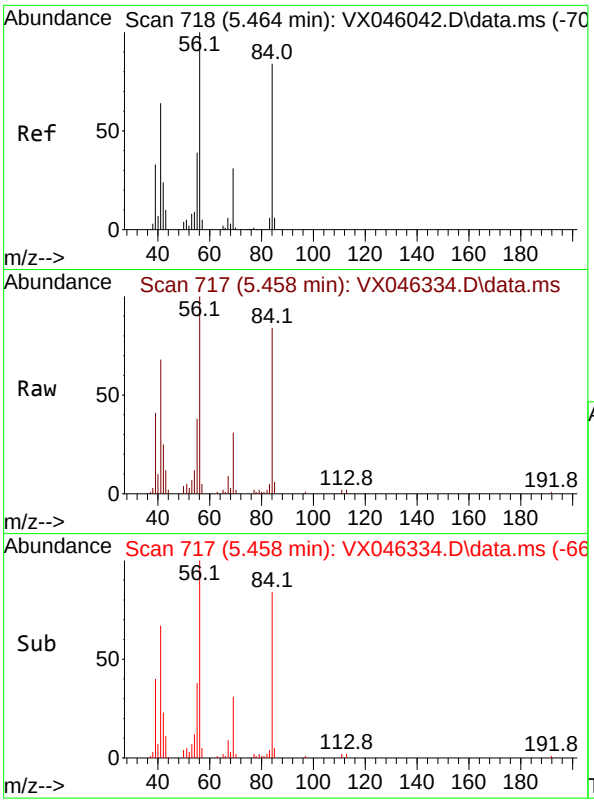


#30
Chloroform
Concen: 20.955 ug/l
RT: 5.086 min Scan# 656
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 83 Resp: 47289

Ion	Ratio	Lower	Upper
83	100		
85	65.7	49.3	73.9

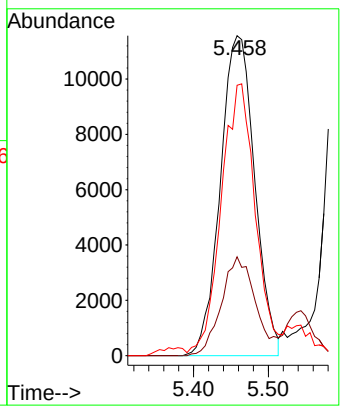




#31
Cyclohexane
Concen: 18.768 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 56 Resp: 3702

Ion	Ratio	Lower	Upper
56	100		
69	30.9	24.4	36.6
84	82.0	66.9	100.3



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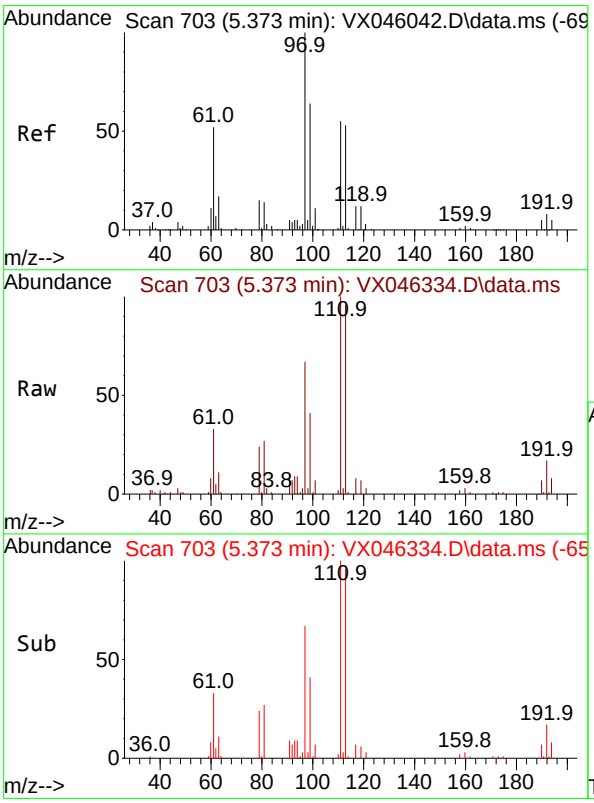
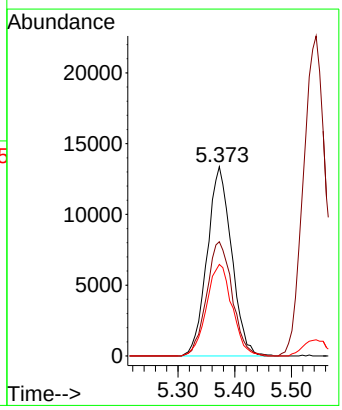
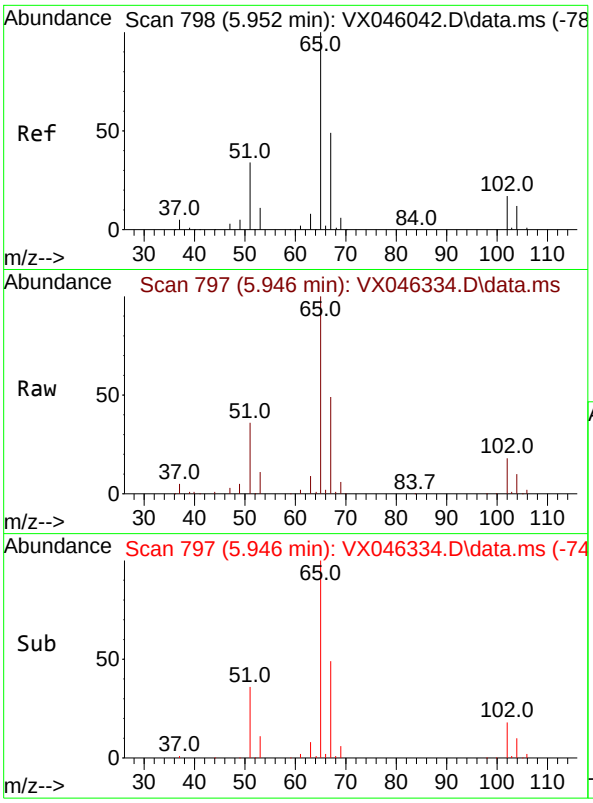


#32
1,1,1-Trichloroethane
Concen: 20.440 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 97 Resp: 39986

Ion	Ratio	Lower	Upper
97	100		
99	63.0	51.8	77.6
61	50.6	40.1	60.1

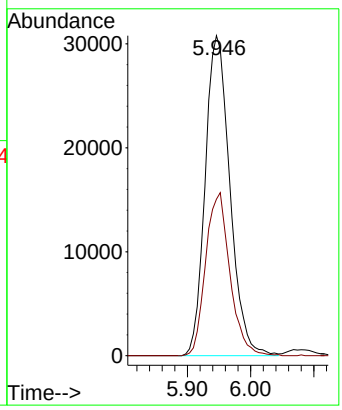




#33
1,2-Dichloroethane-d4
Concen: 50.541 ug/l
RT: 5.946 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 65 Resp: 8367

Ion	Ratio	Lower	Upper
65	100		
67	50.0	0.0	99.0



Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

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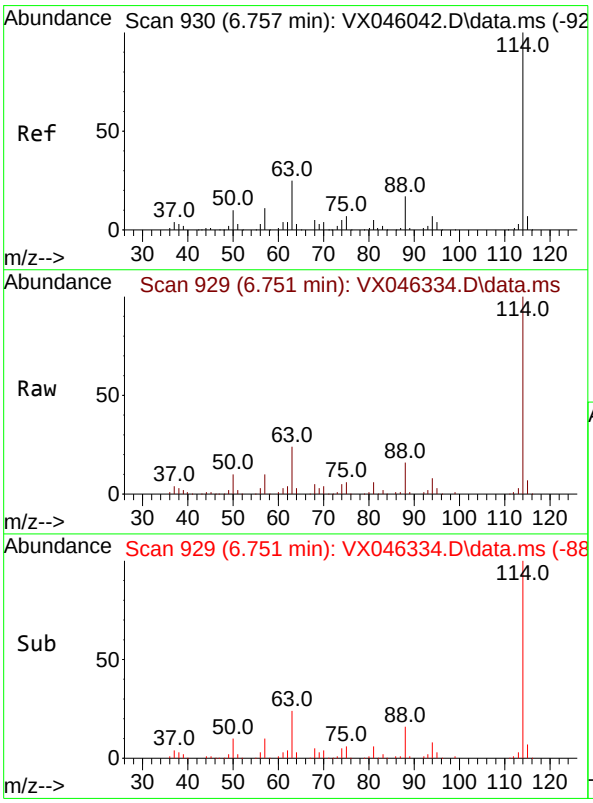
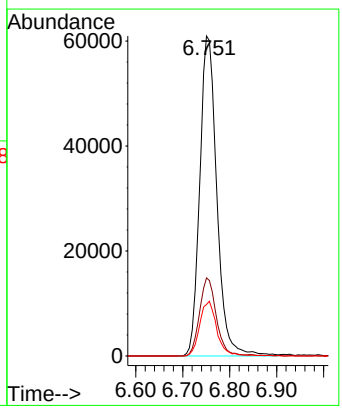
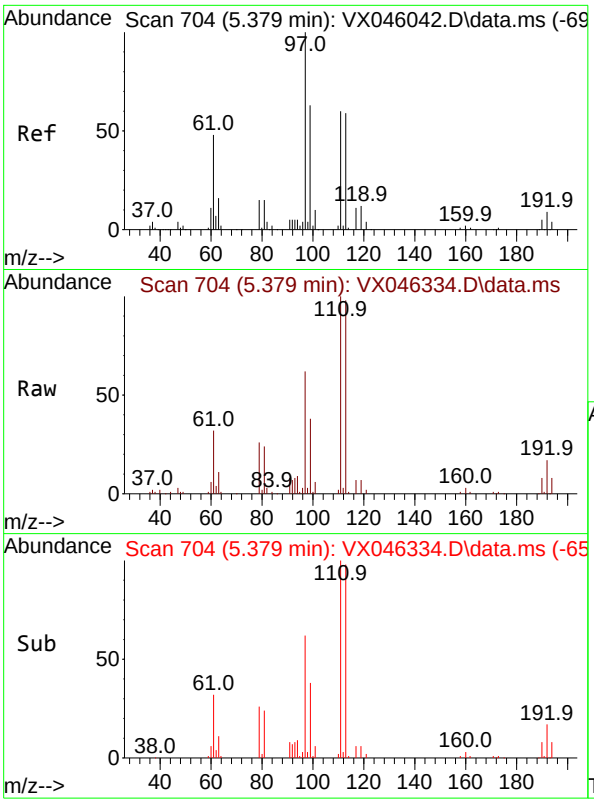


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. -0.006 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion:114 Resp: 154286

Ion	Ratio	Lower	Upper
114	100		
63	24.4	0.0	49.2
88	16.1	0.0	33.6

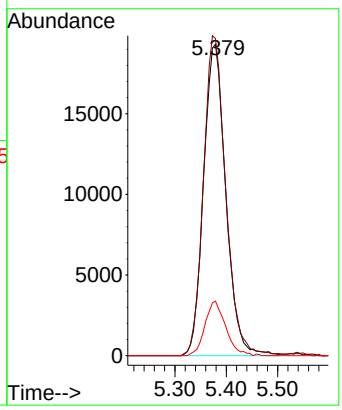




#35
Dibromofluoromethane
Concen: 52.363 ug/l
RT: 5.379 min Scan# 7(
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion:113 Resp: 5817(

Ion	Ratio	Lower	Upper
113	100		
111	102.7	83.1	124.7
192	16.3	13.3	19.9



Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

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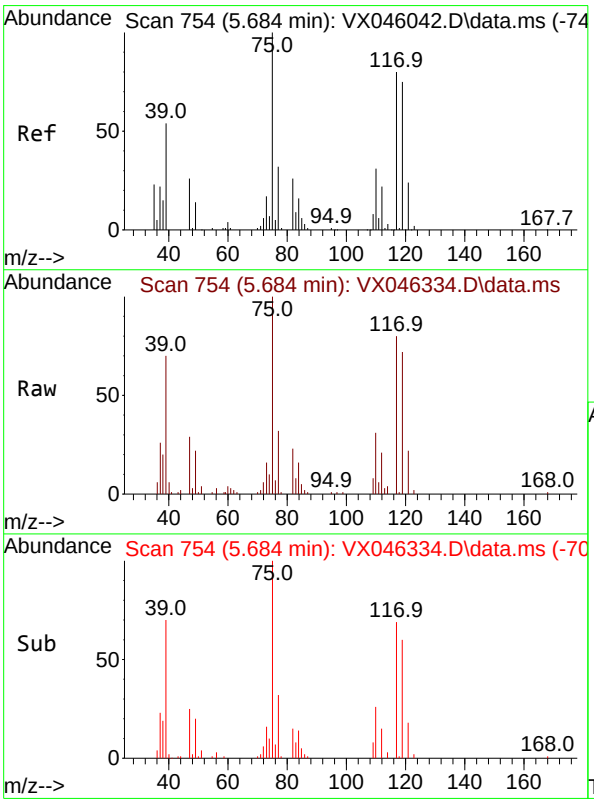
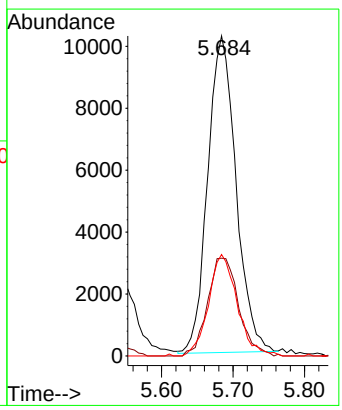
Supervised By :Mahesh Dadoda 05/26/2025

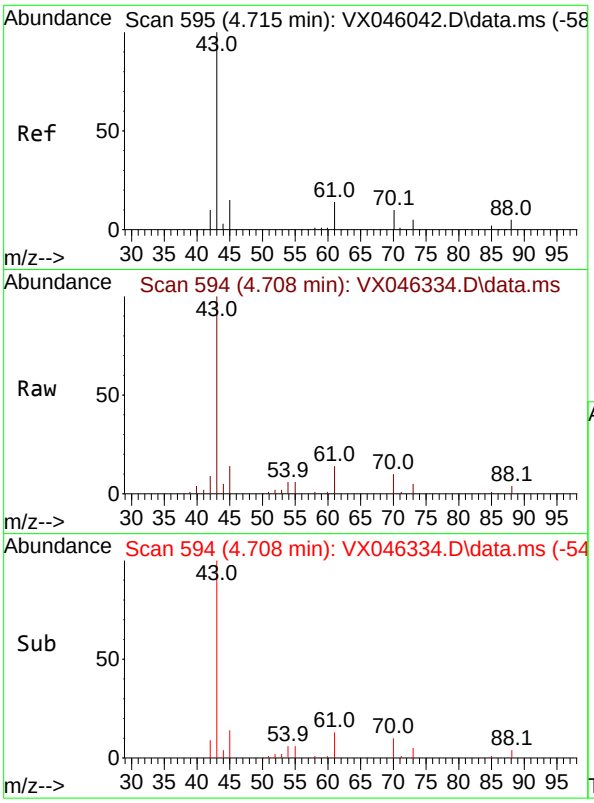


#36
1,1-Dichloropropene
Concen: 18.864 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 75 Resp: 28160

Ion	Ratio	Lower	Upper
75	100		
110	33.8	16.3	48.9
77	32.4	24.3	36.5

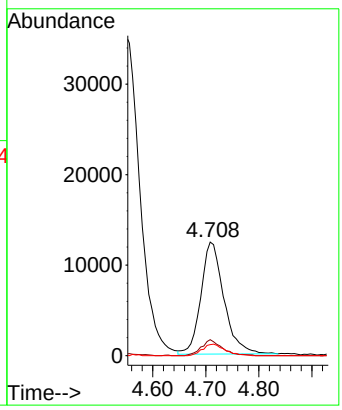




#37
Ethyl Acetate
Concen: 20.193 ug/l
RT: 4.708 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 43 Resp: 3724

Ion	Ratio	Lower	Upper
43	100		
61	12.9	10.3	15.5
70	10.0	7.9	11.9



Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

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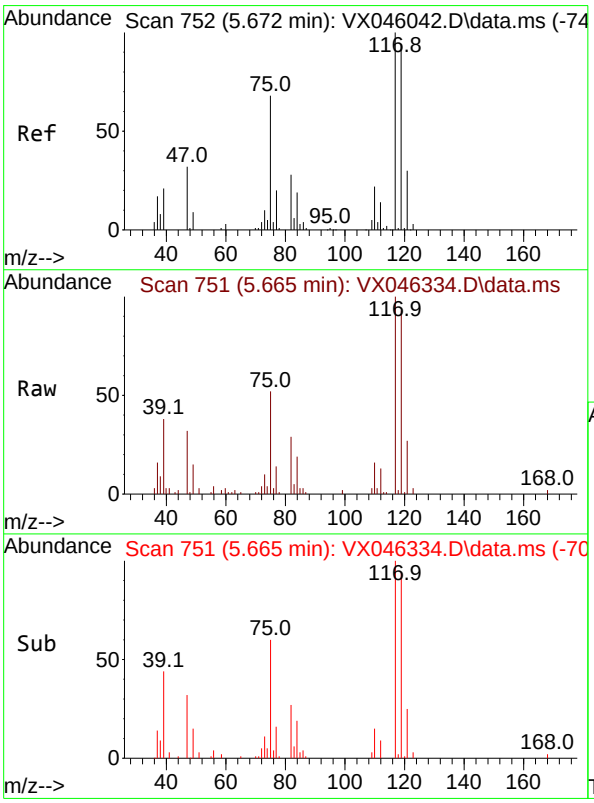
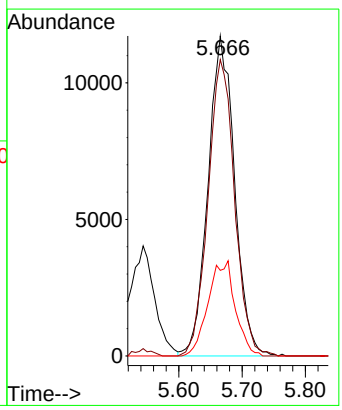
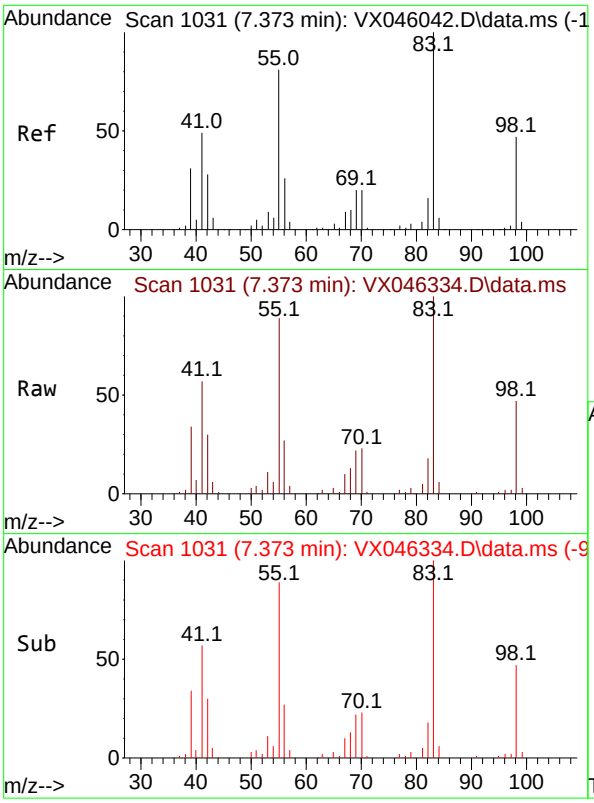


#38
Carbon Tetrachloride
Concen: 20.354 ug/l
RT: 5.665 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion:117 Resp: 34138

Ion	Ratio	Lower	Upper
117	100		
119	92.6	75.2	112.8
121	26.8	24.2	36.4

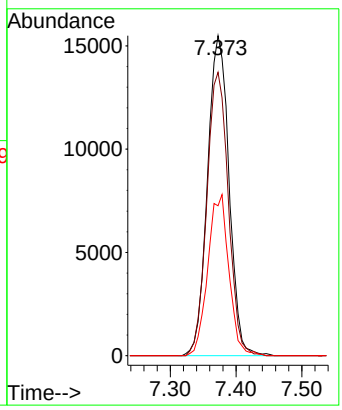




#39
Methylcyclohexane
Concen: 18.392 ug/l
RT: 7.373 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 83 Resp: 3534

Ion	Ratio	Lower	Upper
83	100		
55	88.5	64.7	97.1
98	46.8	37.4	56.2



Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

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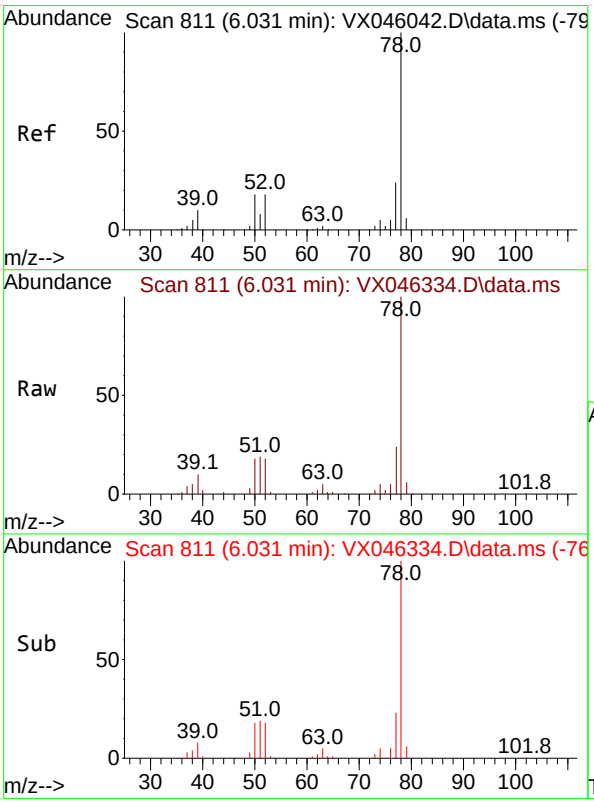
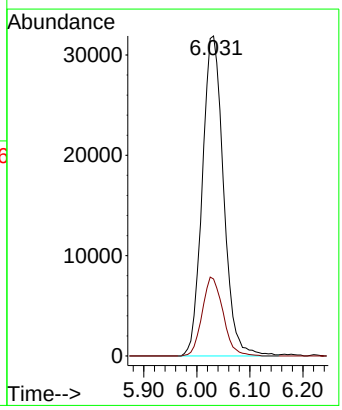
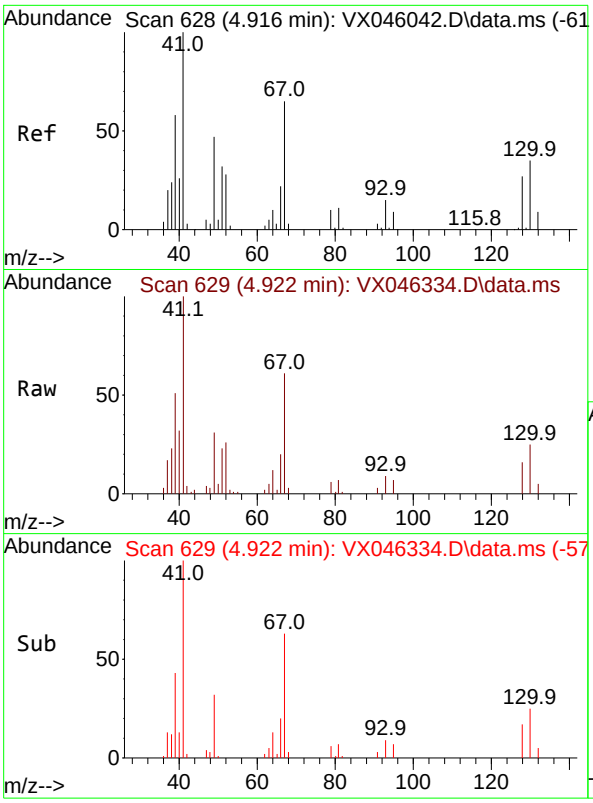


#40
Benzene
Concen: 20.255 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 78 Resp: 88565

Ion	Ratio	Lower	Upper
78	100		
77	24.1	19.0	28.4

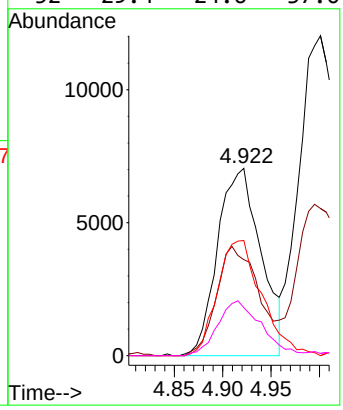




#41
Methacrylonitrile
Concen: 22.750 ug/l
RT: 4.922 min Scan# 6
Delta R.T. 0.006 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 41 Resp: 2194

Ion	Ratio	Lower	Upper
41	100		
39	55.8	47.2	70.8
67	62.9	50.7	76.1
52	29.4	24.6	37.0



Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

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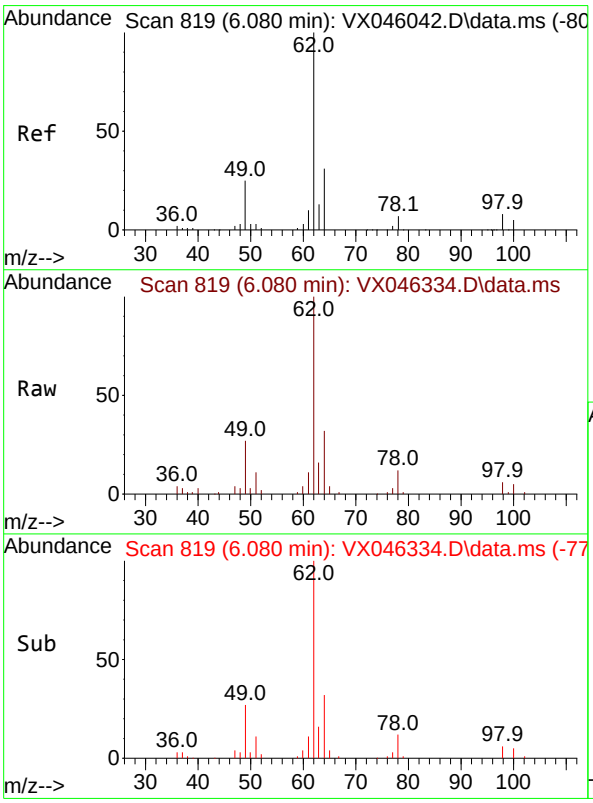
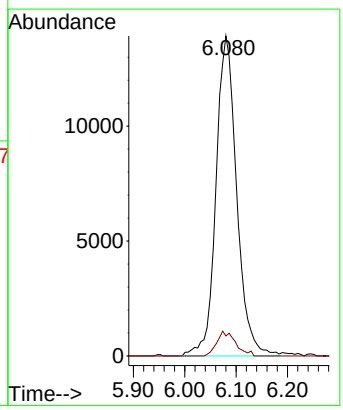
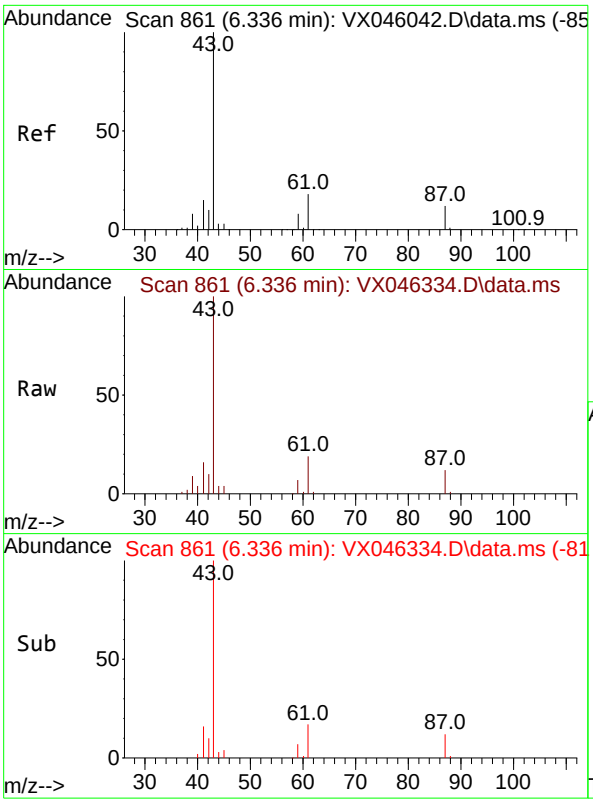


#42
1,2-Dichloroethane
Concen: 20.687 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 62 Resp: 39039

Ion	Ratio	Lower	Upper
62	100		
98	7.0	0.0	15.2





#43
Isopropyl Acetate
Concen: 20.779 ug/l
RT: 6.336 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 43 Resp: 5846

Ion	Ratio	Lower	Upper
43	100		
61	17.3	14.3	21.5
87	11.2	9.5	14.3

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

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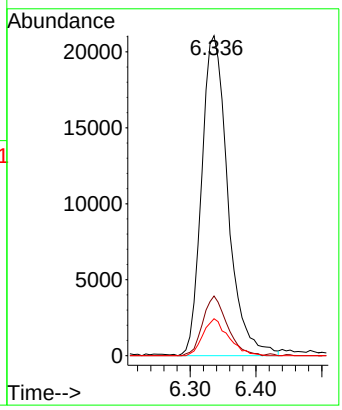
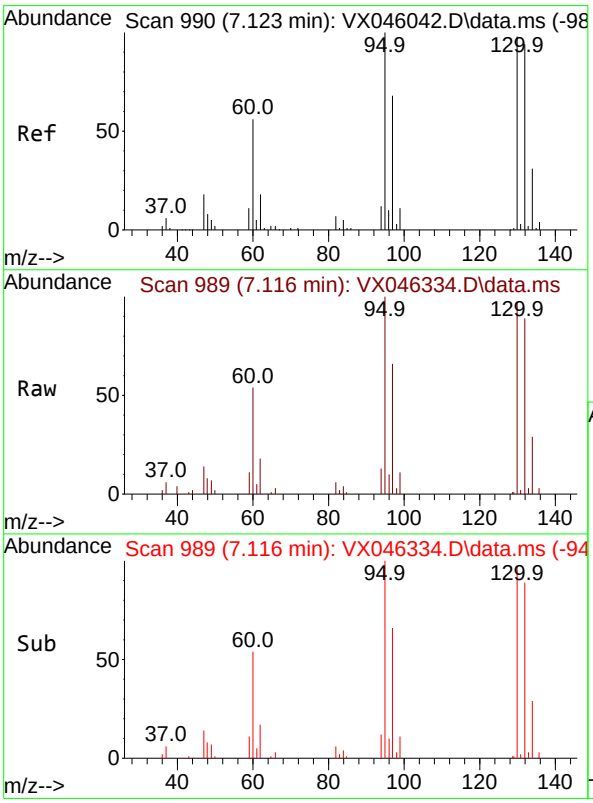
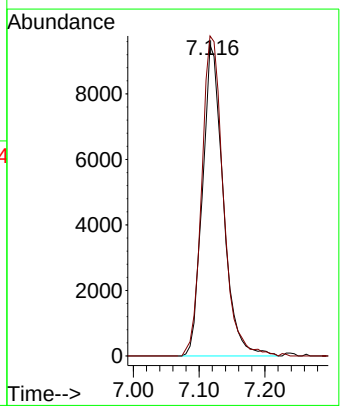


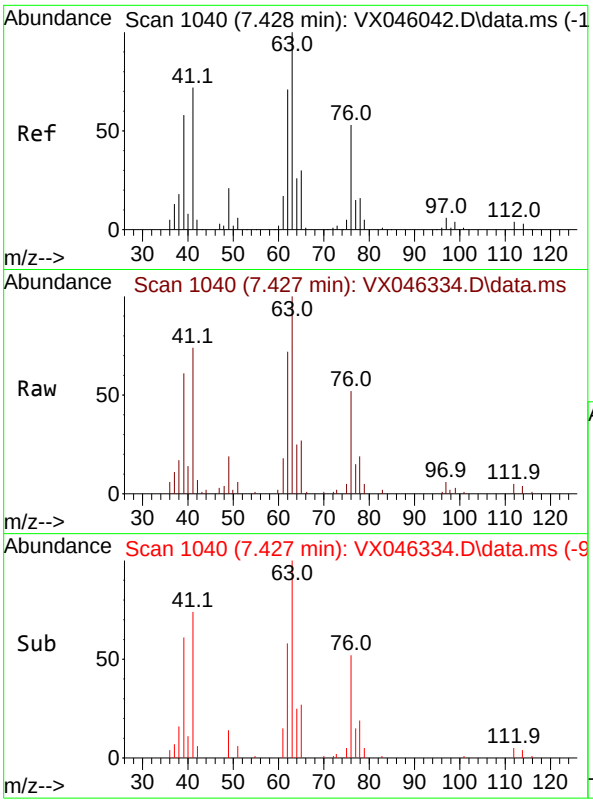


#44
Trichloroethene
Concen: 19.818 ug/l
RT: 7.116 min Scan# 989
Delta R.T. -0.006 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion:130 Resp: 20856

Ion	Ratio	Lower	Upper
130	100		
95	102.9	0.0	204.2

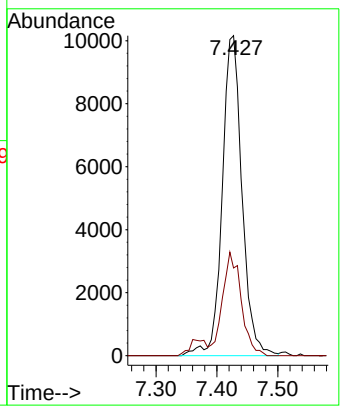




#45
1,2-Dichloropropane
Concen: 21.051 ug/l
RT: 7.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 63 Resp: 2288

Ion	Ratio	Lower	Upper
63	100		
65	27.4	24.1	36.1



Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

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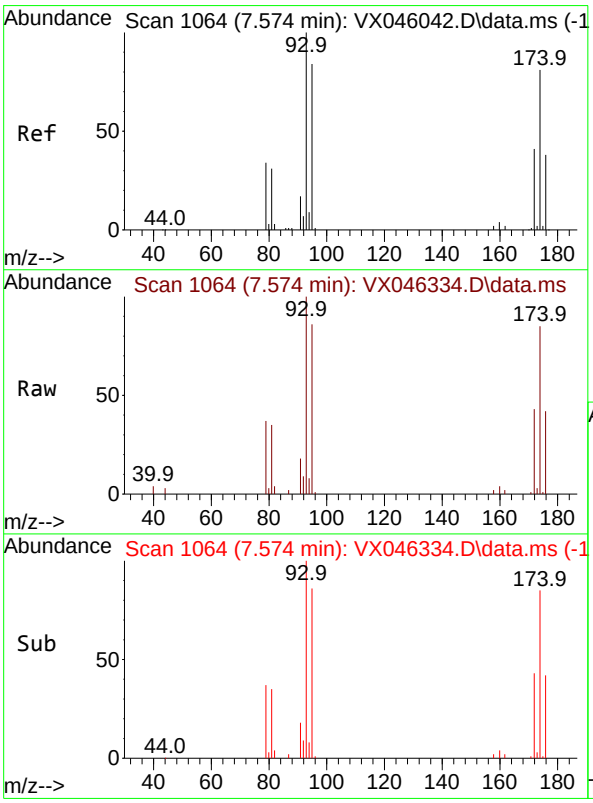
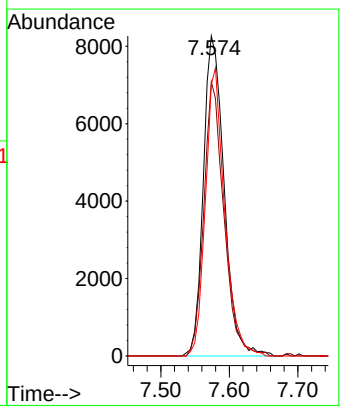
Supervised By :Mahesh Dadoda 05/26/2025

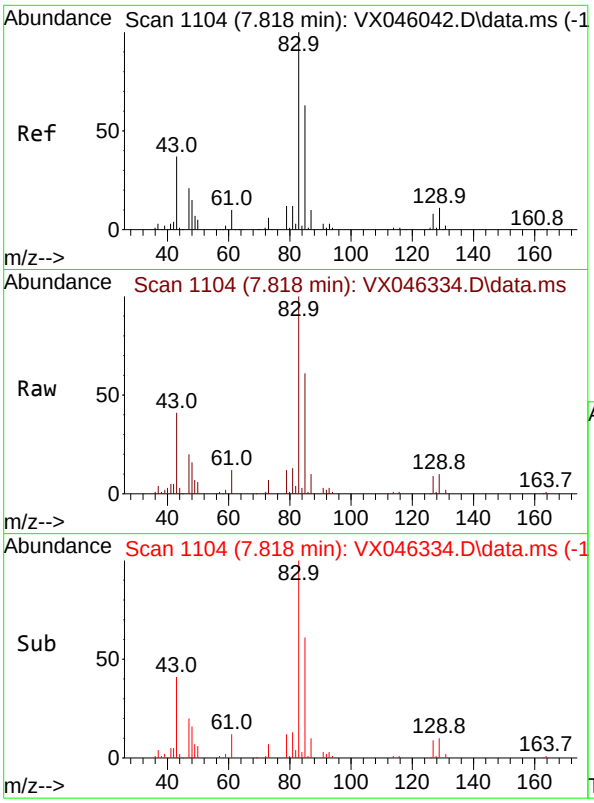


#46
Dibromomethane
Concen: 20.292 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 93 Resp: 17401

Ion	Ratio	Lower	Upper
93	100		
95	82.7	65.6	98.4
174	83.5	68.2	102.2

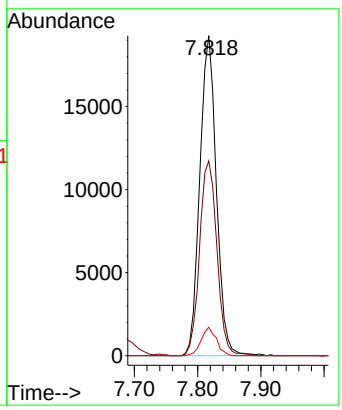




#47
Bromodichloromethane
Concen: 20.847 ug/l
RT: 7.818 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 83 Resp: 3521

Ion	Ratio	Lower	Upper
83	100		
85	60.9	50.5	75.7
127	8.9	6.5	9.7



Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

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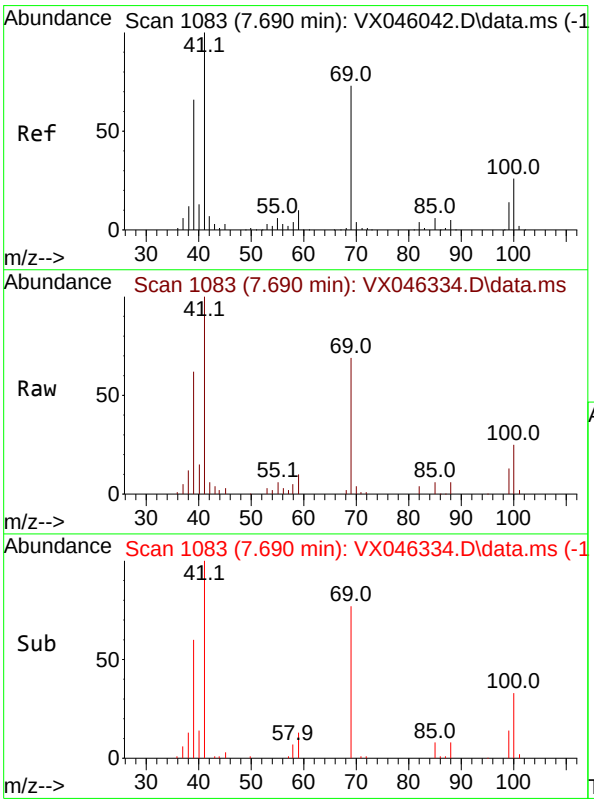
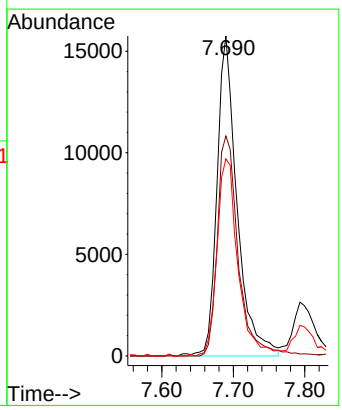
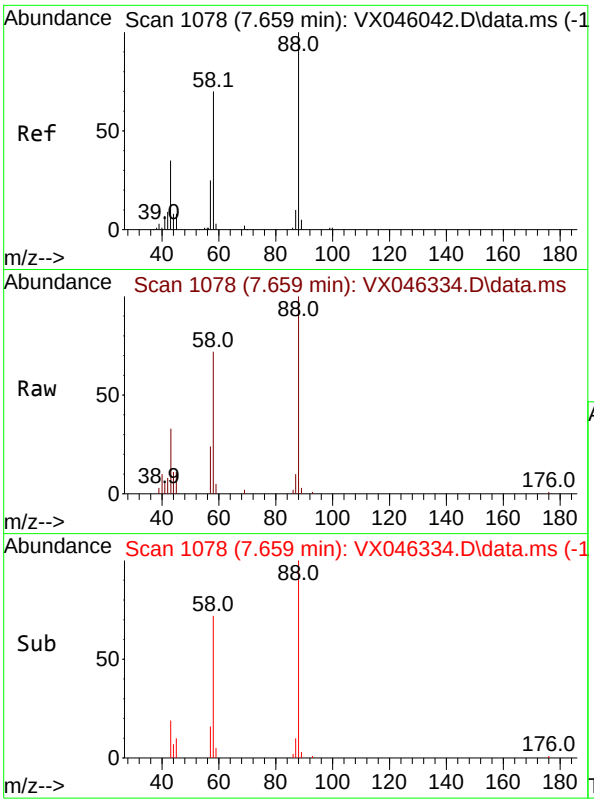


#48
Methyl methacrylate
Concen: 21.365 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 41 Resp: 30700

Ion	Ratio	Lower	Upper
41	100		
69	72.0	58.5	87.7
39	64.5	51.7	77.5

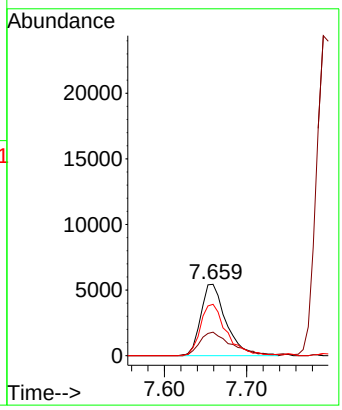




#49
1,4-Dioxane
Concen: 426.008 ug/l
RT: 7.659 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 88 Resp: 1162

Ion	Ratio	Lower	Upper
88	100		
43	41.6	33.4	50.2
58	74.2	58.6	88.0



Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

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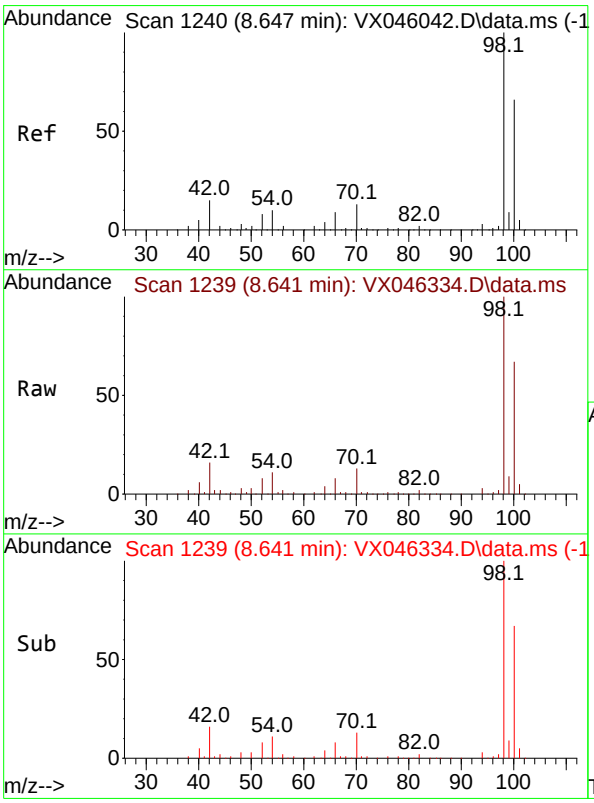
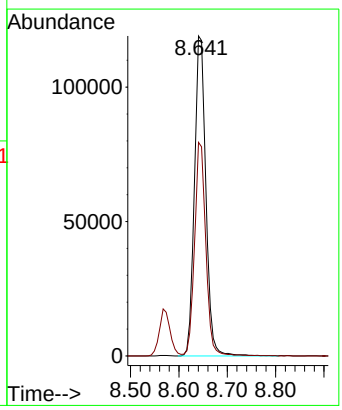
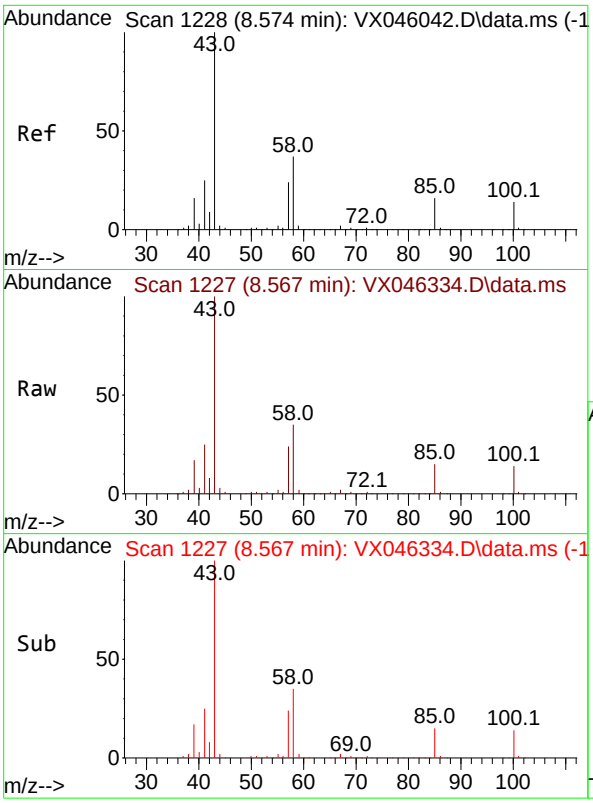


#50
Toluene-d8
Concen: 50.661 ug/l
RT: 8.641 min Scan# 1239
Delta R.T. -0.006 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 98 Resp: 194812

Ion	Ratio	Lower	Upper
98	100		
100	65.3	53.5	80.3

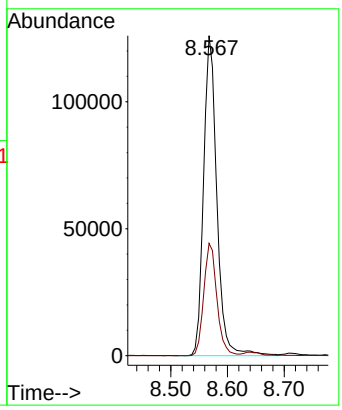




#51
4-Methyl-2-Pentanone
Concen: 109.635 ug/l
RT: 8.567 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 43 Resp: 20475

Ion	Ratio	Lower	Upper
43	100		
58	34.8	28.9	43.3



Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

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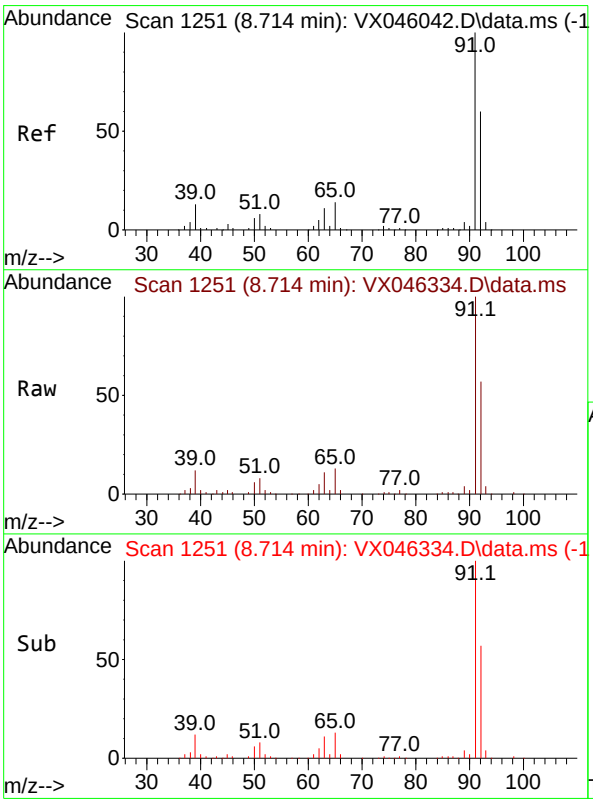
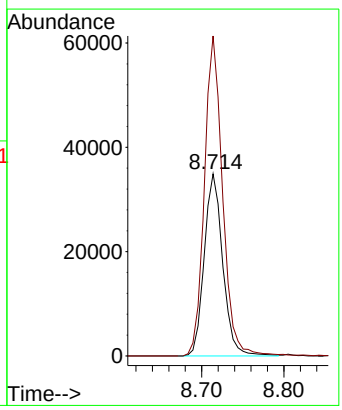
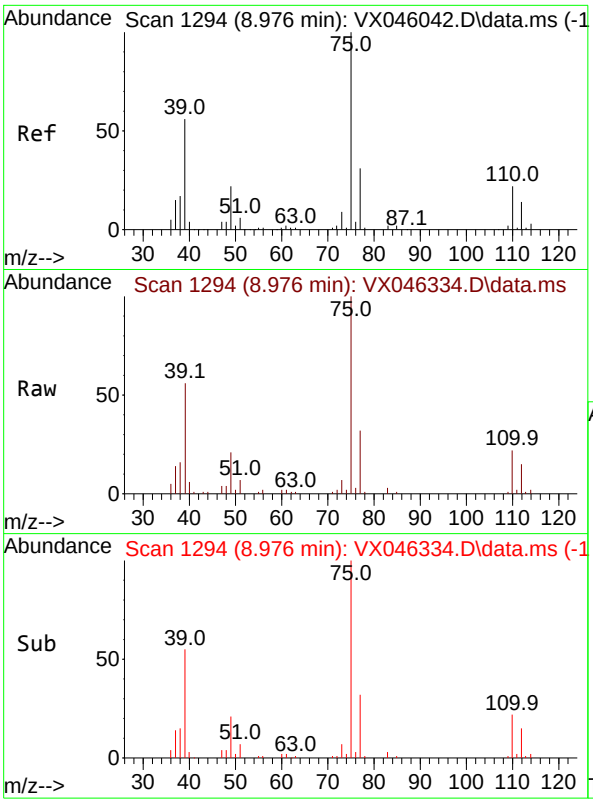


#52
Toluene
Concen: 20.387 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 92 Resp: 54660

Ion	Ratio	Lower	Upper
92	100		
91	173.0	136.6	205.0

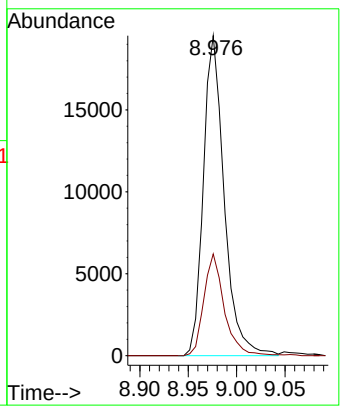




#53
t-1,3-Dichloropropene
Concen: 19.548 ug/l
RT: 8.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 75 Resp: 2934

Ion	Ratio	Lower	Upper
75	100		
77	31.8	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

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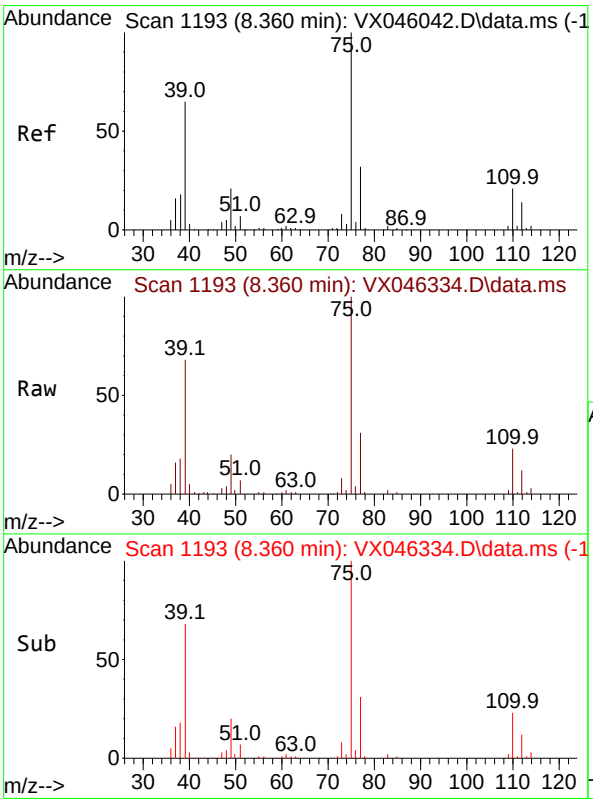
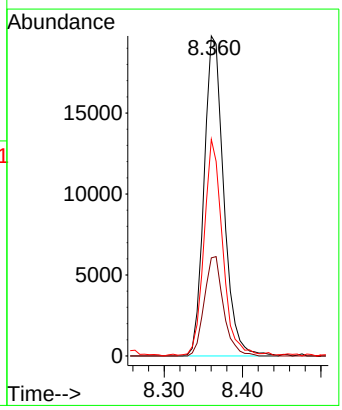
Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025

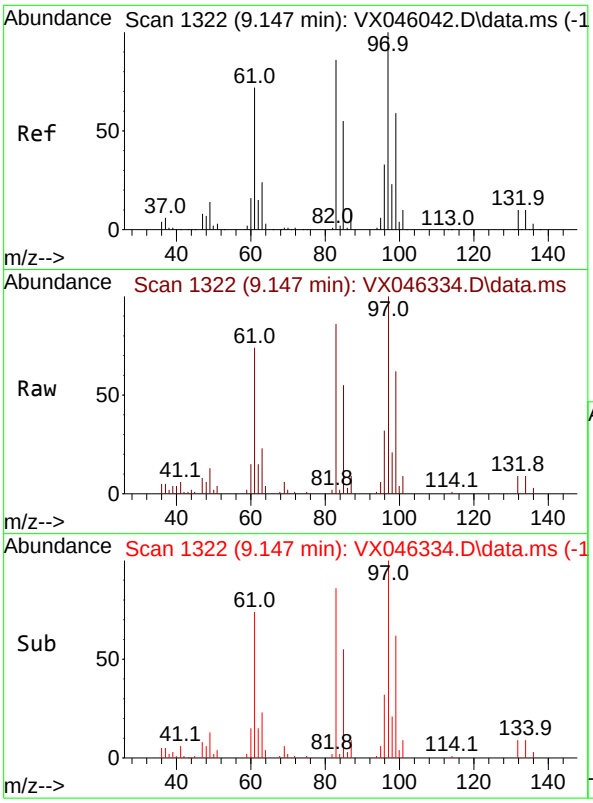


#54
cis-1,3-Dichloropropene
Concen: 20.748 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 75 Resp: 34425

Ion	Ratio	Lower	Upper
75	100		
77	30.6	25.4	38.0
39	67.4	52.2	78.4

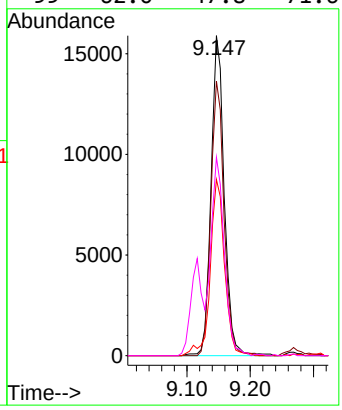




#55
1,1,2-Trichloroethane
Concen: 21.823 ug/l
RT: 9.147 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 97 Resp: 2307

Ion	Ratio	Lower	Upper
97	100		
83	85.8	69.0	103.6
85	55.1	44.3	66.5
99	62.0	47.8	71.6



Instrument :
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ClientSampleId :
VX0523WBS01

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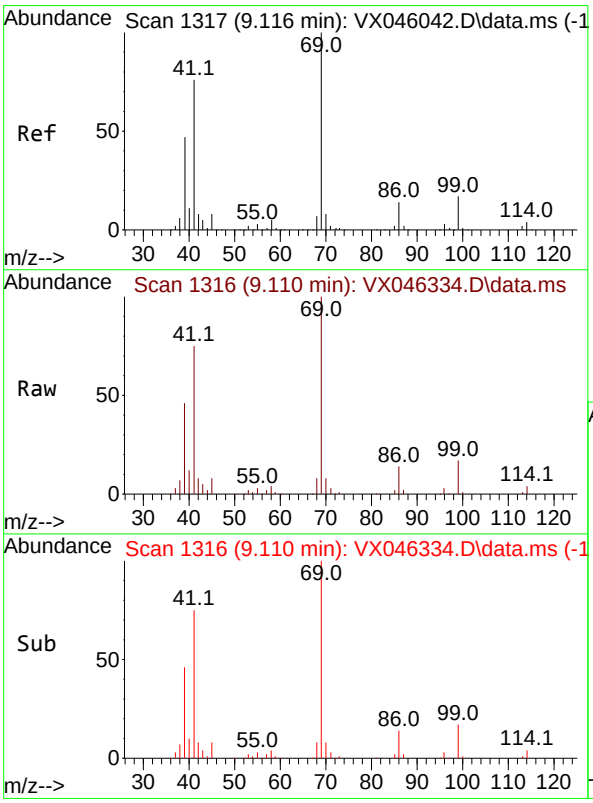
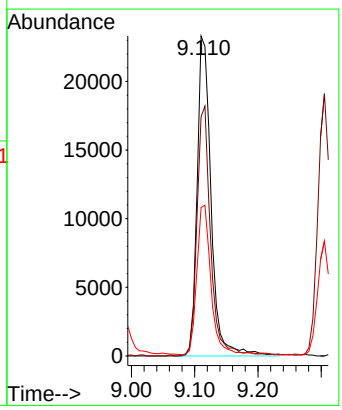
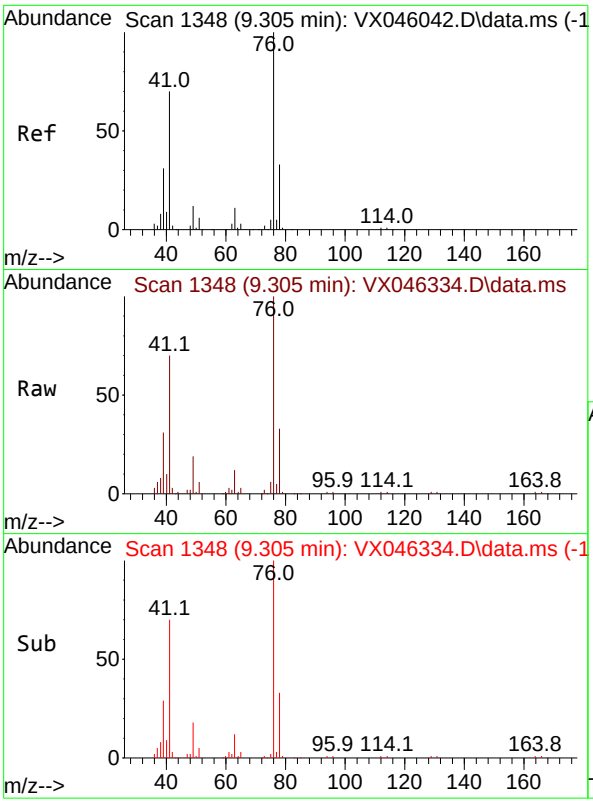


#56
Ethyl methacrylate
Concen: 21.331 ug/l
RT: 9.110 min Scan# 1316
Delta R.T. -0.006 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 69 Resp: 35941

Ion	Ratio	Lower	Upper
69	100		
41	76.1	60.8	91.2
39	47.1	39.0	58.6

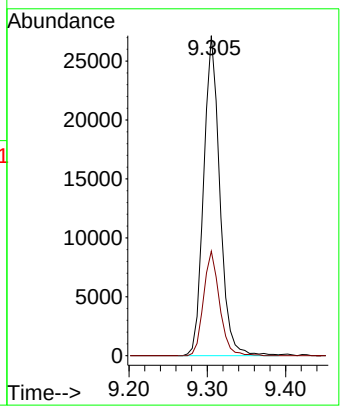




#57
1,3-Dichloropropane
Concen: 20.522 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 76 Resp: 3896

Ion	Ratio	Lower	Upper
76	100		
78	32.2	26.3	39.5



Instrument :
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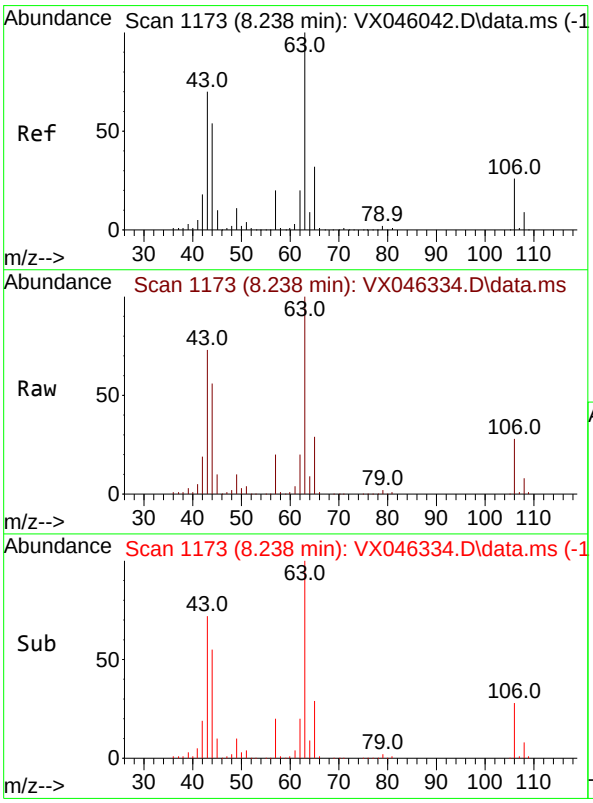
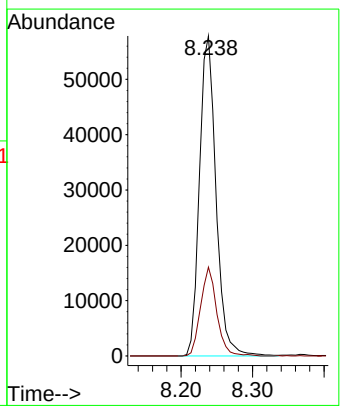
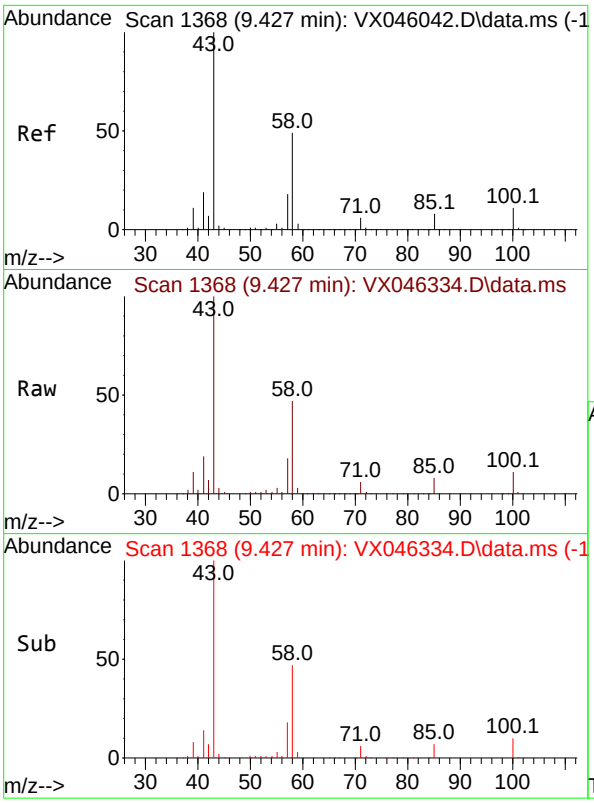


#58
2-Chloroethyl Vinyl ether
Concen: 108.093 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 63 Resp: 92851

Ion	Ratio	Lower	Upper
63	100		
106	27.1	21.5	32.3

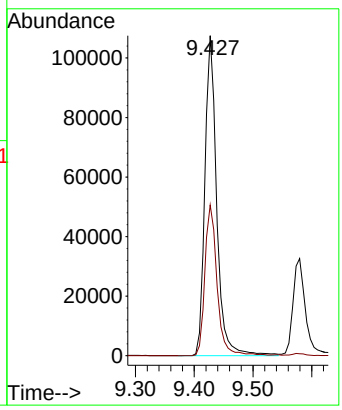




#59
2-Hexanone
Concen: 109.257 ug/l
RT: 9.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 43 Resp: 15096

Ion	Ratio	Lower	Upper
43	100		
58	48.5	24.9	74.6



Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

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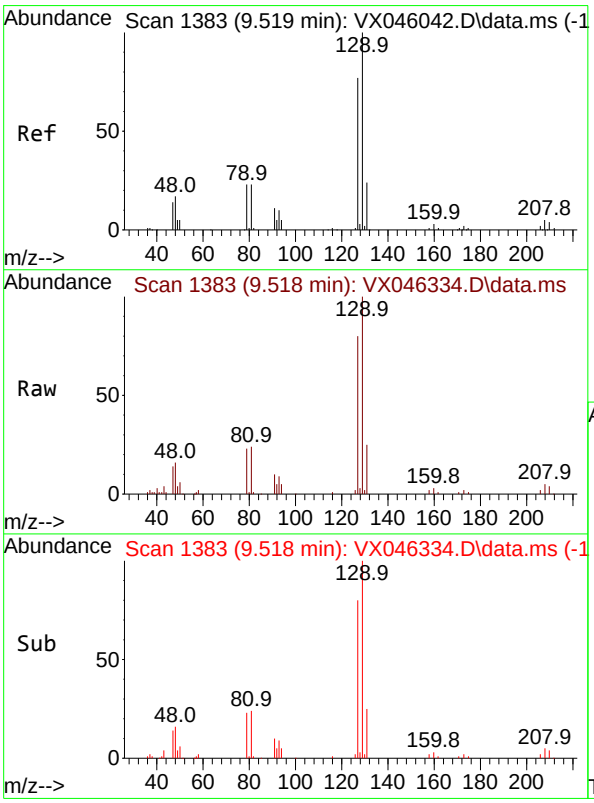
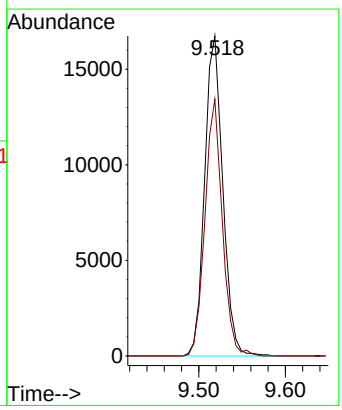
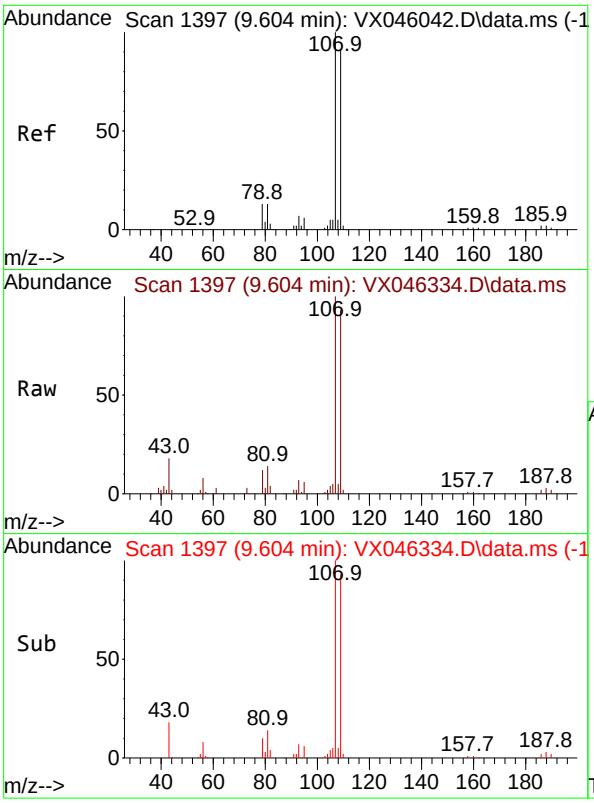


#60
Dibromochloromethane
Concen: 20.981 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion:129 Resp: 24359

Ion	Ratio	Lower	Upper
129	100		
127	77.0	39.3	117.8

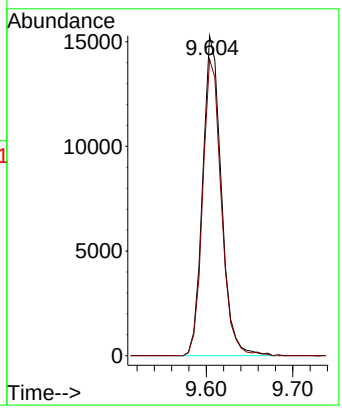




#61
1,2-Dibromoethane
Concen: 20.748 ug/l
RT: 9.604 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion:107 Resp: 2279

Ion	Ratio	Lower	Upper
107	100		
109	92.9	73.3	109.9



Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

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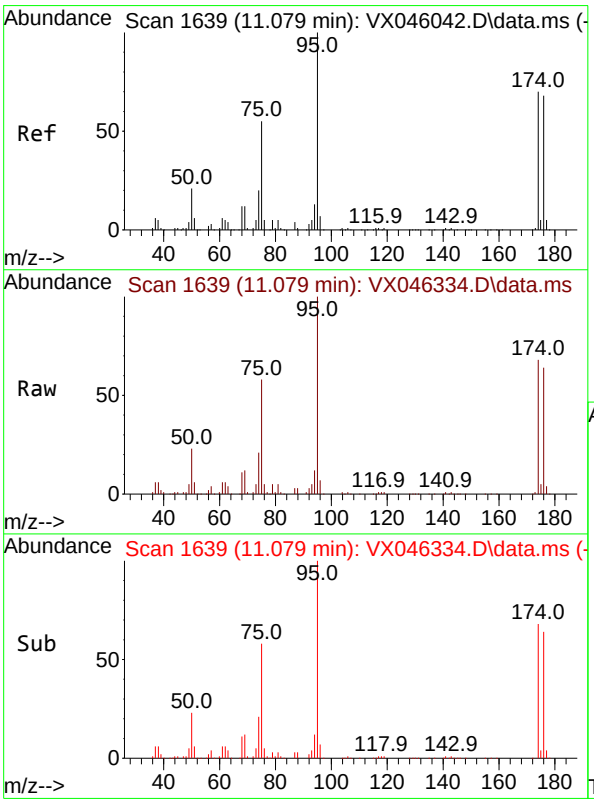
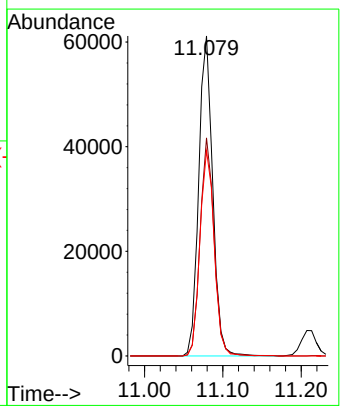
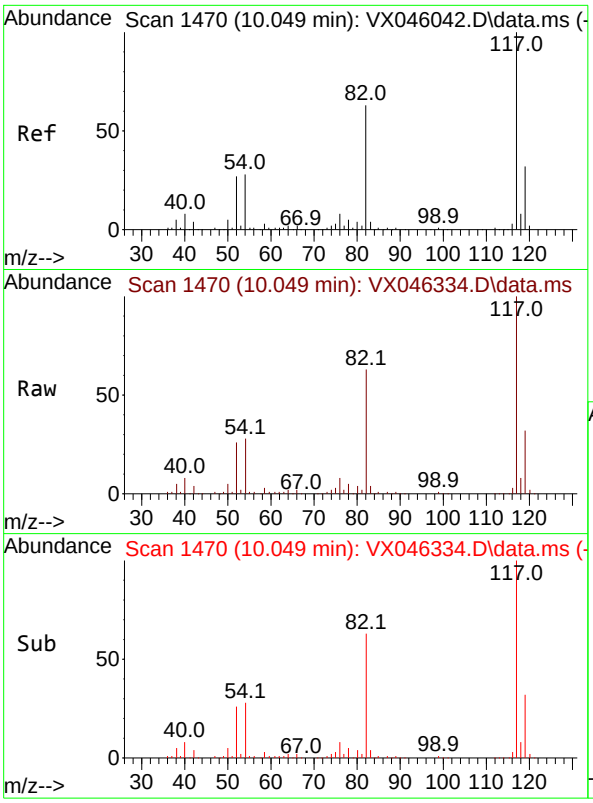


#62
4-Bromofluorobenzene
Concen: 51.423 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 95 Resp: 75851

Ion	Ratio	Lower	Upper
95	100		
174	67.7	0.0	135.8
176	65.6	0.0	131.4

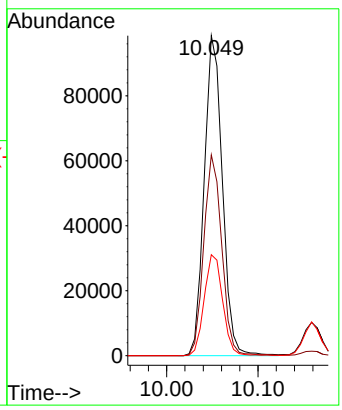




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion:117 Resp: 13535

Ion	Ratio	Lower	Upper
117	100		
82	62.8	50.6	76.0
119	31.5	25.8	38.6



Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

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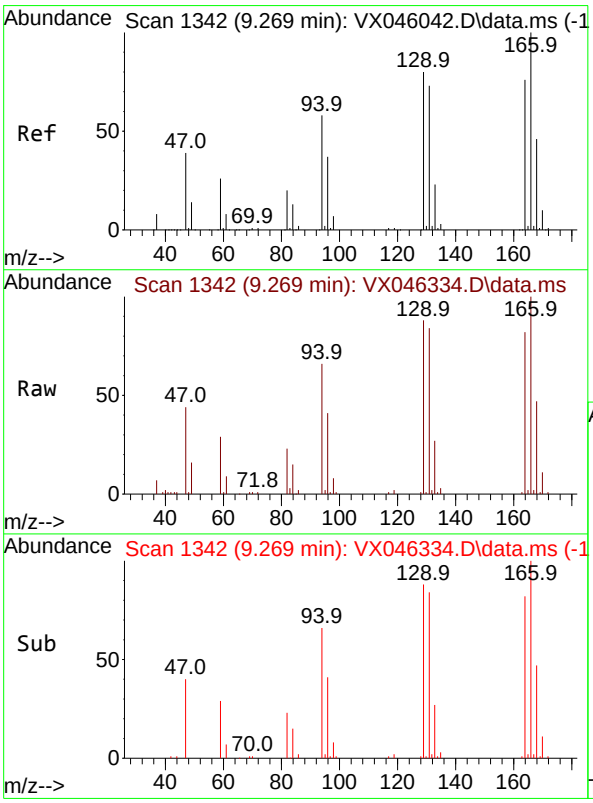
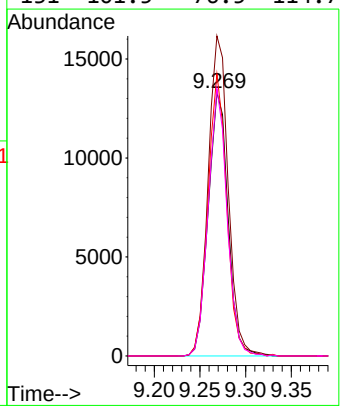
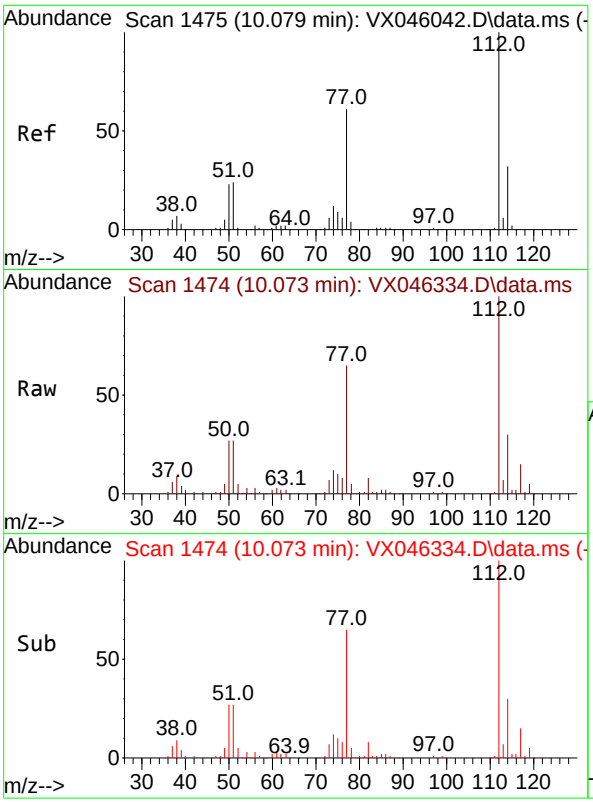


#64
Tetrachloroethene
Concen: 20.878 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion:164 Resp: 19995

Ion	Ratio	Lower	Upper
164	100		
166	121.5	105.0	157.6
129	107.0	83.5	125.3
131	101.5	76.5	114.7





#65
Chlorobenzene
Concen: 20.149 ug/l
RT: 10.073 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion:112 Resp: 5969

Ion	Ratio	Lower	Upper
112	100		
114	30.1	25.4	38.2

Instrument :
MSVOA_X
ClientSampleId :
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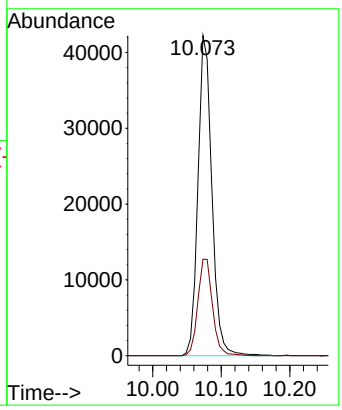
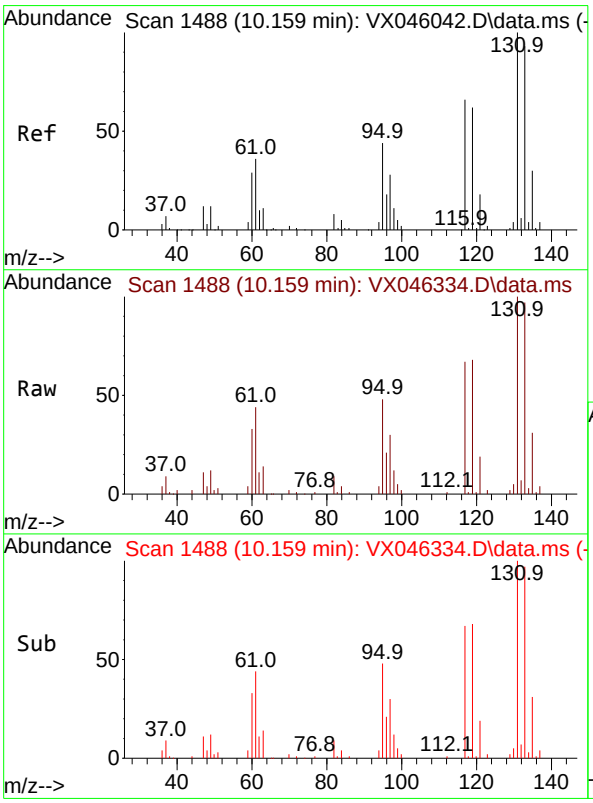
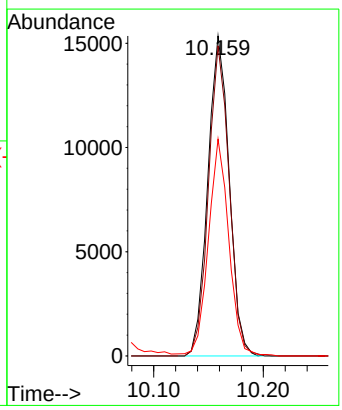


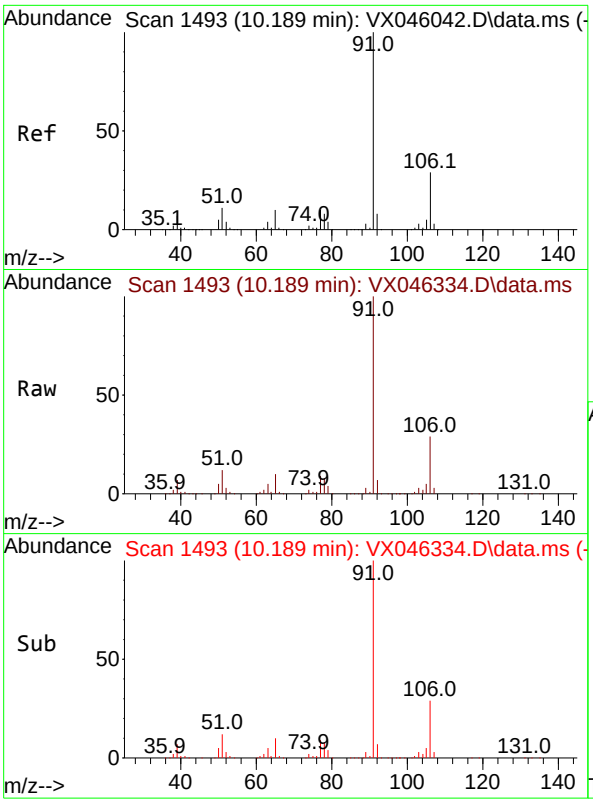


#66
1,1,1,2-Tetrachloroethane
Concen: 20.551 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion:131 Resp: 20790

Ion	Ratio	Lower	Upper
131	100		
133	94.0	47.3	141.9
119	64.9	31.6	95.0

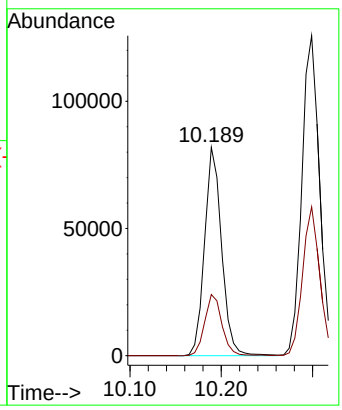




#67
Ethyl Benzene
Concen: 20.280 ug/l
RT: 10.189 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 91 Resp: 10590

Ion	Ratio	Lower	Upper
91	100		
106	29.4	23.4	35.2



Instrument :
MSVOA_X
ClientSampleId :
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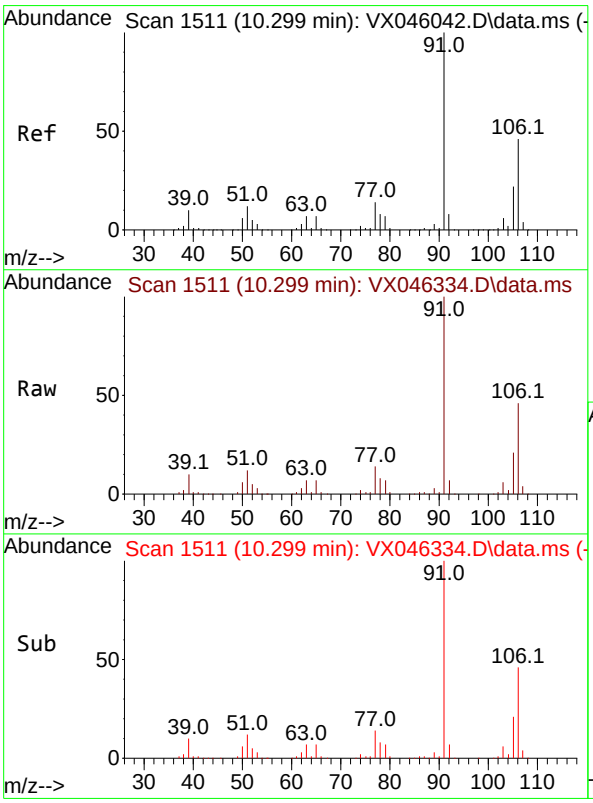
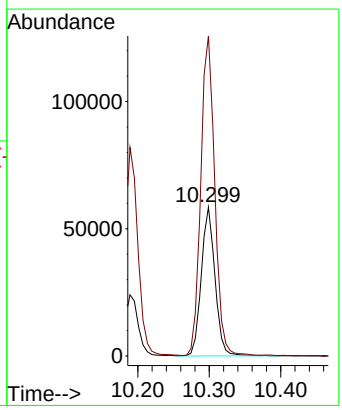
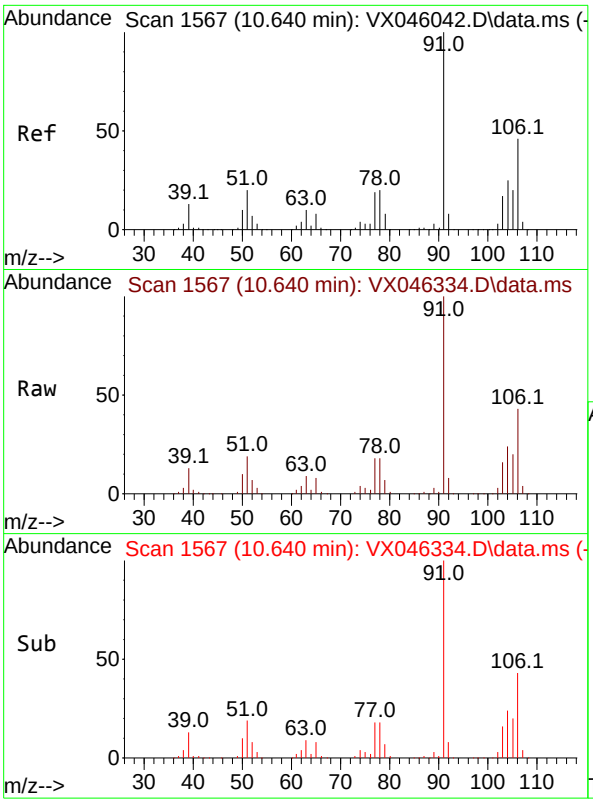


#68
m/p-Xylenes
Concen: 40.642 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion:106 Resp: 77627

Ion	Ratio	Lower	Upper
106	100		
91	220.2	171.2	256.8

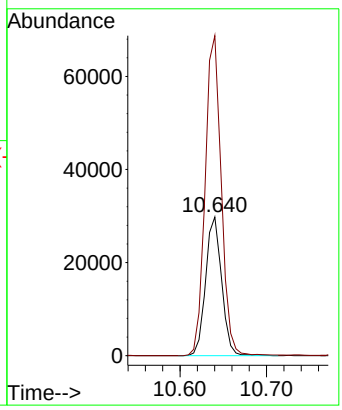




#69
o-Xylene
Concen: 20.548 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion:106 Resp: 3826

Ion	Ratio	Lower	Upper
106	100		
91	232.6	112.7	338.1



Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

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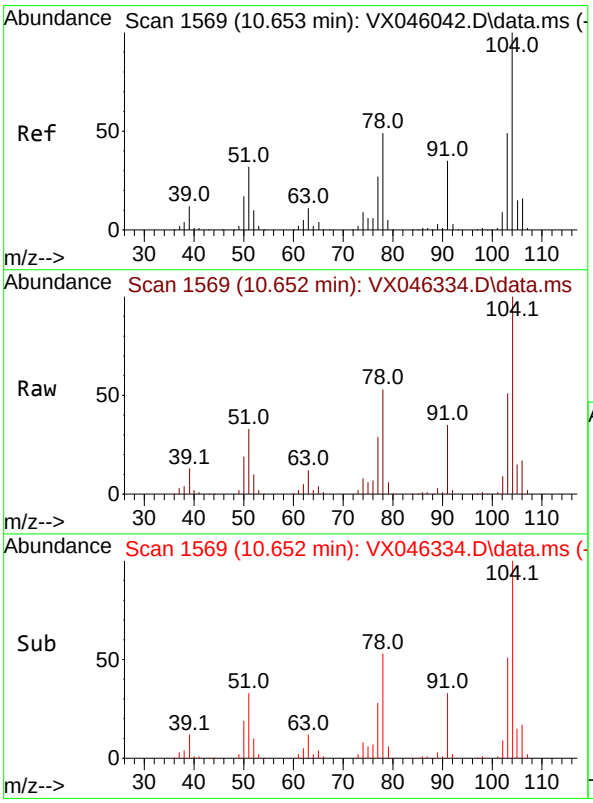
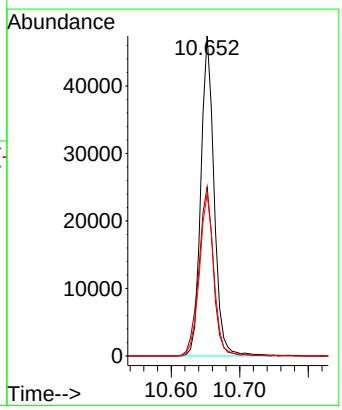
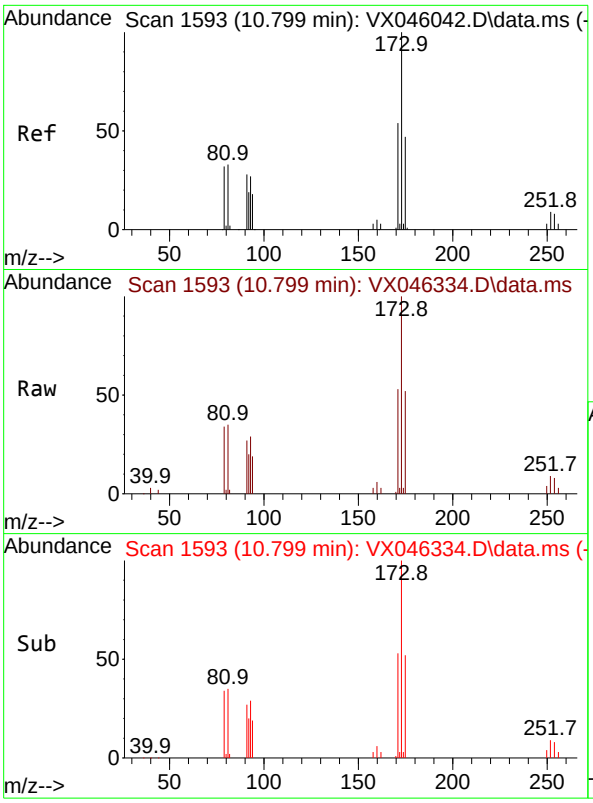


#70
Styrene
Concen: 20.979 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion:104 Resp: 63992

Ion	Ratio	Lower	Upper
104	100		
78	58.3	45.7	68.5
103	55.7	43.7	65.5

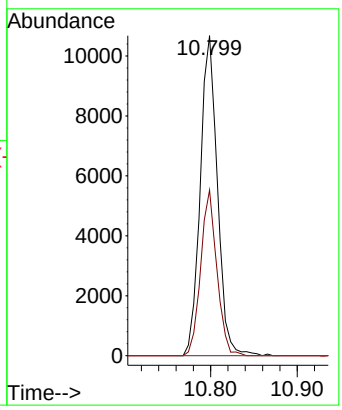




#71
Bromoform
Concen: 19.369 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion:173 Resp: 1471

Ion	Ratio	Lower	Upper
173	100		
175	48.6	23.4	70.0
254	0.0	0.0	0.0



Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

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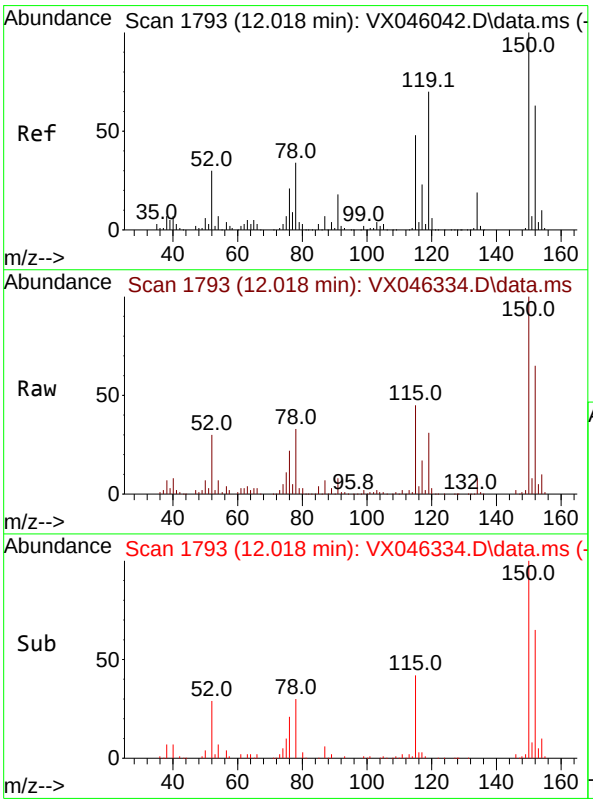
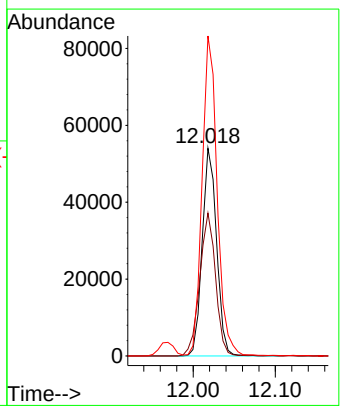
Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025

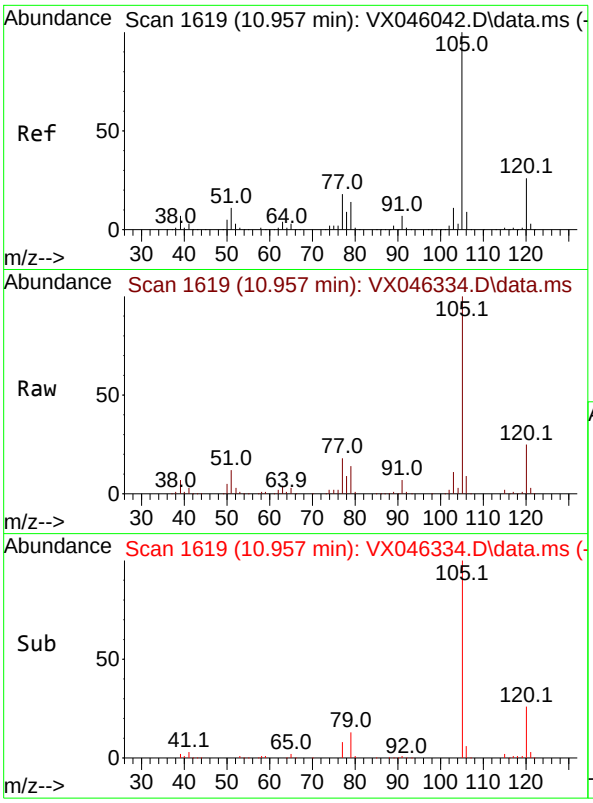


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion:152 Resp: 65596

Ion	Ratio	Lower	Upper
152	100		
115	75.8	46.9	140.7
150	161.5	0.0	351.0

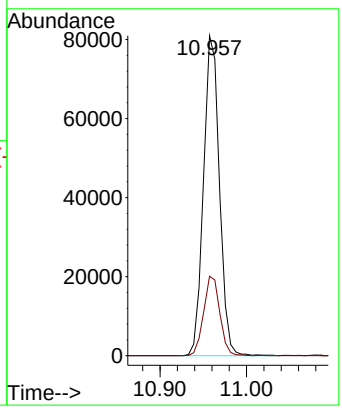




#73
Isopropylbenzene
Concen: 20.246 ug/l
RT: 10.957 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion:105 Resp: 10339

Ion	Ratio	Lower	Upper
105	100		
120	25.2	12.8	38.4



Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

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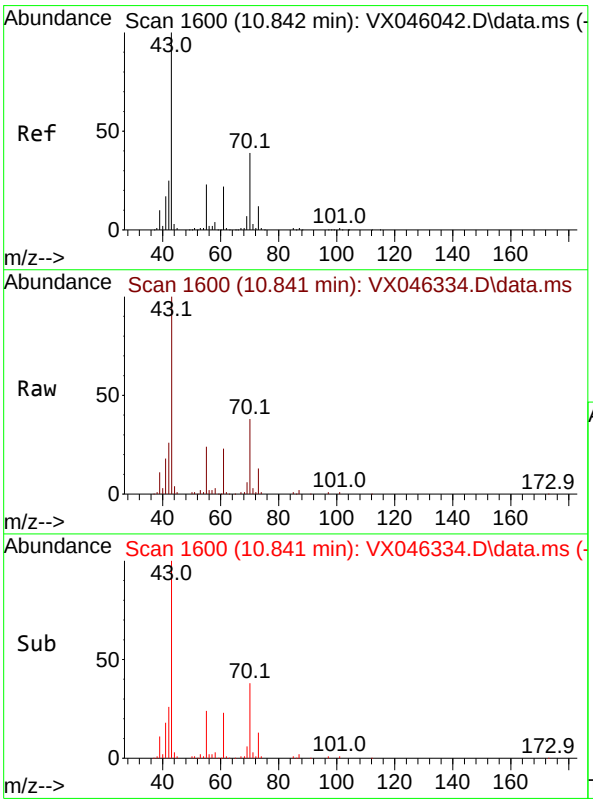
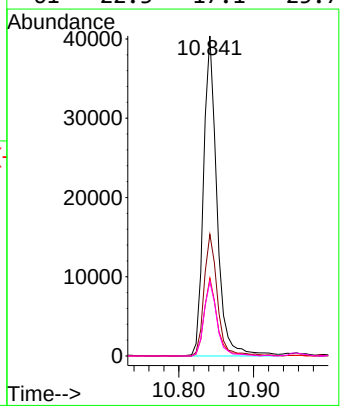
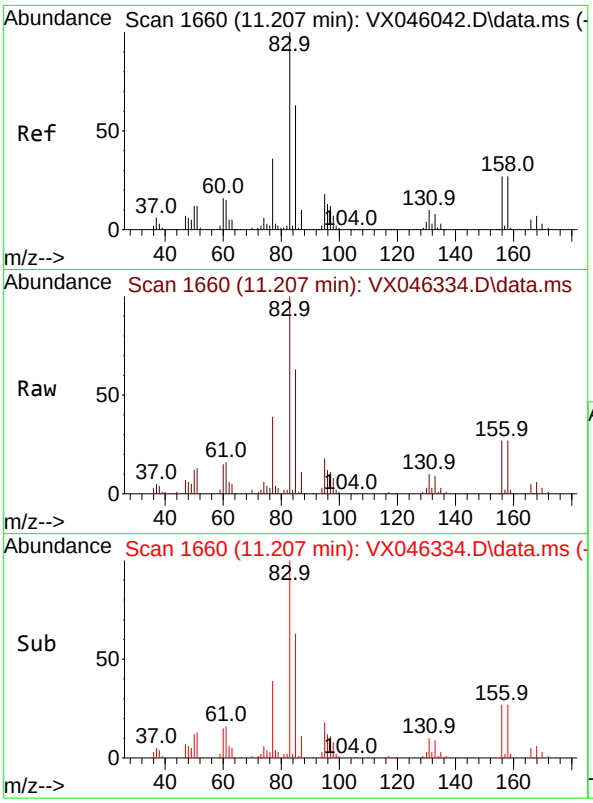


#74
N-amyl acetate
Concen: 19.965 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 43 Resp: 50382

Ion	Ratio	Lower	Upper
43	100		
70	37.9	30.9	46.3
55	23.4	18.7	28.1
61	22.3	17.1	25.7

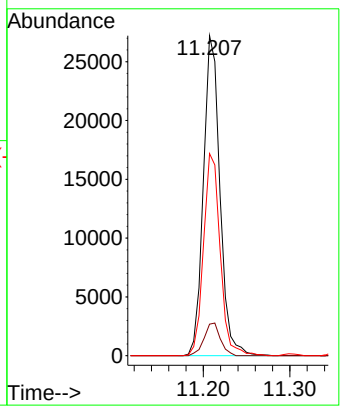




#75
1,1,2,2-Tetrachloroethane
Concen: 20.176 ug/l
RT: 11.207 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 83 Resp: 3610

Ion	Ratio	Lower	Upper
83	100		
131	10.1	5.0	14.9
85	63.6	31.9	95.7



Instrument :
MSVOA_X
ClientSampleId :
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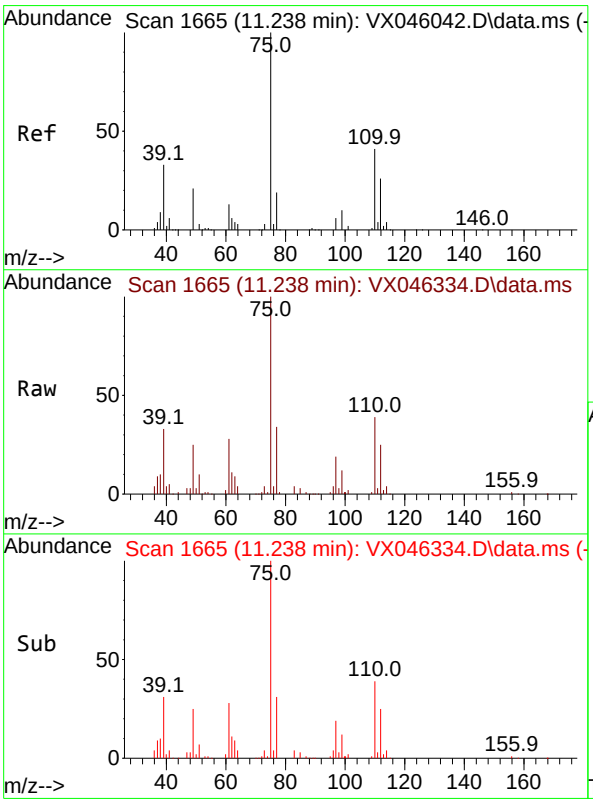
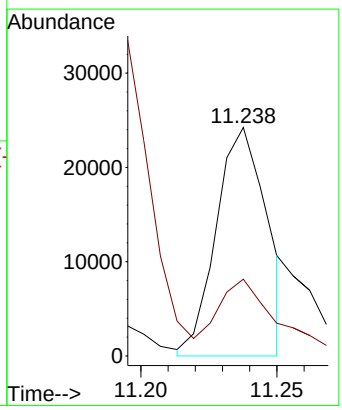
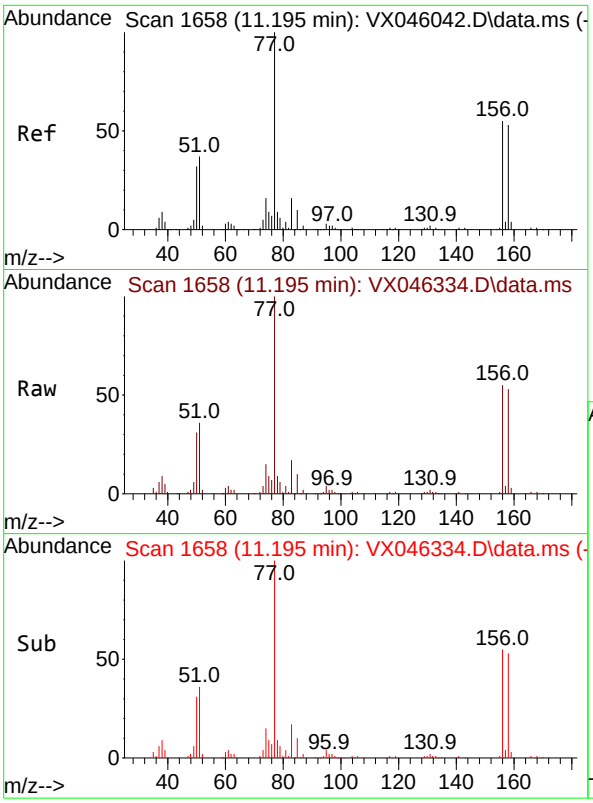


#76
1,2,3-Trichloropropane
Concen: 19.881 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 75 Resp: 31390

Ion	Ratio	Lower	Upper
75	100		
77	39.9	20.5	61.5

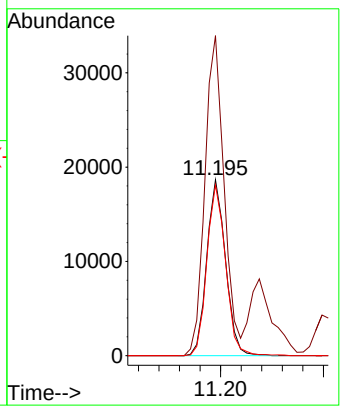




#77
Bromobenzene
Concen: 19.979 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion:156 Resp: 2368

Ion	Ratio	Lower	Upper
156	100		
77	186.0	92.8	278.3
158	97.0	48.8	146.3



Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

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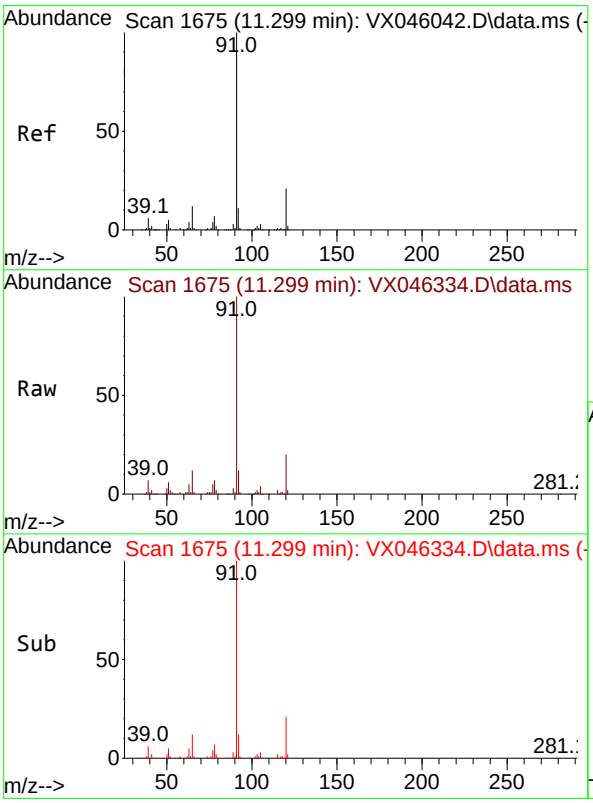
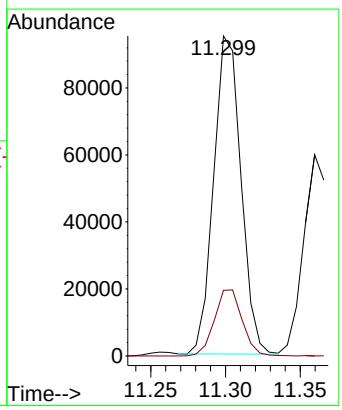
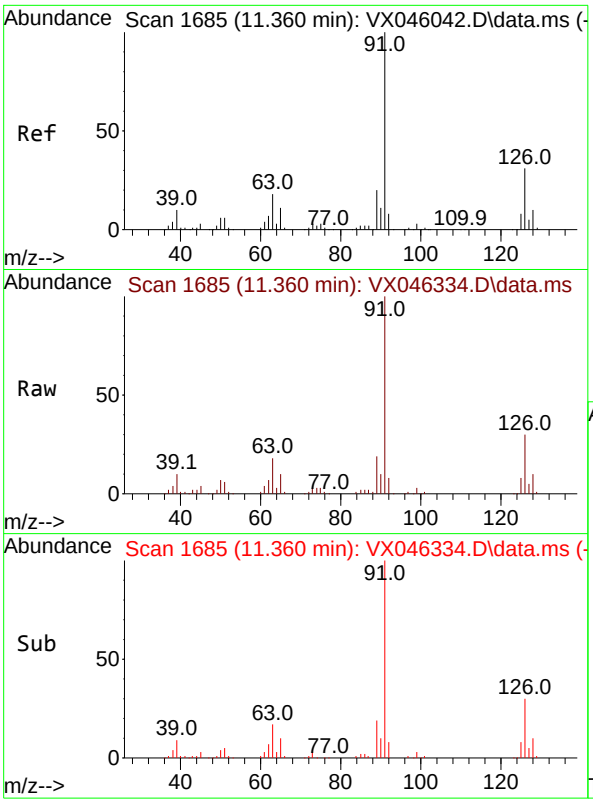


#78
n-propylbenzene
Concen: 20.282 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 91 Resp: 120436

Ion	Ratio	Lower	Upper
91	100		
120	21.2	10.8	32.4

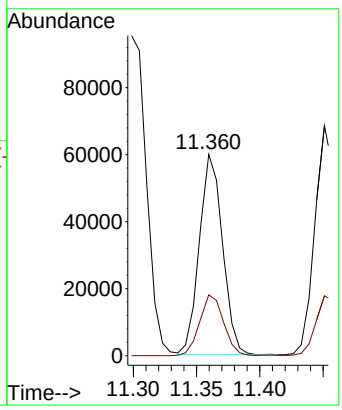




#79
2-Chlorotoluene
Concen: 19.991 ug/l
RT: 11.360 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 91 Resp: 7656

Ion	Ratio	Lower	Upper
91	100		
126	31.5	15.6	46.7



Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

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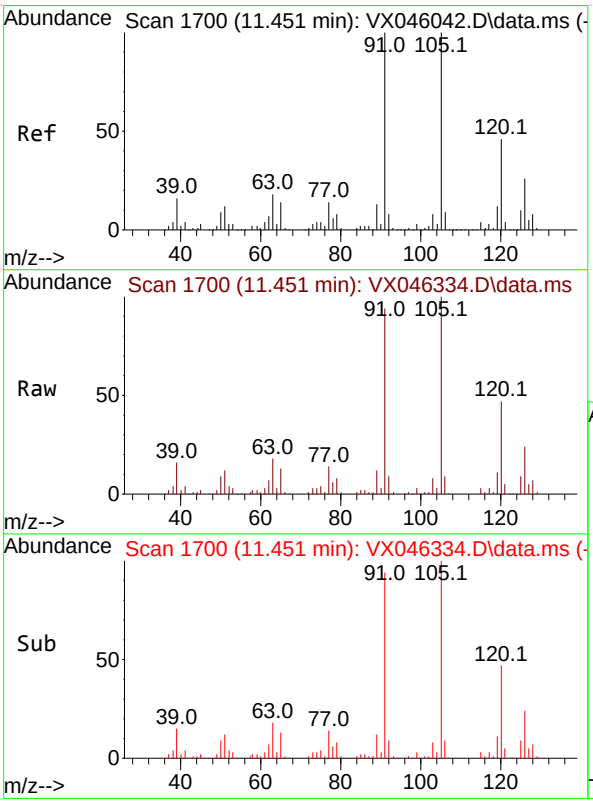
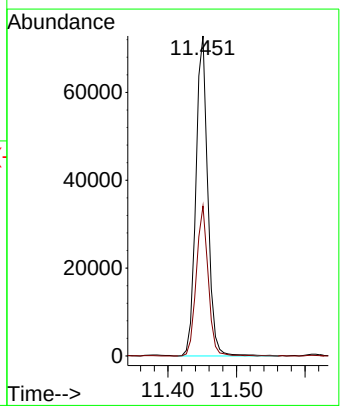
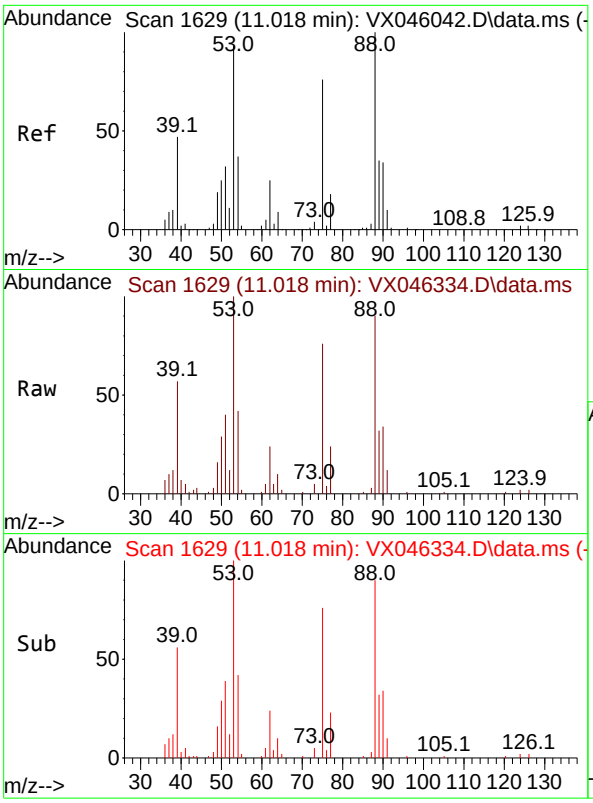


#80
1,3,5-Trimethylbenzene
Concen: 20.669 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion:105 Resp: 88181

Ion	Ratio	Lower	Upper
105	100		
120	46.7	23.1	69.2

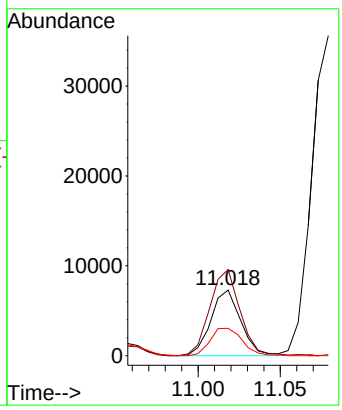




#81
trans-1,4-Dichloro-2-butene
Concen: 19.044 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 75 Resp: 923

Ion	Ratio	Lower	Upper
75	100		
53	132.8	100.5	150.7
89	44.7	37.0	55.6



Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

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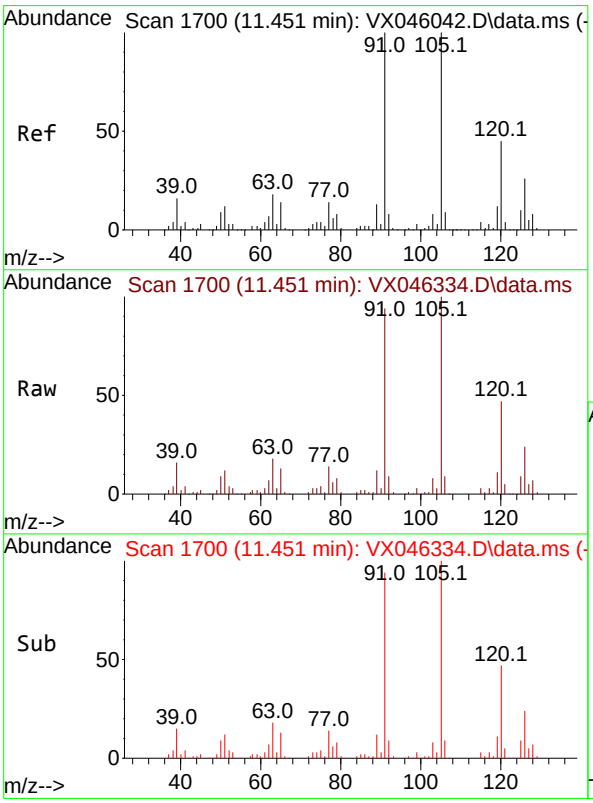
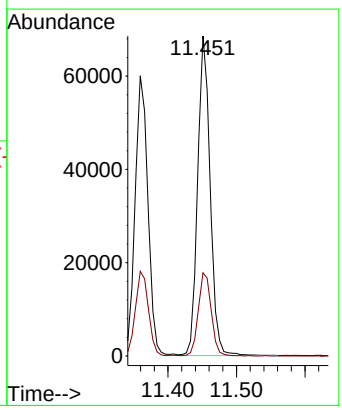
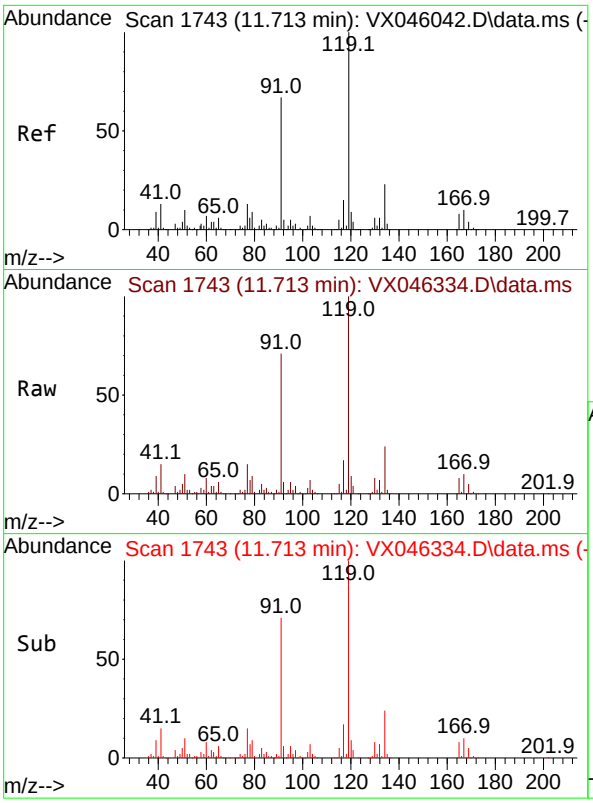


#82
4-Chlorotoluene
Concen: 20.476 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 91 Resp: 86969

Ion	Ratio	Lower	Upper
91	100		
126	26.9	13.3	39.8

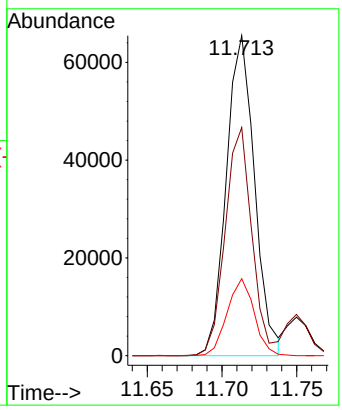




#83
tert-Butylbenzene
Concen: 20.063 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion:119 Resp: 8621

Ion	Ratio	Lower	Upper
119	100		
91	66.7	32.9	98.7
134	22.9	11.4	34.1



Instrument :
MSVOA_X
ClientSampleId :
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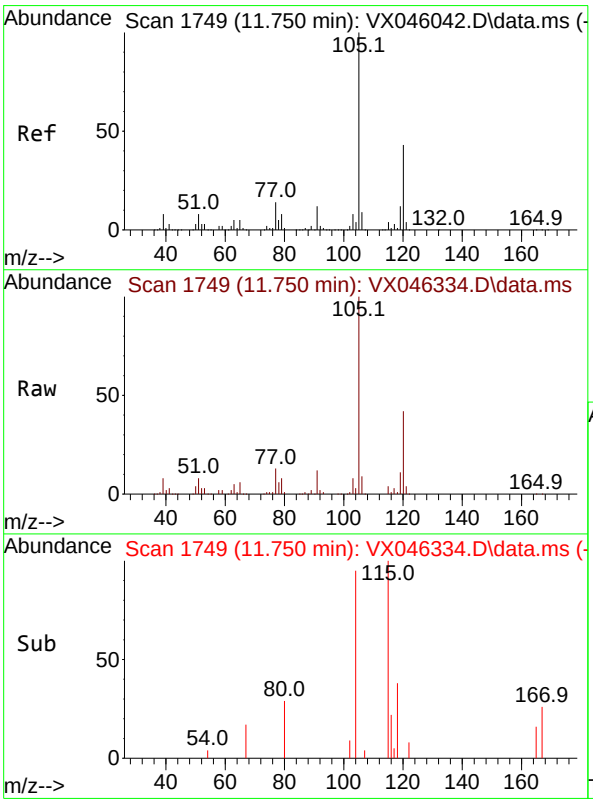
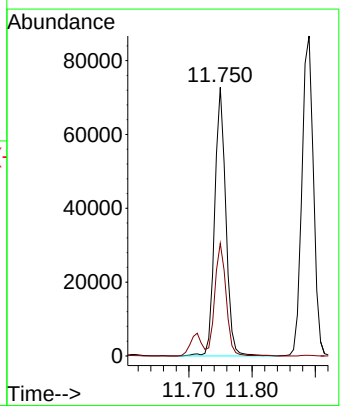
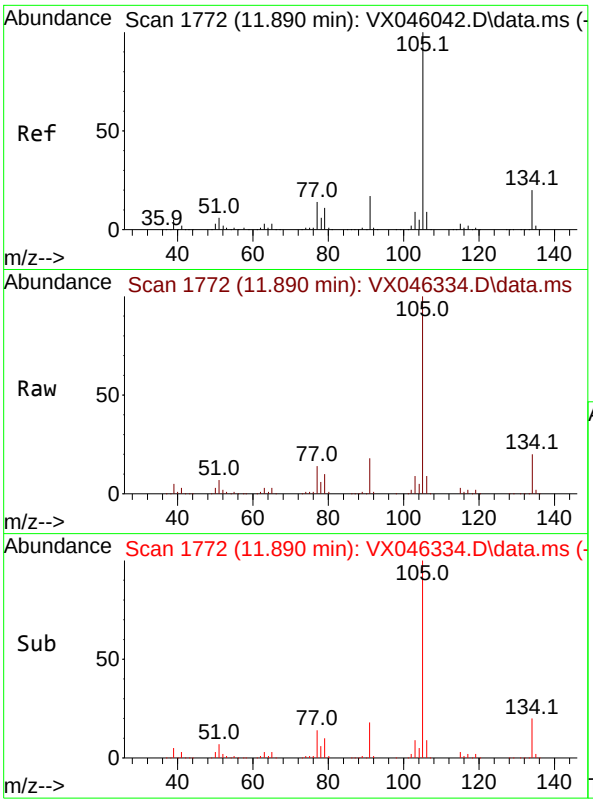


#84
1,2,4-Trimethylbenzene
Concen: 20.580 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion:105 Resp: 88916

Ion	Ratio	Lower	Upper
105	100		
120	42.6	21.2	63.6

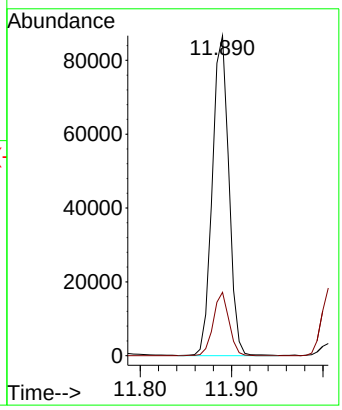




#85
sec-Butylbenzene
Concen: 20.640 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion:105 Resp: 10890

Ion	Ratio	Lower	Upper
105	100		
134	18.8	9.7	29.1



Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

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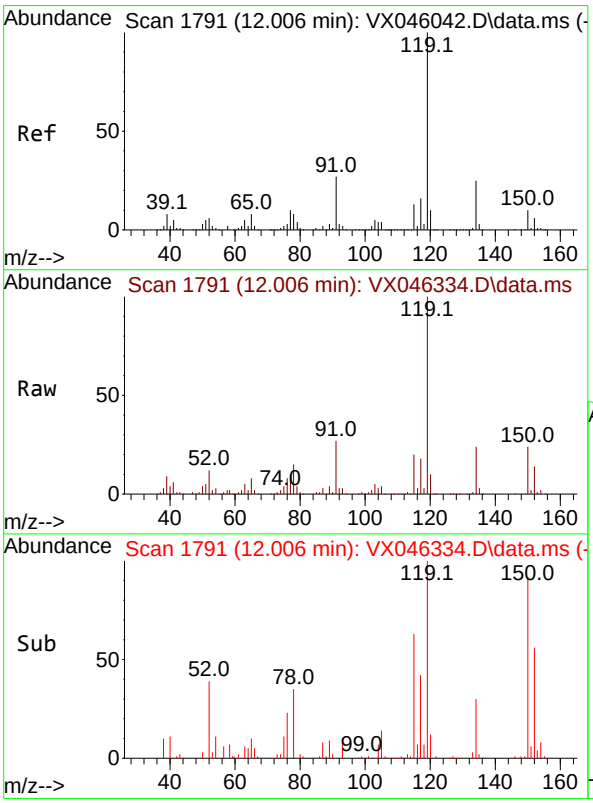
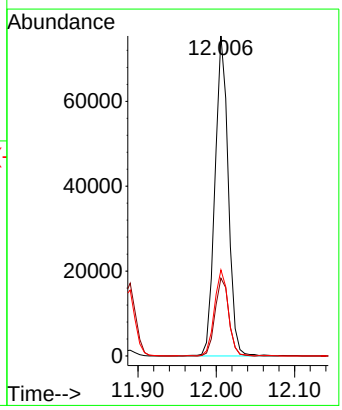
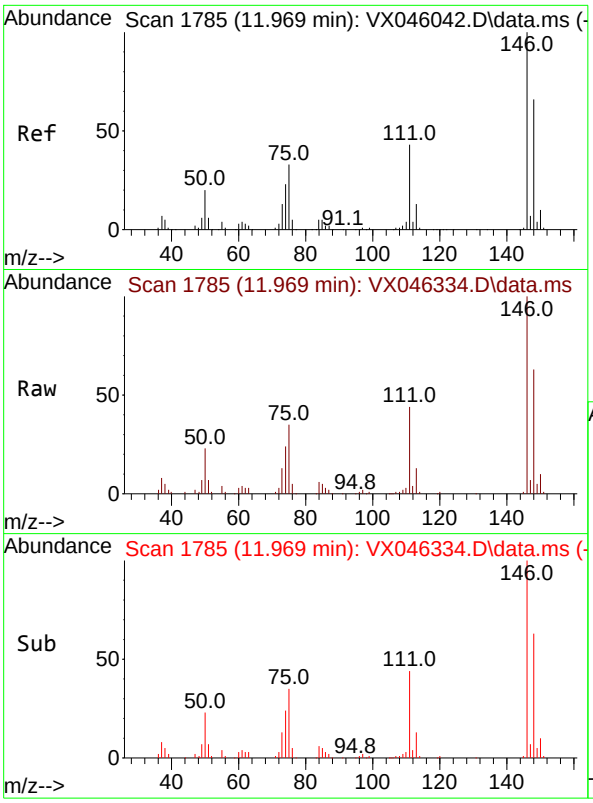


#86
p-Isopropyltoluene
Concen: 20.402 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion:119 Resp: 88860

Ion	Ratio	Lower	Upper
119	100		
134	25.1	12.5	37.5
91	27.9	13.8	41.4

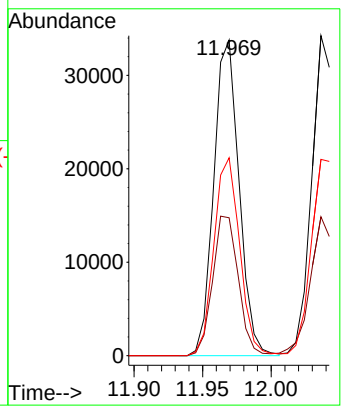




#87
1,3-Dichlorobenzene
Concen: 20.048 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion:146 Resp: 4337

Ion	Ratio	Lower	Upper
146	100		
111	45.0	22.1	66.3
148	64.0	32.1	96.5



Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

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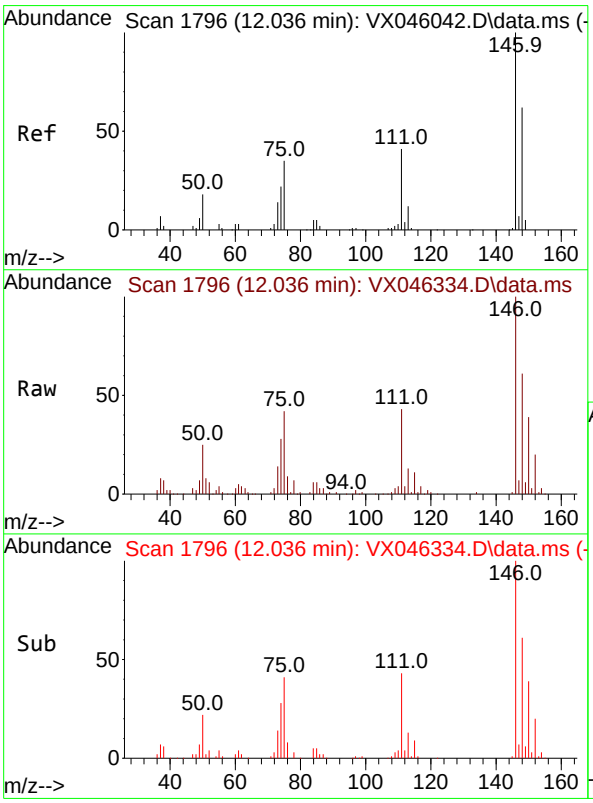
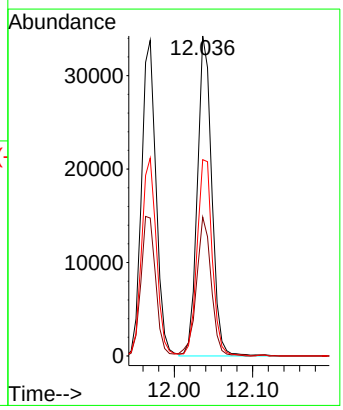
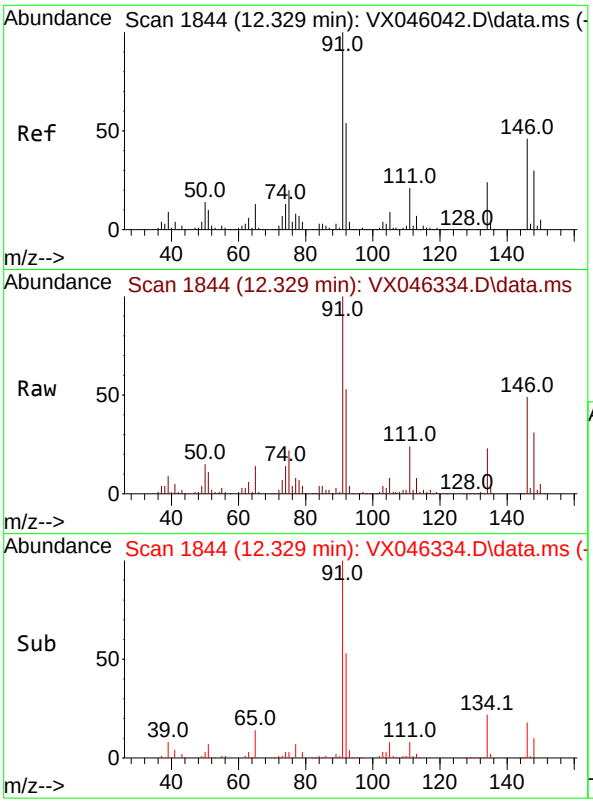


#88
1,4-Dichlorobenzene
Concen: 19.826 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion:146 Resp: 43812

Ion	Ratio	Lower	Upper
146	100		
111	44.6	21.3	63.9
148	64.6	31.9	95.5

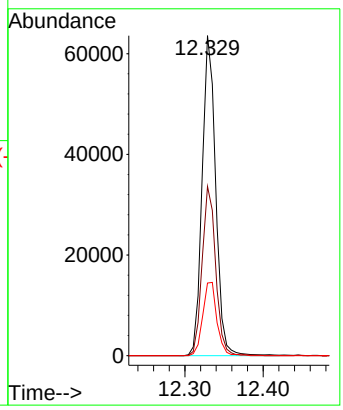




#89
n-Butylbenzene
Concen: 19.997 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 91 Resp: 7639

Ion	Ratio	Lower	Upper
91	100		
92	53.0	26.9	80.7
134	23.9	11.8	35.3



Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

Manual Integrations
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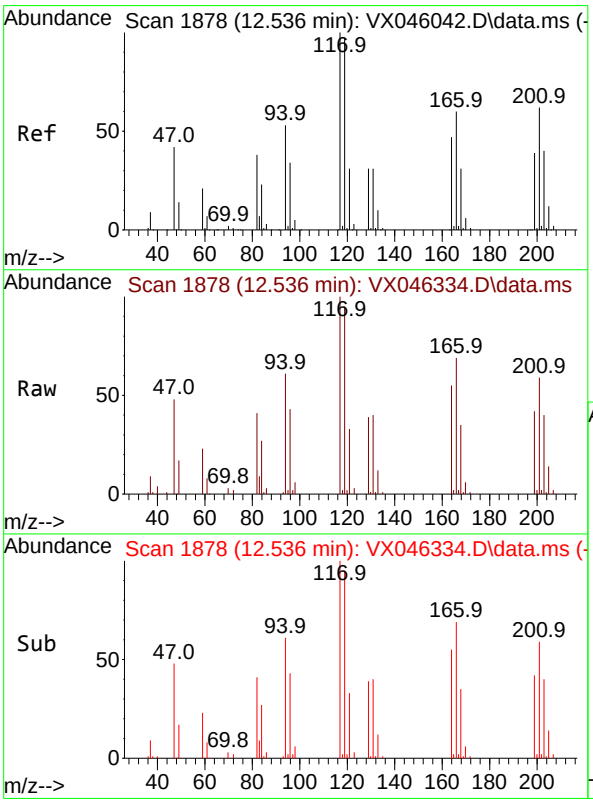
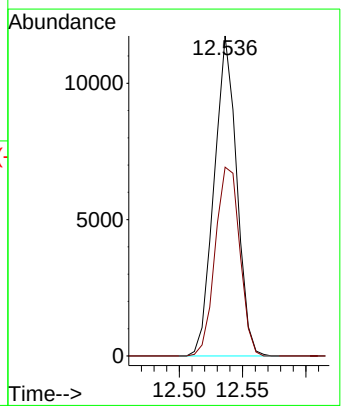
Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025

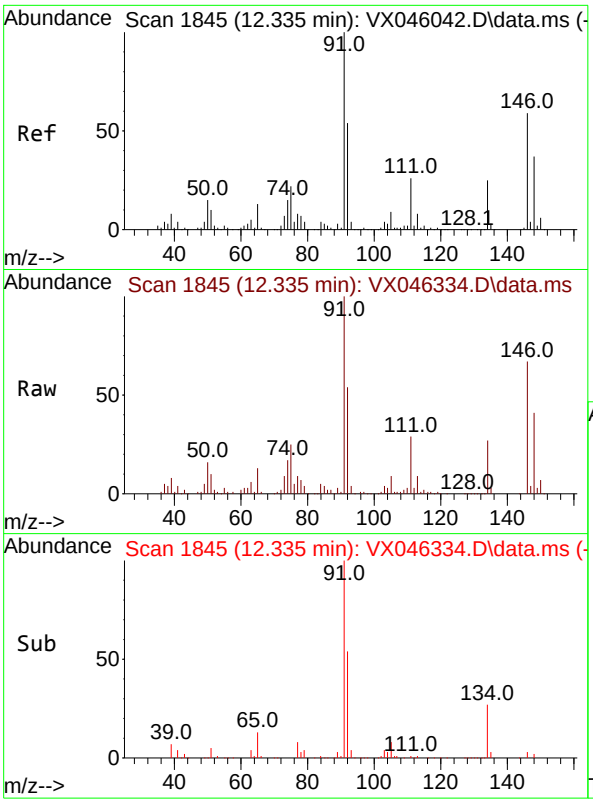


#90
Hexachloroethane
Concen: 18.984 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion:117 Resp: 14567

Ion	Ratio	Lower	Upper
117	100		
201	64.1	31.6	94.7

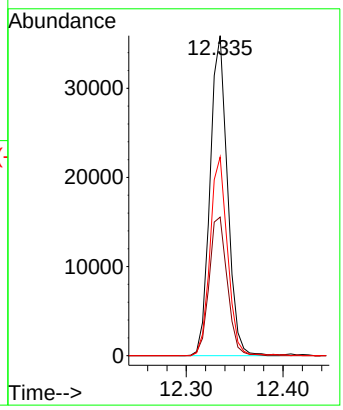




#91
1,2-Dichlorobenzene
Concen: 20.645 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion:146 Resp: 4482

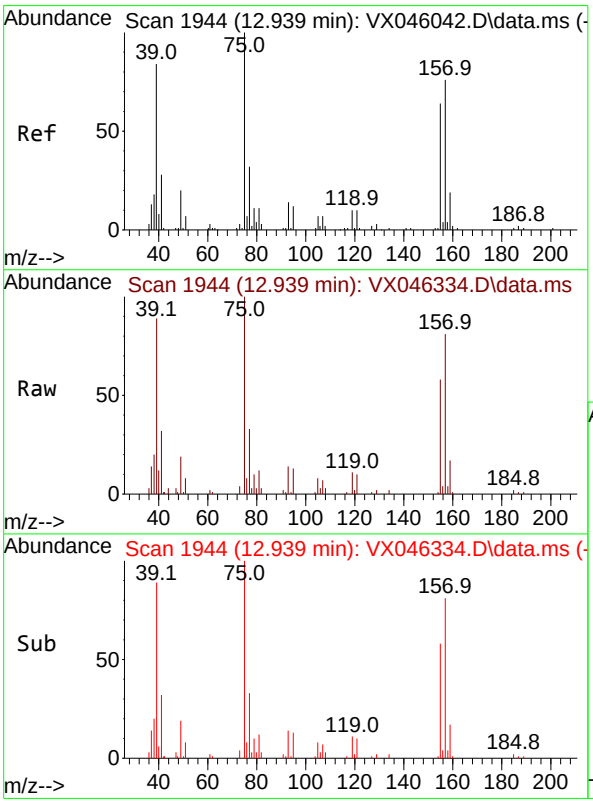
Ion	Ratio	Lower	Upper
146	100		
111	45.2	22.4	67.3
148	62.4	31.6	94.8



Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

Manual Integrations
APPROVED

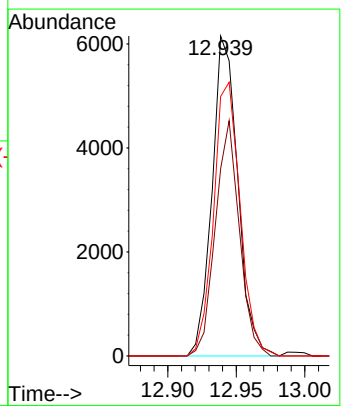
Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025

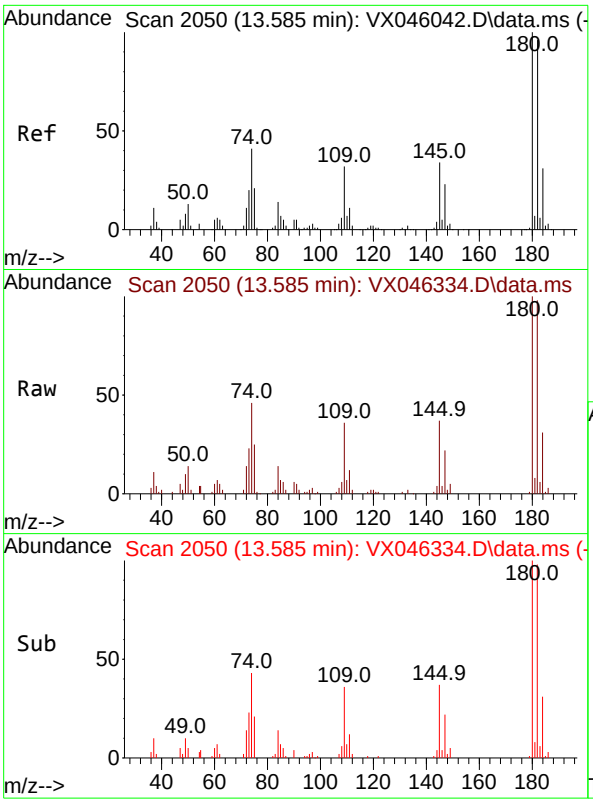


#92
1,2-Dibromo-3-Chloropropane
Concen: 20.242 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 75 Resp: 8025

Ion	Ratio	Lower	Upper
75	100		
155	68.6	34.9	104.8
157	88.4	43.8	131.4

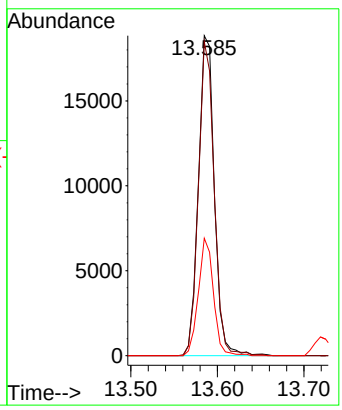




#93
1,2,4-Trichlorobenzene
Concen: 19.356 ug/l
RT: 13.585 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion:180 Resp: 2414

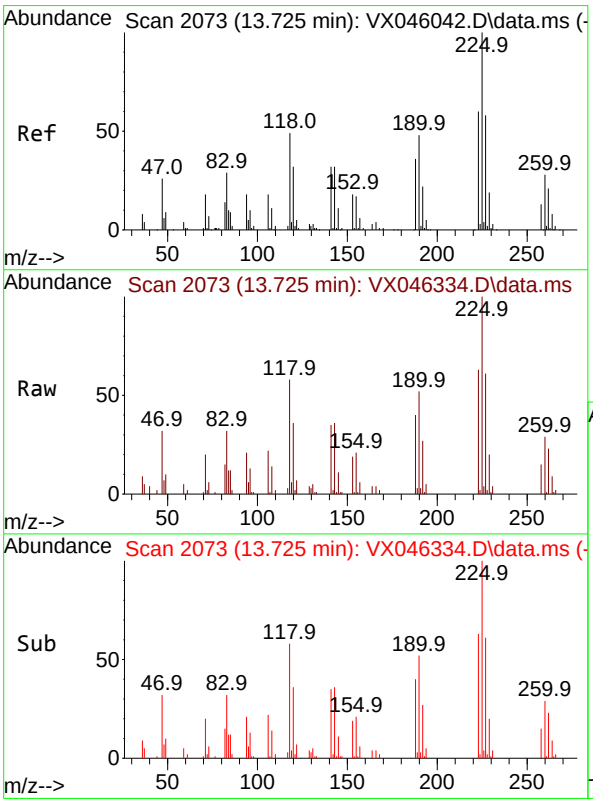
Ion	Ratio	Lower	Upper
180	100		
182	96.5	47.9	143.8
145	34.8	17.1	51.2



Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

Manual Integrations
APPROVED

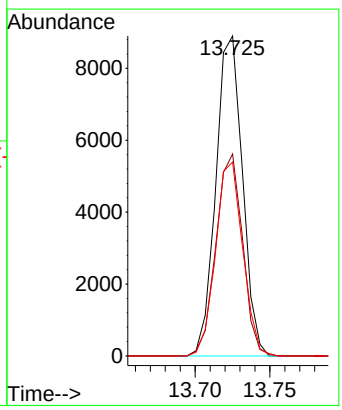
Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025

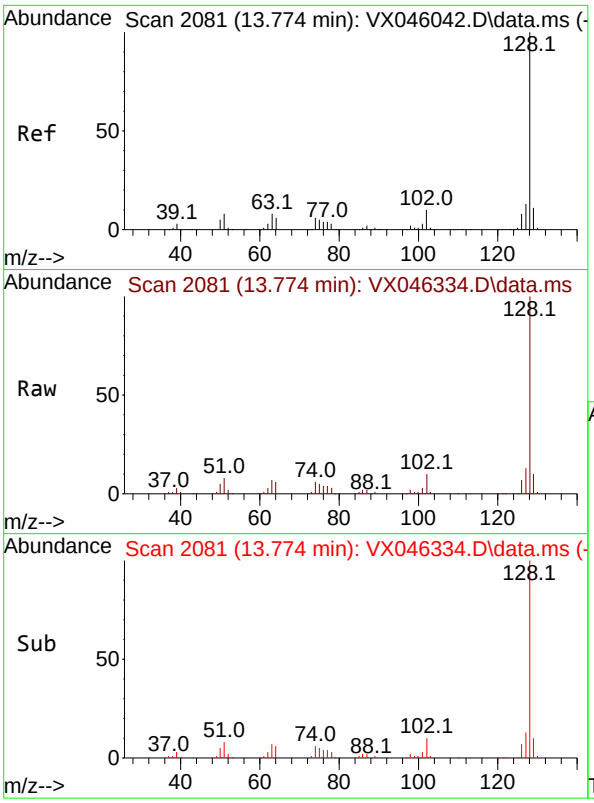


#94
Hexachlorobutadiene
Concen: 20.225 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion:225 Resp: 11016

Ion	Ratio	Lower	Upper
225	100		
223	63.1	30.8	92.4
227	61.8	30.9	92.7

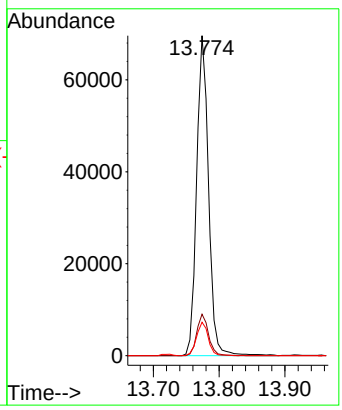




#95
Naphthalene
Concen: 19.079 ug/l
RT: 13.774 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion:128 Resp: 8726

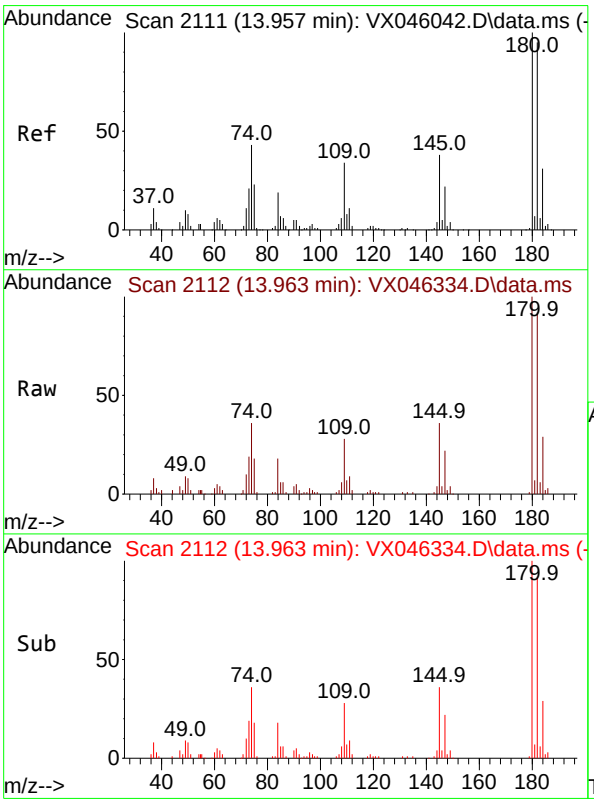
Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.4	15.6
129	10.3	8.6	13.0



Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

Manual Integrations
APPROVED

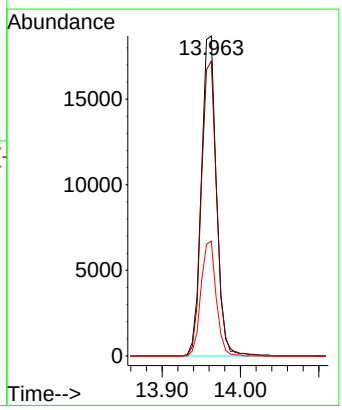
Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025



#96
1,2,3-Trichlorobenzene
Concen: 19.420 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. 0.006 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion:180 Resp: 24990

Ion	Ratio	Lower	Upper
180	100		
182	93.4	47.8	143.3
145	36.0	18.1	54.3



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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	VY0523SBS01	SDG No.:	Q2118
Lab Sample ID:	VY0523SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022409.D	1		05/23/25 16:28	VY052325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
74-87-3	Chloromethane	24.0		1.10	2.50	5.00	ug/Kg
75-01-4	Vinyl Chloride	25.2		0.79	2.50	5.00	ug/Kg
74-83-9	Bromomethane	34.5		1.10	4.00	5.00	ug/Kg
75-00-3	Chloroethane	27.1		1.30	2.50	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	22.9		1.20	4.00	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	22.8		1.10	2.50	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	22.1		1.00	2.50	5.00	ug/Kg
67-64-1	Acetone	140		4.70	20.0	25.0	ug/Kg
75-15-0	Carbon Disulfide	19.9		1.10	4.00	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	20.1		0.73	2.50	5.00	ug/Kg
75-09-2	Methylene Chloride	19.6		3.50	8.00	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	20.4		0.86	2.50	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	20.0		0.80	2.50	5.00	ug/Kg
78-93-3	2-Butanone	110		6.50	20.0	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	20.9		0.97	2.50	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	20.5		0.75	2.50	5.00	ug/Kg
67-66-3	Chloroform	20.5		0.84	4.00	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	20.7		0.93	2.50	5.00	ug/Kg
108-87-2	Methylcyclohexane	21.4		0.91	2.50	5.00	ug/Kg
71-43-2	Benzene	20.3		0.79	2.50	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	19.6		0.79	2.50	5.00	ug/Kg
79-01-6	Trichloroethene	20.8		0.81	2.50	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	20.0		0.91	2.50	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.0		0.78	2.50	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	92.8		3.60	12.5	25.0	ug/Kg
108-88-3	Toluene	20.2		0.78	2.50	5.00	ug/Kg
10061-02-6	t-1,3-Dichloropropene	19.6		0.65	2.50	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	19.7		0.62	2.50	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	20.2		0.92	2.50	5.00	ug/Kg
591-78-6	2-Hexanone	100		3.70	12.5	25.0	ug/Kg

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	VY0523SBS01	SDG No.:	Q2118
Lab Sample ID:	VY0523SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022409.D	1		05/23/25 16:28	VY052325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
124-48-1	Dibromochloromethane	20.4		0.87	2.50	5.00	ug/Kg
127-18-4	Tetrachloroethene	21.1		1.10	2.50	5.00	ug/Kg
108-90-7	Chlorobenzene	20.5		0.91	2.50	5.00	ug/Kg
100-41-4	Ethyl Benzene	20.3		0.67	2.50	5.00	ug/Kg
179601-23-1	m/p-Xylenes	40.6		1.20	5.00	10.0	ug/Kg
95-47-6	o-Xylene	19.9		0.82	2.50	5.00	ug/Kg
100-42-5	Styrene	19.8		0.71	2.50	5.00	ug/Kg
75-25-2	Bromoform	20.0		0.86	2.50	5.00	ug/Kg
98-82-8	Isopropylbenzene	21.0		0.78	2.50	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	20.9		1.20	2.50	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	20.2		1.70	2.50	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	20.5		1.60	2.50	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	20.5		1.50	2.50	5.00	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	50.7		71 - 136		101%	SPK: 50
1868-53-7	Dibromofluoromethane	53.6		78 - 119		107%	SPK: 50
2037-26-5	Toluene-d8	53.5		85 - 116		107%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.8		79 - 119		98%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	220000	7.713				
540-36-3	1,4-Difluorobenzene	365000	8.621				
3114-55-4	Chlorobenzene-d5	306000	11.42				
3855-82-1	1,4-Dichlorobenzene-d4	142000	13.352				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022409.D
Acq On : 23 May 2025 16:28
Operator : SY/MD
Sample : VY0523SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 23 23:44:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 05/27/2025
Supervised By :Semsettin Yesilyurt 05/27/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	220484	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.621	114	365163	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	306453	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.352	152	141917	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	122214	50.718	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 101.440%			
35) Dibromofluoromethane	7.646	113	116726	53.556	ug/l	0.01
Spiked Amount 50.000	Range 54 - 147		Recovery = 107.120%			
50) Toluene-d8	10.115	98	477724	53.519	ug/l	0.01
Spiked Amount 50.000	Range 58 - 134		Recovery = 107.040%			
62) 4-Bromofluorobenzene	12.407	95	137951	48.757	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 97.520%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	47450	20.625	ug/l	98
3) Chloromethane	2.068	50	116162	24.002	ug/l	97
4) Vinyl Chloride	2.208	62	136097	25.171	ug/l	96
5) Bromomethane	2.598	94	152048	34.544	ug/l	99
6) Chloroethane	2.738	64	91246	27.126	ug/l	98
7) Trichlorofluoromethane	3.055	101	125355	22.899	ug/l	98
8) Diethyl Ether	3.458	74	26297	20.016	ug/l	93
9) 1,1,2-Trichlorotrifluo...	3.817	101	54194	22.803	ug/l	98
10) Methyl Iodide	4.006	142	50705	18.434	ug/l	99
11) Tert butyl alcohol	4.884	59	18052	98.102	ug/l #	100
12) 1,1-Dichloroethene	3.799	96	52119	22.099	ug/l	91
13) Acrolein	3.659	56	14247	52.961	ug/l	97
14) Allyl chloride	4.391	41	72531	17.539	ug/l	92
15) Acrylonitrile	5.073	53	53818	99.417	ug/l	99
16) Acetone	3.885	43	64882	143.598	ug/l	96
17) Carbon Disulfide	4.116	76	153044	19.900	ug/l	96
18) Methyl Acetate	4.403	43	22419	15.737	ug/l	93
19) Methyl tert-butyl Ether	5.128	73	130694	20.098	ug/l	95
20) Methylene Chloride	4.622	84	57155	19.576	ug/l	97
21) trans-1,2-Dichloroethene	5.122	96	52976	20.350	ug/l	96
22) Diisopropyl ether	6.024	45	157311	18.014	ug/l	95
23) Vinyl Acetate	5.969	43	490218	92.917	ug/l	98
24) 1,1-Dichloroethane	5.921	63	97335	19.950	ug/l	99
25) 2-Butanone	6.902	43	83136	110.000	ug/l	99
26) 2,2-Dichloropropane	6.896	77	89975	20.734	ug/l	99
27) cis-1,2-Dichloroethene	6.902	96	61445	20.454	ug/l	97
28) Bromochloromethane	7.250	49	41072	19.736	ug/l	96
29) Tetrahydrofuran	7.268	42	46580	95.797	ug/l	93
30) Chloroform	7.427	83	95738	20.458	ug/l	98
31) Cyclohexane	7.713	56	98151	20.135	ug/l	97
32) 1,1,1-Trichloroethane	7.628	97	89072	20.746	ug/l	99
36) 1,1-Dichloropropene	7.847	75	74413	20.729	ug/l	98
37) Ethyl Acetate	6.994	43	32944	19.073	ug/l	96
38) Carbon Tetrachloride	7.829	117	77588	20.880	ug/l	95
39) Methylcyclohexane	9.115	83	102984	21.353	ug/l	96
40) Benzene	8.091	78	215939	20.291	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022409.D
Acq On : 23 May 2025 16:28
Operator : SY/MD
Sample : VY0523SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 23 23:44:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 05/27/2025
Supervised By :Semsettin Yesilyurt 05/27/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.231	41	20095m	17.538	ug/l		
42) 1,2-Dichloroethane	8.164	62	56548	19.649	ug/l		97
43) Isopropyl Acetate	8.207	43	70370	18.681	ug/l		98
44) Trichloroethene	8.871	130	55056	20.806	ug/l		96
45) 1,2-Dichloropropane	9.146	63	51291	19.991	ug/l		97
46) Dibromomethane	9.237	93	28589	20.659	ug/l		99
47) Bromodichloromethane	9.426	83	71724	19.978	ug/l		100
48) Methyl methacrylate	9.231	41	30712	17.434	ug/l		88
49) 1,4-Dioxane	9.237	88	6085	389.226	ug/l		93
51) 4-Methyl-2-Pentanone	10.005	43	171509	92.790	ug/l		96
52) Toluene	10.176	92	136262	20.220	ug/l		100
53) t-1,3-Dichloropropene	10.402	75	68682	19.603	ug/l		99
54) cis-1,3-Dichloropropene	9.865	75	79085	19.702	ug/l		94
55) 1,1,2-Trichloroethane	10.578	97	35739	20.168	ug/l		96
56) Ethyl methacrylate	10.444	69	54901	19.889	ug/l		92
57) 1,3-Dichloropropane	10.725	76	64791	20.578	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.719	63	106348	85.834	ug/l		97
59) 2-Hexanone	10.767	43	127089	102.550	ug/l		96
60) Dibromochloromethane	10.920	129	46918	20.398	ug/l		99
61) 1,2-Dibromoethane	11.023	107	34146	20.674	ug/l		99
64) Tetrachloroethene	10.652	164	59668	21.065	ug/l		99
65) Chlorobenzene	11.450	112	142059	20.547	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.517	131	47723	20.078	ug/l		99
67) Ethyl Benzene	11.523	91	262665	20.286	ug/l		99
68) m/p-Xylenes	11.633	106	197872	40.555	ug/l		96
69) o-Xylene	11.956	106	91898	19.908	ug/l		98
70) Styrene	11.975	104	153910	19.765	ug/l		97
71) Bromoform	12.139	173	25596	19.951	ug/l	#	97
73) Isopropylbenzene	12.261	105	247301	21.034	ug/l		100
74) N-amyl acetate	12.072	43	61277	18.223	ug/l		96
75) 1,1,2,2-Tetrachloroethane	12.511	83	37759	20.883	ug/l		97
76) 1,2,3-Trichloropropane	12.560	75	29327m	20.398	ug/l		
77) Bromobenzene	12.535	156	52367	20.854	ug/l		95
78) n-propylbenzene	12.602	91	296181	20.885	ug/l		99
79) 2-Chlorotoluene	12.682	91	155703	19.979	ug/l		97
80) 1,3,5-Trimethylbenzene	12.743	105	191546	20.182	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.310	75	13059	18.400	ug/l		98
82) 4-Chlorotoluene	12.785	91	157322	19.626	ug/l		97
83) tert-Butylbenzene	13.005	119	175804	20.841	ug/l		98
84) 1,2,4-Trimethylbenzene	13.047	105	188374	19.994	ug/l		98
85) sec-Butylbenzene	13.182	105	266407	21.275	ug/l		100
86) p-Isopropyltoluene	13.297	119	213699	20.291	ug/l		98
87) 1,3-Dichlorobenzene	13.291	146	103478	20.186	ug/l		98
88) 1,4-Dichlorobenzene	13.371	146	100997	20.483	ug/l		99
89) n-Butylbenzene	13.621	91	210175	21.095	ug/l		98
90) Hexachloroethane	13.883	117	43322	20.378	ug/l		98
91) 1,2-Dichlorobenzene	13.663	146	88356	20.520	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	14.279	75	5917	20.294	ug/l		96
93) 1,2,4-Trichlorobenzene	14.925	180	47978	19.290	ug/l		99
94) Hexachlorobutadiene	15.029	225	25900	18.673	ug/l		94
95) Naphthalene	15.151	128	86870	18.405	ug/l		98
96) 1,2,3-Trichlorobenzene	15.334	180	40075	18.993	ug/l		98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022409.D
Acq On : 23 May 2025 16:28
Operator : SY/MD
Sample : VY0523SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 23 23:44:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 05/27/2025
Supervised By :Semsettin Yesilyurt 05/27/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022409.D
Acq On : 23 May 2025 16:28
Operator : SY/MD
Sample : VY0523SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 23 23:44:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Instrument :
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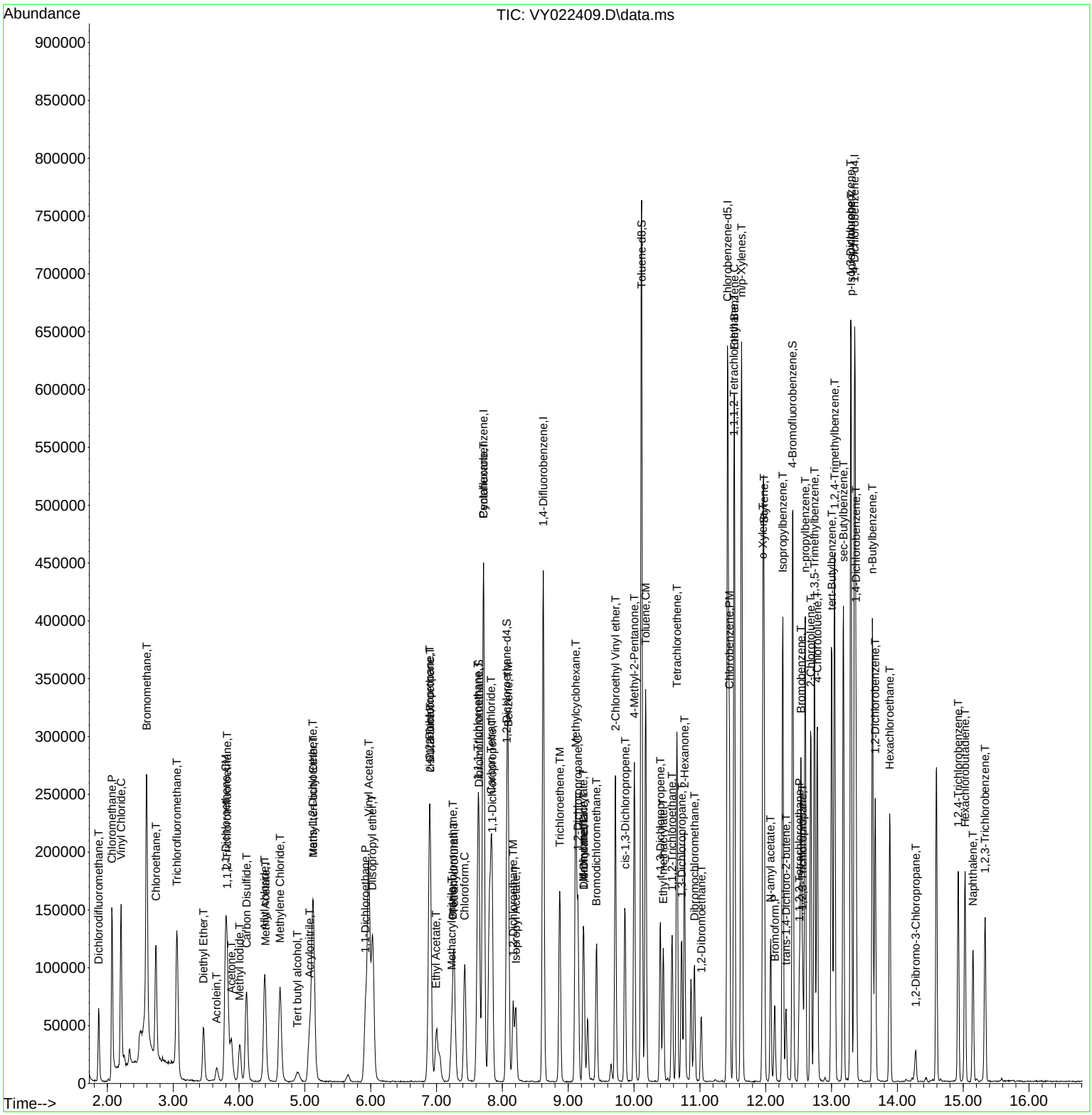
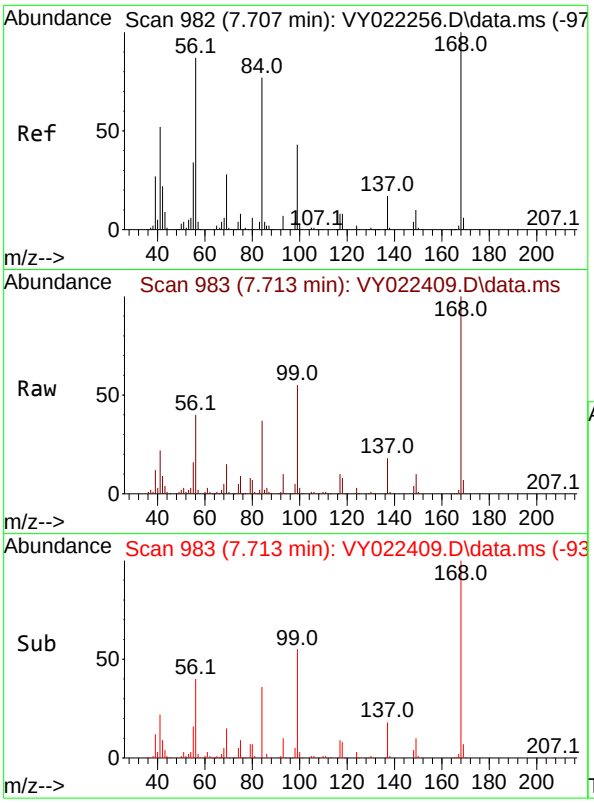
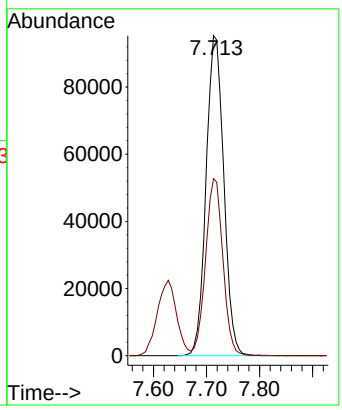




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion:168 Resp: 22048

Ion	Ratio	Lower	Upper
168	100		
99	55.3	44.2	66.4



Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

Manual Integrations
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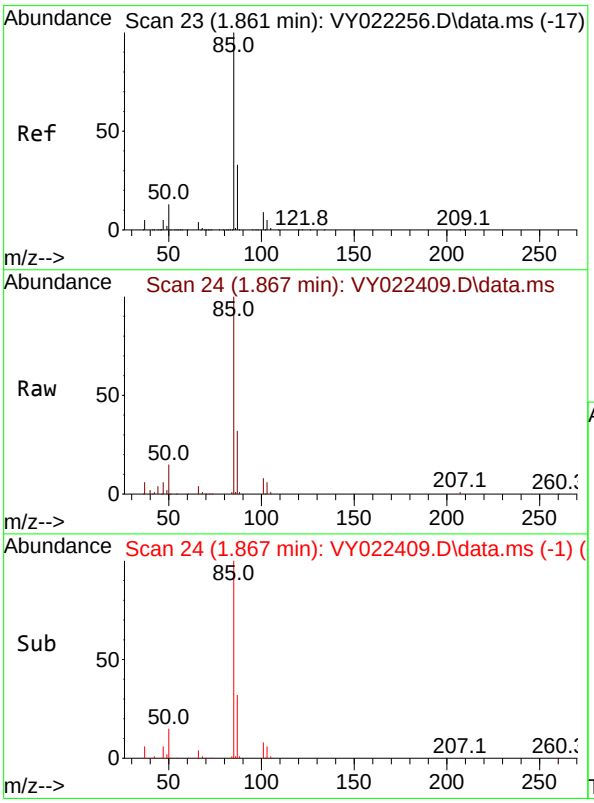
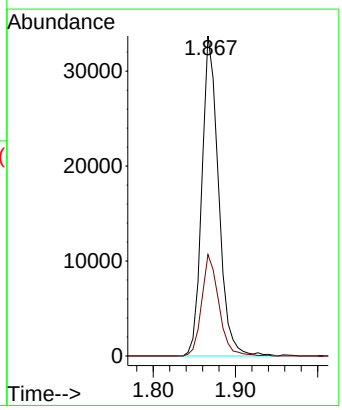
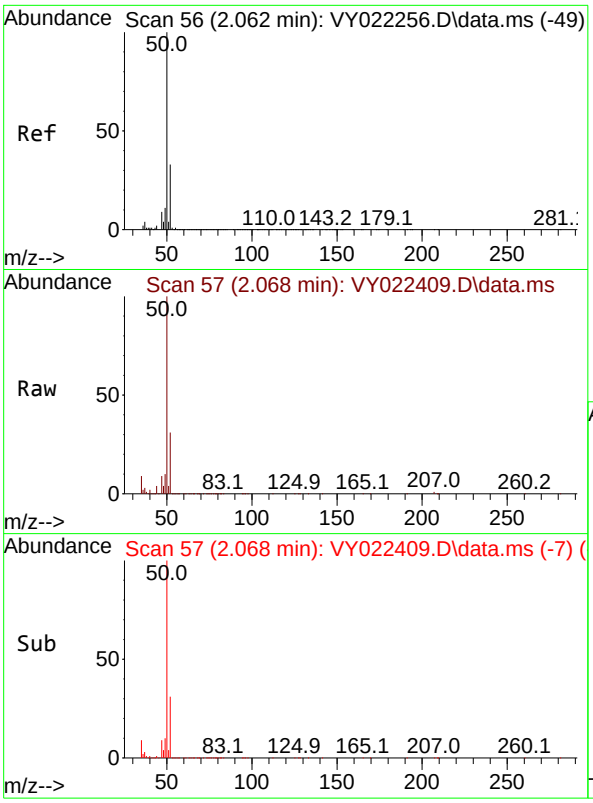


#2
Dichlorodifluoromethane
Concen: 20.625 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 85 Resp: 47450

Ion	Ratio	Lower	Upper
85	100		
87	31.7	16.5	49.5

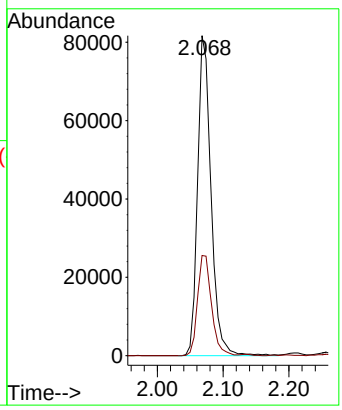




#3
Chloromethane
Concen: 24.002 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 50 Resp: 11616

Ion	Ratio	Lower	Upper
50	100		
52	31.3	26.5	39.7



Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

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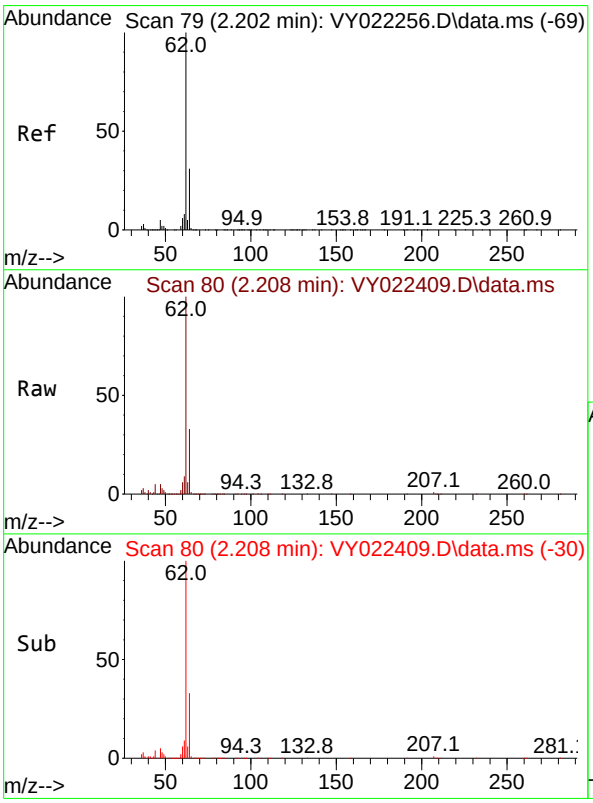
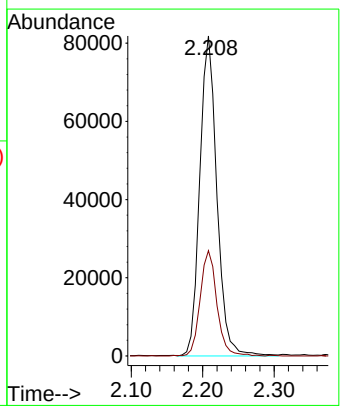
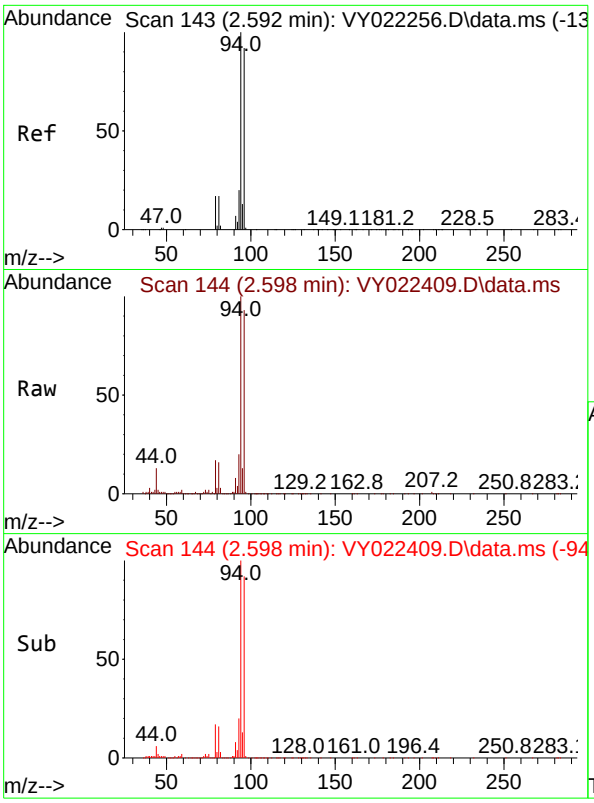


#4
Vinyl Chloride
Concen: 25.171 ug/l
RT: 2.208 min Scan# 80
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 62 Resp: 136097

Ion	Ratio	Lower	Upper
62	100		
64	32.8	24.5	36.7

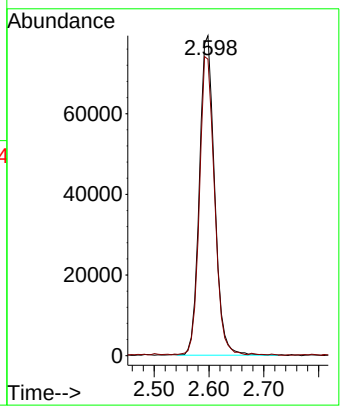




#5
Bromomethane
Concen: 34.544 ug/l
RT: 2.598 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 94 Resp: 15204

Ion	Ratio	Lower	Upper
94	100		
96	92.5	73.4	110.0



Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

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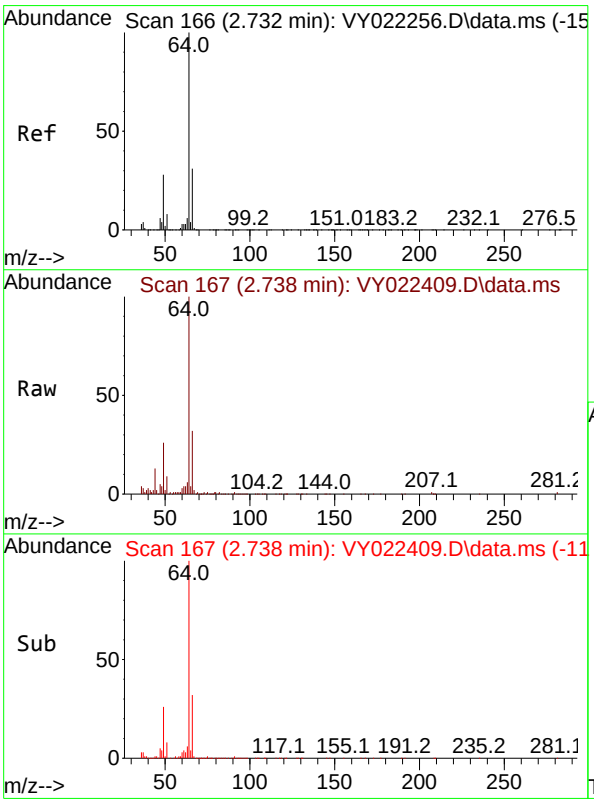
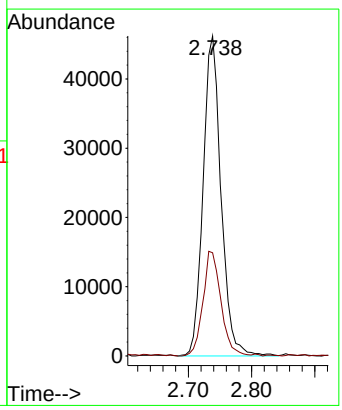
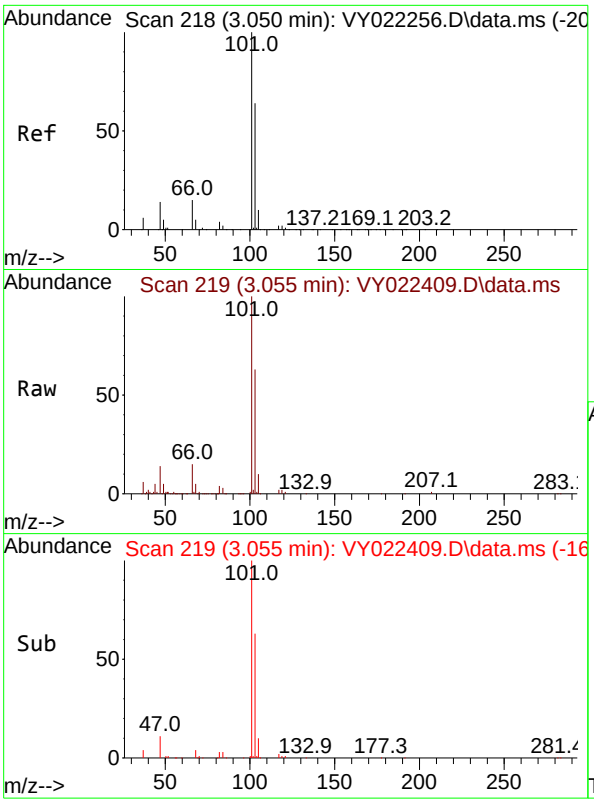


#6
Chloroethane
Concen: 27.126 ug/l
RT: 2.738 min Scan# 167
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 64 Resp: 91246

Ion	Ratio	Lower	Upper
64	100		
66	32.2	24.8	37.2

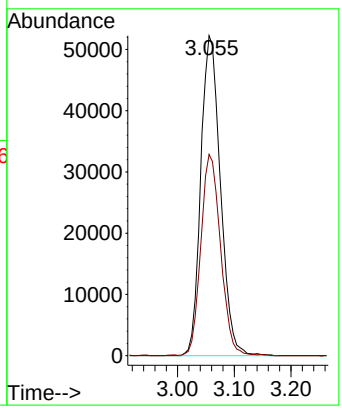




#7
Trichlorofluoromethane
Concen: 22.899 ug/l
RT: 3.055 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion:101 Resp: 12535

Ion	Ratio	Lower	Upper
101	100		
103	62.9	51.7	77.5



Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

Manual Integrations
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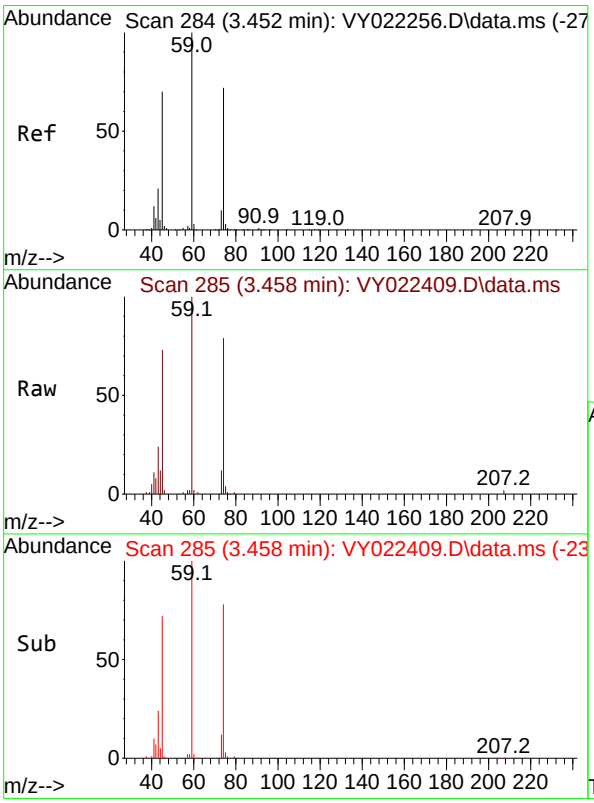
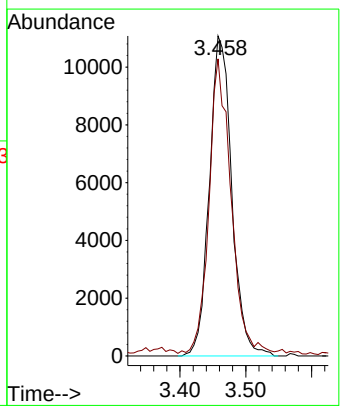
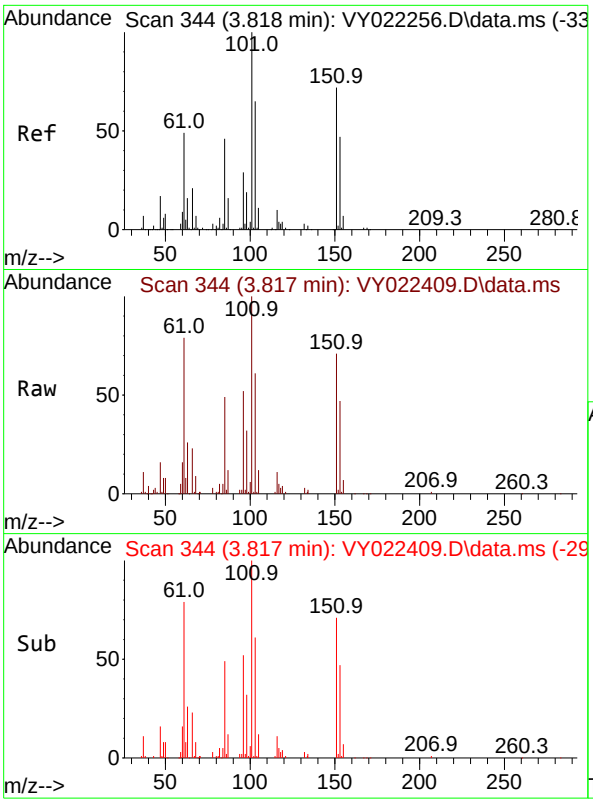


#8
Diethyl Ether
Concen: 20.016 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 74 Resp: 26297

Ion	Ratio	Lower	Upper
74	100		
45	90.0	48.6	145.8





#9
1,1,2-Trichlorotrifluoroethane
Concen: 22.803 ug/l
RT: 3.817 min Scan# 34
Delta R.T. -0.000 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion:101 Resp: 5419

Ion	Ratio	Lower	Upper
101	100		
85	47.7	38.6	58.0
151	71.8	59.7	89.5

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

Manual Integrations
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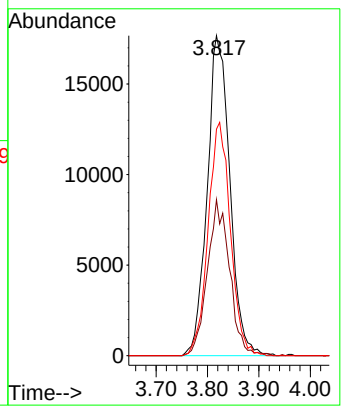
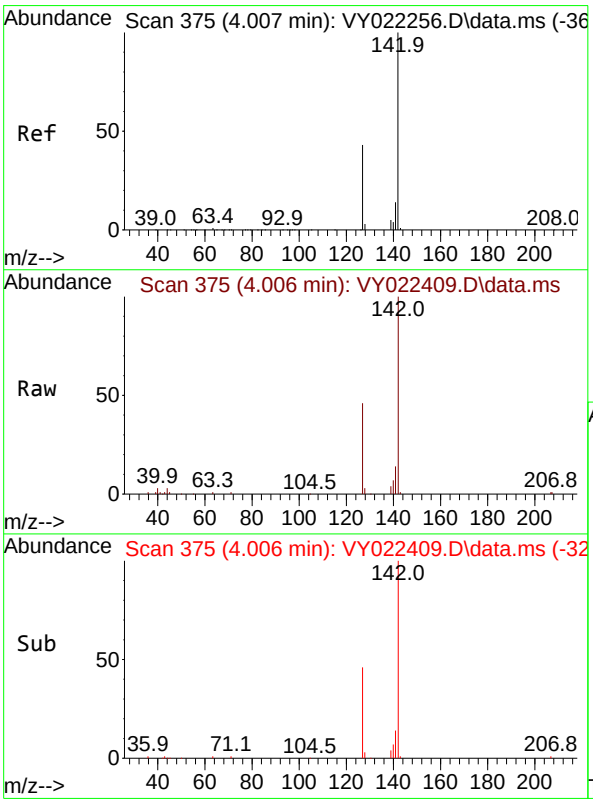
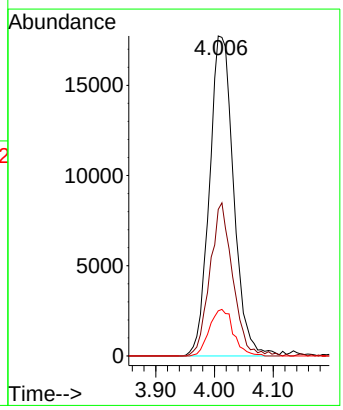


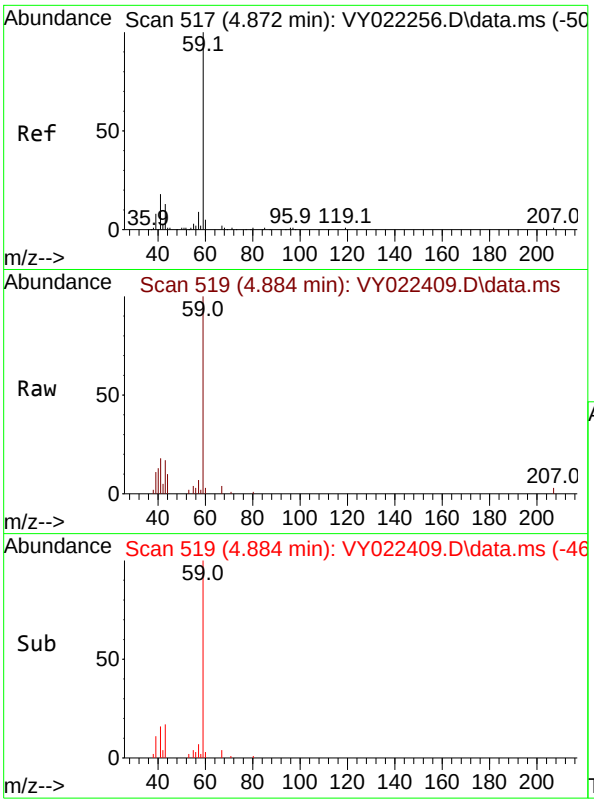


#10
Methyl Iodide
Concen: 18.434 ug/l
RT: 4.006 min Scan# 375
Delta R.T. -0.000 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion:142 Resp: 50705

Ion	Ratio	Lower	Upper
142	100		
127	45.3	35.7	53.5
141	14.5	11.1	16.7

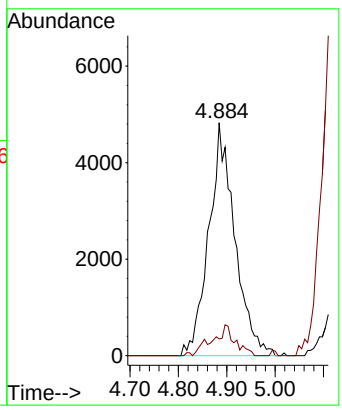




#11
Tert butyl alcohol
Concen: 98.102 ug/l
RT: 4.884 min Scan# 5
Delta R.T. 0.012 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 59 Resp: 1805

Ion	Ratio	Lower	Upper
59	100		
57	8.6	0.0	0.0



Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

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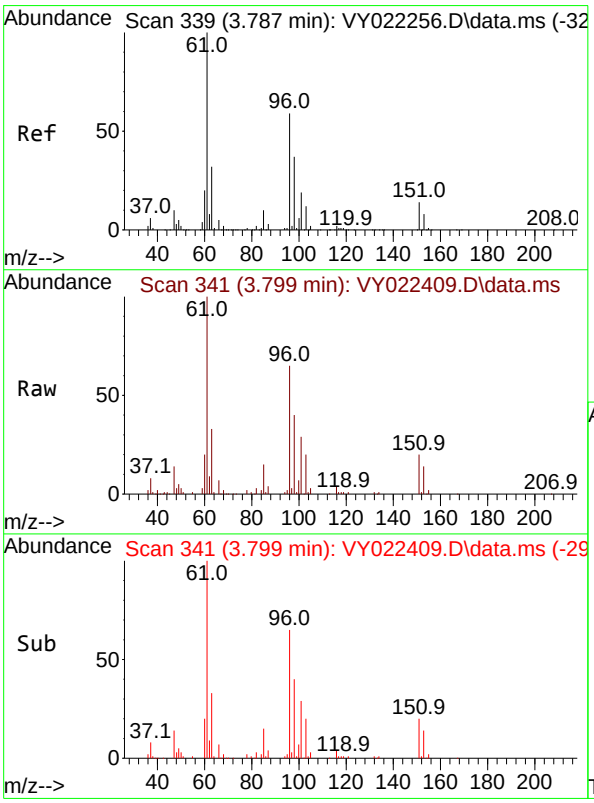
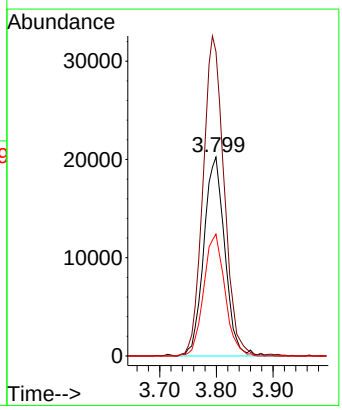
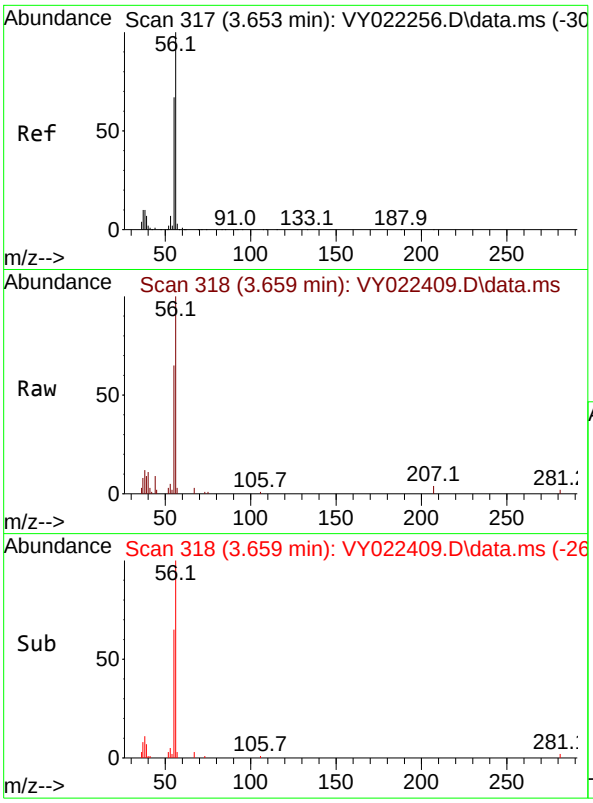


#12
1,1-Dichloroethene
Concen: 22.099 ug/l
RT: 3.799 min Scan# 341
Delta R.T. 0.012 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 96 Resp: 52119

Ion	Ratio	Lower	Upper
96	100		
61	153.0	134.9	202.3
98	61.3	49.9	74.9

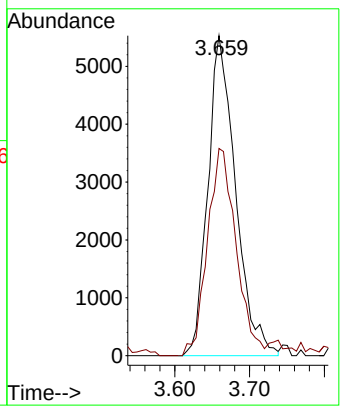




#13
Acrolein
Concen: 52.961 ug/l
RT: 3.659 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 56 Resp: 1424

Ion	Ratio	Lower	Upper
56	100		
55	66.8	55.6	83.4



Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

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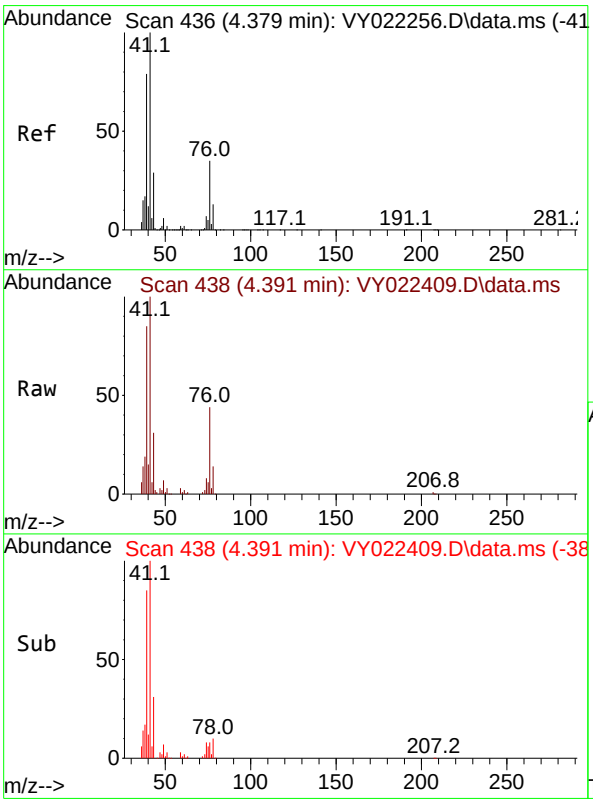
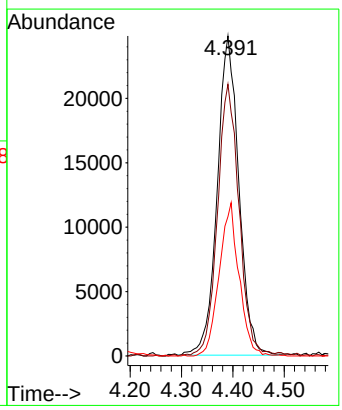
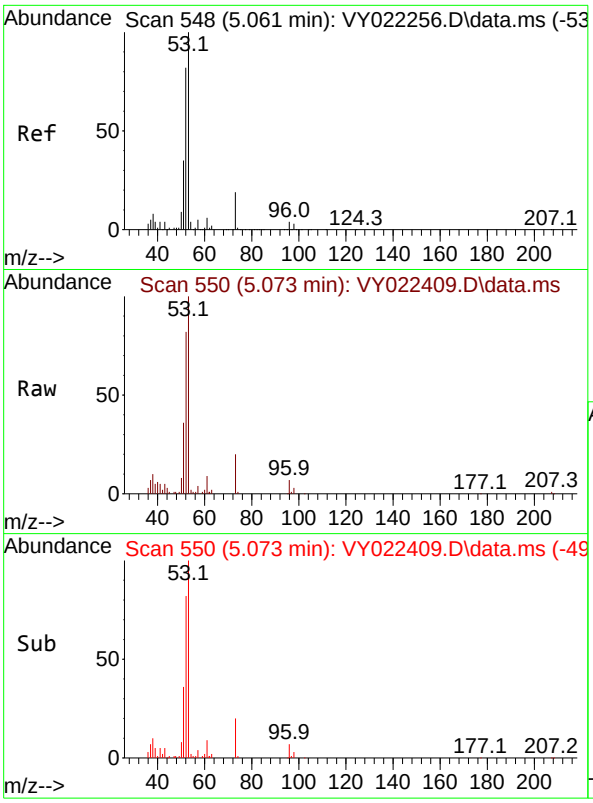


#14
Allyl chloride
Concen: 17.539 ug/l
RT: 4.391 min Scan# 438
Delta R.T. 0.012 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 41 Resp: 72531

Ion	Ratio	Lower	Upper
41	100		
39	84.8	63.4	95.0
76	44.2	29.5	44.3

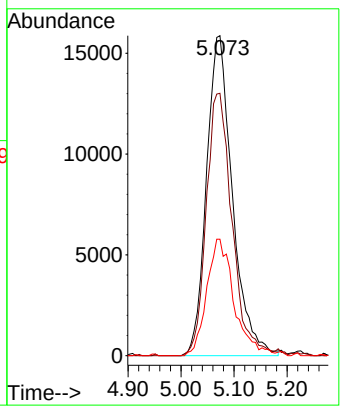




#15
Acrylonitrile
Concen: 99.417 ug/l
RT: 5.073 min Scan# 5
Delta R.T. 0.012 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 53 Resp: 5381

Ion	Ratio	Lower	Upper
53	100		
52	81.6	66.1	99.1
51	38.5	30.0	45.0



Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

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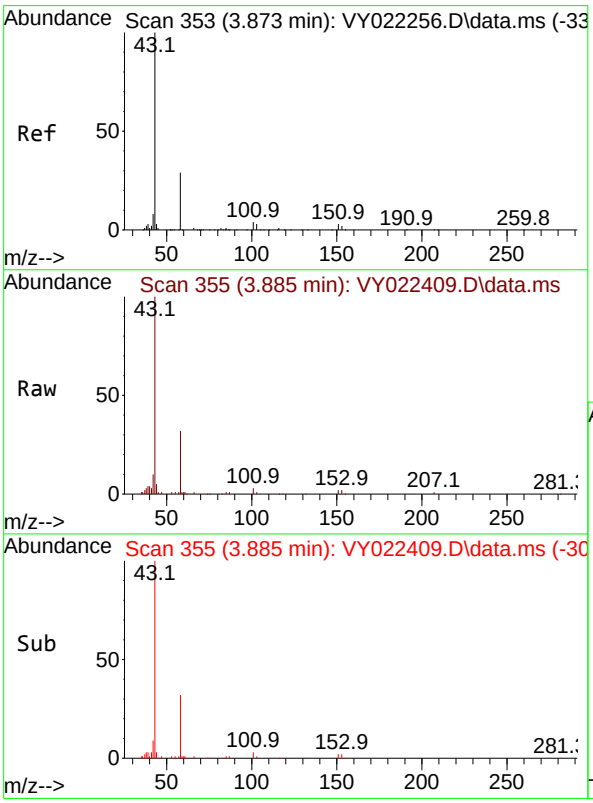
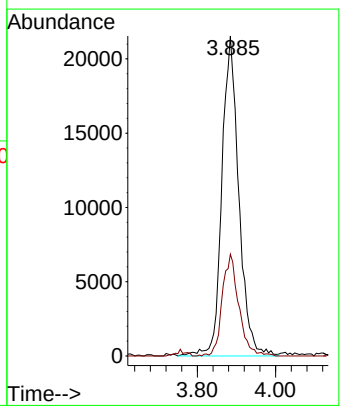
Supervised By :Semsettin Yesilyurt 05/27/2025

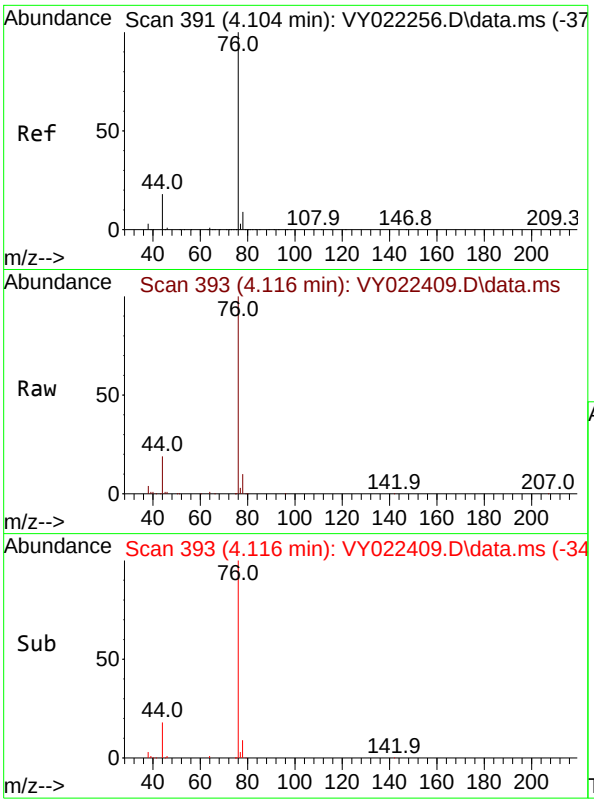


#16
Acetone
Concen: 143.598 ug/l
RT: 3.885 min Scan# 355
Delta R.T. 0.012 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 43 Resp: 64882

Ion	Ratio	Lower	Upper
43	100		
58	31.8	23.6	35.4

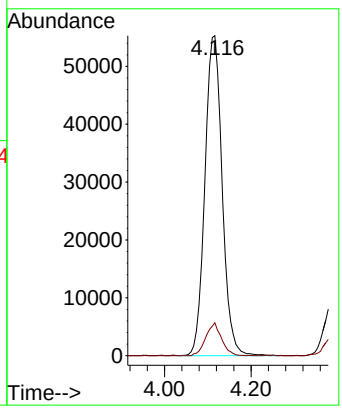




#17
Carbon Disulfide
Concen: 19.900 ug/l
RT: 4.116 min Scan# 3
Delta R.T. 0.012 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 76 Resp: 15304

Ion	Ratio	Lower	Upper
76	100		
78	10.3	7.2	10.8



Instrument :
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ClientSampleId :
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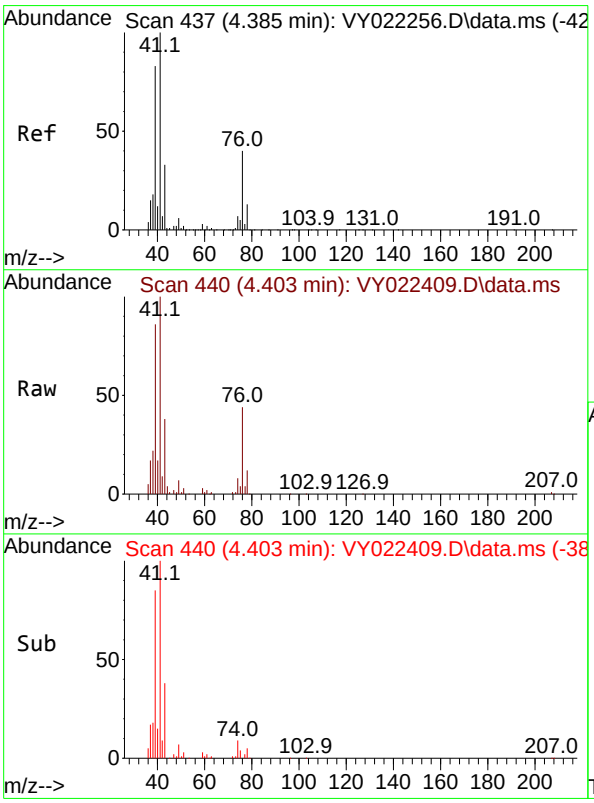
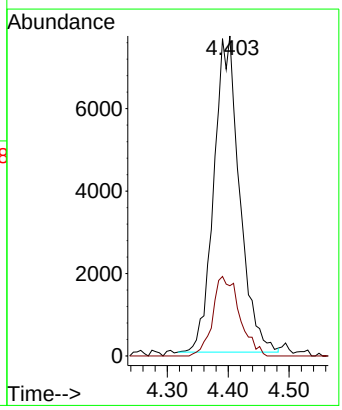
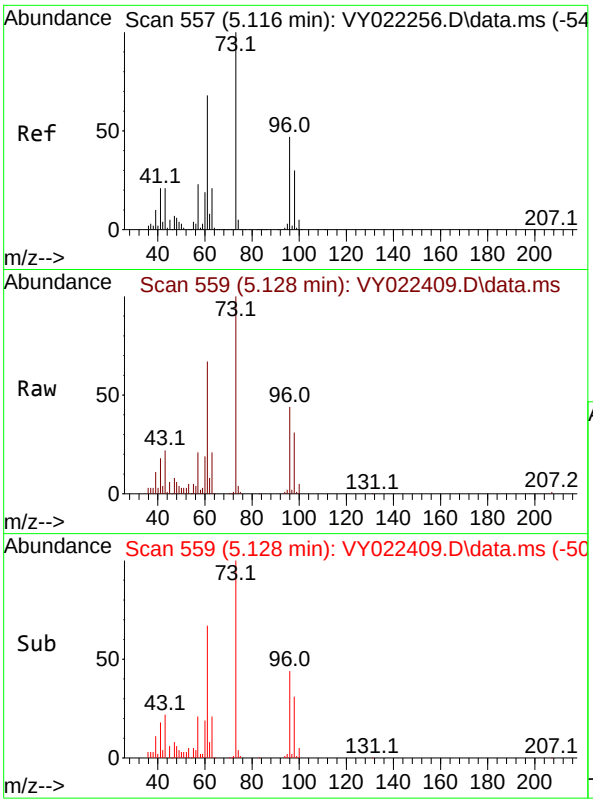


#18
Methyl Acetate
Concen: 15.737 ug/l
RT: 4.403 min Scan# 440
Delta R.T. 0.018 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 43 Resp: 22419

Ion	Ratio	Lower	Upper
43	100		
74	26.3	18.2	27.4

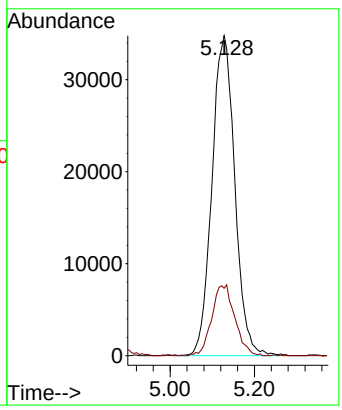




#19
Methyl tert-butyl Ether
Concen: 20.098 ug/l
RT: 5.128 min Scan# 5
Delta R.T. 0.012 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 73 Resp: 13069

Ion	Ratio	Lower	Upper
73	100		
57	21.0	18.6	28.0



Instrument :
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ClientSampleId :
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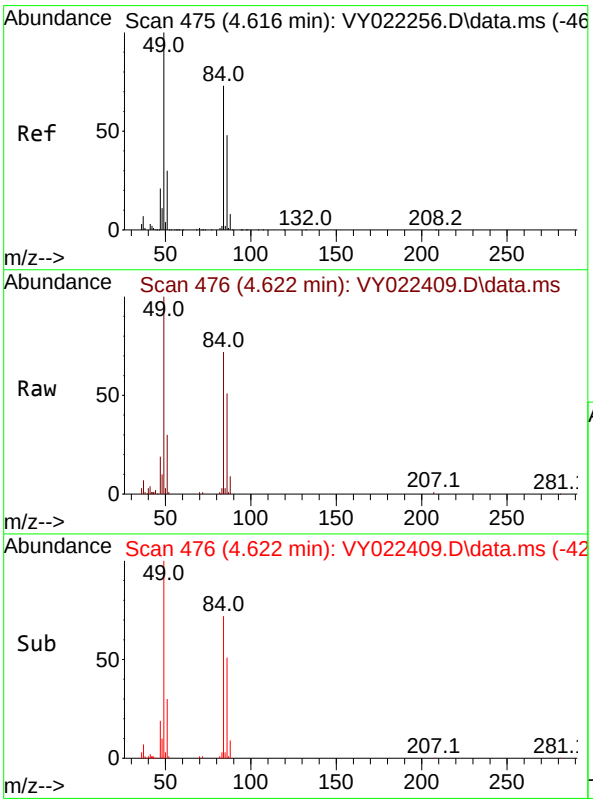
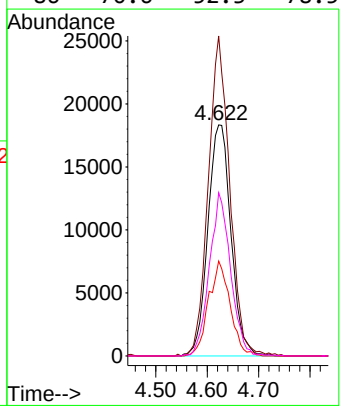
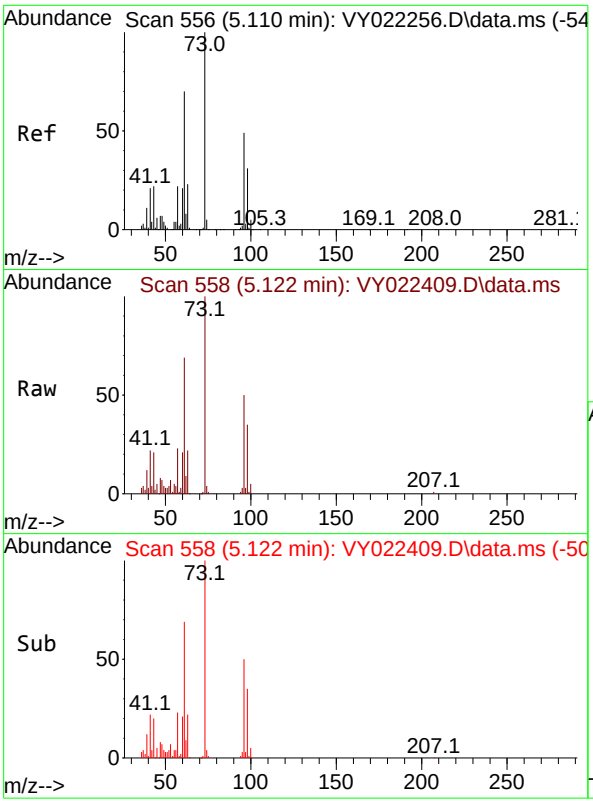


#20
Methylene Chloride
Concen: 19.576 ug/l
RT: 4.622 min Scan# 476
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 84 Resp: 57155

Ion	Ratio	Lower	Upper
84	100		
49	138.2	109.6	164.4
51	41.0	32.4	48.6
86	70.6	52.3	78.5

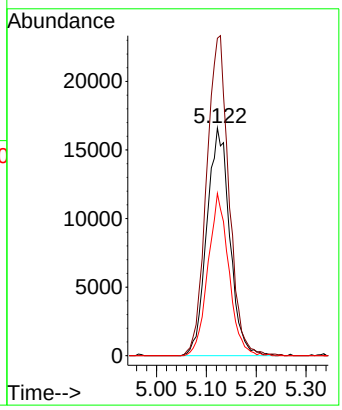




#21
trans-1,2-Dichloroethene
Concen: 20.350 ug/l
RT: 5.122 min Scan# 5
Delta R.T. 0.012 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 96 Resp: 5297

Ion	Ratio	Lower	Upper
96	100		
61	139.4	113.4	170.0
98	71.2	50.9	76.3



Instrument :
MSVOA_Y
ClientSampleId :
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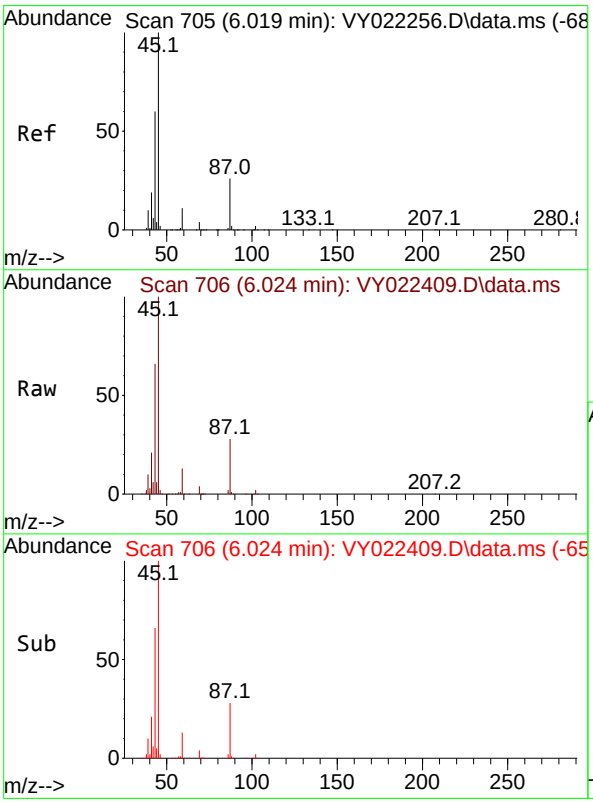
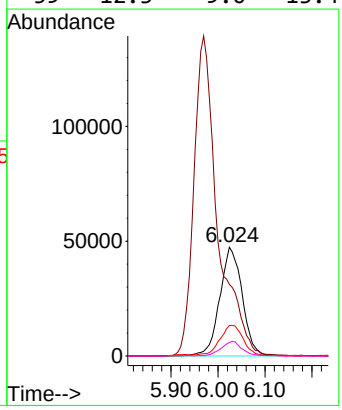
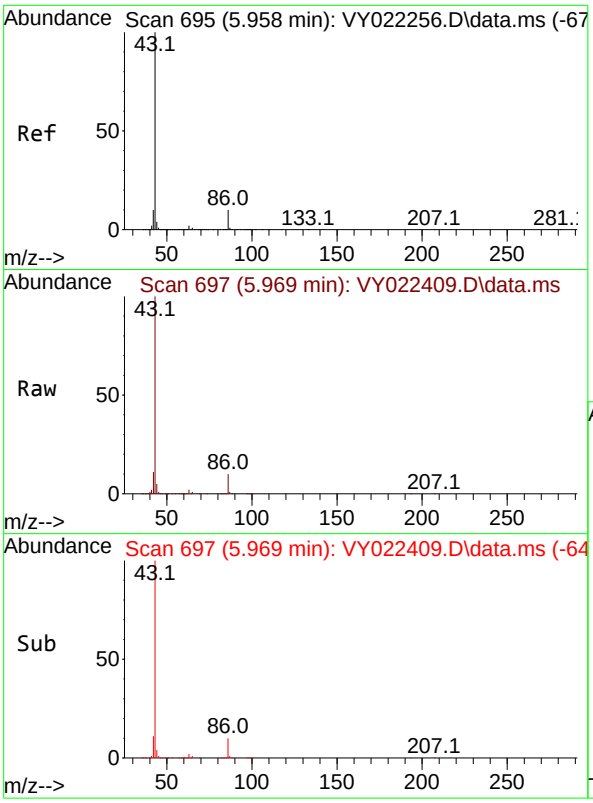


#22
Diisopropyl ether
Concen: 18.014 ug/l
RT: 6.024 min Scan# 706
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 45 Resp: 157311

Ion	Ratio	Lower	Upper
45	100		
43	64.9	48.2	72.2
87	27.8	21.4	32.0
59	12.3	9.0	13.4





#23
Vinyl Acetate
Concen: 92.917 ug/l
RT: 5.969 min Scan# 6
Delta R.T. 0.012 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 43 Resp: 49021

Ion	Ratio	Lower	Upper
43	100		
86	10.4	7.8	11.8

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

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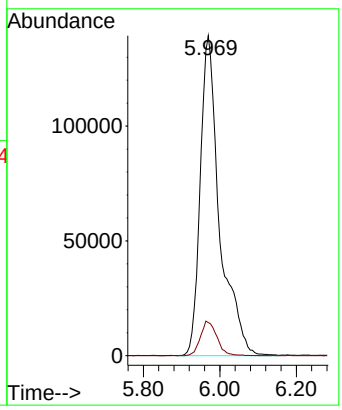
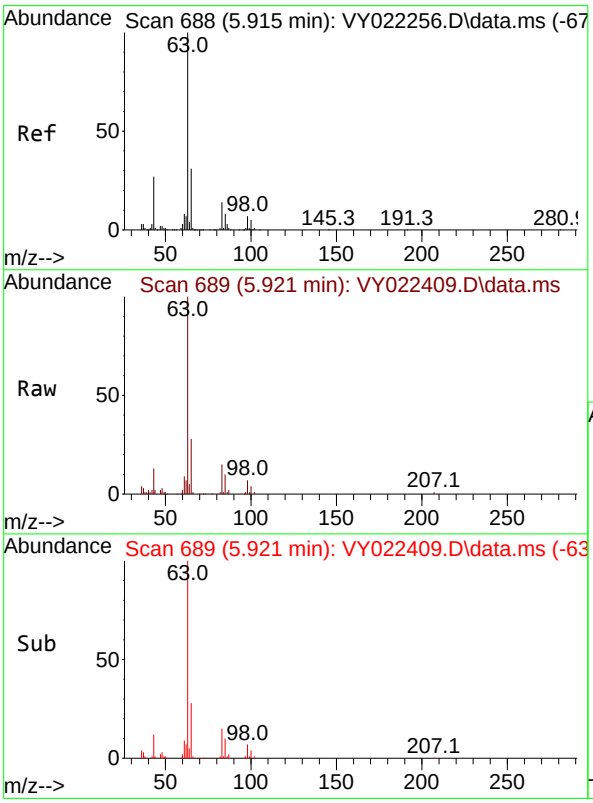
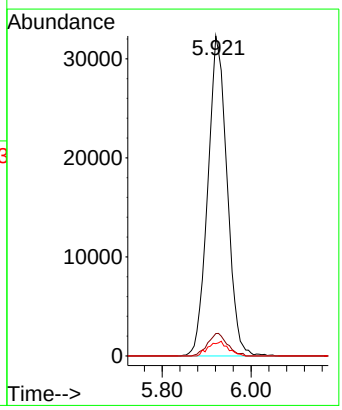


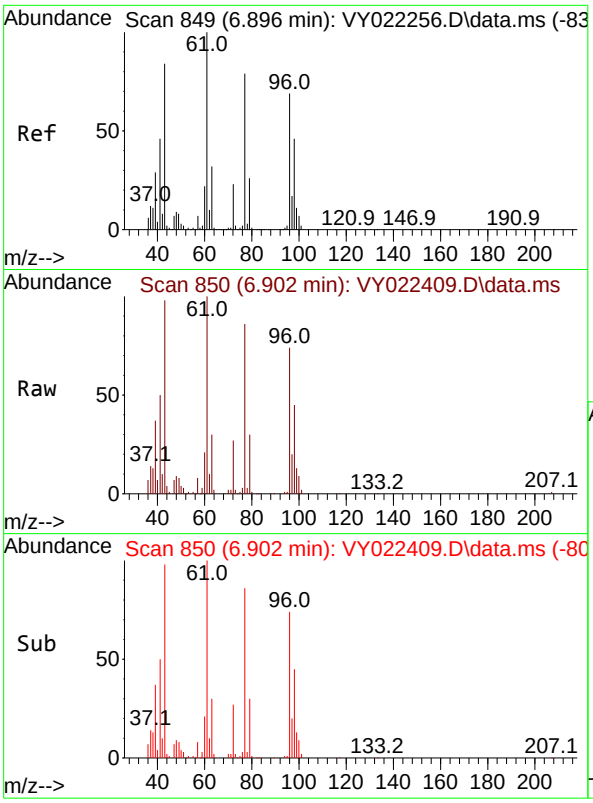


#24
1,1-Dichloroethane
Concen: 19.950 ug/l
RT: 5.921 min Scan# 689
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 63 Resp: 97335

Ion	Ratio	Lower	Upper
63	100		
98	7.0	3.5	10.5
100	3.9	2.4	7.2

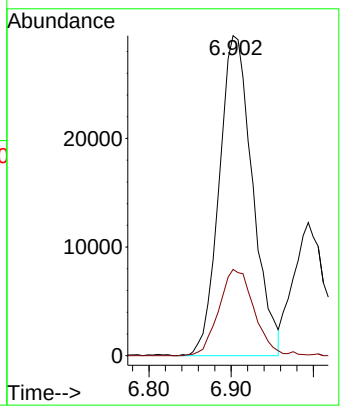




#25
2-Butanone
Concen: 110.000 ug/l
RT: 6.902 min Scan# 8
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 43 Resp: 8313

Ion	Ratio	Lower	Upper
43	100		
72	27.0	22.1	33.1



Instrument :
MSVOA_Y
ClientSampleId :
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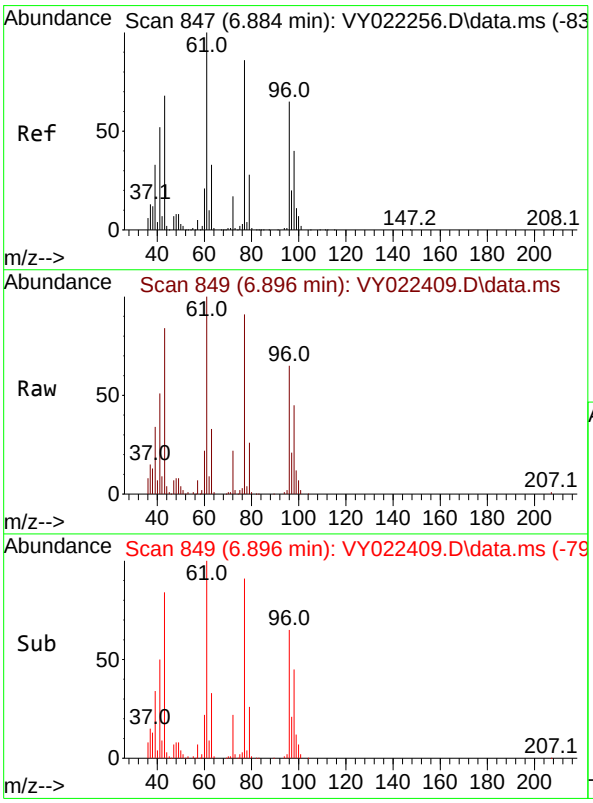
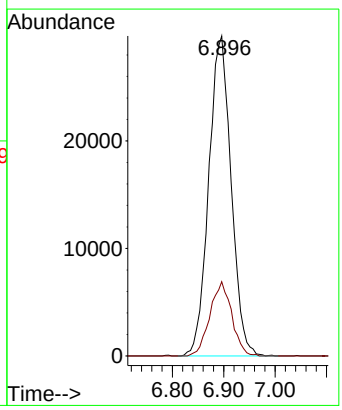
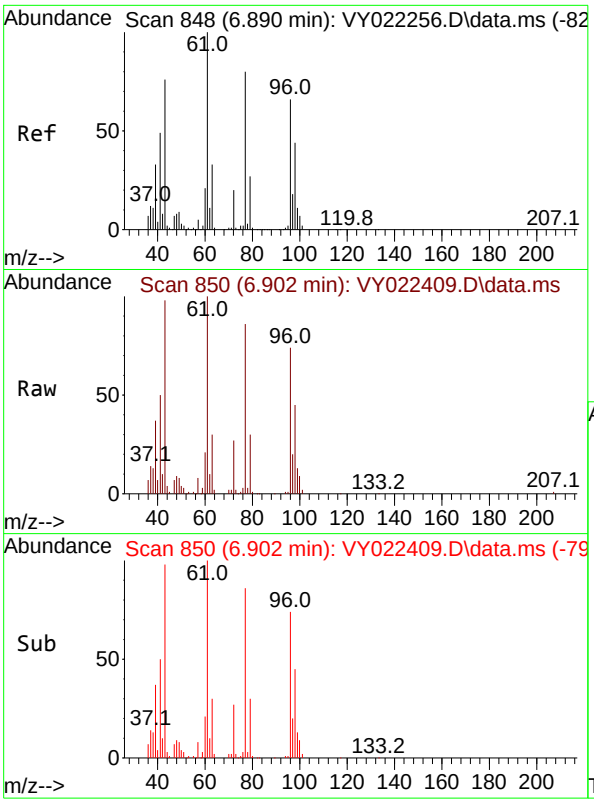


#26
2,2-Dichloropropane
Concen: 20.734 ug/l
RT: 6.896 min Scan# 849
Delta R.T. 0.012 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 77 Resp: 89975

Ion	Ratio	Lower	Upper
77	100		
97	22.6	11.2	33.5

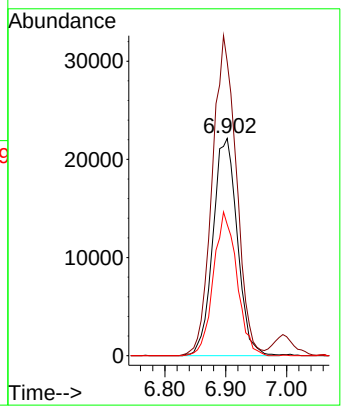




#27
cis-1,2-Dichloroethene
Concen: 20.454 ug/l
RT: 6.902 min Scan# 8
Delta R.T. 0.012 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 96 Resp: 6144

Ion	Ratio	Lower	Upper
96	100		
61	146.3	0.0	302.6
98	63.7	0.0	128.8



Instrument :
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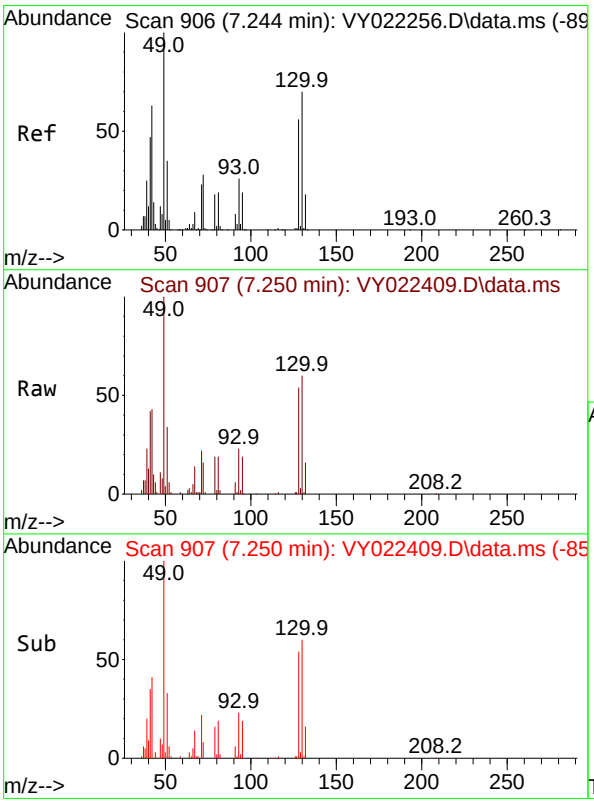
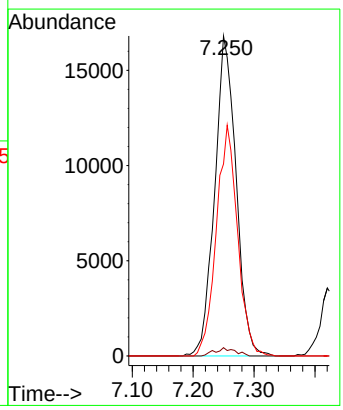
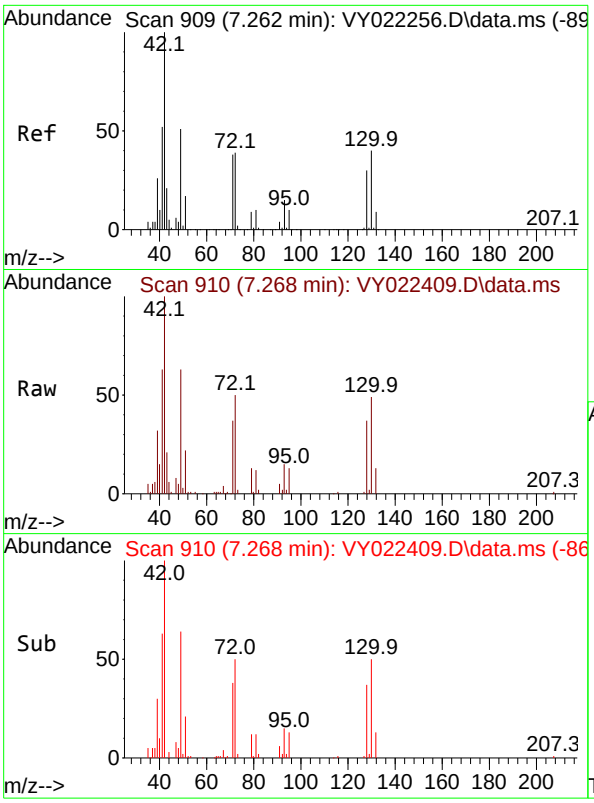


#28
Bromochloromethane
Concen: 19.736 ug/l
RT: 7.250 min Scan# 907
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 49 Resp: 41072

Ion	Ratio	Lower	Upper
49	100		
129	2.4	0.0	3.6
130	71.3	54.7	82.1





#29
Tetrahydrofuran
Concen: 95.797 ug/l
RT: 7.268 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 42 Resp: 4658

Ion	Ratio	Lower	Upper
42	100		
72	46.0	33.8	50.6
71	44.7	31.5	47.3

Instrument :
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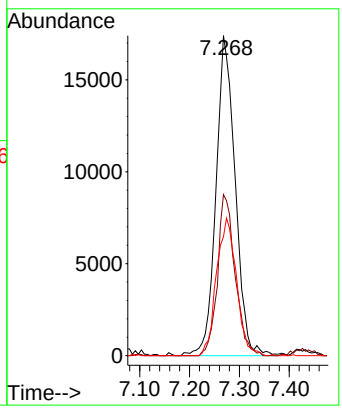
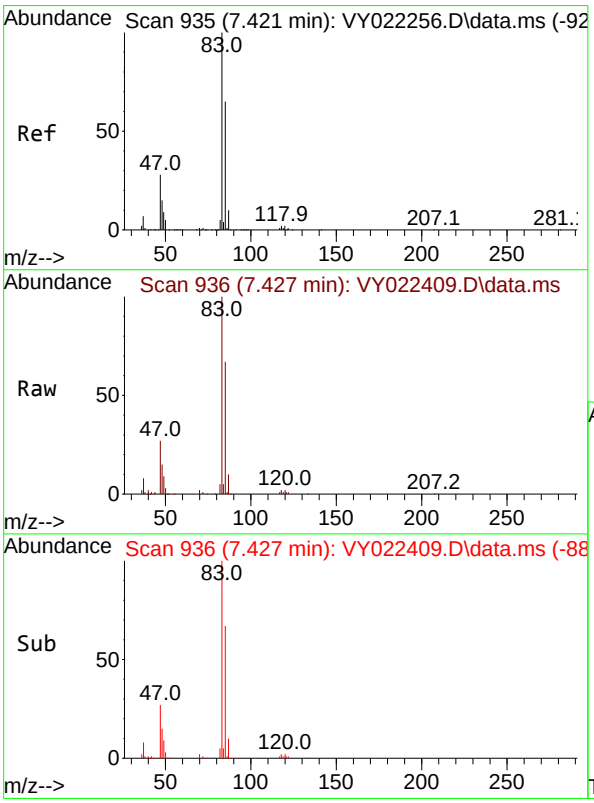
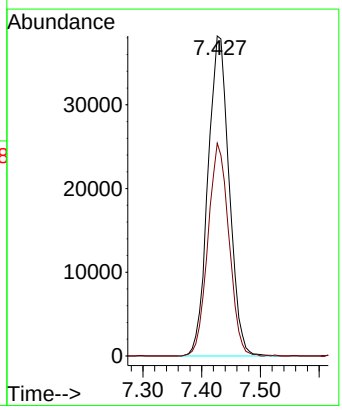


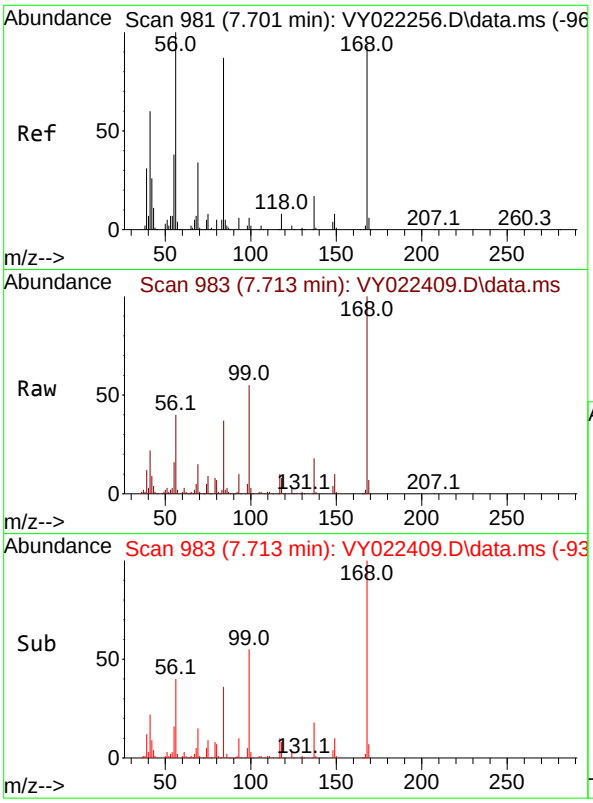


#30
Chloroform
Concen: 20.458 ug/l
RT: 7.427 min Scan# 936
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 83 Resp: 95738

Ion	Ratio	Lower	Upper
83	100		
85	66.5	51.8	77.8





#31
Cyclohexane
Concen: 20.135 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.012 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 56 Resp: 9815

Ion	Ratio	Lower	Upper
56	100		
69	36.6	27.4	41.2
84	90.2	70.0	105.0

Instrument :
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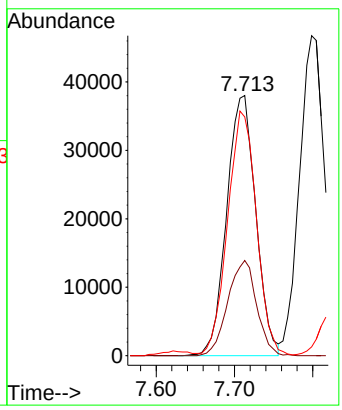
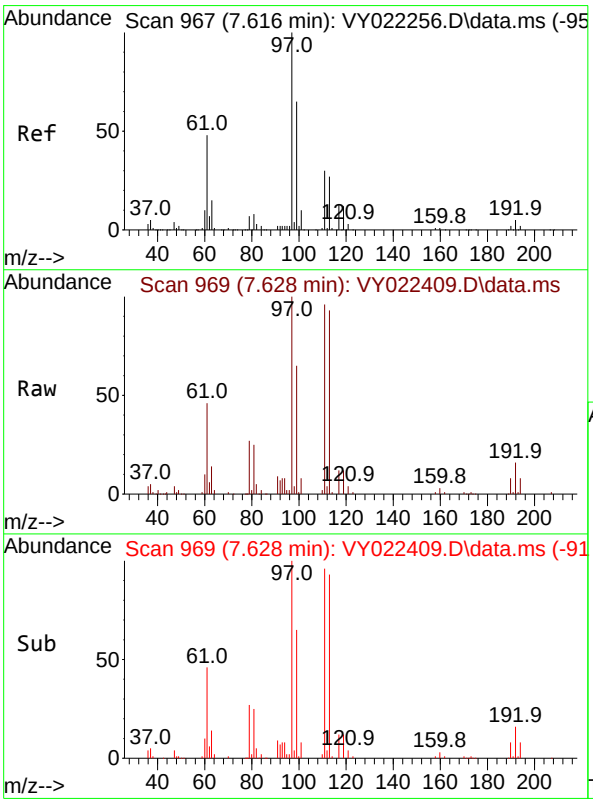
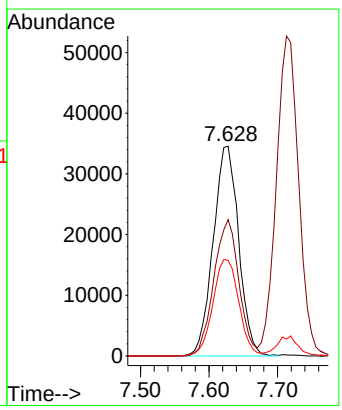


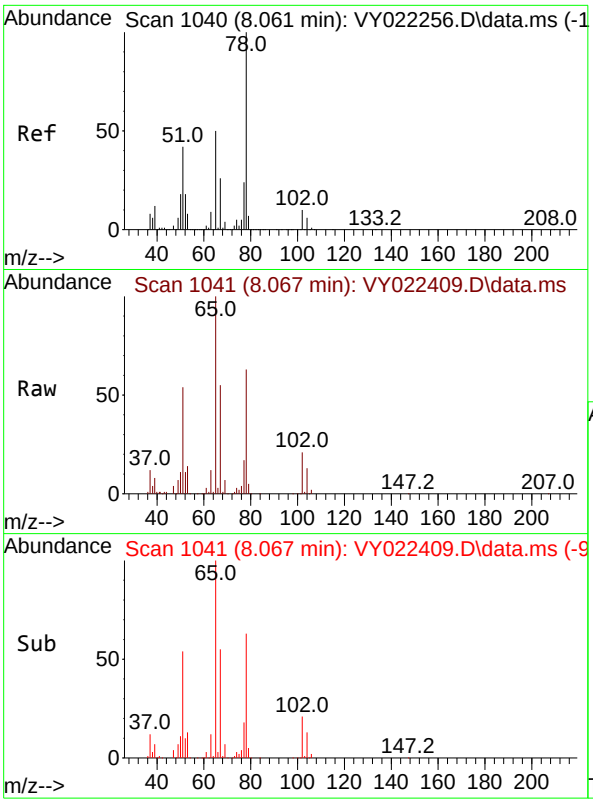


#32
1,1,1-Trichloroethane
Concen: 20.746 ug/l
RT: 7.628 min Scan# 969
Delta R.T. 0.012 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 97 Resp: 89072

Ion	Ratio	Lower	Upper
97	100		
99	64.1	51.4	77.0
61	46.7	38.1	57.1

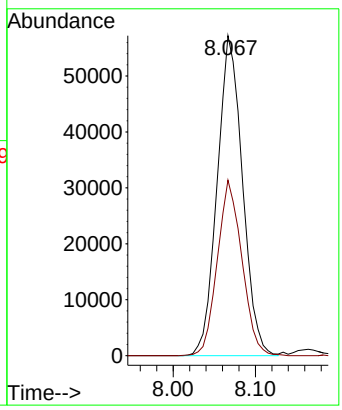




#33
1,2-Dichloroethane-d4
Concen: 50.718 ug/l
RT: 8.067 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 65 Resp: 12221

Ion	Ratio	Lower	Upper
65	100		
67	53.3	0.0	104.6



Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

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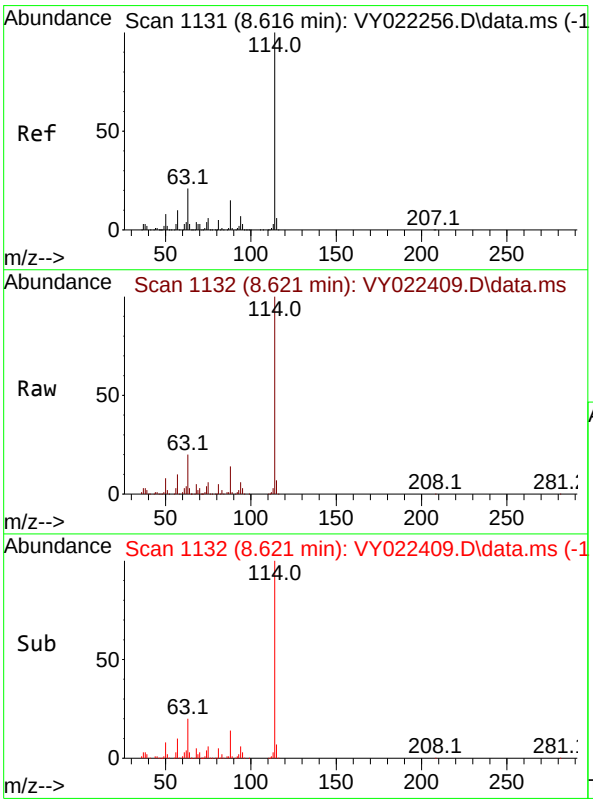
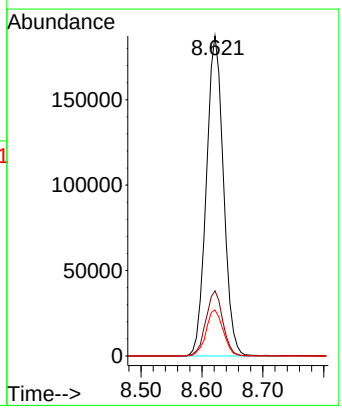
Reviewed By :Mahesh Dadoda 05/27/2025
Supervised By :Semsettin Yesilyurt 05/27/2025

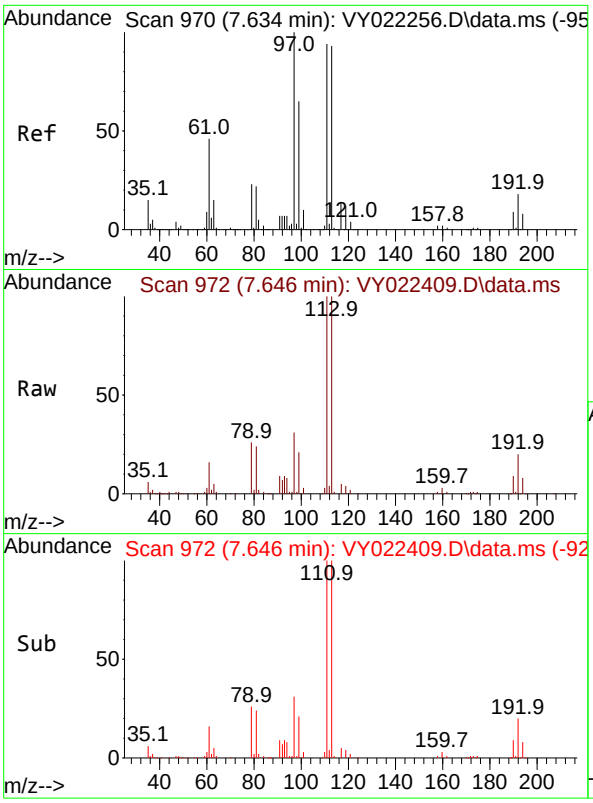


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.621 min Scan# 1132
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion:114 Resp: 365163

Ion	Ratio	Lower	Upper
114	100		
63	20.4	0.0	41.0
88	14.4	0.0	29.4

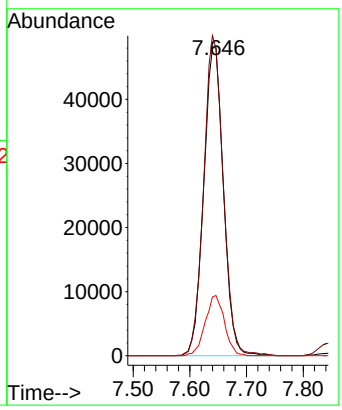




#35
Dibromofluoromethane
Concen: 53.556 ug/l
RT: 7.646 min Scan# 9
Delta R.T. 0.012 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion:113 Resp: 11672

Ion	Ratio	Lower	Upper
113	100		
111	102.4	82.6	123.8
192	19.0	15.2	22.8



Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

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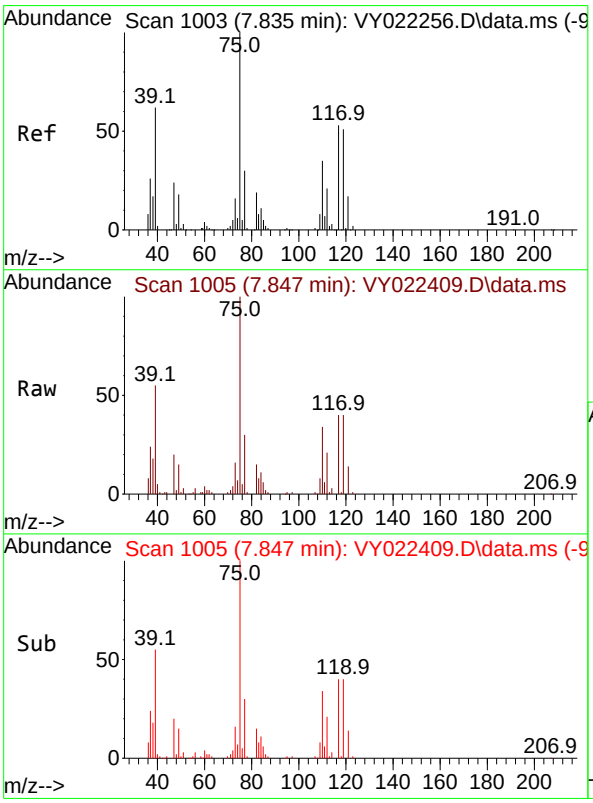
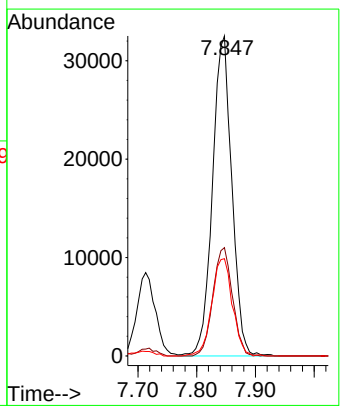
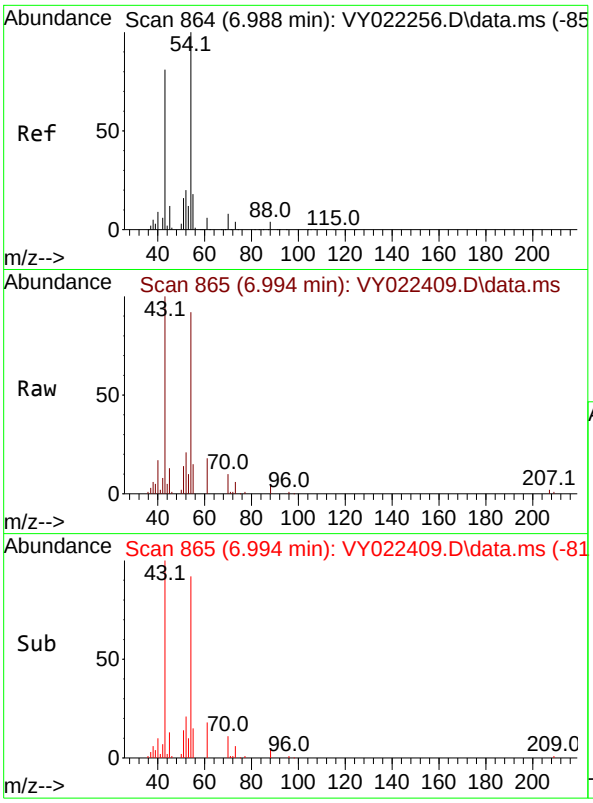


#36
1,1-Dichloropropene
Concen: 20.729 ug/l
RT: 7.847 min Scan# 1005
Delta R.T. 0.012 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 75 Resp: 74413

Ion	Ratio	Lower	Upper
75	100		
110	34.2	16.6	49.8
77	32.4	24.6	37.0





#37
Ethyl Acetate
Concen: 19.073 ug/l
RT: 6.994 min Scan# 8
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 43 Resp: 3294

Ion	Ratio	Lower	Upper
43	100		
61	14.5	10.2	15.2
70	10.5	7.6	11.4

Instrument :
MSVOA_Y
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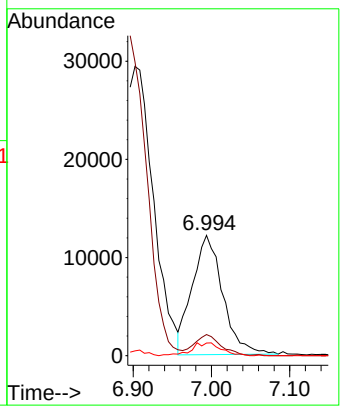
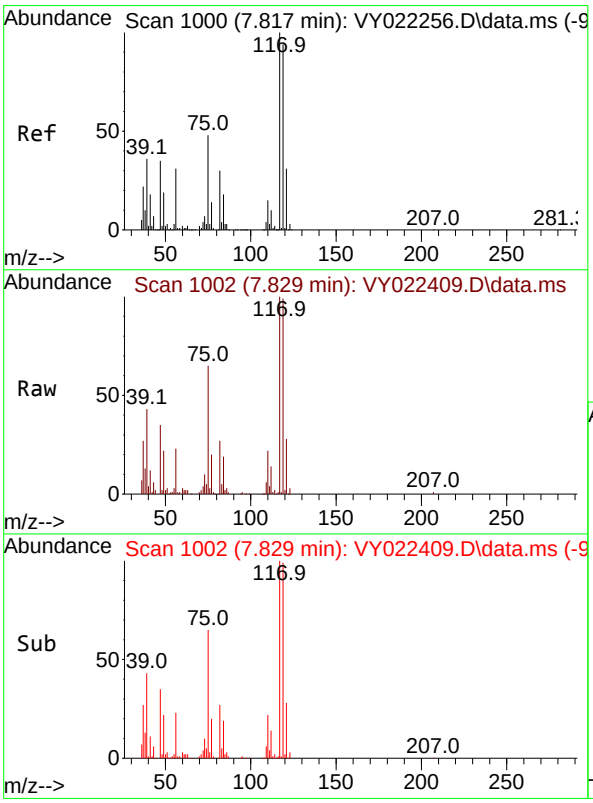
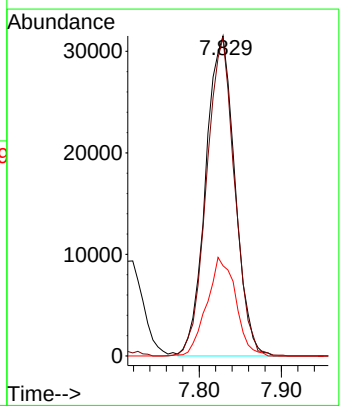


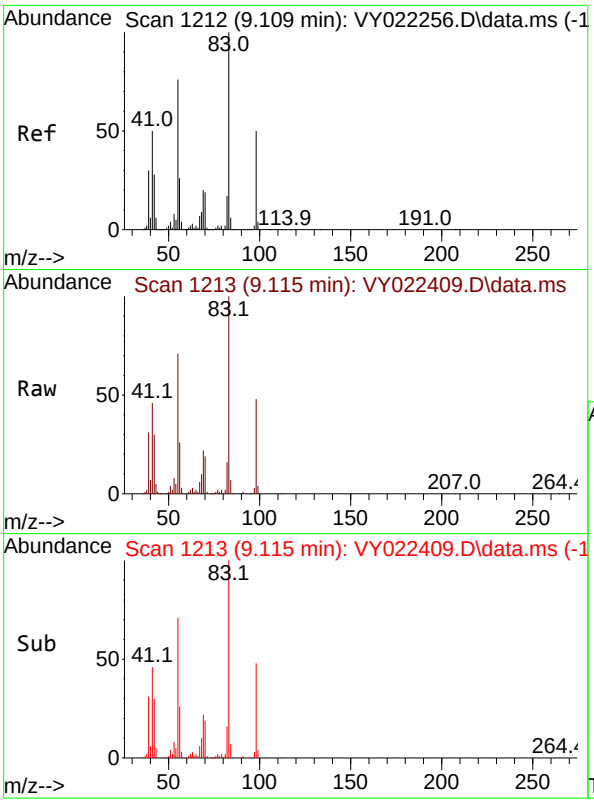


#38
Carbon Tetrachloride
Concen: 20.880 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. 0.012 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion:117 Resp: 77588

Ion	Ratio	Lower	Upper
117	100		
119	99.2	75.3	112.9
121	28.2	24.7	37.1

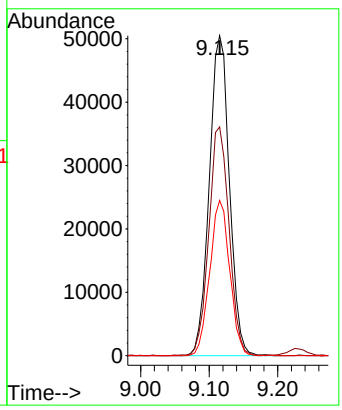




#39
Methylcyclohexane
Concen: 21.353 ug/l
RT: 9.115 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 83 Resp: 10298

Ion	Ratio	Lower	Upper
83	100		
55	71.3	60.6	90.8
98	48.5	40.0	60.0



Instrument :
MSVOA_Y
ClientSampleId :
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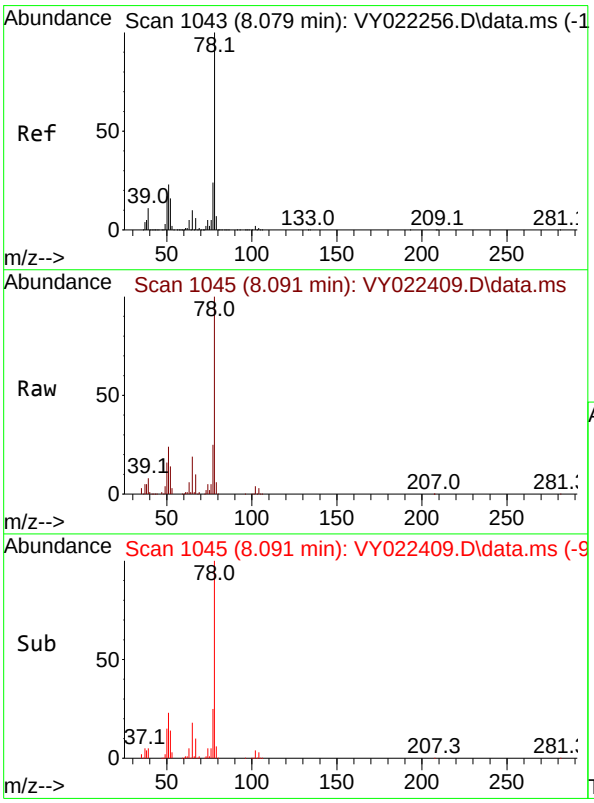
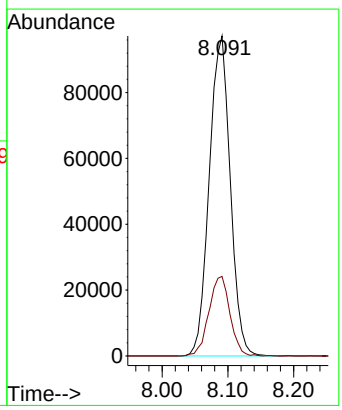
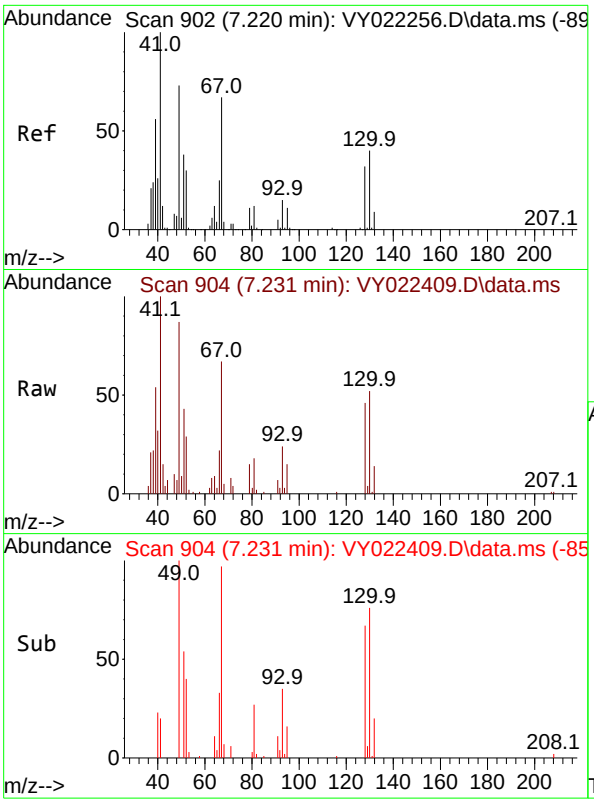


#40
Benzene
Concen: 20.291 ug/l
RT: 8.091 min Scan# 1045
Delta R.T. 0.012 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 78 Resp: 215939

Ion	Ratio	Lower	Upper
78	100		
77	24.8	18.9	28.3

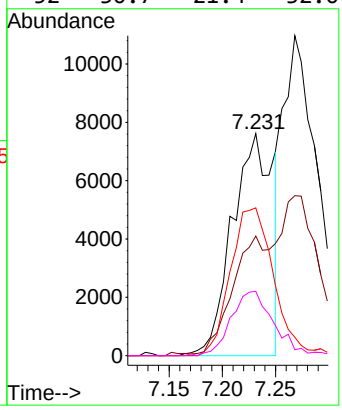




#41
Methacrylonitrile
Concen: 17.538 ug/l m
RT: 7.231 min Scan# 9
Delta R.T. 0.012 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 41 Resp: 2009

Ion	Ratio	Lower	Upper
41	100		
39	40.2	39.1	58.7
67	71.3	47.1	70.7
52	30.7	21.4	32.0



Instrument :
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ClientSampleId :
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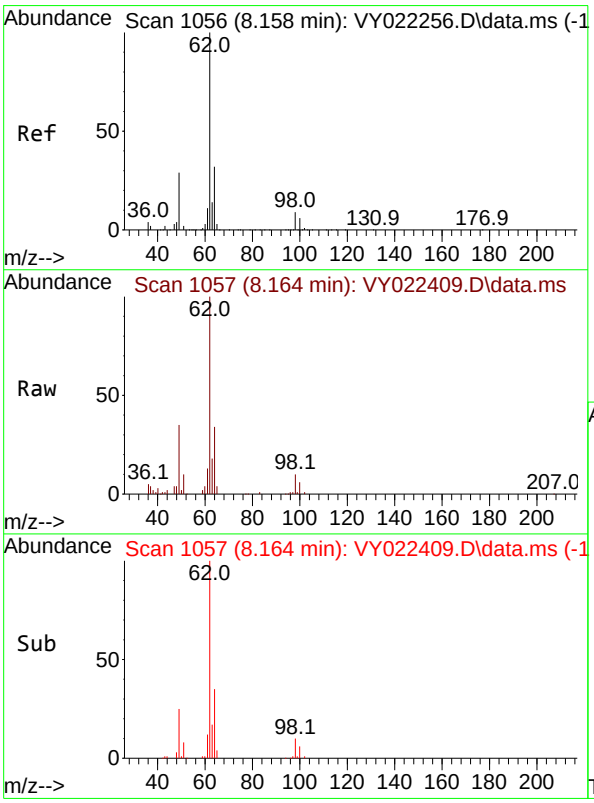
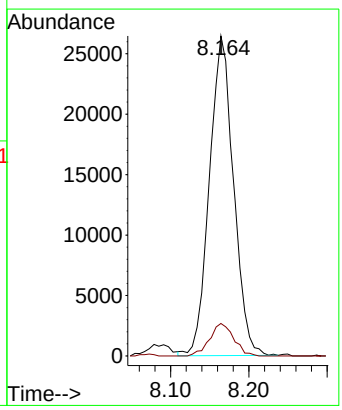
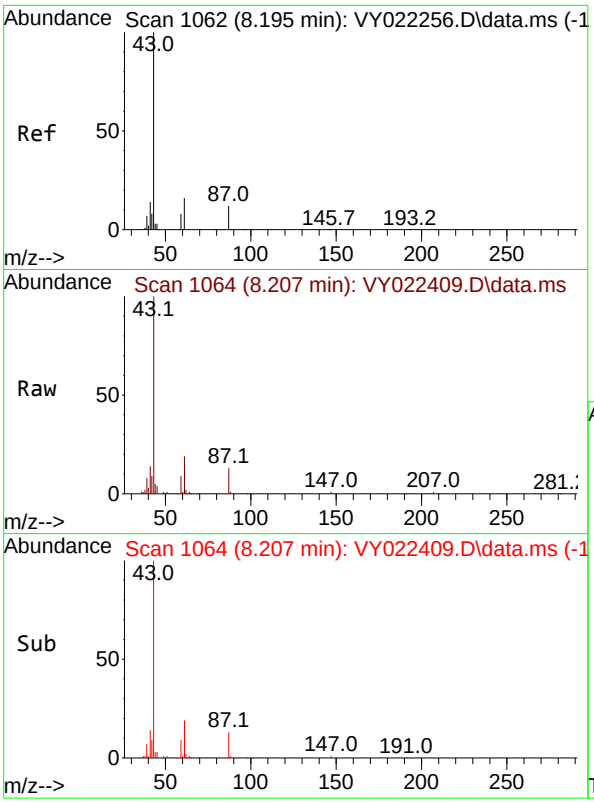


#42
1,2-Dichloroethane
Concen: 19.649 ug/l
RT: 8.164 min Scan# 1057
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 62 Resp: 56548

Ion	Ratio	Lower	Upper
62	100		
98	10.2	0.0	18.4

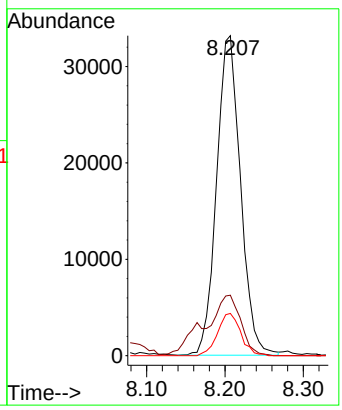




#43
Isopropyl Acetate
Concen: 18.681 ug/l
RT: 8.207 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 43 Resp: 7037

Ion	Ratio	Lower	Upper
43	100		
61	20.2	15.1	22.7
87	12.8	9.7	14.5



Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

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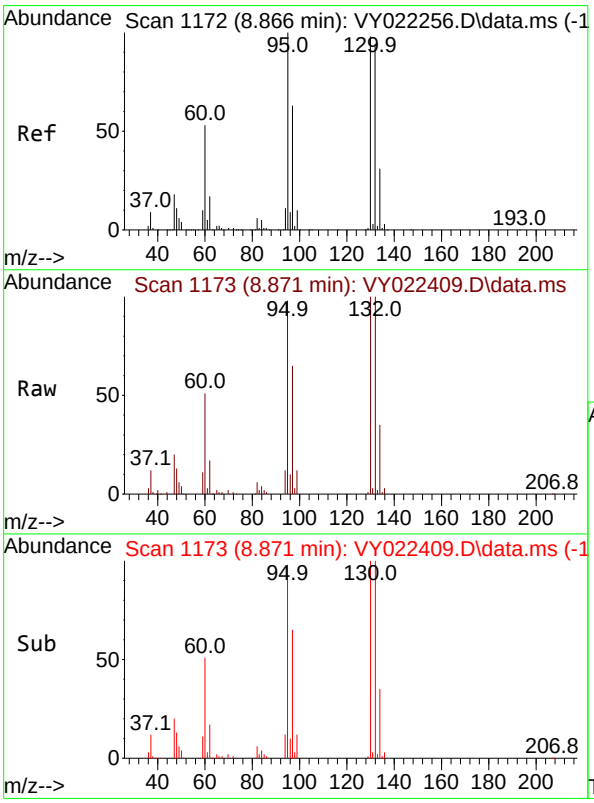
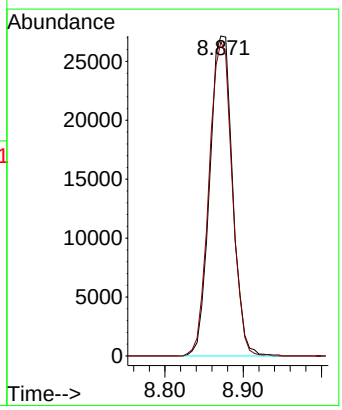
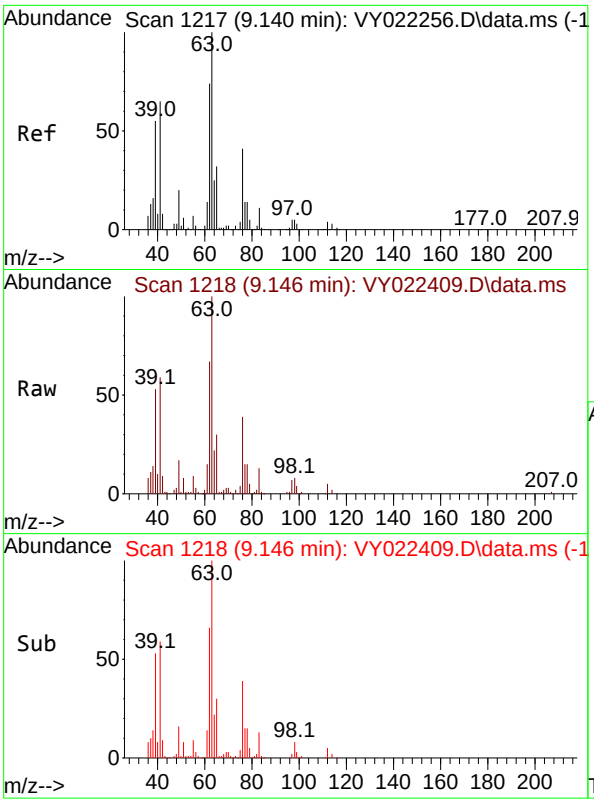


#44
Trichloroethene
Concen: 20.806 ug/l
RT: 8.871 min Scan# 1173
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion:130 Resp: 55056

Ion	Ratio	Lower	Upper
130	100		
95	98.2	0.0	204.8





#45
1,2-Dichloropropane
Concen: 19.991 ug/l
RT: 9.146 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 63 Resp: 5129

Ion	Ratio	Lower	Upper
63	100		
65	30.4	25.7	38.5

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

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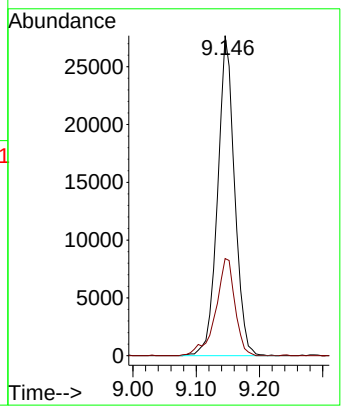
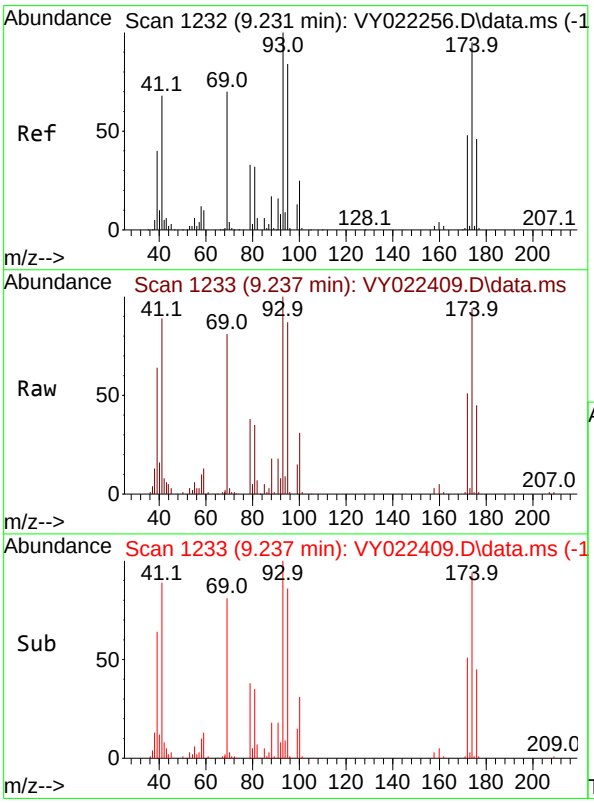
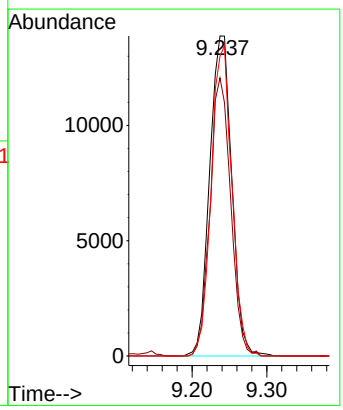


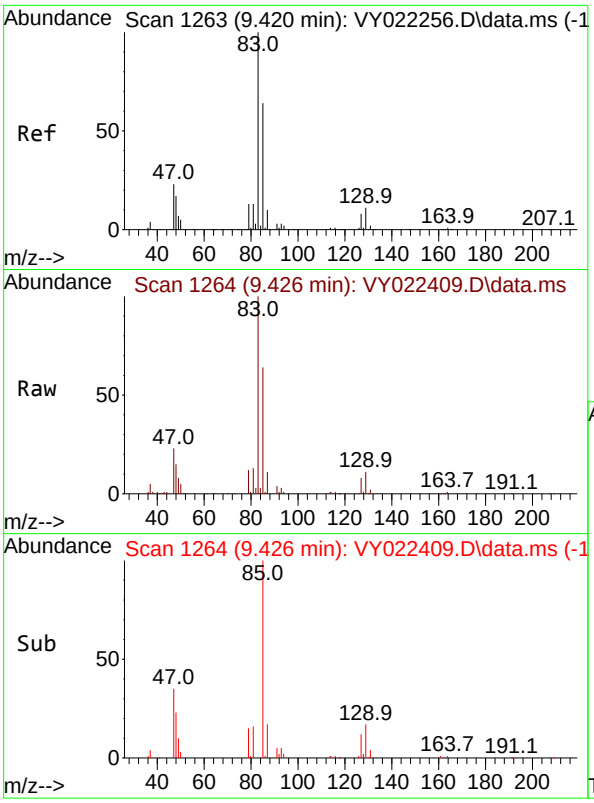


#46
Dibromomethane
Concen: 20.659 ug/l
RT: 9.237 min Scan# 1233
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 93 Resp: 28589

Ion	Ratio	Lower	Upper
93	100		
95	81.1	65.2	97.8
174	90.9	74.3	111.5

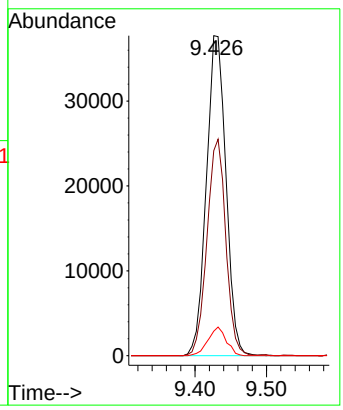




#47
Bromodichloromethane
Concen: 19.978 ug/l
RT: 9.426 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 83 Resp: 7172

Ion	Ratio	Lower	Upper
83	100		
85	64.0	51.1	76.7
127	7.7	6.6	10.0



Instrument :
MSVOA_Y
ClientSampleId :
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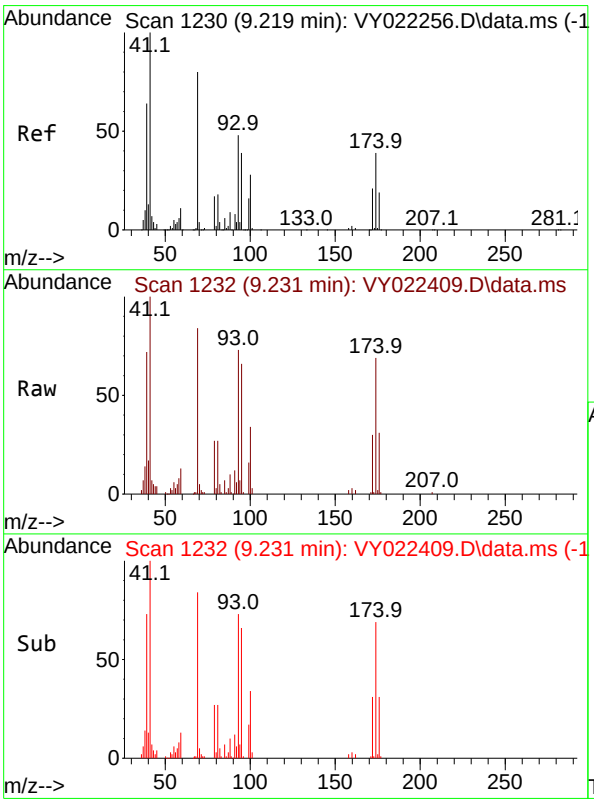
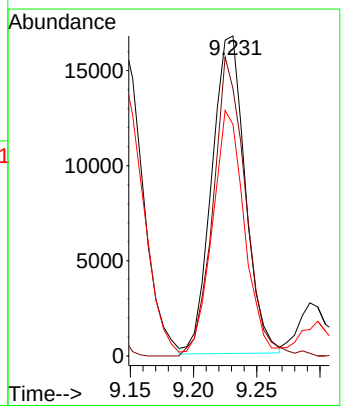
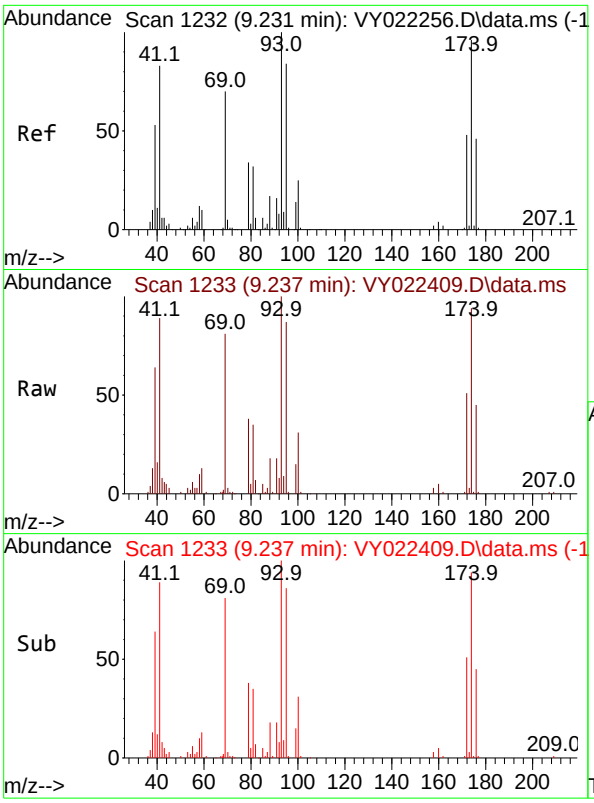


#48
Methyl methacrylate
Concen: 17.434 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.012 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 41 Resp: 30712

Ion	Ratio	Lower	Upper
41	100		
69	90.6	63.5	95.3
39	72.0	50.8	76.2

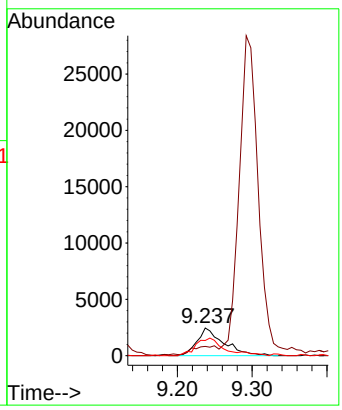




#49
1,4-Dioxane
Concen: 389.226 ug/l
RT: 9.237 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 88 Resp: 608

Ion	Ratio	Lower	Upper
88	100		
43	35.6	28.5	42.7
58	68.0	61.4	92.2



Instrument :
MSVOA_Y
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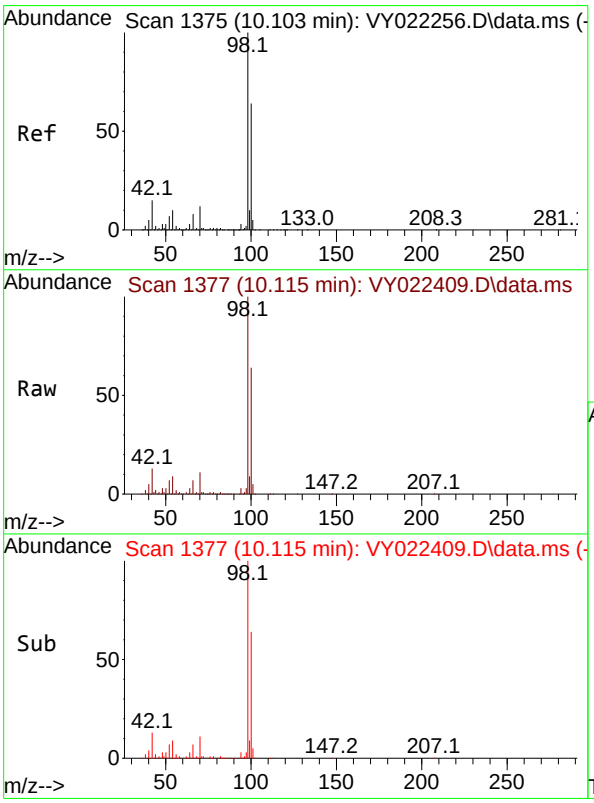
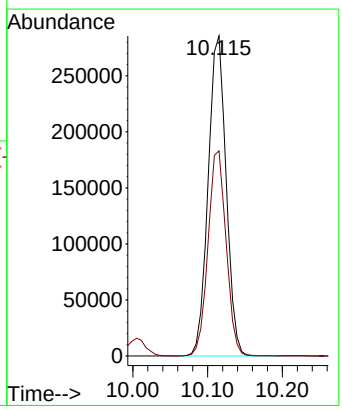
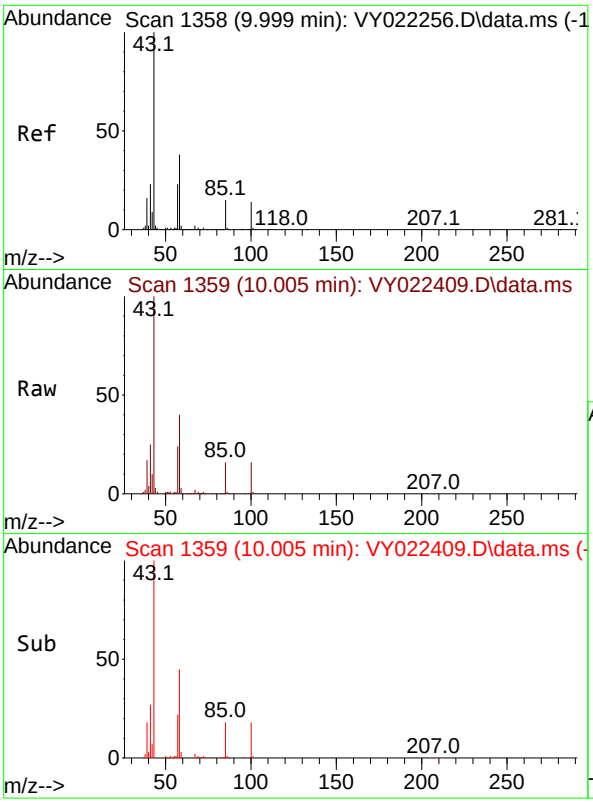


#50
Toluene-d8
Concen: 53.519 ug/l
RT: 10.115 min Scan# 1377
Delta R.T. 0.012 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 98 Resp: 477724

Ion	Ratio	Lower	Upper
98	100		
100	64.5	51.8	77.8

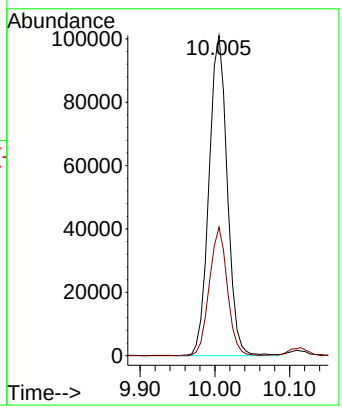




#51
4-Methyl-2-Pentanone
Concen: 92.790 ug/l
RT: 10.005 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 43 Resp: 17150

Ion	Ratio	Lower	Upper
43	100		
58	39.5	29.4	44.2



Instrument :
MSVOA_Y
ClientSampleId :
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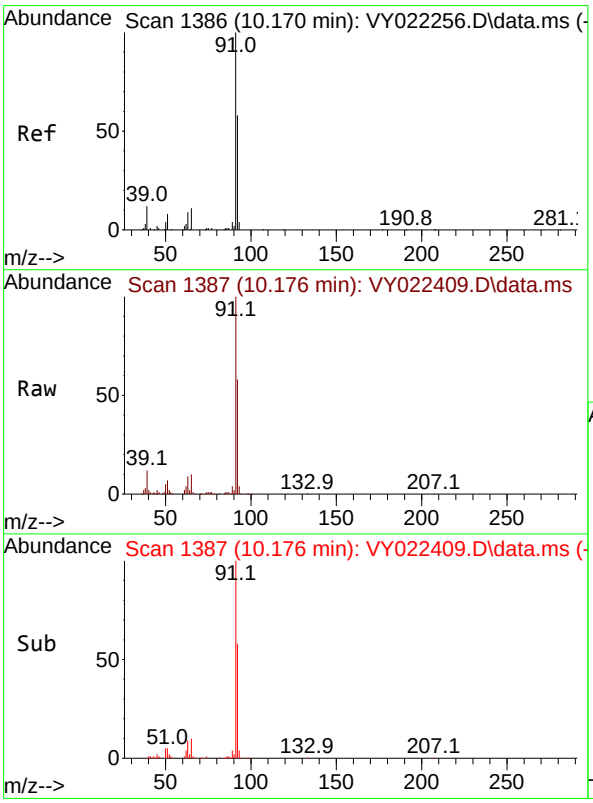
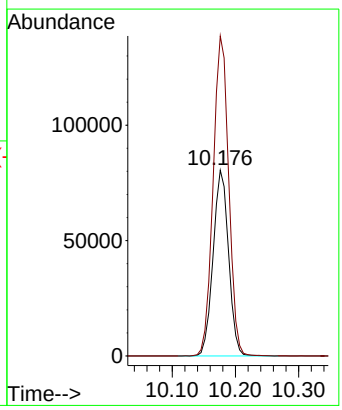
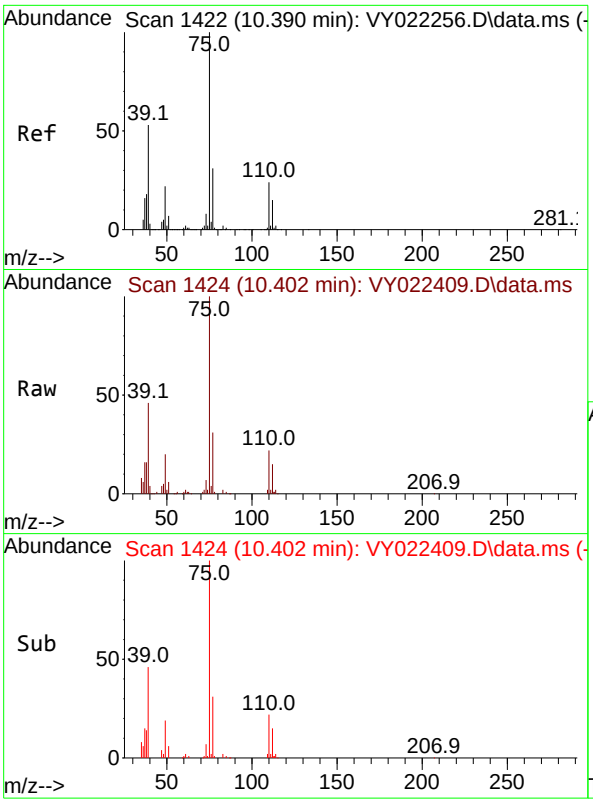


#52
Toluene
Concen: 20.220 ug/l
RT: 10.176 min Scan# 1387
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 92 Resp: 136262

Ion	Ratio	Lower	Upper
92	100		
91	173.6	139.1	208.7

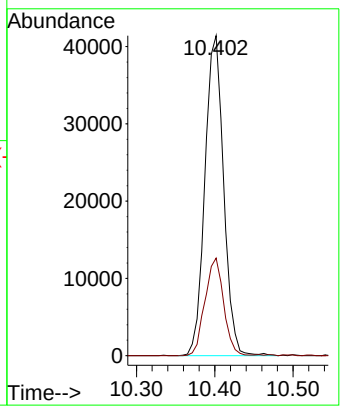




#53
t-1,3-Dichloropropene
Concen: 19.603 ug/l
RT: 10.402 min Scan# 14
Delta R.T. 0.012 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 75 Resp: 6868

Ion	Ratio	Lower	Upper
75	100		
77	30.5	25.0	37.6



Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

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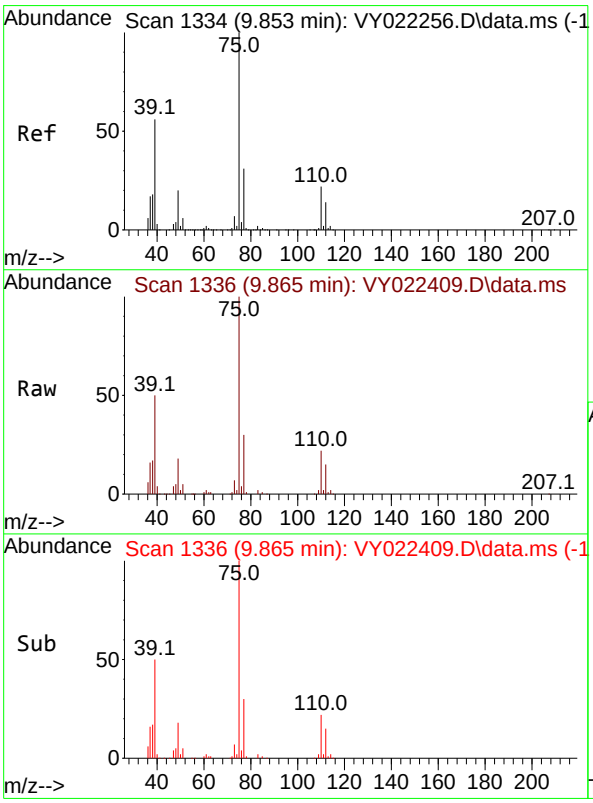
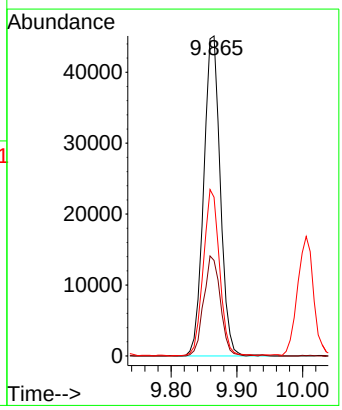
Supervised By :Semsettin Yesilyurt 05/27/2025

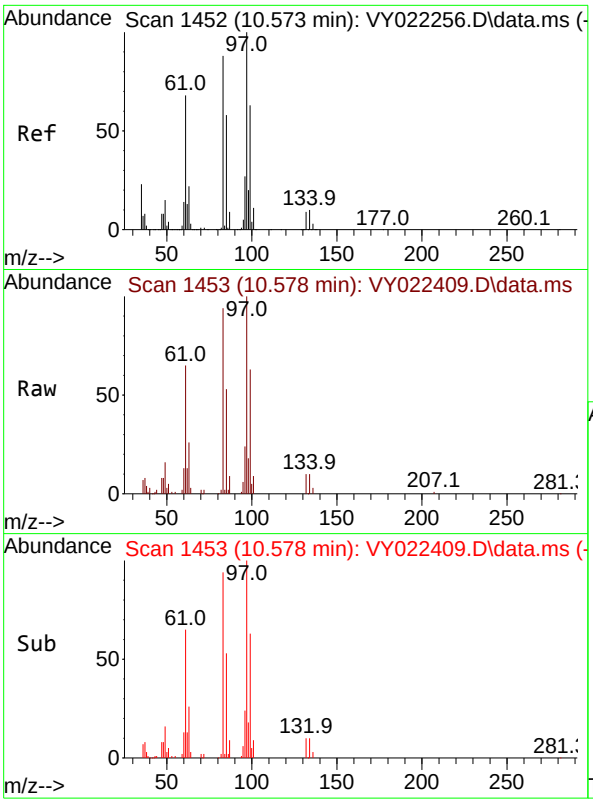


#54
cis-1,3-Dichloropropene
Concen: 19.702 ug/l
RT: 9.865 min Scan# 1336
Delta R.T. 0.012 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 75 Resp: 79085

Ion	Ratio	Lower	Upper
75	100		
77	29.9	25.1	37.7
39	49.5	44.5	66.7

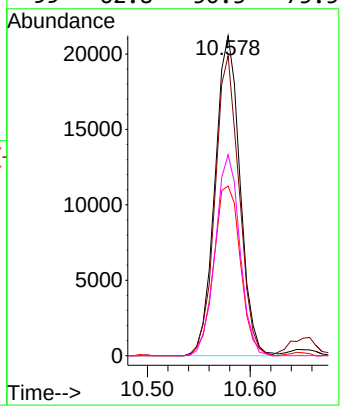




#55
1,1,2-Trichloroethane
Concen: 20.168 ug/l
RT: 10.578 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 97 Resp: 3573

Ion	Ratio	Lower	Upper
97	100		
83	93.7	70.3	105.5
85	53.0	46.2	69.4
99	62.8	50.3	75.5



Instrument :
MSVOA_Y
ClientSampleId :
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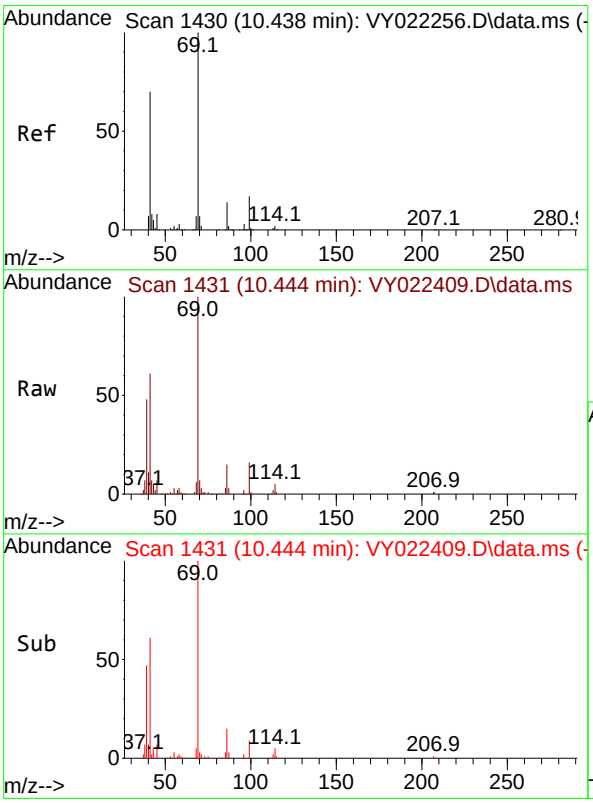
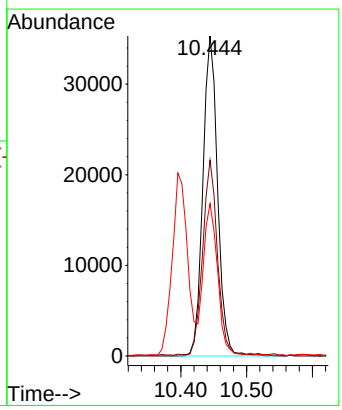
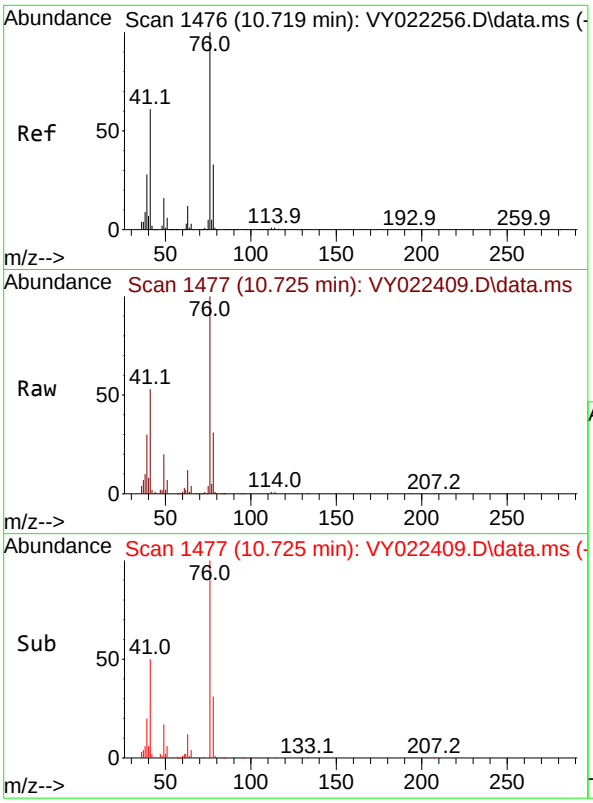


#56
Ethyl methacrylate
Concen: 19.889 ug/l
RT: 10.444 min Scan# 1431
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 69 Resp: 54901

Ion	Ratio	Lower	Upper
69	100		
41	61.0	56.5	84.7
39	44.3	37.1	55.7

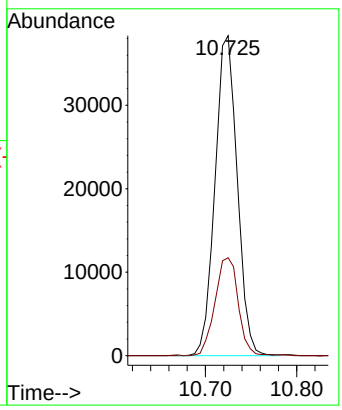




#57
1,3-Dichloropropane
Concen: 20.578 ug/l
RT: 10.725 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 76 Resp: 6479

Ion	Ratio	Lower	Upper
76	100		
78	32.1	25.8	38.8



Instrument :
MSVOA_Y
ClientSampleId :
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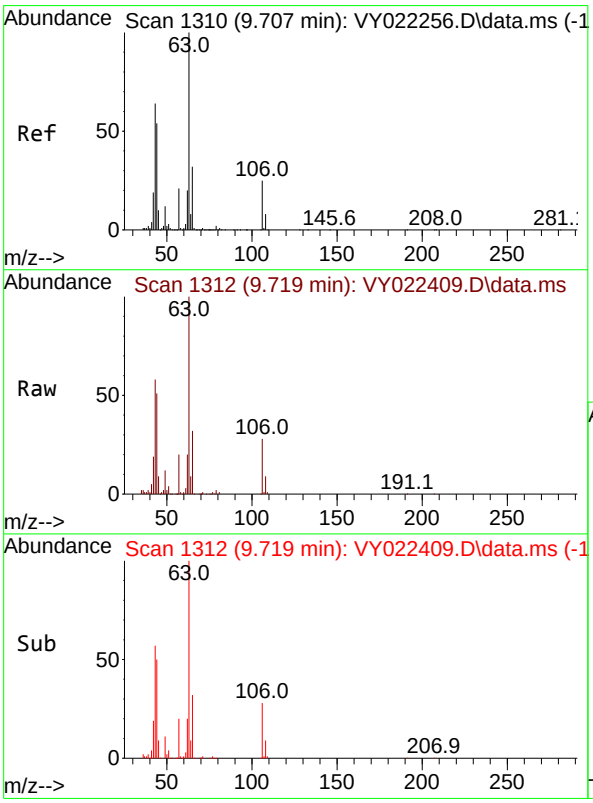
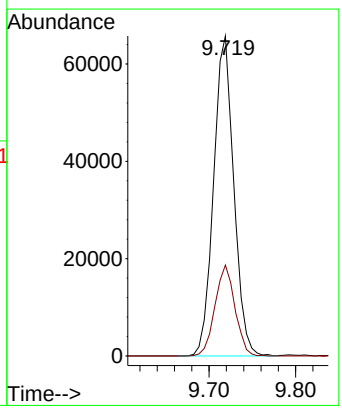
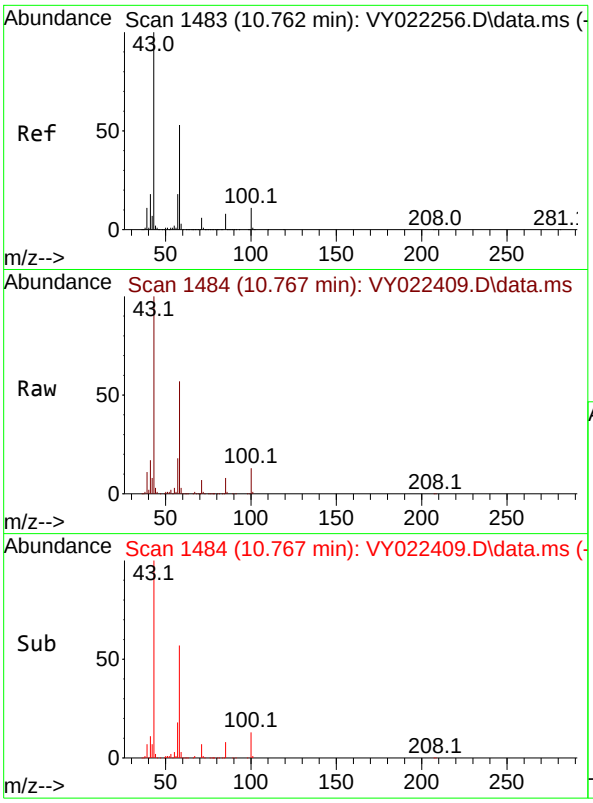


#58
2-Chloroethyl Vinyl ether
Concen: 85.834 ug/l
RT: 9.719 min Scan# 1312
Delta R.T. 0.012 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 63 Resp: 106348

Ion	Ratio	Lower	Upper
63	100		
106	28.0	21.0	31.4





#59
2-Hexanone
Concen: 102.550 ug/l
RT: 10.767 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 43 Resp: 12708

Ion	Ratio	Lower	Upper
43	100		
58	54.9	26.1	78.3

Instrument :
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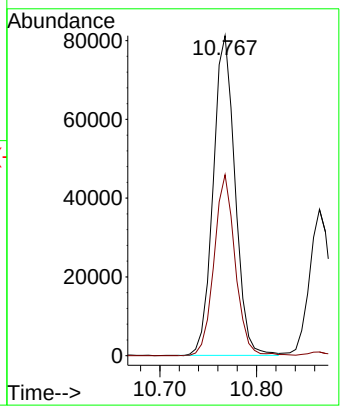
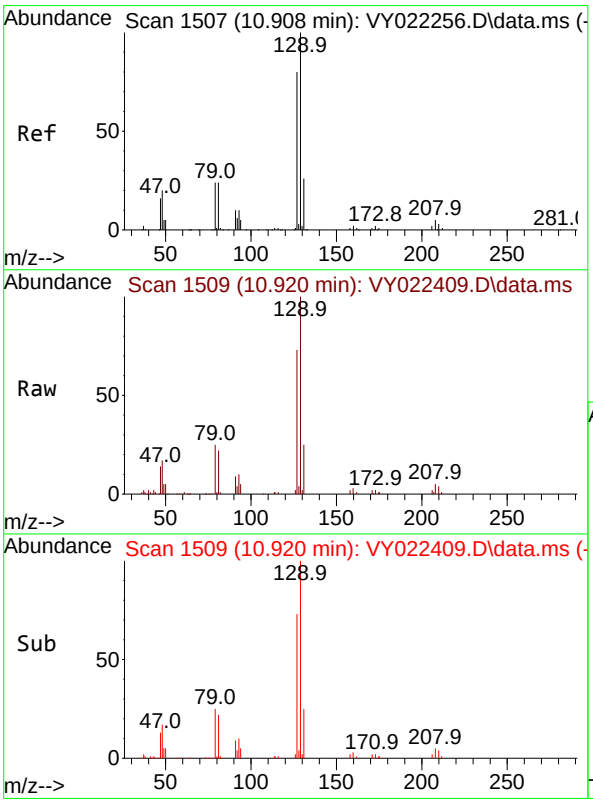
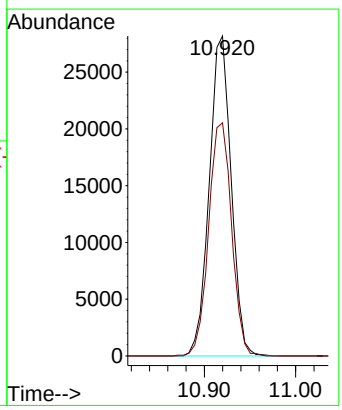


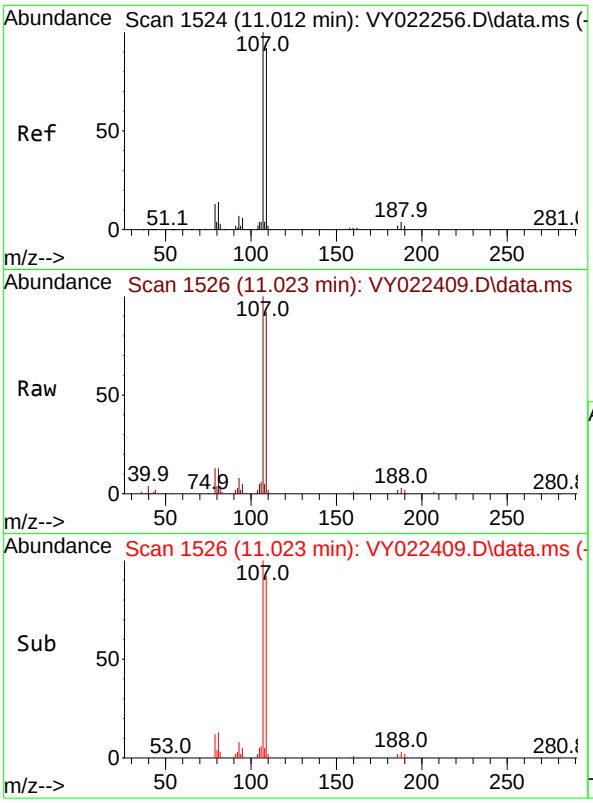


#60
Dibromochloromethane
Concen: 20.398 ug/l
RT: 10.920 min Scan# 1509
Delta R.T. 0.012 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion:129 Resp: 46918

Ion	Ratio	Lower	Upper
129	100		
127	76.4	38.6	115.7





#61
1,2-Dibromoethane
Concen: 20.674 ug/l
RT: 11.023 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion:107 Resp: 3414

Ion	Ratio	Lower	Upper
107	100		
109	94.4	74.6	111.8

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

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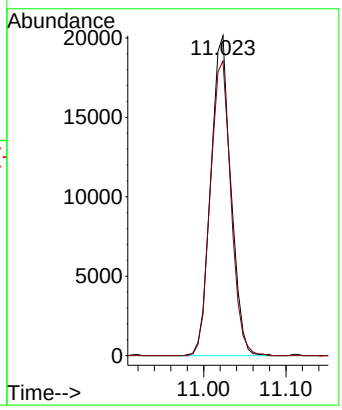
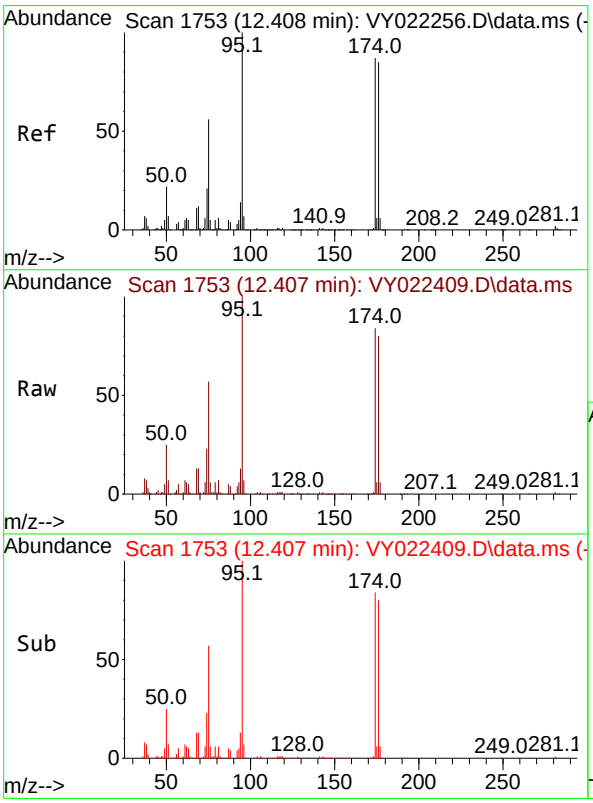
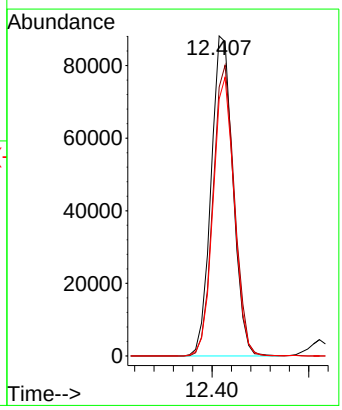


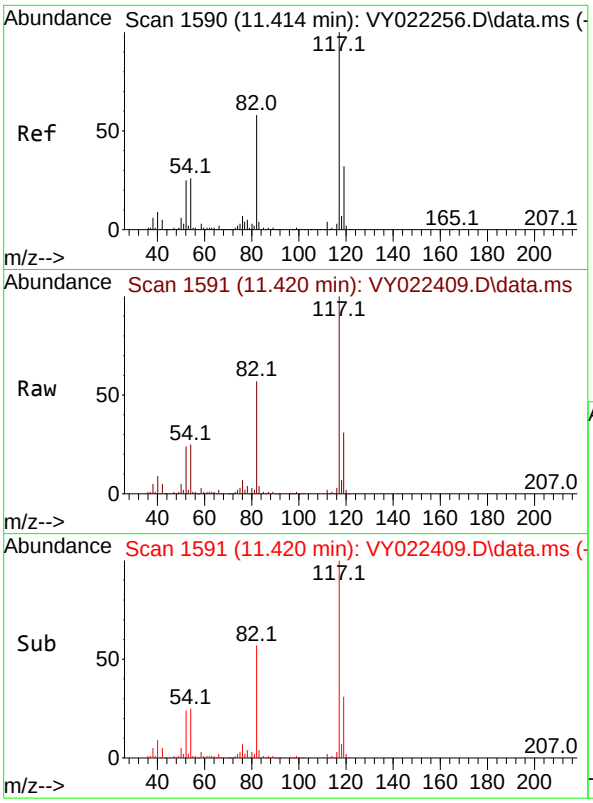


#62
4-Bromofluorobenzene
Concen: 48.757 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. -0.000 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 95 Resp: 137951

Ion	Ratio	Lower	Upper
95	100		
174	89.3	0.0	166.8
176	84.6	0.0	160.8

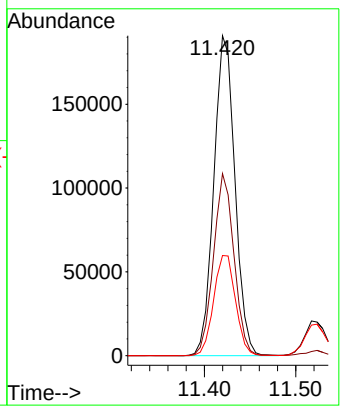




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion:117 Resp: 30645

Ion	Ratio	Lower	Upper
117	100		
82	56.9	46.6	70.0
119	31.3	25.8	38.6



Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

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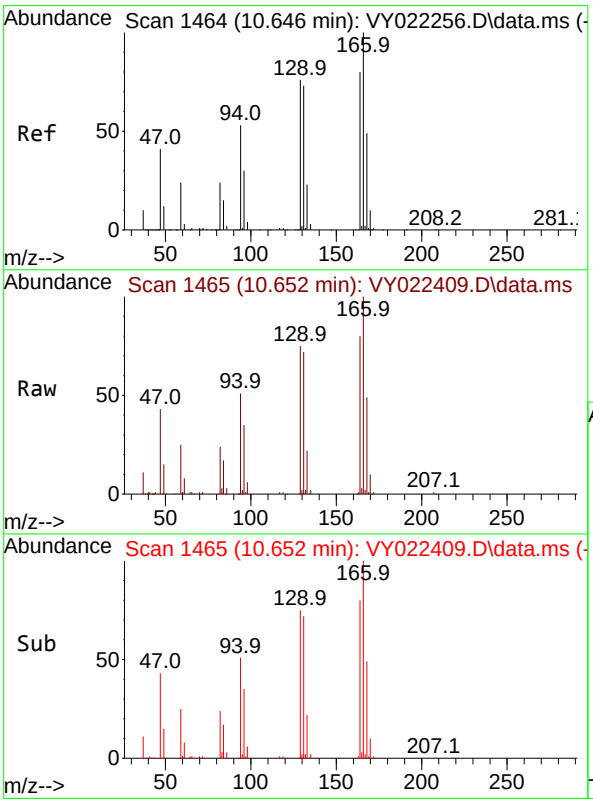
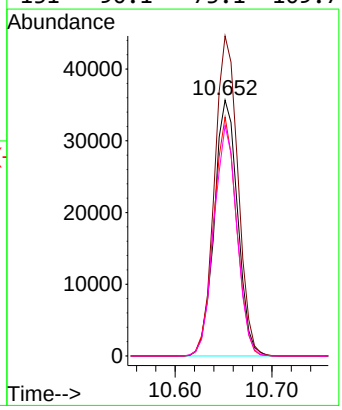
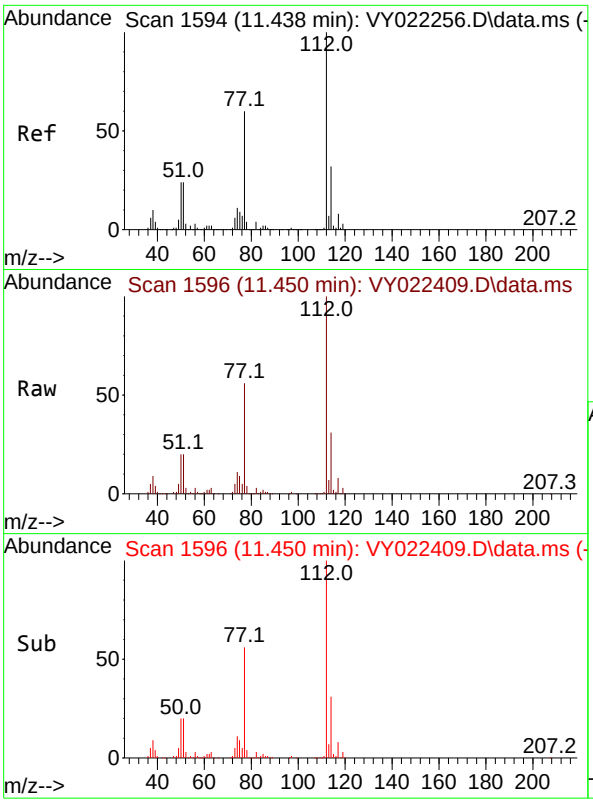


#64
Tetrachloroethene
Concen: 21.065 ug/l
RT: 10.652 min Scan# 1465
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion:164 Resp: 59668

Ion	Ratio	Lower	Upper
164	100		
166	125.1	100.4	150.6
129	93.4	76.4	114.6
131	90.1	73.1	109.7

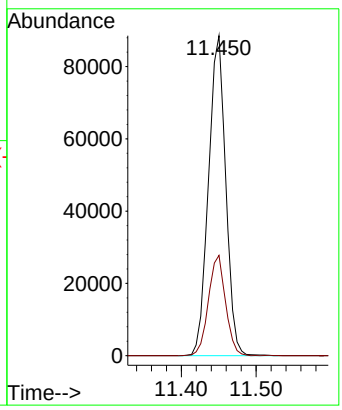




#65
Chlorobenzene
Concen: 20.547 ug/l
RT: 11.450 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion:112 Resp: 14205

Ion	Ratio	Lower	Upper
112	100		
114	31.4	25.8	38.6



Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

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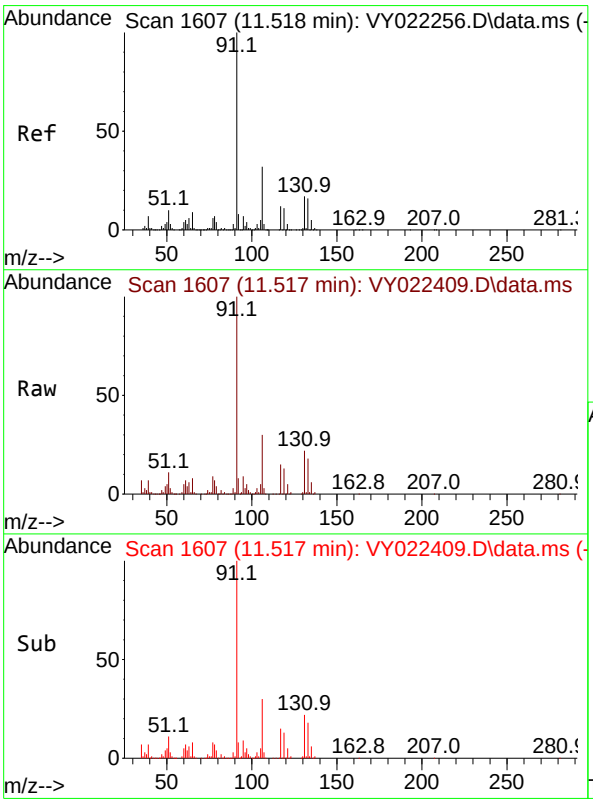
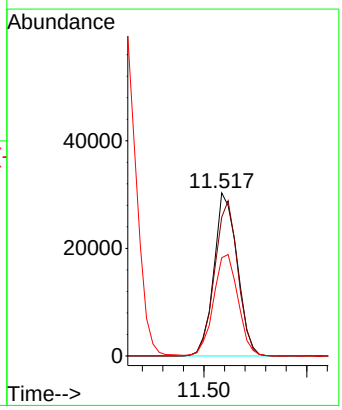
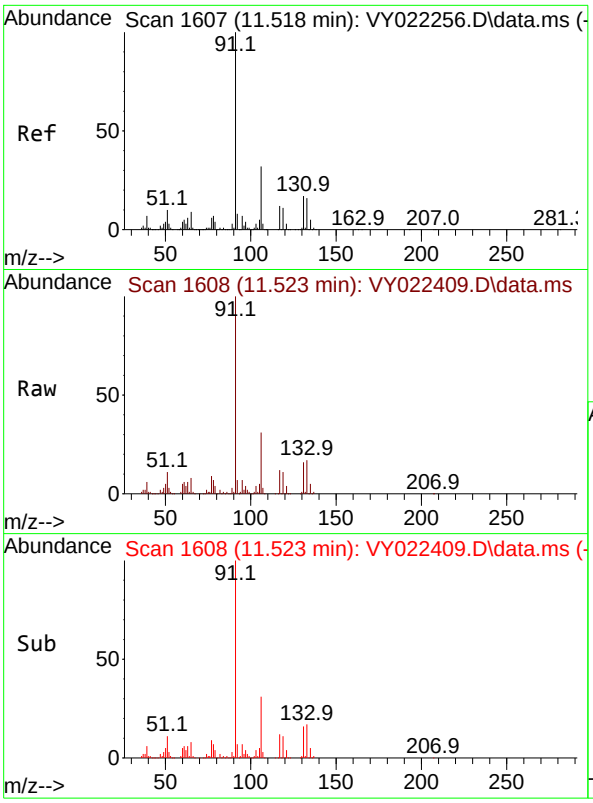


#66
1,1,1,2-Tetrachloroethane
Concen: 20.078 ug/l
RT: 11.517 min Scan# 1607
Delta R.T. -0.000 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion:131 Resp: 47723

Ion	Ratio	Lower	Upper
131	100		
133	94.9	47.3	141.9
119	65.4	33.1	99.2

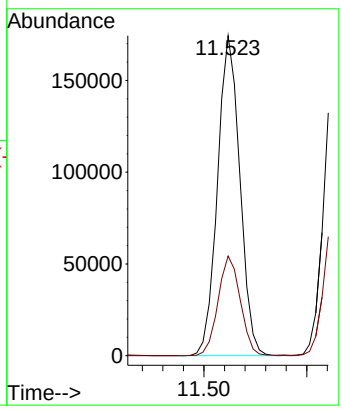




#67
Ethyl Benzene
Concen: 20.286 ug/l
RT: 11.523 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 91 Resp: 26266

Ion	Ratio	Lower	Upper
91	100		
106	31.2	25.4	38.0



Instrument :
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ClientSampleId :
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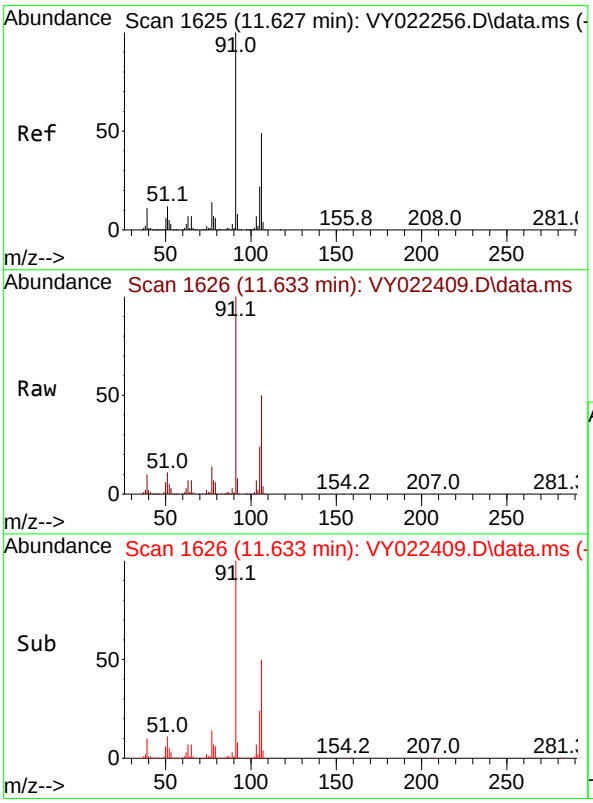
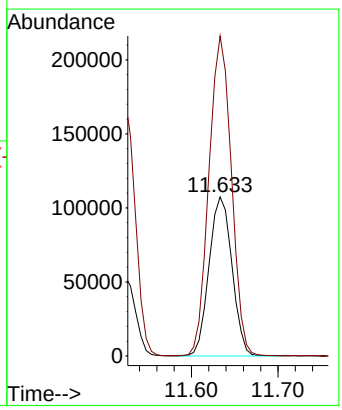
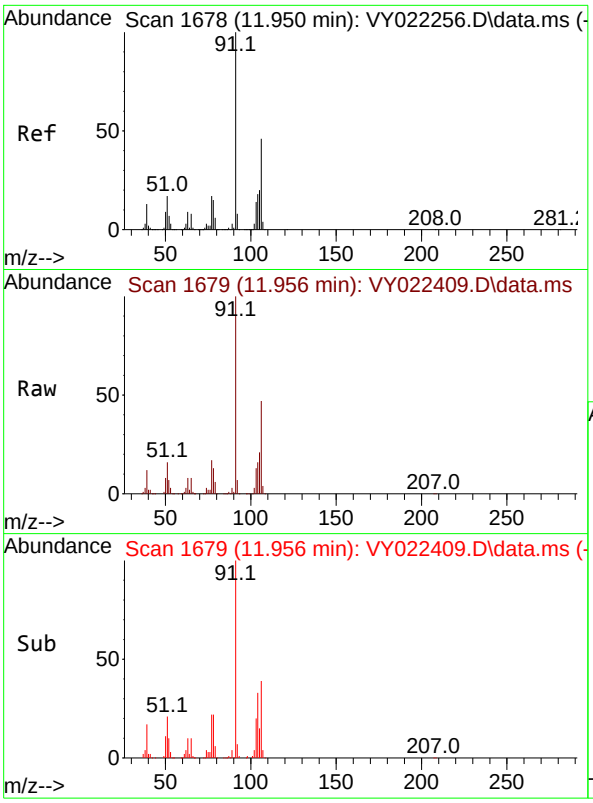


#68
m/p-Xylenes
Concen: 40.555 ug/l
RT: 11.633 min Scan# 1626
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion:106 Resp: 197872

Ion	Ratio	Lower	Upper
106	100		
91	197.5	163.0	244.4

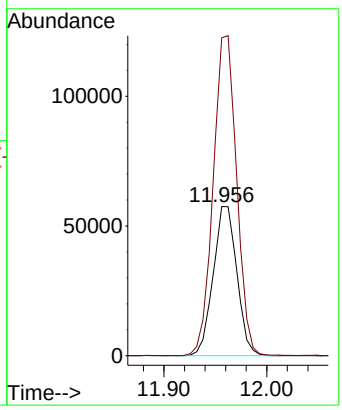




#69
o-Xylene
Concen: 19.908 ug/l
RT: 11.956 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion:106 Resp: 9189

Ion	Ratio	Lower	Upper
106	100		
91	212.8	108.3	324.8



Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

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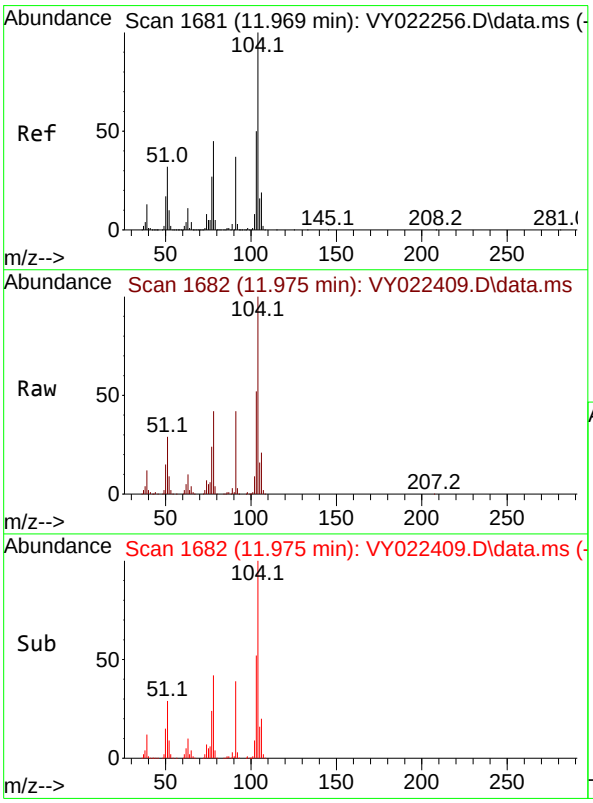
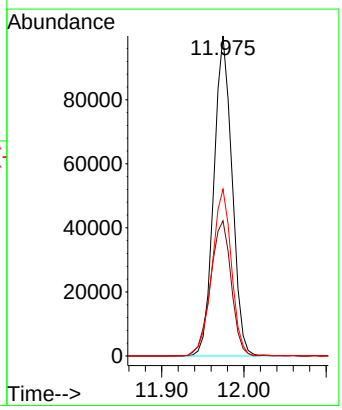
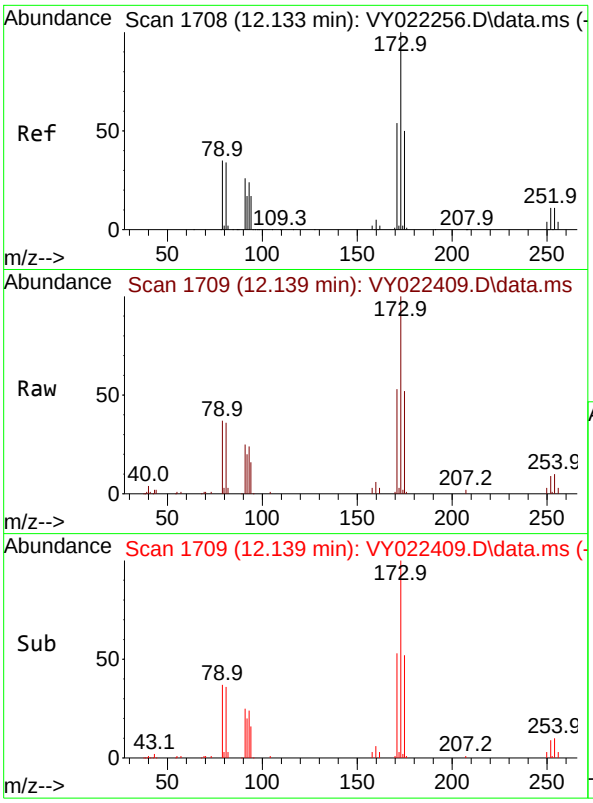


#70
Styrene
Concen: 19.765 ug/l
RT: 11.975 min Scan# 1682
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion:104 Resp: 153910

Ion	Ratio	Lower	Upper
104	100		
78	47.9	40.9	61.3
103	55.7	43.7	65.5

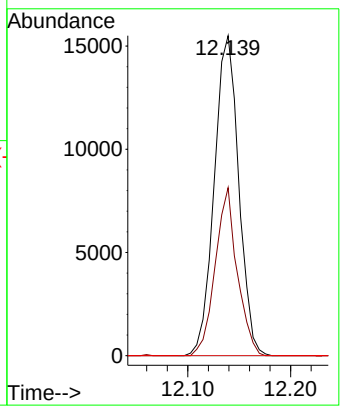




#71
Bromoform
Concen: 19.951 ug/l
RT: 12.139 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion:173 Resp: 2559

Ion	Ratio	Lower	Upper
173	100		
175	47.2	24.7	74.1
254	0.0	0.0	0.0



Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

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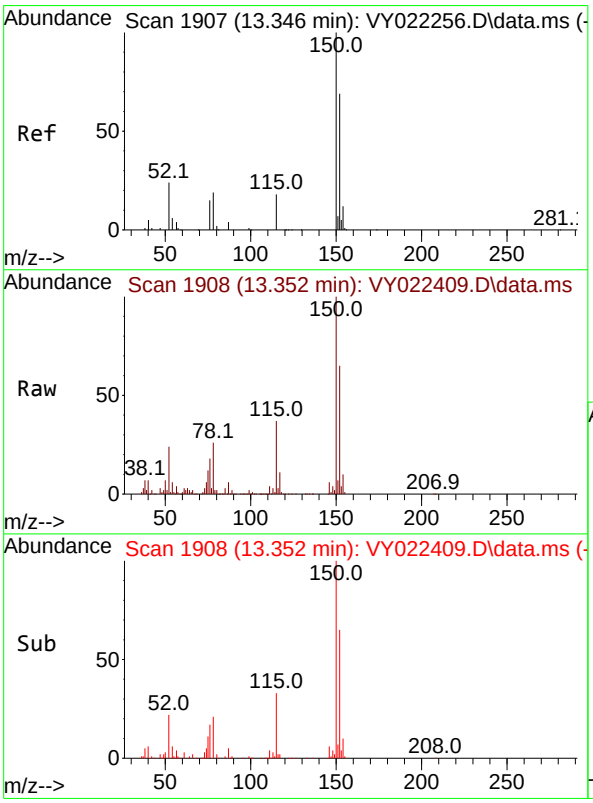
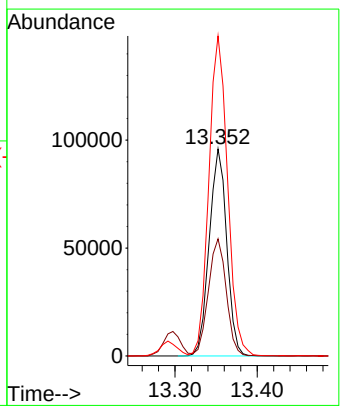
Supervised By :Semsettin Yesilyurt 05/27/2025

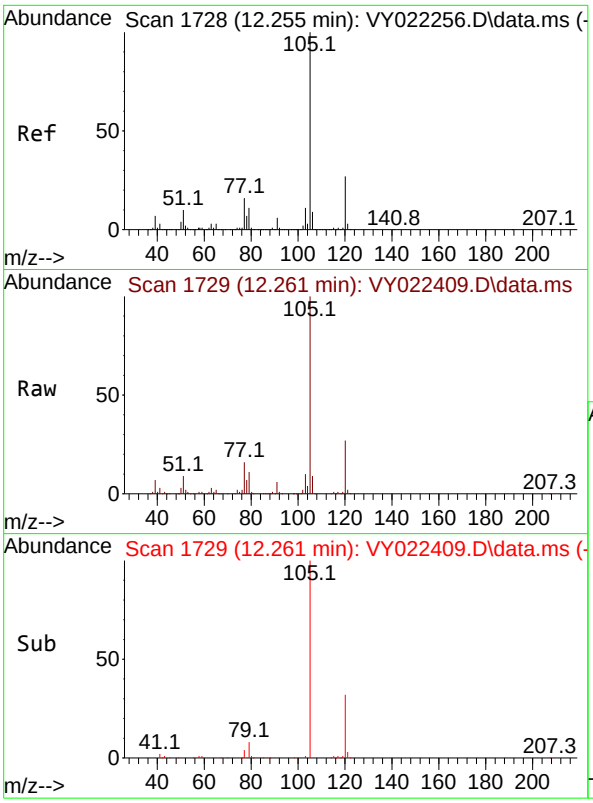


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.352 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion:152 Resp: 141917

Ion	Ratio	Lower	Upper
152	100		
115	57.7	29.4	88.2
150	164.9	0.0	353.8

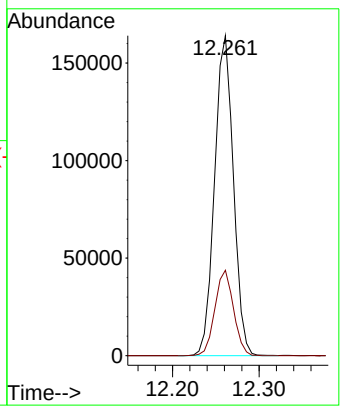




#73
Isopropylbenzene
Concen: 21.034 ug/l
RT: 12.261 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion:105 Resp: 24730

Ion	Ratio	Lower	Upper
105	100		
120	26.4	13.2	39.6



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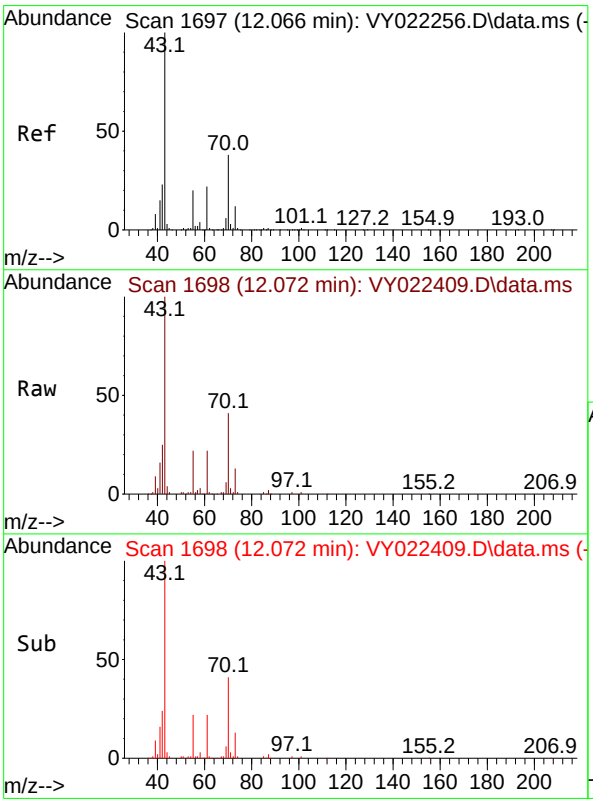
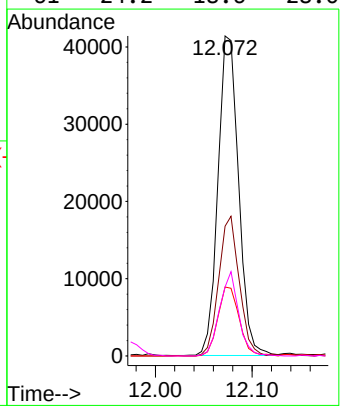
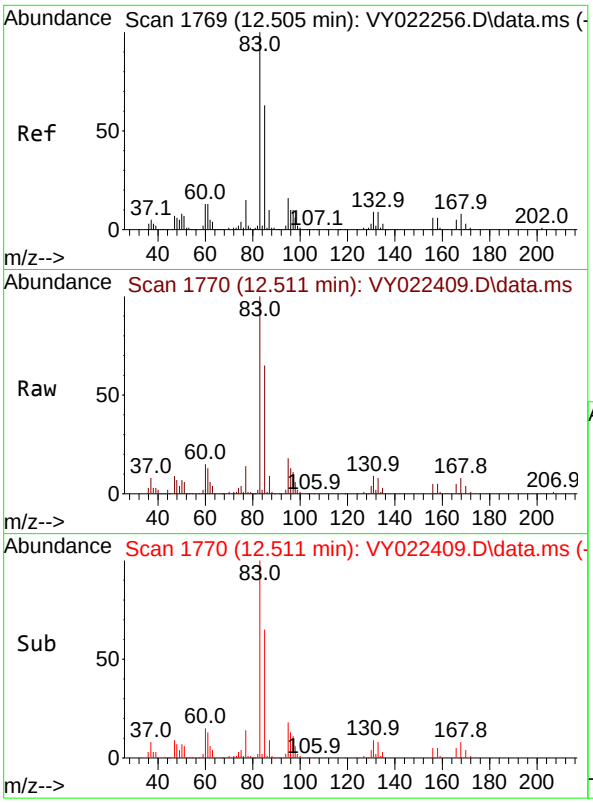


#74
N-amyl acetate
Concen: 18.223 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 43 Resp: 61277

Ion	Ratio	Lower	Upper
43	100		
70	43.4	31.4	47.0
55	22.3	17.0	25.6
61	24.2	18.6	28.0

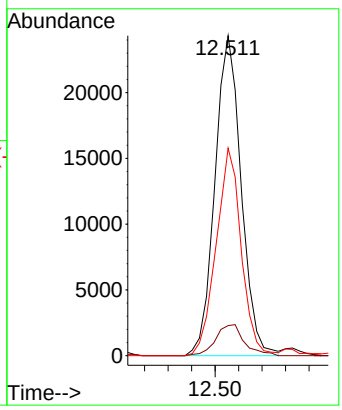




#75
1,1,2,2-Tetrachloroethane
Concen: 20.883 ug/l
RT: 12.511 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 83 Resp: 3775

Ion	Ratio	Lower	Upper
83	100		
131	10.6	4.9	14.7
85	62.0	32.0	96.0



Instrument :
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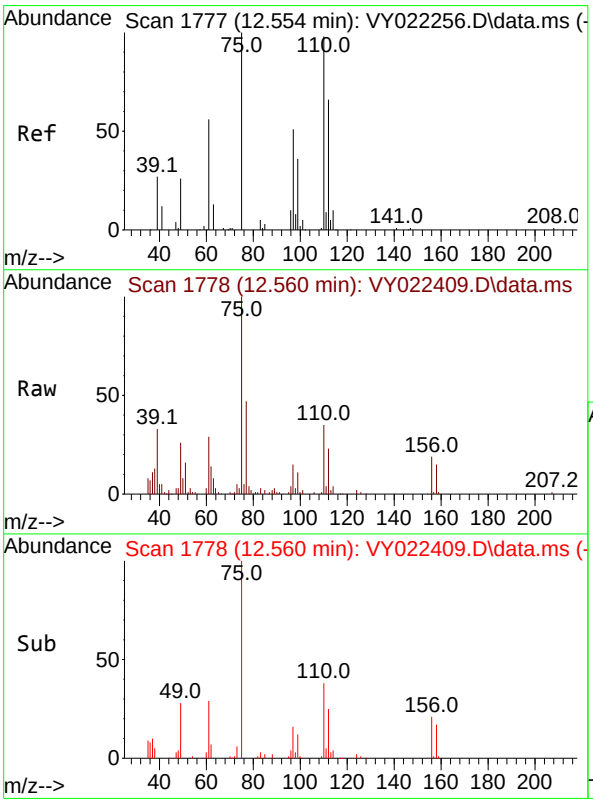
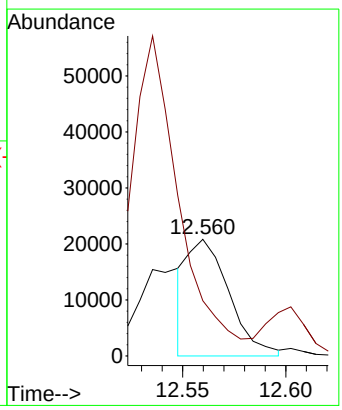
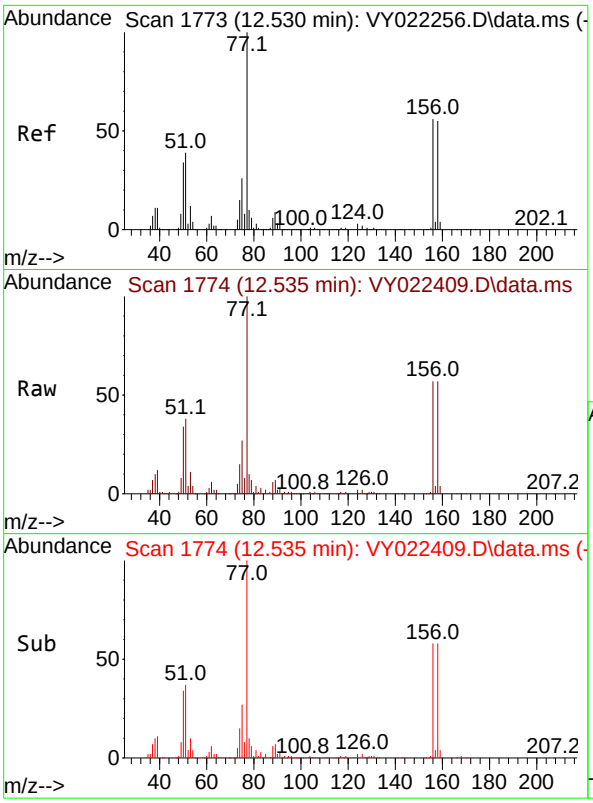


#76
1,2,3-Trichloropropane
Concen: 20.398 ug/l m
RT: 12.560 min Scan# 1778
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 75 Resp: 29327

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

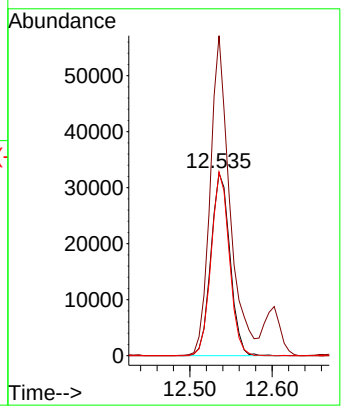




#77
Bromobenzene
Concen: 20.854 ug/l
RT: 12.535 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion:156 Resp: 5236

Ion	Ratio	Lower	Upper
156	100		
77	179.6	94.5	283.6
158	96.3	48.4	145.3



Instrument :
MSVOA_Y
ClientSampleId :
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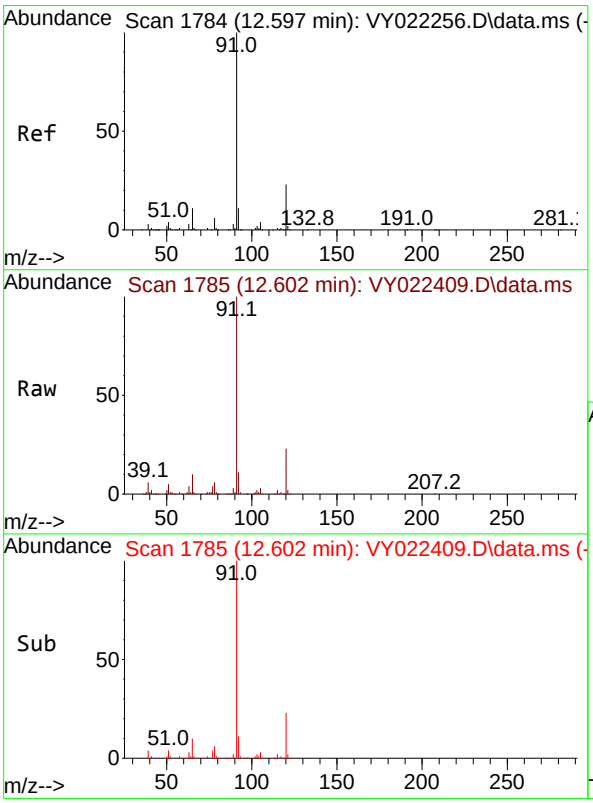
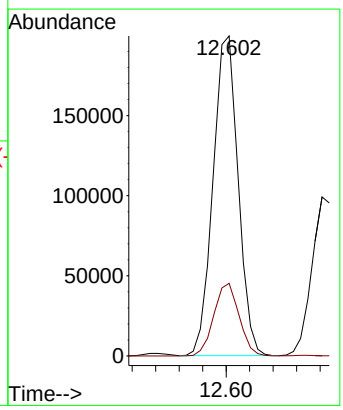
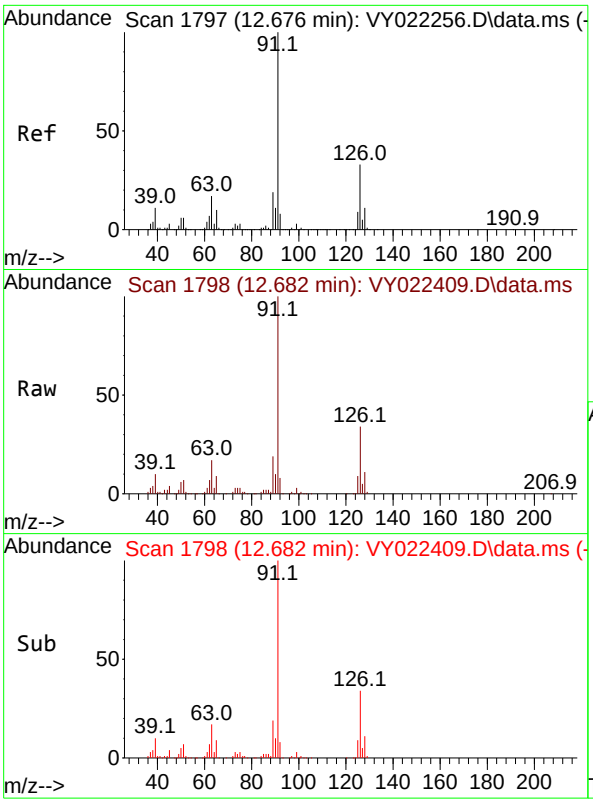


#78
n-propylbenzene
Concen: 20.885 ug/l
RT: 12.602 min Scan# 1785
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 91 Resp: 296181

Ion	Ratio	Lower	Upper
91	100		
120	22.9	11.1	33.3

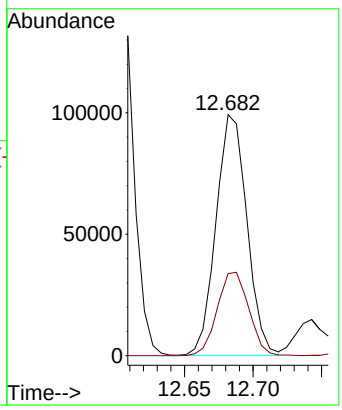




#79
2-Chlorotoluene
Concen: 19.979 ug/l
RT: 12.682 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 91 Resp: 15570

Ion	Ratio	Lower	Upper
91	100		
126	35.3	16.8	50.4



Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

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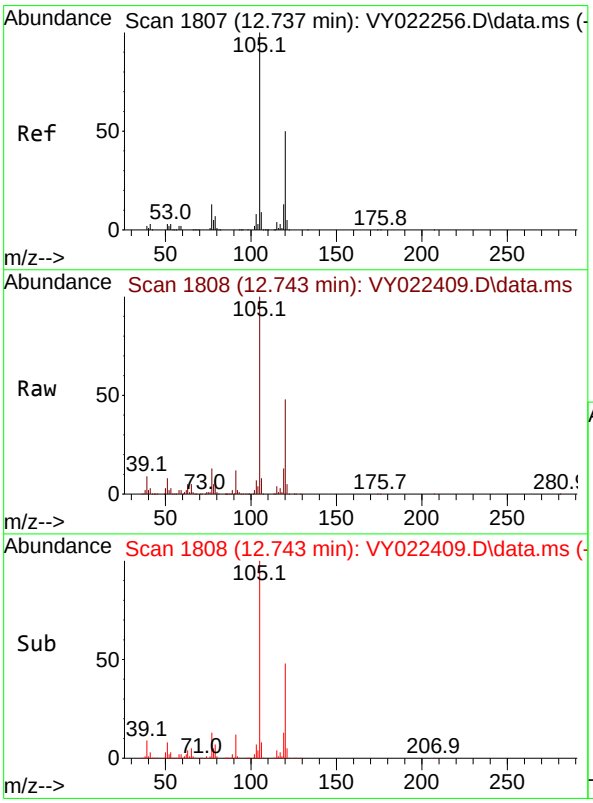
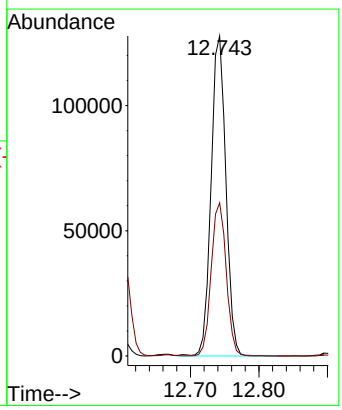
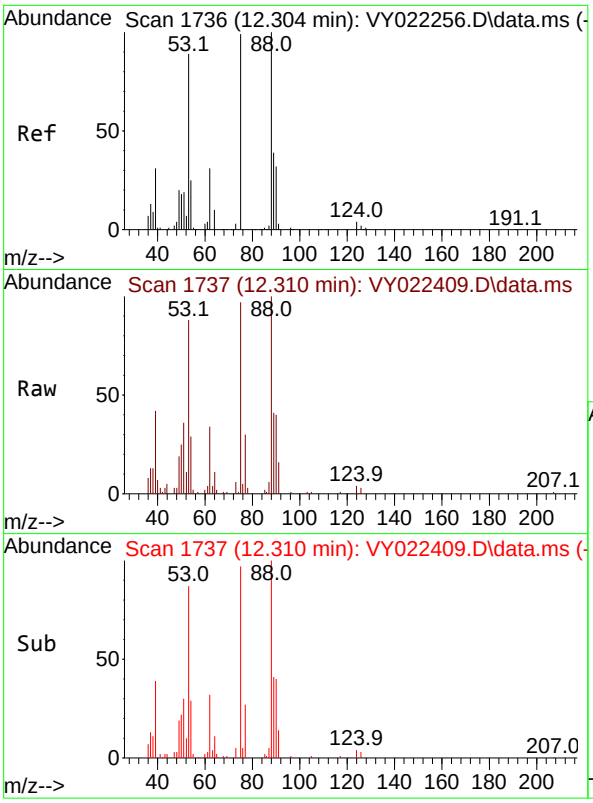


#80
1,3,5-Trimethylbenzene
Concen: 20.182 ug/l
RT: 12.743 min Scan# 1808
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion:105 Resp: 191546

Ion	Ratio	Lower	Upper
105	100		
120	48.7	24.2	72.6





#81
trans-1,4-Dichloro-2-butene
Concen: 18.400 ug/l
RT: 12.310 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 75 Resp: 1305

Ion	Ratio	Lower	Upper
75	100		
53	95.8	75.8	113.8
89	43.4	36.2	54.2

Instrument :
MSVOA_Y
ClientSampleId :
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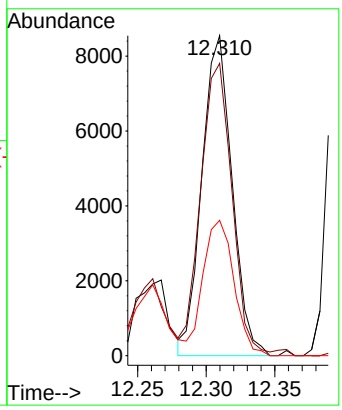
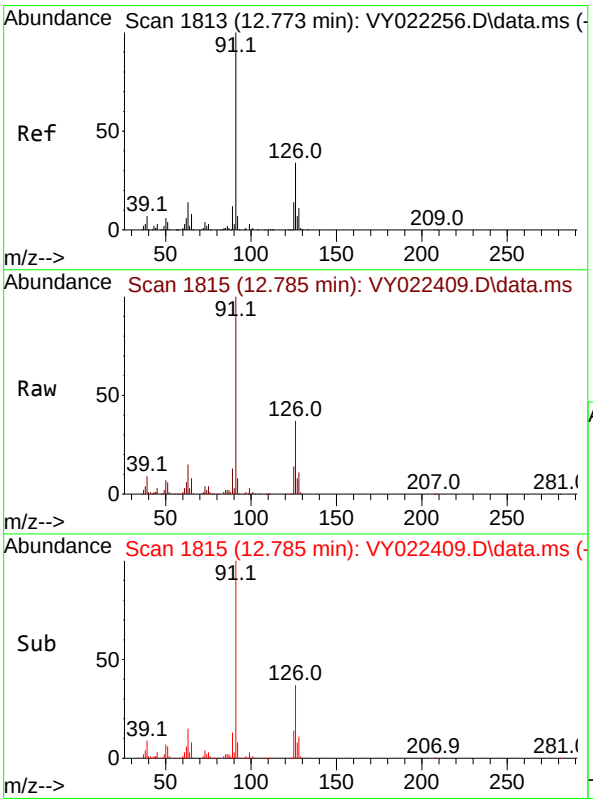
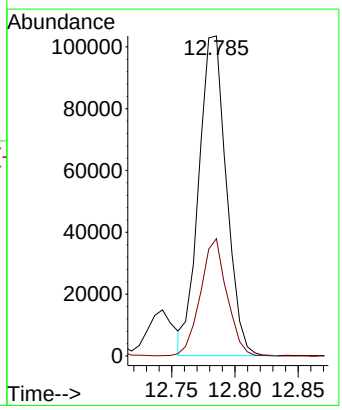


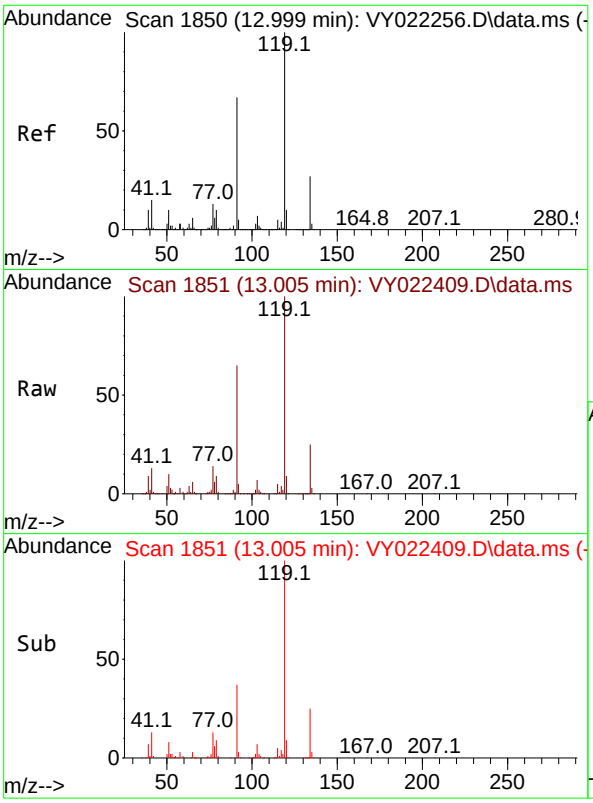


#82
4-Chlorotoluene
Concen: 19.626 ug/l
RT: 12.785 min Scan# 1815
Delta R.T. 0.012 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 91 Resp: 157322

Ion	Ratio	Lower	Upper
91	100		
126	35.2	16.8	50.4

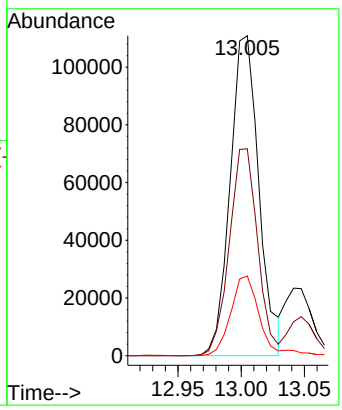




#83
tert-Butylbenzene
Concen: 20.841 ug/l
RT: 13.005 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion:119 Resp: 17580

Ion	Ratio	Lower	Upper
119	100		
91	63.8	32.8	98.3
134	25.2	12.9	38.6



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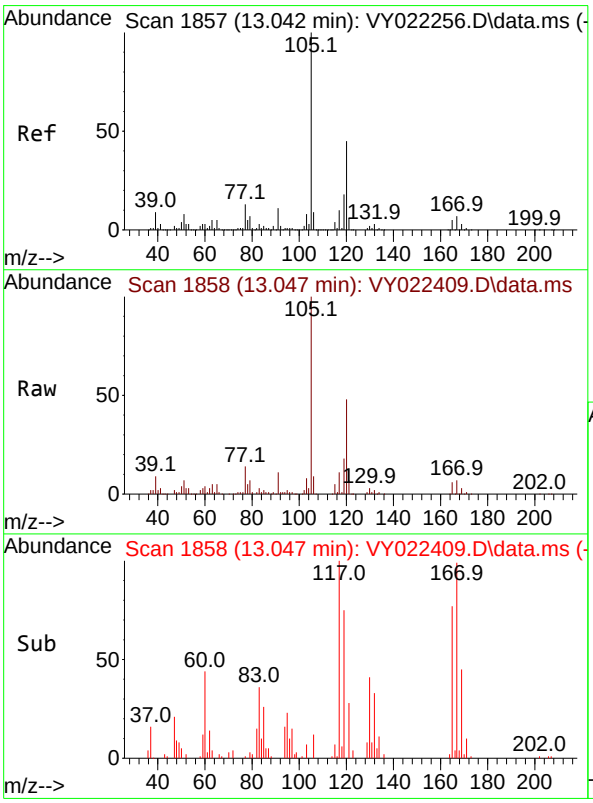
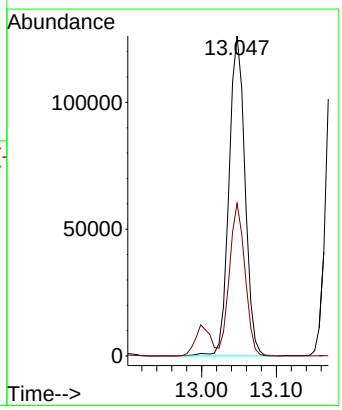
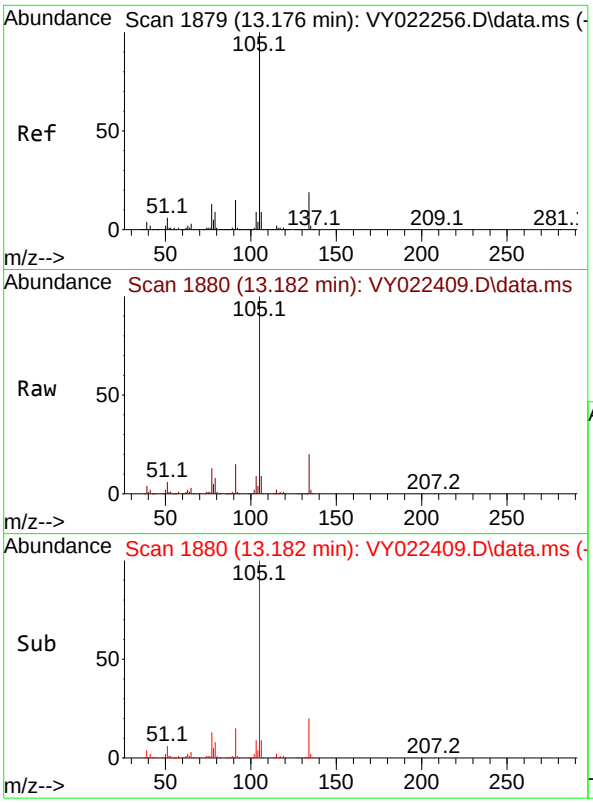


#84
1,2,4-Trimethylbenzene
Concen: 19.994 ug/l
RT: 13.047 min Scan# 1858
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion:105 Resp: 188374

Ion	Ratio	Lower	Upper
105	100		
120	46.0	22.3	66.9

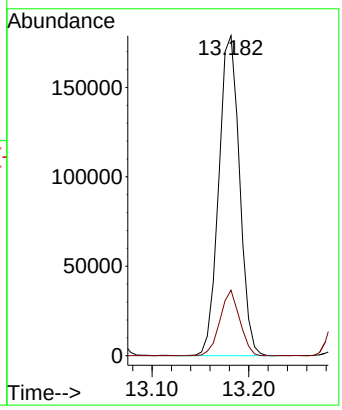




#85
sec-Butylbenzene
Concen: 21.275 ug/l
RT: 13.182 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion:105 Resp: 26640

Ion	Ratio	Lower	Upper
105	100		
134	19.5	9.8	29.5



Instrument :
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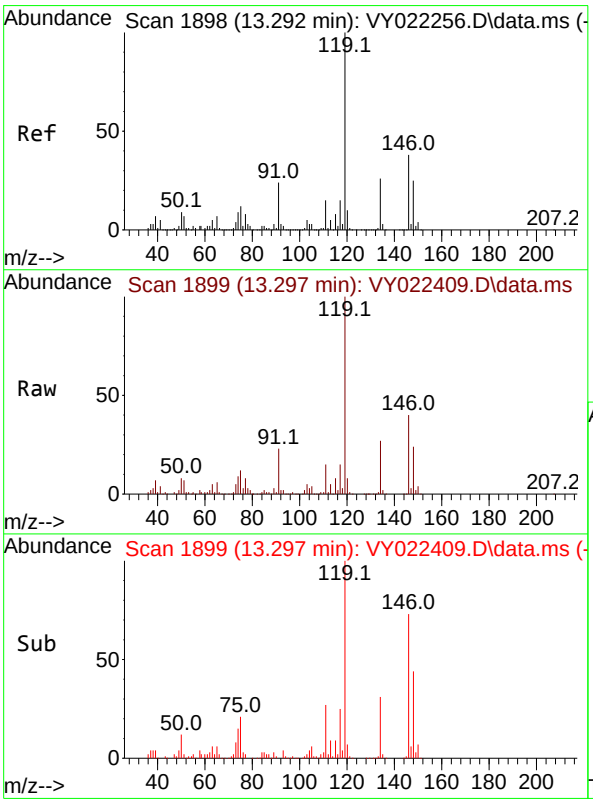
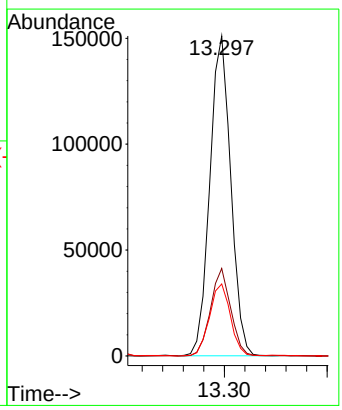
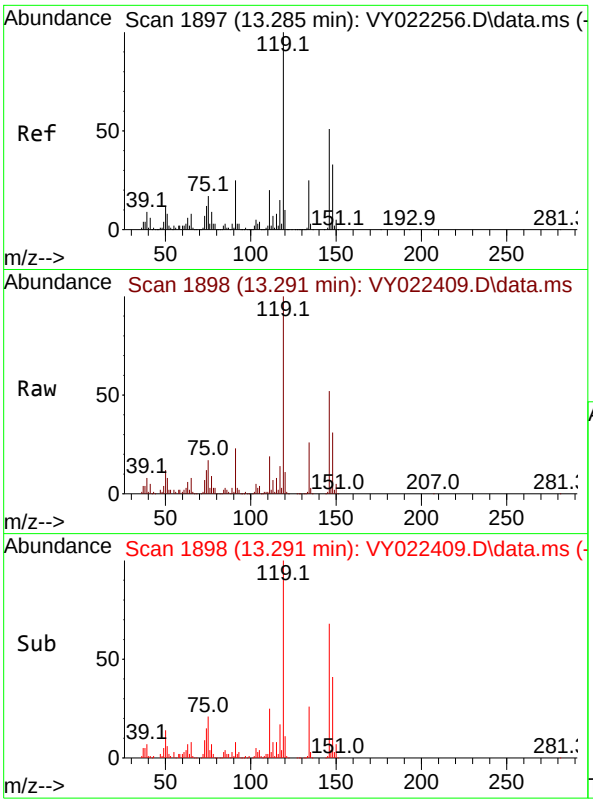


#86
p-Isopropyltoluene
Concen: 20.291 ug/l
RT: 13.297 min Scan# 1899
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion:119 Resp: 213699

Ion	Ratio	Lower	Upper
119	100		
134	26.4	12.9	38.6
91	22.6	12.1	36.3





#87
1,3-Dichlorobenzene
Concen: 20.186 ug/l
RT: 13.291 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion:146 Resp: 10347

Ion	Ratio	Lower	Upper
146	100		
111	38.4	19.9	59.7
148	61.8	31.9	95.7

Instrument :
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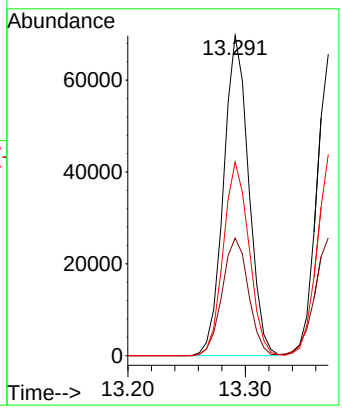
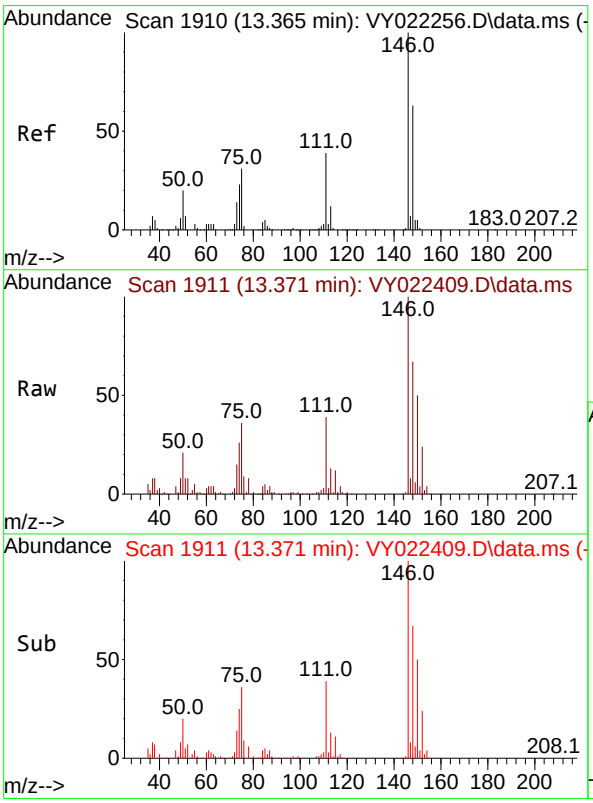
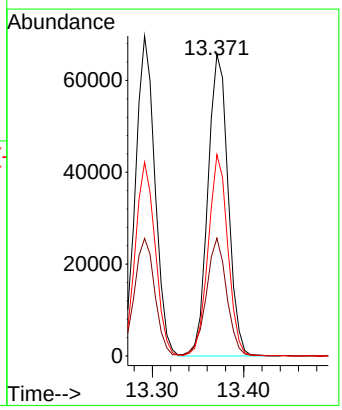


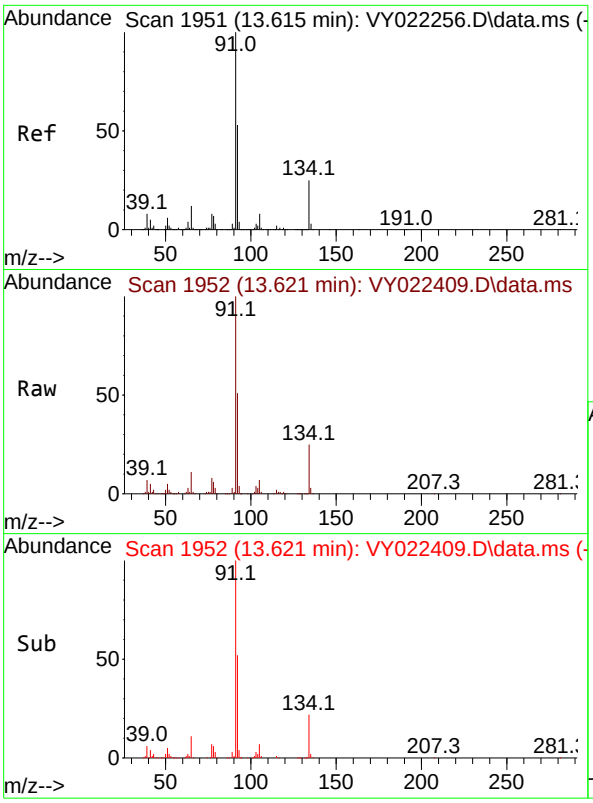


#88
1,4-Dichlorobenzene
Concen: 20.483 ug/l
RT: 13.371 min Scan# 1911
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion:146 Resp: 100997

Ion	Ratio	Lower	Upper
146	100		
111	39.6	20.0	59.9
148	64.9	32.1	96.5

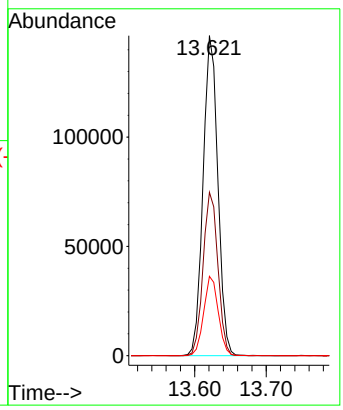




#89
n-Butylbenzene
Concen: 21.095 ug/l
RT: 13.621 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 91 Resp: 21017

Ion	Ratio	Lower	Upper
91	100		
92	51.1	26.3	78.9
134	24.6	12.4	37.4



Instrument :
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ClientSampleId :
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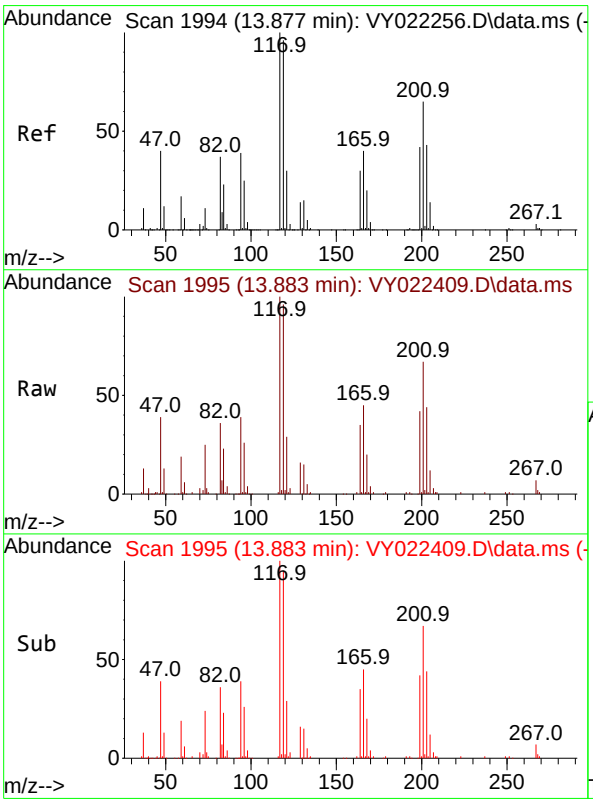
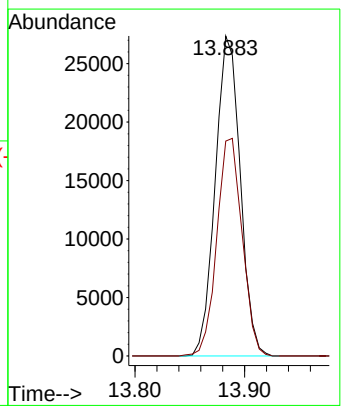
Reviewed By :Mahesh Dadoda 05/27/2025
Supervised By :Semsettin Yesilyurt 05/27/2025

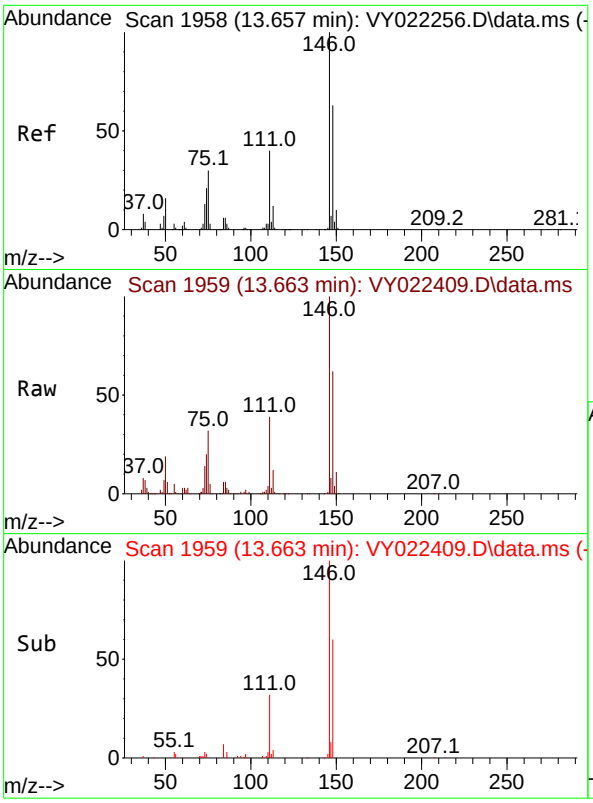


#90
Hexachloroethane
Concen: 20.378 ug/l
RT: 13.883 min Scan# 1995
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion:117 Resp: 43322

Ion	Ratio	Lower	Upper
117	100		
201	68.9	35.2	105.6

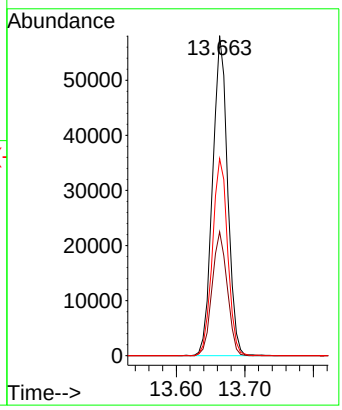




#91
1,2-Dichlorobenzene
Concen: 20.520 ug/l
RT: 13.663 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion:146 Resp: 8835

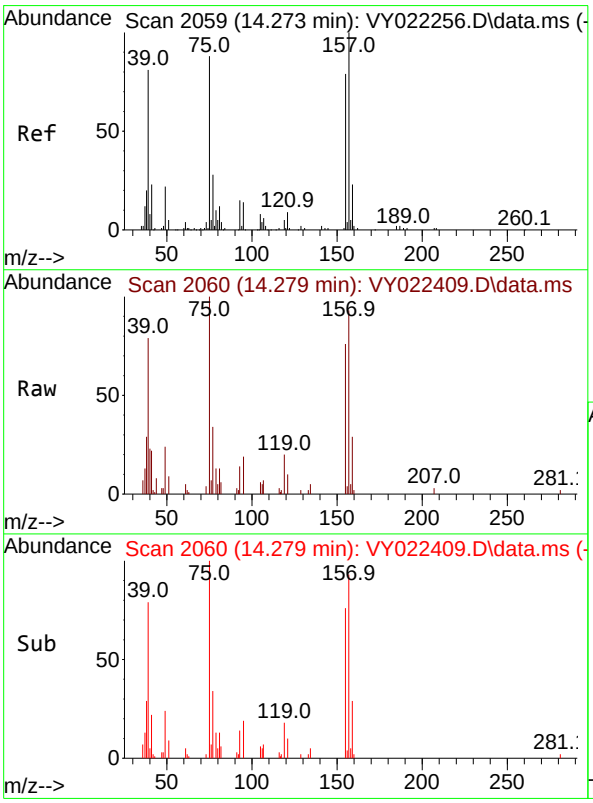
Ion	Ratio	Lower	Upper
146	100		
111	39.0	20.5	61.5
148	62.4	32.0	96.0



Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

Manual Integrations
APPROVED

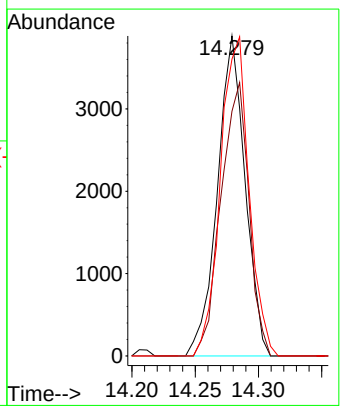
Reviewed By :Mahesh Dadoda 05/27/2025
Supervised By :Semsettin Yesilyurt 05/27/2025

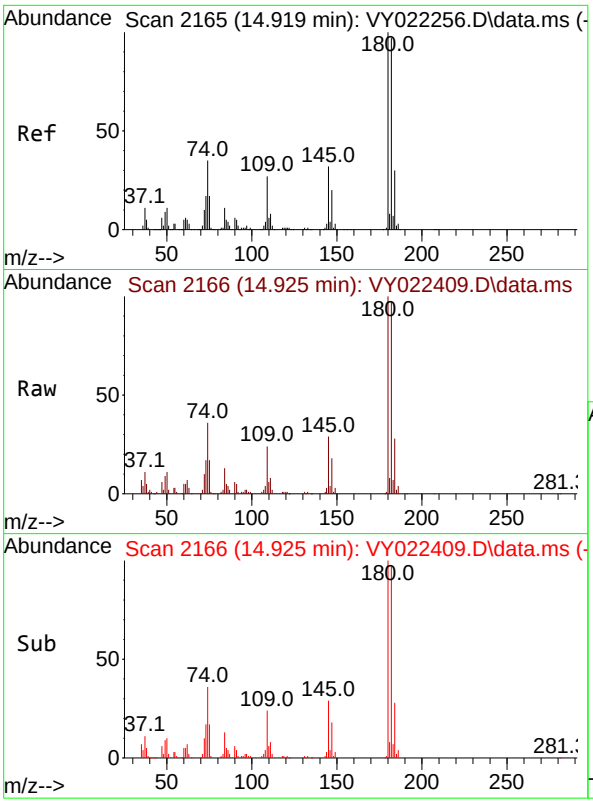


#92
1,2-Dibromo-3-Chloropropane
Concen: 20.294 ug/l
RT: 14.279 min Scan# 2060
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 75 Resp: 5917

Ion	Ratio	Lower	Upper
75	100		
155	86.2	43.4	130.1
157	102.6	54.6	163.9

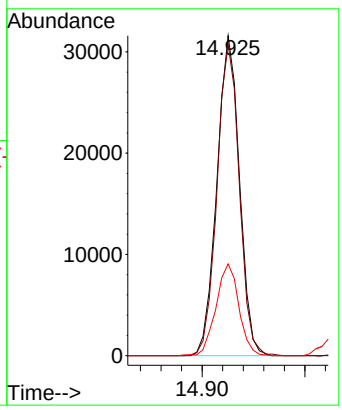




#93
1,2,4-Trichlorobenzene
Concen: 19.290 ug/l
RT: 14.925 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion:180 Resp: 4797

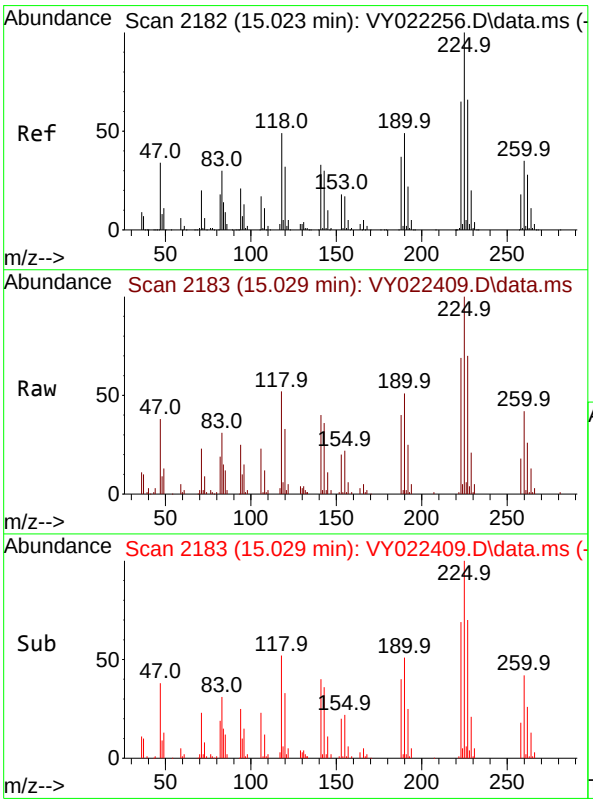
Ion	Ratio	Lower	Upper
180	100		
182	96.2	48.0	144.0
145	29.1	15.0	45.1



Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

Manual Integrations
APPROVED

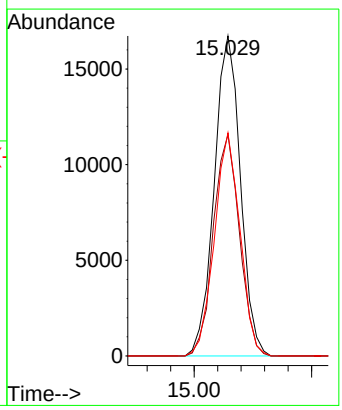
Reviewed By :Mahesh Dadoda 05/27/2025
Supervised By :Semsettin Yesilyurt 05/27/2025

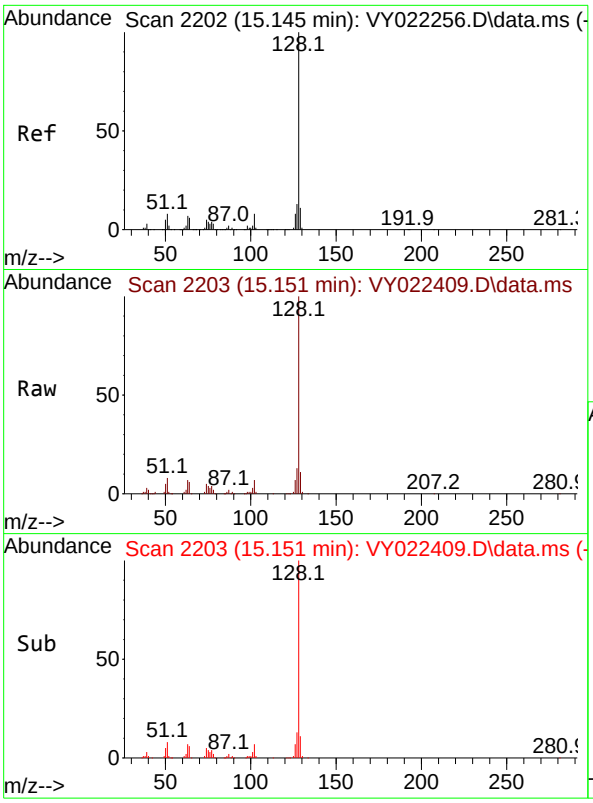


#94
Hexachlorobutadiene
Concen: 18.673 ug/l
RT: 15.029 min Scan# 2183
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion:225 Resp: 25900

Ion	Ratio	Lower	Upper
225	100		
223	68.9	31.5	94.5
227	68.0	32.1	96.3

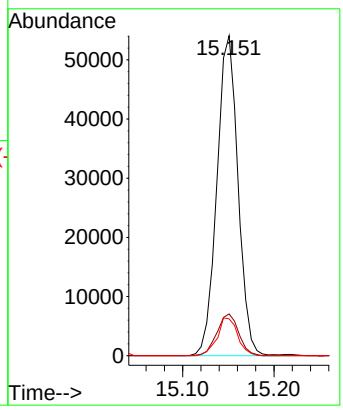




#95
Naphthalene
Concen: 18.405 ug/l
RT: 15.151 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion:128 Resp: 8687

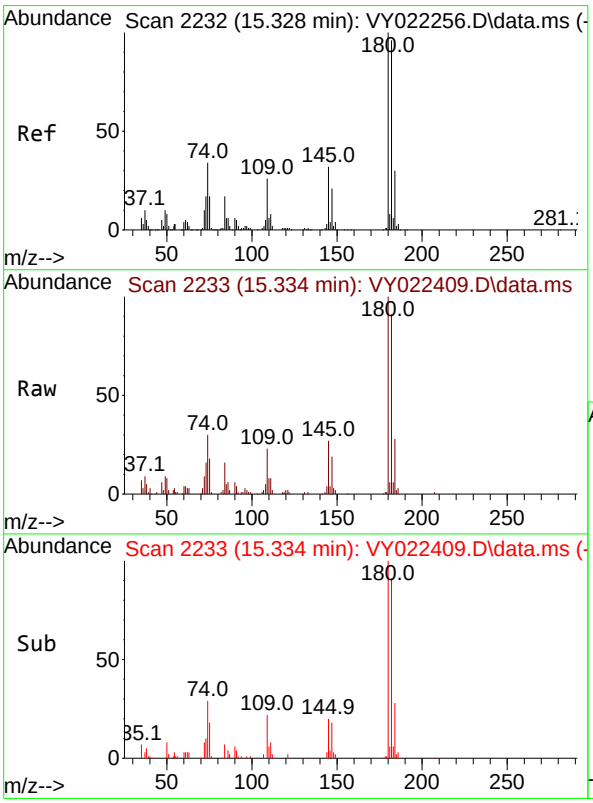
Ion	Ratio	Lower	Upper
128	100		
127	13.5	10.2	15.2
129	11.4	8.8	13.2



Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

Manual Integrations
APPROVED

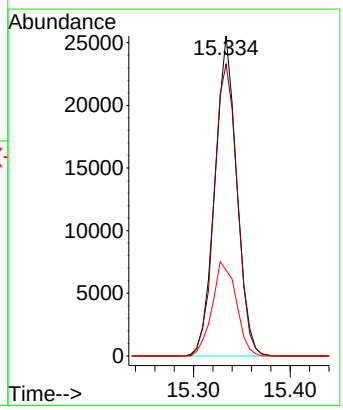
Reviewed By :Mahesh Dadoda 05/27/2025
Supervised By :Semsettin Yesilyurt 05/27/2025



#96
1,2,3-Trichlorobenzene
Concen: 18.993 ug/l
RT: 15.334 min Scan# 2233
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion:180 Resp: 40075

Ion	Ratio	Lower	Upper
180	100		
182	96.5	47.1	141.3
145	32.3	15.9	47.6



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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	VY0527SBS01	SDG No.:	Q2118
Lab Sample ID:	VY0527SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022430.D	1		05/27/25 13:35	VY052725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
74-87-3	Chloromethane	24.6		1.10	2.50	5.00	ug/Kg
75-01-4	Vinyl Chloride	22.2		0.79	2.50	5.00	ug/Kg
74-83-9	Bromomethane	24.5		1.10	4.00	5.00	ug/Kg
75-00-3	Chloroethane	23.5		1.30	2.50	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	23.3		1.20	4.00	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	21.8		1.10	2.50	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	21.4		1.00	2.50	5.00	ug/Kg
67-64-1	Acetone	97.6		4.70	20.0	25.0	ug/Kg
75-15-0	Carbon Disulfide	21.3		1.10	4.00	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	21.0		0.73	2.50	5.00	ug/Kg
75-09-2	Methylene Chloride	20.7		3.50	8.00	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	21.4		0.86	2.50	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	21.6		0.80	2.50	5.00	ug/Kg
78-93-3	2-Butanone	100		6.50	20.0	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	20.1		0.97	2.50	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	21.8		0.75	2.50	5.00	ug/Kg
67-66-3	Chloroform	21.7		0.84	4.00	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	21.4		0.93	2.50	5.00	ug/Kg
108-87-2	Methylcyclohexane	19.9		0.91	2.50	5.00	ug/Kg
71-43-2	Benzene	20.9		0.79	2.50	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	20.9		0.79	2.50	5.00	ug/Kg
79-01-6	Trichloroethene	20.2		0.81	2.50	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	20.9		0.91	2.50	5.00	ug/Kg
75-27-4	Bromodichloromethane	20.7		0.78	2.50	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	99.2		3.60	12.5	25.0	ug/Kg
108-88-3	Toluene	20.6		0.78	2.50	5.00	ug/Kg
10061-02-6	t-1,3-Dichloropropene	20.1		0.65	2.50	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	20.3		0.62	2.50	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	20.7		0.92	2.50	5.00	ug/Kg
591-78-6	2-Hexanone	97.5		3.70	12.5	25.0	ug/Kg

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	VY0527SBS01	SDG No.:	Q2118
Lab Sample ID:	VY0527SBS01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022430.D	1		05/27/25 13:35	VY052725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
124-48-1	Dibromochloromethane	20.7		0.87	2.50	5.00	ug/Kg
127-18-4	Tetrachloroethene	19.9		1.10	2.50	5.00	ug/Kg
108-90-7	Chlorobenzene	20.3		0.91	2.50	5.00	ug/Kg
100-41-4	Ethyl Benzene	19.7		0.67	2.50	5.00	ug/Kg
179601-23-1	m/p-Xylenes	39.3		1.20	5.00	10.0	ug/Kg
95-47-6	o-Xylene	19.8		0.82	2.50	5.00	ug/Kg
100-42-5	Styrene	20.0		0.71	2.50	5.00	ug/Kg
75-25-2	Bromoform	20.0		0.86	2.50	5.00	ug/Kg
98-82-8	Isopropylbenzene	20.4		0.78	2.50	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	20.6		1.20	2.50	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	19.7		1.70	2.50	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	20.5		1.60	2.50	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	20.7		1.50	2.50	5.00	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	52.0		71 - 136		104%	SPK: 50
1868-53-7	Dibromofluoromethane	51.1		78 - 119		102%	SPK: 50
2037-26-5	Toluene-d8	50.2		85 - 116		100%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.6		79 - 119		97%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	230000	7.707				
540-36-3	1,4-Difluorobenzene	399000	8.616				
3114-55-4	Chlorobenzene-d5	340000	11.414				
3855-82-1	1,4-Dichlorobenzene-d4	156000	13.347				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022430.D
Acq On : 27 May 2025 13:35
Operator : SY/MD
Sample : VY0527SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 28 11:20:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

Manual Integrations APPROVED
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	230468	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	399143	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	340460	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	155764	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	126153	51.967	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 103.940%			
35) Dibromofluoromethane	7.634	113	119363	51.064	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 102.120%			
50) Toluene-d8	10.103	98	478633	50.229	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 100.460%			
62) 4-Bromofluorobenzene	12.402	95	139946	48.553	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 97.100%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.861	85	48906	22.242	ug/l	95
3) Chloromethane	2.068	50	133284	24.643	ug/l	100
4) Vinyl Chloride	2.202	62	146083	22.233	ug/l	98
5) Bromomethane	2.592	94	146140	24.475	ug/l	97
6) Chloroethane	2.733	64	100853	23.489	ug/l	97
7) Trichlorofluoromethane	3.050	101	129189	23.304	ug/l	99
8) Diethyl Ether	3.458	74	28054	21.947	ug/l	97
9) 1,1,2-Trichlorotrifluo...	3.812	101	52971	21.780	ug/l	98
10) Methyl Iodide	4.001	142	52498	19.133	ug/l	99
11) Tert butyl alcohol	4.879	59	17417	101.788	ug/l #	84
12) 1,1-Dichloroethene	3.787	96	51748	21.431	ug/l	93
13) Acrolein	3.653	56	26027	101.515	ug/l	97
14) Allyl chloride	4.379	41	76669	21.108	ug/l	98
15) Acrylonitrile	5.061	53	54240	105.272	ug/l	98
16) Acetone	3.873	43	38917	97.560	ug/l	92
17) Carbon Disulfide	4.104	76	164494	21.347	ug/l	99
18) Methyl Acetate	4.391	43	36478	24.412	ug/l	96
19) Methyl tert-butyl Ether	5.122	73	134624	21.000	ug/l	100
20) Methylene Chloride	4.616	84	58197	20.660	ug/l	95
21) trans-1,2-Dichloroethene	5.110	96	56538	21.447	ug/l	98
22) Diisopropyl ether	6.019	45	173680	21.665	ug/l	98
23) Vinyl Acetate	5.958	43	465656	101.165	ug/l	99
24) 1,1-Dichloroethane	5.915	63	102108	21.556	ug/l	99
25) 2-Butanone	6.896	43	66547	100.170	ug/l	99
26) 2,2-Dichloropropane	6.884	77	89103	20.774	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	66528	21.800	ug/l	98
28) Bromochloromethane	7.250	49	42697	21.586	ug/l	98
29) Tetrahydrofuran	7.262	42	46559	105.084	ug/l	97
30) Chloroform	7.421	83	101394	21.723	ug/l	98
31) Cyclohexane	7.701	56	93643	20.054	ug/l #	93
32) 1,1,1-Trichloroethane	7.616	97	90476	21.358	ug/l	100
36) 1,1-Dichloropropene	7.835	75	74812	20.169	ug/l	100
37) Ethyl Acetate	6.982	43	32652	20.713	ug/l	99
38) Carbon Tetrachloride	7.817	117	77697	20.108	ug/l	97
39) Methylcyclohexane	9.109	83	98231	19.923	ug/l	99
40) Benzene	8.079	78	230138	20.851	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022430.D
Acq On : 27 May 2025 13:35
Operator : SY/MD
Sample : VY0527SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 28 11:20:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

Manual Integrations APPROVED
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.220	41	21986m	22.980	ug/l		
42) 1,2-Dichloroethane	8.158	62	60983	20.920	ug/l		99
43) Isopropyl Acetate	8.195	43	69531	20.185	ug/l		99
44) Trichloroethene	8.866	130	55229	20.242	ug/l		99
45) 1,2-Dichloropropane	9.140	63	54068	20.850	ug/l		99
46) Dibromomethane	9.231	93	29341	20.254	ug/l		99
47) Bromodichloromethane	9.420	83	76948	20.656	ug/l		100
48) Methyl methacrylate	9.219	41	32772	20.495	ug/l		98
49) 1,4-Dioxane	9.231	88	6738	421.110	ug/l	#	95
51) 4-Methyl-2-Pentanone	10.000	43	168616	99.209	ug/l		99
52) Toluene	10.170	92	142314	20.644	ug/l		100
53) t-1,3-Dichloropropene	10.390	75	69585	20.054	ug/l		99
54) cis-1,3-Dichloropropene	9.859	75	82670	20.276	ug/l		97
55) 1,1,2-Trichloroethane	10.573	97	37845	20.663	ug/l		98
56) Ethyl methacrylate	10.438	69	52031	19.796	ug/l		100
57) 1,3-Dichloropropane	10.719	76	66285	20.537	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.713	63	129124	98.573	ug/l		100
59) 2-Hexanone	10.762	43	108584	97.487	ug/l		97
60) Dibromochloromethane	10.908	129	48358	20.669	ug/l		100
61) 1,2-Dibromoethane	11.012	107	34056	20.330	ug/l		97
64) Tetrachloroethene	10.646	164	57716	19.905	ug/l		95
65) Chlorobenzene	11.438	112	147244	20.283	ug/l		97
66) 1,1,1,2-Tetrachloroethane	11.511	131	49061	19.946	ug/l		98
67) Ethyl Benzene	11.518	91	265605	19.704	ug/l		100
68) m/p-Xylenes	11.627	106	200646	39.260	ug/l		98
69) o-Xylene	11.957	106	95157	19.811	ug/l		100
70) Styrene	11.969	104	159948	19.999	ug/l		99
71) Bromoform	12.133	173	25744	19.982	ug/l	#	96
73) Isopropylbenzene	12.255	105	250558	20.438	ug/l		99
74) N-amyl acetate	12.066	43	57558	19.188	ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.505	83	39835	20.624	ug/l		100
76) 1,2,3-Trichloropropane	12.554	75	28660m	18.369	ug/l		
77) Bromobenzene	12.530	156	53210	20.170	ug/l		98
78) n-propylbenzene	12.591	91	298731	20.305	ug/l		99
79) 2-Chlorotoluene	12.676	91	160337	20.133	ug/l		99
80) 1,3,5-Trimethylbenzene	12.737	105	194158	20.270	ug/l		98
81) trans-1,4-Dichloro-2-b...	12.298	75	13162	19.077	ug/l		94
82) 4-Chlorotoluene	12.773	91	165029	20.120	ug/l		99
83) tert-Butylbenzene	12.999	119	176391	20.382	ug/l		99
84) 1,2,4-Trimethylbenzene	13.042	105	195735	20.306	ug/l		100
85) sec-Butylbenzene	13.176	105	264497	20.608	ug/l		100
86) p-Isopropyltoluene	13.292	119	213252	19.898	ug/l		100
87) 1,3-Dichlorobenzene	13.286	146	104797	19.743	ug/l		98
88) 1,4-Dichlorobenzene	13.365	146	104056	20.501	ug/l		97
89) n-Butylbenzene	13.615	91	204753	20.376	ug/l		99
90) Hexachloroethane	13.877	117	44745	20.980	ug/l		96
91) 1,2-Dichlorobenzene	13.657	146	91980	20.746	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	5660	18.964	ug/l		96
93) 1,2,4-Trichlorobenzene	14.919	180	51786	21.069	ug/l		100
94) Hexachlorobutadiene	15.023	225	27978	21.690	ug/l		97
95) Naphthalene	15.139	128	92664	20.393	ug/l		100
96) 1,2,3-Trichlorobenzene	15.328	180	43102	21.382	ug/l		98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022430.D
Acq On : 27 May 2025 13:35
Operator : SY/MD
Sample : VY0527SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 28 11:20:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

Manual Integrations APPROVED

Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022430.D
Acq On : 27 May 2025 13:35
Operator : SY/MD
Sample : VY0527SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 28 11:20:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

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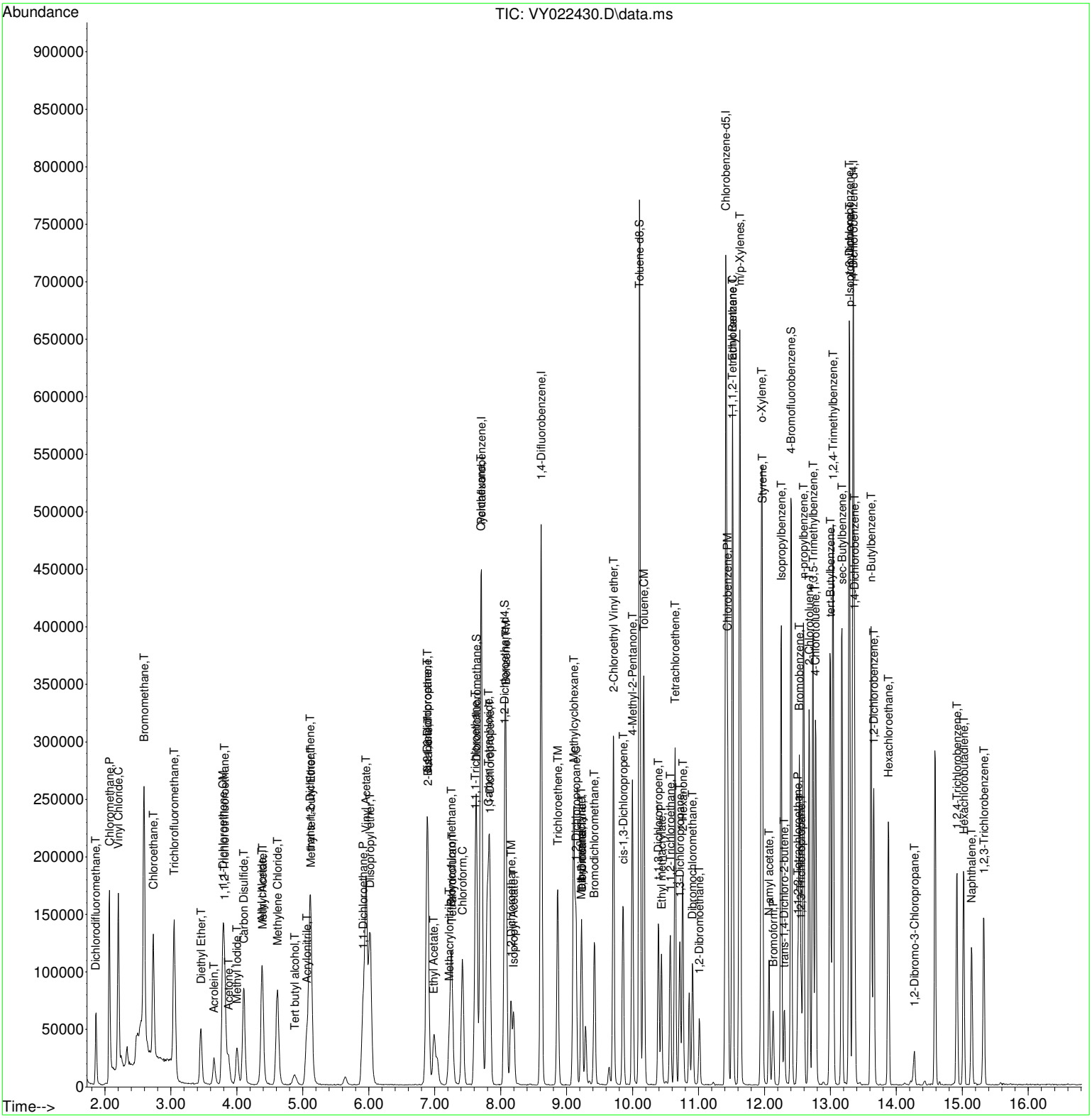

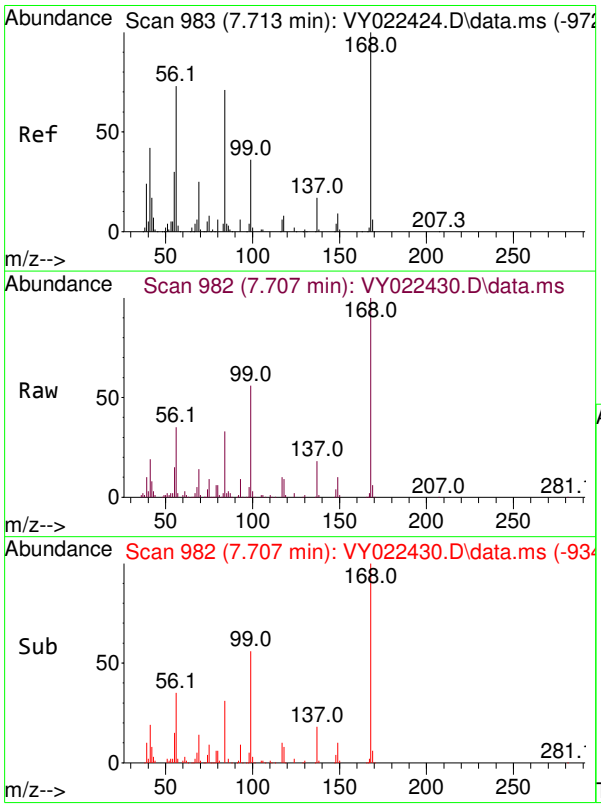

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion:168 Resp: 23046

Ion	Ratio	Lower	Upper
168	100		
99	56.3	44.7	67.1

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

Manual Integrations
APPROVED

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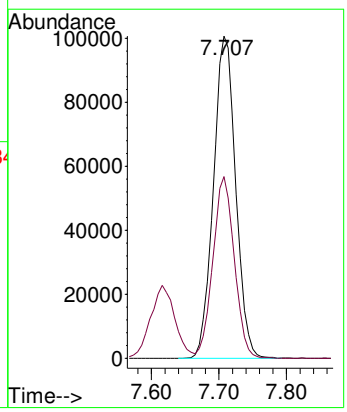
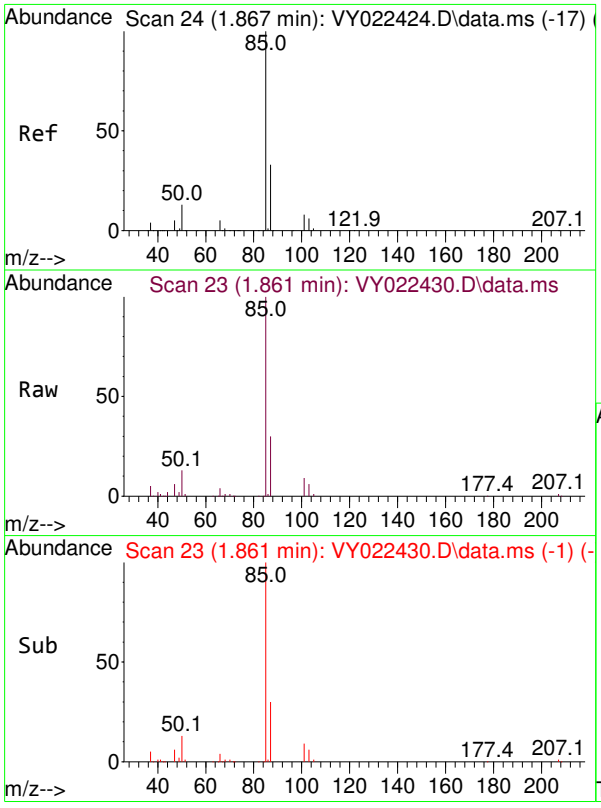
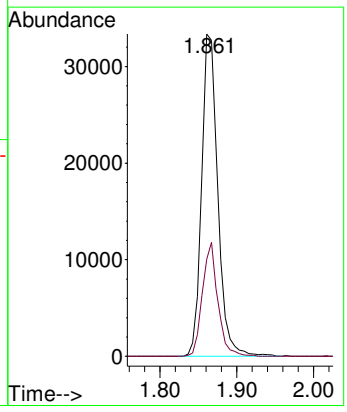


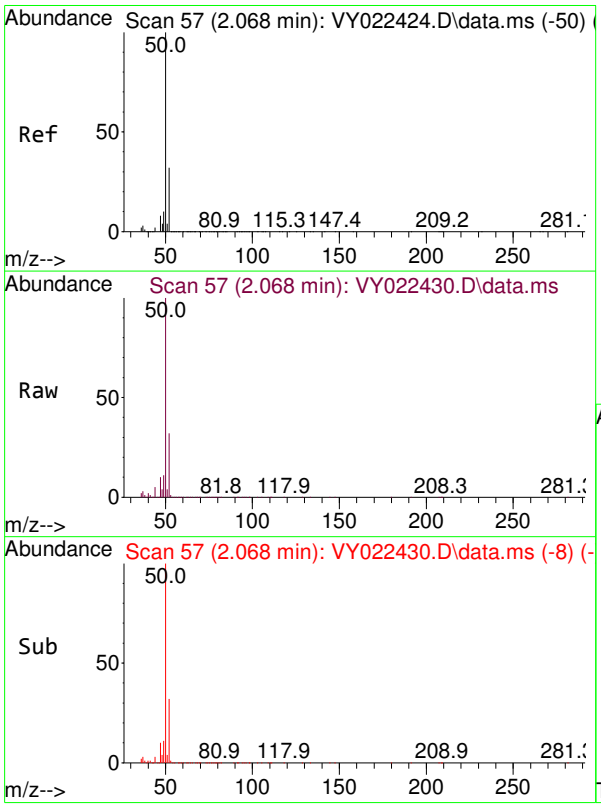


#2
Dichlorodifluoromethane
Concen: 22.242 ug/l
RT: 1.861 min Scan# 23
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 85 Resp: 48906

Ion	Ratio	Lower	Upper
85	100		
87	30.1	16.4	49.2

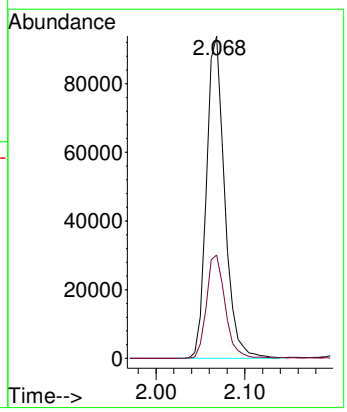




#3
Chloromethane
Concen: 24.643 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 50 Resp: 13328

Ion	Ratio	Lower	Upper
50	100		
52	32.1	25.5	38.3



Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

Manual Integrations
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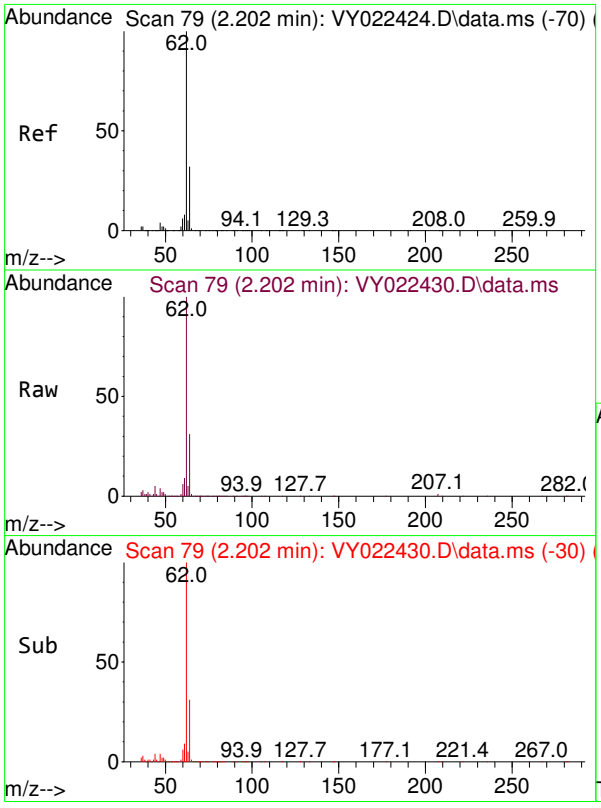
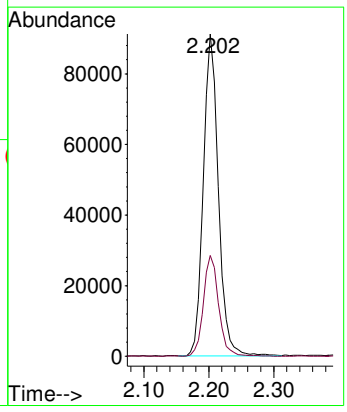
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

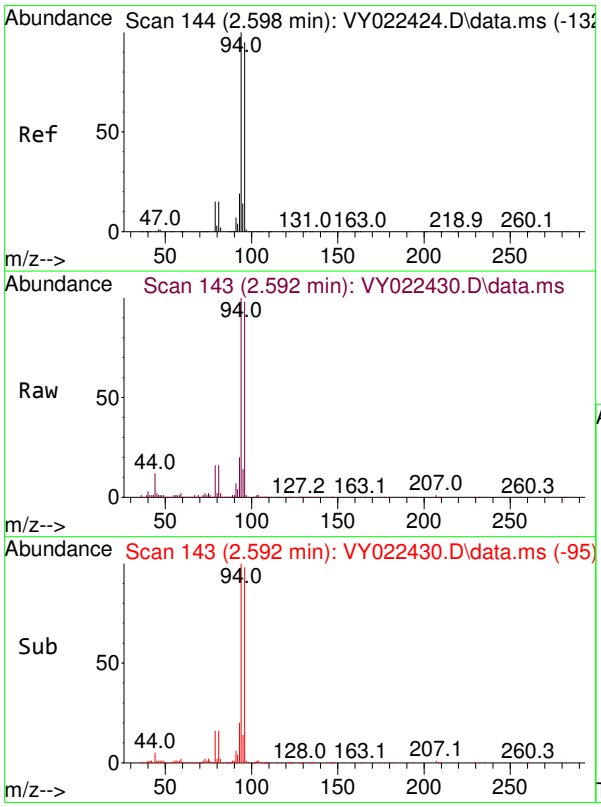


#4
Vinyl Chloride
Concen: 22.233 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.000 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 62 Resp: 146083

Ion	Ratio	Lower	Upper
62	100		
64	31.3	26.0	39.0





#5
Bromomethane
Concen: 24.475 ug/l
RT: 2.592 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 94 Resp: 14614

Ion	Ratio	Lower	Upper
94	100		
96	97.7	76.0	114.0

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

Manual Integrations
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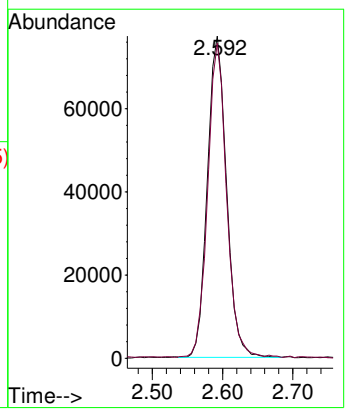
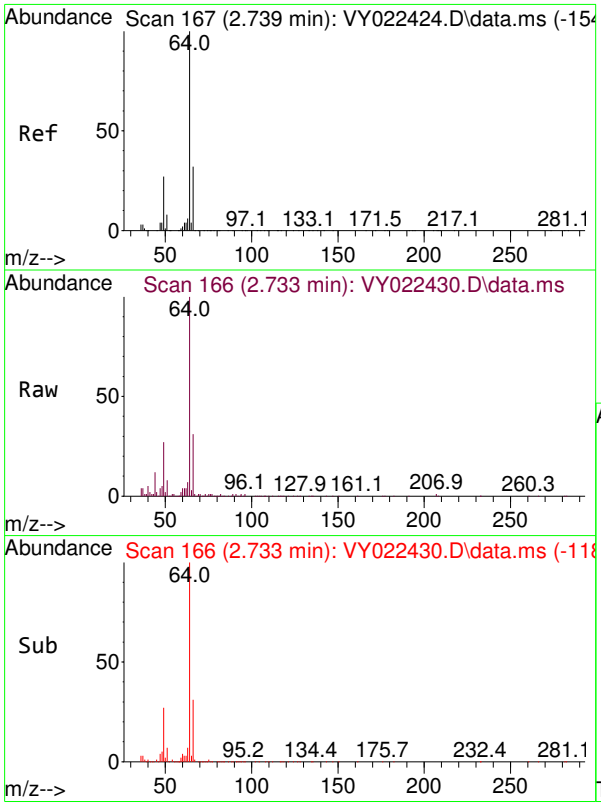
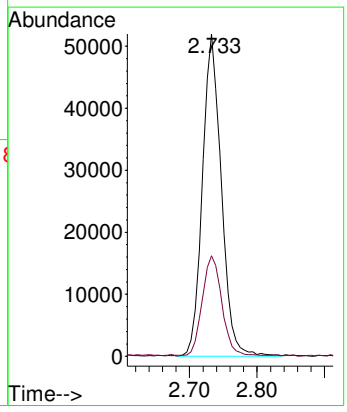


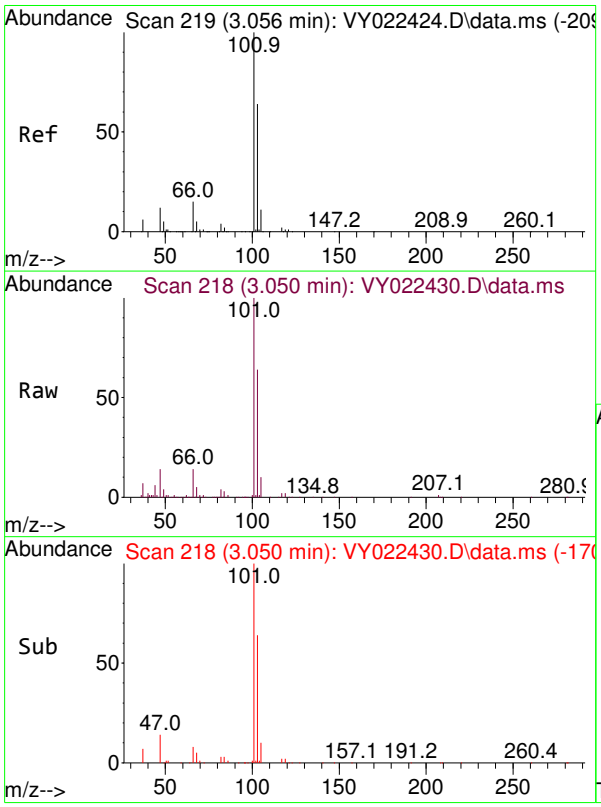


#6
Chloroethane
Concen: 23.489 ug/l
RT: 2.733 min Scan# 166
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 64 Resp: 100853

Ion	Ratio	Lower	Upper
64	100		
66	30.9	25.9	38.9

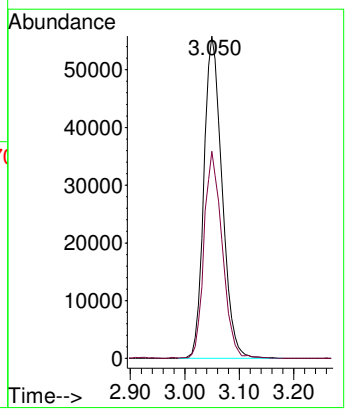




#7
Trichlorofluoromethane
Concen: 23.304 ug/l
RT: 3.050 min Scan# 2
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion:101 Resp: 12918

Ion	Ratio	Lower	Upper
101	100		
103	64.3	50.9	76.3



Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

Manual Integrations
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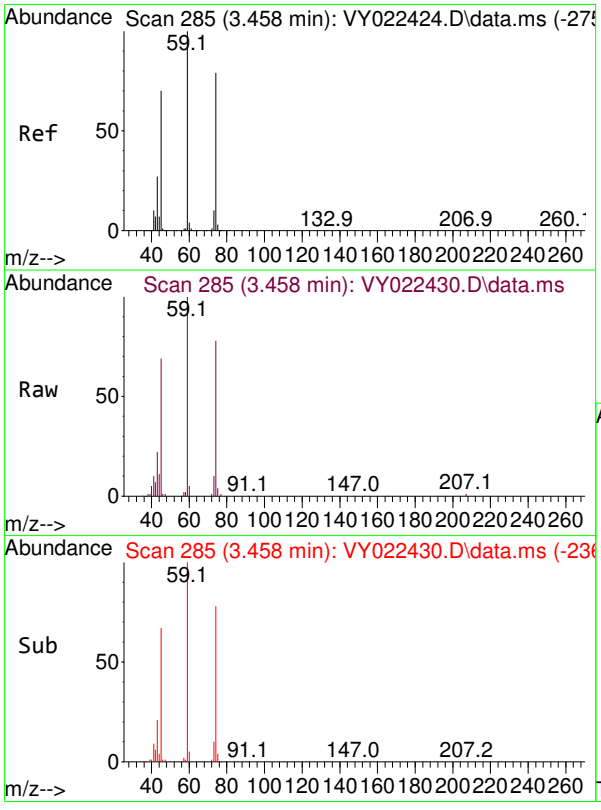
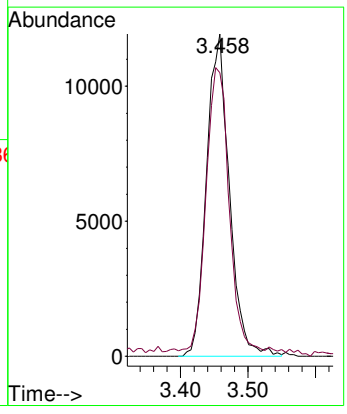
Supervised By :Mahesh Dadoda 05/28/2025

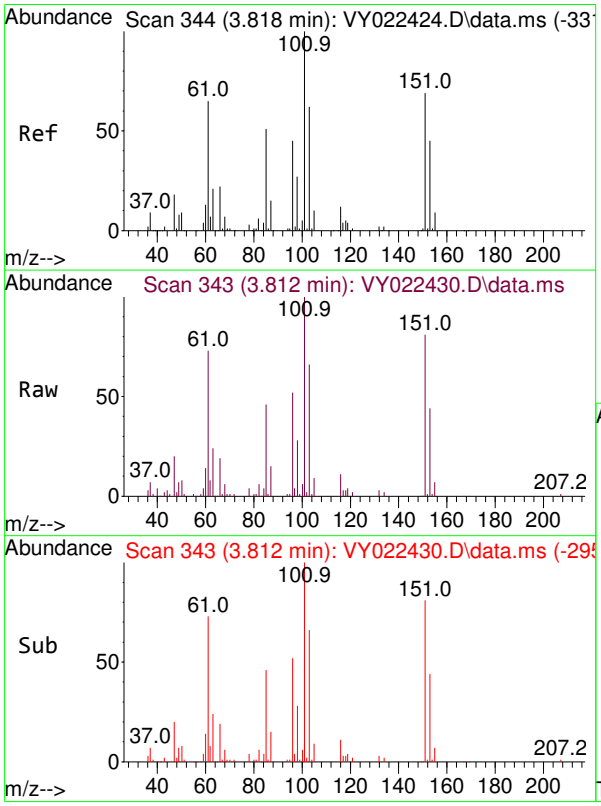


#8
Diethyl Ether
Concen: 21.947 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.000 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 74 Resp: 28054

Ion	Ratio	Lower	Upper
74	100		
45	87.0	44.9	134.5





#9
1,1,2-Trichlorotrifluoroethane
Concen: 21.780 ug/l
RT: 3.812 min Scan# 3
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion:101 Resp: 5297

Ion	Ratio	Lower	Upper
101	100		
85	47.7	39.2	58.8
151	71.4	58.8	88.2

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

Manual Integrations
APPROVED

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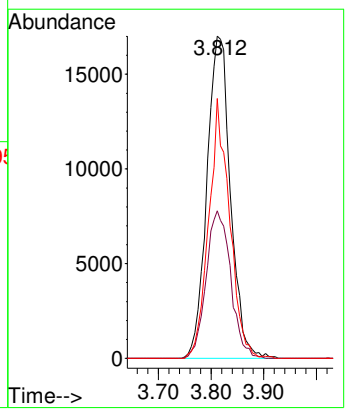
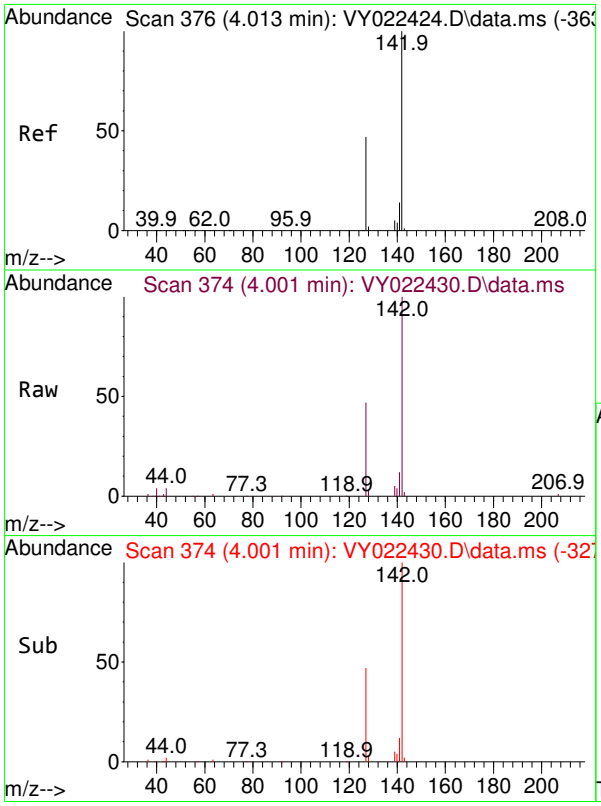
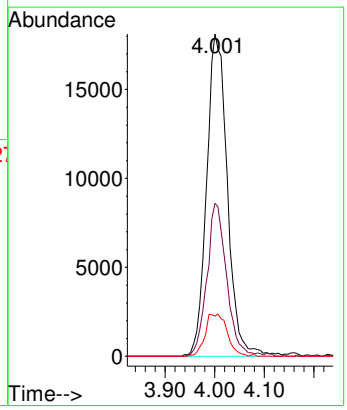


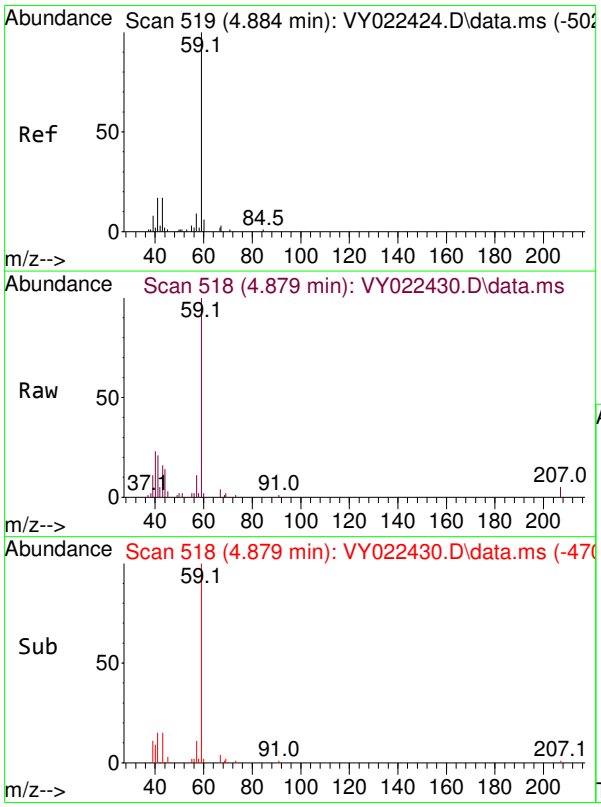


#10
Methyl Iodide
Concen: 19.133 ug/l
RT: 4.001 min Scan# 374
Delta R.T. -0.012 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion:142 Resp: 52498

Ion	Ratio	Lower	Upper
142	100		
127	45.1	36.2	54.4
141	13.9	11.6	17.4





#11
Tert butyl alcohol
Concen: 101.788 ug/l
RT: 4.879 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 59 Resp: 1741

Ion	Ratio	Lower	Upper
59	100		
57	5.3	9.1	13.7

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

Manual Integrations
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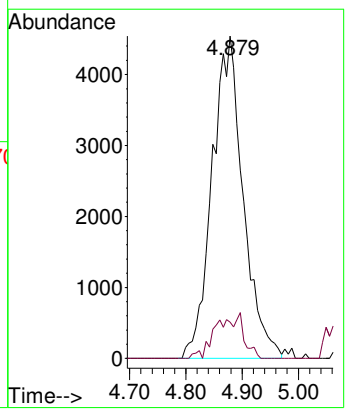
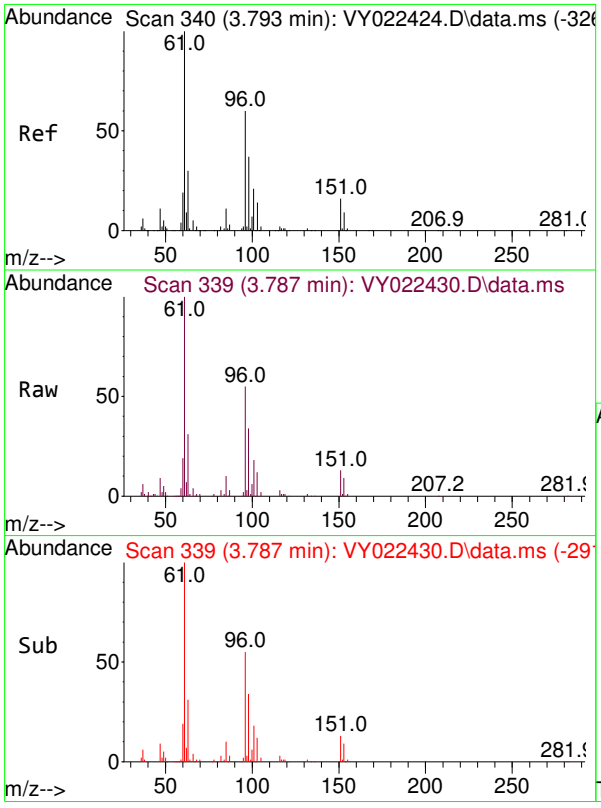
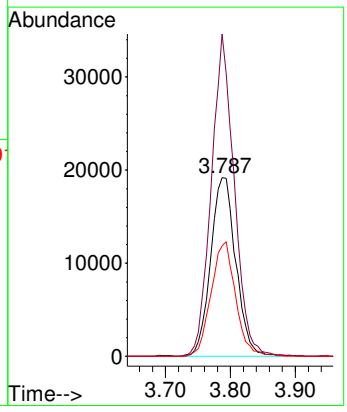


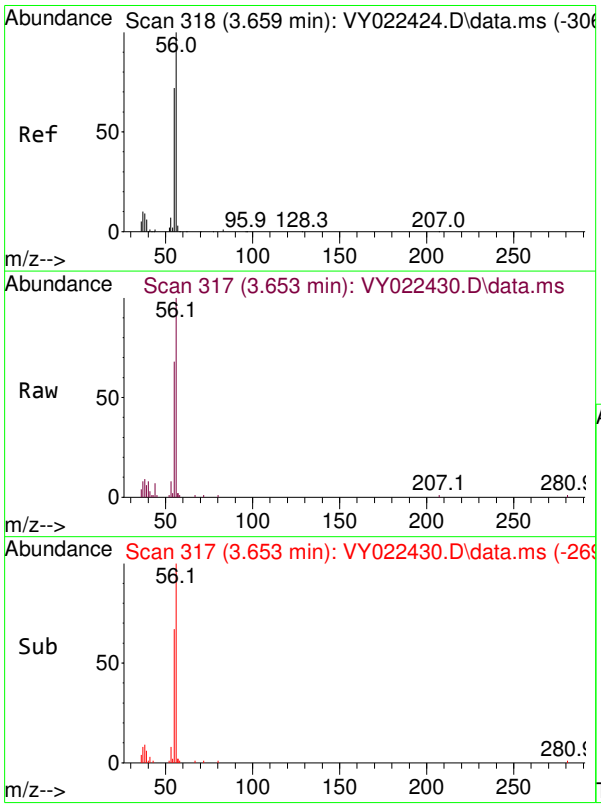


#12
1,1-Dichloroethene
Concen: 21.431 ug/l
RT: 3.787 min Scan# 339
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 96 Resp: 51748

Ion	Ratio	Lower	Upper
96	100		
61	180.4	134.1	201.1
98	61.7	50.2	75.2





#13
Acrolein
Concen: 101.515 ug/l
RT: 3.653 min Scan# 3
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 56 Resp: 2602

Ion	Ratio	Lower	Upper
56	100		
55	72.9	56.5	84.7

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

Manual Integrations
APPROVED

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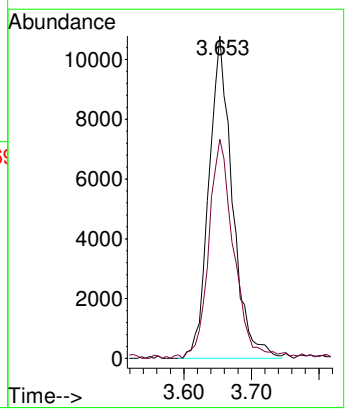
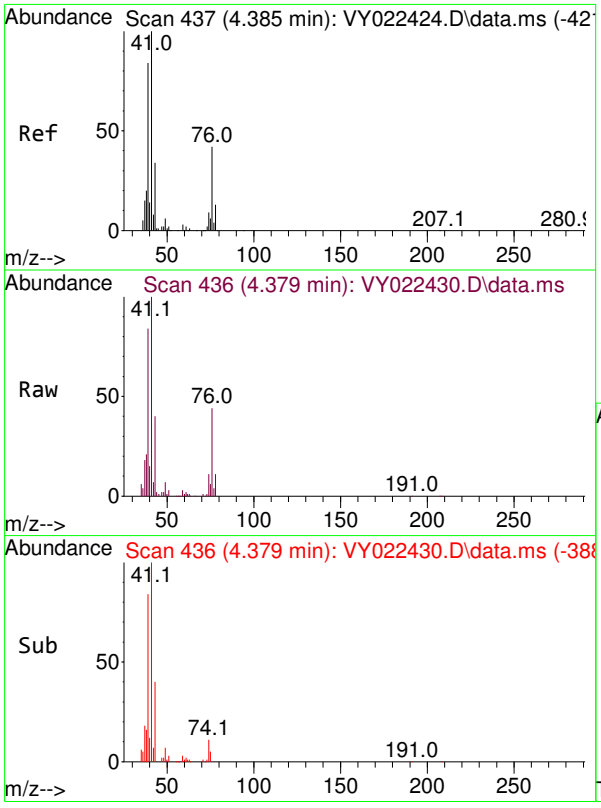
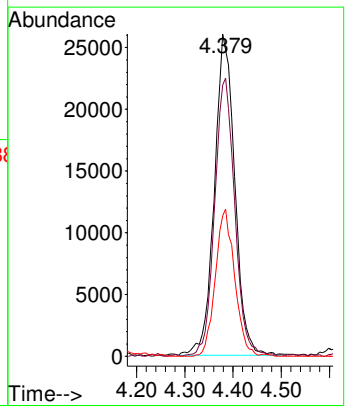


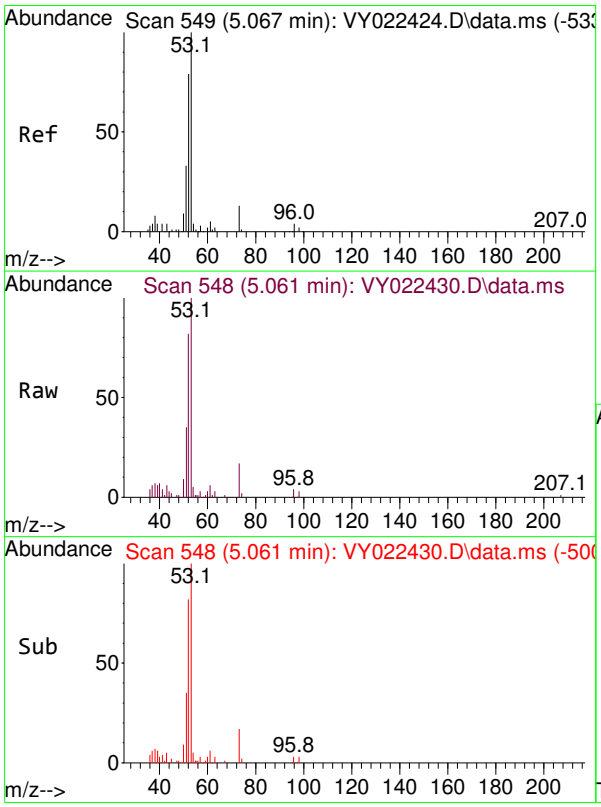


#14
Allyl chloride
Concen: 21.108 ug/l
RT: 4.379 min Scan# 436
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 41 Resp: 76669

Ion	Ratio	Lower	Upper
41	100		
39	85.7	66.6	100.0
76	43.3	33.7	50.5





#15
Acrylonitrile
Concen: 105.272 ug/l
RT: 5.061 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 53 Resp: 5424

Ion	Ratio	Lower	Upper
53	100		
52	82.7	65.1	97.7
51	39.2	30.0	45.0

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

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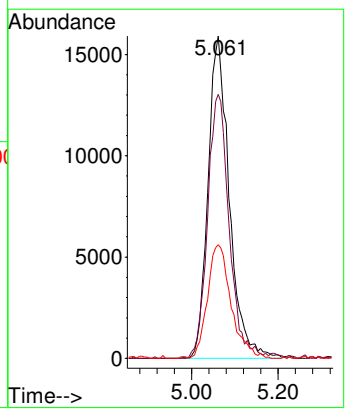
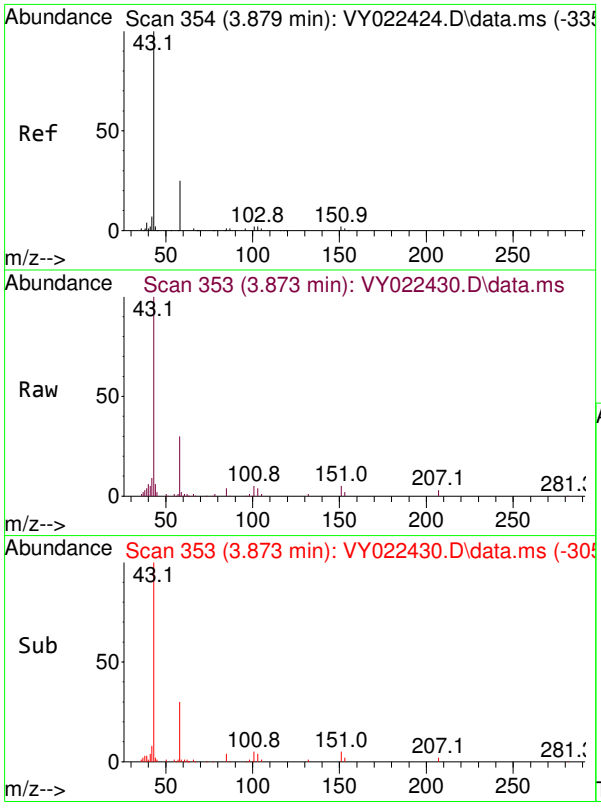
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

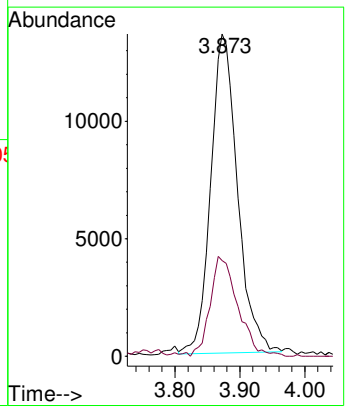


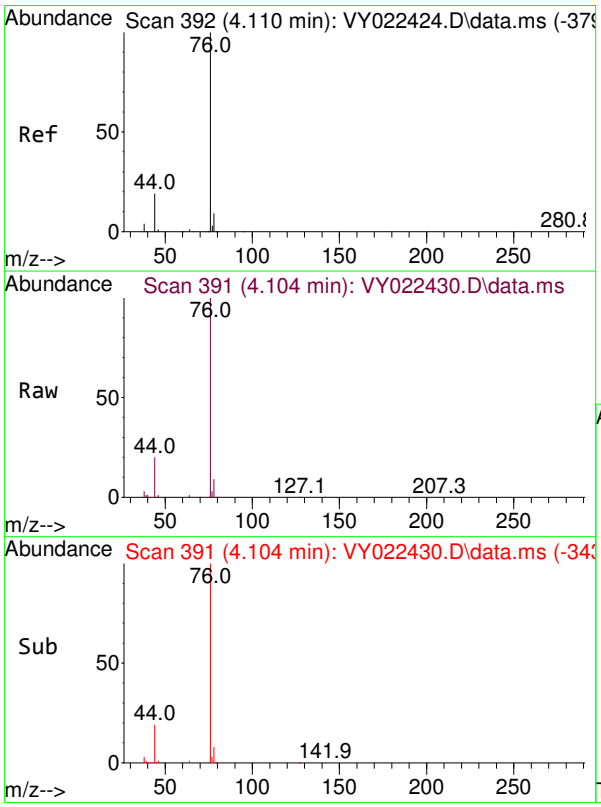


#16
Acetone
Concen: 97.560 ug/l
RT: 3.873 min Scan# 353
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 43 Resp: 38917

Ion	Ratio	Lower	Upper
43	100		
58	29.6	20.6	30.8





#17
Carbon Disulfide
Concen: 21.347 ug/l
RT: 4.104 min Scan# 3
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 76 Resp: 16449

Ion	Ratio	Lower	Upper
76	100		
78	8.6	7.2	10.8

Instrument :
MSVOA_Y
ClientSampleId :
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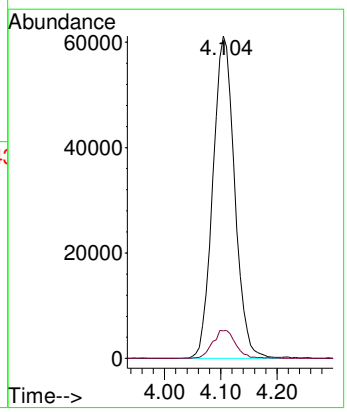
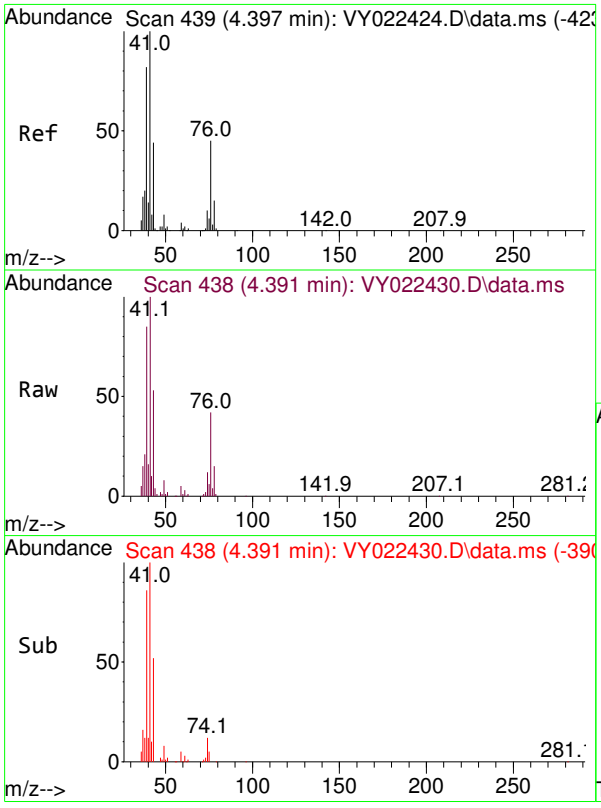
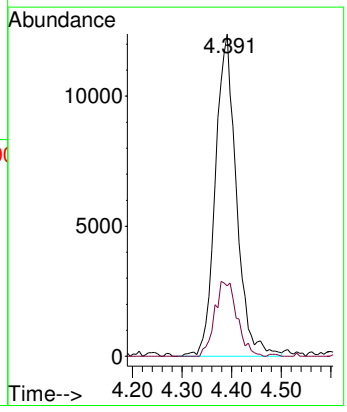


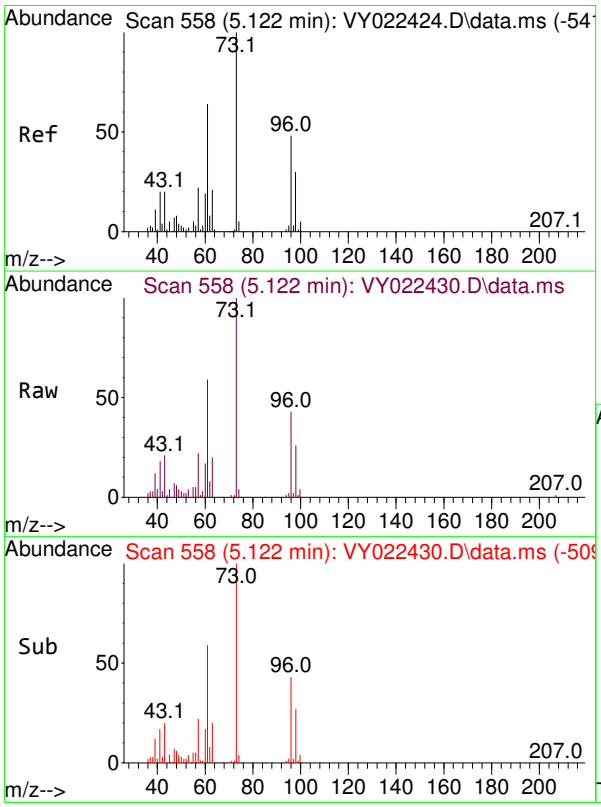


#18
Methyl Acetate
Concen: 24.412 ug/l
RT: 4.391 min Scan# 438
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 43 Resp: 36478

Ion	Ratio	Lower	Upper
43	100		
74	24.7	21.2	31.8





#19
Methyl tert-butyl Ether
Concen: 21.000 ug/l
RT: 5.122 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 73 Resp: 13462

Ion	Ratio	Lower	Upper
73	100		
57	22.2	17.7	26.5

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

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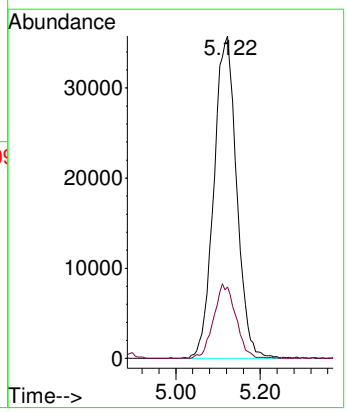
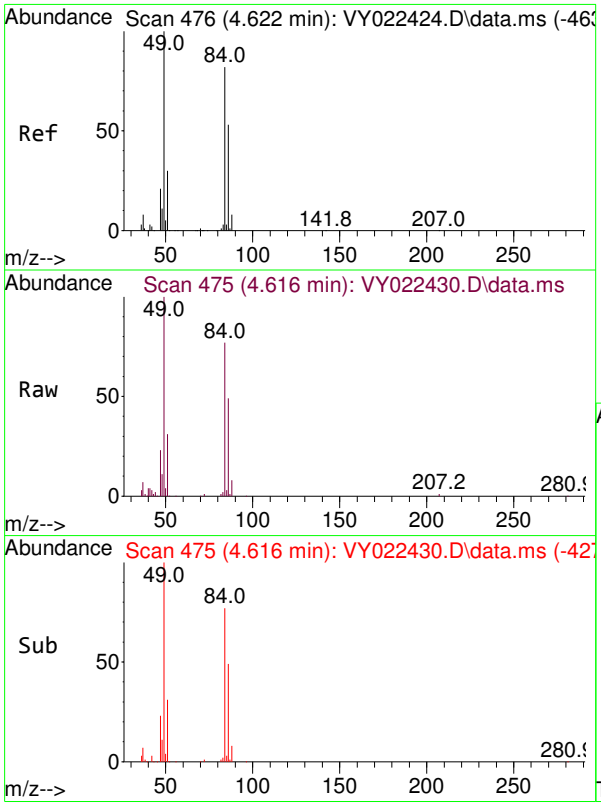
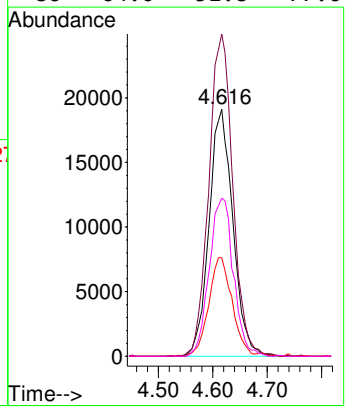


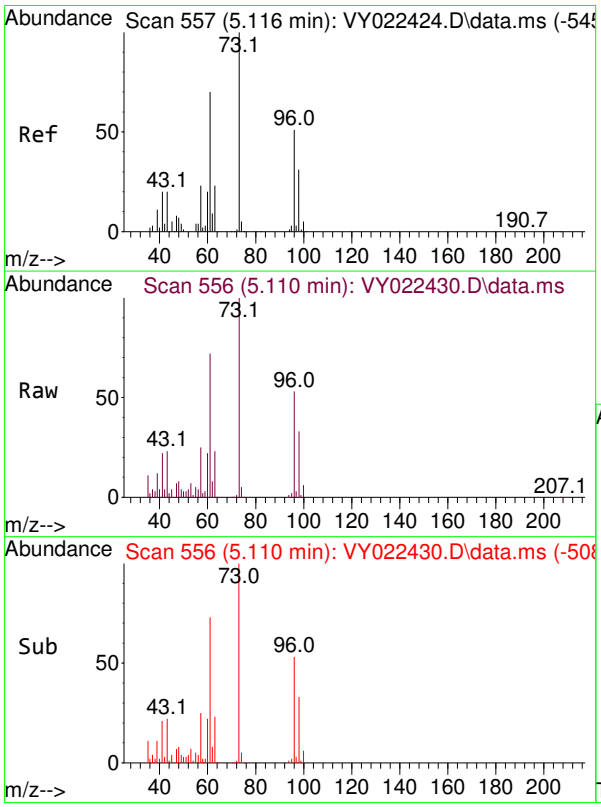


#20
Methylene Chloride
Concen: 20.660 ug/l
RT: 4.616 min Scan# 475
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 84 Resp: 58197

Ion	Ratio	Lower	Upper
84	100		
49	130.5	97.8	146.8
51	39.9	29.5	44.3
86	64.0	51.8	77.6

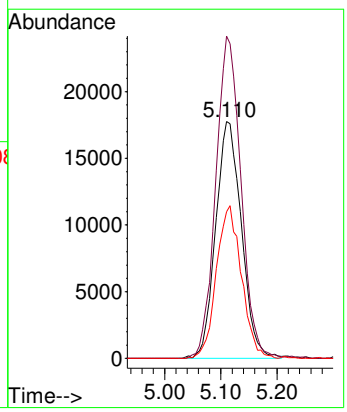




#21
trans-1,2-Dichloroethene
Concen: 21.447 ug/l
RT: 5.110 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 96 Resp: 5653

Ion	Ratio	Lower	Upper
96	100		
61	136.1	110.4	165.6
98	61.8	48.6	73.0



Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

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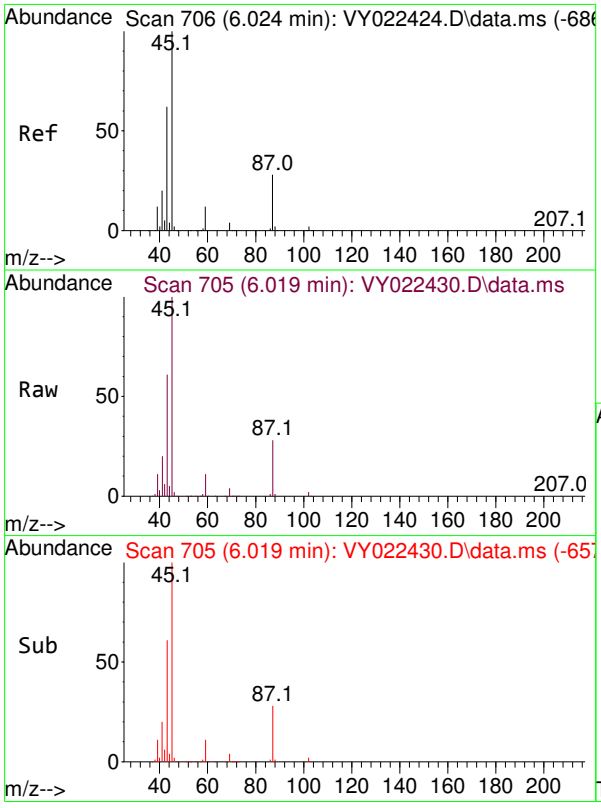
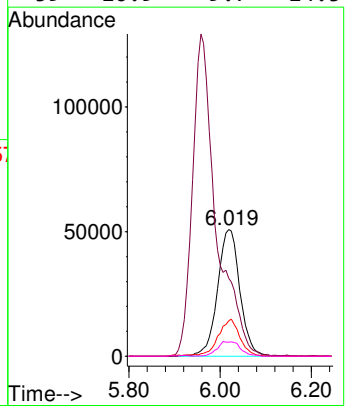
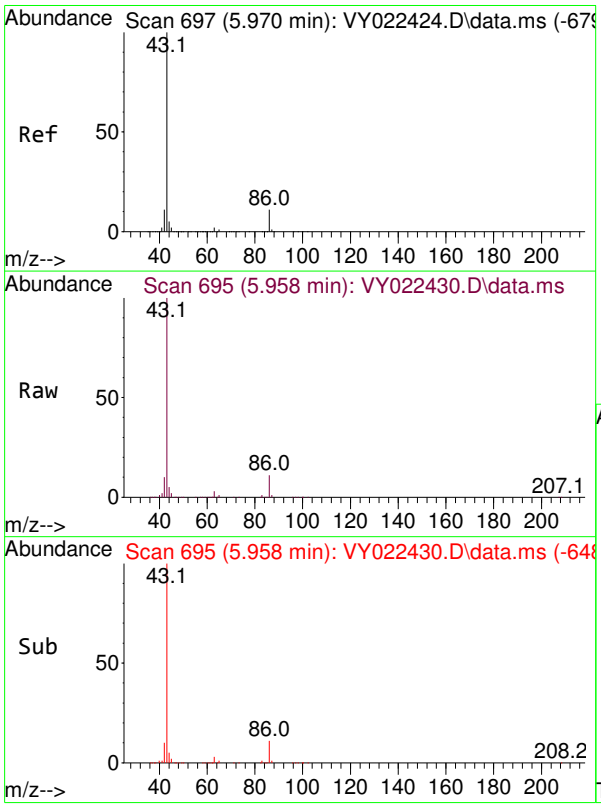


#22
Diisopropyl ether
Concen: 21.665 ug/l
RT: 6.019 min Scan# 705
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 45 Resp: 173680

Ion	Ratio	Lower	Upper
45	100		
43	60.8	49.8	74.8
87	28.0	23.0	34.6
59	10.9	9.7	14.5

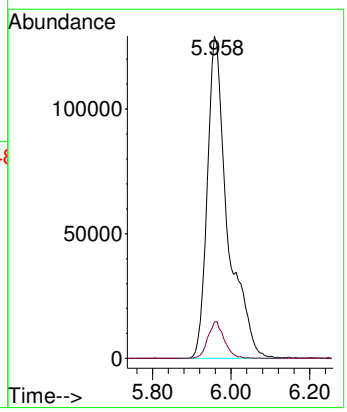




#23
Vinyl Acetate
Concen: 101.165 ug/l
RT: 5.958 min Scan# 6
Delta R.T. -0.012 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 43 Resp: 46565

Ion	Ratio	Lower	Upper
43	100		
86	11.3	8.8	13.2



Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

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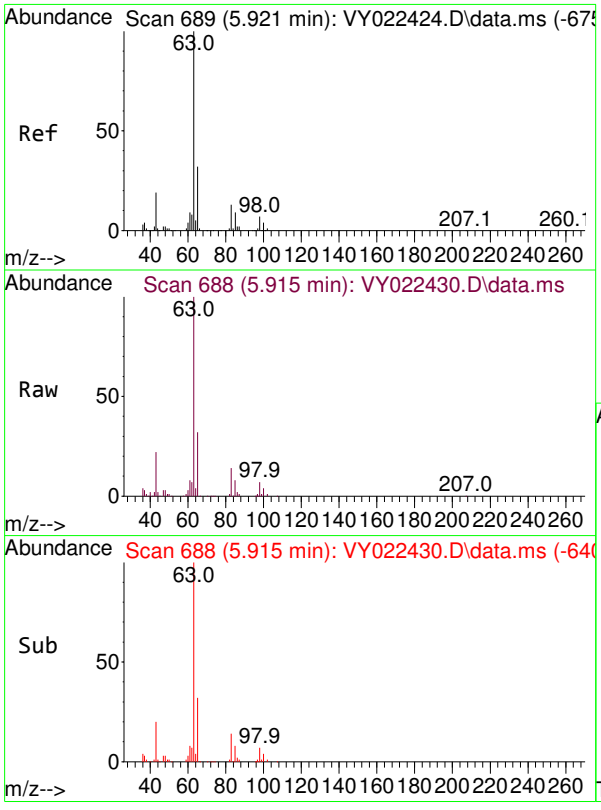
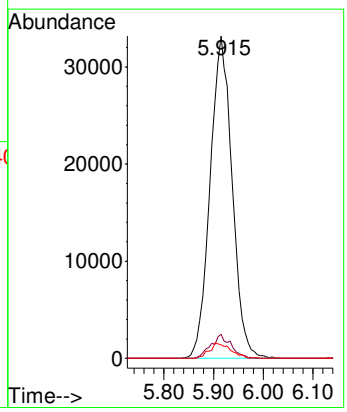
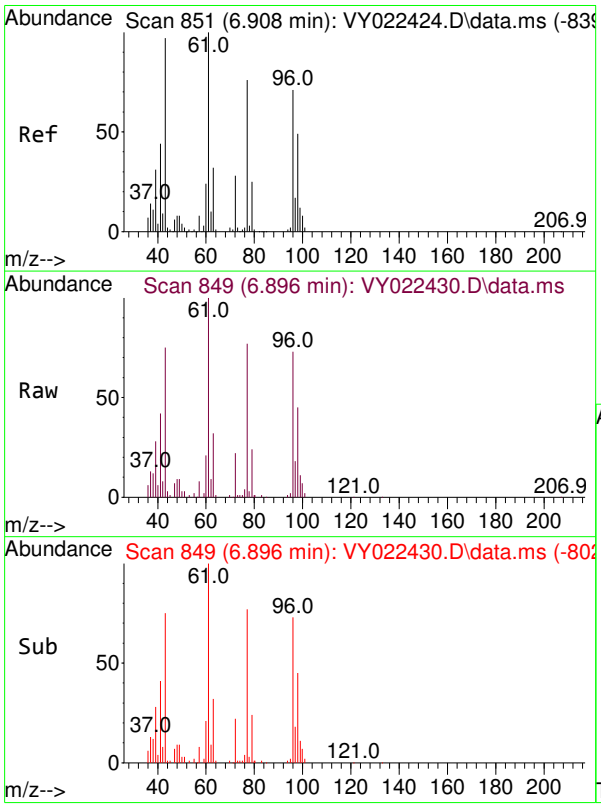


#24
1,1-Dichloroethane
Concen: 21.556 ug/l
RT: 5.915 min Scan# 688
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 63 Resp: 102108

Ion	Ratio	Lower	Upper
63	100		
98	7.4	3.5	10.5
100	4.2	2.1	6.5

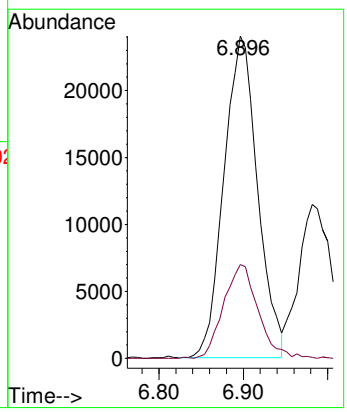




#25
2-Butanone
Concen: 100.170 ug/l
RT: 6.896 min Scan# 8
Delta R.T. -0.012 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 43 Resp: 6654

Ion	Ratio	Lower	Upper
43	100		
72	29.2	22.8	34.2



Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

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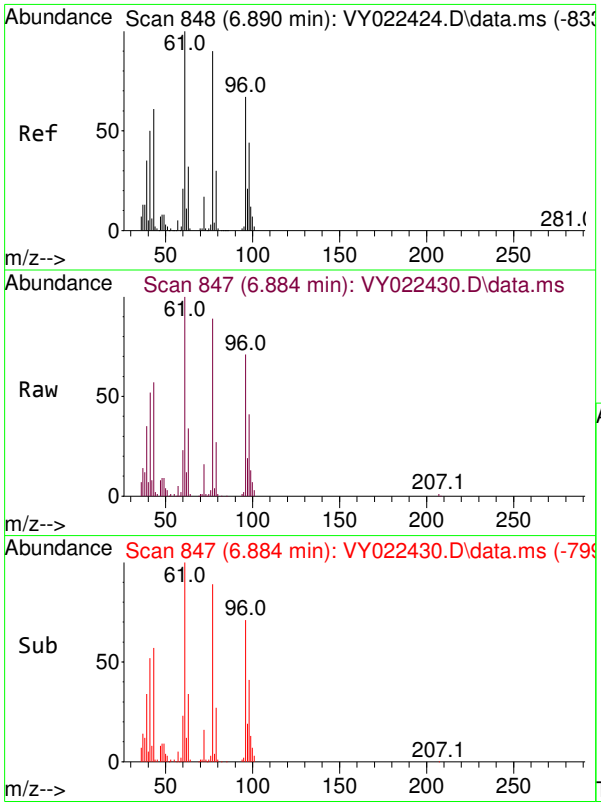
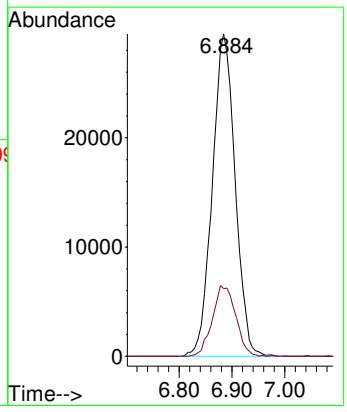
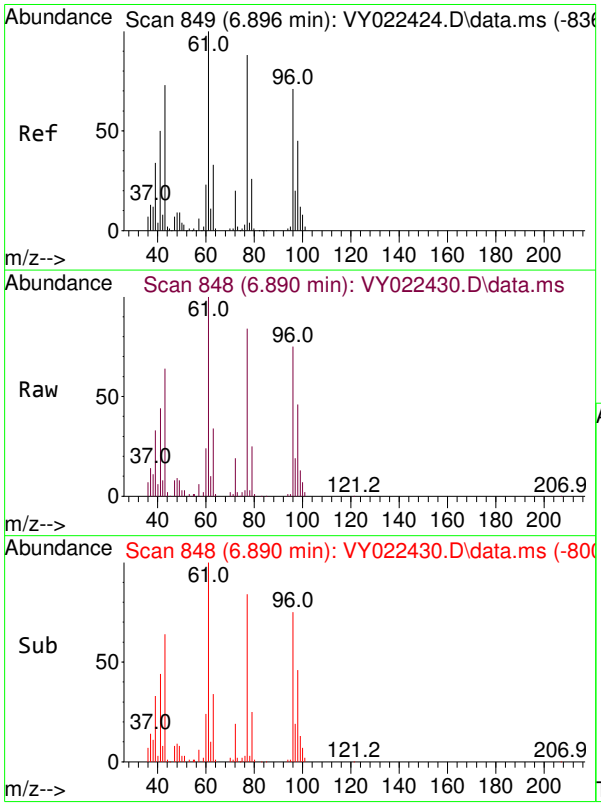


#26
2,2-Dichloropropane
Concen: 20.774 ug/l
RT: 6.884 min Scan# 847
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 77 Resp: 89103

Ion	Ratio	Lower	Upper
77	100		
97	22.5	11.6	34.7

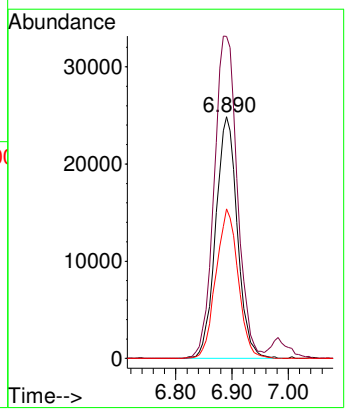




#27
cis-1,2-Dichloroethene
Concen: 21.800 ug/l
RT: 6.890 min Scan# 8
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 96 Resp: 6652

Ion	Ratio	Lower	Upper
96	100		
61	143.2	0.0	292.0
98	63.5	0.0	131.0



Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

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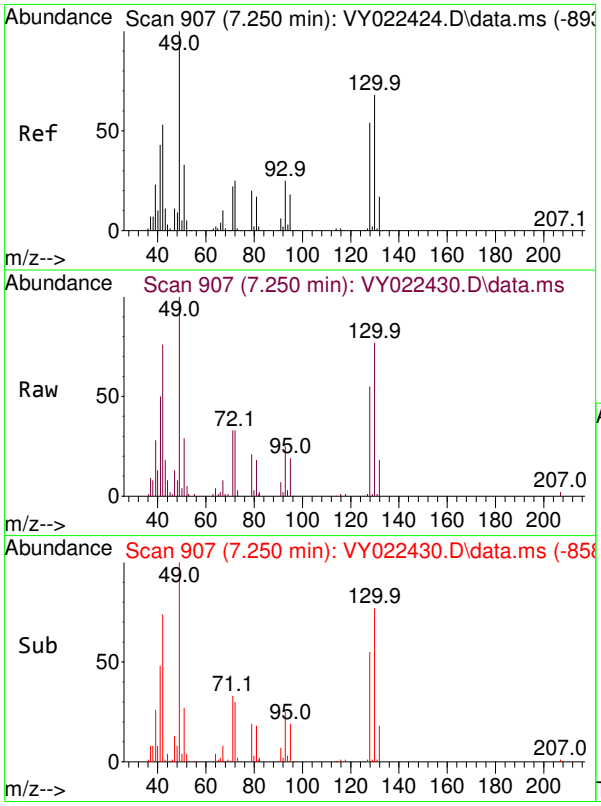
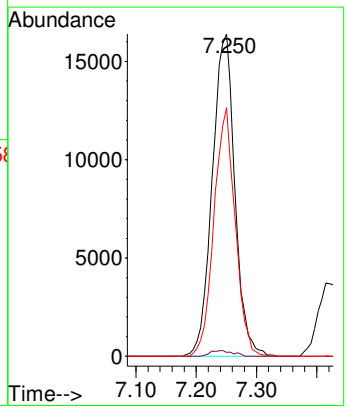
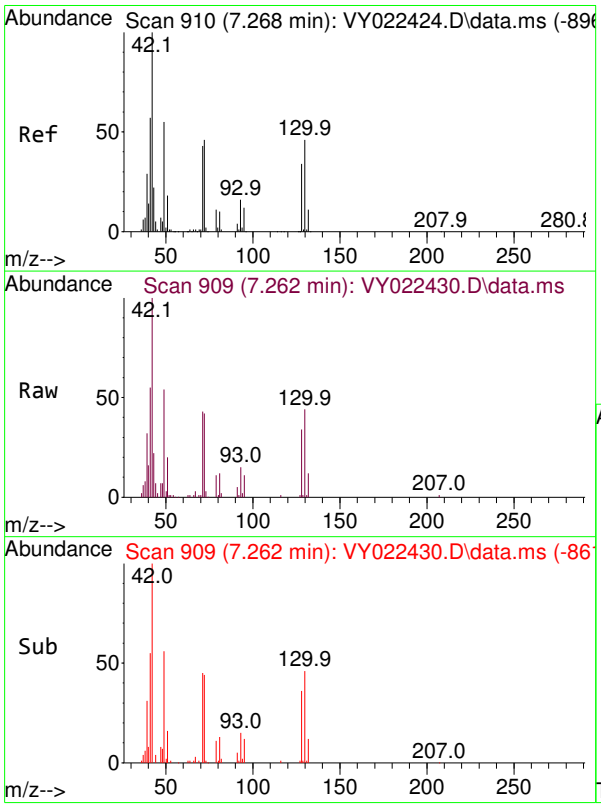


#28
Bromochloromethane
Concen: 21.586 ug/l
RT: 7.250 min Scan# 907
Delta R.T. 0.000 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 49 Resp: 42697

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	4.0
130	72.5	56.9	85.3





#29
Tetrahydrofuran
Concen: 105.084 ug/l
RT: 7.262 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 42 Resp: 4655

Ion	Ratio	Lower	Upper
42	100		
72	44.6	37.7	56.5
71	42.4	34.7	52.1

Instrument :
MSVOA_Y
ClientSampleId :
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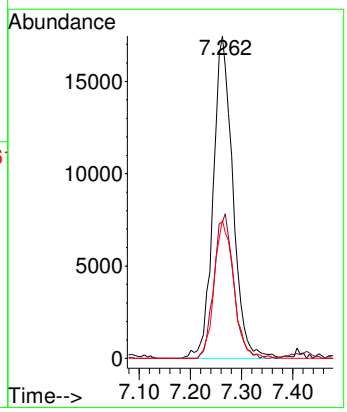
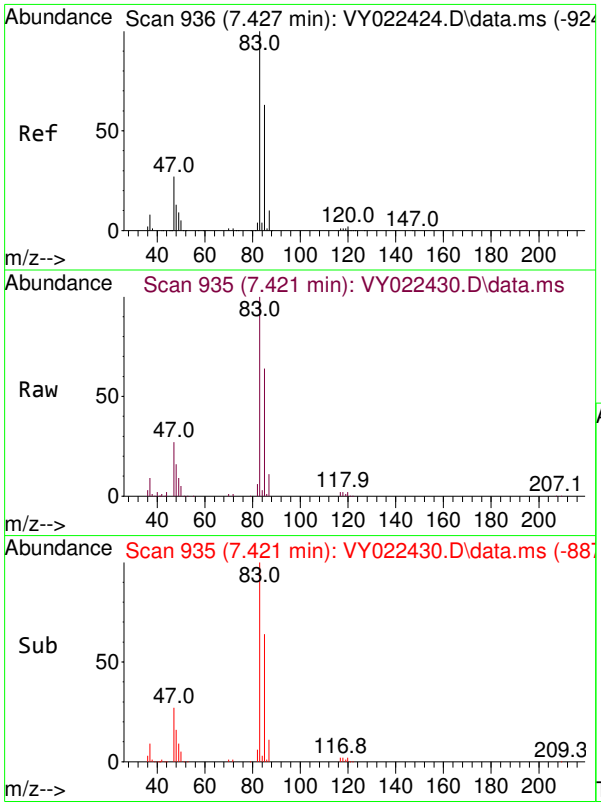
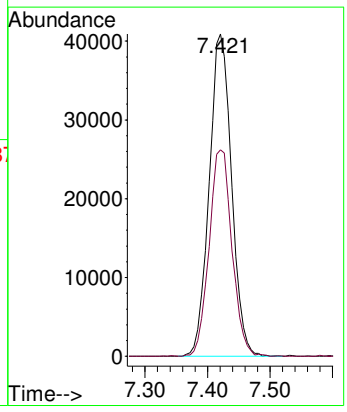


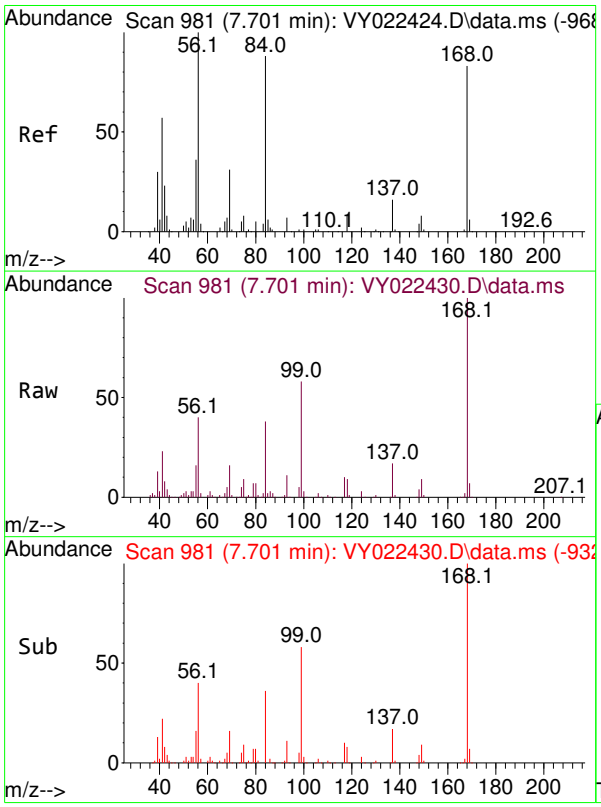


#30
Chloroform
Concen: 21.723 ug/l
RT: 7.421 min Scan# 935
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 83 Resp: 101394

Ion	Ratio	Lower	Upper
83	100		
85	64.0	50.1	75.1





#31
Cyclohexane
Concen: 20.054 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 56 Resp: 9364

Ion	Ratio	Lower	Upper
56	100		
69	38.6	24.6	36.8
84	91.6	70.4	105.6

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

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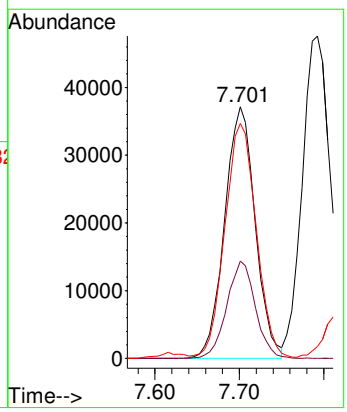
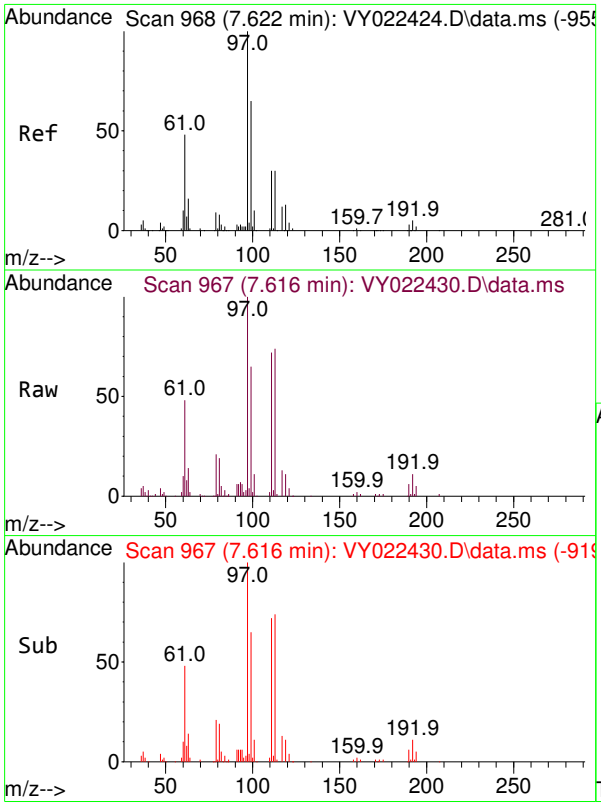
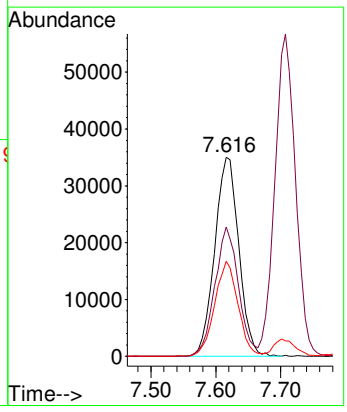


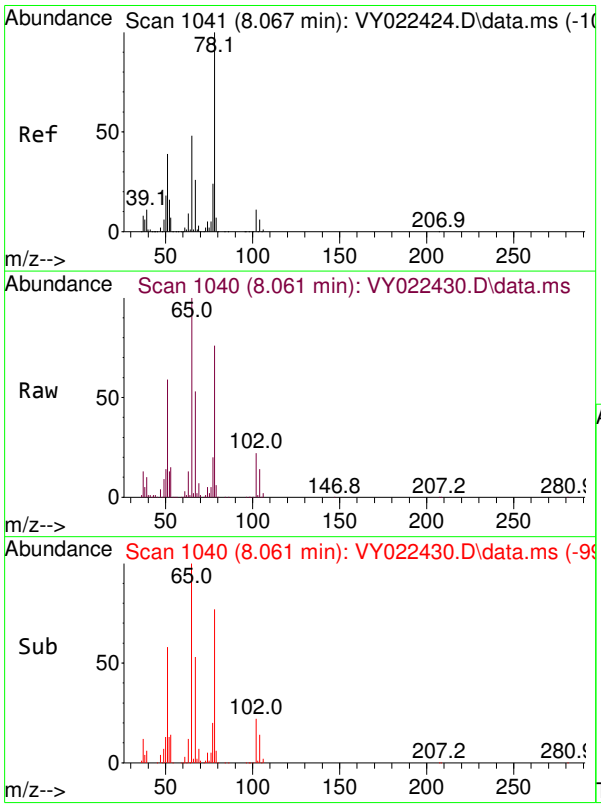


#32
1,1,1-Trichloroethane
Concen: 21.358 ug/l
RT: 7.616 min Scan# 967
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 97 Resp: 90476

Ion	Ratio	Lower	Upper
97	100		
99	63.7	51.3	76.9
61	46.6	37.3	55.9

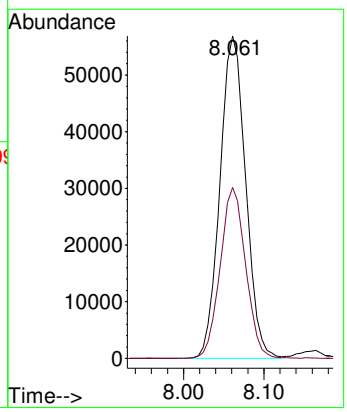




#33
1,2-Dichloroethane-d4
Concen: 51.967 ug/l
RT: 8.061 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 65 Resp: 12615

Ion	Ratio	Lower	Upper
65	100		
67	52.5	0.0	104.4



Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

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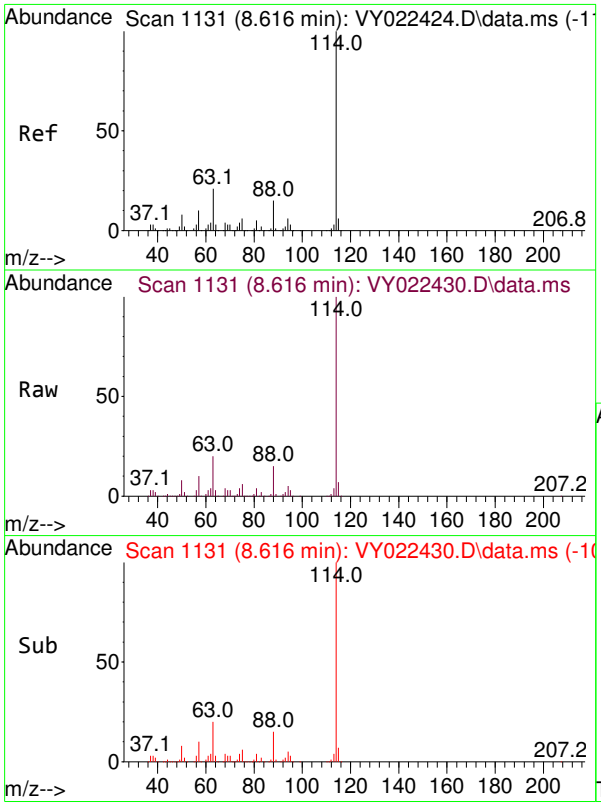
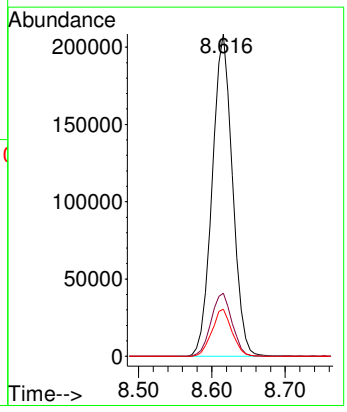
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

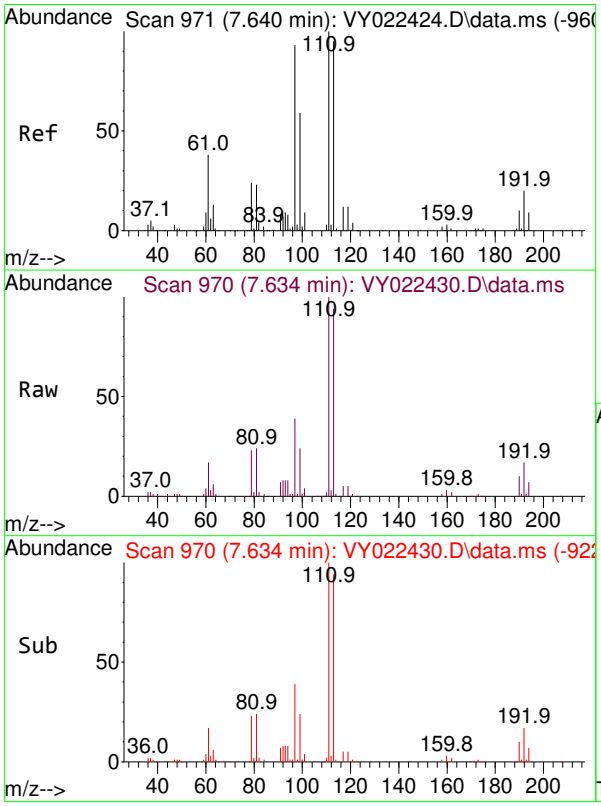


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion:114 Resp: 399143

Ion	Ratio	Lower	Upper
114	100		
63	19.6	0.0	42.6
88	14.6	0.0	29.4





#35
Dibromofluoromethane
Concen: 51.064 ug/l
RT: 7.634 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion:113 Resp: 11936

Ion	Ratio	Lower	Upper
113	100		
111	102.6	82.4	123.6
192	18.1	15.2	22.8

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

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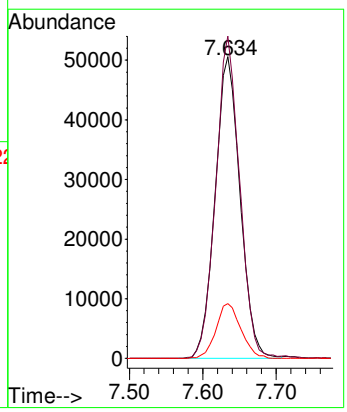
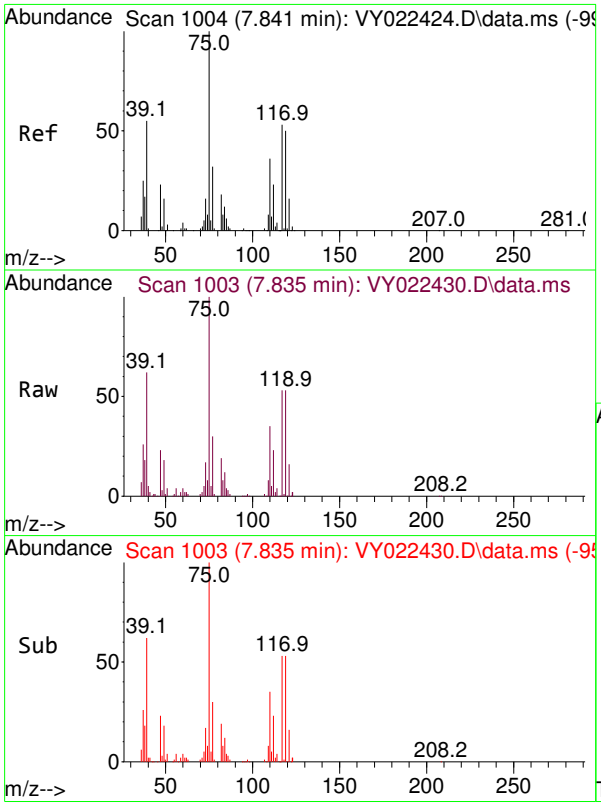
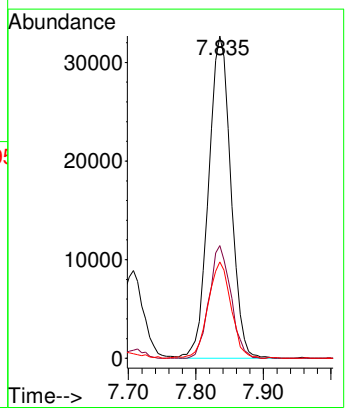


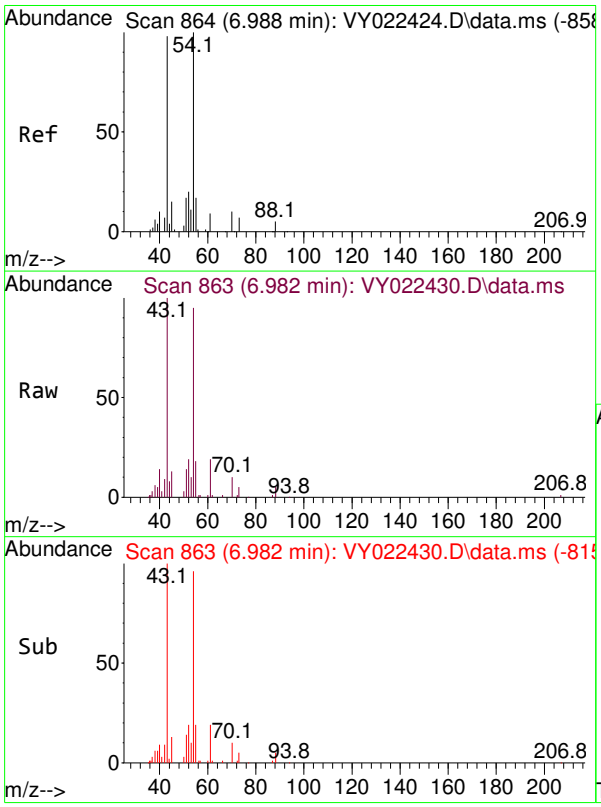


#36
1,1-Dichloropropene
Concen: 20.169 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 75 Resp: 74812

Ion	Ratio	Lower	Upper
75	100		
110	34.1	17.1	51.2
77	30.9	25.1	37.7





#37
Ethyl Acetate
Concen: 20.713 ug/l
RT: 6.982 min Scan# 8
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 43 Resp: 3265

Ion	Ratio	Lower	Upper
43	100		
61	14.2	11.7	17.5
70	9.7	7.8	11.6

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

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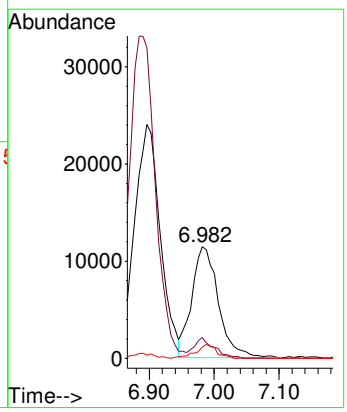
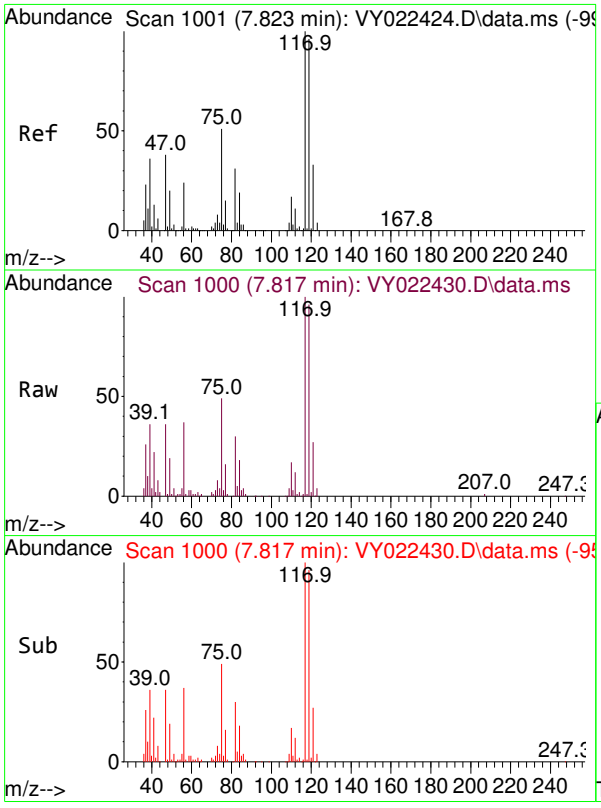
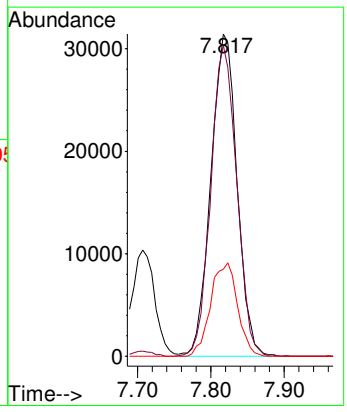


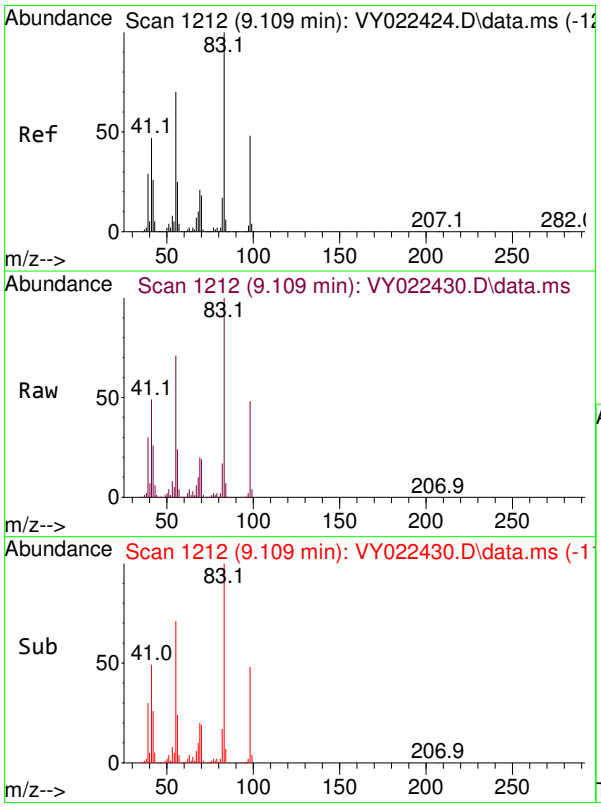


#38
Carbon Tetrachloride
Concen: 20.108 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion:117 Resp: 77697

Ion	Ratio	Lower	Upper
117	100		
119	96.4	76.3	114.5
121	27.0	26.1	39.1

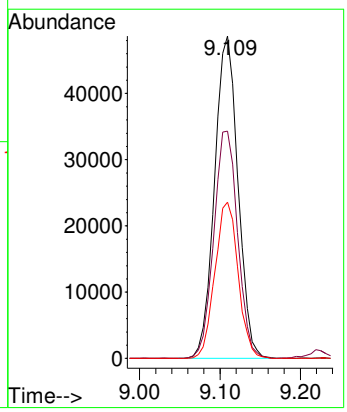




#39
Methylcyclohexane
Concen: 19.923 ug/l
RT: 9.109 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 83 Resp: 9823

Ion	Ratio	Lower	Upper
83	100		
55	70.5	56.2	84.2
98	48.5	38.4	57.6



Instrument :
MSVOA_Y
ClientSampleId :
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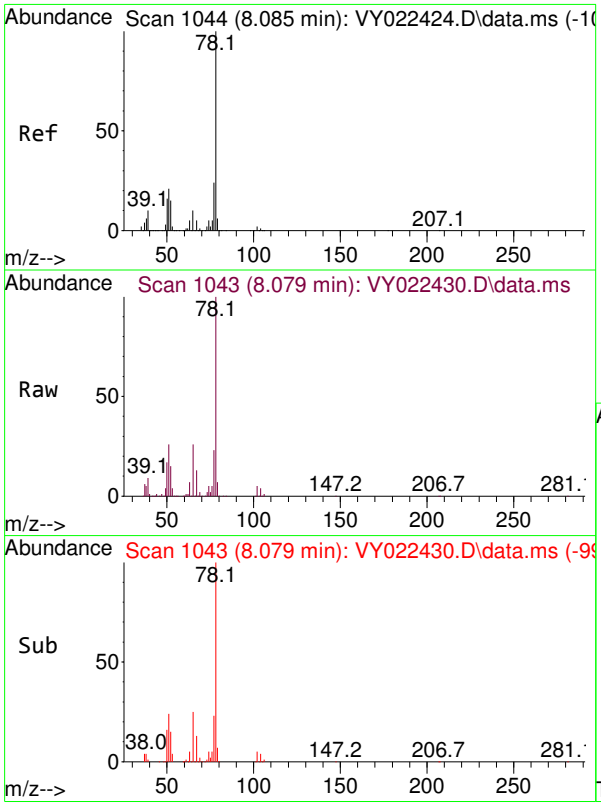
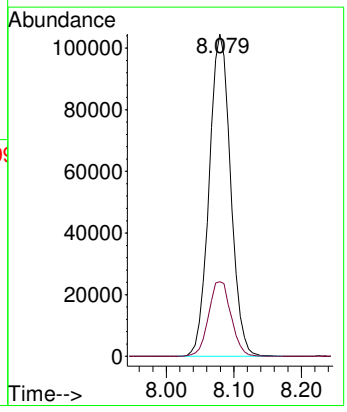
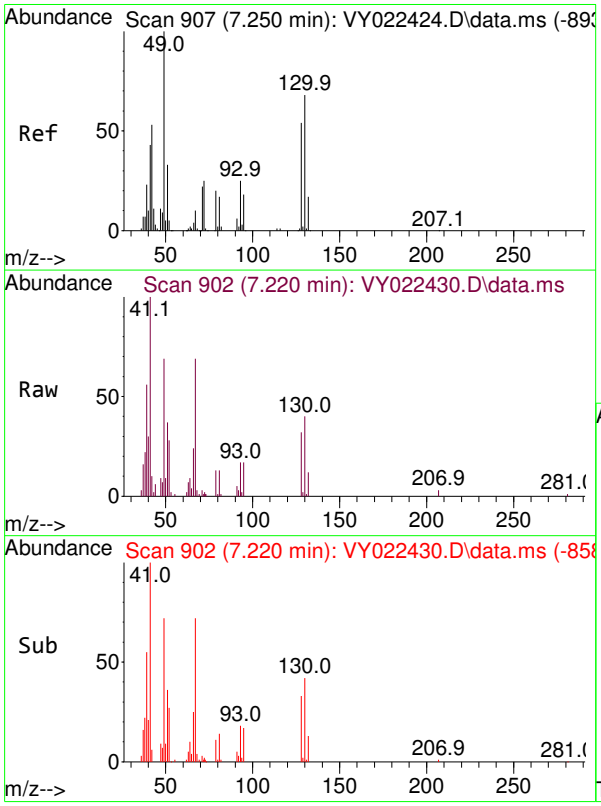


#40
Benzene
Concen: 20.851 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 78 Resp: 230138

Ion	Ratio	Lower	Upper
78	100		
77	23.2	19.4	29.2

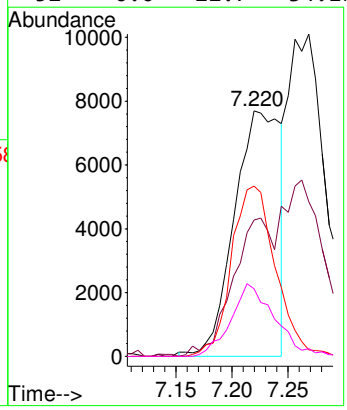




#41
Methacrylonitrile
Concen: 22.980 ug/l m
RT: 7.220 min Scan# 9
Delta R.T. -0.030 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 41 Resp: 2198

Ion	Ratio	Lower	Upper
41	100		
39	66.7	40.4	60.6
67	0.0	53.0	79.4
52	0.0	22.7	34.1#



Instrument :
MSVOA_Y
ClientSampleId :
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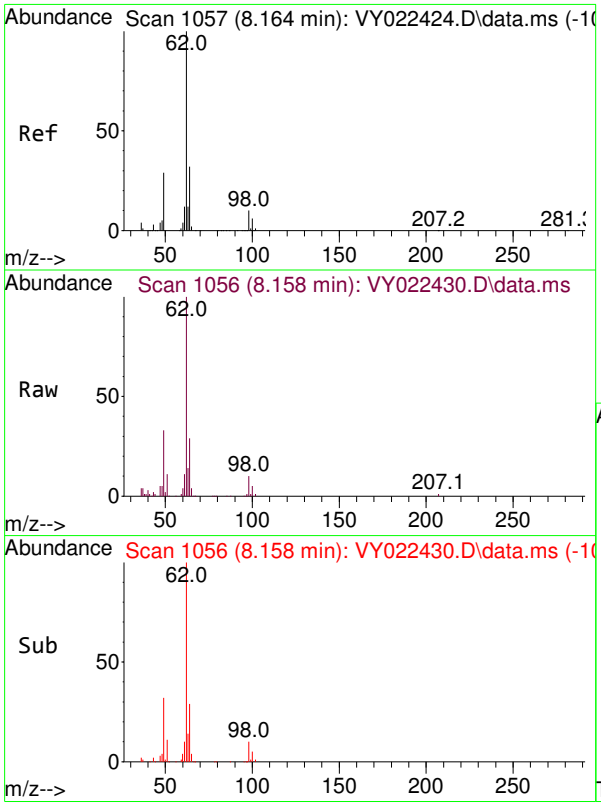
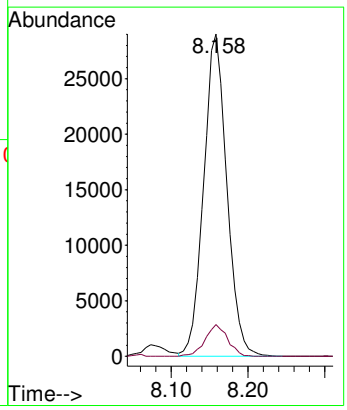
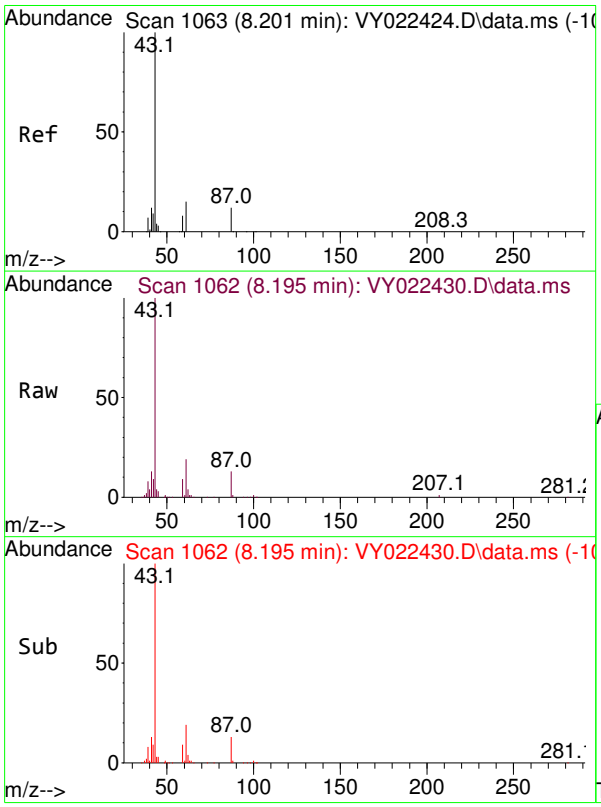


#42
1,2-Dichloroethane
Concen: 20.920 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 62 Resp: 60983

Ion	Ratio	Lower	Upper
62	100		
98	9.6	0.0	18.4

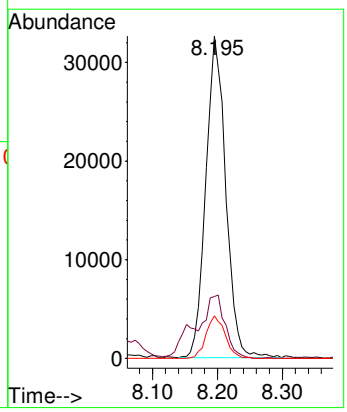




#43
Isopropyl Acetate
Concen: 20.185 ug/l
RT: 8.195 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 43 Resp: 6953

Ion	Ratio	Lower	Upper
43	100		
61	19.8	15.4	23.0
87	12.7	10.6	15.8



Instrument :
MSVOA_Y
ClientSampleId :
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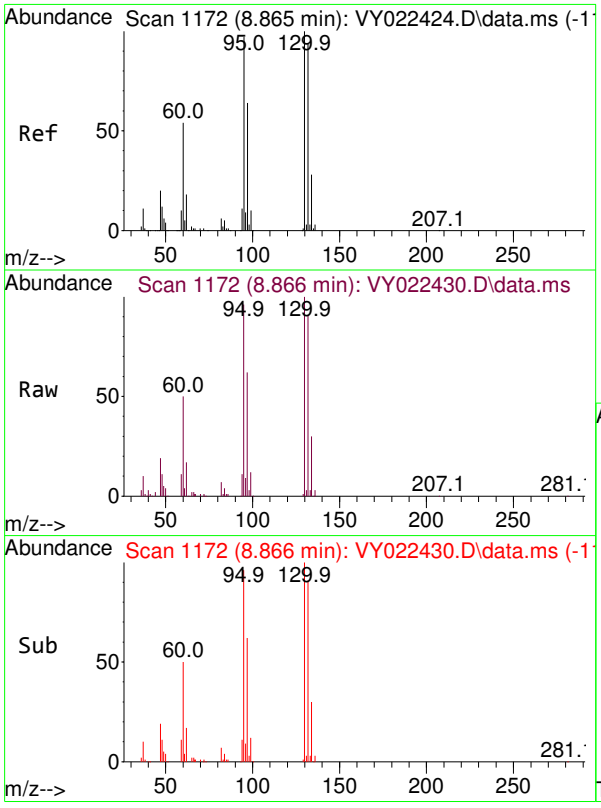
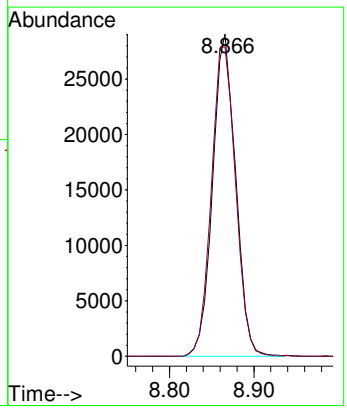
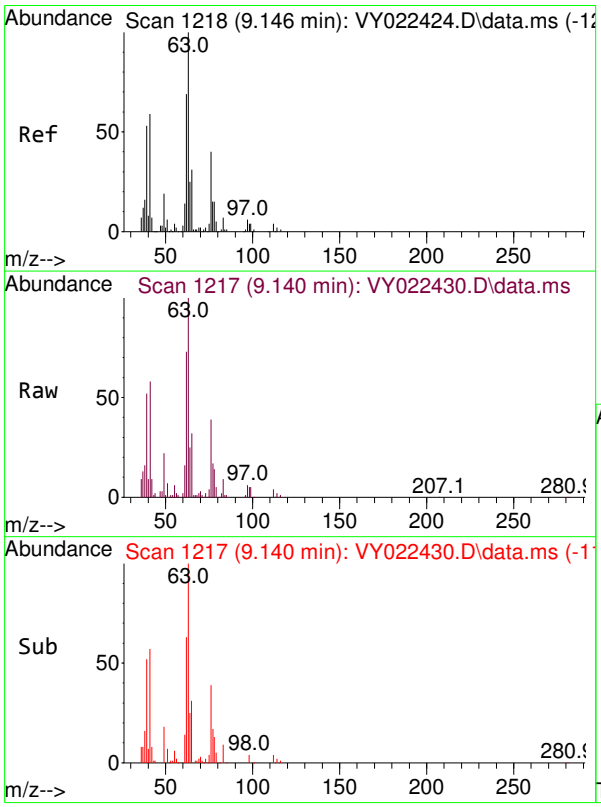


#44
Trichloroethene
Concen: 20.242 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. 0.000 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion:130 Resp: 55229

Ion	Ratio	Lower	Upper
130	100		
95	96.0	0.0	194.8

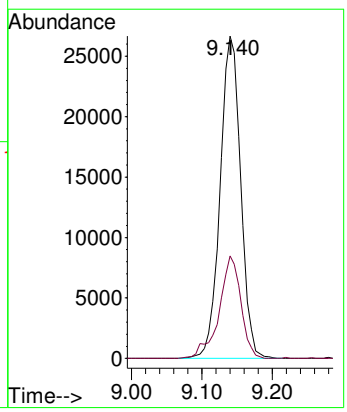




#45
1,2-Dichloropropane
Concen: 20.850 ug/l
RT: 9.140 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 63 Resp: 5406

Ion	Ratio	Lower	Upper
63	100		
65	31.8	25.1	37.7



Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

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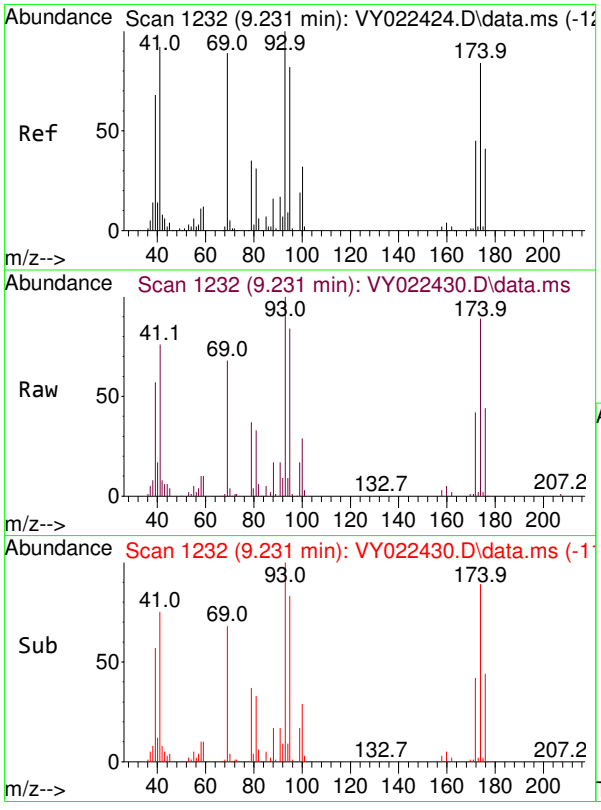
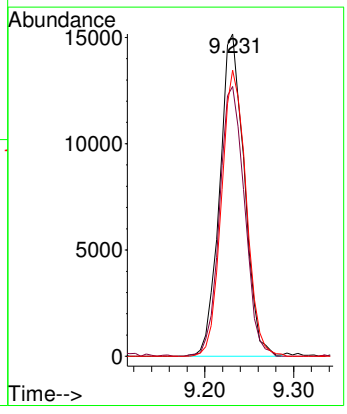
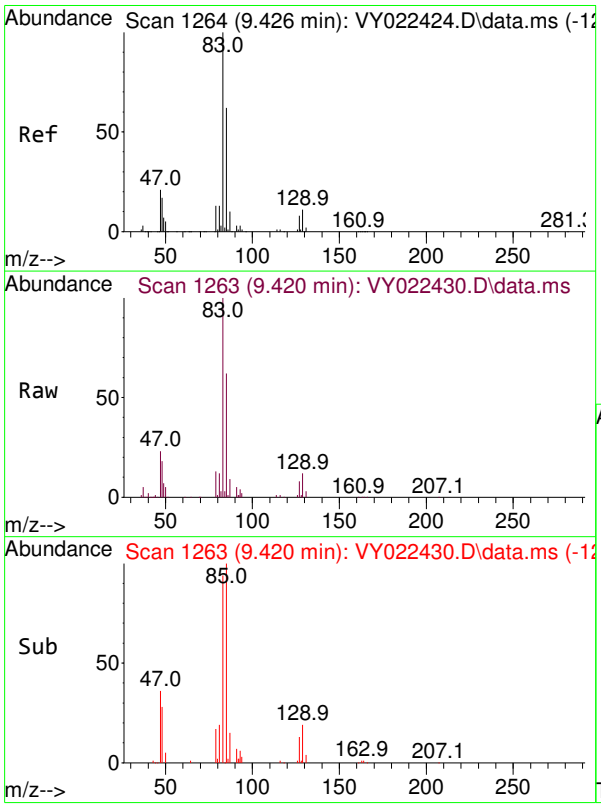


#46
Dibromomethane
Concen: 20.254 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.000 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 93 Resp: 29341

Ion	Ratio	Lower	Upper
93	100		
95	84.9	66.2	99.2
174	88.9	71.1	106.7





#47
Bromodichloromethane
Concen: 20.656 ug/l
RT: 9.420 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 83 Resp: 7694

Ion	Ratio	Lower	Upper
83	100		
85	62.1	49.8	74.6
127	8.3	6.6	9.8

Instrument :
MSVOA_Y
ClientSampleId :
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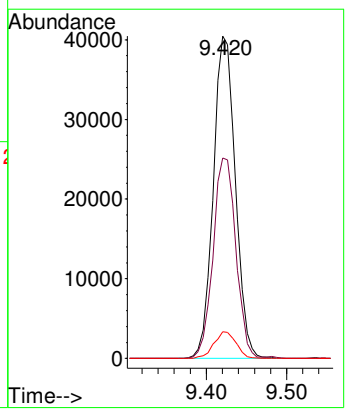
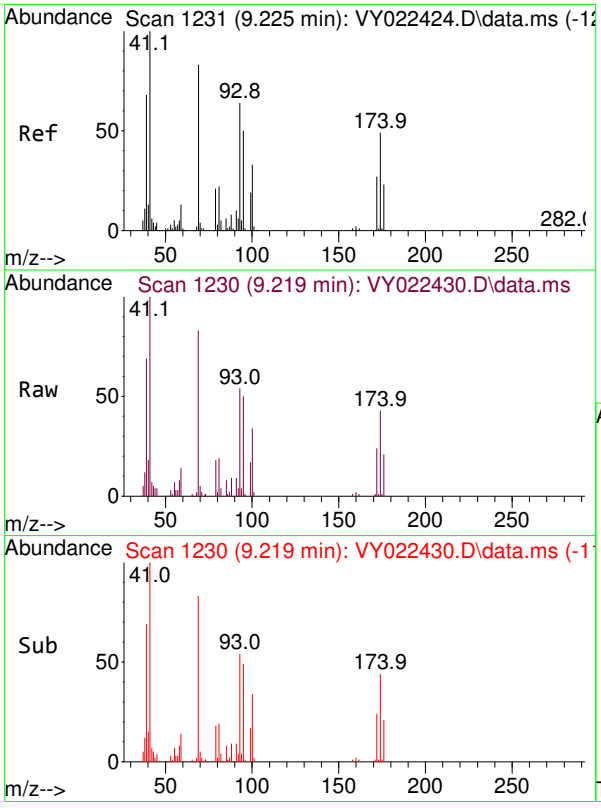
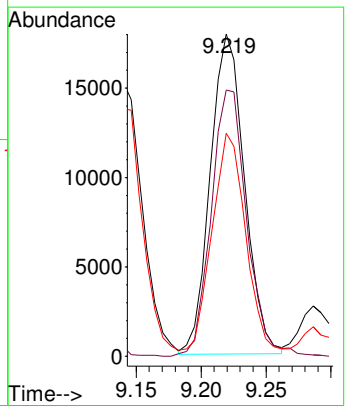


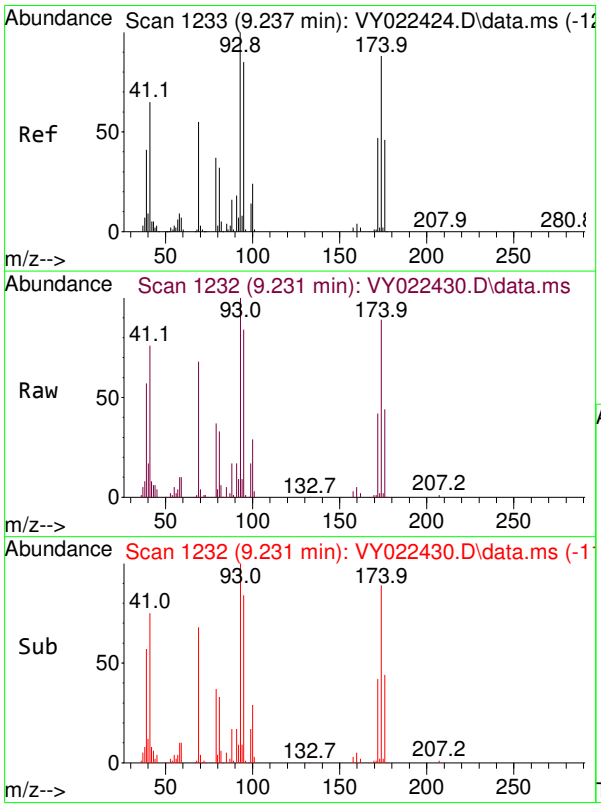


#48
Methyl methacrylate
Concen: 20.495 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 41 Resp: 32772

Ion	Ratio	Lower	Upper
41	100		
69	86.7	70.3	105.5
39	66.0	55.4	83.0

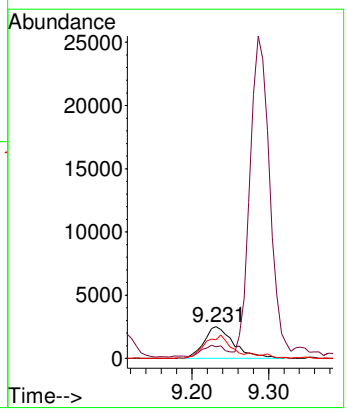




#49
1,4-Dioxane
Concen: 421.110 ug/l
RT: 9.231 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 88 Resp: 673

Ion	Ratio	Lower	Upper
88	100		
43	26.0	26.9	40.3
58	68.9	55.8	83.6



Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

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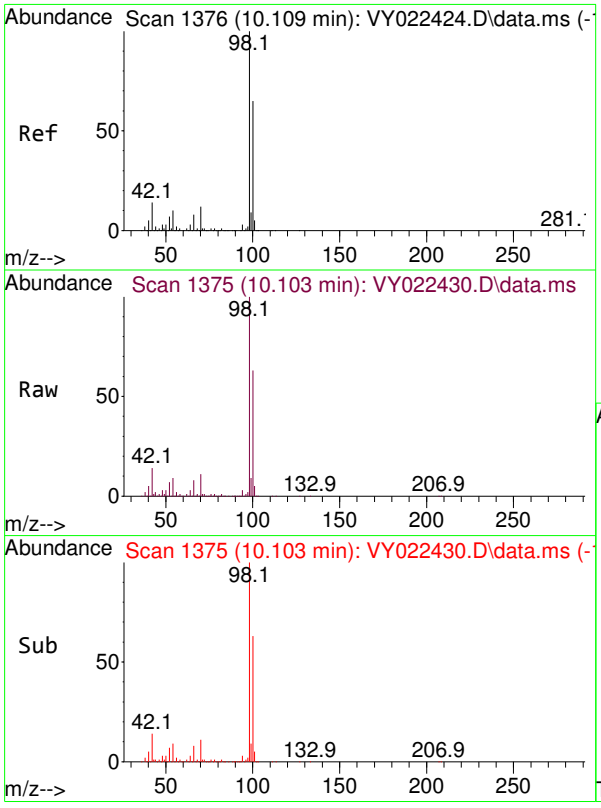
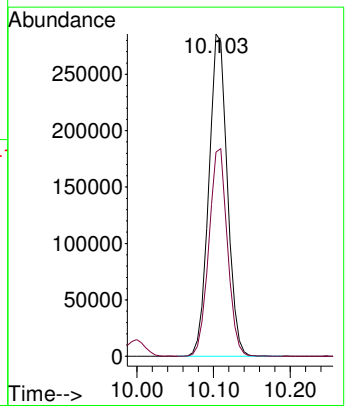
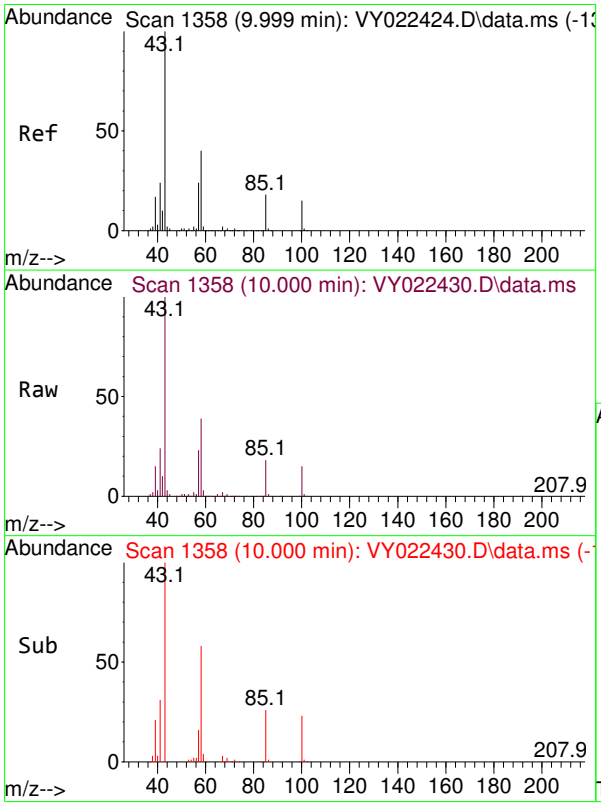


#50
Toluene-d8
Concen: 50.229 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 98 Resp: 478633

Ion	Ratio	Lower	Upper
98	100		
100	64.8	52.2	78.2





#51
4-Methyl-2-Pentanone
Concen: 99.209 ug/l
RT: 10.000 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 43 Resp: 16861

Ion	Ratio	Lower	Upper
43	100		
58	39.4	31.2	46.8

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

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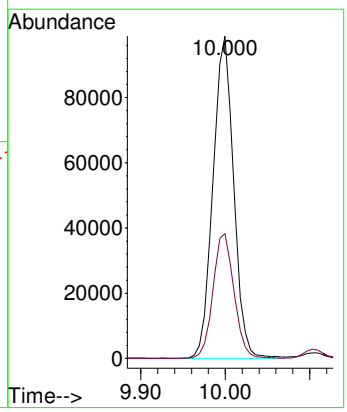
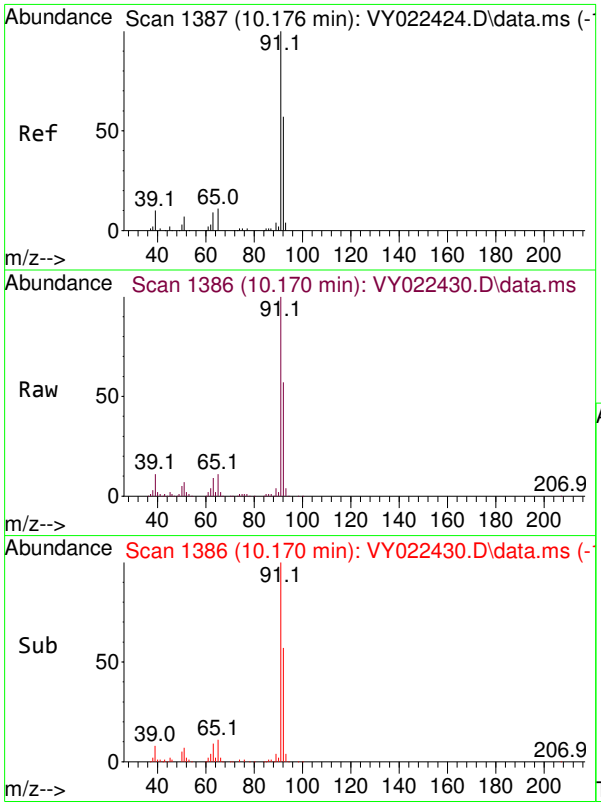
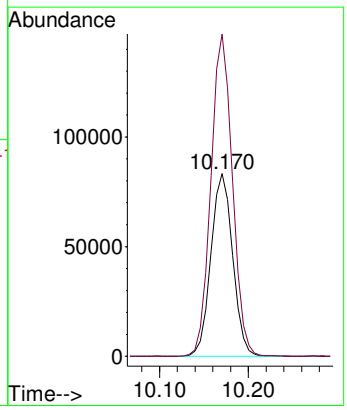


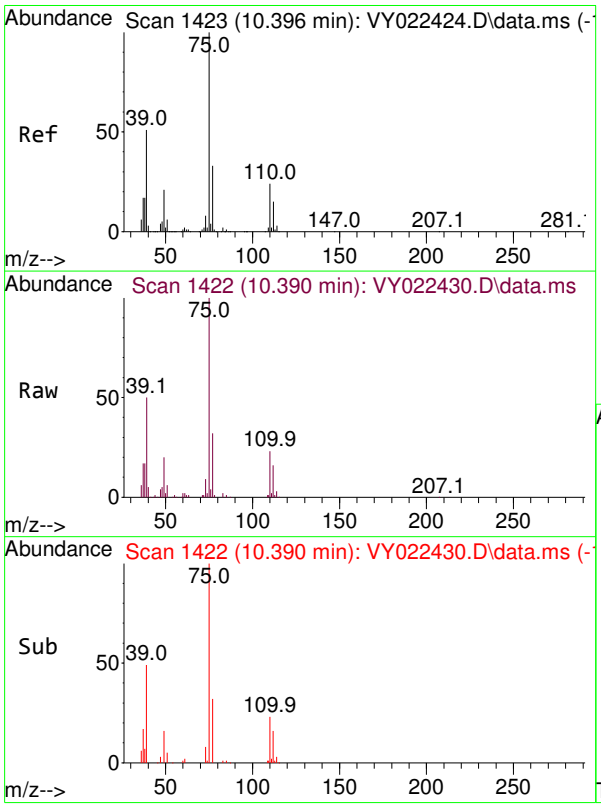


#52
Toluene
Concen: 20.644 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 92 Resp: 142314

Ion	Ratio	Lower	Upper
92	100		
91	174.3	139.8	209.6

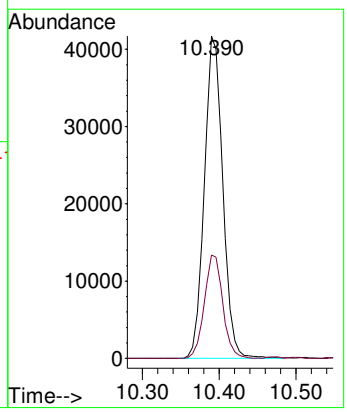




#53
t-1,3-Dichloropropene
Concen: 20.054 ug/l
RT: 10.390 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 75 Resp: 6958

Ion	Ratio	Lower	Upper
75	100		
77	32.1	26.2	39.2



Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

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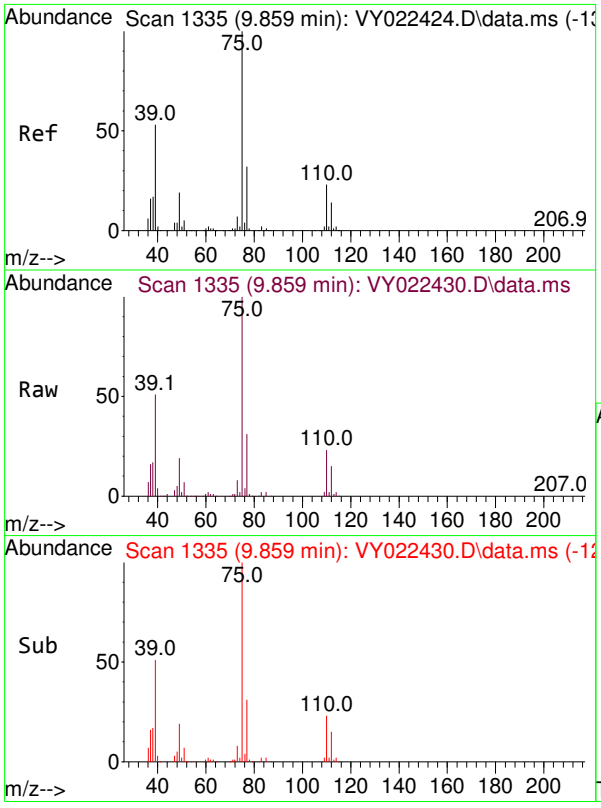
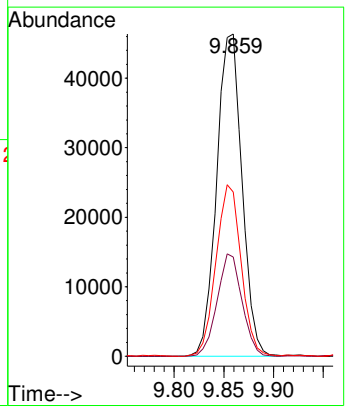
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

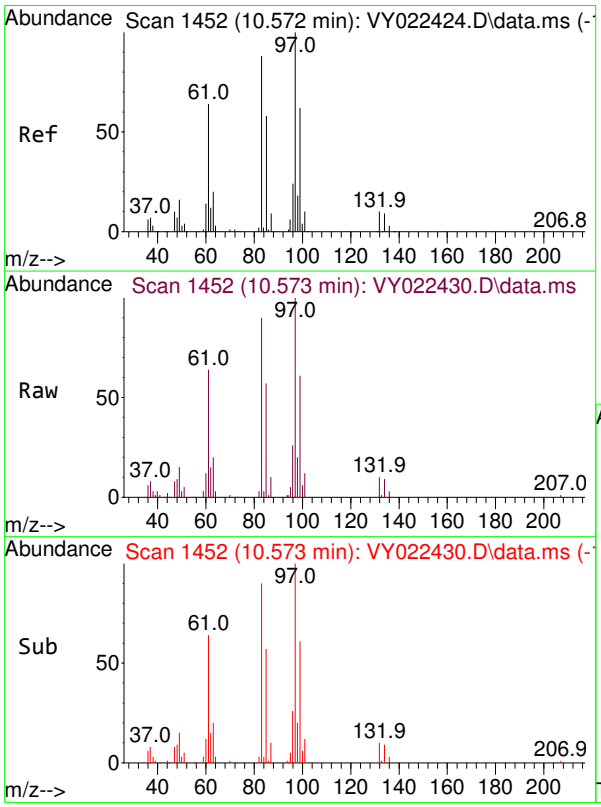


#54
cis-1,3-Dichloropropene
Concen: 20.276 ug/l
RT: 9.859 min Scan# 1335
Delta R.T. 0.000 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 75 Resp: 82670

Ion	Ratio	Lower	Upper
75	100		
77	30.8	25.4	38.2
39	50.9	42.5	63.7

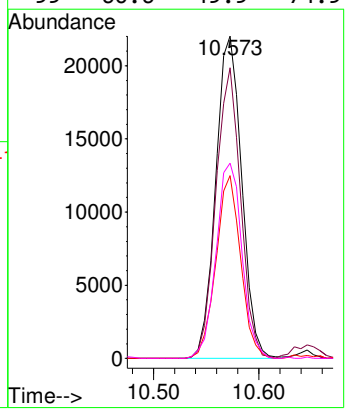




#55
1,1,2-Trichloroethane
Concen: 20.663 ug/l
RT: 10.573 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 97 Resp: 3784

Ion	Ratio	Lower	Upper
97	100		
83	90.1	70.2	105.4
85	56.7	46.1	69.1
99	60.6	49.9	74.9



Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

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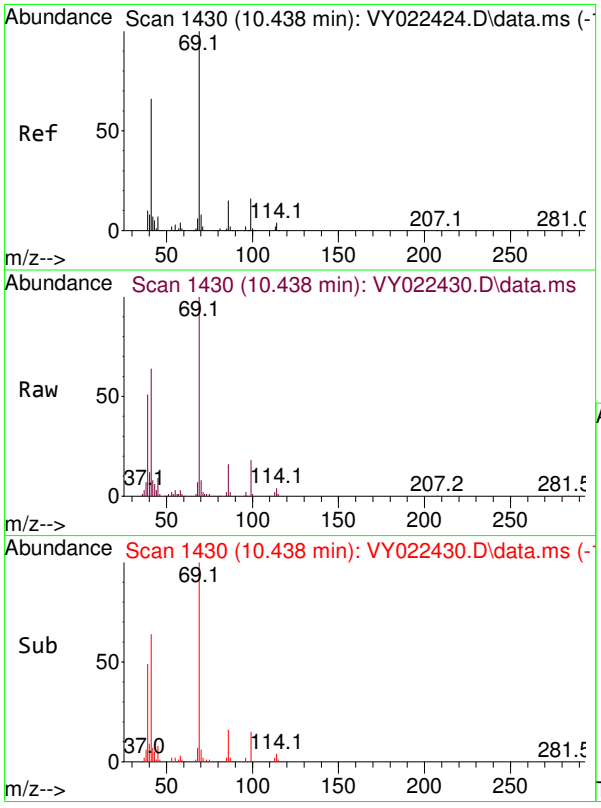
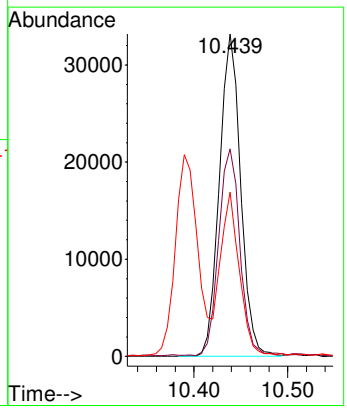
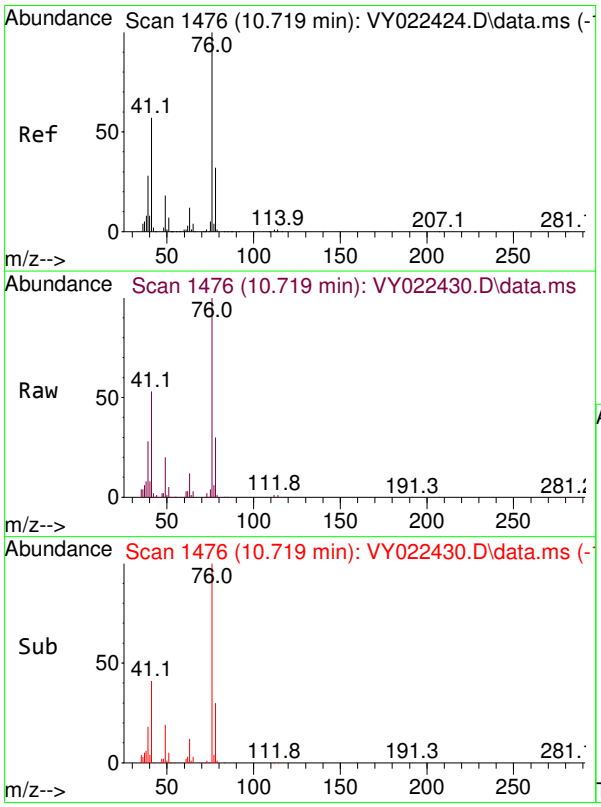


#56
Ethyl methacrylate
Concen: 19.796 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 69 Resp: 52031

Ion	Ratio	Lower	Upper
69	100		
41	63.9	51.2	76.8
39	43.4	35.2	52.8





#57
1,3-Dichloropropane
Concen: 20.537 ug/l
RT: 10.719 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 76 Resp: 6628

Ion	Ratio	Lower	Upper
76	100		
78	32.0	25.8	38.8

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

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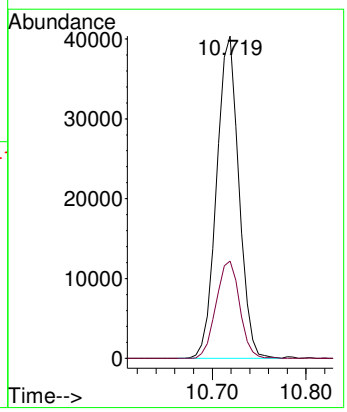
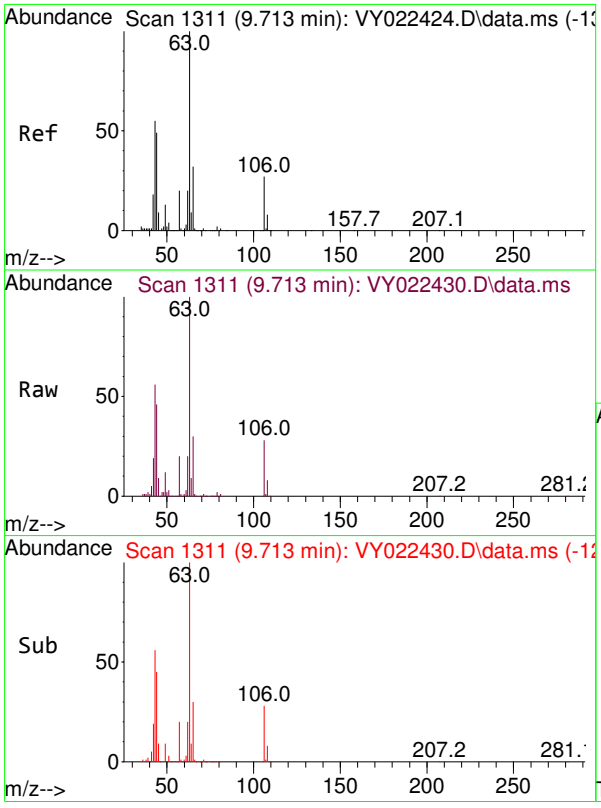
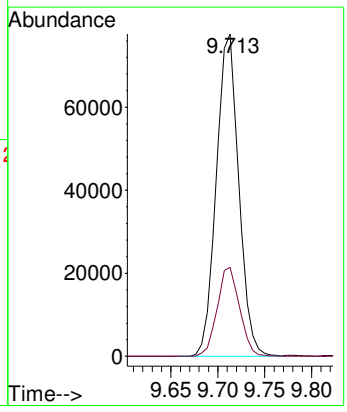


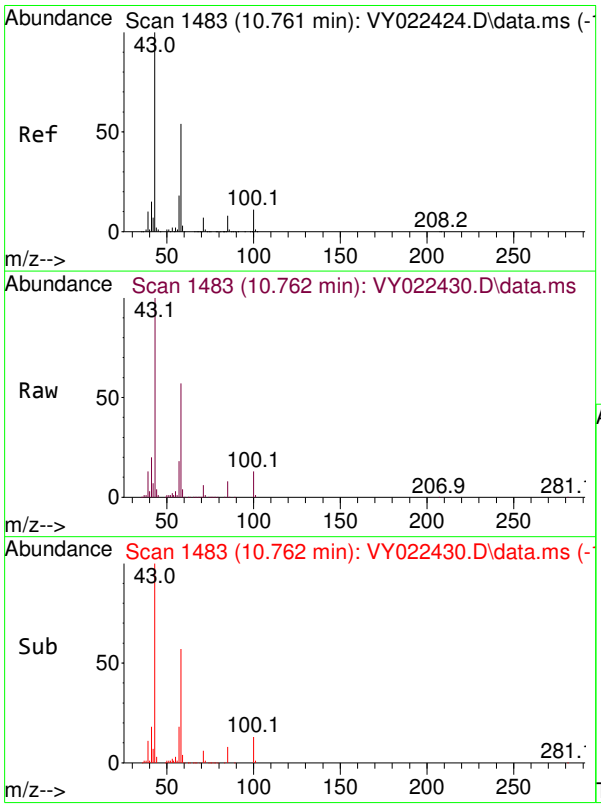


#58
2-Chloroethyl Vinyl ether
Concen: 98.573 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. 0.000 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 63 Resp: 129124

Ion	Ratio	Lower	Upper
63	100		
106	27.5	22.2	33.2





#59
2-Hexanone
Concen: 97.487 ug/l
RT: 10.762 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 43 Resp: 10858

Ion	Ratio	Lower	Upper
43	100		
58	56.0	27.1	81.2

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

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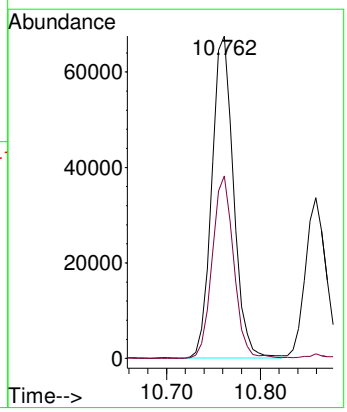
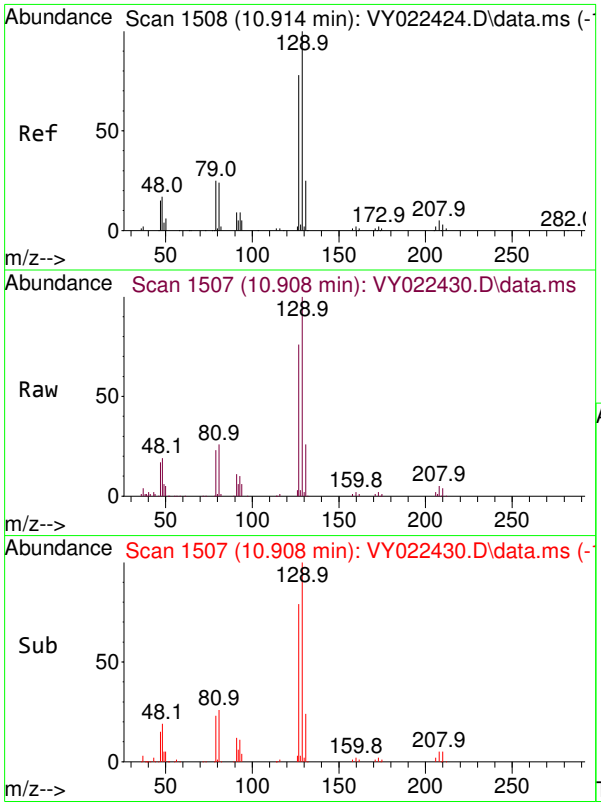
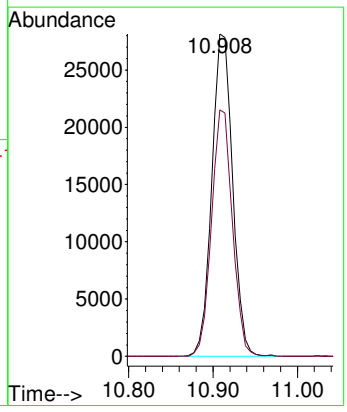


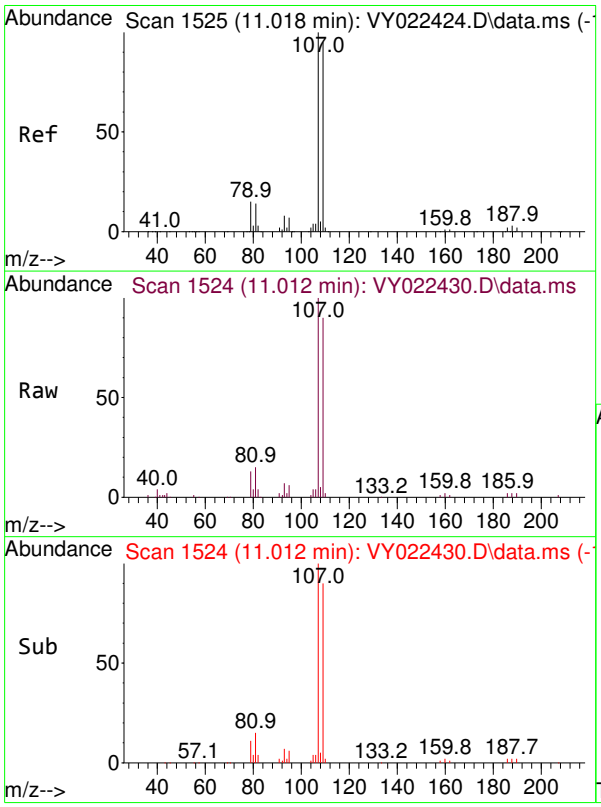


#60
Dibromochloromethane
Concen: 20.669 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion:129 Resp: 48358

Ion	Ratio	Lower	Upper
129	100		
127	76.7	38.3	114.8





#61
1,2-Dibromoethane
Concen: 20.330 ug/l
RT: 11.012 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion:107 Resp: 3405

Ion	Ratio	Lower	Upper
107	100		
109	95.7	74.0	111.0

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

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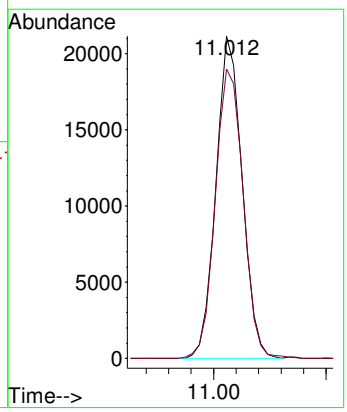
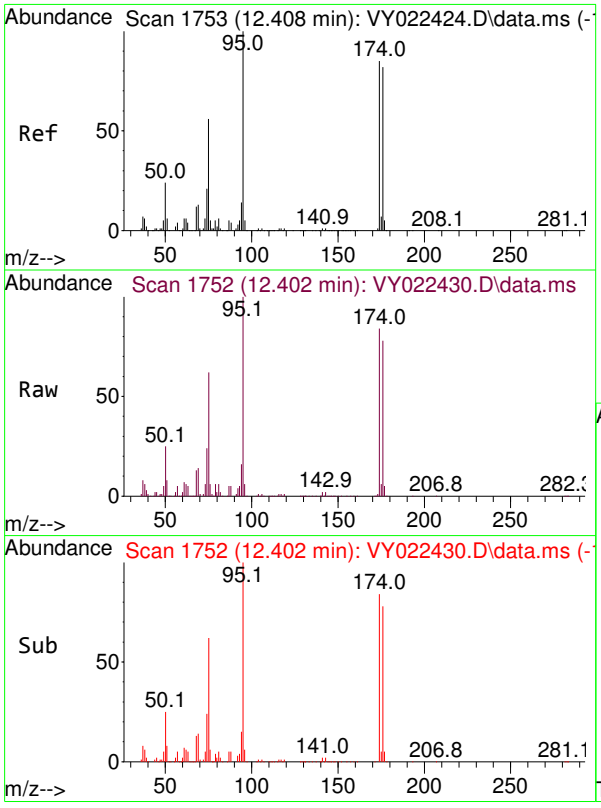
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

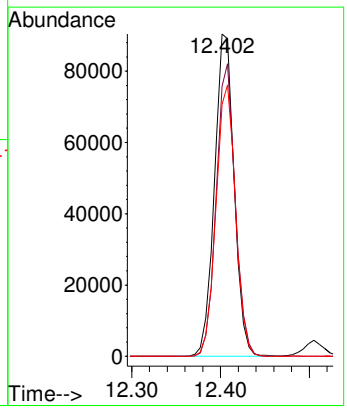


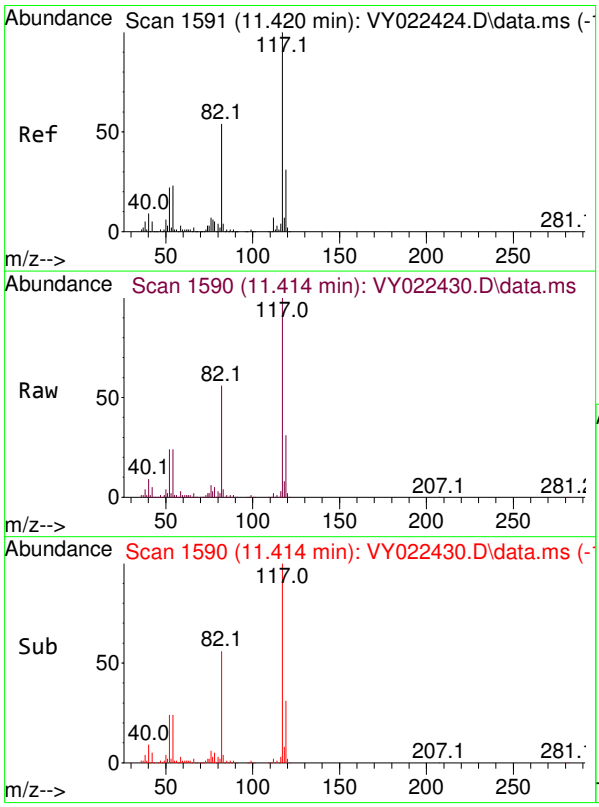


#62
4-Bromofluorobenzene
Concen: 48.553 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 95 Resp: 139946

Ion	Ratio	Lower	Upper
95	100		
174	87.5	0.0	171.6
176	83.6	0.0	164.6





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion:117 Resp: 34046

Ion	Ratio	Lower	Upper
117	100		
82	55.9	43.3	64.9
119	31.2	24.5	36.7

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

Manual Integrations
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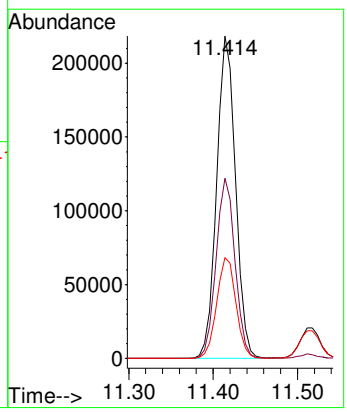
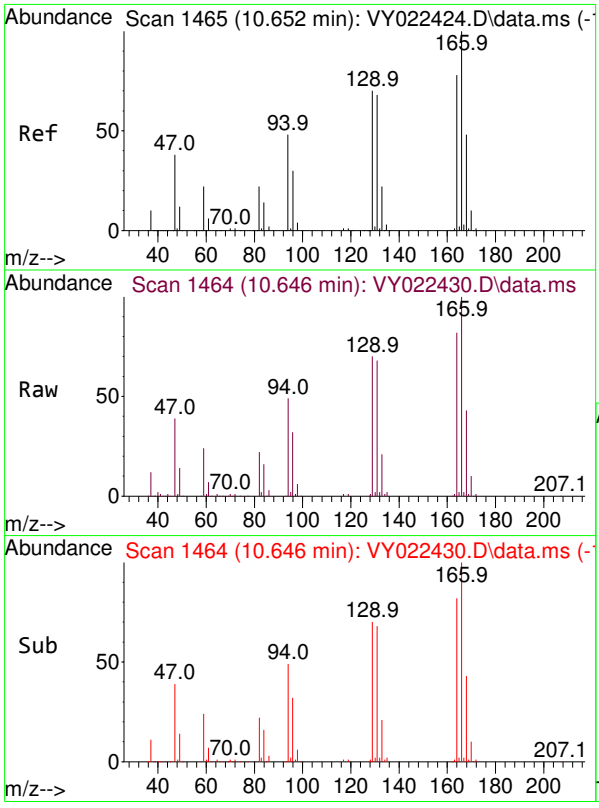
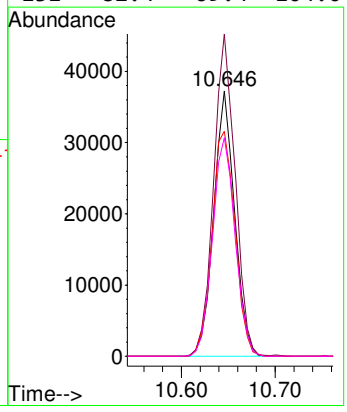


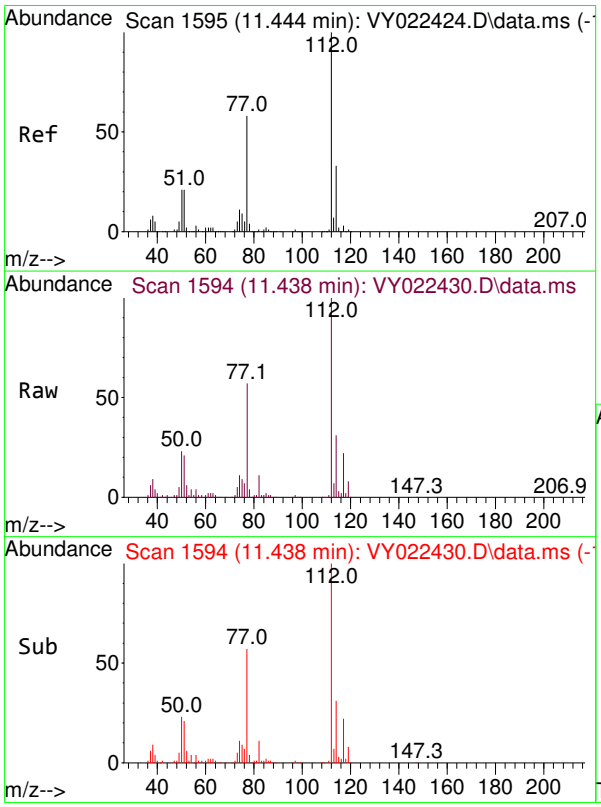


#64
Tetrachloroethene
Concen: 19.905 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion:164 Resp: 57716

Ion	Ratio	Lower	Upper
164	100		
166	121.6	102.0	153.0
129	84.8	71.3	106.9
131	82.4	69.4	104.0





#65
Chlorobenzene
Concen: 20.283 ug/l
RT: 11.438 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion:112 Resp: 14724

Ion	Ratio	Lower	Upper
112	100		
114	31.1	26.1	39.1

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

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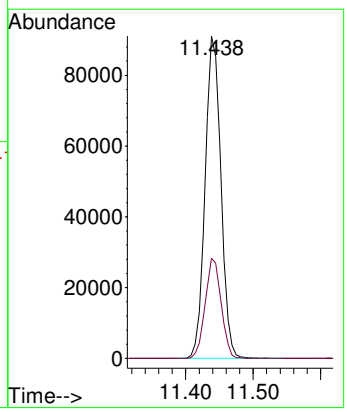
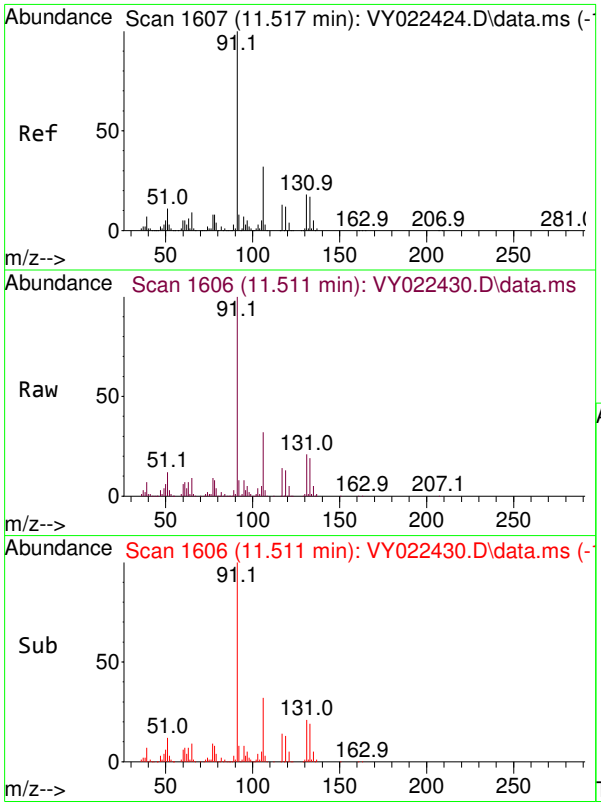
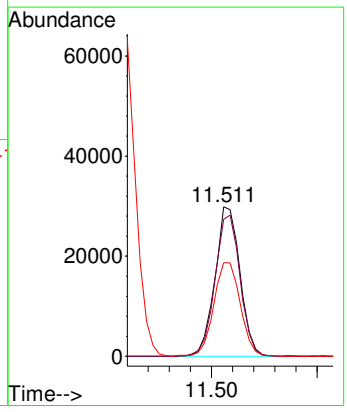


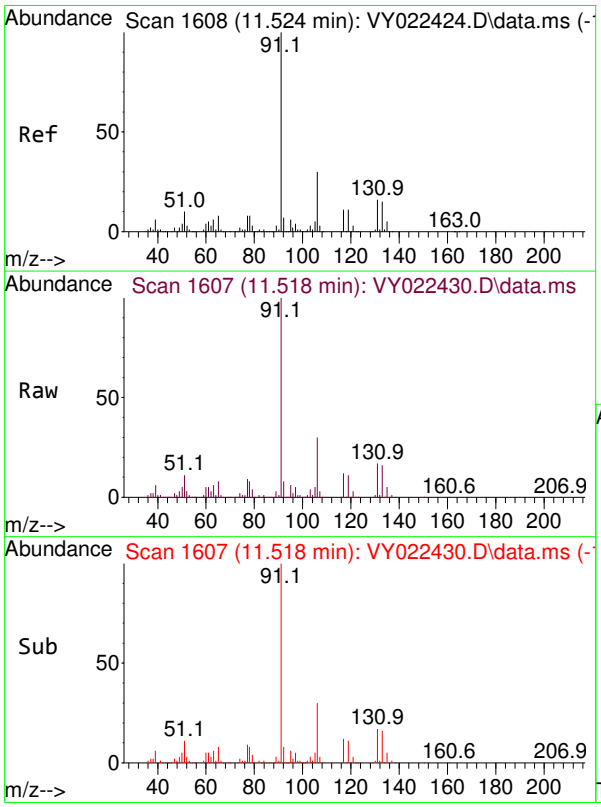


#66
1,1,1,2-Tetrachloroethane
Concen: 19.946 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion:131 Resp: 49061

Ion	Ratio	Lower	Upper
131	100		
133	95.4	46.6	139.8
119	67.0	33.3	99.8

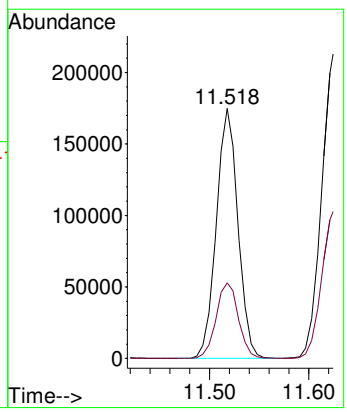




#67
Ethyl Benzene
Concen: 19.704 ug/l
RT: 11.518 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 91 Resp: 26560

Ion	Ratio	Lower	Upper
91	100		
106	30.2	24.4	36.6



Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

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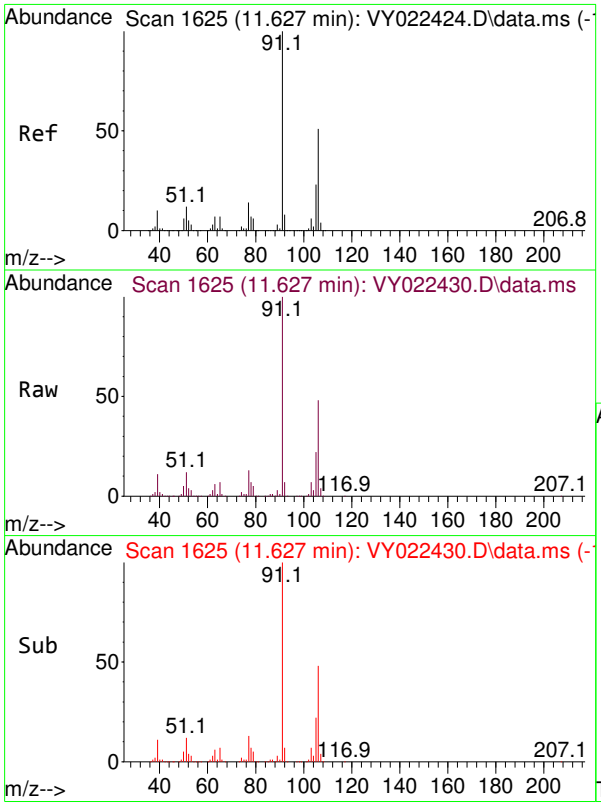
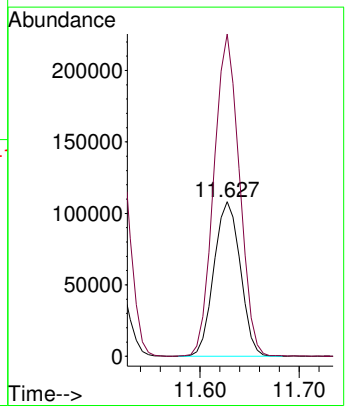
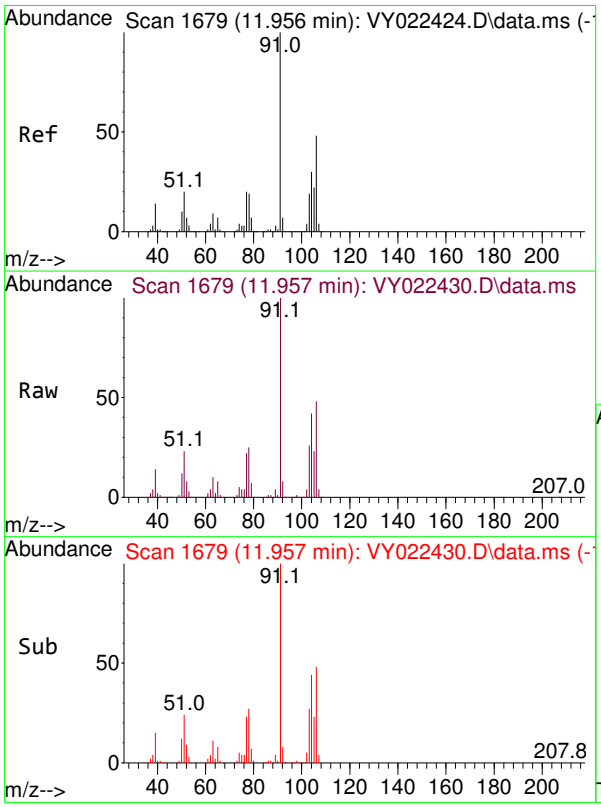


#68
m/p-Xylenes
Concen: 39.260 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.000 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion:106 Resp: 200646

Ion	Ratio	Lower	Upper
106	100		
91	202.4	159.8	239.8





#69
o-Xylene
Concen: 19.811 ug/l
RT: 11.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion:106 Resp: 9515

Ion	Ratio	Lower	Upper
106	100		
91	212.2	106.3	318.9

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

Manual Integrations
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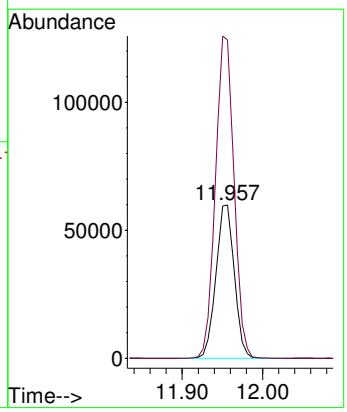
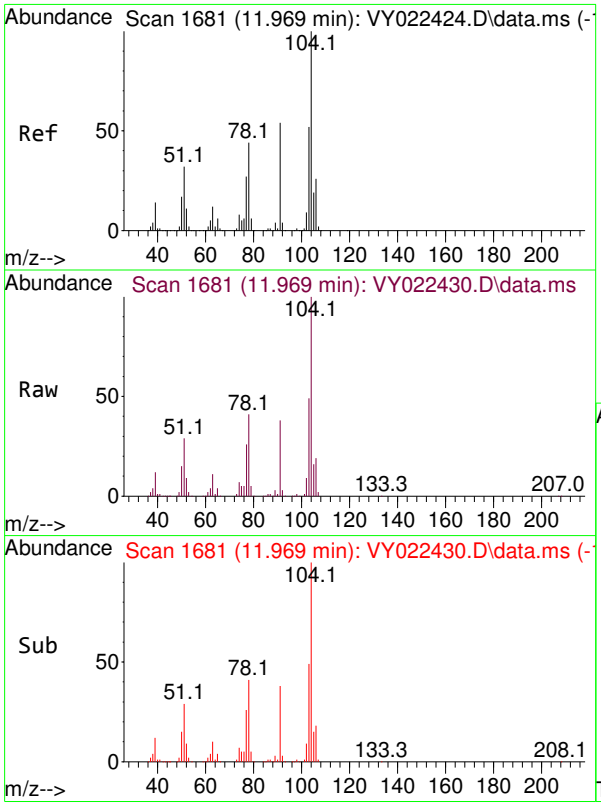
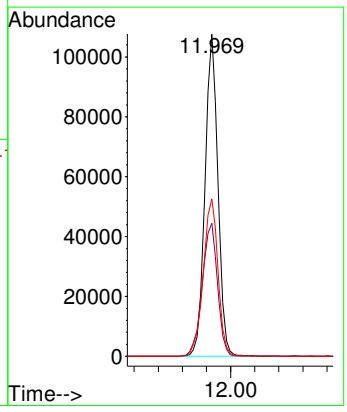


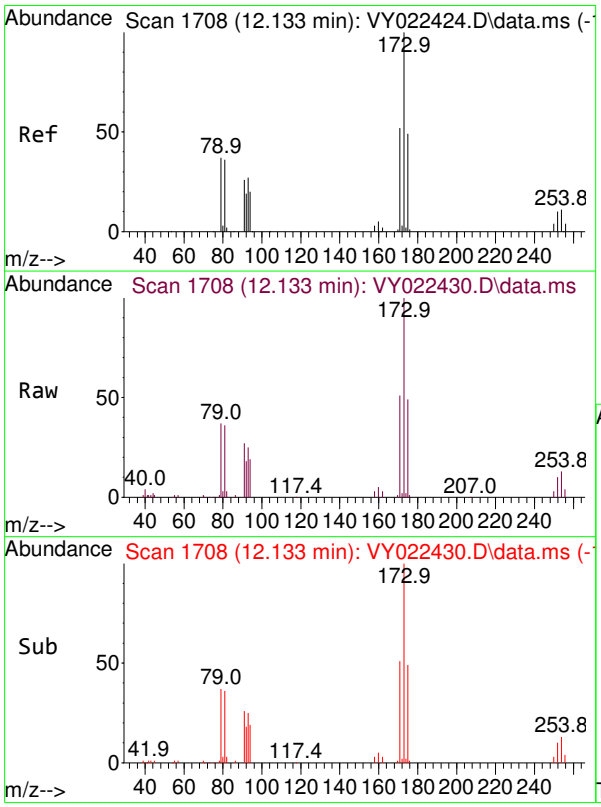


#70
Styrene
Concen: 19.999 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion:104 Resp: 159948

Ion	Ratio	Lower	Upper
104	100		
78	48.6	38.8	58.2
103	55.7	43.4	65.2





#71
Bromoform
Concen: 19.982 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion:173 Resp: 2574

Ion	Ratio	Lower	Upper
173	100		
175	45.7	24.3	73.0
254	0.0	0.1	0.1

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

Manual Integrations
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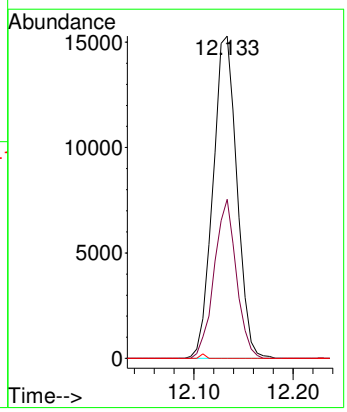
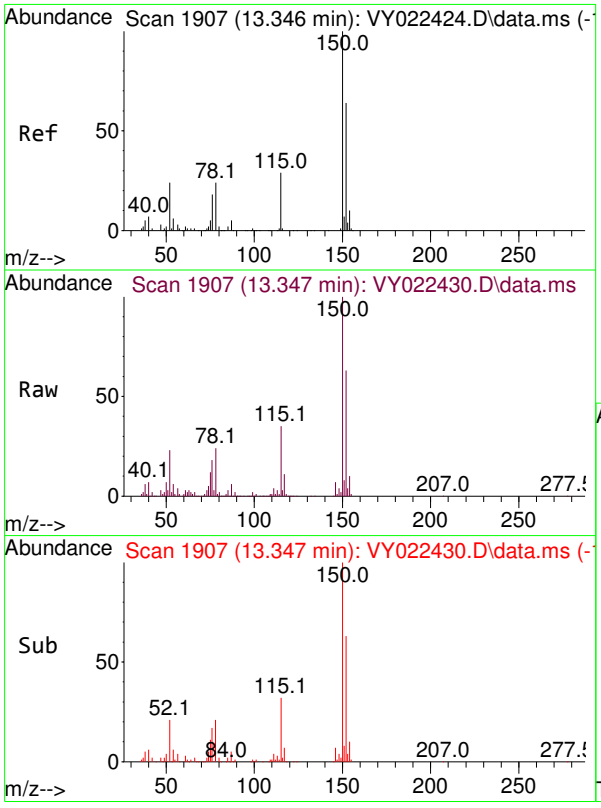
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

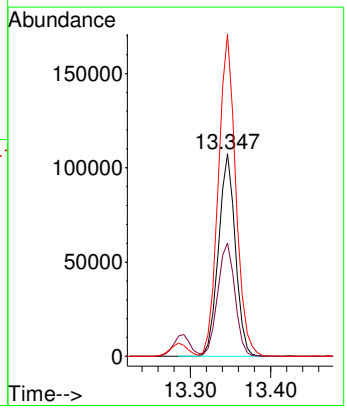


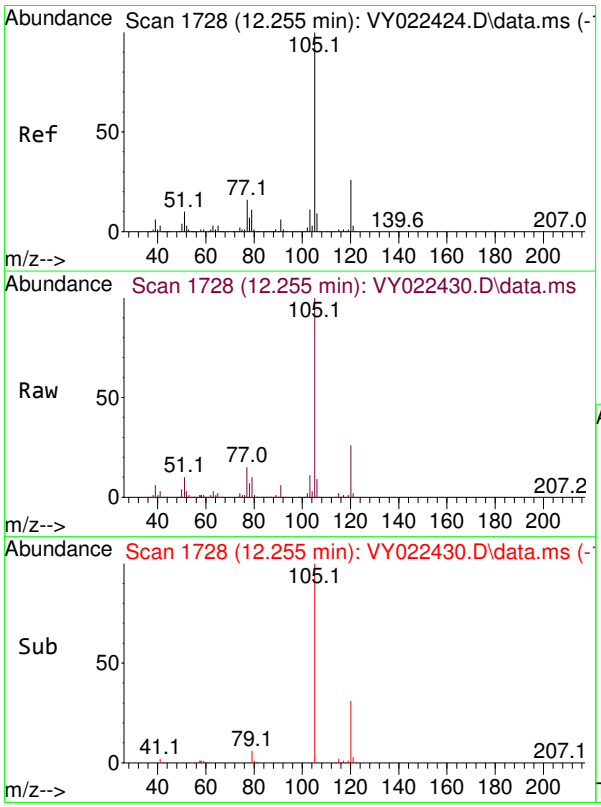


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion:152 Resp: 155764

Ion	Ratio	Lower	Upper
152	100		
115	57.3	28.4	85.3
150	165.7	0.0	345.8





#73
Isopropylbenzene
Concen: 20.438 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion:105 Resp: 25055

Ion	Ratio	Lower	Upper
105	100		
120	25.7	13.2	39.5

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

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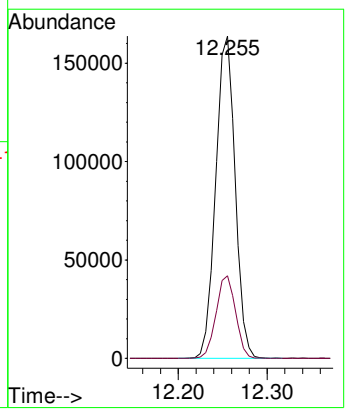
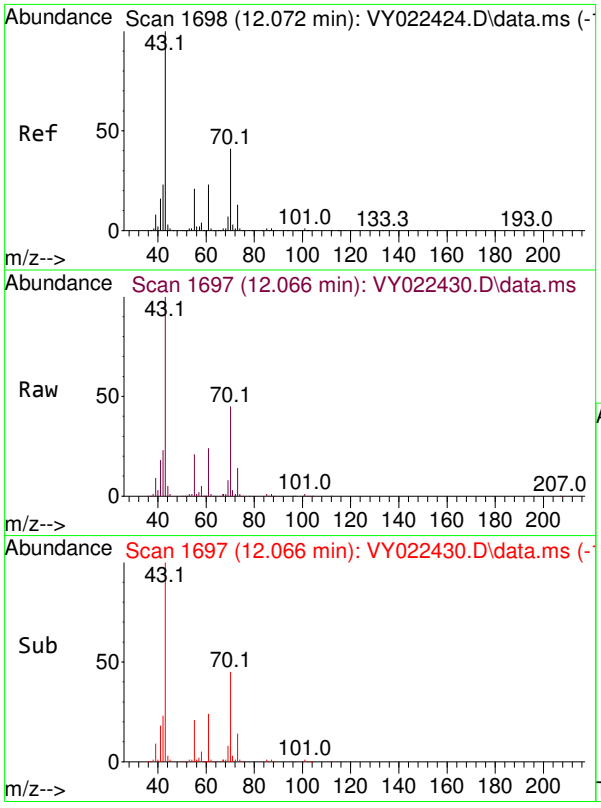
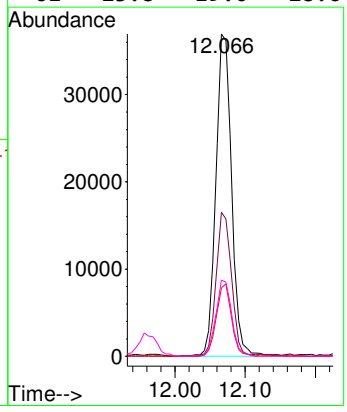


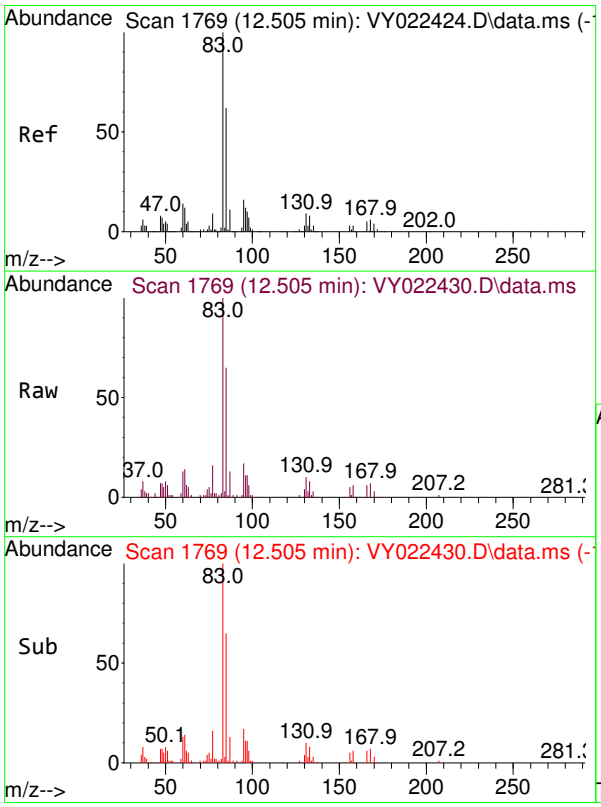


#74
N-amyl acetate
Concen: 19.188 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 43 Resp: 57558

Ion	Ratio	Lower	Upper
43	100		
70	44.1	33.0	49.4
55	21.5	17.5	26.3
61	23.8	19.0	28.6

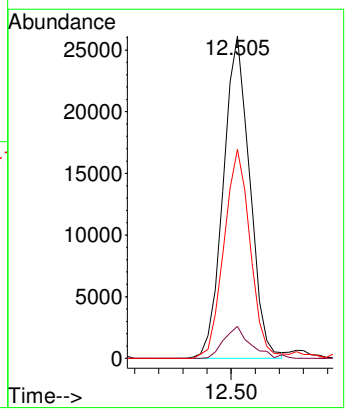




#75
1,1,2,2-Tetrachloroethane
Concen: 20.624 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 83 Resp: 3983

Ion	Ratio	Lower	Upper
83	100		
131	10.0	4.8	14.4
85	64.4	32.0	96.2



Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

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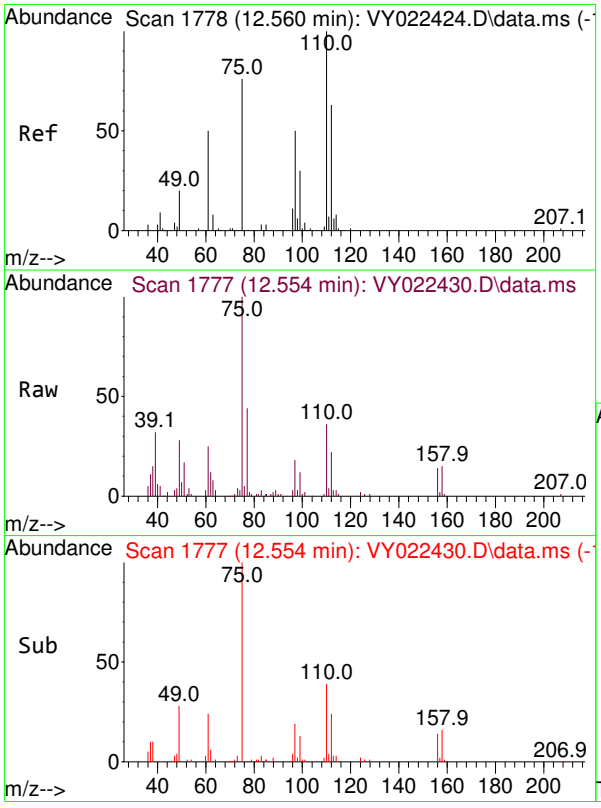
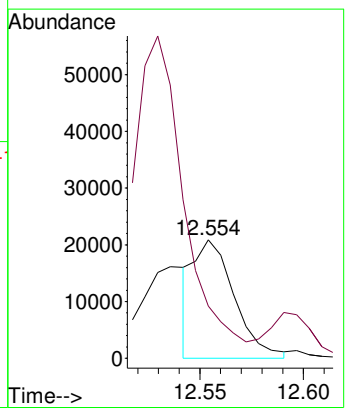
Supervised By :Mahesh Dadoda 05/28/2025

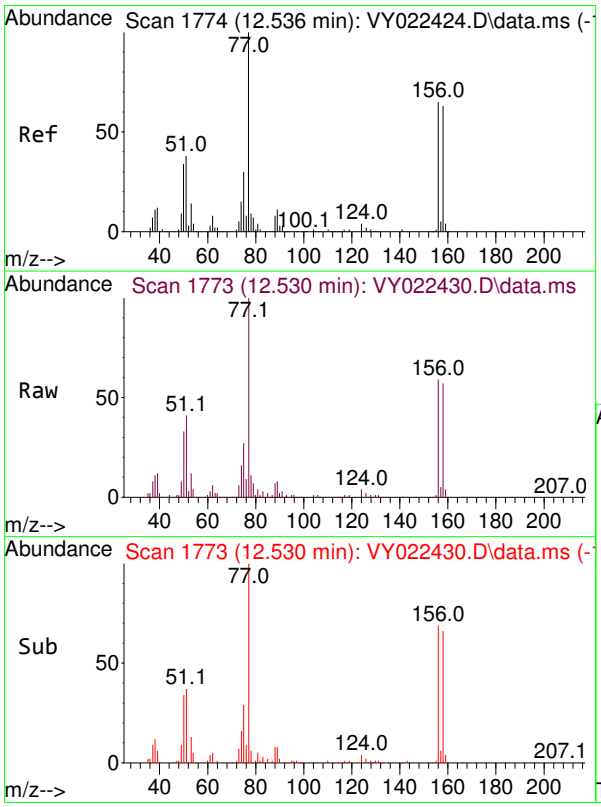


#76
1,2,3-Trichloropropane
Concen: 18.369 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 75 Resp: 28660

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0





#77
Bromobenzene
Concen: 20.170 ug/l
RT: 12.530 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion:156 Resp: 5321

Ion	Ratio	Lower	Upper
156	100		
77	186.6	91.4	274.2
158	97.0	48.1	144.3

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

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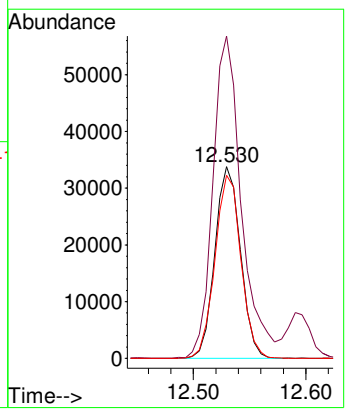
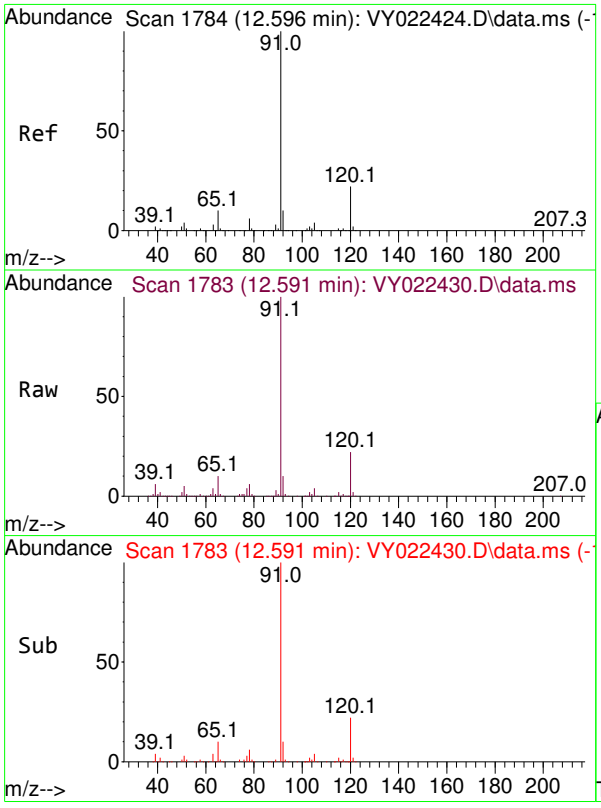
Supervised By :Mahesh Dadoda 05/28/2025

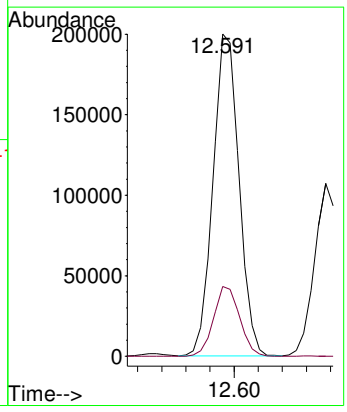


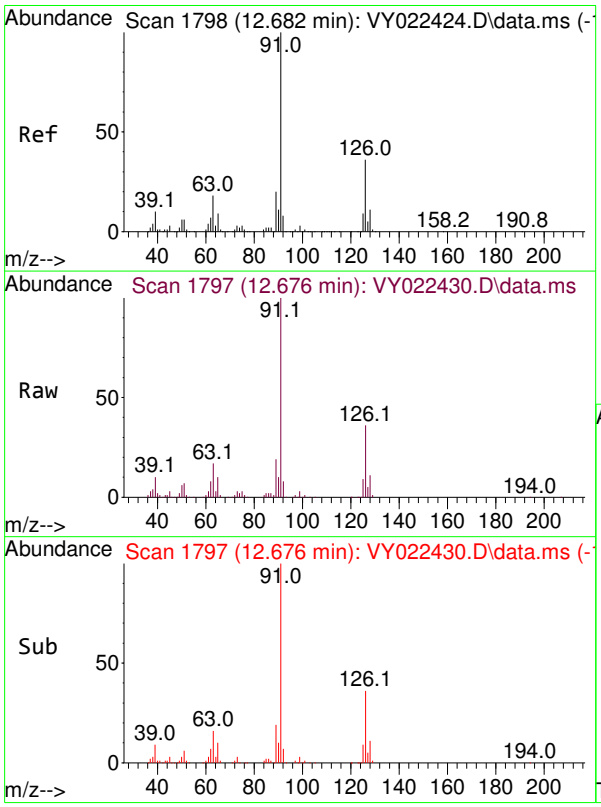


#78
n-propylbenzene
Concen: 20.305 ug/l
RT: 12.591 min Scan# 1783
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 91 Resp: 298731

Ion	Ratio	Lower	Upper
91	100		
120	21.8	11.2	33.5





#79
2-Chlorotoluene
Concen: 20.133 ug/l
RT: 12.676 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 91 Resp: 16033

Ion	Ratio	Lower	Upper
91	100		
126	35.3	17.4	52.3

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

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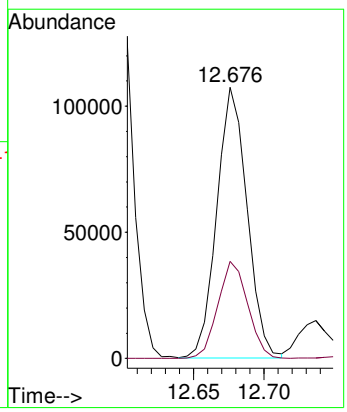
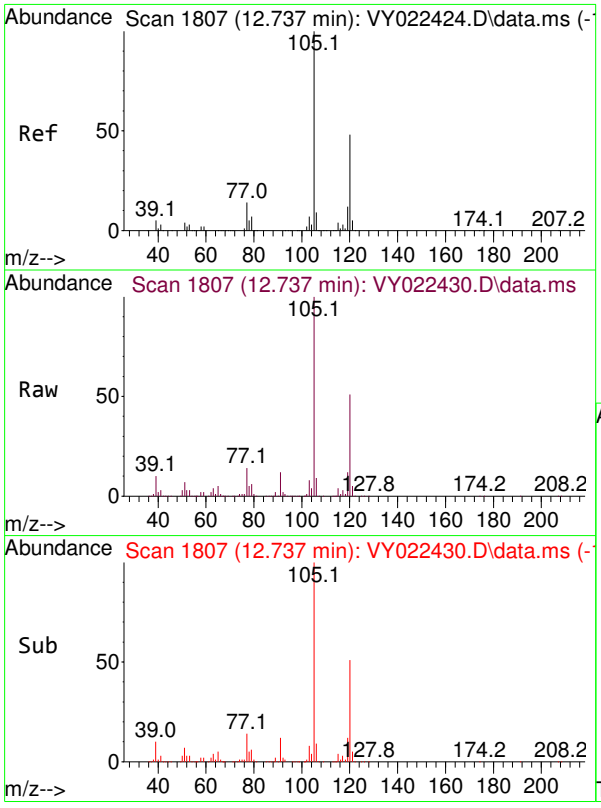
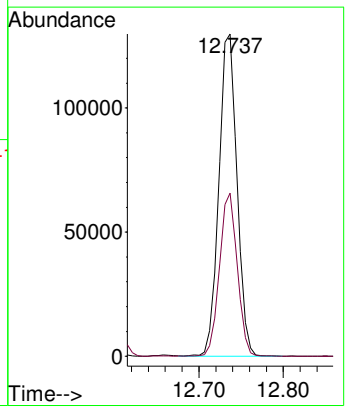


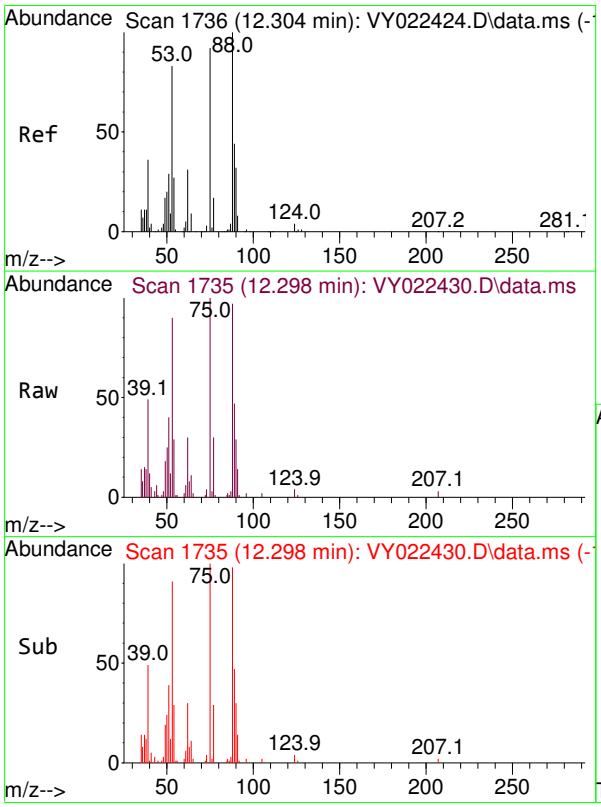


#80
1,3,5-Trimethylbenzene
Concen: 20.270 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion:105 Resp: 194158

Ion	Ratio	Lower	Upper
105	100		
120	49.7	24.3	73.0





#81
trans-1,4-Dichloro-2-butene
Concen: 19.077 ug/l
RT: 12.298 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 75 Resp: 1316

Ion	Ratio	Lower	Upper
75	100		
53	100.4	75.1	112.7
89	48.7	37.4	56.0

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

Manual Integrations
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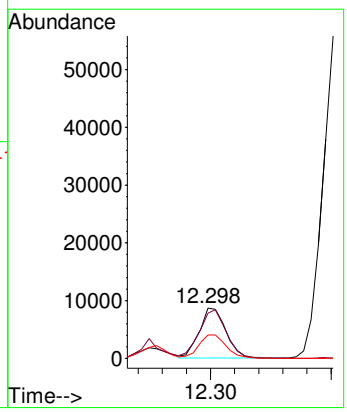
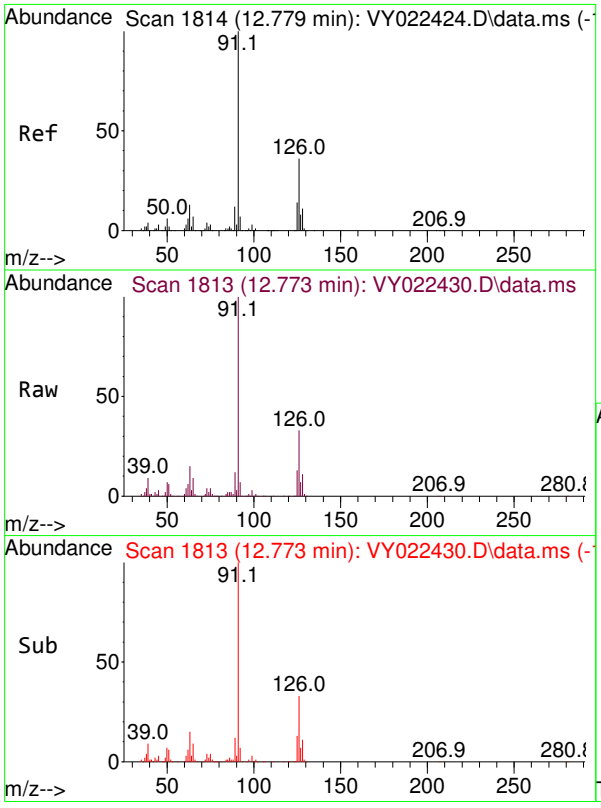
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

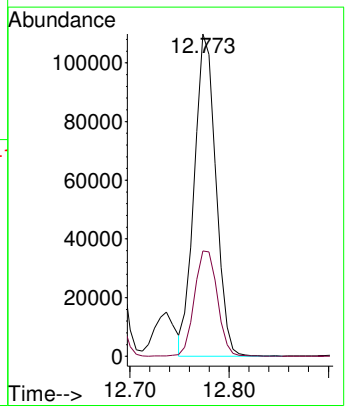


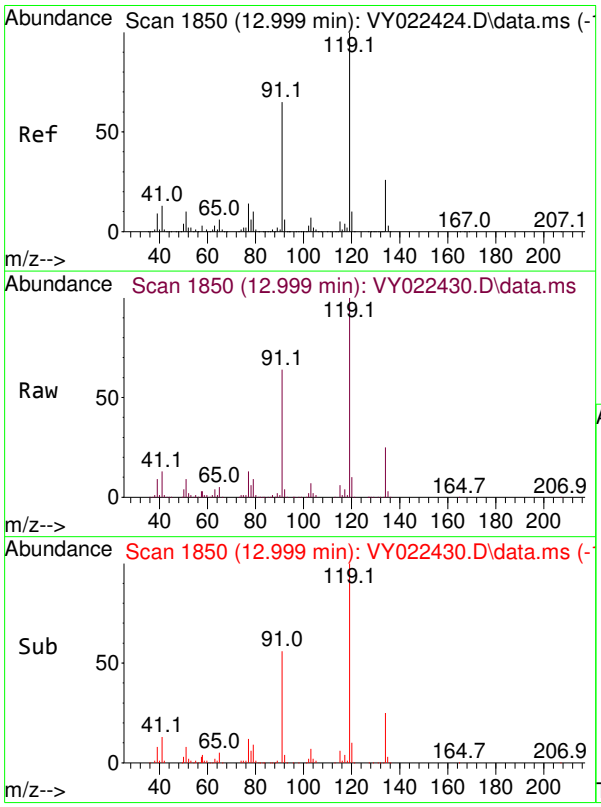


#82
4-Chlorotoluene
Concen: 20.120 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 91 Resp: 165029

Ion	Ratio	Lower	Upper
91	100		
126	34.9	17.2	51.6

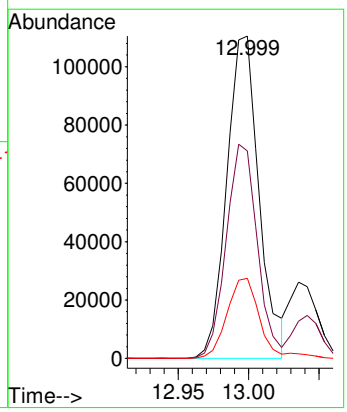




#83
tert-Butylbenzene
Concen: 20.382 ug/l
RT: 12.999 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion:119 Resp: 17639

Ion	Ratio	Lower	Upper
119	100		
91	64.2	31.8	95.3
134	25.5	13.0	38.9



Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

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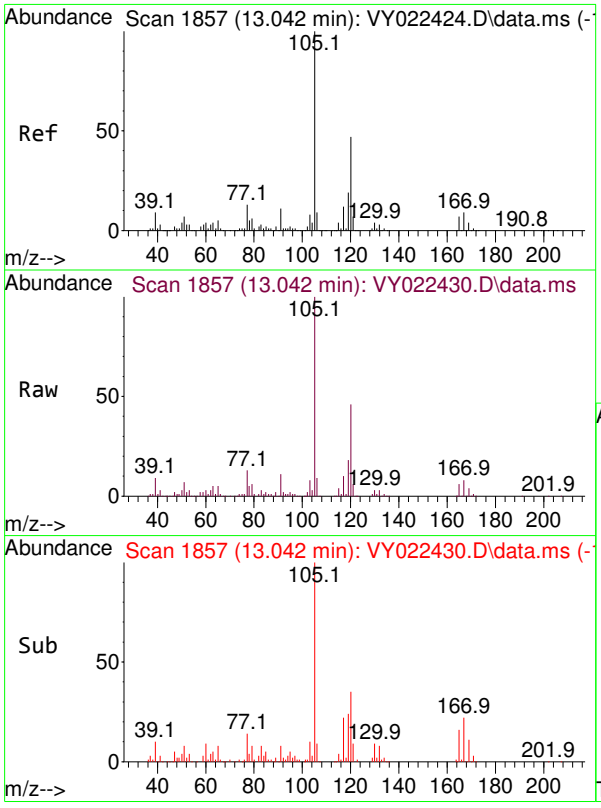
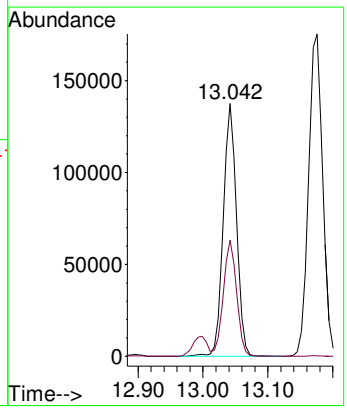
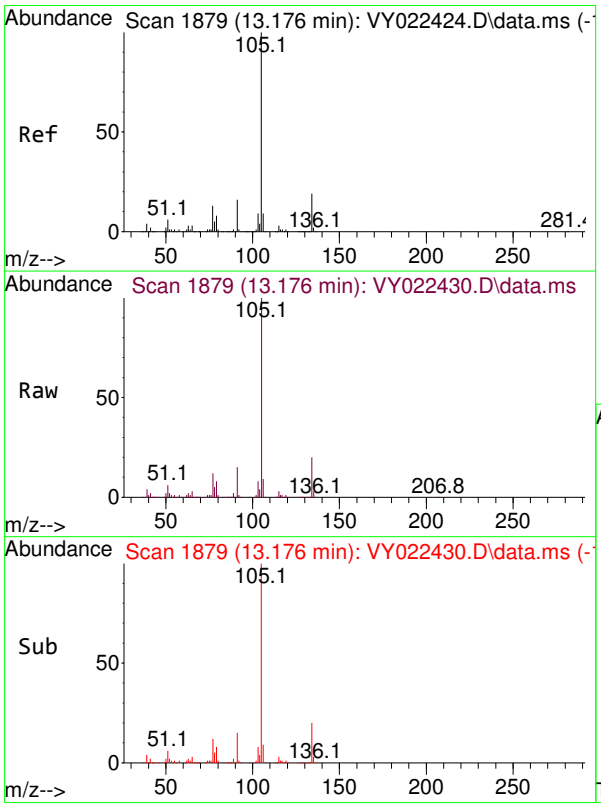


#84
1,2,4-Trimethylbenzene
Concen: 20.306 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.000 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion:105 Resp: 195735

Ion	Ratio	Lower	Upper
105	100		
120	46.0	22.9	68.5





#85
sec-Butylbenzene
Concen: 20.608 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion:105 Resp: 26449

Ion	Ratio	Lower	Upper
105	100		
134	19.4	9.7	29.1

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

Manual Integrations
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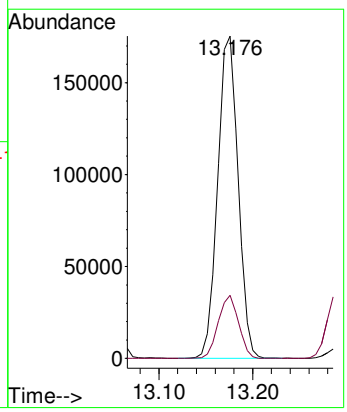
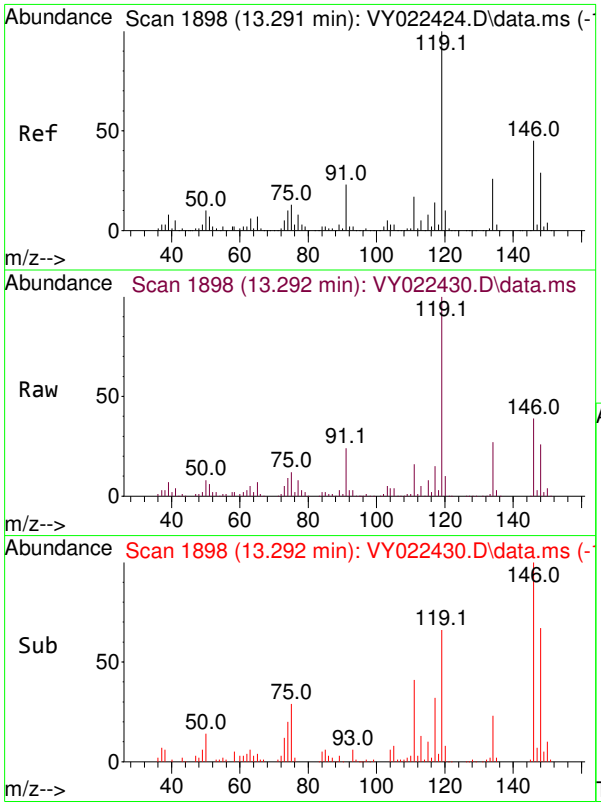
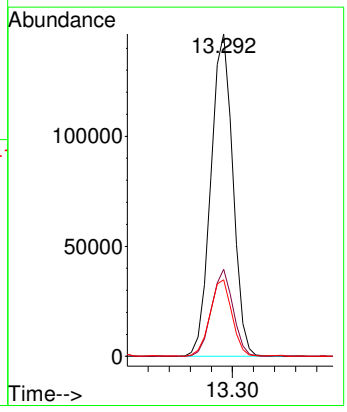


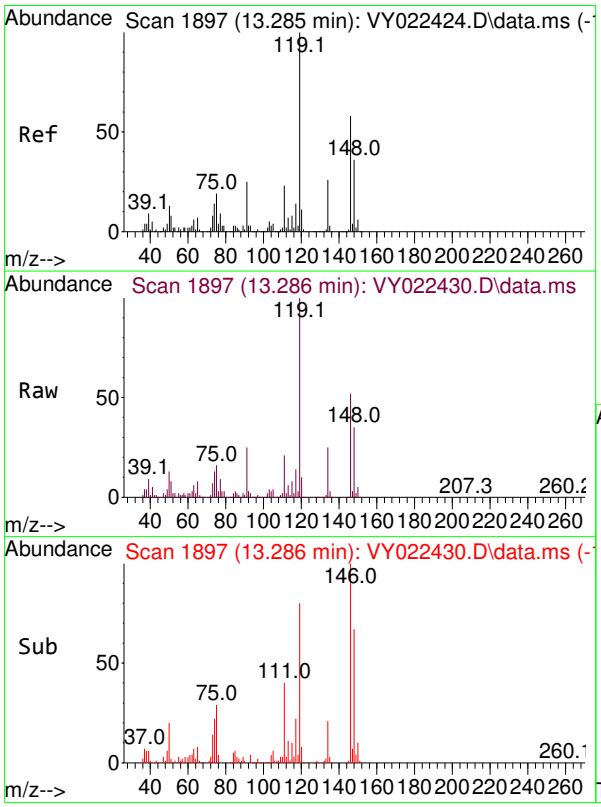


#86
p-Isopropyltoluene
Concen: 19.898 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.000 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion:119 Resp: 213252

Ion	Ratio	Lower	Upper
119	100		
134	26.3	13.0	39.0
91	23.3	11.6	34.8





#87
1,3-Dichlorobenzene
Concen: 19.743 ug/l
RT: 13.286 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion:146 Resp: 10479

Ion	Ratio	Lower	Upper
146	100		
111	40.1	19.6	58.8
148	65.2	31.7	95.1

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

Manual Integrations
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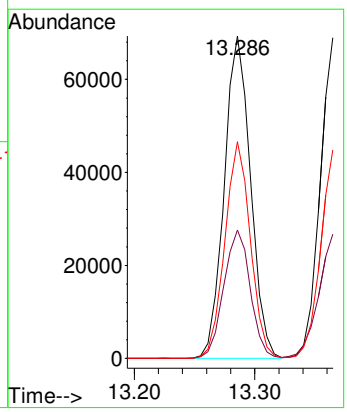
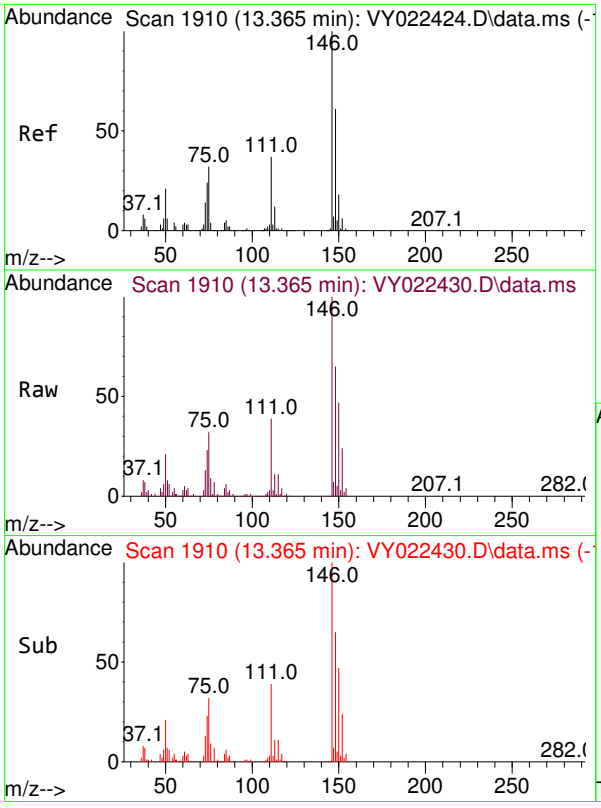
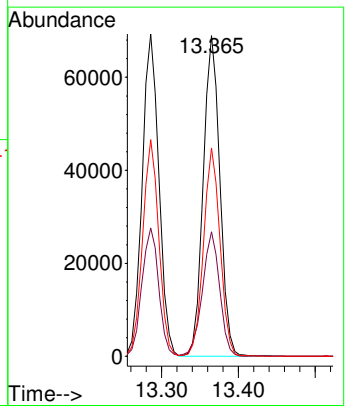


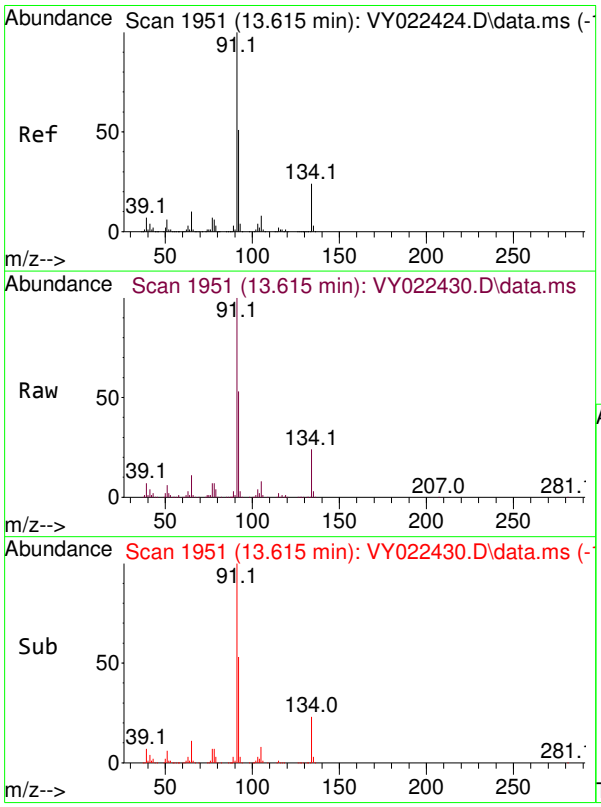


#88
1,4-Dichlorobenzene
Concen: 20.501 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.000 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion:146 Resp: 104056

Ion	Ratio	Lower	Upper
146	100		
111	40.2	18.7	56.1
148	64.3	31.4	94.3





#89
n-Butylbenzene
Concen: 20.376 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 91 Resp: 20475

Ion	Ratio	Lower	Upper
91	100		
92	52.8	25.9	77.6
134	24.3	12.4	37.0

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

Manual Integrations
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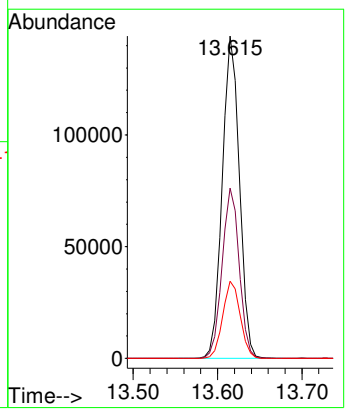
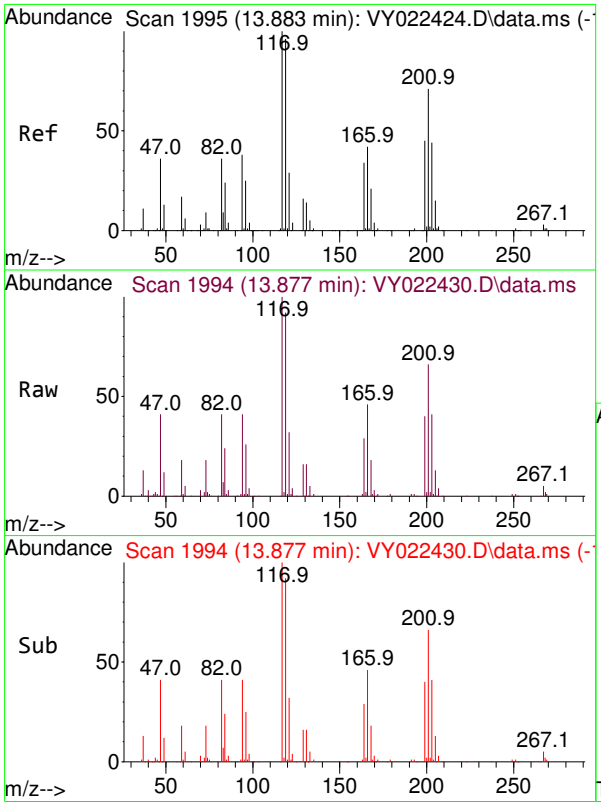
Supervised By :Mahesh Dadoda 05/28/2025

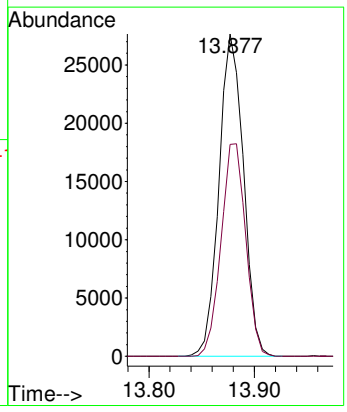


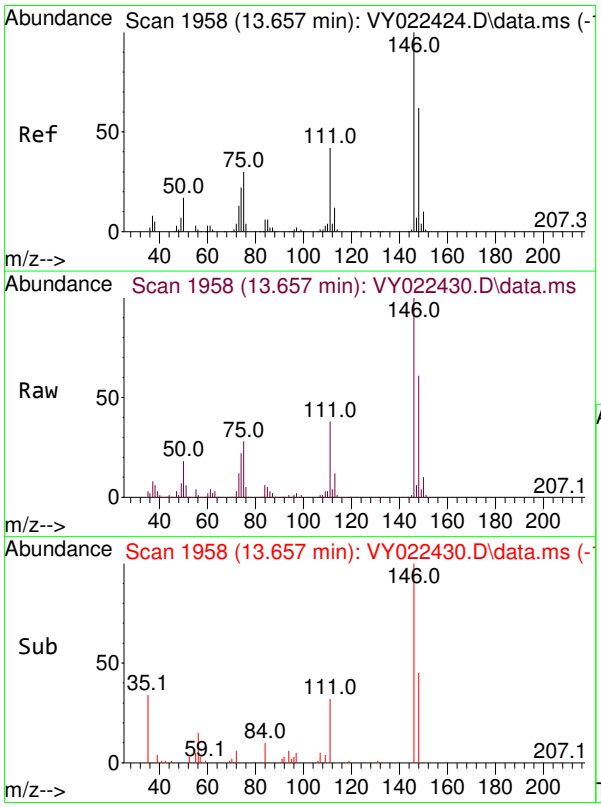


#90
Hexachloroethane
Concen: 20.980 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion:117 Resp: 44745

Ion	Ratio	Lower	Upper
117	100		
201	66.5	35.0	105.0

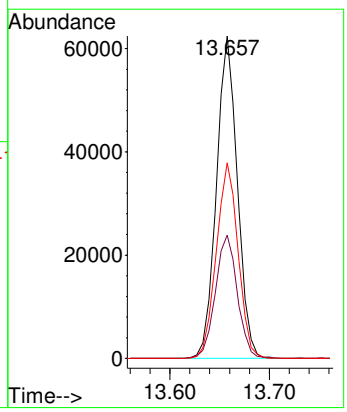




#91
1,2-Dichlorobenzene
Concen: 20.746 ug/l
RT: 13.657 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion:146 Resp: 9198

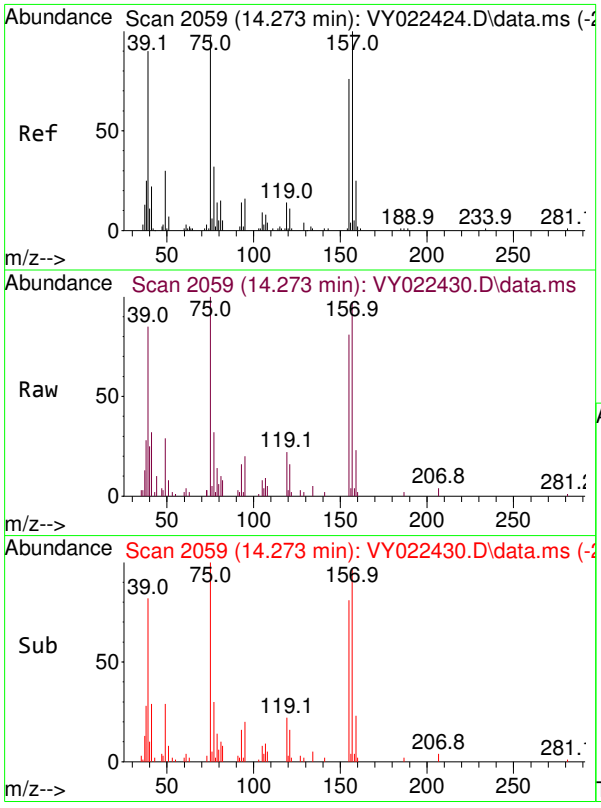
Ion	Ratio	Lower	Upper
146	100		
111	40.1	20.5	61.6
148	63.0	31.9	95.9



Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

Manual Integrations
APPROVED

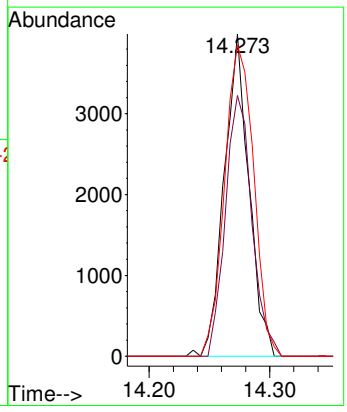
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

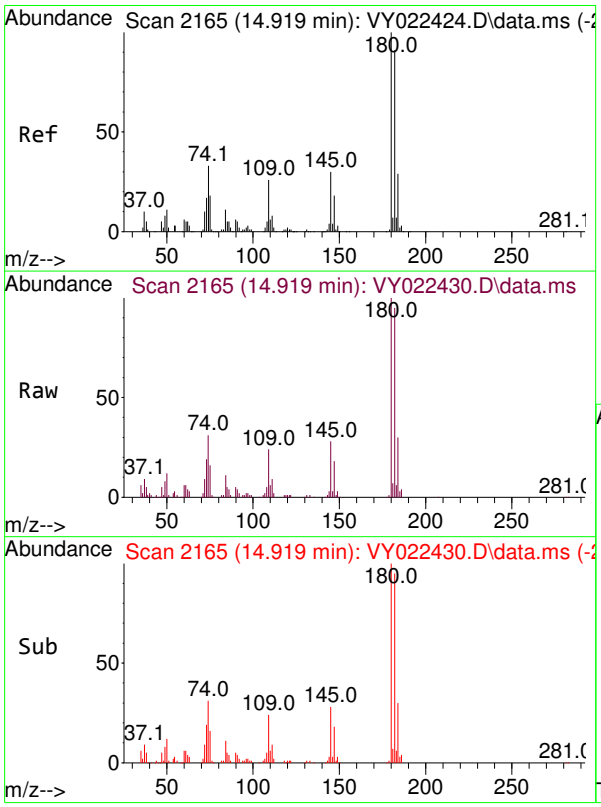


#92
1,2-Dibromo-3-Chloropropane
Concen: 18.964 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.000 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 75 Resp: 5660

Ion	Ratio	Lower	Upper
75	100		
155	87.0	42.3	126.8
157	114.0	54.4	163.3

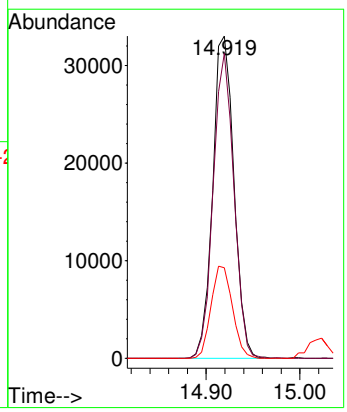




#93
1,2,4-Trichlorobenzene
Concen: 21.069 ug/l
RT: 14.919 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion:180 Resp: 5178

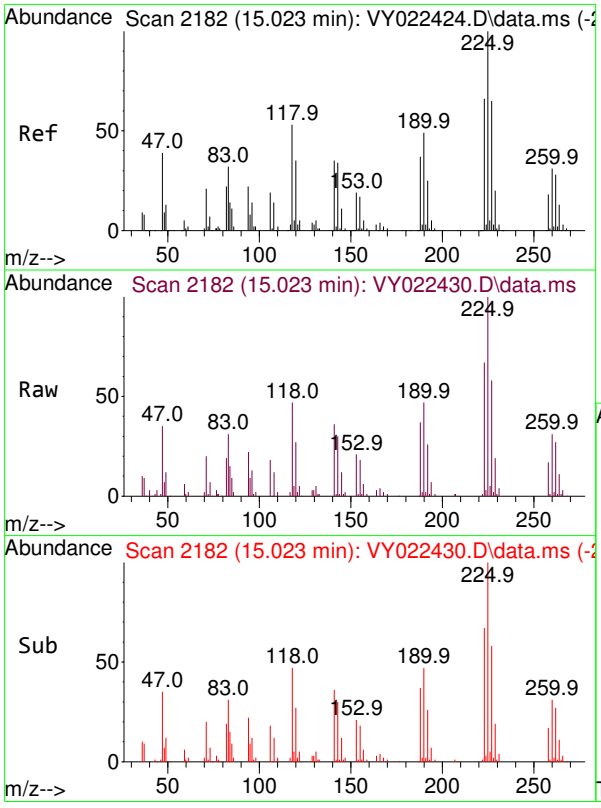
Ion	Ratio	Lower	Upper
180	100		
182	92.3	46.2	138.6
145	28.9	14.2	42.8



Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

Manual Integrations
APPROVED

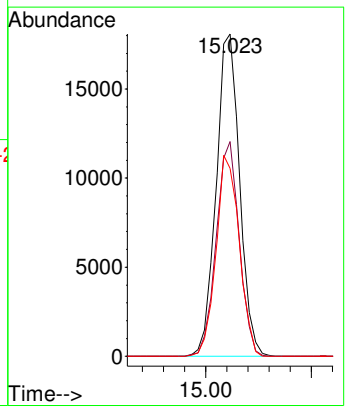
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025

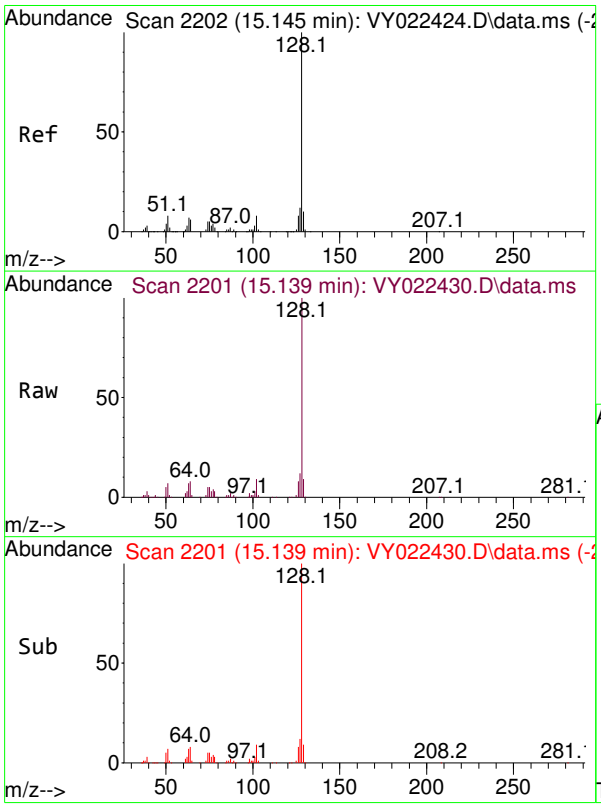


#94
Hexachlorobutadiene
Concen: 21.690 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.000 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion:225 Resp: 27978

Ion	Ratio	Lower	Upper
225	100		
223	65.3	32.6	97.7
227	61.6	33.0	99.0

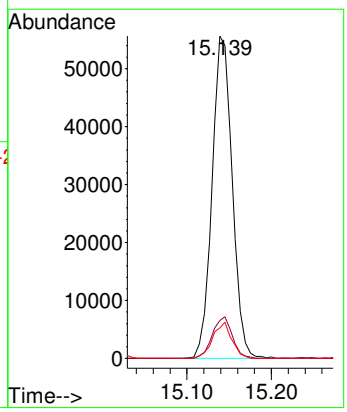




#95
Naphthalene
Concen: 20.393 ug/l
RT: 15.139 min Scan# 2
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion:128 Resp: 9266

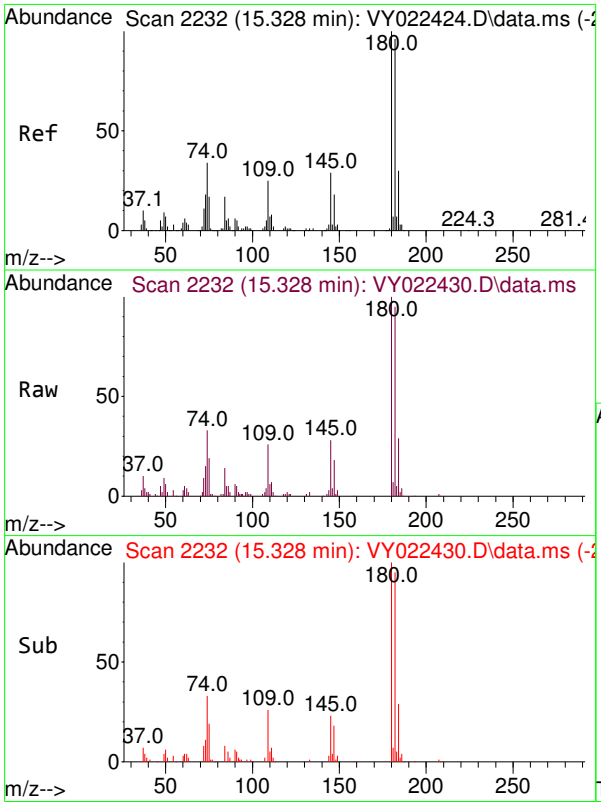
Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.2	15.4
129	10.7	8.5	12.7



Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

Manual Integrations
APPROVED

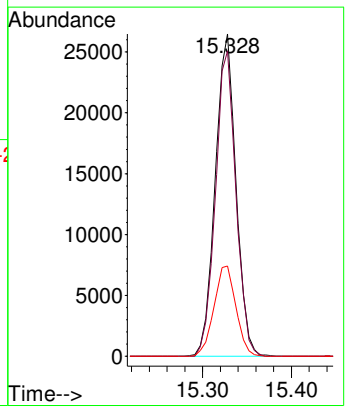
Reviewed By :Amit Patel 05/28/2025
Supervised By :Mahesh Dadoda 05/28/2025



#96
1,2,3-Trichlorobenzene
Concen: 21.382 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. 0.000 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion:180 Resp: 43102

Ion	Ratio	Lower	Upper
180	100		
182	93.7	48.1	144.3
145	29.8	14.9	44.5



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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	VX0523WBSD01	SDG No.:	Q2118
Lab Sample ID:	VX0523WBSD01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046337.D	1		05/23/25 12:10	VX052325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	18.5		0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	17.4		0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	17.6		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	19.9		0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	19.6		0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	19.6		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.5		0.23	0.75	1.00	ug/L
67-64-1	Acetone	100		1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	14.1		0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	20.8		0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	18.6		0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	18.6		0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	20.5		0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	110		0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.1		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	20.2		0.19	0.75	1.00	ug/L
67-66-3	Chloroform	21.0		0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	20.4		0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	18.6		0.16	0.50	1.00	ug/L
71-43-2	Benzene	20.4		0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	20.7		0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	19.8		0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	21.3		0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	20.3		0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	110		0.68	2.50	5.00	ug/L
108-88-3	Toluene	20.7		0.14	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	19.3		0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	20.0		0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	21.7		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	110		0.89	2.50	5.00	ug/L

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	VX0523WBSD01	SDG No.:	Q2118
Lab Sample ID:	VX0523WBSD01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046337.D	1		05/23/25 12:10	VX052325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	20.3		0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	20.2		0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	20.0		0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	20.7		0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	41.1		0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	21.0		0.12	0.50	1.00	ug/L
100-42-5	Styrene	21.5		0.15	0.50	1.00	ug/L
75-25-2	Bromoform	18.5		0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	21.5		0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	21.2		0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	20.6		0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	20.6		0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	21.9		0.16	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	50.2		81 - 118		100%	SPK: 50
1868-53-7	Dibromofluoromethane	51.1		80 - 119		102%	SPK: 50
2037-26-5	Toluene-d8	50.3		89 - 112		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.8		85 - 114		104%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	88800	5.55				
540-36-3	1,4-Difluorobenzene	156000	6.757				
3114-55-4	Chlorobenzene-d5	139000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	64500	12.018				

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046337.D
Acq On : 23 May 2025 12:10
Operator : JC/MD
Sample : VX0523WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 23 22:59:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBSD01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	88781	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	156018	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	138561	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	64515	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	83078	50.193	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 100.380%			
35) Dibromofluoromethane	5.385	113	57411	51.100	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.200%			
50) Toluene-d8	8.647	98	195435	50.259	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.520%			
62) 4-Bromofluorobenzene	11.079	95	77206	51.761	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 103.520%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.167	85	25474	18.747	ug/l	97
3) Chloromethane	1.301	50	24413	18.526	ug/l	99
4) Vinyl Chloride	1.374	62	21369	17.424	ug/l	96
5) Bromomethane	1.599	94	9985	17.554	ug/l	97
6) Chloroethane	1.673	64	13061	19.949	ug/l	97
7) Trichlorofluoromethane	1.880	101	35491	19.581	ug/l	99
8) Diethyl Ether	2.136	74	11569	18.750	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.325	101	21961	19.579	ug/l	99
10) Methyl Iodide	2.447	142	24410	18.391	ug/l	99
11) Tert butyl alcohol	2.971	59	23549	101.358	ug/l	97
12) 1,1-Dichloroethene	2.313	96	19463	18.488	ug/l	97
13) Acrolein	2.233	56	25046	94.659	ug/l	98
14) Allyl chloride	2.660	41	39575	19.670	ug/l	97
15) Acrylonitrile	3.063	53	70219	105.696	ug/l	99
16) Acetone	2.380	43	66639	100.414	ug/l	99
17) Carbon Disulfide	2.508	76	35232	14.117	ug/l	100
18) Methyl Acetate	2.703	43	37985	24.666	ug/l	98
19) Methyl tert-butyl Ether	3.111	73	76705	20.783	ug/l	98
20) Methylene Chloride	2.782	84	23632	18.582	ug/l	95
21) trans-1,2-Dichloroethene	3.087	96	19656	18.567	ug/l	97
22) Diisopropyl ether	3.757	45	82218	21.156	ug/l	94
23) Vinyl Acetate	3.721	43	343611	100.524	ug/l	100
24) 1,1-Dichloroethane	3.605	63	44347	20.487	ug/l	99
25) 2-Butanone	4.556	43	101697	105.553	ug/l	99
26) 2,2-Dichloropropane	4.471	77	33007	19.482	ug/l	99
27) cis-1,2-Dichloroethene	4.489	96	25739	20.196	ug/l	99
28) Bromochloromethane	4.891	49	22384	21.483	ug/l	97
29) Tetrahydrofuran	5.007	42	63143	104.588	ug/l	99
30) Chloroform	5.087	83	47399	21.008	ug/l	96
31) Cyclohexane	5.465	56	37631	19.078	ug/l	98
32) 1,1,1-Trichloroethane	5.379	97	39871	20.386	ug/l	99
36) 1,1-Dichloropropene	5.690	75	29850	19.774	ug/l	100
37) Ethyl Acetate	4.715	43	37140	19.914	ug/l	99
38) Carbon Tetrachloride	5.672	117	32350	19.073	ug/l	98
39) Methylcyclohexane	7.379	83	36232	18.644	ug/l	95
40) Benzene	6.031	78	90373	20.439	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046337.D
Acq On : 23 May 2025 12:10
Operator : JC/MD
Sample : VX0523WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 23 22:59:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBSD01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.922	41	21497	22.034	ug/l		98
42) 1,2-Dichloroethane	6.080	62	39414	20.654	ug/l		99
43) Isopropyl Acetate	6.342	43	59852	21.036	ug/l		100
44) Trichloroethene	7.123	130	21039	19.770	ug/l		99
45) 1,2-Dichloropropane	7.428	63	23384	21.269	ug/l		98
46) Dibromomethane	7.580	93	17380	20.043	ug/l		99
47) Bromodichloromethane	7.818	83	34711	20.324	ug/l		94
48) Methyl methacrylate	7.690	41	31880	21.940	ug/l		99
49) 1,4-Dioxane	7.659	88	12226	443.135	ug/l		99
51) 4-Methyl-2-Pentanone	8.574	43	203409	107.703	ug/l		100
52) Toluene	8.714	92	56025	20.664	ug/l		99
53) t-1,3-Dichloropropene	8.976	75	29223	19.250	ug/l		100
54) cis-1,3-Dichloropropene	8.366	75	33496	19.964	ug/l		98
55) 1,1,2-Trichloroethane	9.147	97	23165	21.669	ug/l		96
56) Ethyl methacrylate	9.116	69	37300	21.892	ug/l		99
57) 1,3-Dichloropropane	9.305	76	40634	21.164	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.238	63	91224	105.020	ug/l		100
59) 2-Hexanone	9.427	43	154608	110.651	ug/l		99
60) Dibromochloromethane	9.519	129	23795	20.267	ug/l		97
61) 1,2-Dibromoethane	9.610	107	23433	21.090	ug/l		99
64) Tetrachloroethene	9.269	164	19788	20.184	ug/l		95
65) Chlorobenzene	10.080	112	60662	20.002	ug/l		98
66) 1,1,1,2-Tetrachloroethane	10.159	131	20600	19.892	ug/l		98
67) Ethyl Benzene	10.189	91	110710	20.709	ug/l		99
68) m/p-Xylenes	10.299	106	80300	41.069	ug/l		97
69) o-Xylene	10.640	106	40011	20.990	ug/l		94
70) Styrene	10.653	104	67035	21.468	ug/l		98
71) Bromoform	10.799	173	14390	18.508	ug/l	#	97
73) Isopropylbenzene	10.957	105	108018	21.506	ug/l		100
74) N-amyl acetate	10.842	43	53653	21.617	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.207	83	37352	21.221	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	32701m	21.058	ug/l		
77) Bromobenzene	11.195	156	24128	20.692	ug/l		98
78) n-propylbenzene	11.299	91	122931	21.050	ug/l		100
79) 2-Chlorotoluene	11.360	91	78220	20.765	ug/l		100
80) 1,3,5-Trimethylbenzene	11.451	105	91615	21.833	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	8375	17.558	ug/l		89
82) 4-Chlorotoluene	11.451	91	88845	21.268	ug/l		99
83) tert-Butylbenzene	11.713	119	90311	21.367	ug/l		100
84) 1,2,4-Trimethylbenzene	11.750	105	92322	21.726	ug/l		99
85) sec-Butylbenzene	11.890	105	112789	21.734	ug/l		98
86) p-Isopropyltoluene	12.006	119	92615	21.620	ug/l		100
87) 1,3-Dichlorobenzene	11.969	146	43835	20.598	ug/l		98
88) 1,4-Dichlorobenzene	12.037	146	44676	20.556	ug/l		98
89) n-Butylbenzene	12.329	91	78814	20.975	ug/l		100
90) Hexachloroethane	12.536	117	14474	19.179	ug/l		98
91) 1,2-Dichlorobenzene	12.335	146	46803	21.916	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	12.939	75	8003	20.524	ug/l		96
93) 1,2,4-Trichlorobenzene	13.585	180	26034	21.225	ug/l		97
94) Hexachlorobutadiene	13.725	225	10958	20.455	ug/l		97
95) Naphthalene	13.774	128	95806	21.296	ug/l		99
96) 1,2,3-Trichlorobenzene	13.957	180	26794	21.171	ug/l		98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046337.D
Acq On : 23 May 2025 12:10
Operator : JC/MD
Sample : VX0523WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 23 22:59:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBSD01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046337.D
Acq On : 23 May 2025 12:10
Operator : JC/MD
Sample : VX0523WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 23 22:59:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBSD01

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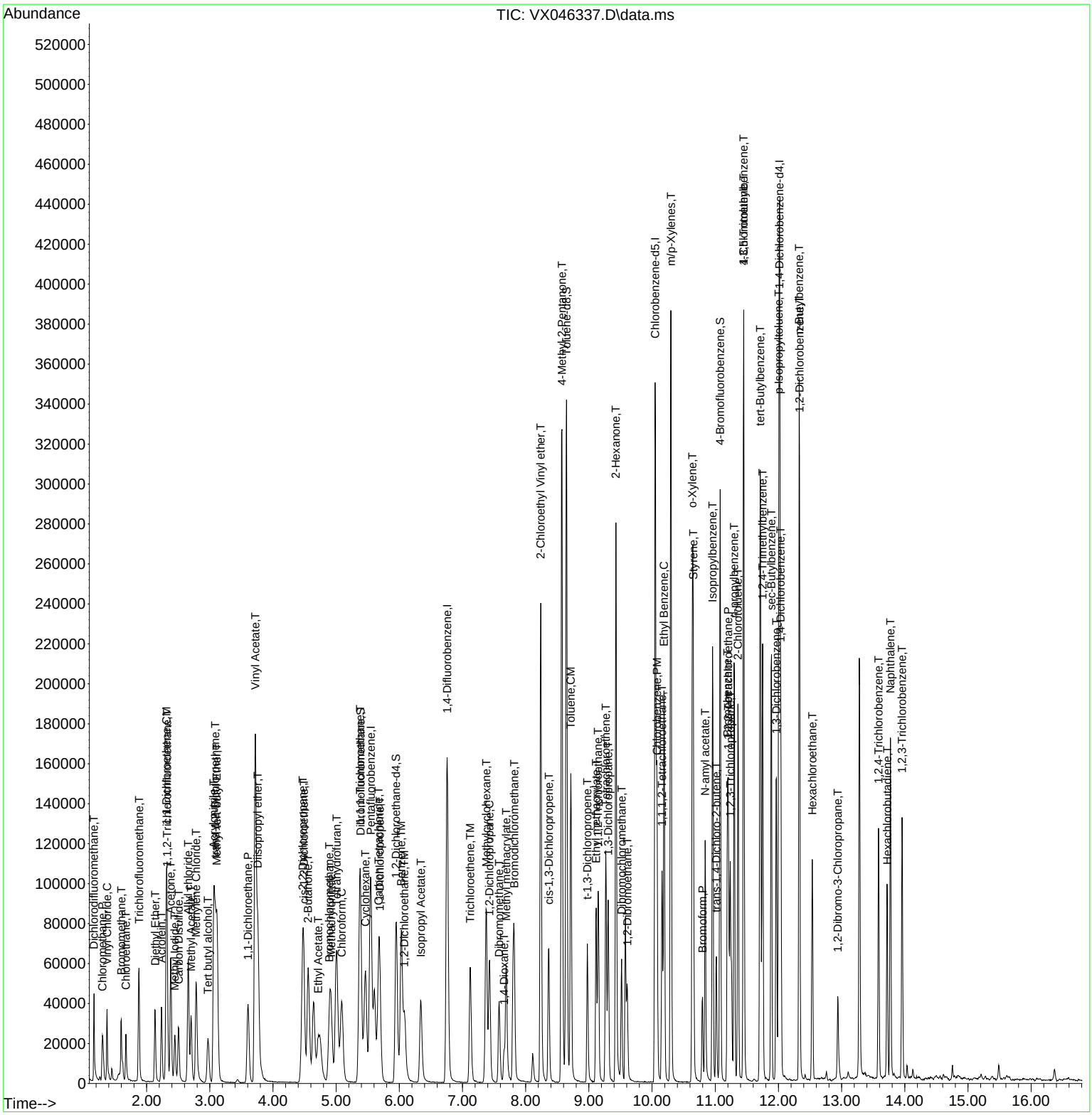
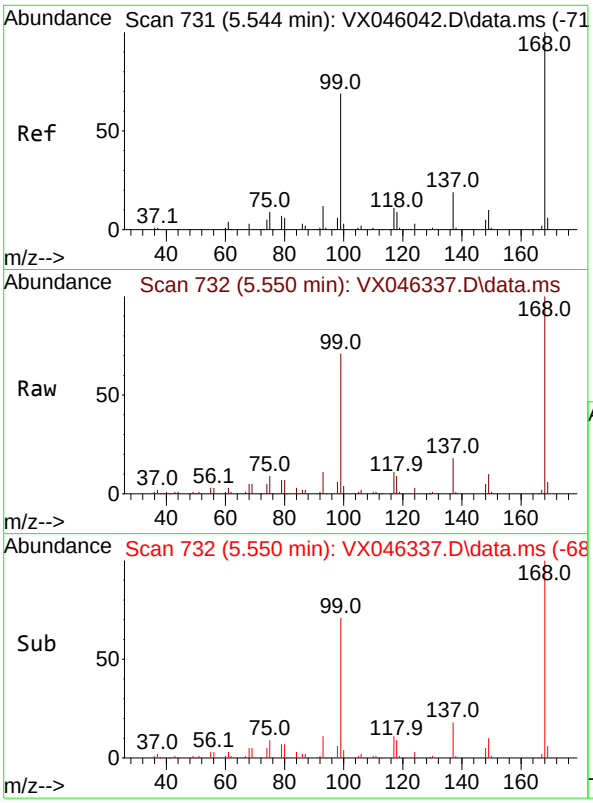
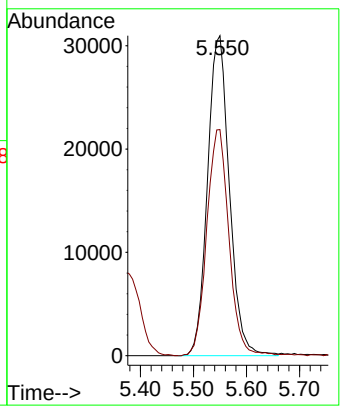




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion:168 Resp: 8878

Ion	Ratio	Lower	Upper
168	100		
99	70.7	54.9	82.3



Instrument :
MSVOA_X
ClientSampleId :
VX0523WBSD01

Manual Integrations
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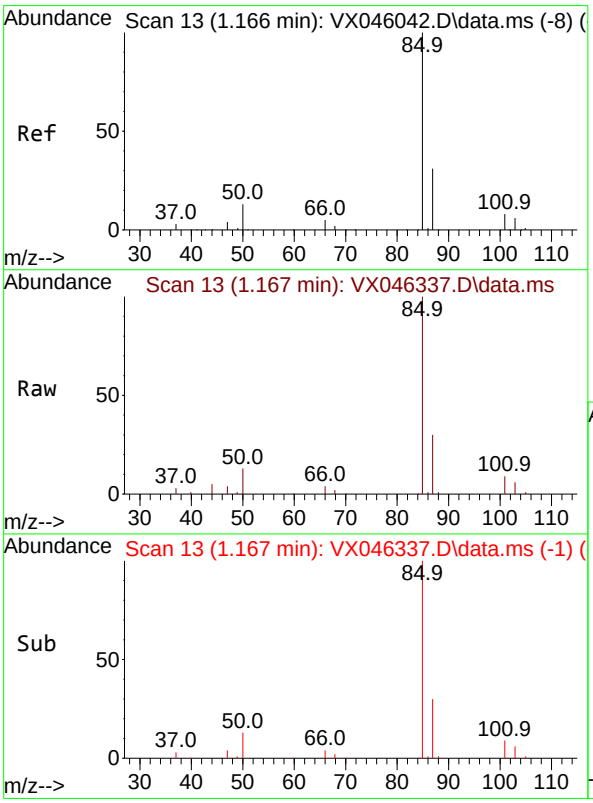
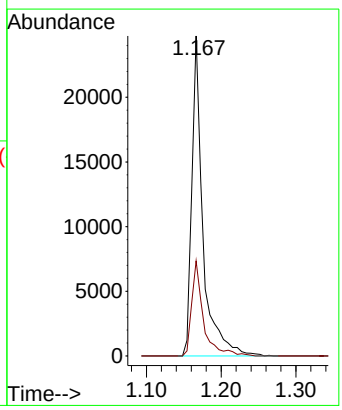
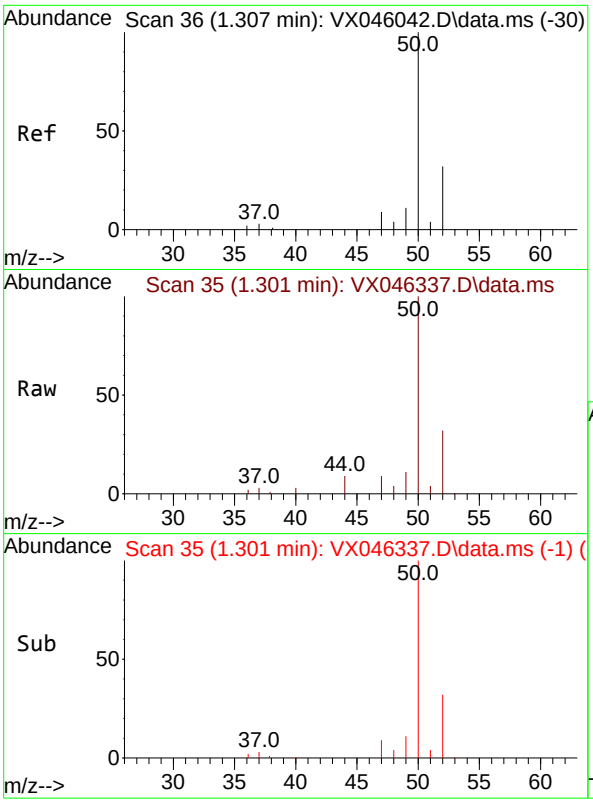


#2
Dichlorodifluoromethane
Concen: 18.747 ug/l
RT: 1.167 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 85 Resp: 25474

Ion	Ratio	Lower	Upper
85	100		
87	29.7	15.7	47.1

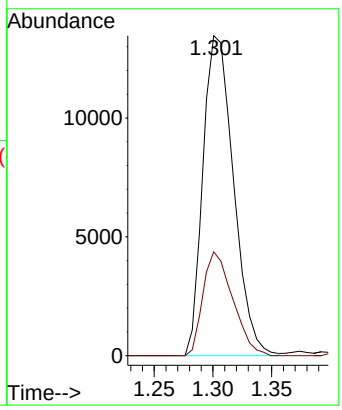




#3
Chloromethane
Concen: 18.526 ug/l
RT: 1.301 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 50 Resp: 2441

Ion	Ratio	Lower	Upper
50	100		
52	32.5	25.4	38.2



Instrument :
MSVOA_X
ClientSampleId :
VX0523WBSD01

Manual Integrations
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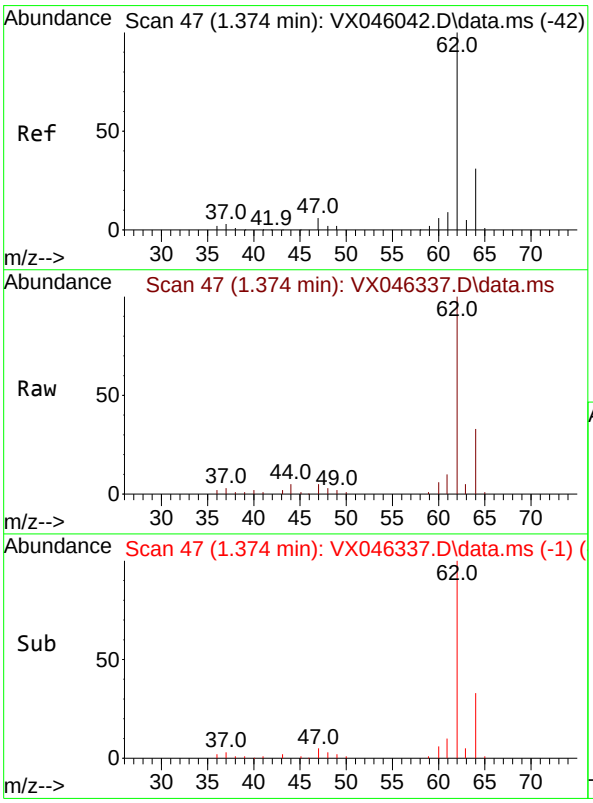
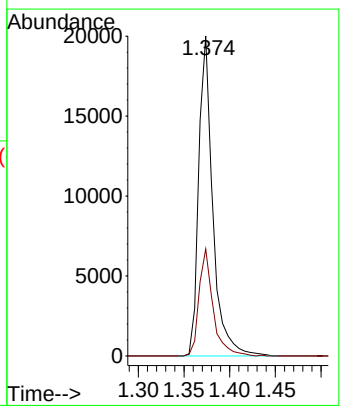
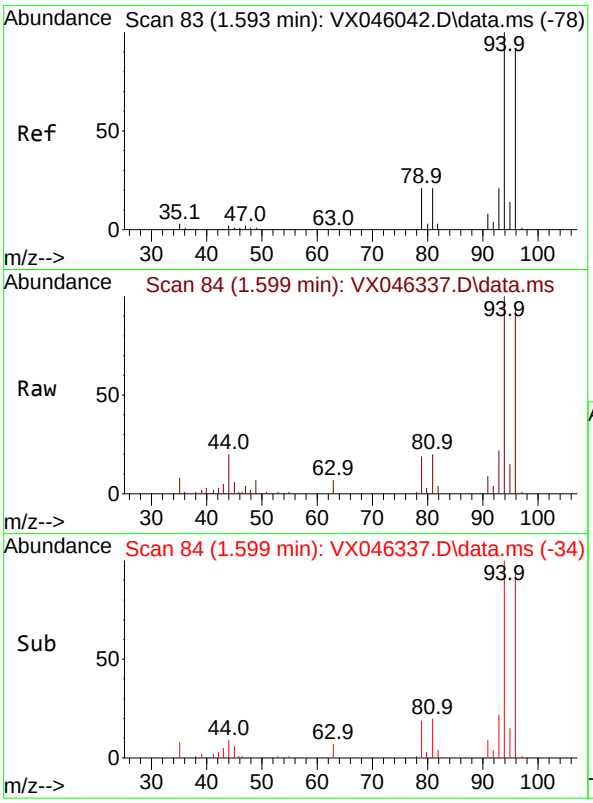


#4
Vinyl Chloride
Concen: 17.424 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 62 Resp: 21369

Ion	Ratio	Lower	Upper
62	100		
64	33.5	25.2	37.8

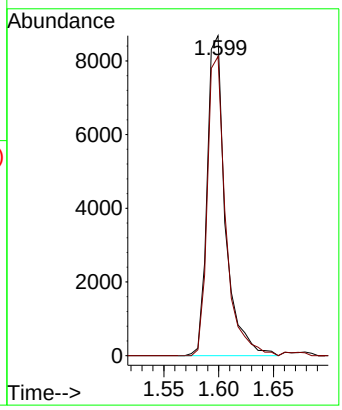




#5
Bromomethane
Concen: 17.554 ug/l
RT: 1.599 min Scan# 8
Delta R.T. 0.006 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 94 Resp: 998

Ion	Ratio	Lower	Upper
94	100		
96	93.5	72.8	109.2



Instrument :
MSVOA_X
ClientSampleId :
VX0523WBSD01

Manual Integrations
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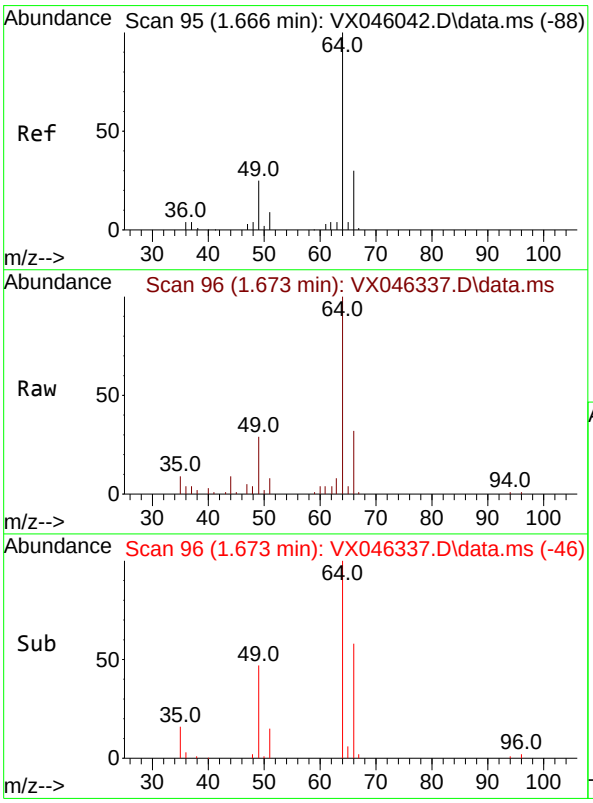
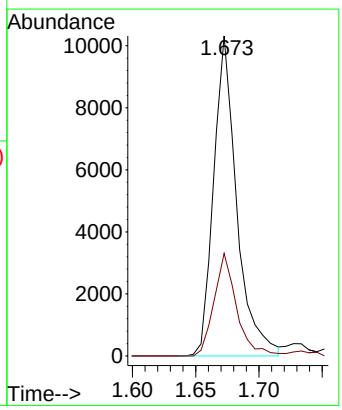
Supervised By :Mahesh Dadoda 05/26/2025

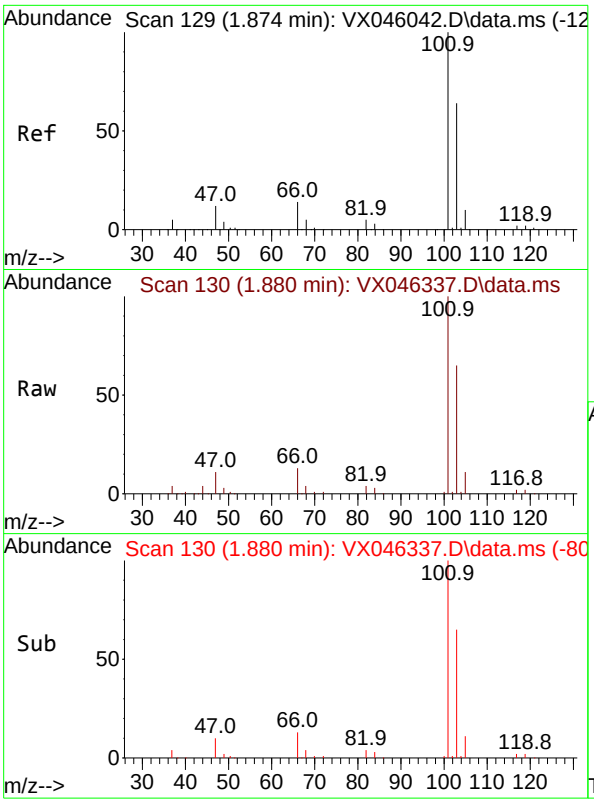


#6
Chloroethane
Concen: 19.949 ug/l
RT: 1.673 min Scan# 96
Delta R.T. 0.006 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 64 Resp: 13061

Ion	Ratio	Lower	Upper
64	100		
66	32.0	24.3	36.5

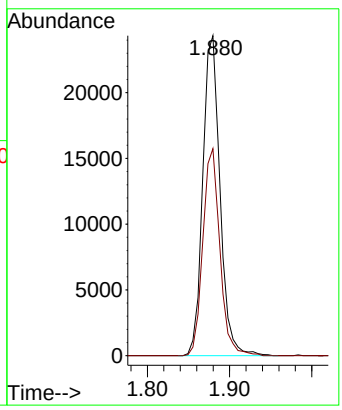




#7
Trichlorofluoromethane
Concen: 19.581 ug/l
RT: 1.880 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion:101 Resp: 3549

Ion	Ratio	Lower	Upper
101	100		
103	64.7	51.0	76.4



Instrument :
MSVOA_X
ClientSampleId :
VX0523WBSD01

Manual Integrations
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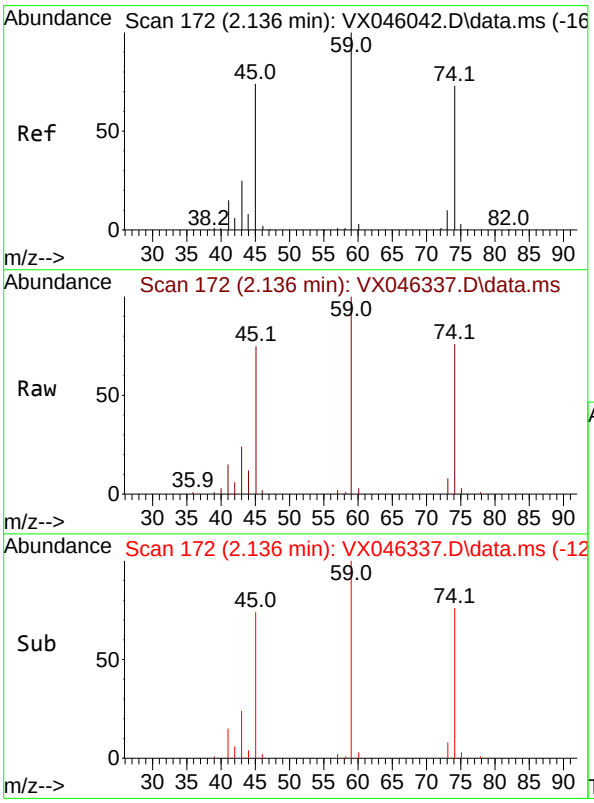
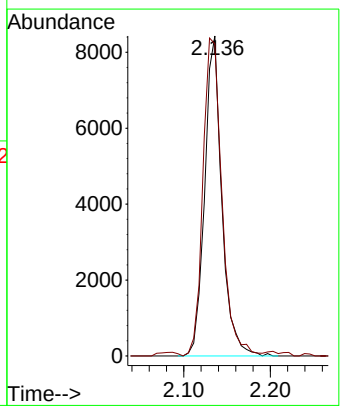
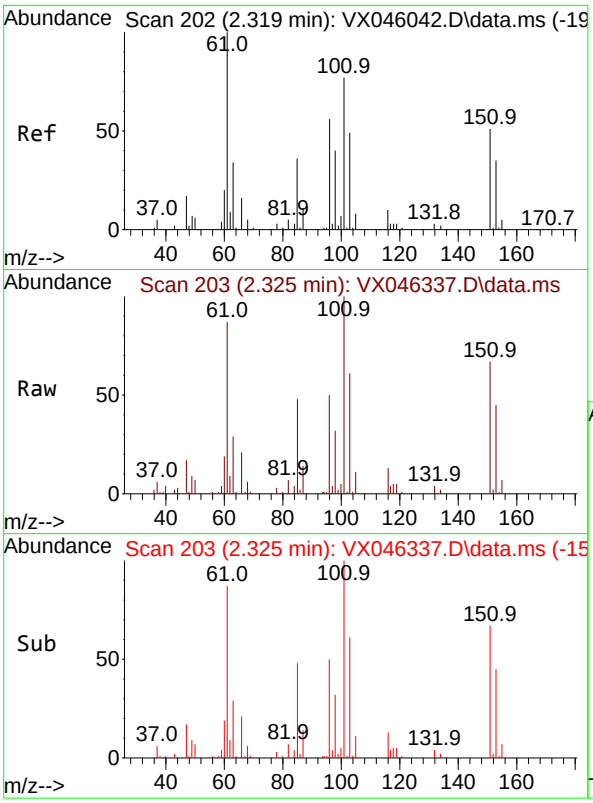


#8
Diethyl Ether
Concen: 18.750 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 74 Resp: 11569

Ion	Ratio	Lower	Upper
74	100		
45	110.3	54.9	164.8





#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.579 ug/l
RT: 2.325 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion:101 Resp: 2196

Ion	Ratio	Lower	Upper
101	100		
85	48.4	38.6	58.0
151	70.4	55.2	82.8

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBSD01

Manual Integrations
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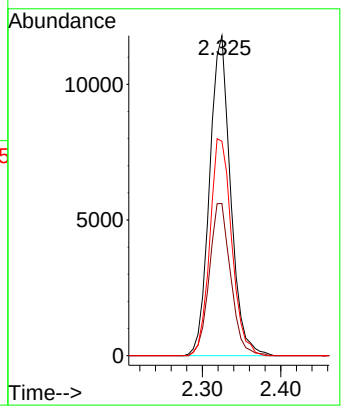
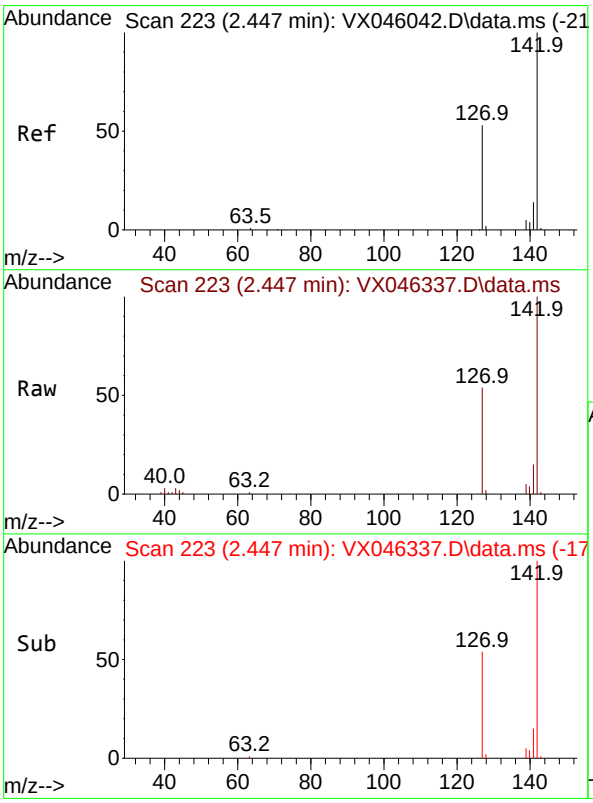
Supervised By :Mahesh Dadoda 05/26/2025

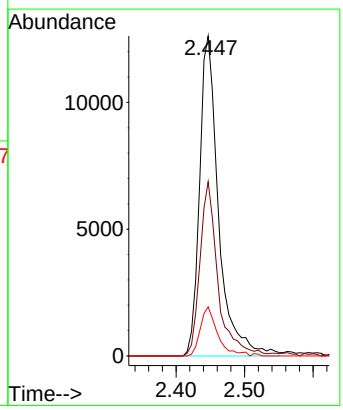


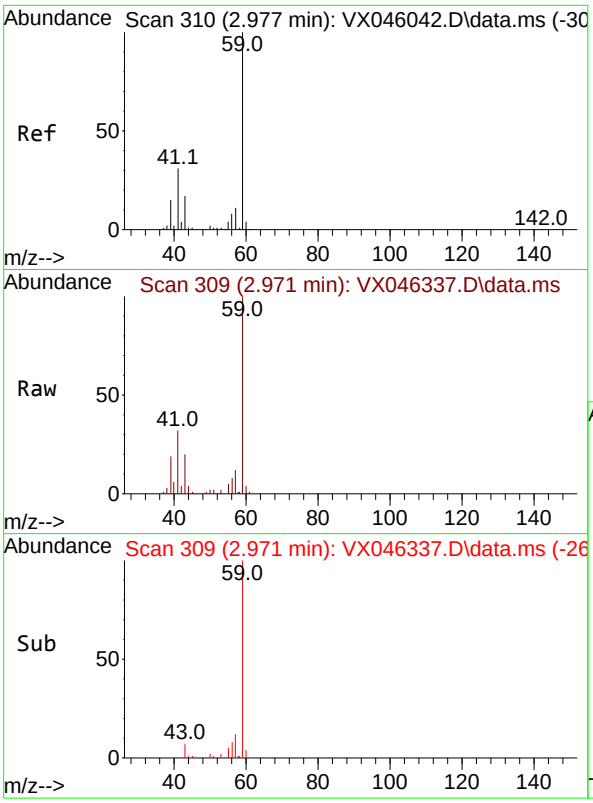


#10
Methyl Iodide
Concen: 18.391 ug/l
RT: 2.447 min Scan# 223
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion:142 Resp: 24410

Ion	Ratio	Lower	Upper
142	100		
127	51.4	41.7	62.5
141	14.1	11.5	17.3

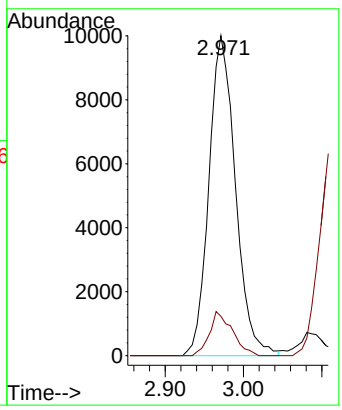




#11
Tert butyl alcohol
Concen: 101.358 ug/l
RT: 2.971 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 59 Resp: 2354

Ion	Ratio	Lower	Upper
59	100		
57	11.9	8.6	12.8



Instrument :
MSVOA_X
ClientSampleId :
VX0523WBSD01

Manual Integrations
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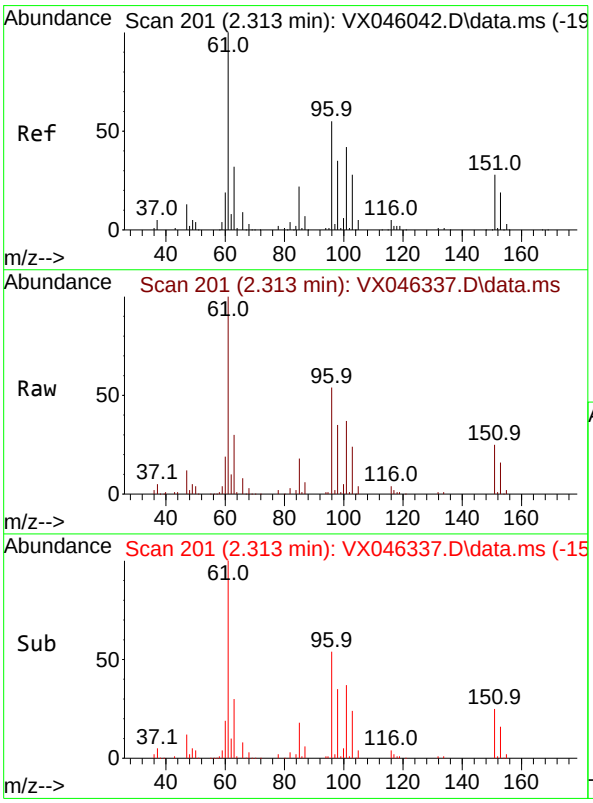
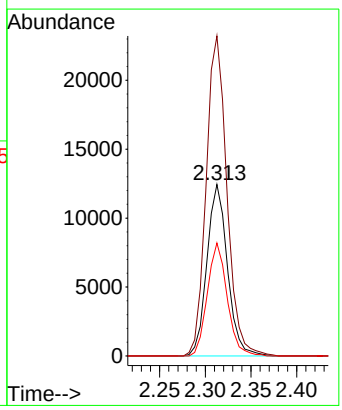
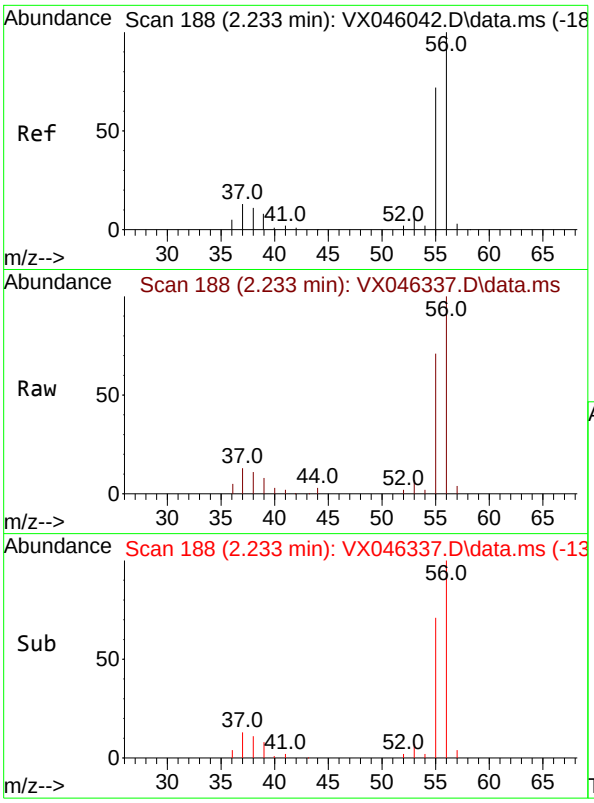


#12
1,1-Dichloroethene
Concen: 18.488 ug/l
RT: 2.313 min Scan# 201
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 96 Resp: 19463

Ion	Ratio	Lower	Upper
96	100		
61	186.6	146.2	219.2
98	65.9	51.0	76.6

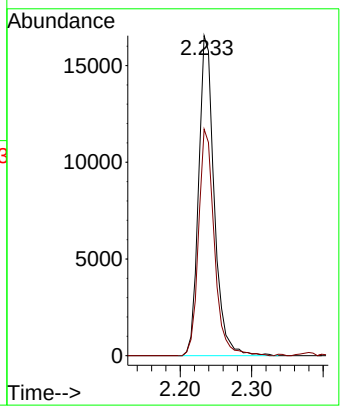




#13
Acrolein
Concen: 94.659 ug/l
RT: 2.233 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 56 Resp: 2504

Ion	Ratio	Lower	Upper
56	100		
55	71.7	56.2	84.4



Instrument :
MSVOA_X
ClientSampleId :
VX0523WBSD01

Manual Integrations
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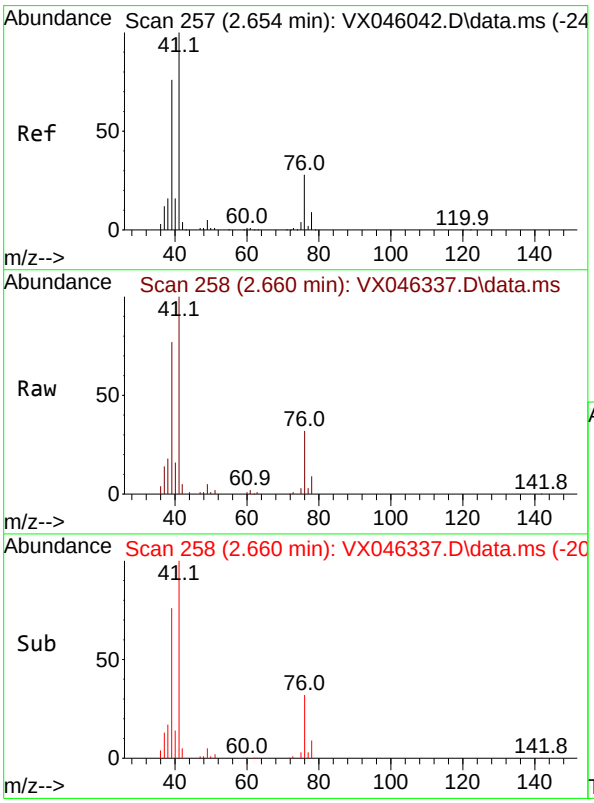
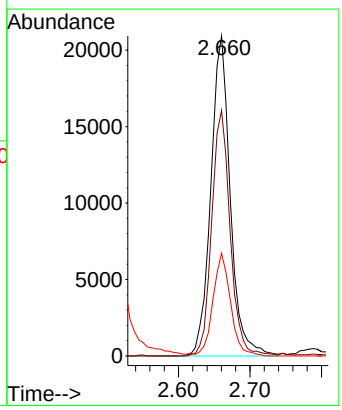
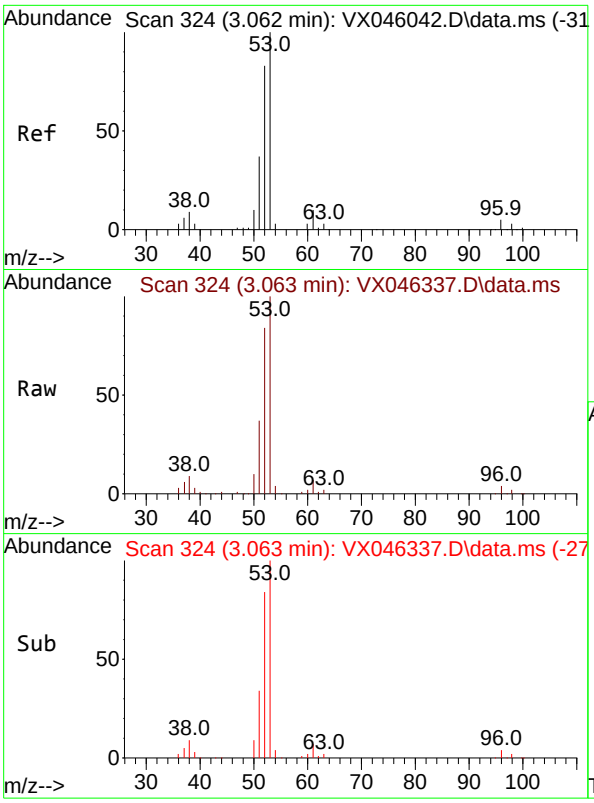


#14
Allyl chloride
Concen: 19.670 ug/l
RT: 2.660 min Scan# 258
Delta R.T. 0.006 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 41 Resp: 39575

Ion	Ratio	Lower	Upper
41	100		
39	72.8	60.6	90.8
76	29.2	24.9	37.3

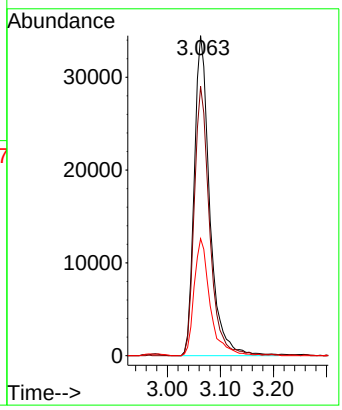




#15
Acrylonitrile
Concen: 105.696 ug/l
RT: 3.063 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 53 Resp: 7021

Ion	Ratio	Lower	Upper
53	100		
52	83.1	65.3	97.9
51	37.7	29.8	44.8



Instrument :
MSVOA_X
ClientSampleId :
VX0523WBSD01

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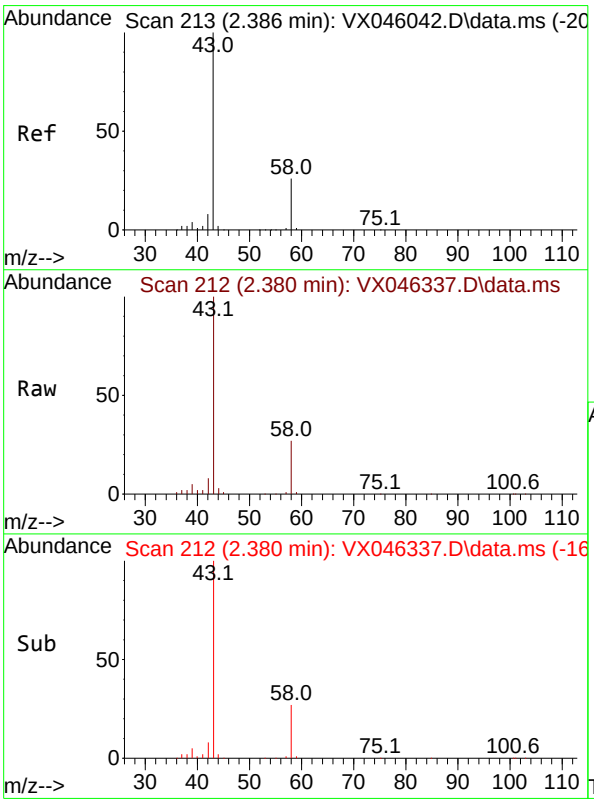
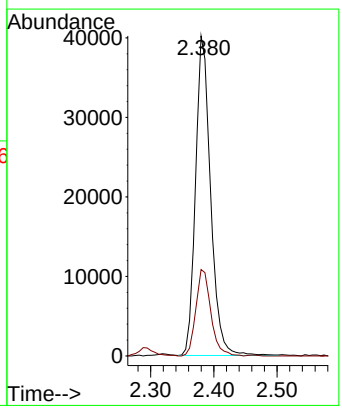
Supervised By :Mahesh Dadoda 05/26/2025

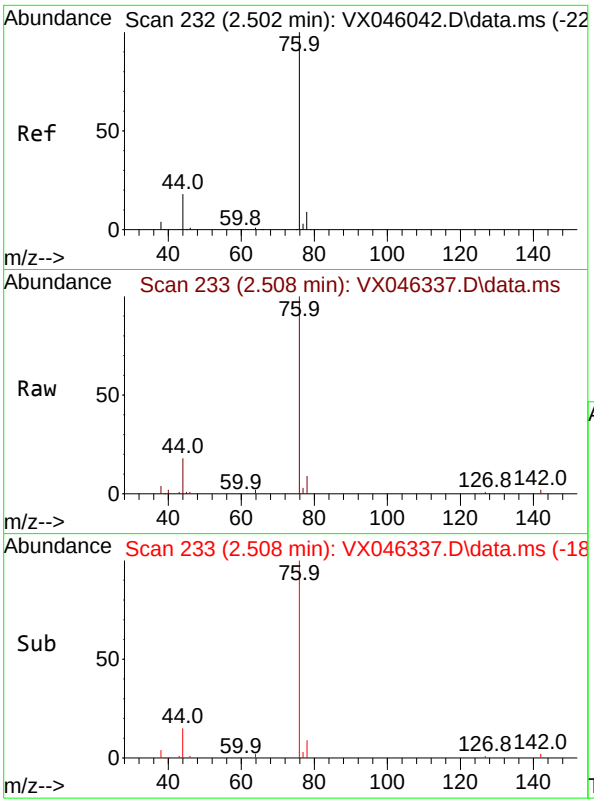


#16
Acetone
Concen: 100.414 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 43 Resp: 66639

Ion	Ratio	Lower	Upper
43	100		
58	27.0	21.2	31.8

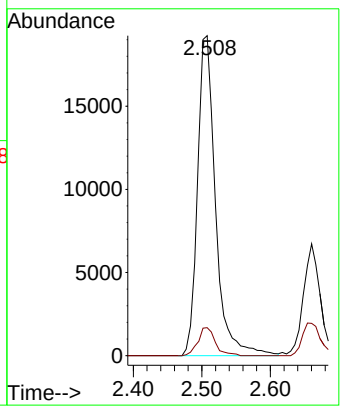




#17
Carbon Disulfide
Concen: 14.117 ug/l
RT: 2.508 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 76 Resp: 3523

Ion	Ratio	Lower	Upper
76	100		
78	8.7	7.0	10.4



Instrument :
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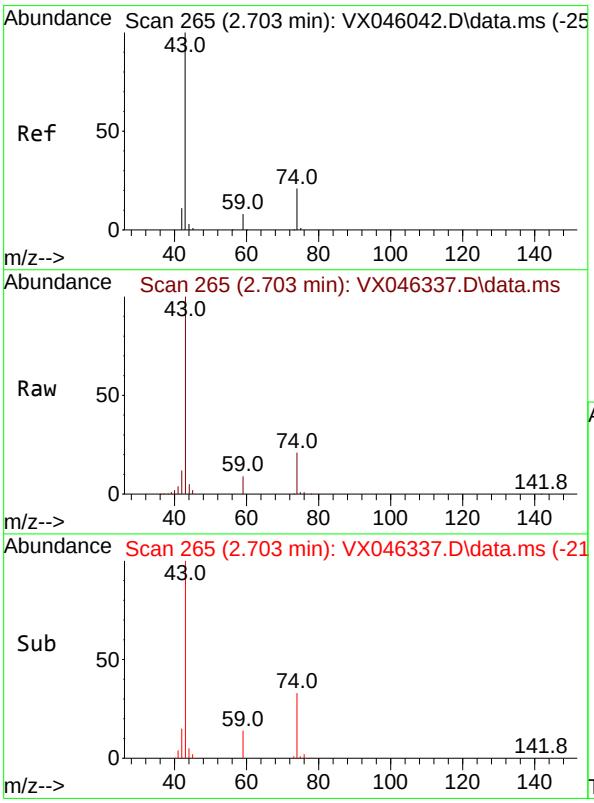
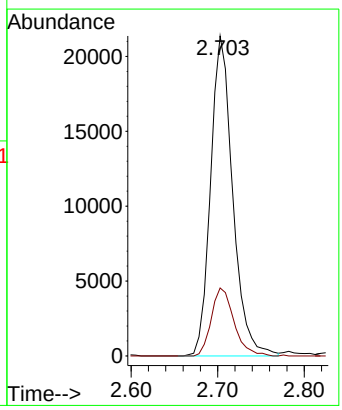
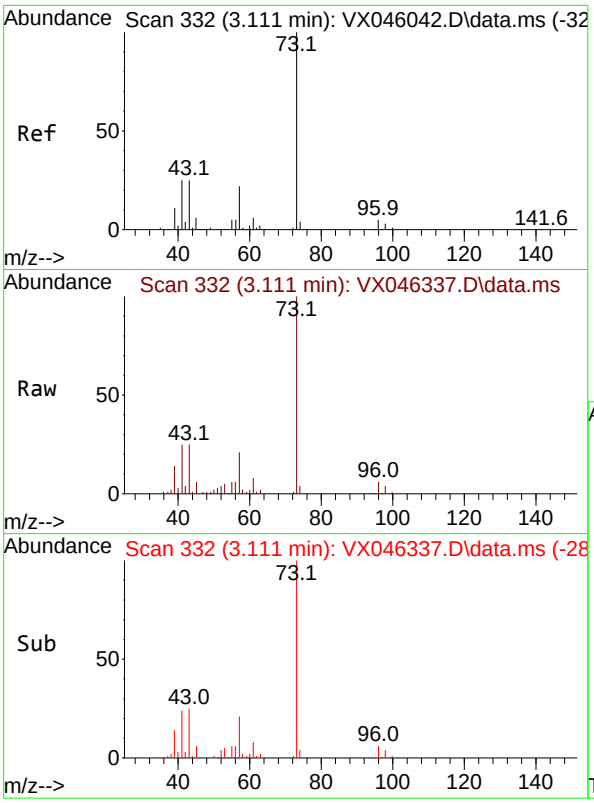


#18
Methyl Acetate
Concen: 24.666 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 43 Resp: 37985

Ion	Ratio	Lower	Upper
43	100		
74	21.7	16.7	25.1





#19
Methyl tert-butyl Ether
Concen: 20.783 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 73 Resp: 7670

Ion	Ratio	Lower	Upper
73	100		
57	21.3	17.7	26.5

Instrument :
MSVOA_X
ClientSampleId :
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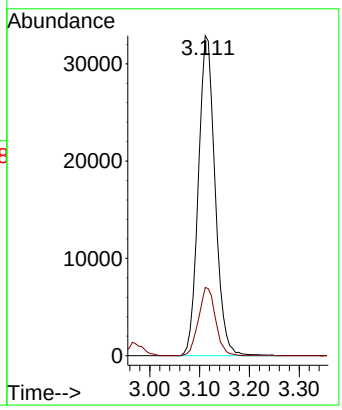
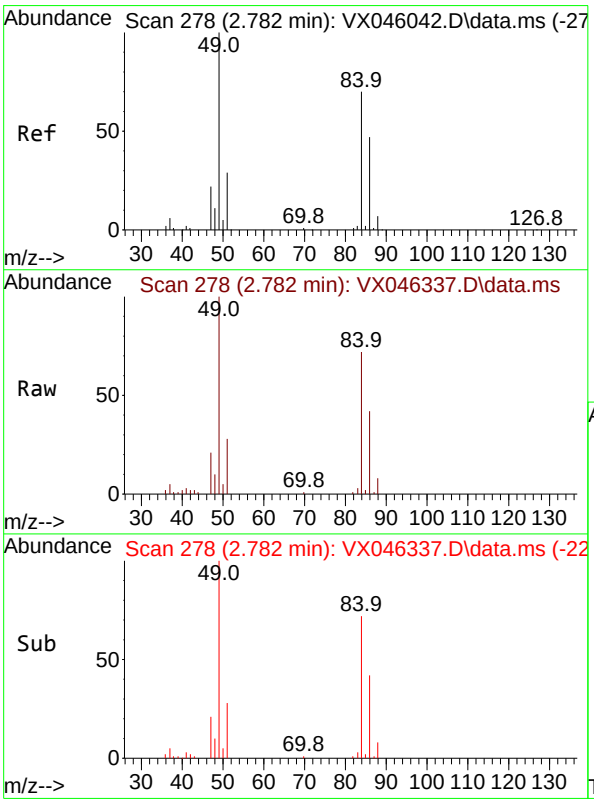
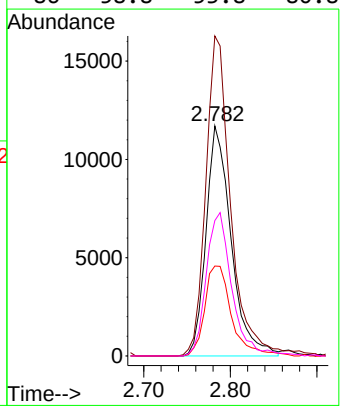


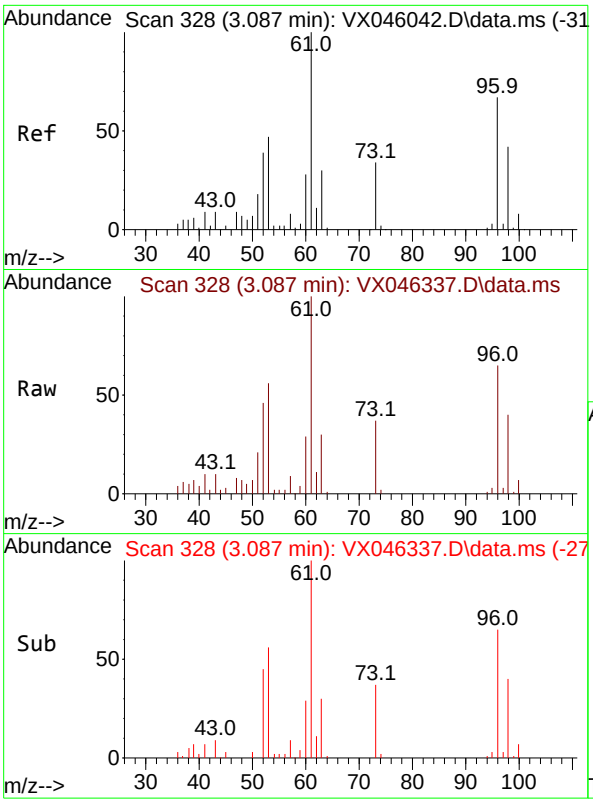


#20
Methylene Chloride
Concen: 18.582 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 84 Resp: 23632

Ion	Ratio	Lower	Upper
84	100		
49	139.1	113.9	170.9
51	39.1	33.5	50.3
86	58.8	53.8	80.8

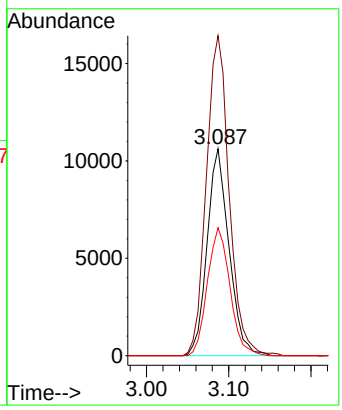




#21
trans-1,2-Dichloroethene
Concen: 18.567 ug/l
RT: 3.087 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 96 Resp: 1965

Ion	Ratio	Lower	Upper
96	100		
61	154.7	119.5	179.3
98	61.9	50.0	75.0



Instrument :
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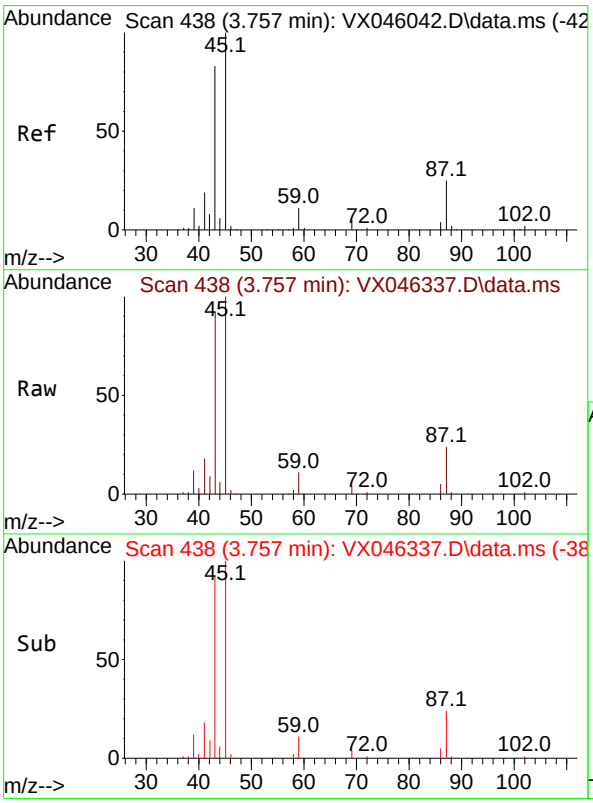
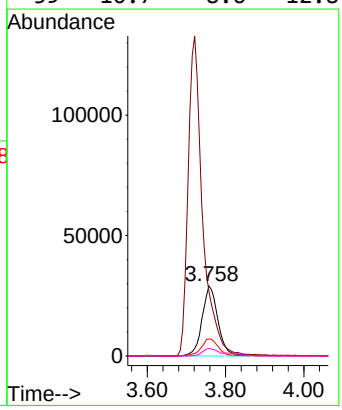
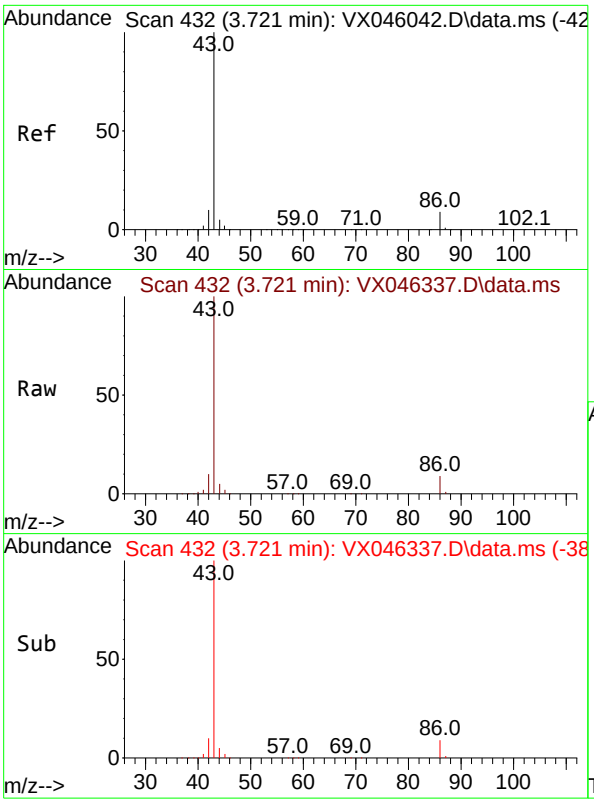


#22
Diisopropyl ether
Concen: 21.156 ug/l
RT: 3.757 min Scan# 438
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 45 Resp: 82218

Ion	Ratio	Lower	Upper
45	100		
43	91.3	66.6	100.0
87	24.2	19.8	29.6
59	10.7	8.6	12.8





#23
Vinyl Acetate
Concen: 100.524 ug/l
RT: 3.721 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 43 Resp: 34361

Ion	Ratio	Lower	Upper
43	100		
86	9.3	7.5	11.3

Instrument :
MSVOA_X
ClientSampleId :
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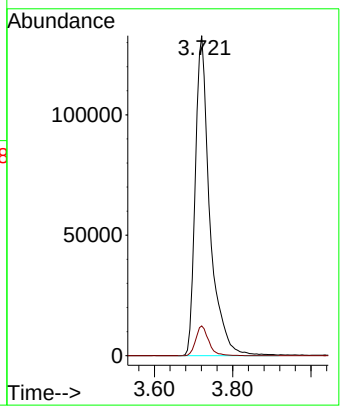
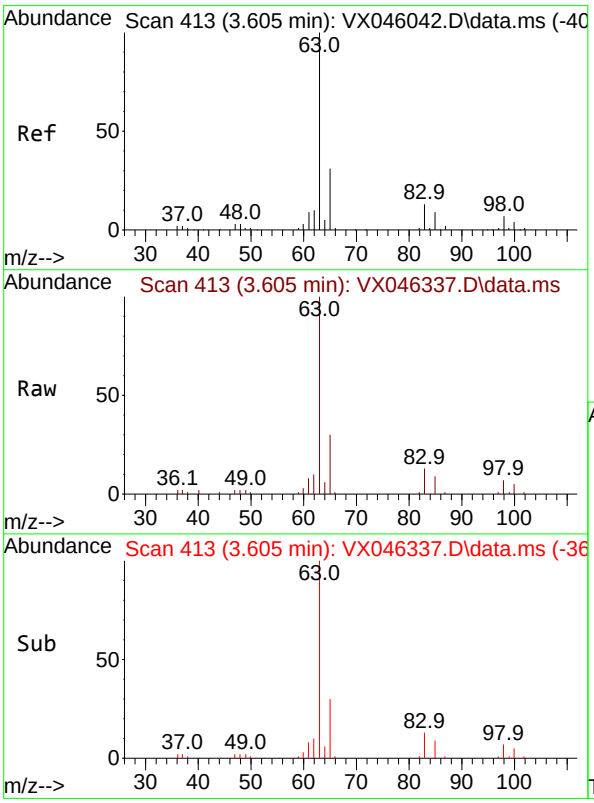
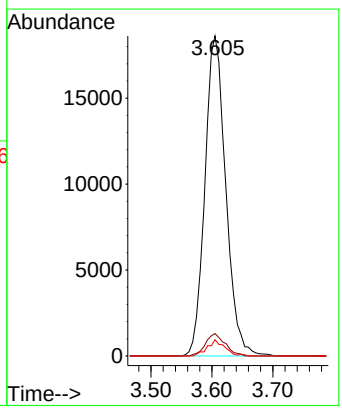


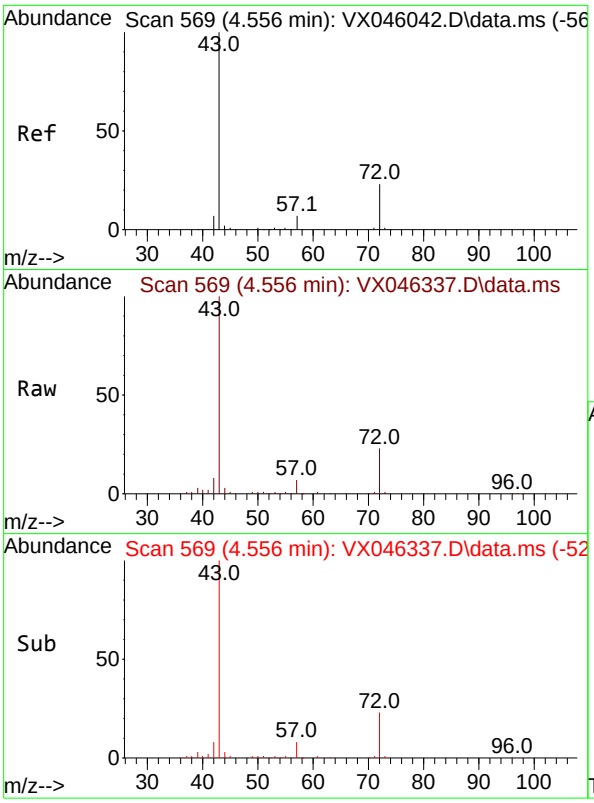


#24
1,1-Dichloroethane
Concen: 20.487 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 63 Resp: 44347

Ion	Ratio	Lower	Upper
63	100		
98	7.0	3.6	10.8
100	5.1	2.1	6.3





#25
2-Butanone
Concen: 105.553 ug/l
RT: 4.556 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 43 Resp: 10169

Ion	Ratio	Lower	Upper
43	100		
72	22.7	18.4	27.6

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBSD01

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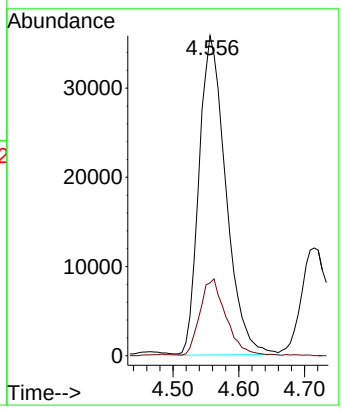
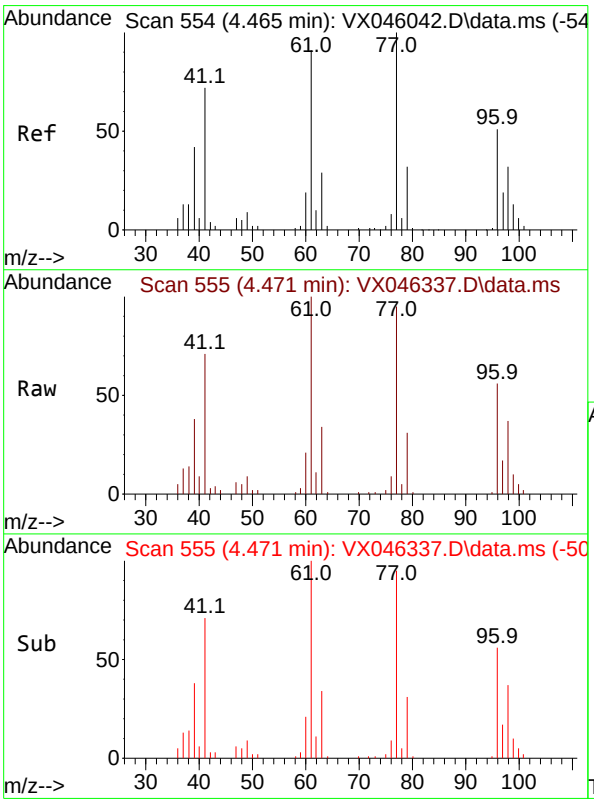
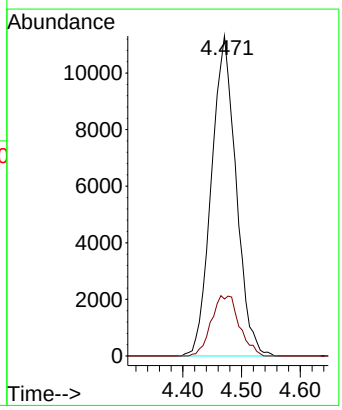


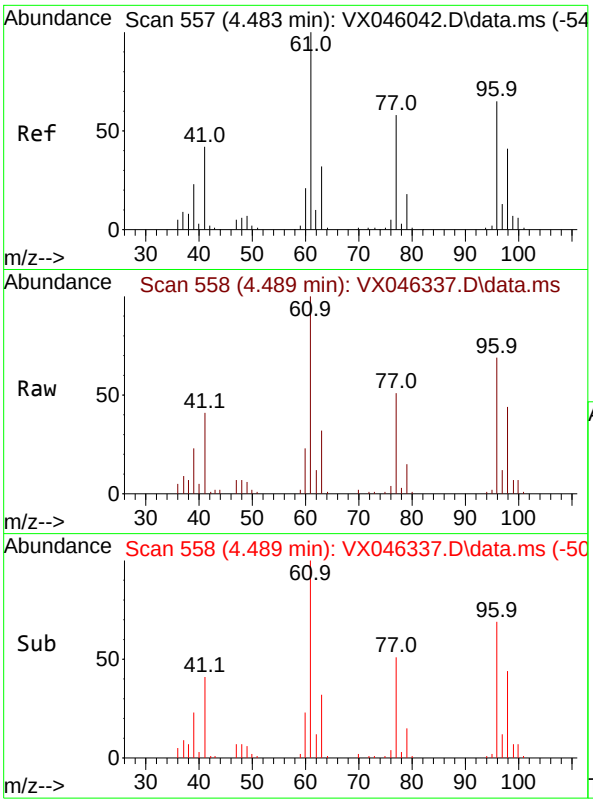


#26
2,2-Dichloropropane
Concen: 19.482 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 77 Resp: 33007

Ion	Ratio	Lower	Upper
77	100		
97	21.4	10.5	31.5

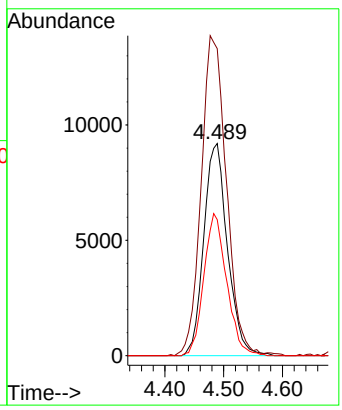




#27
cis-1,2-Dichloroethene
Concen: 20.196 ug/l
RT: 4.489 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 96 Resp: 2573

Ion	Ratio	Lower	Upper
96	100		
61	160.1	0.0	322.8
98	64.6	0.0	129.0



Instrument :
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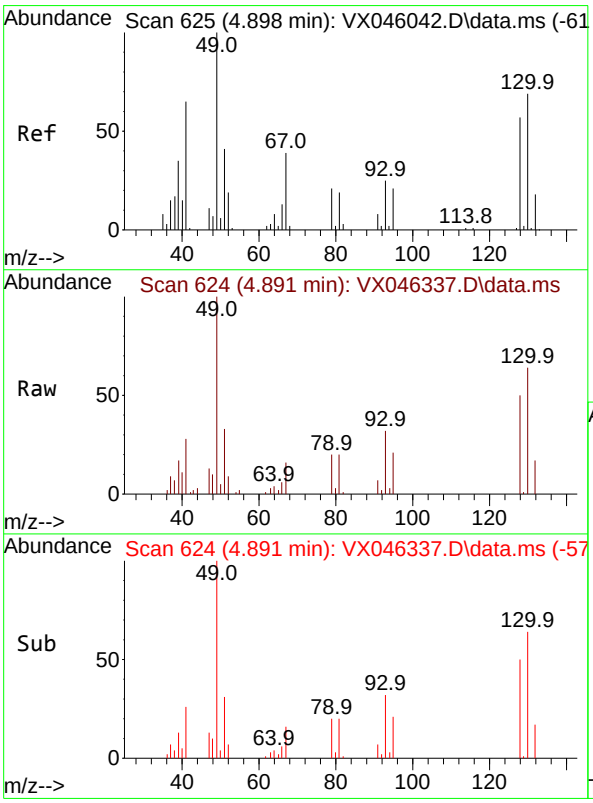
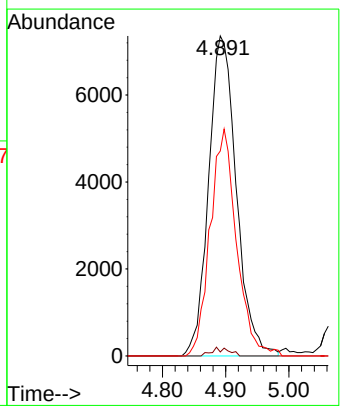
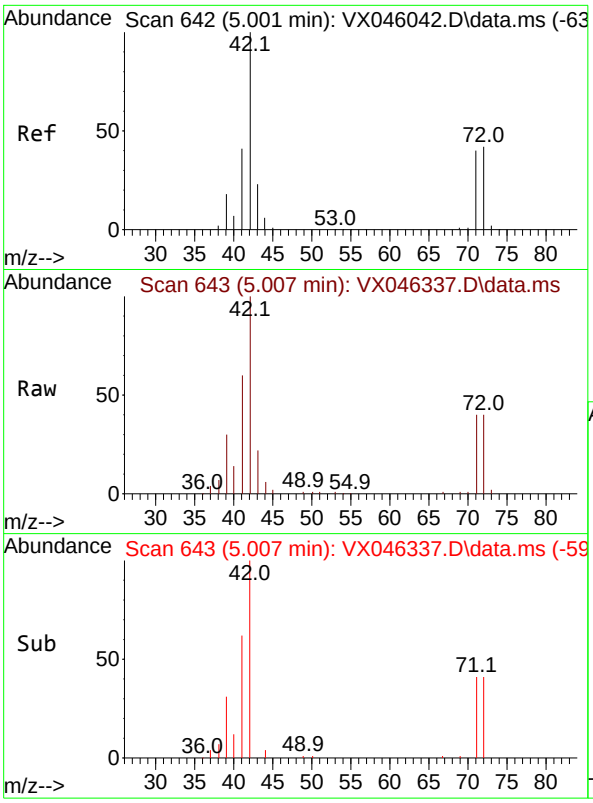


#28
Bromochloromethane
Concen: 21.483 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 49 Resp: 22384

Ion	Ratio	Lower	Upper
49	100		
129	1.6	0.0	4.0
130	67.5	56.2	84.2





#29
Tetrahydrofuran
Concen: 104.588 ug/l
RT: 5.007 min Scan# 64
Delta R.T. 0.006 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 42 Resp: 6314

Ion	Ratio	Lower	Upper
42	100		
72	43.0	33.7	50.5
71	39.2	31.4	47.2

Instrument :
MSVOA_X
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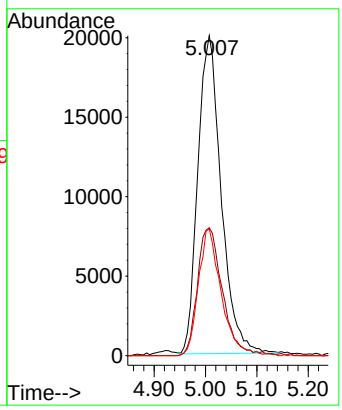
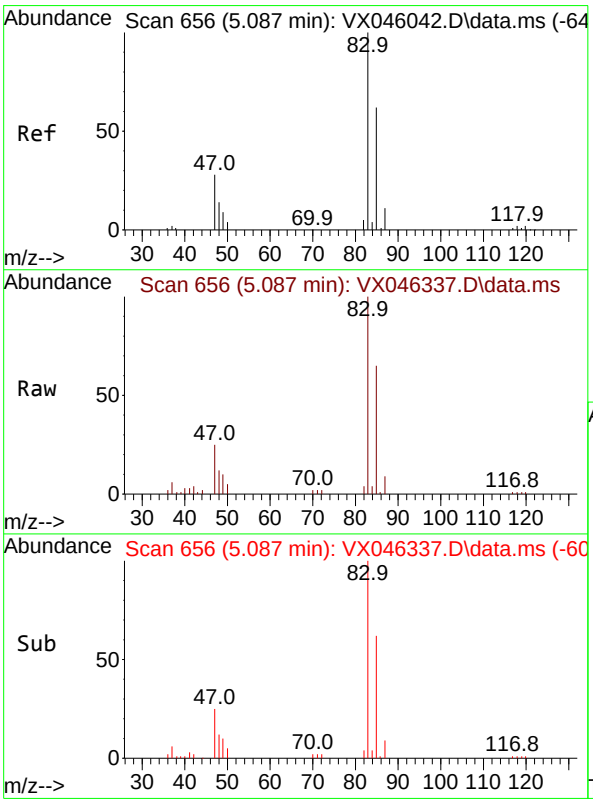
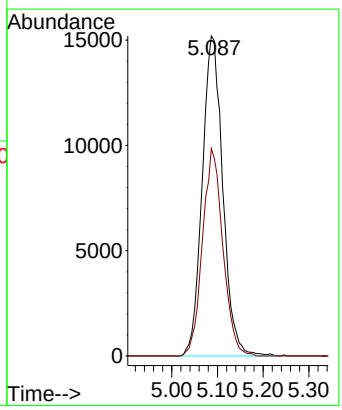


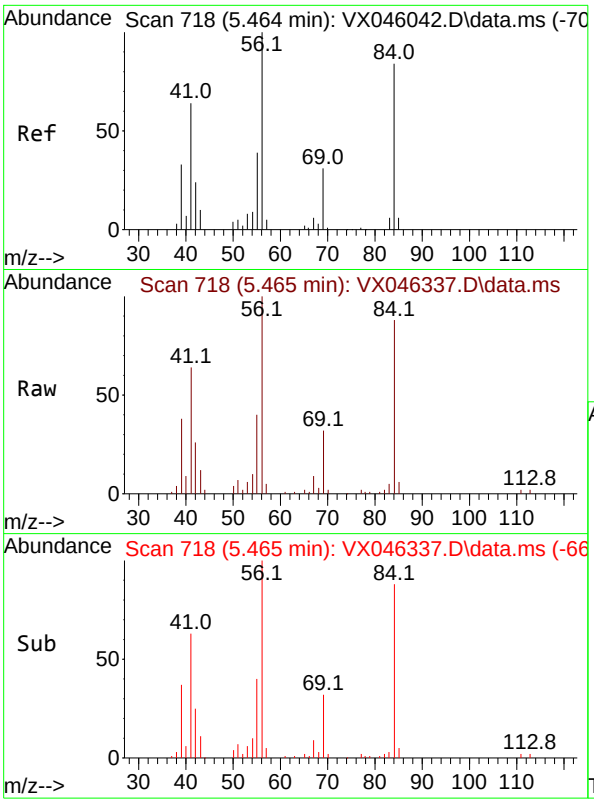


#30
Chloroform
Concen: 21.008 ug/l
RT: 5.087 min Scan# 656
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 83 Resp: 47399

Ion	Ratio	Lower	Upper
83	100		
85	64.9	49.3	73.9

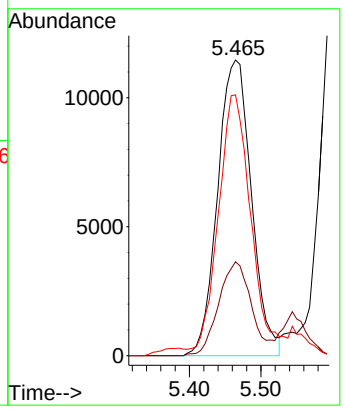




#31
Cyclohexane
Concen: 19.078 ug/l
RT: 5.465 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 56 Resp: 3763

Ion	Ratio	Lower	Upper
56	100		
69	31.8	24.4	36.6
84	85.6	66.9	100.3



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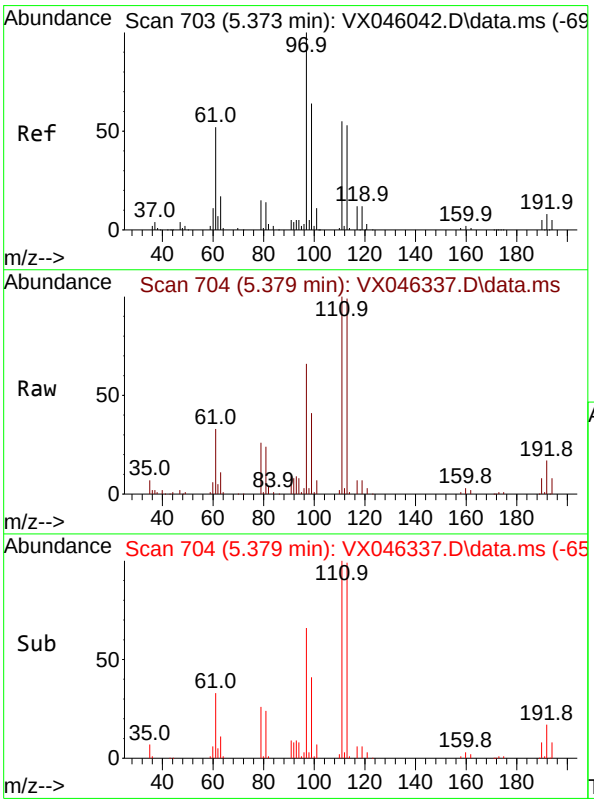
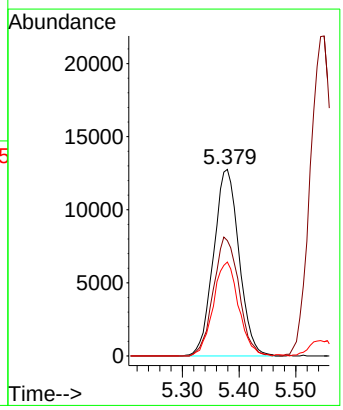
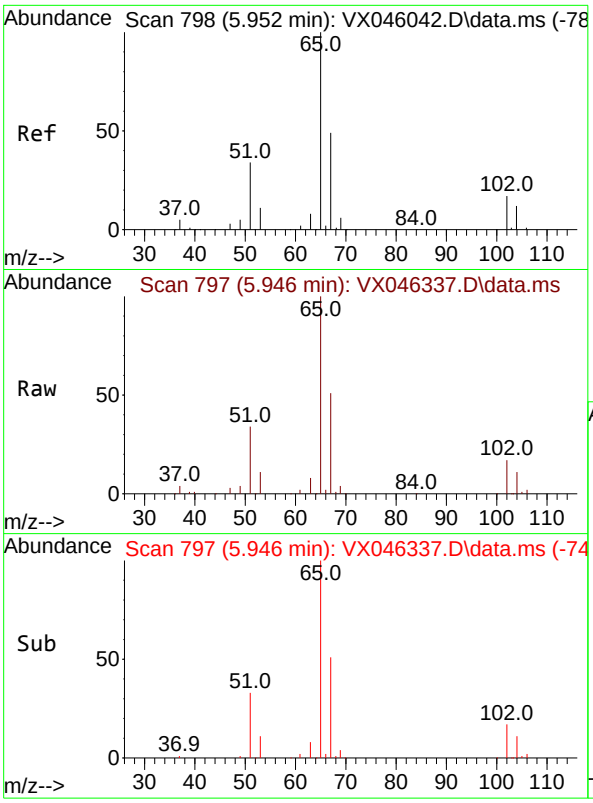


#32
1,1,1-Trichloroethane
Concen: 20.386 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.006 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 97 Resp: 39871

Ion	Ratio	Lower	Upper
97	100		
99	63.8	51.8	77.6
61	50.2	40.1	60.1

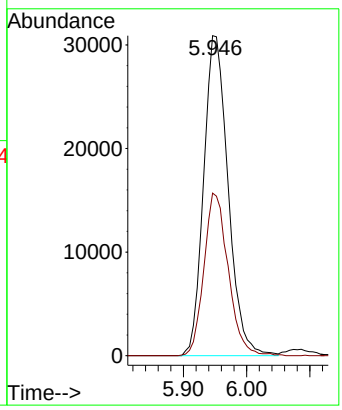




#33
1,2-Dichloroethane-d4
Concen: 50.193 ug/l
RT: 5.946 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 65 Resp: 8307

Ion	Ratio	Lower	Upper
65	100		
67	50.4	0.0	99.0



Instrument :
MSVOA_X
ClientSampleId :
VX0523WBSD01

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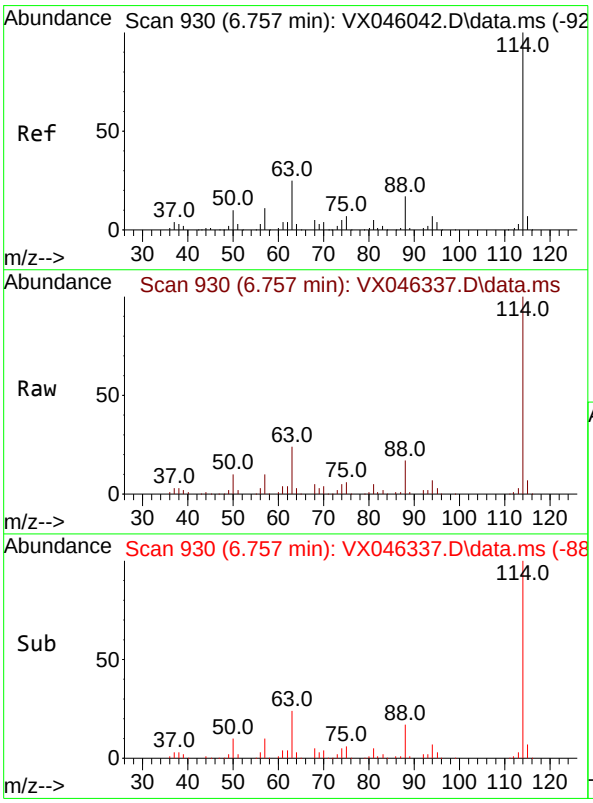
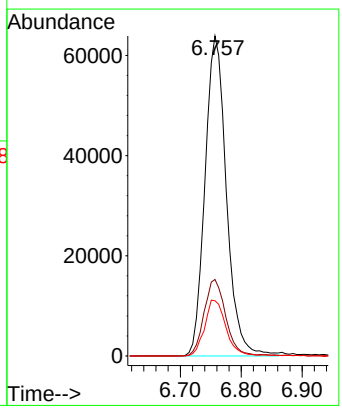
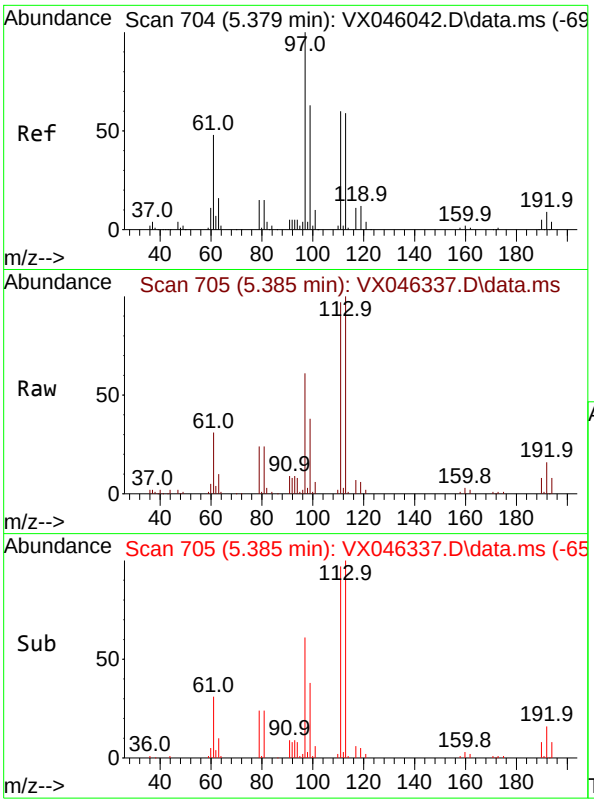


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion:114 Resp: 156018

Ion	Ratio	Lower	Upper
114	100		
63	23.9	0.0	49.2
88	17.3	0.0	33.6

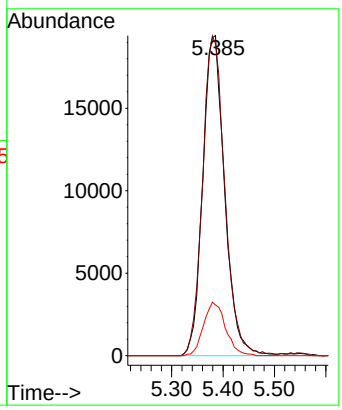




#35
Dibromofluoromethane
Concen: 51.100 ug/l
RT: 5.385 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion:113 Resp: 5741

Ion	Ratio	Lower	Upper
113	100		
111	101.8	83.1	124.7
192	16.9	13.3	19.9



Instrument :
MSVOA_X
ClientSampleId :
VX0523WBSD01

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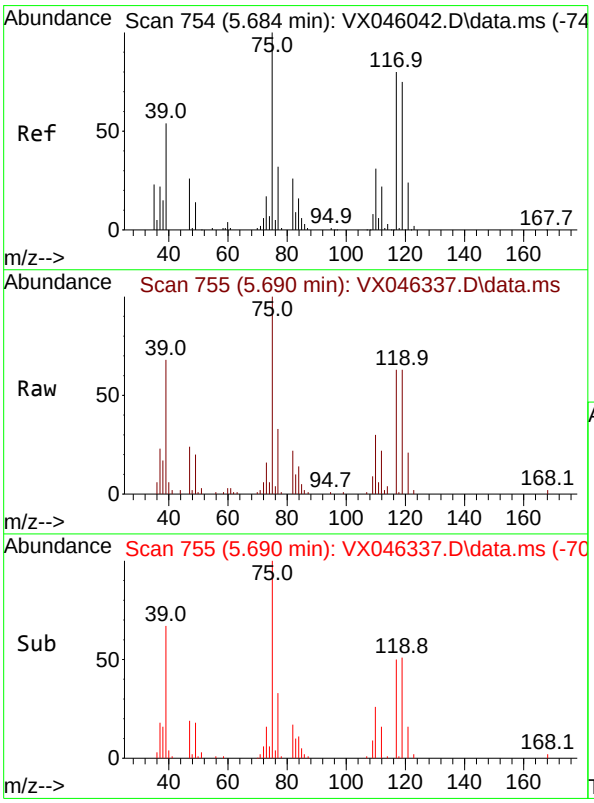
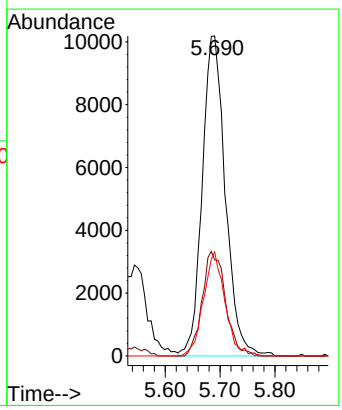
Supervised By :Mahesh Dadoda 05/26/2025

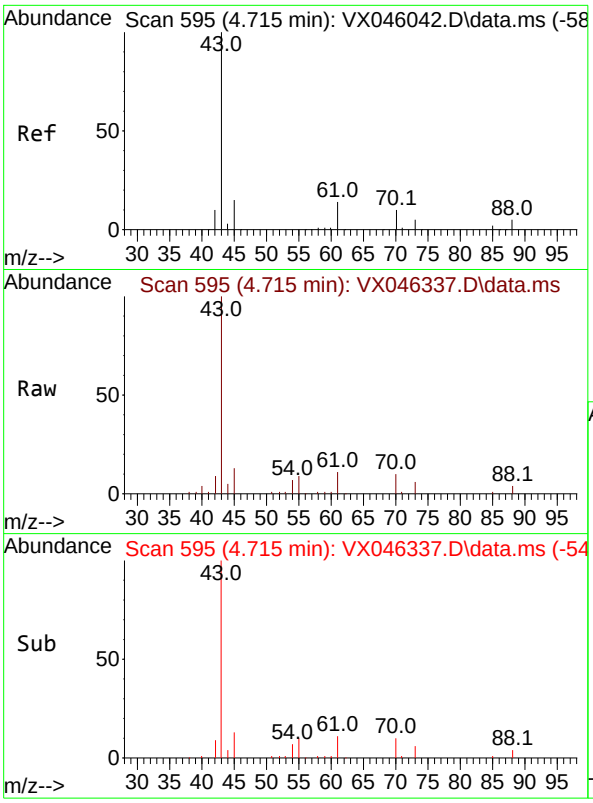


#36
1,1-Dichloropropene
Concen: 19.774 ug/l
RT: 5.690 min Scan# 755
Delta R.T. 0.006 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 75 Resp: 29850

Ion	Ratio	Lower	Upper
75	100		
110	32.8	16.3	48.9
77	30.2	24.3	36.5

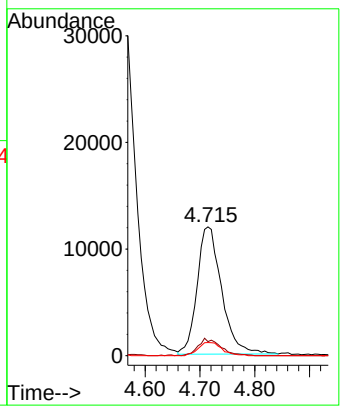




#37
Ethyl Acetate
Concen: 19.914 ug/l
RT: 4.715 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 43 Resp: 3714

Ion	Ratio	Lower	Upper
43	100		
61	12.4	10.3	15.5
70	9.9	7.9	11.9



Instrument :
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ClientSampleId :
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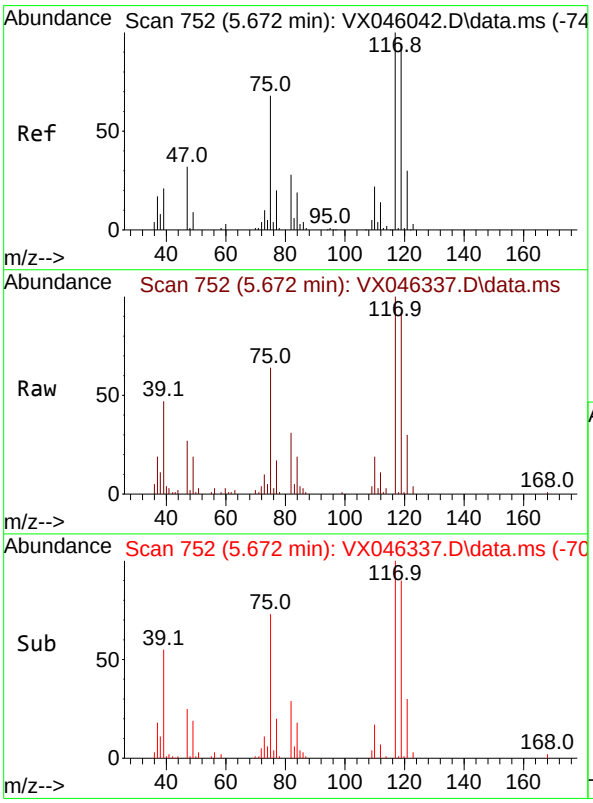
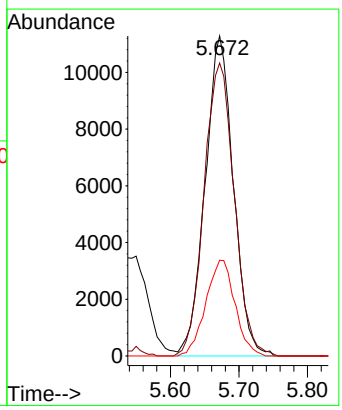
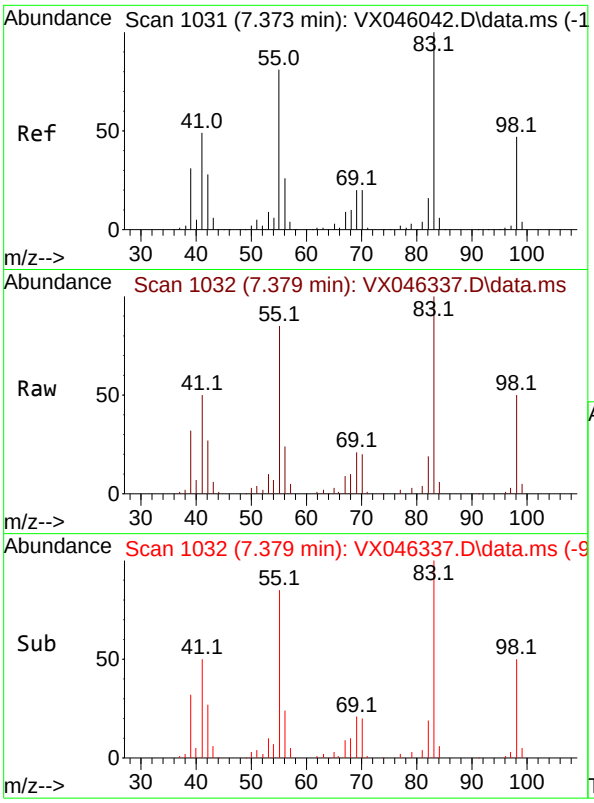


#38
Carbon Tetrachloride
Concen: 19.073 ug/l
RT: 5.672 min Scan# 752
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion:117 Resp: 32350

Ion	Ratio	Lower	Upper
117	100		
119	91.6	75.2	112.8
121	29.9	24.2	36.4

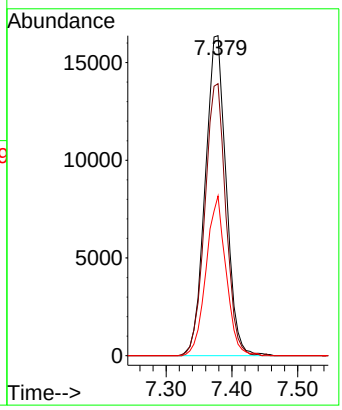




#39
Methylcyclohexane
Concen: 18.644 ug/l
RT: 7.379 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 83 Resp: 3623

Ion	Ratio	Lower	Upper
83	100		
55	85.0	64.7	97.1
98	49.9	37.4	56.2



Instrument :
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ClientSampleId :
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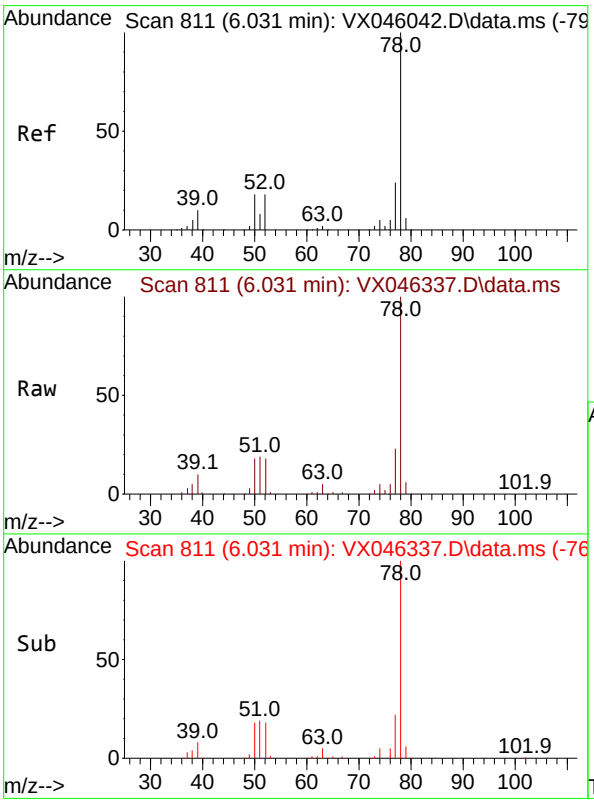
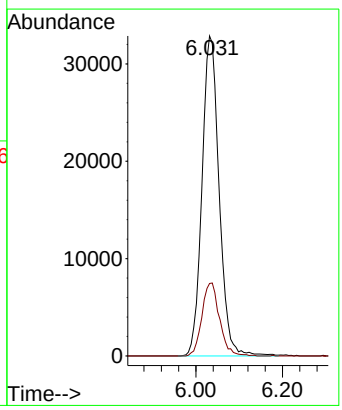
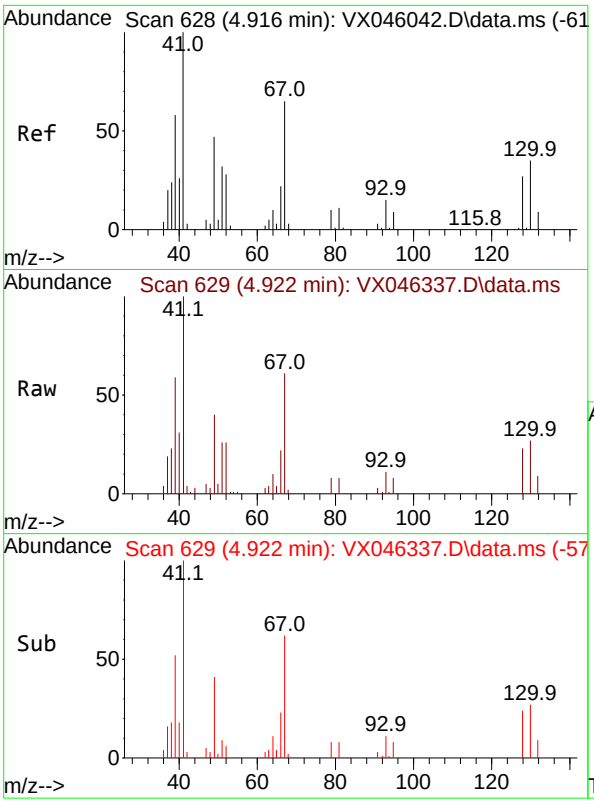


#40
Benzene
Concen: 20.439 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 78 Resp: 90373

Ion	Ratio	Lower	Upper
78	100		
77	22.7	19.0	28.4

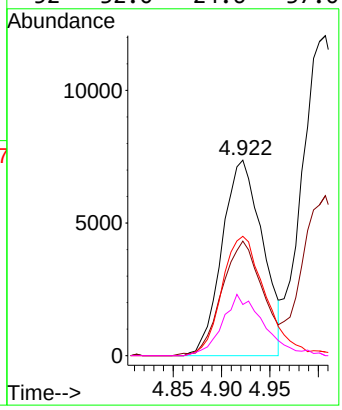




#41
Methacrylonitrile
Concen: 22.034 ug/l
RT: 4.922 min Scan# 6
Delta R.T. 0.006 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 41 Resp: 2149

Ion	Ratio	Lower	Upper
41	100		
39	58.5	47.2	70.8
67	65.9	50.7	76.1
52	32.0	24.6	37.0



Instrument :
MSVOA_X
ClientSampleId :
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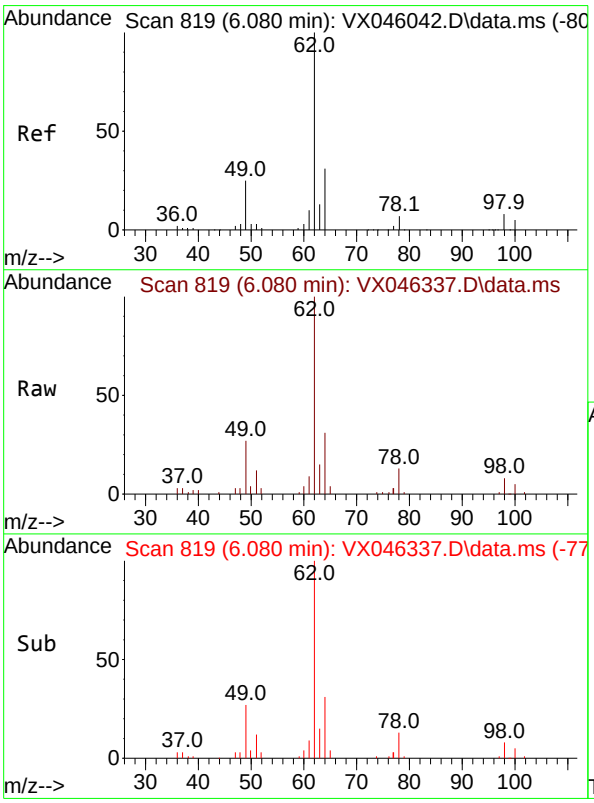
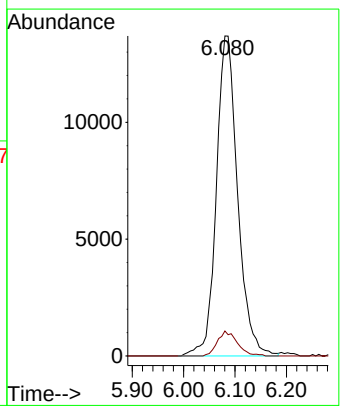
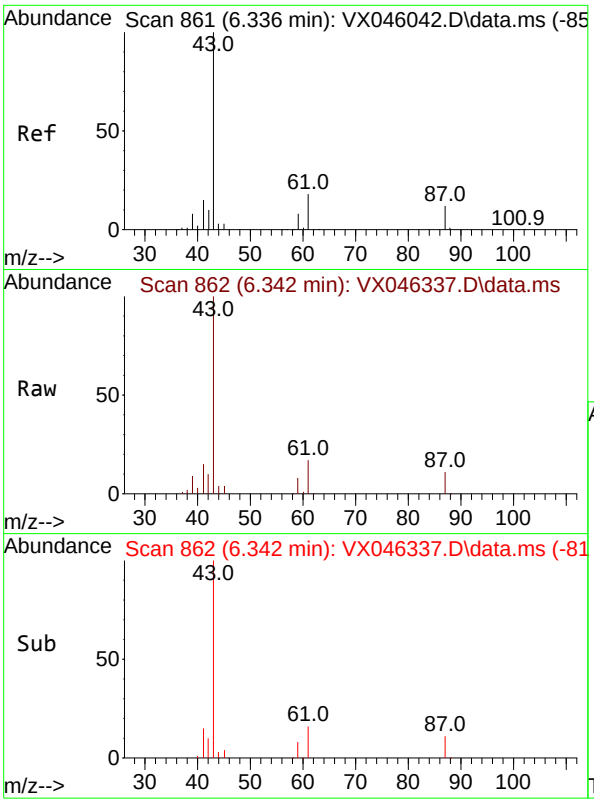


#42
1,2-Dichloroethane
Concen: 20.654 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 62 Resp: 39414

Ion	Ratio	Lower	Upper
62	100		
98	7.3	0.0	15.2





#43
Isopropyl Acetate
Concen: 21.036 ug/l
RT: 6.342 min Scan# 8
Delta R.T. 0.006 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 43 Resp: 5985

Ion	Ratio	Lower	Upper
43	100		
61	18.0	14.3	21.5
87	11.8	9.5	14.3

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBSD01

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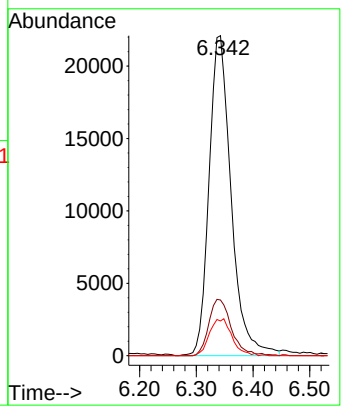
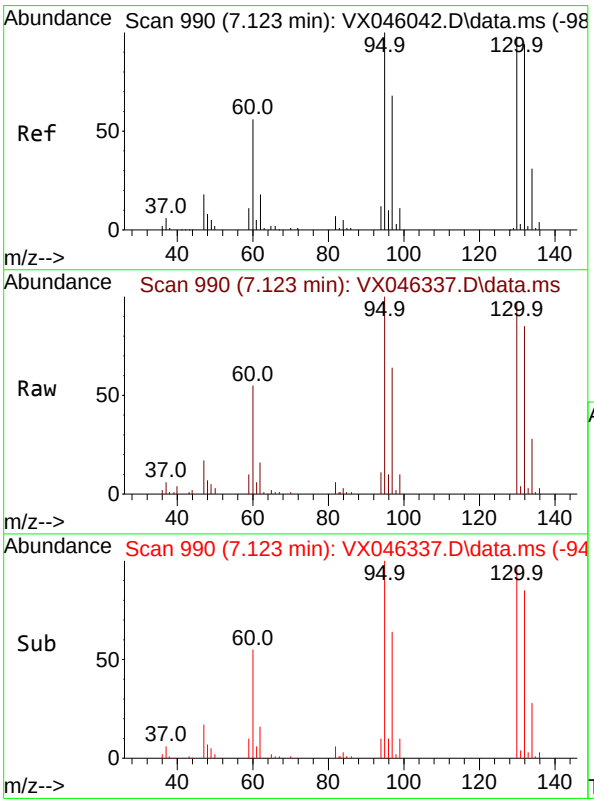
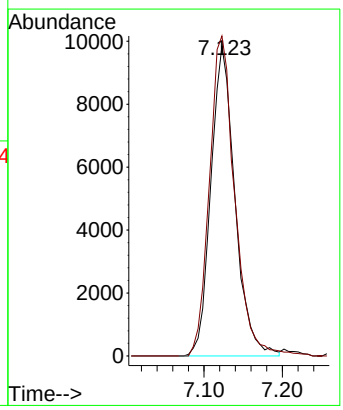


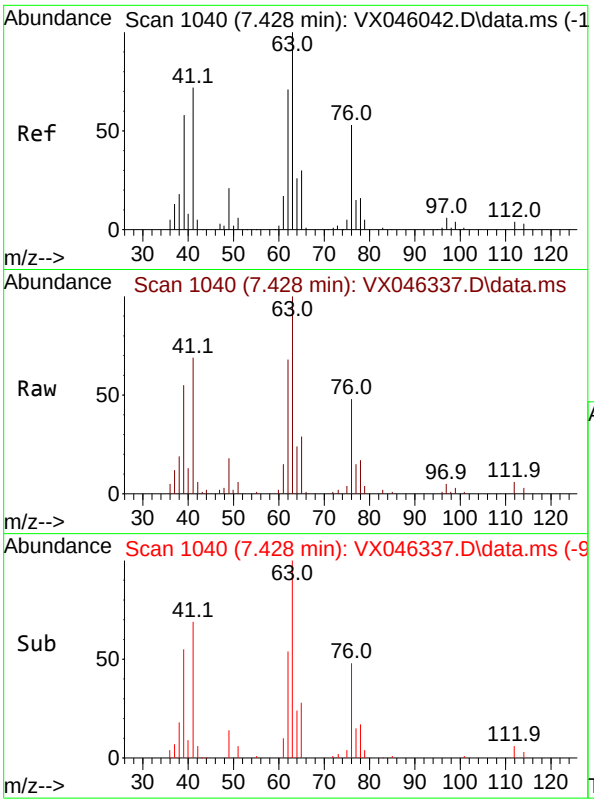


#44
Trichloroethene
Concen: 19.770 ug/l
RT: 7.123 min Scan# 990
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion:130 Resp: 21039

Ion	Ratio	Lower	Upper
130	100		
95	103.2	0.0	204.2





#45
1,2-Dichloropropane
Concen: 21.269 ug/l
RT: 7.428 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 63 Resp: 2338

Ion	Ratio	Lower	Upper
63	100		
65	29.2	24.1	36.1

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBSD01

Manual Integrations
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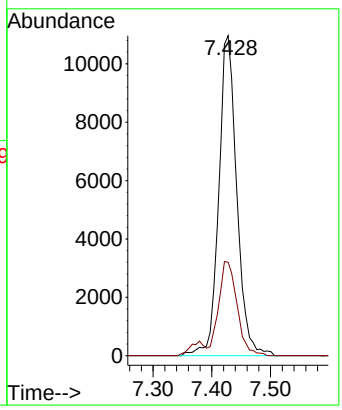
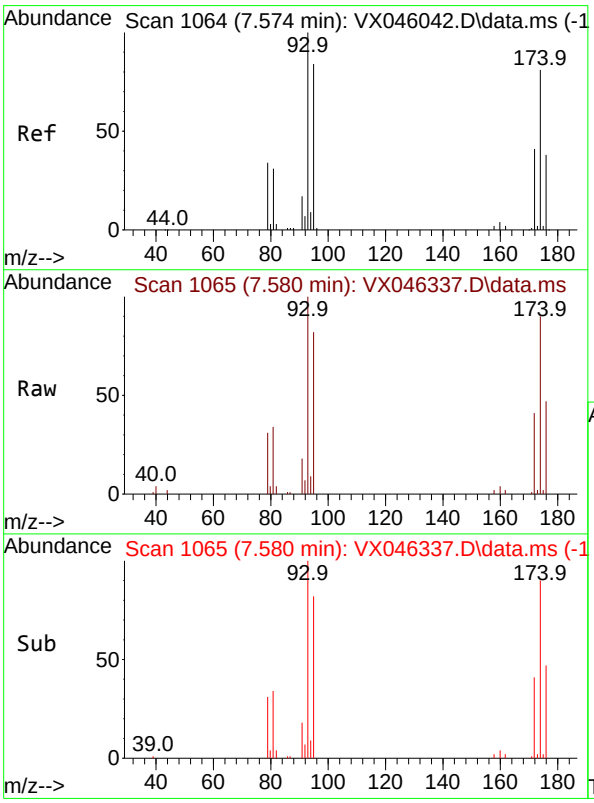
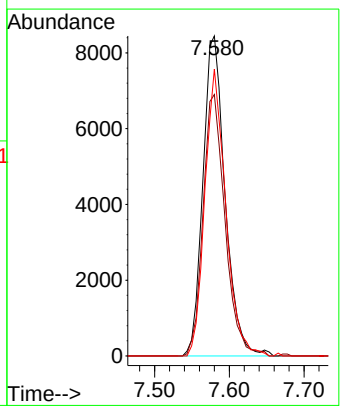


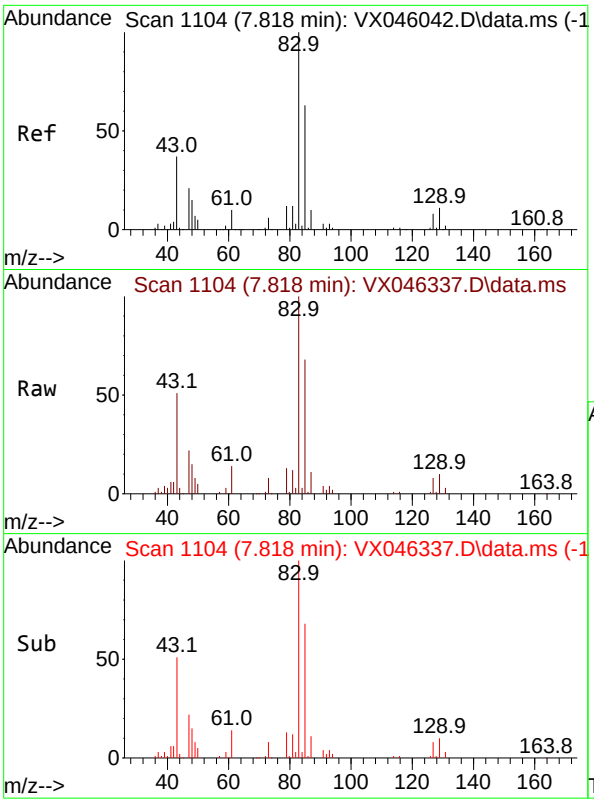


#46
Dibromomethane
Concen: 20.043 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. 0.006 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 93 Resp: 17380

Ion	Ratio	Lower	Upper
93	100		
95	81.3	65.6	98.4
174	84.6	68.2	102.2

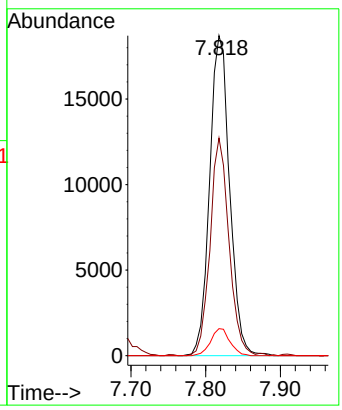




#47
Bromodichloromethane
Concen: 20.324 ug/l
RT: 7.818 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 83 Resp: 3471

Ion	Ratio	Lower	Upper
83	100		
85	68.0	50.5	75.7
127	8.5	6.5	9.7



Instrument :
MSVOA_X
ClientSampleId :
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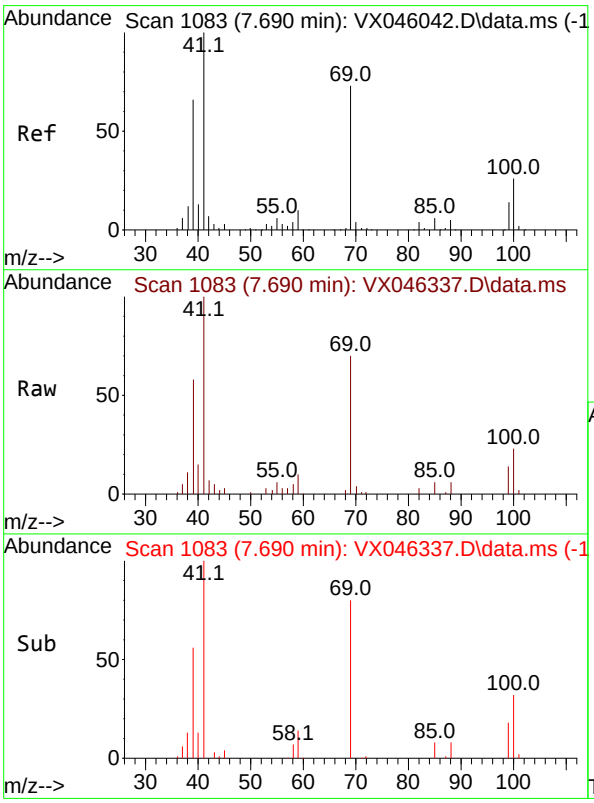
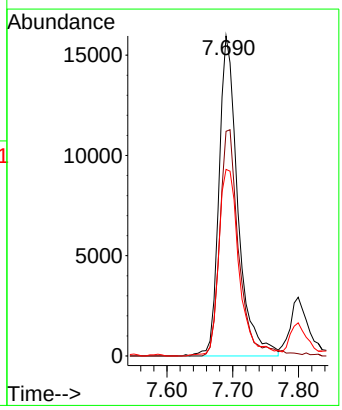
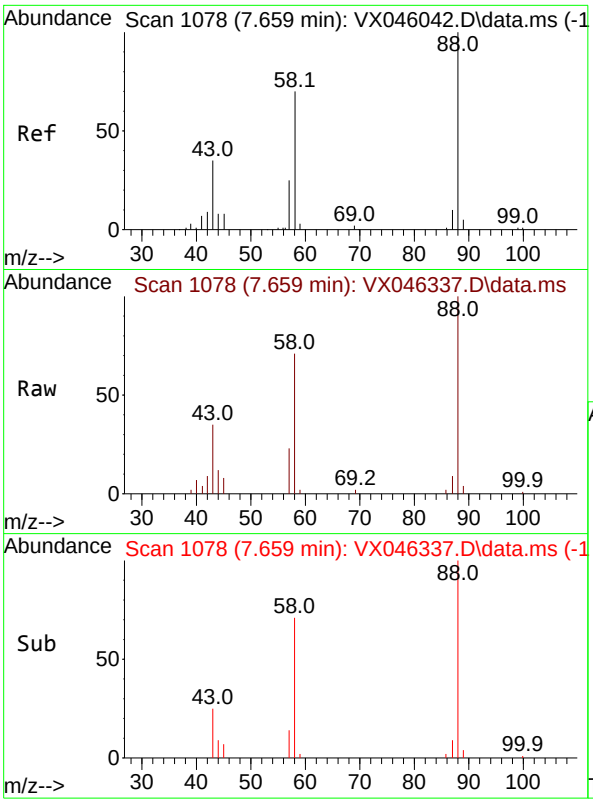


#48
Methyl methacrylate
Concen: 21.940 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 41 Resp: 31880

Ion	Ratio	Lower	Upper
41	100		
69	71.7	58.5	87.7
39	63.9	51.7	77.5





#49
1,4-Dioxane
Concen: 443.135 ug/l
RT: 7.659 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 88 Resp: 1222

Ion	Ratio	Lower	Upper
88	100		
43	43.0	33.4	50.2
58	73.8	58.6	88.0

Instrument :
MSVOA_X
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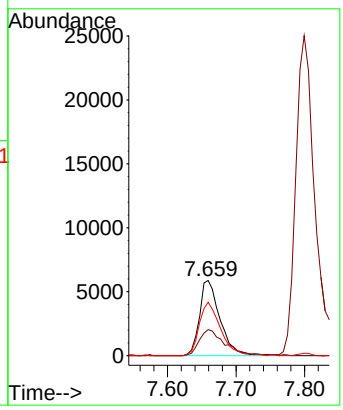
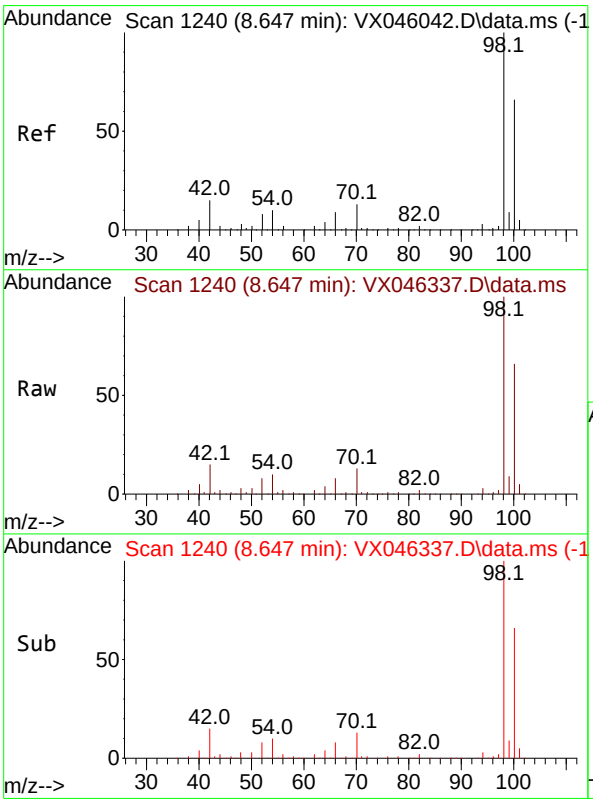
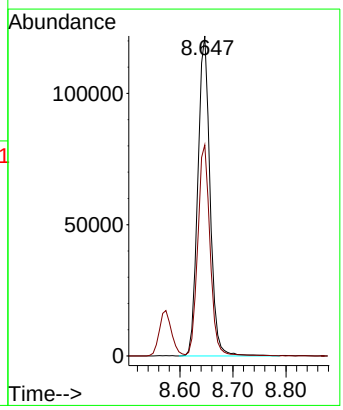


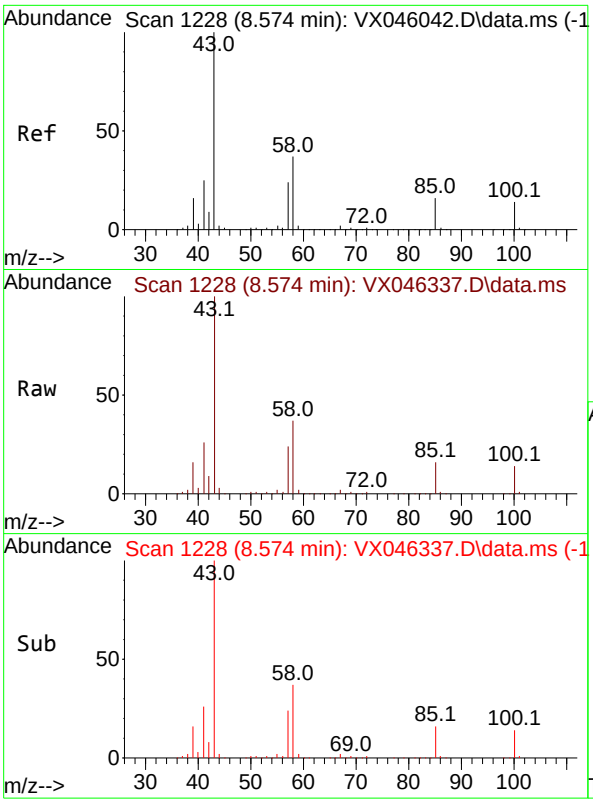


#50
Toluene-d8
Concen: 50.259 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 98 Resp: 195435

Ion	Ratio	Lower	Upper
98	100		
100	66.4	53.5	80.3

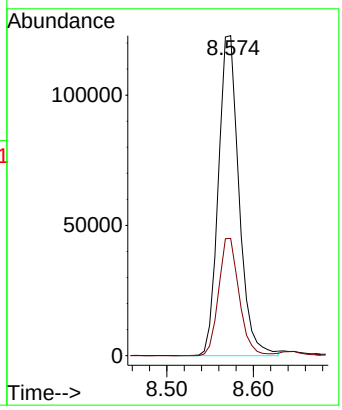




#51
4-Methyl-2-Pentanone
Concen: 107.703 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 43 Resp: 20340

Ion	Ratio	Lower	Upper
43	100		
58	36.4	28.9	43.3



Instrument :
MSVOA_X
ClientSampleId :
VX0523WBSD01

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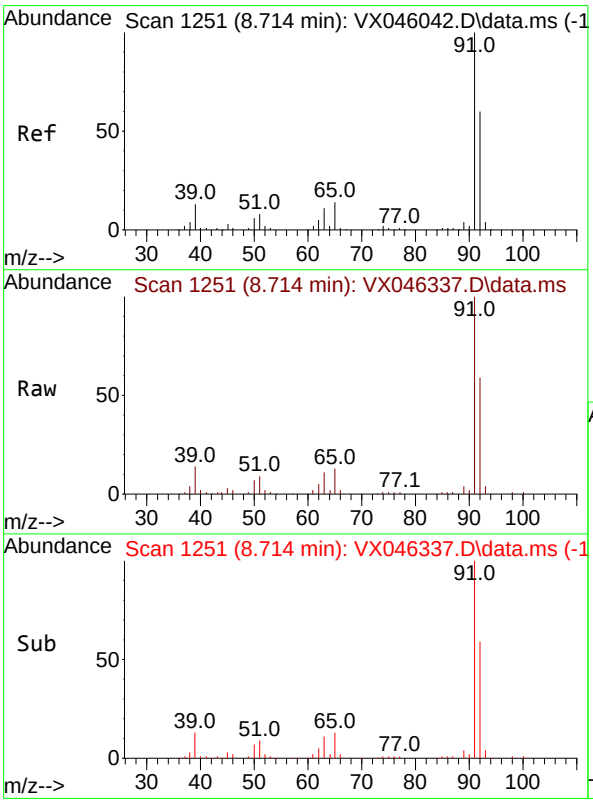
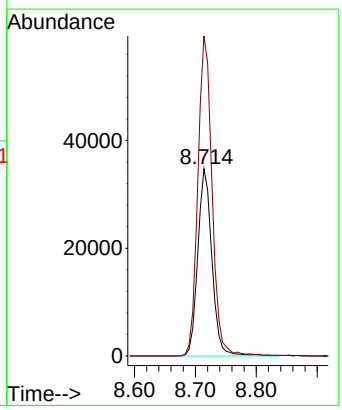
Supervised By :Mahesh Dadoda 05/26/2025

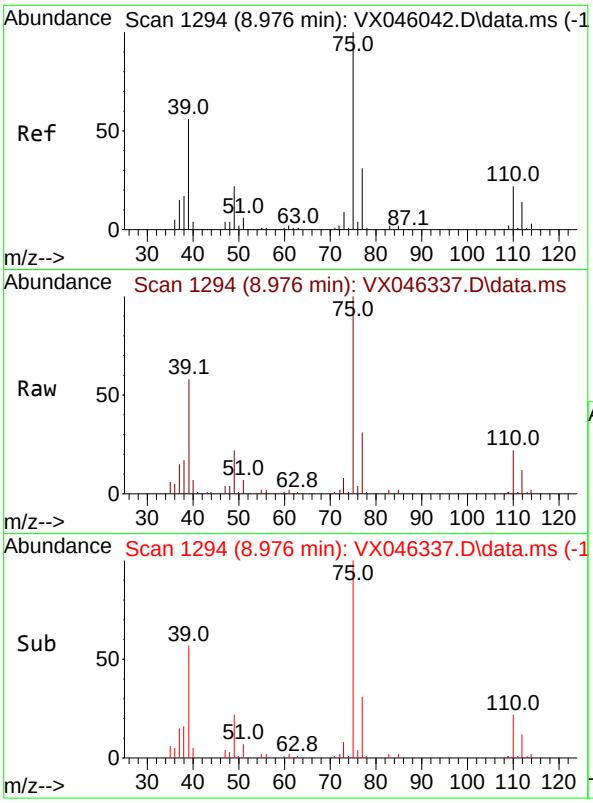


#52
Toluene
Concen: 20.664 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 92 Resp: 56025

Ion	Ratio	Lower	Upper
92	100		
91	172.1	136.6	205.0

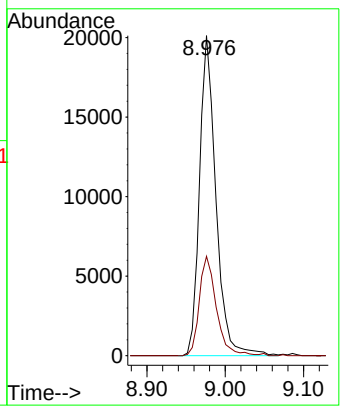




#53
t-1,3-Dichloropropene
Concen: 19.250 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 75 Resp: 2922

Ion	Ratio	Lower	Upper
75	100		
77	31.0	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
VX0523WBSD01

Manual Integrations
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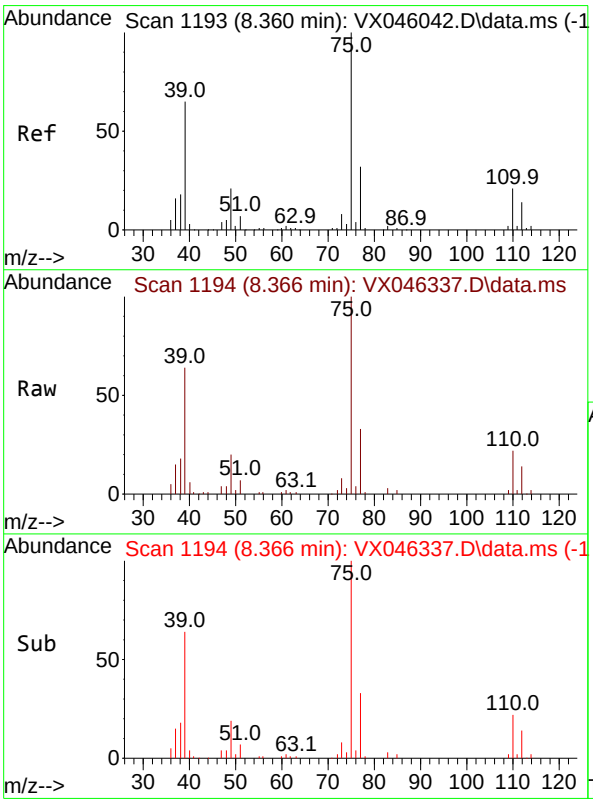
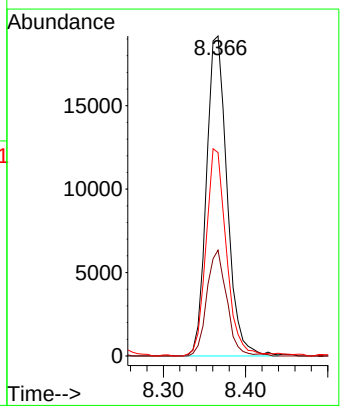
Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025

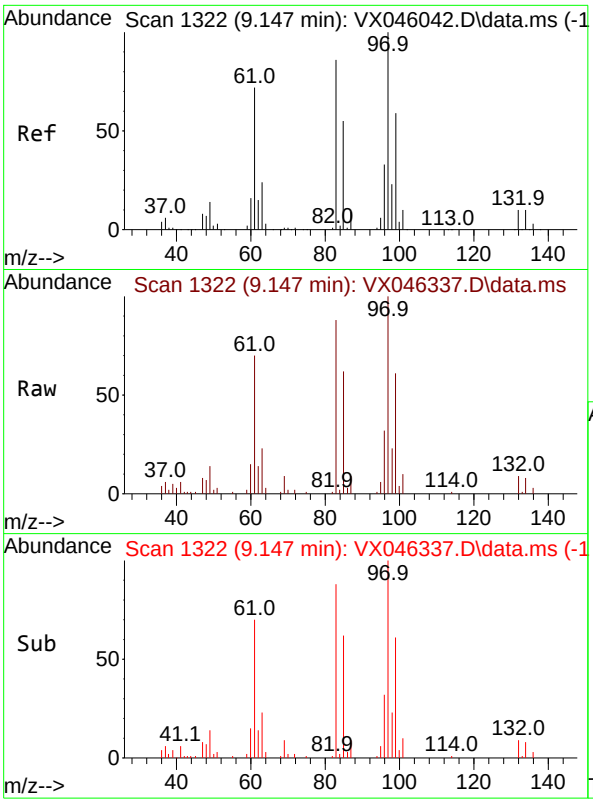


#54
cis-1,3-Dichloropropene
Concen: 19.964 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.006 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 75 Resp: 33496

Ion	Ratio	Lower	Upper
75	100		
77	33.0	25.4	38.0
39	63.5	52.2	78.4

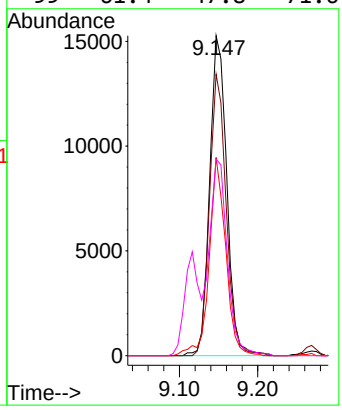




#55
1,1,2-Trichloroethane
Concen: 21.669 ug/l
RT: 9.147 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 97 Resp: 2316

Ion	Ratio	Lower	Upper
97	100		
83	88.0	69.0	103.6
85	62.0	44.3	66.5
99	61.4	47.8	71.6



Instrument :
MSVOA_X
ClientSampleId :
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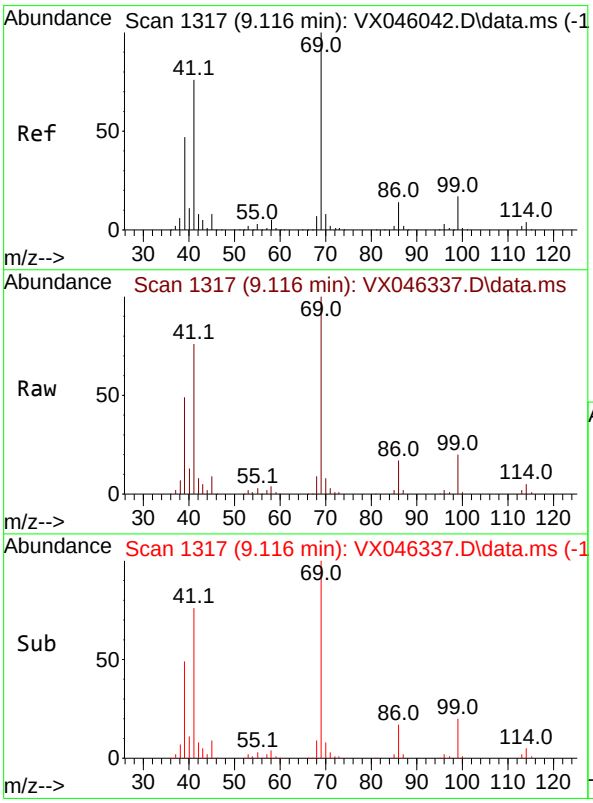
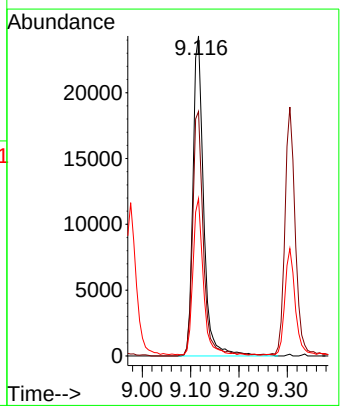
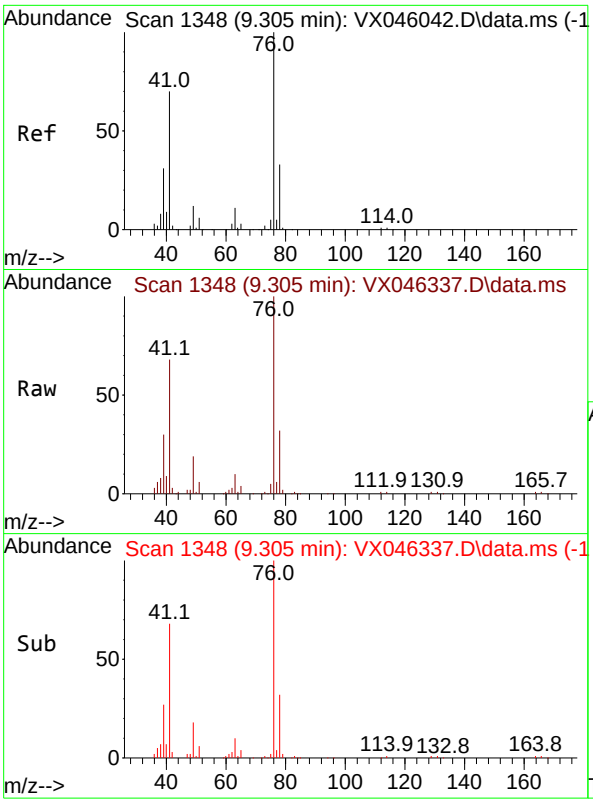


#56
Ethyl methacrylate
Concen: 21.892 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 69 Resp: 37300

Ion	Ratio	Lower	Upper
69	100		
41	77.0	60.8	91.2
39	47.8	39.0	58.6

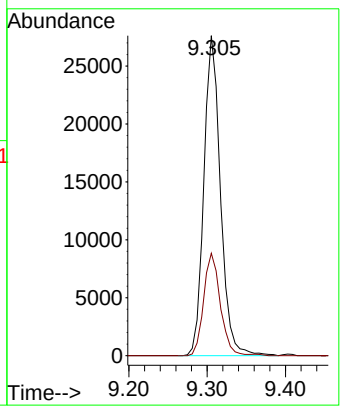




#57
1,3-Dichloropropane
Concen: 21.164 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 76 Resp: 4063

Ion	Ratio	Lower	Upper
76	100		
78	32.2	26.3	39.5



Instrument :
MSVOA_X
ClientSampleId :
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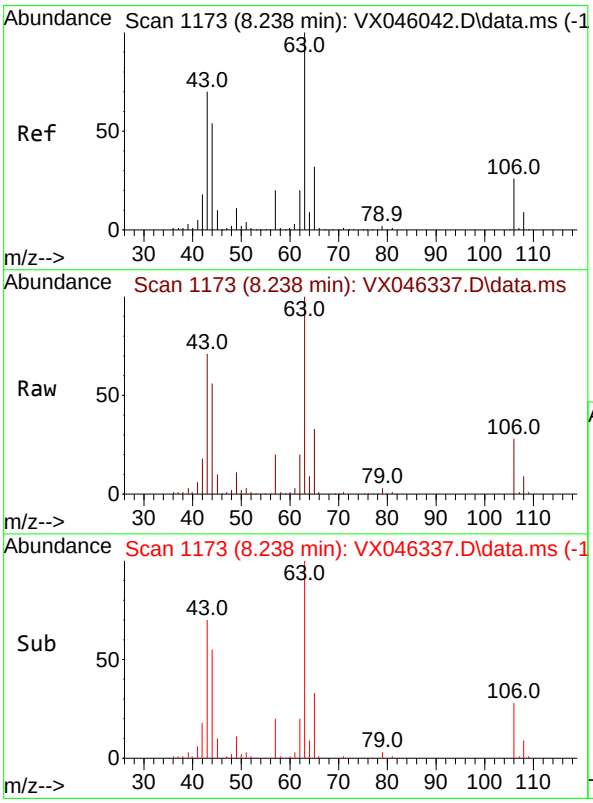
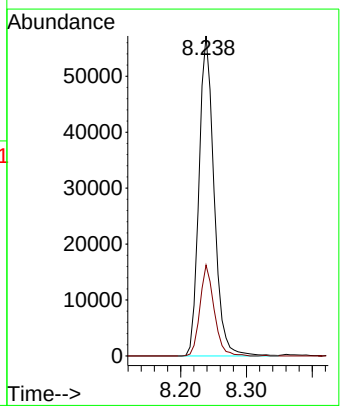
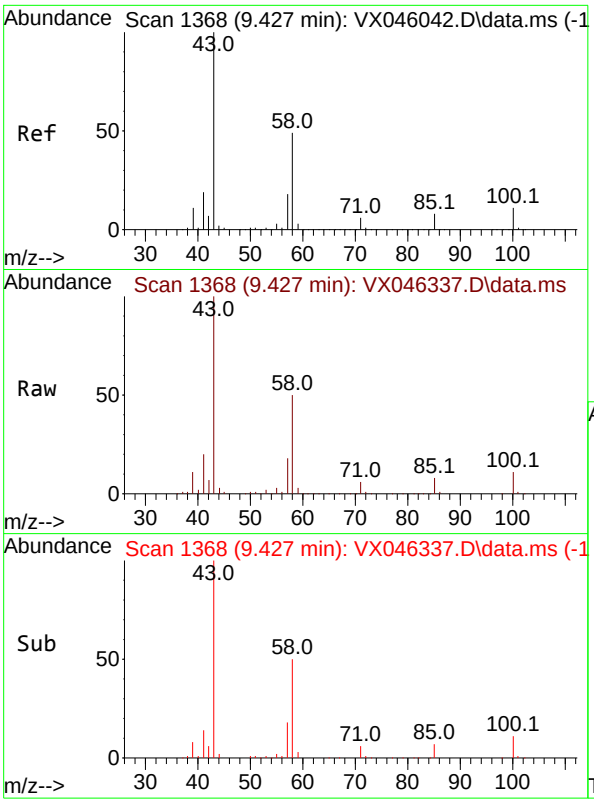


#58
2-Chloroethyl Vinyl ether
Concen: 105.020 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 63 Resp: 91224

Ion	Ratio	Lower	Upper
63	100		
106	26.8	21.5	32.3

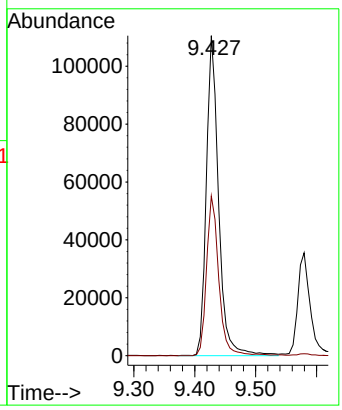




#59
2-Hexanone
Concen: 110.651 ug/l
RT: 9.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 43 Resp: 15460

Ion	Ratio	Lower	Upper
43	100		
58	50.1	24.9	74.6



Instrument :
MSVOA_X
ClientSampleId :
VX0523WBSD01

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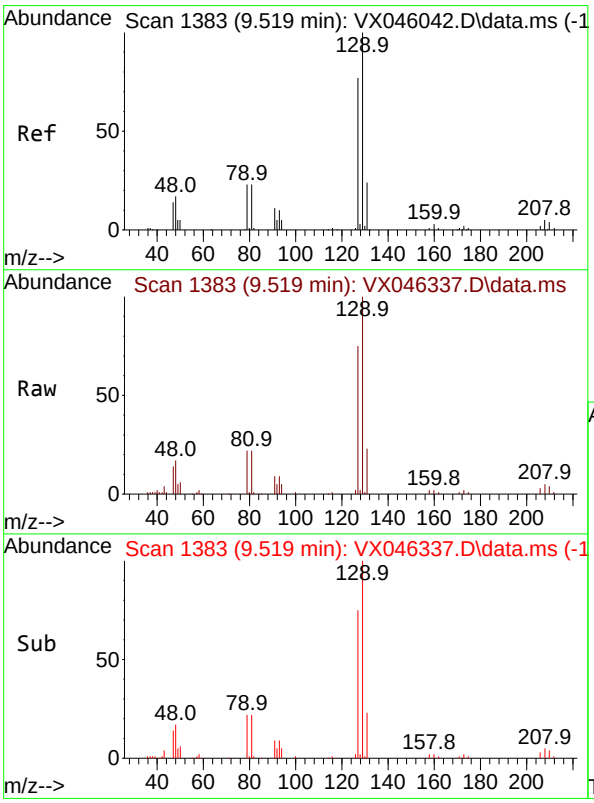
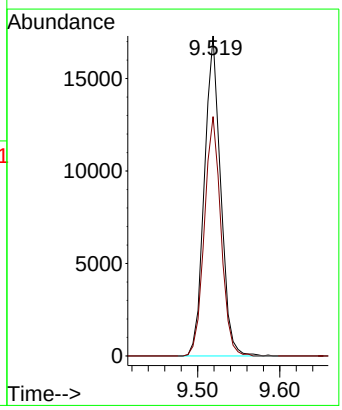
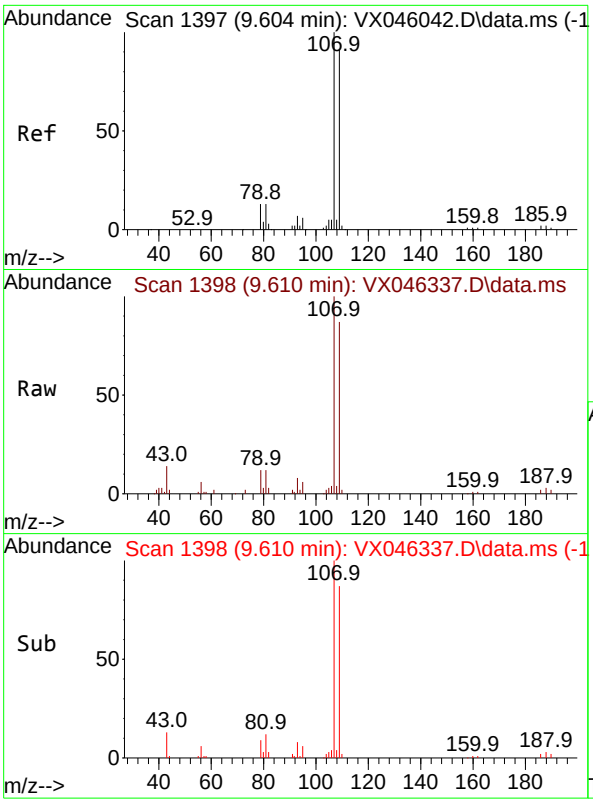


#60
Dibromochloromethane
Concen: 20.267 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion:129 Resp: 23795

Ion	Ratio	Lower	Upper
129	100		
127	76.0	39.3	117.8

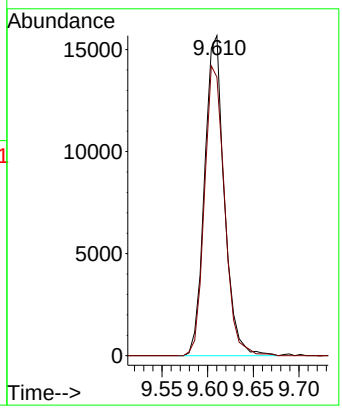




#61
1,2-Dibromoethane
Concen: 21.090 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion:107 Resp: 2343

Ion	Ratio	Lower	Upper
107	100		
109	92.4	73.3	109.9



Instrument :
MSVOA_X
ClientSampleId :
VX0523WBSD01

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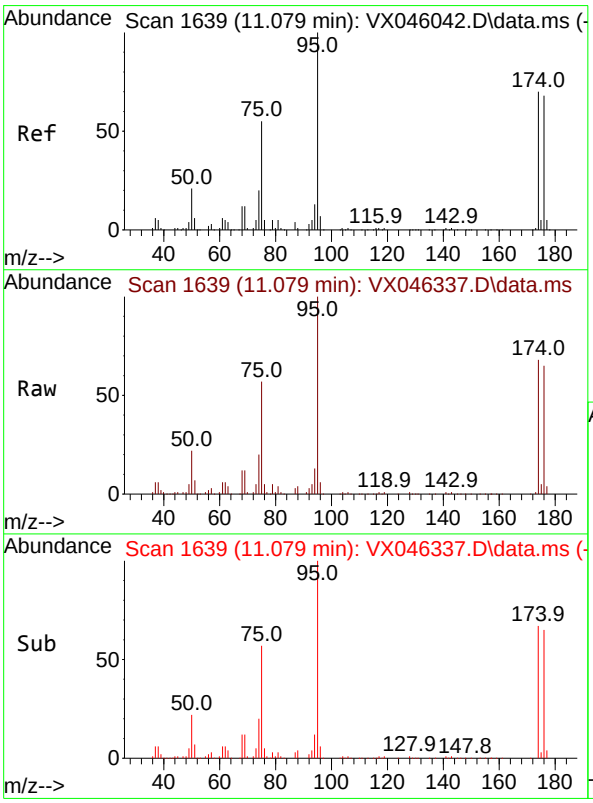
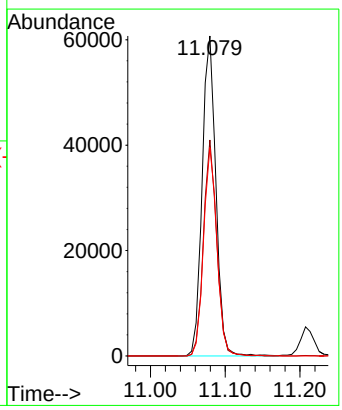
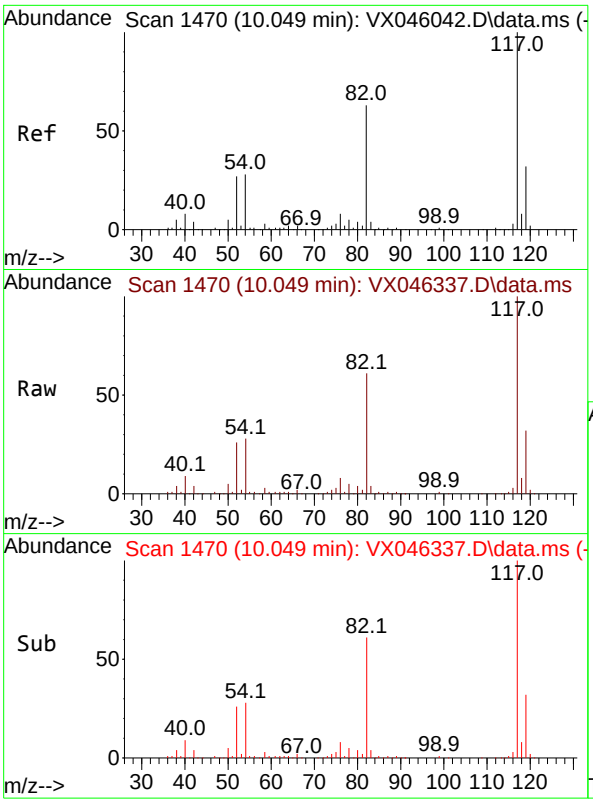


#62
4-Bromofluorobenzene
Concen: 51.761 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 95 Resp: 77206

Ion	Ratio	Lower	Upper
95	100		
174	65.2	0.0	135.8
176	63.8	0.0	131.4

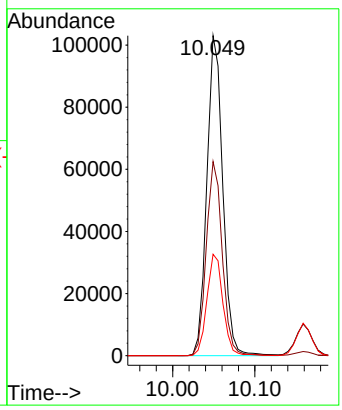




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion:117 Resp: 13856

Ion	Ratio	Lower	Upper
117	100		
82	60.6	50.6	76.0
119	31.7	25.8	38.6



Instrument :
MSVOA_X
ClientSampleId :
VX0523WBSD01

Manual Integrations
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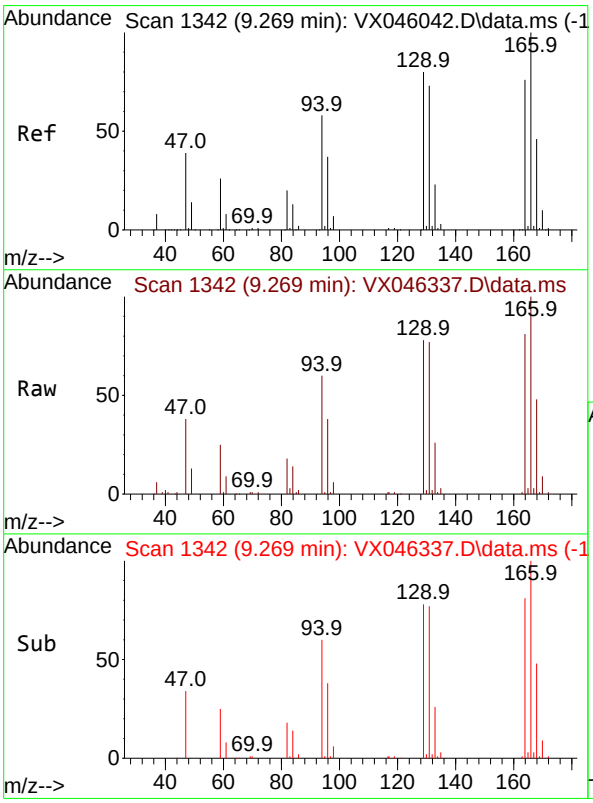
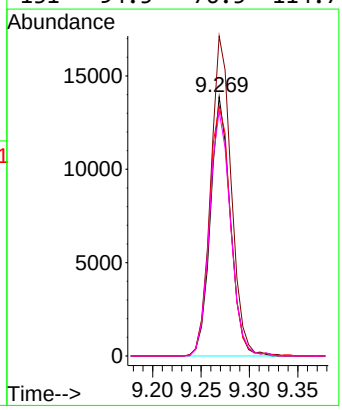
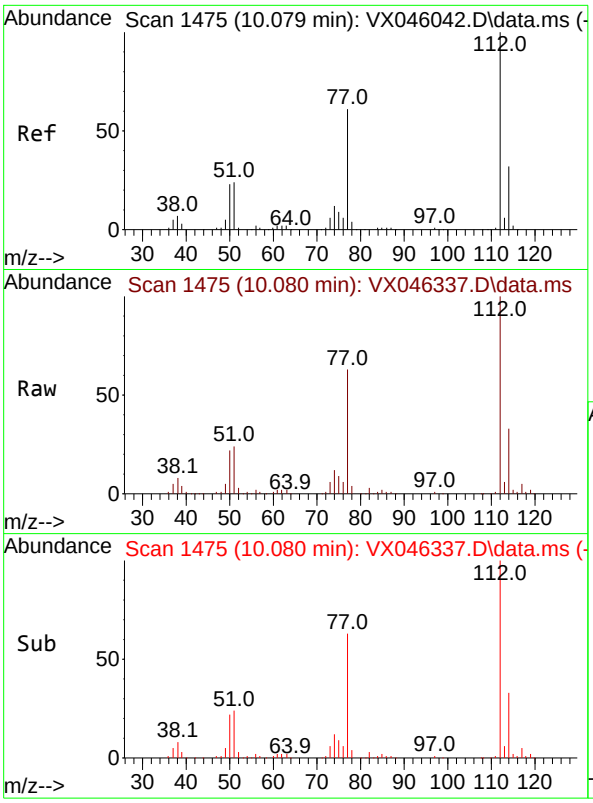


#64
Tetrachloroethene
Concen: 20.184 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion:164 Resp: 19788

Ion	Ratio	Lower	Upper
164	100		
166	123.5	105.0	157.6
129	96.4	83.5	125.3
131	94.5	76.5	114.7

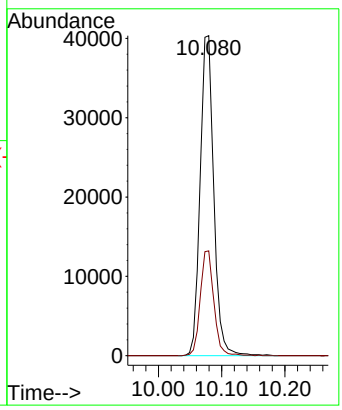




#65
Chlorobenzene
Concen: 20.002 ug/l
RT: 10.080 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion:112 Resp: 6066

Ion	Ratio	Lower	Upper
112	100		
114	32.8	25.4	38.2



Instrument :
MSVOA_X
ClientSampleId :
VX0523WBSD01

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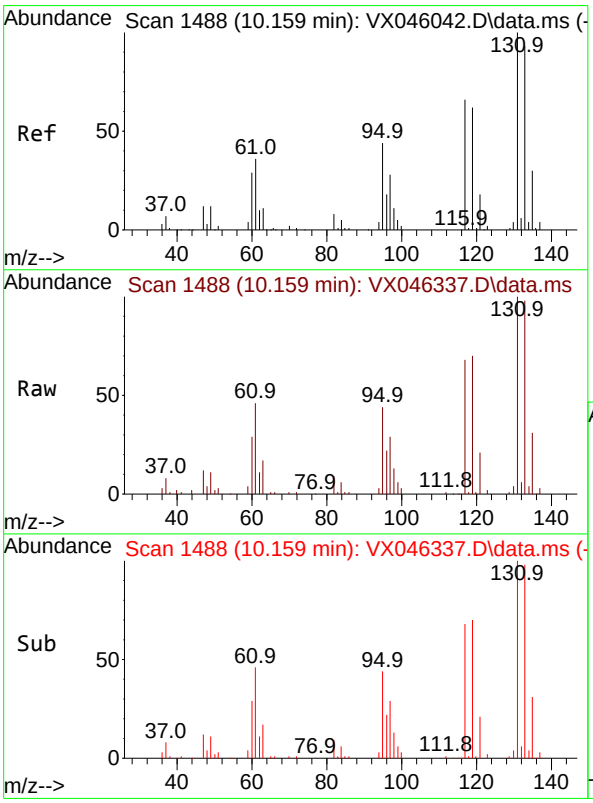
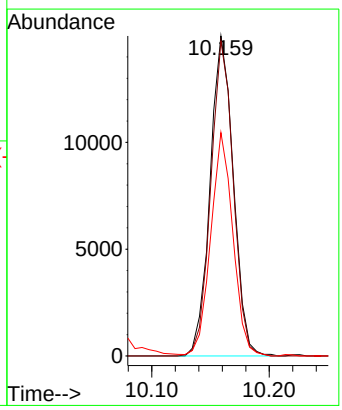
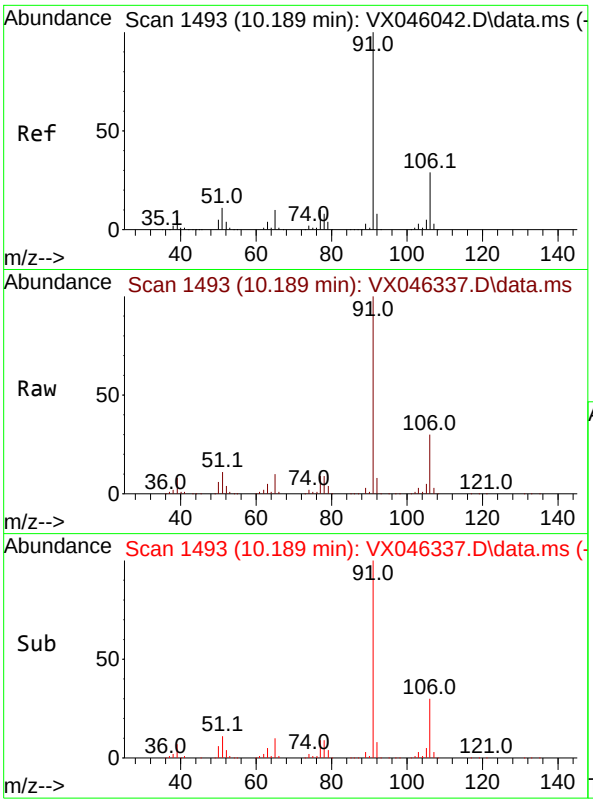


#66
1,1,1,2-Tetrachloroethane
Concen: 19.892 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion:131 Resp: 20600

Ion	Ratio	Lower	Upper
131	100		
133	95.0	47.3	141.9
119	66.4	31.6	95.0

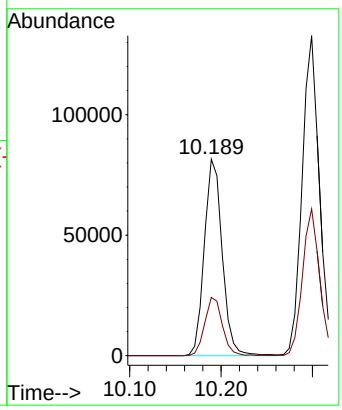




#67
Ethyl Benzene
Concen: 20.709 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 91 Resp: 11071

Ion	Ratio	Lower	Upper
91	100		
106	29.6	23.4	35.2



Instrument :
MSVOA_X
ClientSampleId :
VX0523WBSD01

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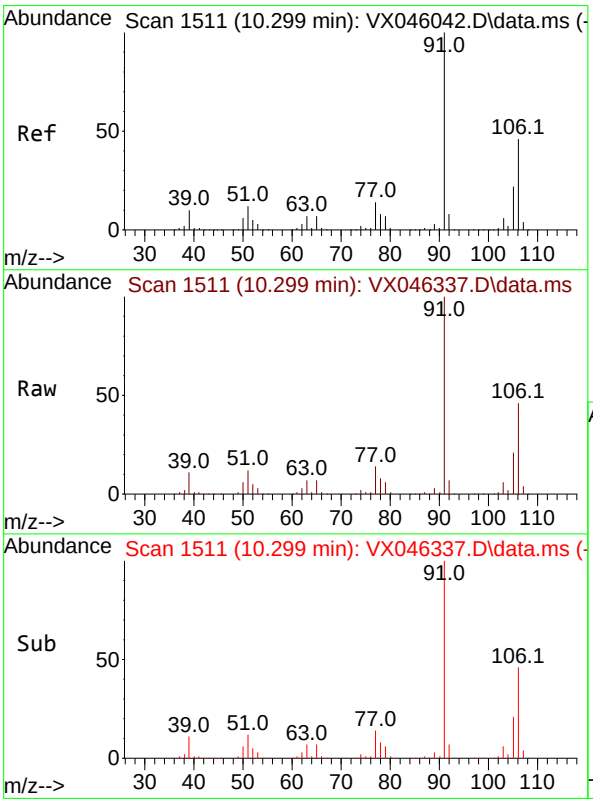
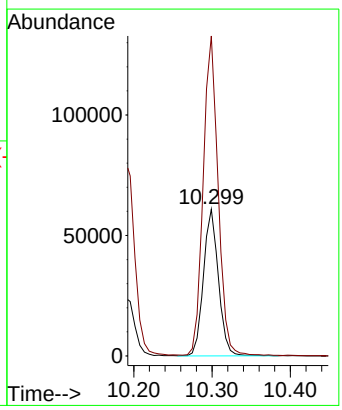
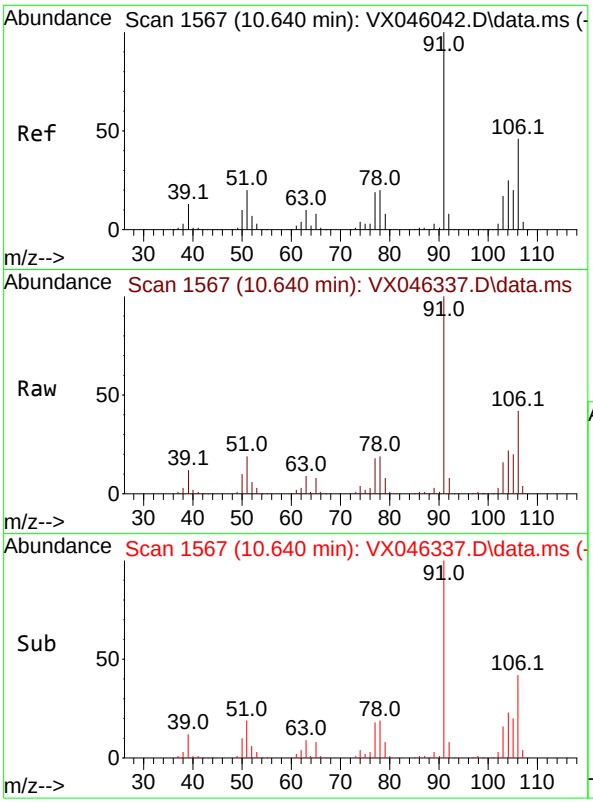


#68
m/p-Xylenes
Concen: 41.069 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion:106 Resp: 80300

Ion	Ratio	Lower	Upper
106	100		
91	218.4	171.2	256.8

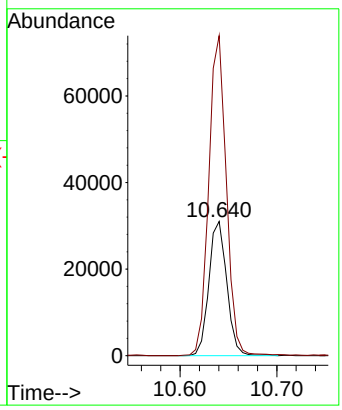




#69
o-Xylene
Concen: 20.990 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion:106 Resp: 4001

Ion	Ratio	Lower	Upper
106	100		
91	234.4	112.7	338.1



Instrument :
MSVOA_X
ClientSampleId :
VX0523WBSD01

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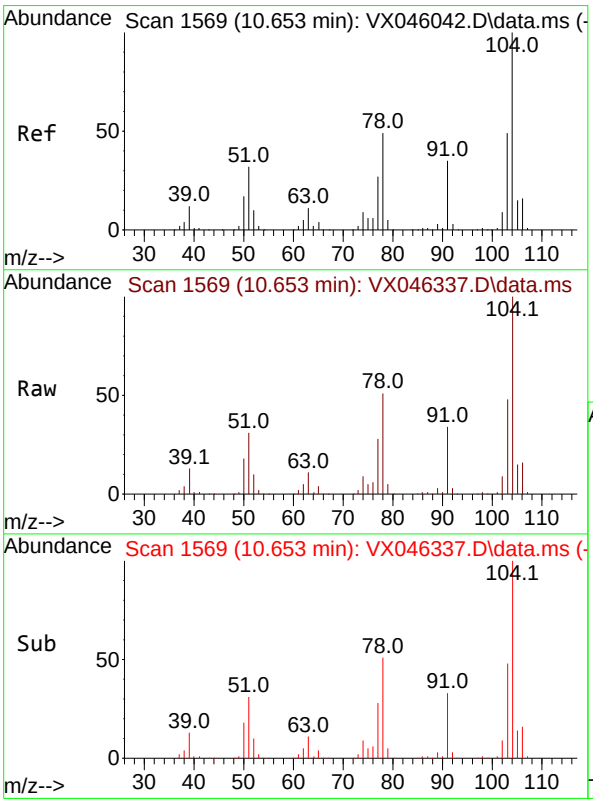
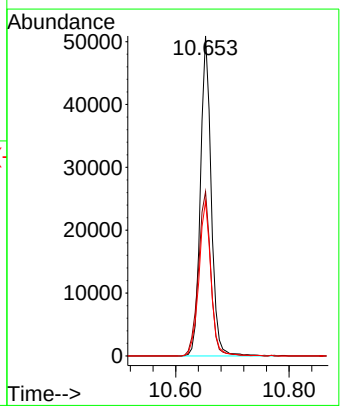
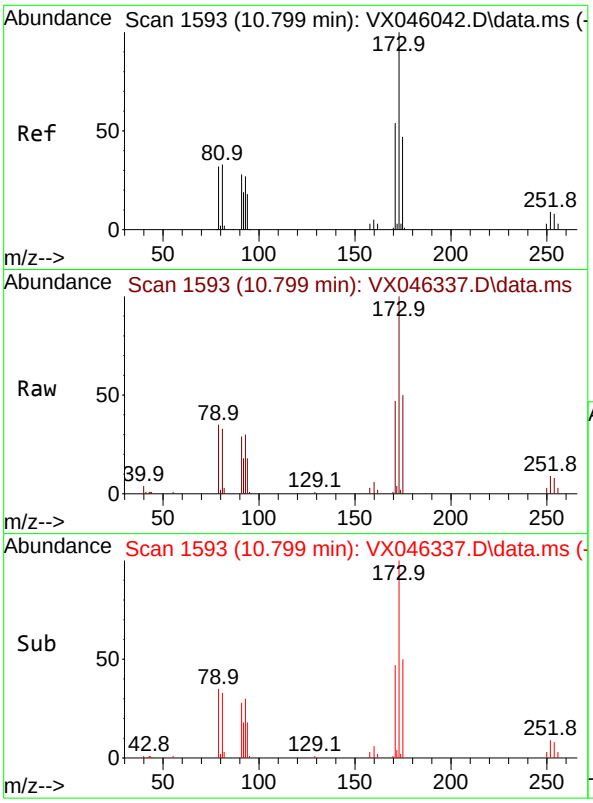


#70
Styrene
Concen: 21.468 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion:104 Resp: 67035

Ion	Ratio	Lower	Upper
104	100		
78	58.9	45.7	68.5
103	53.9	43.7	65.5

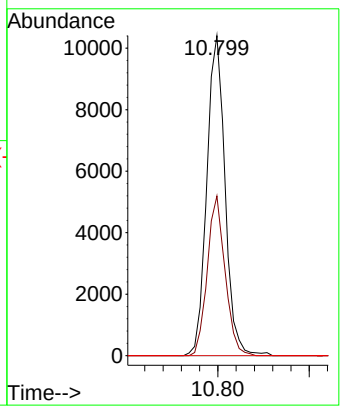




#71
Bromoform
Concen: 18.508 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion:173 Resp: 1439

Ion	Ratio	Lower	Upper
173	100		
175	48.8	23.4	70.0
254	0.0	0.0	0.0



Instrument :
MSVOA_X
ClientSampleId :
VX0523WBSD01

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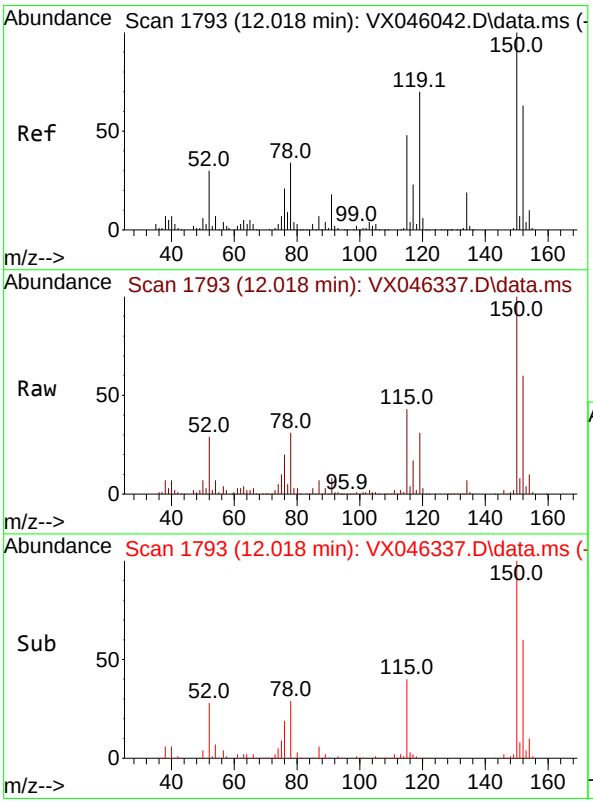
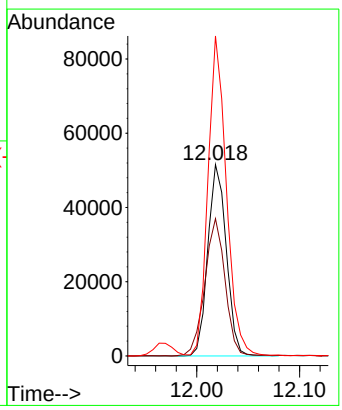
Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025

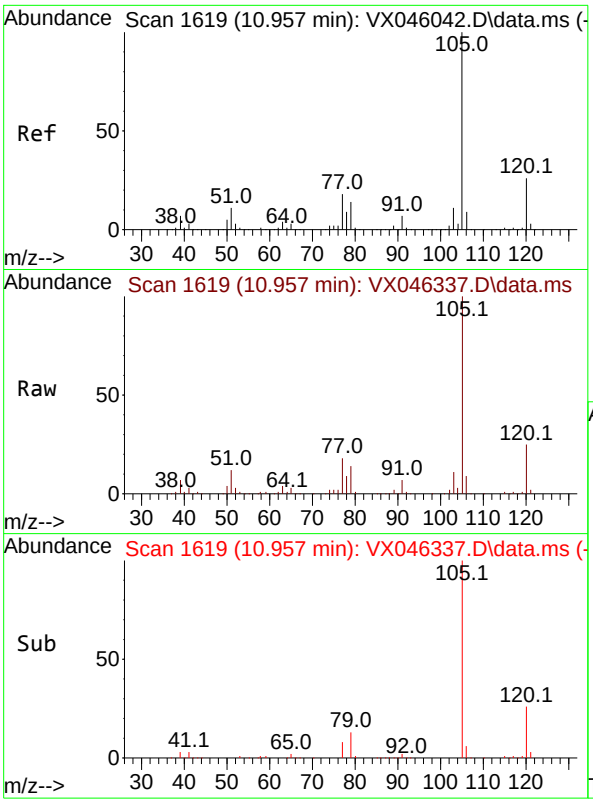


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion:152 Resp: 64515

Ion	Ratio	Lower	Upper
152	100		
115	78.7	46.9	140.7
150	165.9	0.0	351.0





#73
Isopropylbenzene
Concen: 21.506 ug/l
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion:105 Resp: 10801

Ion	Ratio	Lower	Upper
105	100		
120	25.5	12.8	38.4

Instrument :
MSVOA_X
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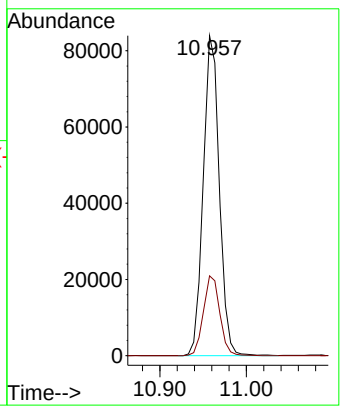
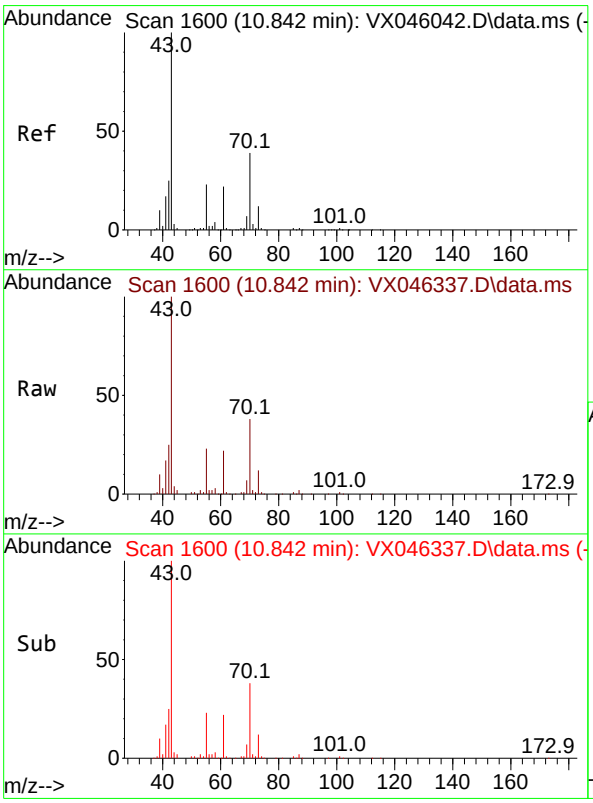
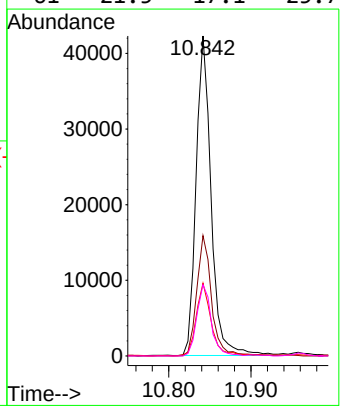


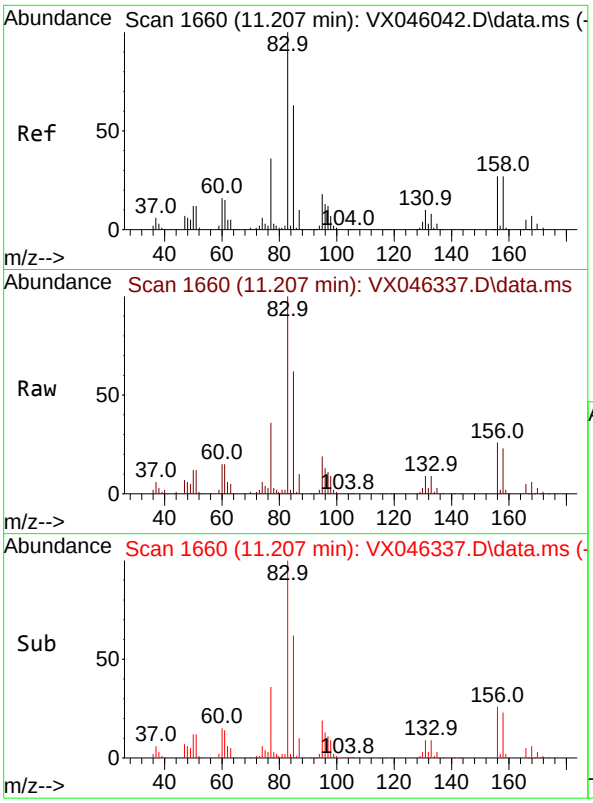


#74
N-amyl acetate
Concen: 21.617 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 43 Resp: 53653

Ion	Ratio	Lower	Upper
43	100		
70	37.3	30.9	46.3
55	23.1	18.7	28.1
61	21.5	17.1	25.7





#75
1,1,2,2-Tetrachloroethane
Concen: 21.221 ug/l
RT: 11.207 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 83 Resp: 3735

Ion	Ratio	Lower	Upper
83	100		
131	10.4	5.0	14.9
85	64.4	31.9	95.7

Instrument :
MSVOA_X
ClientSampleId :
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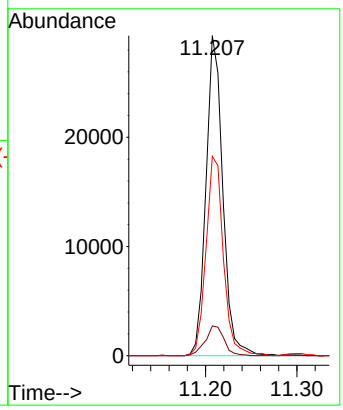
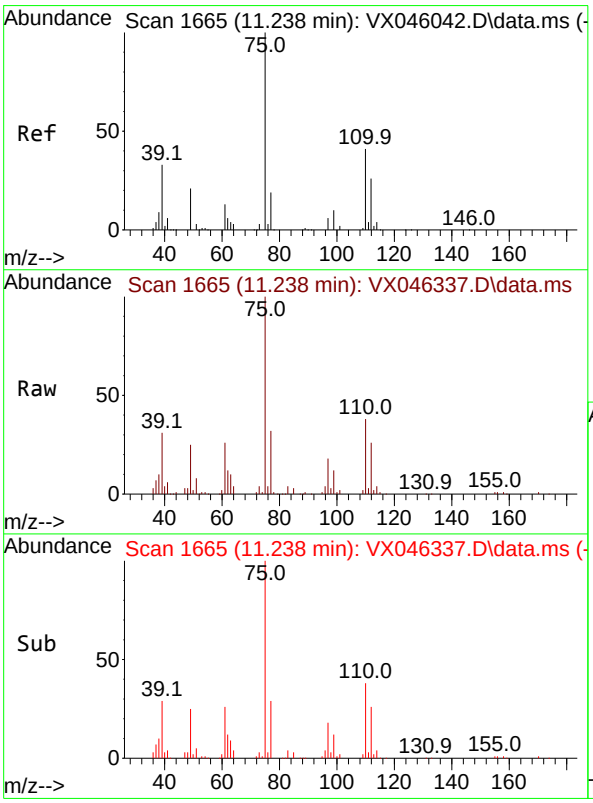
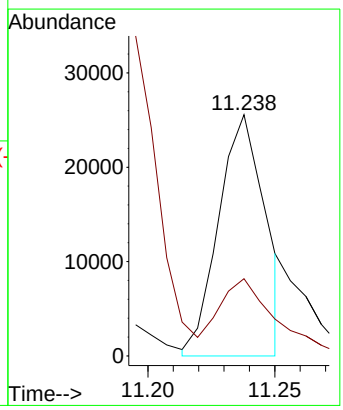


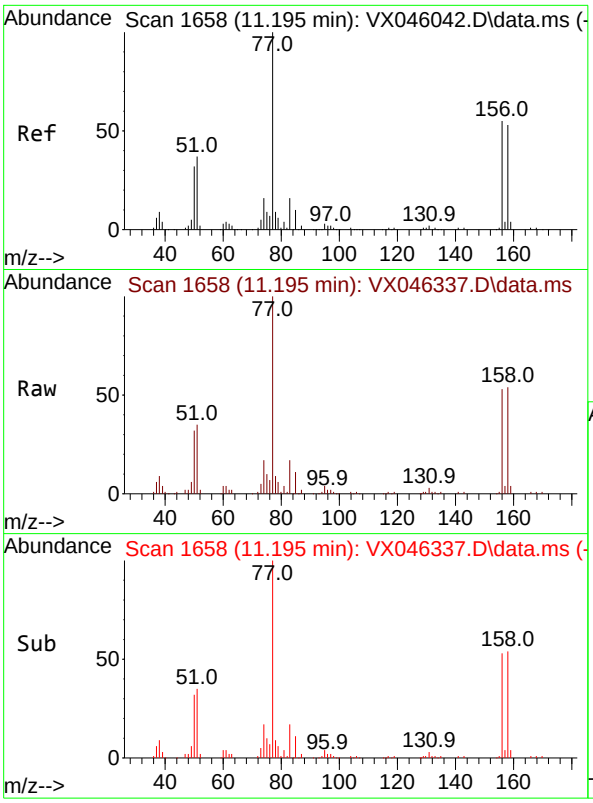


#76
1,2,3-Trichloropropane
Concen: 21.058 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 75 Resp: 32701

Ion	Ratio	Lower	Upper
75	100		
77	39.4	20.5	61.5

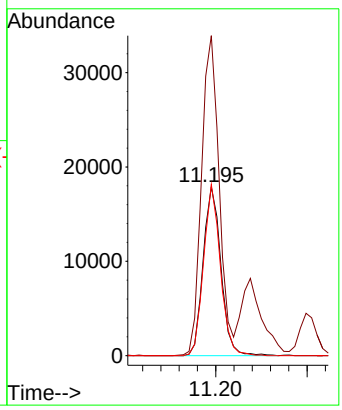




#77
Bromobenzene
Concen: 20.692 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion:156 Resp: 2412

Ion	Ratio	Lower	Upper
156	100		
77	187.9	92.8	278.3
158	95.9	48.8	146.3



Instrument :
MSVOA_X
ClientSampleId :
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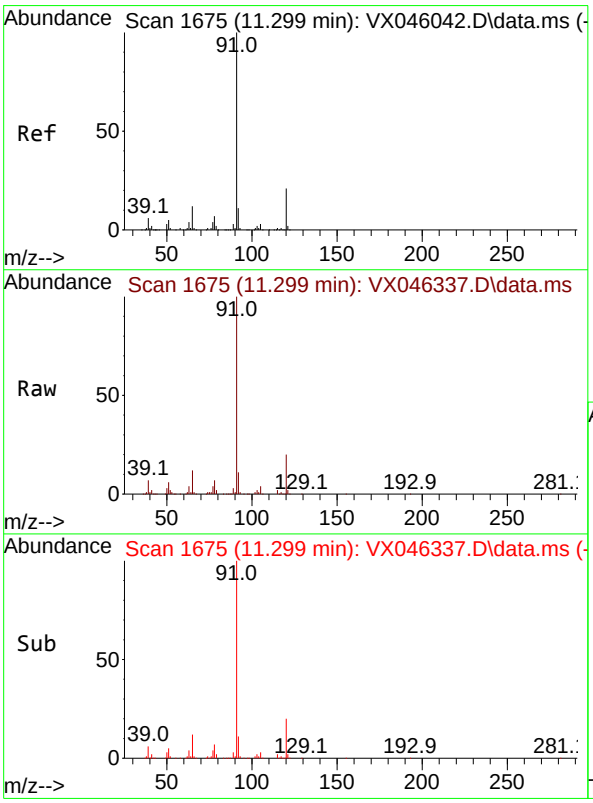
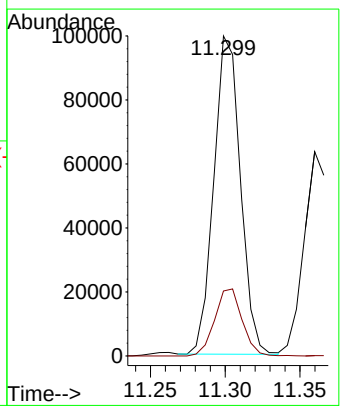
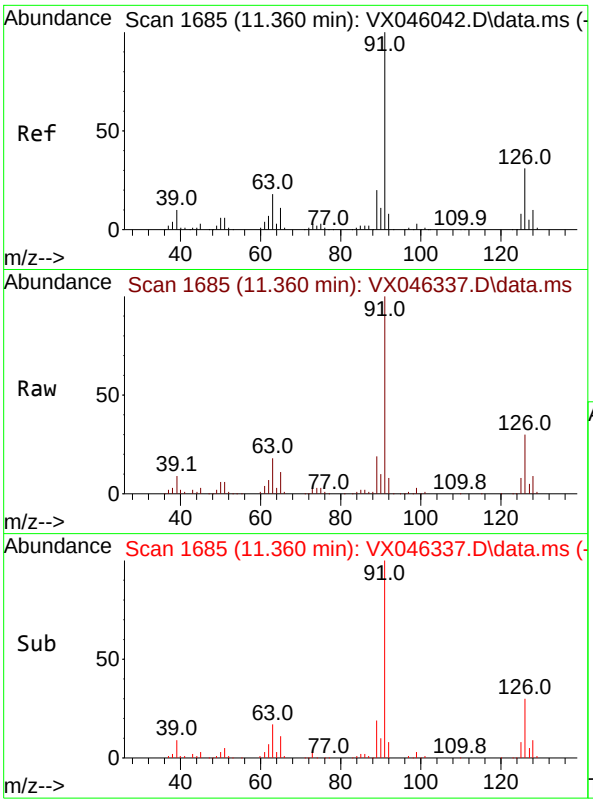


#78
n-propylbenzene
Concen: 21.050 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 91 Resp: 122931

Ion	Ratio	Lower	Upper
91	100		
120	21.8	10.8	32.4





#79
2-Chlorotoluene
Concen: 20.765 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 91 Resp: 7822

Ion	Ratio	Lower	Upper
91	100		
126	31.2	15.6	46.7

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBSD01

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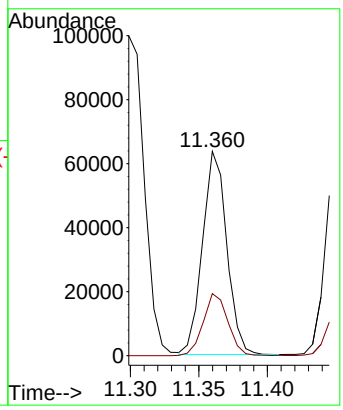
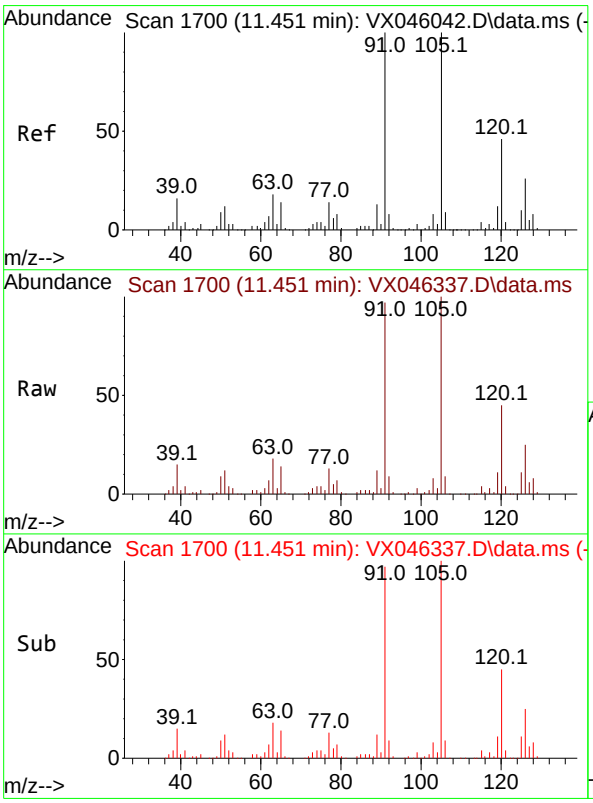
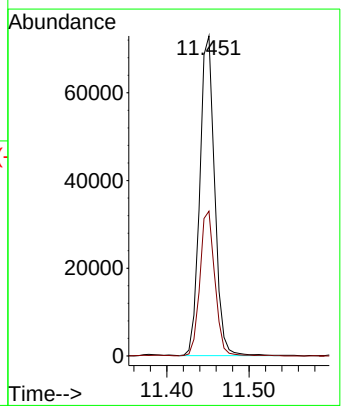


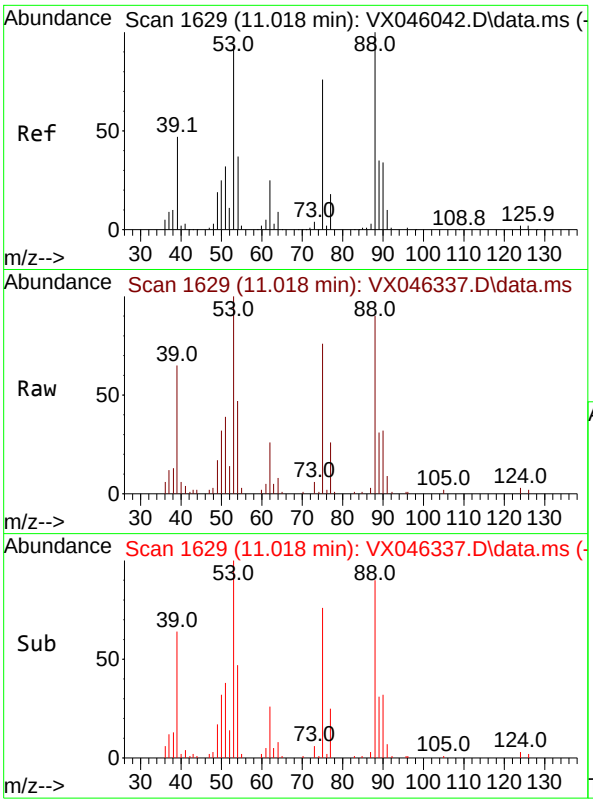


#80
1,3,5-Trimethylbenzene
Concen: 21.833 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion:105 Resp: 91615

Ion	Ratio	Lower	Upper
105	100		
120	45.8	23.1	69.2





#81
trans-1,4-Dichloro-2-butene
Concen: 17.558 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 75 Resp: 837

Ion	Ratio	Lower	Upper
75	100		
53	143.5	100.5	150.7
89	46.4	37.0	55.6

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBSD01

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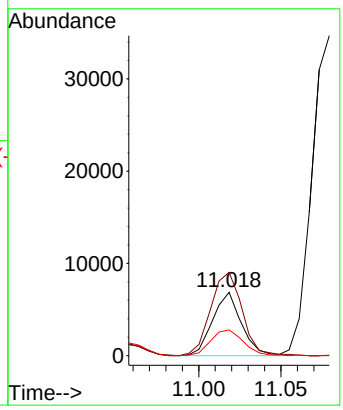
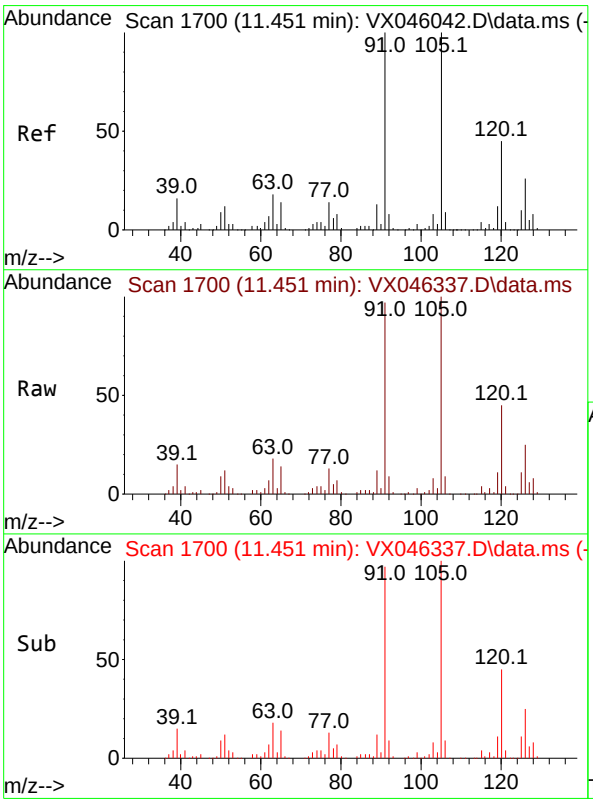
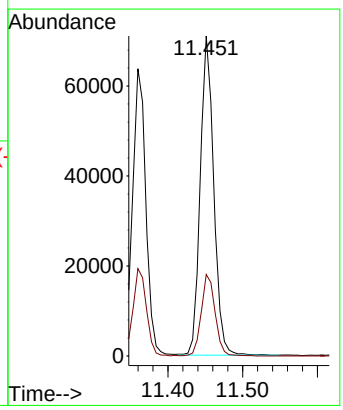


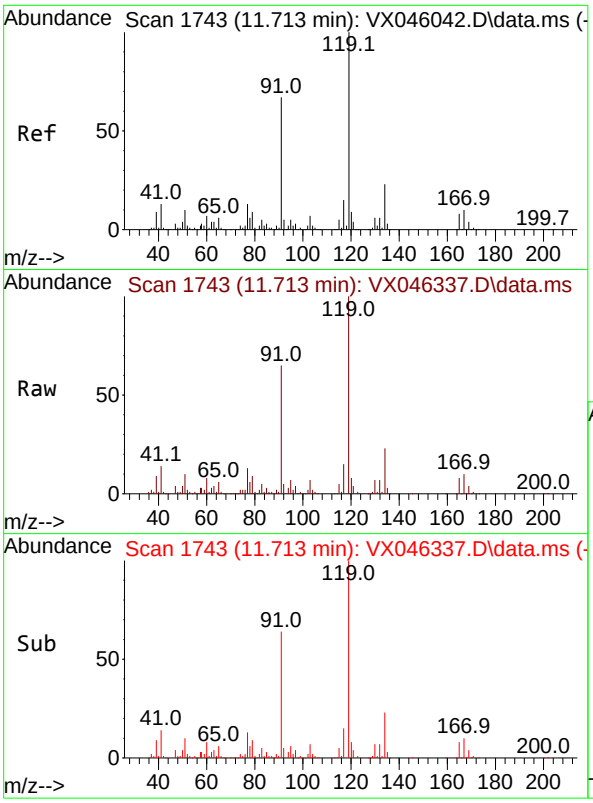


#82
4-Chlorotoluene
Concen: 21.268 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 91 Resp: 88845

Ion	Ratio	Lower	Upper
91	100		
126	26.2	13.3	39.8

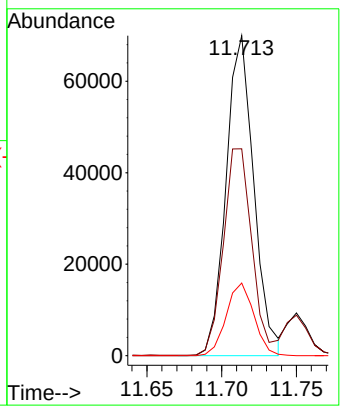




#83
tert-Butylbenzene
Concen: 21.367 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion:119 Resp: 9031

Ion	Ratio	Lower	Upper
119	100		
91	65.7	32.9	98.7
134	22.6	11.4	34.1



Instrument :
MSVOA_X
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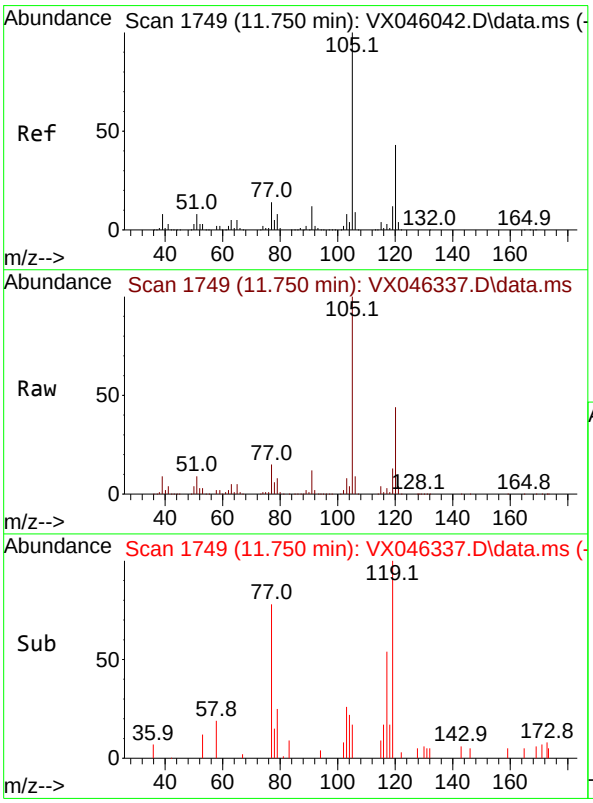
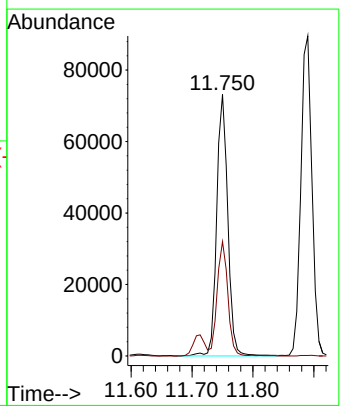
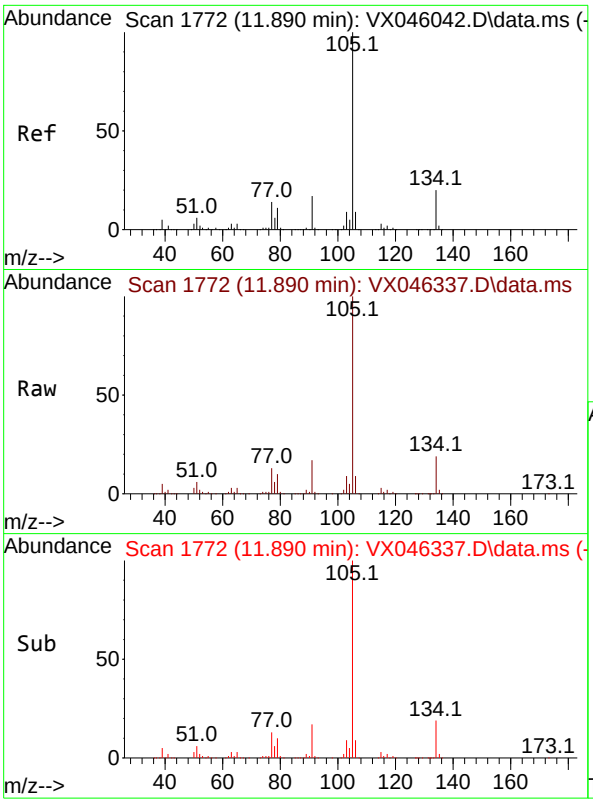


#84
1,2,4-Trimethylbenzene
Concen: 21.726 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion:105 Resp: 92322

Ion	Ratio	Lower	Upper
105	100		
120	42.0	21.2	63.6

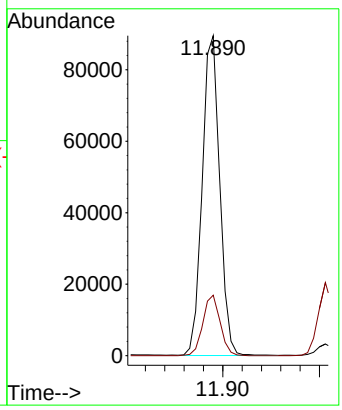




#85
sec-Butylbenzene
Concen: 21.734 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion:105 Resp: 11278

Ion	Ratio	Lower	Upper
105	100		
134	18.7	9.7	29.1



Instrument :
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ClientSampleId :
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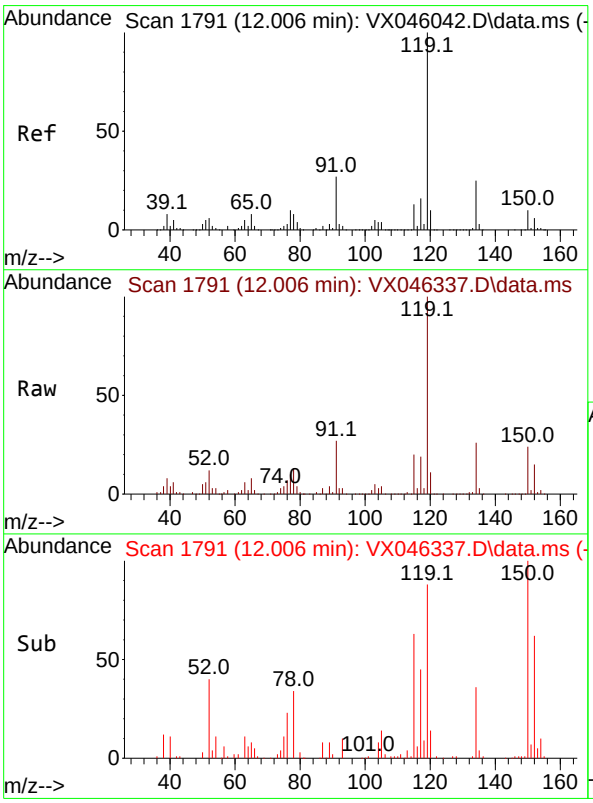
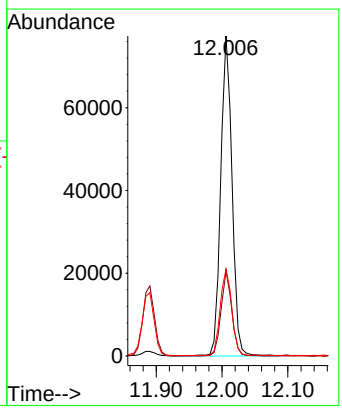
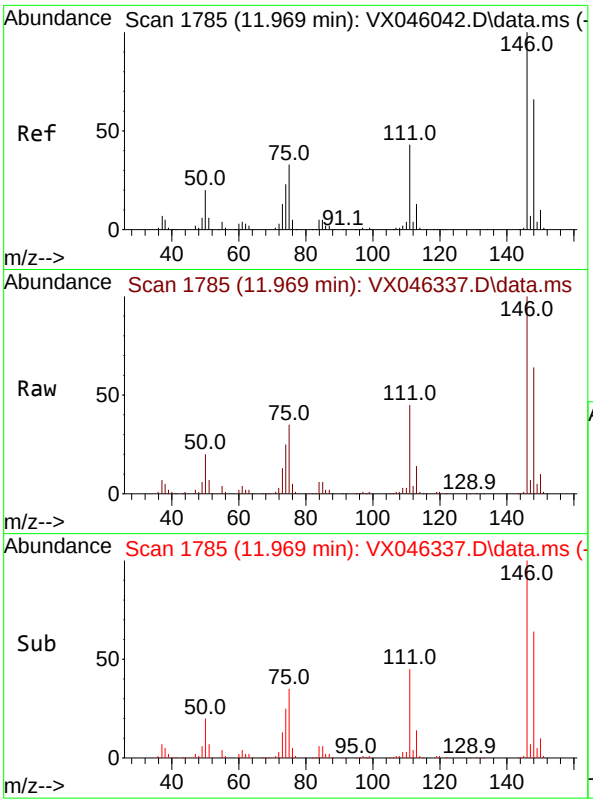


#86
p-Isopropyltoluene
Concen: 21.620 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion:119 Resp: 92615

Ion	Ratio	Lower	Upper
119	100		
134	25.1	12.5	37.5
91	27.4	13.8	41.4

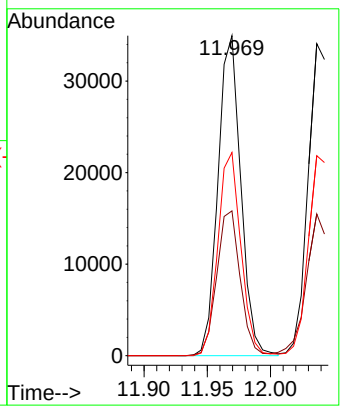




#87
1,3-Dichlorobenzene
Concen: 20.598 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion:146 Resp: 4383

Ion	Ratio	Lower	Upper
146	100		
111	46.7	22.1	66.3
148	63.9	32.1	96.5



Instrument :
MSVOA_X
ClientSampleId :
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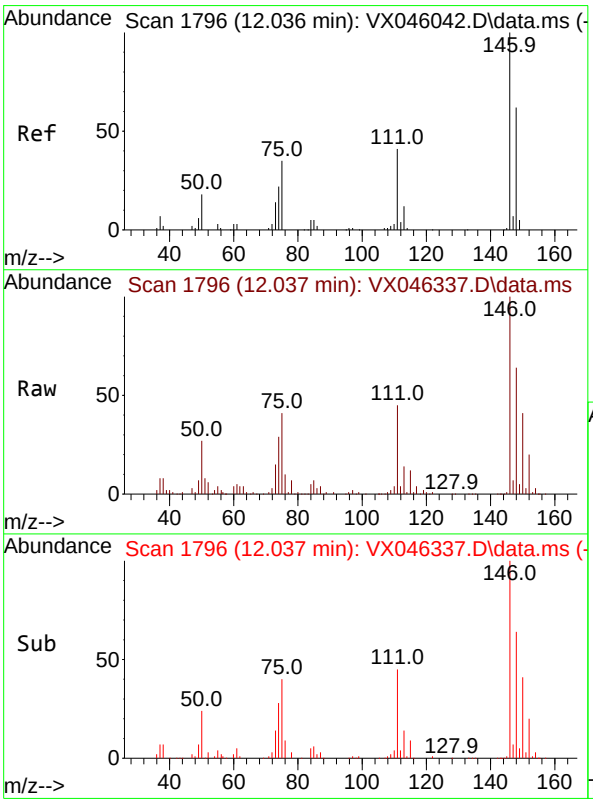
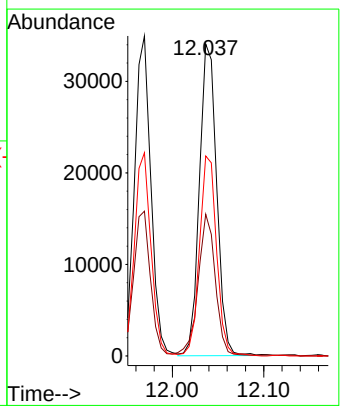
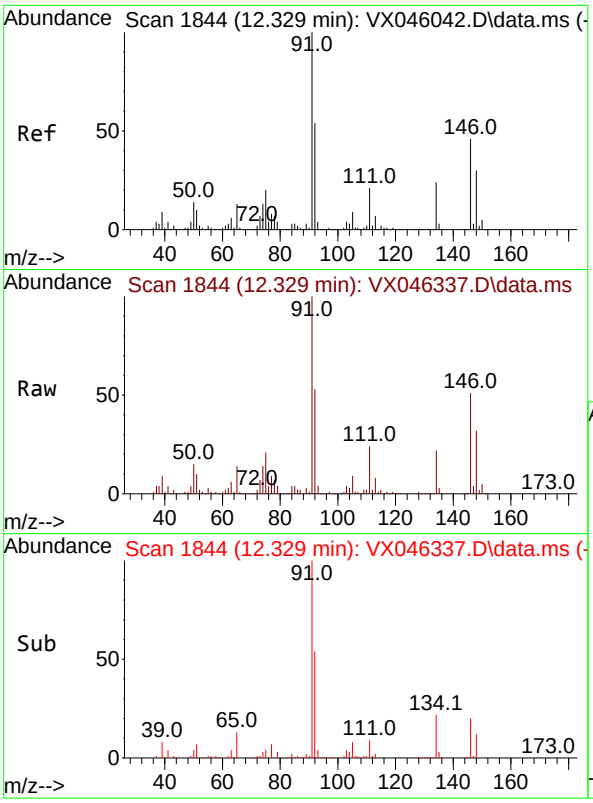


#88
1,4-Dichlorobenzene
Concen: 20.556 ug/l
RT: 12.037 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion:146 Resp: 44676

Ion	Ratio	Lower	Upper
146	100		
111	44.9	21.3	63.9
148	63.6	31.9	95.5

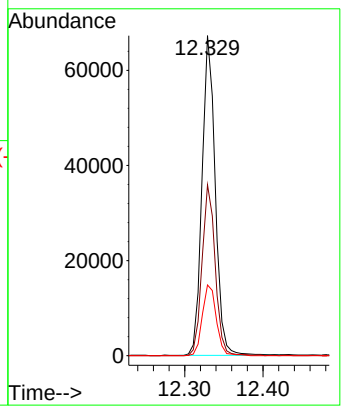




#89
n-Butylbenzene
Concen: 20.975 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 91 Resp: 7881

Ion	Ratio	Lower	Upper
91	100		
92	53.5	26.9	80.7
134	23.4	11.8	35.3



Instrument :
MSVOA_X
ClientSampleId :
VX0523WBSD01

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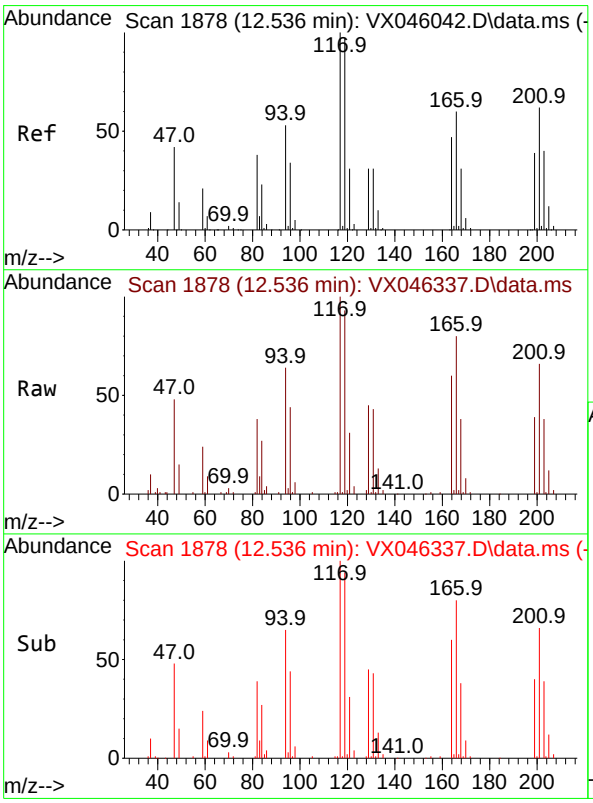
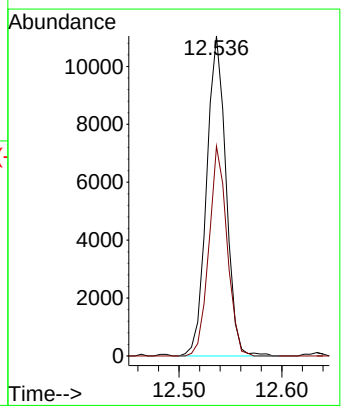
Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025

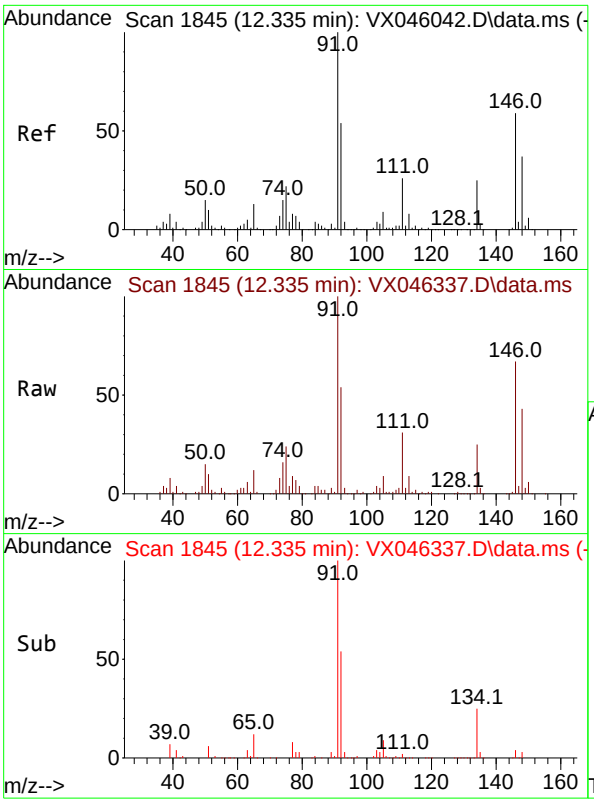


#90
Hexachloroethane
Concen: 19.179 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion:117 Resp: 14474

Ion	Ratio	Lower	Upper
117	100		
201	61.4	31.6	94.7

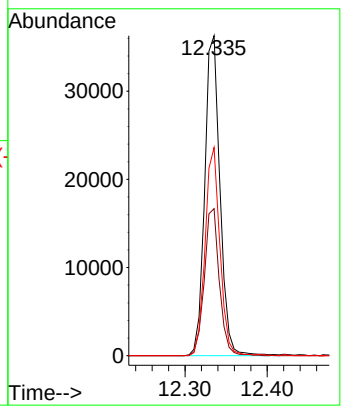




#91
1,2-Dichlorobenzene
Concen: 21.916 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion:146 Resp: 4680

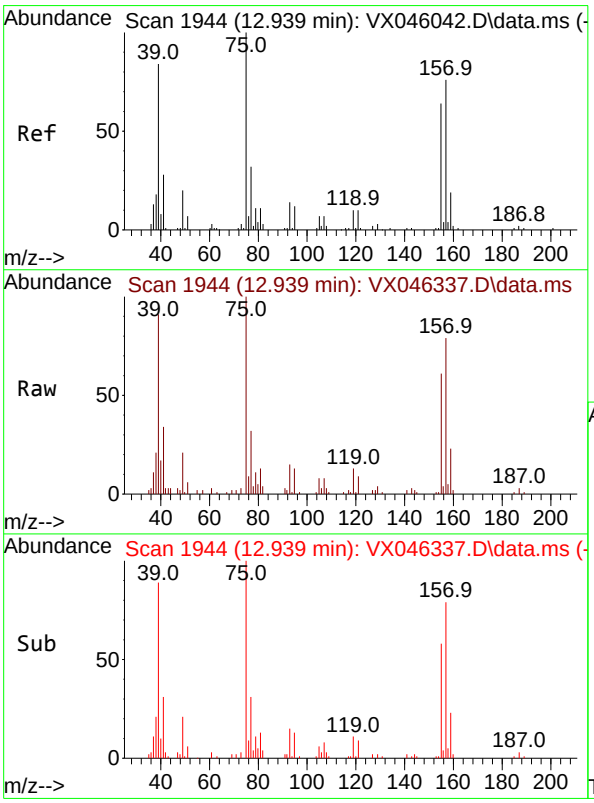
Ion	Ratio	Lower	Upper
146	100		
111	45.4	22.4	67.3
148	63.0	31.6	94.8



Instrument :
MSVOA_X
ClientSampleId :
VX0523WBSD01

Manual Integrations
APPROVED

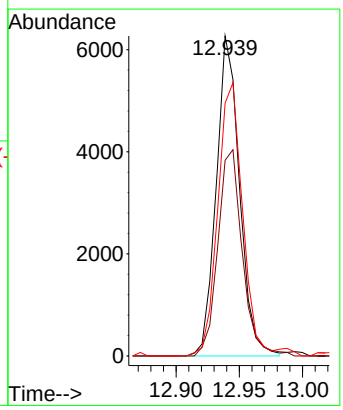
Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025

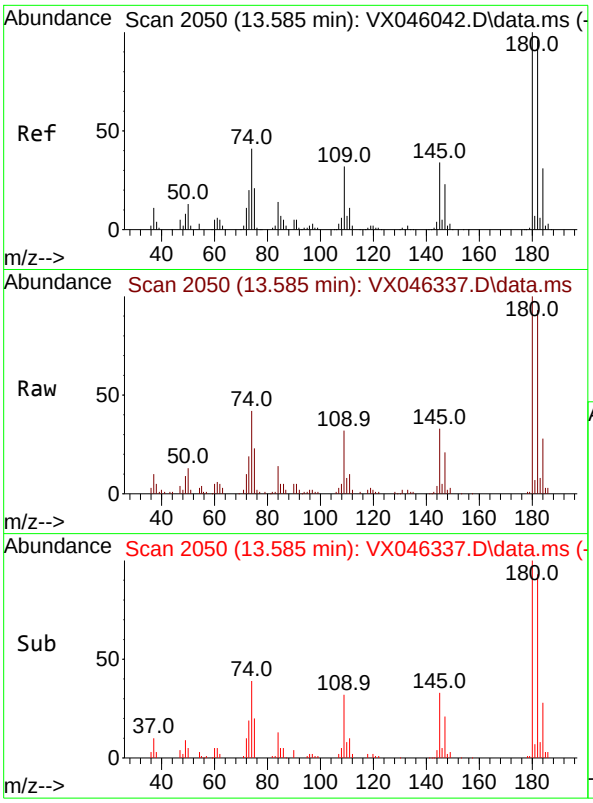


#92
1,2-Dibromo-3-Chloropropane
Concen: 20.524 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 75 Resp: 8003

Ion	Ratio	Lower	Upper
75	100		
155	67.7	34.9	104.8
157	91.9	43.8	131.4

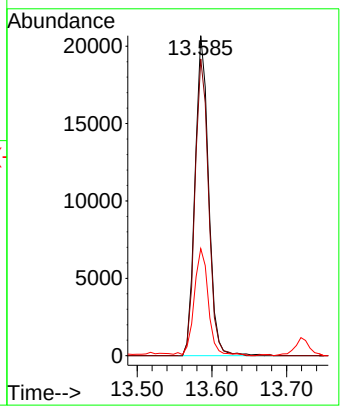




#93
1,2,4-Trichlorobenzene
Concen: 21.225 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion:180 Resp: 2603

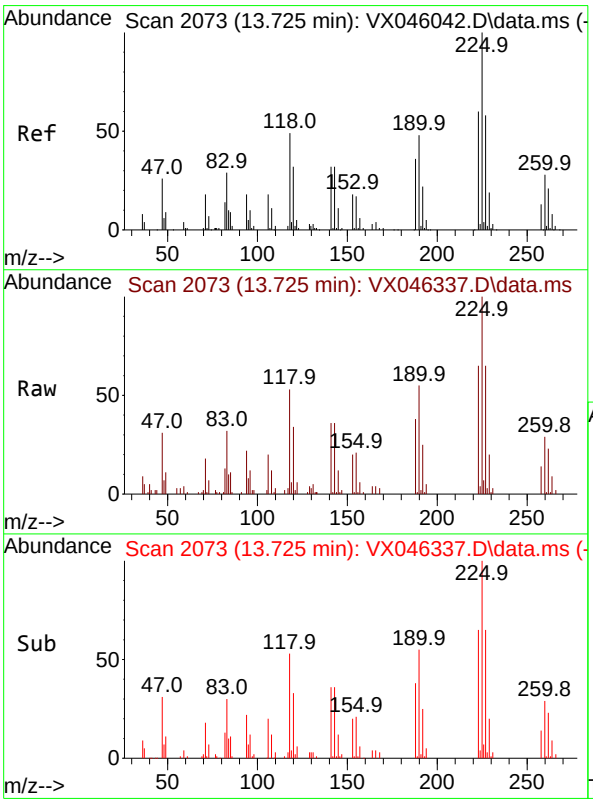
Ion	Ratio	Lower	Upper
180	100		
182	93.1	47.9	143.8
145	35.1	17.1	51.2



Instrument :
MSVOA_X
ClientSampleId :
VX0523WBSD01

Manual Integrations
APPROVED

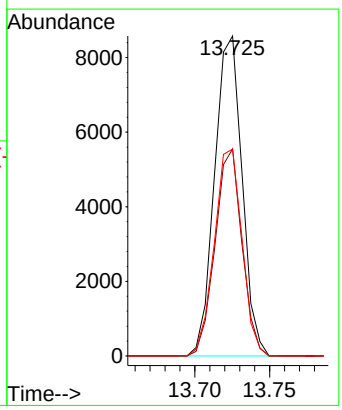
Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025

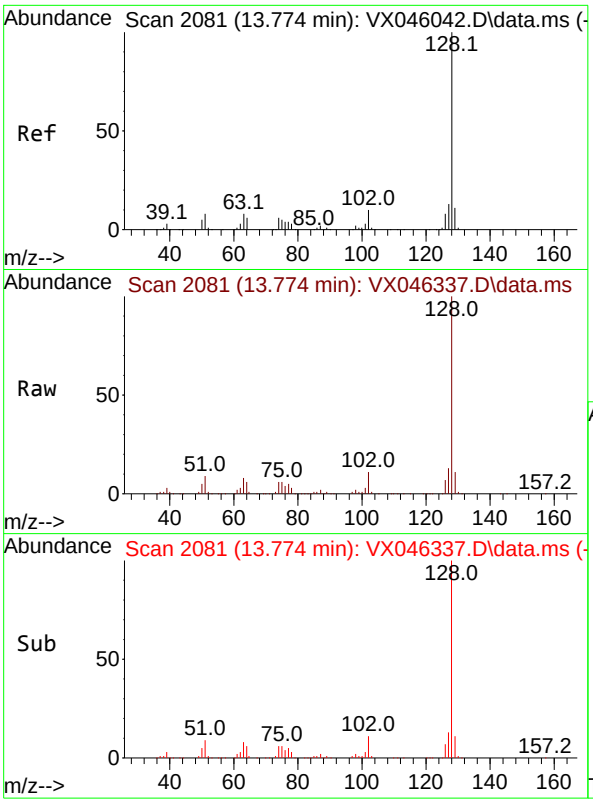


#94
Hexachlorobutadiene
Concen: 20.455 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion:225 Resp: 10958

Ion	Ratio	Lower	Upper
225	100		
223	63.0	30.8	92.4
227	65.3	30.9	92.7

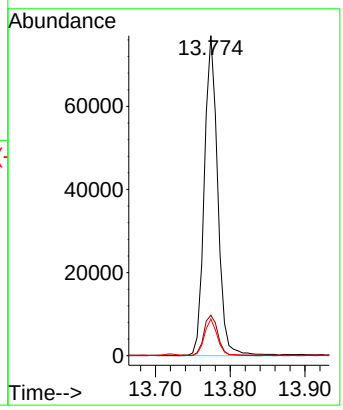




#95
Naphthalene
Concen: 21.296 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion:128 Resp: 9580

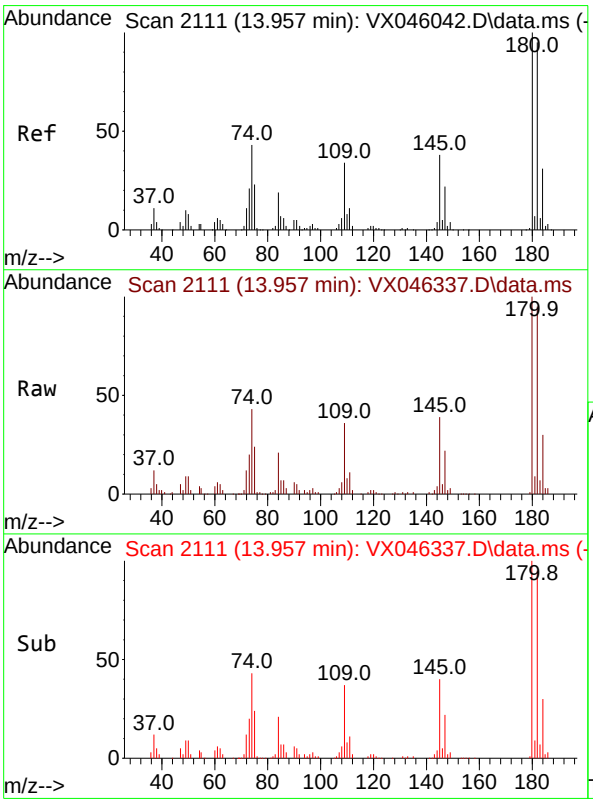
Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.4	15.6
129	10.7	8.6	13.0



Instrument :
MSVOA_X
ClientSampleId :
VX0523WBSD01

Manual Integrations
APPROVED

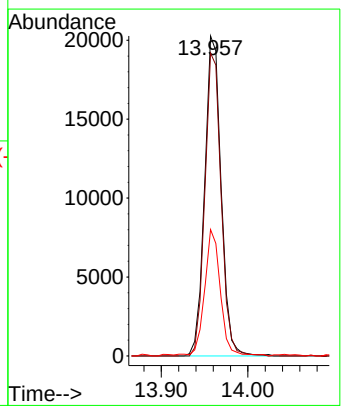
Reviewed By :Semsettin Yesilyurt 05/26/2025
Supervised By :Mahesh Dadoda 05/26/2025



#96
1,2,3-Trichlorobenzene
Concen: 21.171 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion:180 Resp: 26794

Ion	Ratio	Lower	Upper
180	100		
182	93.3	47.8	143.3
145	38.0	18.1	54.3



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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	VY0523SBSD01	SDG No.:	Q2118
Lab Sample ID:	VY0523SBSD01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022410.D	1		05/23/25 16:50	VY052325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
74-87-3	Chloromethane	24.0		1.10	2.50	5.00	ug/Kg
75-01-4	Vinyl Chloride	25.2		0.79	2.50	5.00	ug/Kg
74-83-9	Bromomethane	37.3		1.10	4.00	5.00	ug/Kg
75-00-3	Chloroethane	31.0		1.30	2.50	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	25.4		1.20	4.00	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	21.8		1.10	2.50	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	19.9		1.00	2.50	5.00	ug/Kg
67-64-1	Acetone	120		4.70	20.0	25.0	ug/Kg
75-15-0	Carbon Disulfide	19.3		1.10	4.00	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	20.2		0.73	2.50	5.00	ug/Kg
75-09-2	Methylene Chloride	19.2		3.50	8.00	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	20.0		0.86	2.50	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	19.5		0.80	2.50	5.00	ug/Kg
78-93-3	2-Butanone	100		6.50	20.0	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	19.6		0.97	2.50	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	20.5		0.75	2.50	5.00	ug/Kg
67-66-3	Chloroform	20.1		0.84	4.00	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	19.7		0.93	2.50	5.00	ug/Kg
108-87-2	Methylcyclohexane	20.0		0.91	2.50	5.00	ug/Kg
71-43-2	Benzene	19.4		0.79	2.50	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	19.6		0.79	2.50	5.00	ug/Kg
79-01-6	Trichloroethene	20.4		0.81	2.50	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	19.0		0.91	2.50	5.00	ug/Kg
75-27-4	Bromodichloromethane	19.7		0.78	2.50	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	93.8		3.60	12.5	25.0	ug/Kg
108-88-3	Toluene	18.9		0.78	2.50	5.00	ug/Kg
10061-02-6	t-1,3-Dichloropropene	18.8		0.65	2.50	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	19.0		0.62	2.50	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	20.7		0.92	2.50	5.00	ug/Kg
591-78-6	2-Hexanone	95.3		3.70	12.5	25.0	ug/Kg

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	VY0523SBSD01	SDG No.:	Q2118
Lab Sample ID:	VY0523SBSD01	Matrix:	SOIL
Analytical Method:	8260D	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022410.D	1		05/23/25 16:50	VY052325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
124-48-1	Dibromochloromethane	19.5		0.87	2.50	5.00	ug/Kg
127-18-4	Tetrachloroethene	19.6		1.10	2.50	5.00	ug/Kg
108-90-7	Chlorobenzene	19.5		0.91	2.50	5.00	ug/Kg
100-41-4	Ethyl Benzene	18.8		0.67	2.50	5.00	ug/Kg
179601-23-1	m/p-Xylenes	37.8		1.20	5.00	10.0	ug/Kg
95-47-6	o-Xylene	18.9		0.82	2.50	5.00	ug/Kg
100-42-5	Styrene	18.5		0.71	2.50	5.00	ug/Kg
75-25-2	Bromoform	19.0		0.86	2.50	5.00	ug/Kg
98-82-8	Isopropylbenzene	19.5		0.78	2.50	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	21.2		1.20	2.50	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	18.9		1.70	2.50	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	19.1		1.60	2.50	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	19.1		1.50	2.50	5.00	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	51.6		71 - 136		103%	SPK: 50
1868-53-7	Dibromofluoromethane	51.4		78 - 119		103%	SPK: 50
2037-26-5	Toluene-d8	51.3		85 - 116		103%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.5		79 - 119		95%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	216000	7.713				
540-36-3	1,4-Difluorobenzene	364000	8.622				
3114-55-4	Chlorobenzene-d5	310000	11.42				
3855-82-1	1,4-Dichlorobenzene-d4	144000	13.353				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022410.D
Acq On : 23 May 2025 16:50
Operator : SY/MD
Sample : VY0523SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 23 23:21:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 05/27/2025
Supervised By :Semsettin Yesilyurt 05/27/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	215942	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.622	114	364015	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	310108	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.353	152	143885	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	121751	51.588	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 103.180%			
35) Dibromofluoromethane	7.640	113	111647	51.387	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 102.780%			
50) Toluene-d8	10.109	98	456658	51.320	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 102.640%			
62) 4-Bromofluorobenzene	12.408	95	133958	47.495	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 95.000%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	44615	19.800	ug/l	99
3) Chloromethane	2.068	50	113910	24.032	ug/l	99
4) Vinyl Chloride	2.202	62	133332	25.178	ug/l	98
5) Bromomethane	2.598	94	160681	37.273	ug/l	95
6) Chloroethane	2.733	64	102143	31.004	ug/l	96
7) Trichlorofluoromethane	3.050	101	136307	25.423	ug/l	100
8) Diethyl Ether	3.458	74	26914	20.917	ug/l	91
9) 1,1,2-Trichlorotrifluo...	3.818	101	50721	21.791	ug/l	98
10) Methyl Iodide	4.007	142	50233	18.646	ug/l	97
11) Tert butyl alcohol	4.885	59	19053	105.720	ug/l #	100
12) 1,1-Dichloroethene	3.793	96	45905	19.874	ug/l	96
13) Acrolein	3.665	56	14554	55.240	ug/l	97
14) Allyl chloride	4.385	41	68849	16.999	ug/l	93
15) Acrylonitrile	5.067	53	53397	100.714	ug/l	98
16) Acetone	3.885	43	51609	116.624	ug/l	92
17) Carbon Disulfide	4.110	76	145040	19.256	ug/l	99
18) Methyl Acetate	4.391	43	23571	16.894	ug/l	94
19) Methyl tert-butyl Ether	5.122	73	128547	20.183	ug/l	94
20) Methylene Chloride	4.616	84	55034	19.246	ug/l	97
21) trans-1,2-Dichloroethene	5.116	96	51046	20.021	ug/l	95
22) Diisopropyl ether	6.025	45	154423	18.055	ug/l	95
23) Vinyl Acetate	5.964	43	478913	92.684	ug/l	95
24) 1,1-Dichloroethane	5.921	63	93240	19.513	ug/l	98
25) 2-Butanone	6.909	43	75621	102.161	ug/l	99
26) 2,2-Dichloropropane	6.890	77	82698	19.458	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	60410	20.533	ug/l	95
28) Bromochloromethane	7.250	49	39080	19.174	ug/l	93
29) Tetrahydrofuran	7.274	42	46494	97.632	ug/l	93
30) Chloroform	7.427	83	91951	20.062	ug/l	98
31) Cyclohexane	7.707	56	91262	19.115	ug/l	95
32) 1,1,1-Trichloroethane	7.622	97	82971	19.732	ug/l	100
36) 1,1-Dichloropropene	7.841	75	70261	19.634	ug/l	99
37) Ethyl Acetate	6.994	43	33678	19.559	ug/l	97
38) Carbon Tetrachloride	7.823	117	72463	19.562	ug/l	99
39) Methylcyclohexane	9.116	83	95930	19.953	ug/l	95
40) Benzene	8.085	78	206176	19.434	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022410.D
Acq On : 23 May 2025 16:50
Operator : SY/MD
Sample : VY0523SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 23 23:21:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 05/27/2025
Supervised By :Semsettin Yesilyurt 05/27/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.226	41	20771m	18.186	ug/l		
42) 1,2-Dichloroethane	8.164	62	56227	19.599	ug/l		99
43) Isopropyl Acetate	8.201	43	69023	18.381	ug/l	#	84
44) Trichloroethene	8.866	130	53777	20.387	ug/l		92
45) 1,2-Dichloropropane	9.146	63	48654	19.023	ug/l		99
46) Dibromomethane	9.237	93	27615	20.018	ug/l		97
47) Bromodichloromethane	9.426	83	70365	19.662	ug/l		97
48) Methyl methacrylate	9.225	41	30525	17.382	ug/l		90
49) 1,4-Dioxane	9.244	88	6552	420.419	ug/l		88
51) 4-Methyl-2-Pentanone	9.999	43	172786	93.776	ug/l		96
52) Toluene	10.176	92	127157	18.928	ug/l		98
53) t-1,3-Dichloropropene	10.396	75	65585	18.778	ug/l		98
54) cis-1,3-Dichloropropene	9.859	75	75996	18.992	ug/l		94
55) 1,1,2-Trichloroethane	10.573	97	36548	20.689	ug/l		94
56) Ethyl methacrylate	10.445	69	52121	18.941	ug/l		95
57) 1,3-Dichloropropane	10.719	76	61767	19.679	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.713	63	105296	85.253	ug/l		98
59) 2-Hexanone	10.762	43	117719	95.289	ug/l		96
60) Dibromochloromethane	10.914	129	44658	19.477	ug/l		100
61) 1,2-Dibromoethane	11.018	107	32889	19.976	ug/l		100
64) Tetrachloroethene	10.652	164	56065	19.560	ug/l		95
65) Chlorobenzene	11.444	112	136439	19.502	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.518	131	45297	18.833	ug/l		98
67) Ethyl Benzene	11.524	91	245943	18.770	ug/l		99
68) m/p-Xylenes	11.633	106	186520	37.778	ug/l		97
69) o-Xylene	11.956	106	88111	18.862	ug/l		97
70) Styrene	11.975	104	146038	18.533	ug/l		98
71) Bromoform	12.133	173	24721	19.042	ug/l	#	98
73) Isopropylbenzene	12.255	105	232709	19.522	ug/l		99
74) N-amyl acetate	12.072	43	61518	18.045	ug/l		97
75) 1,1,2,2-Tetrachloroethane	12.511	83	38775	21.151	ug/l		99
76) 1,2,3-Trichloropropane	12.560	75	32382m	22.214	ug/l		
77) Bromobenzene	12.536	156	49824	19.570	ug/l		96
78) n-propylbenzene	12.597	91	279878	19.466	ug/l		100
79) 2-Chlorotoluene	12.682	91	149035	18.862	ug/l		97
80) 1,3,5-Trimethylbenzene	12.737	105	180541	18.763	ug/l		98
81) trans-1,4-Dichloro-2-b...	12.310	75	13733	19.084	ug/l		95
82) 4-Chlorotoluene	12.779	91	150359	18.501	ug/l		97
83) tert-Butylbenzene	12.999	119	163800	19.152	ug/l		99
84) 1,2,4-Trimethylbenzene	13.048	105	180298	18.876	ug/l		97
85) sec-Butylbenzene	13.176	105	250907	19.763	ug/l		99
86) p-Isopropyltoluene	13.292	119	201925	18.911	ug/l		98
87) 1,3-Dichlorobenzene	13.292	146	98161	18.887	ug/l		99
88) 1,4-Dichlorobenzene	13.371	146	95398	19.082	ug/l		98
89) n-Butylbenzene	13.621	91	192901	19.096	ug/l		99
90) Hexachloroethane	13.883	117	40452	18.768	ug/l		95
91) 1,2-Dichlorobenzene	13.657	146	83346	19.092	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	5680	19.214	ug/l		96
93) 1,2,4-Trichlorobenzene	14.925	180	46528	18.451	ug/l		98
94) Hexachlorobutadiene	15.023	225	25477	18.116	ug/l		98
95) Naphthalene	15.145	128	91043	19.025	ug/l		100
96) 1,2,3-Trichlorobenzene	15.328	180	38757	18.117	ug/l		100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022410.D
Acq On : 23 May 2025 16:50
Operator : SY/MD
Sample : VY0523SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 23 23:21:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 05/27/2025
Supervised By :Semsettin Yesilyurt 05/27/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022410.D
Acq On : 23 May 2025 16:50
Operator : SY/MD
Sample : VY0523SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 23 23:21:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Instrument :
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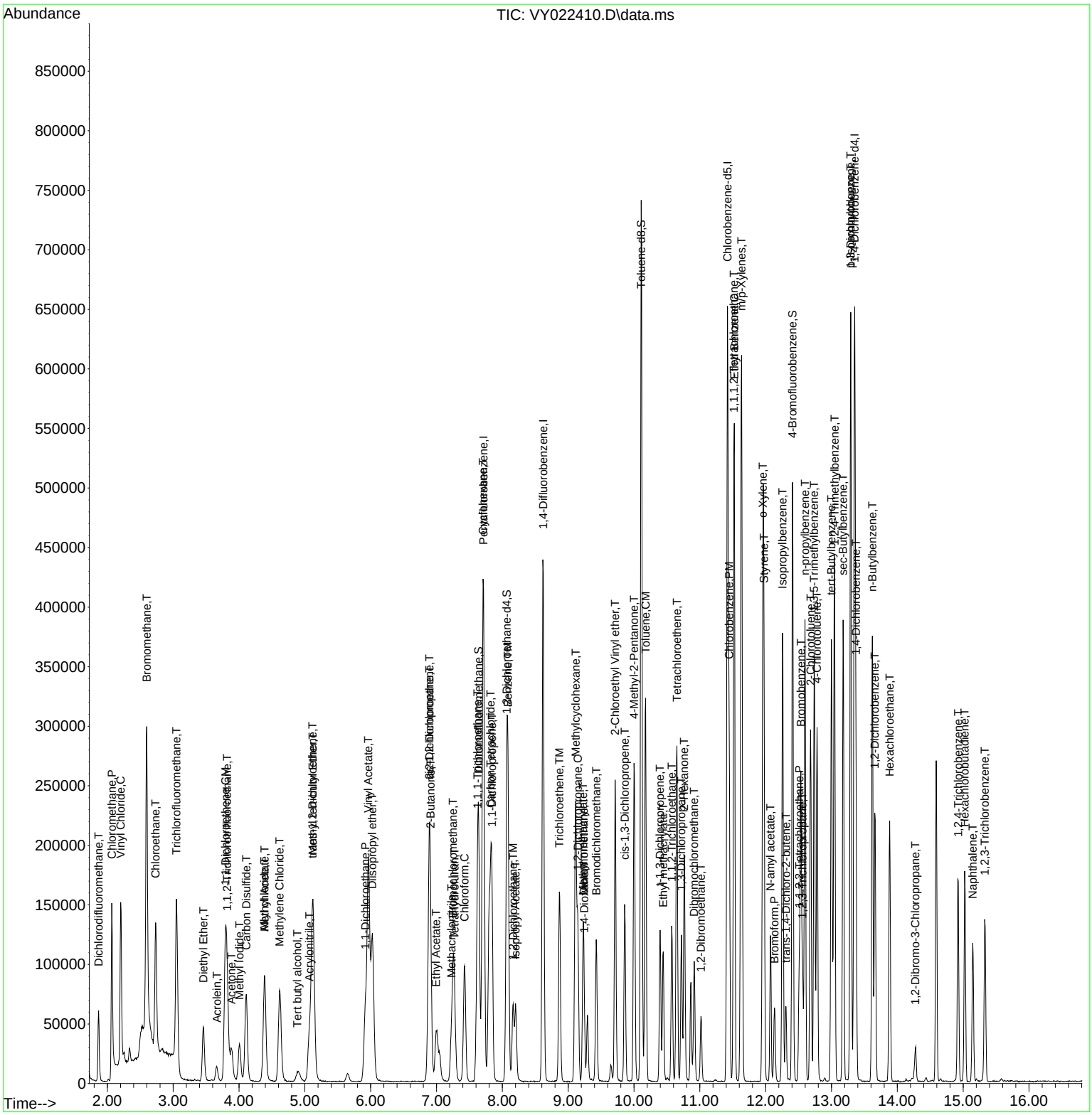
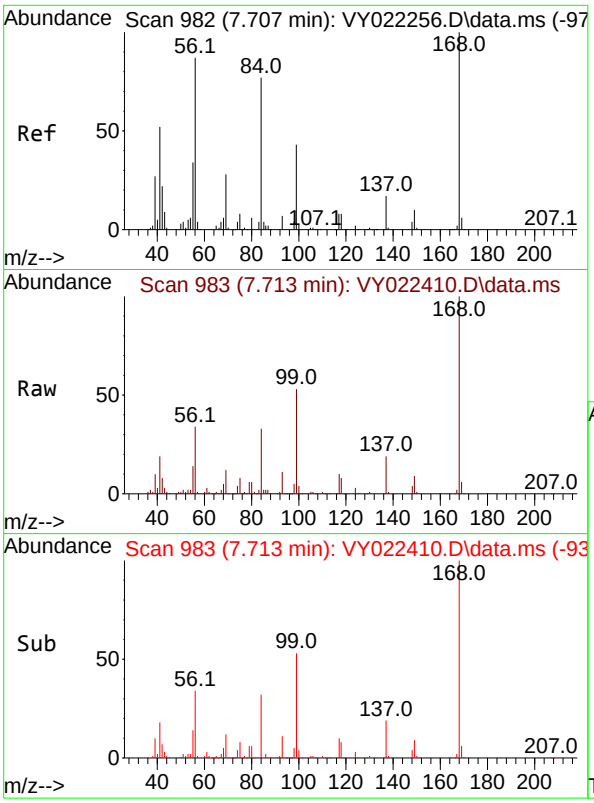
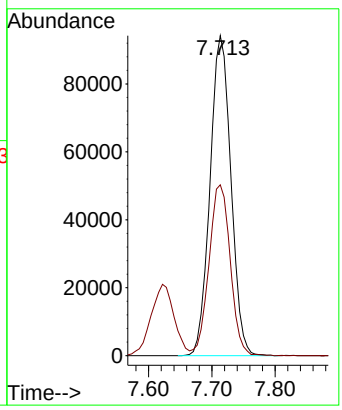




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion:168 Resp: 21594

Ion	Ratio	Lower	Upper
168	100		
99	53.3	44.2	66.4



Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

Manual Integrations
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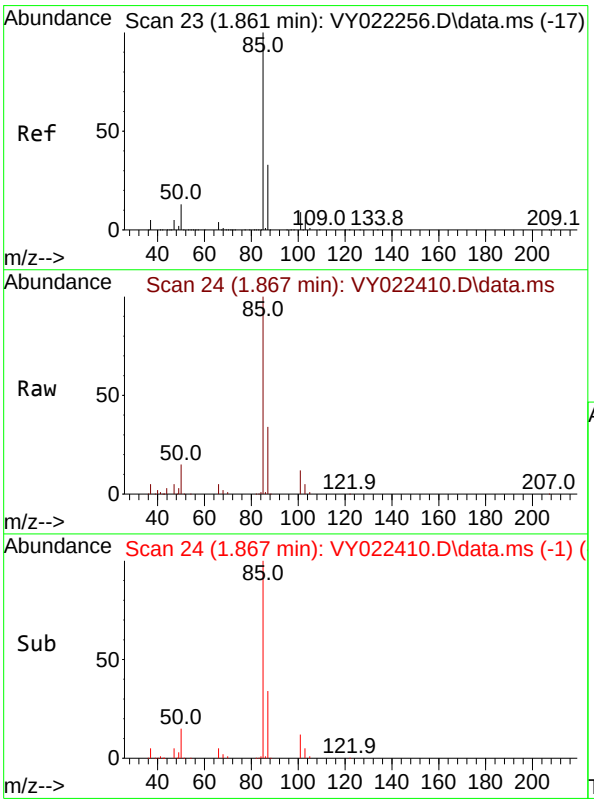
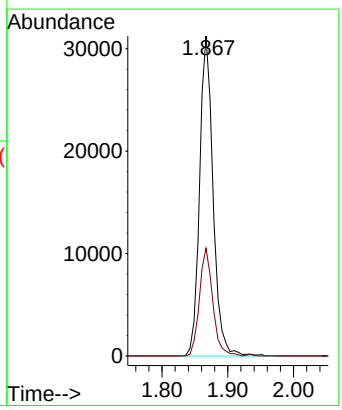
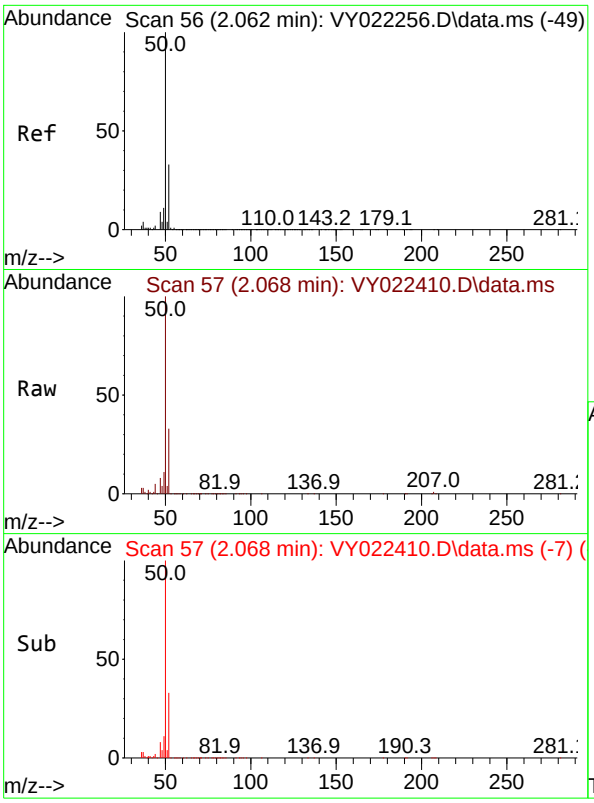


#2
Dichlorodifluoromethane
Concen: 19.800 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 85 Resp: 44615

Ion	Ratio	Lower	Upper
85	100		
87	33.6	16.5	49.5

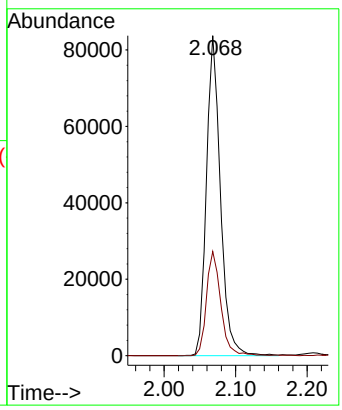




#3
Chloromethane
Concen: 24.032 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 50 Resp: 11391

Ion	Ratio	Lower	Upper
50	100		
52	32.5	26.5	39.7



Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

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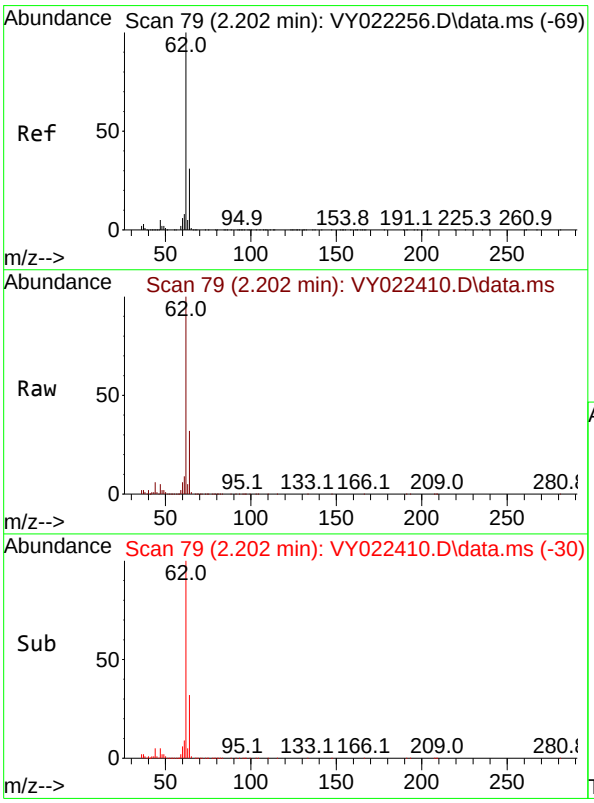
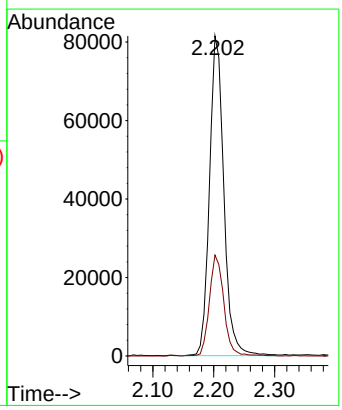
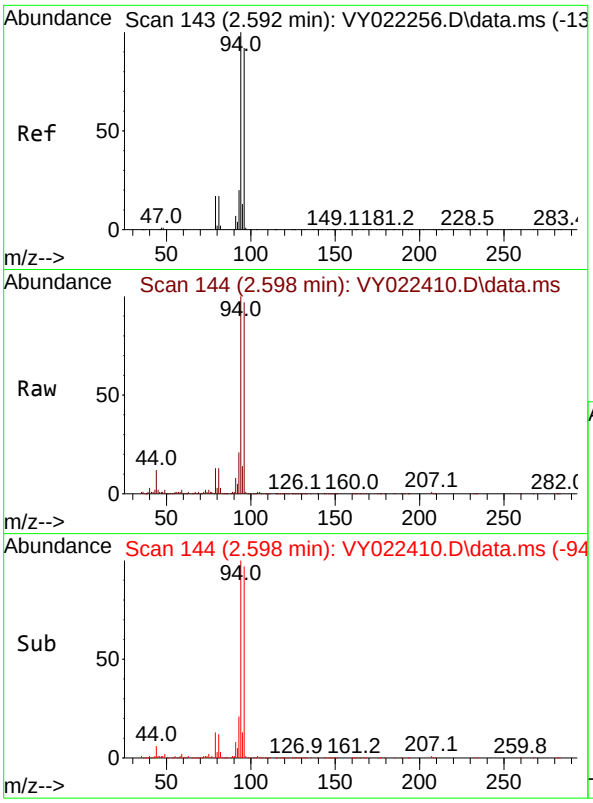


#4
Vinyl Chloride
Concen: 25.178 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.000 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 62 Resp: 133332

Ion	Ratio	Lower	Upper
62	100		
64	31.5	24.5	36.7

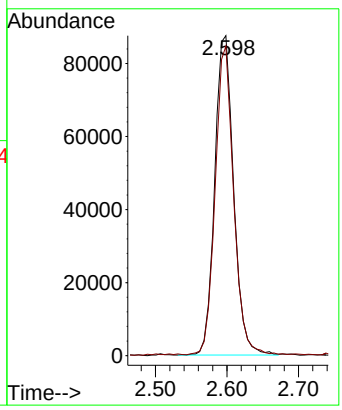




#5
Bromomethane
Concen: 37.273 ug/l
RT: 2.598 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 94 Resp: 16068

Ion	Ratio	Lower	Upper
94	100		
96	96.4	73.4	110.0



Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

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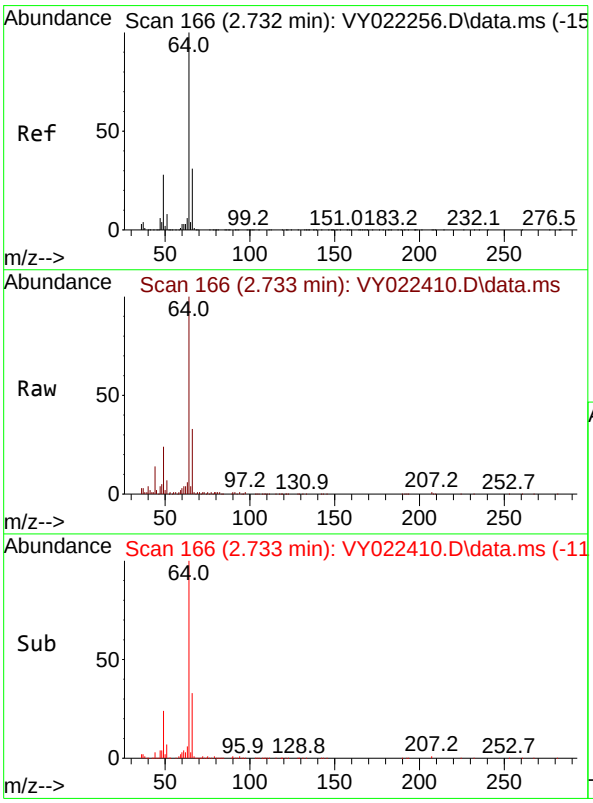
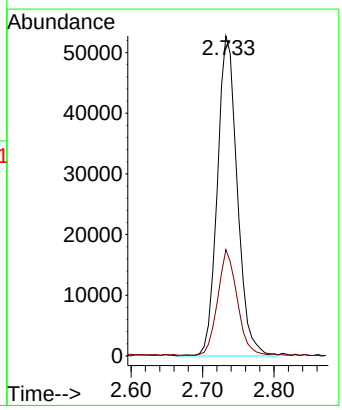
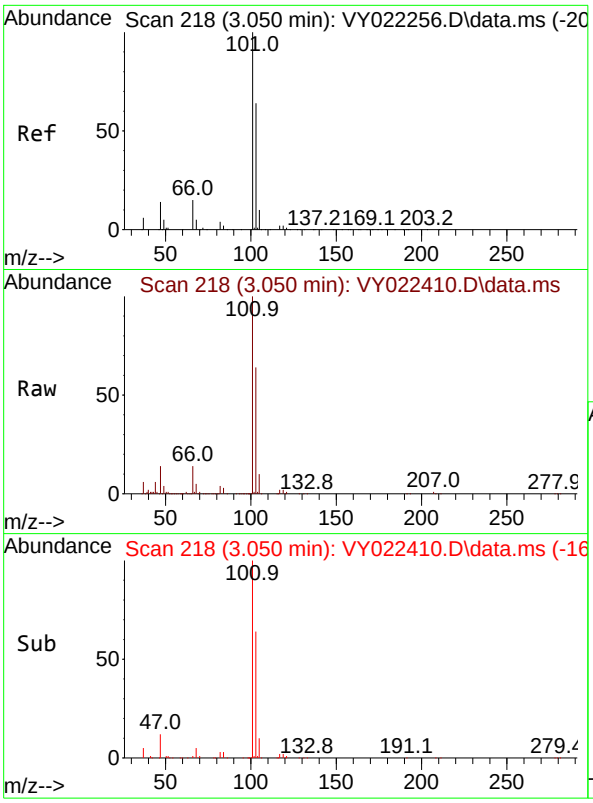


#6
Chloroethane
Concen: 31.004 ug/l
RT: 2.733 min Scan# 166
Delta R.T. 0.000 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 64 Resp: 102143

Ion	Ratio	Lower	Upper
64	100		
66	33.0	24.8	37.2

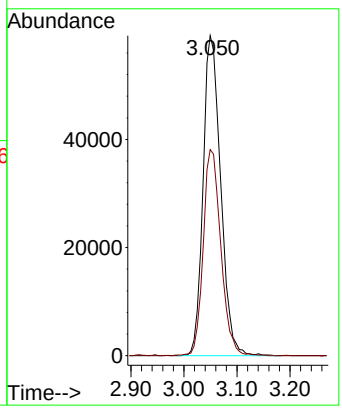




#7
Trichlorofluoromethane
Concen: 25.423 ug/l
RT: 3.050 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion:101 Resp: 13630

Ion	Ratio	Lower	Upper
101	100		
103	64.4	51.7	77.5



Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

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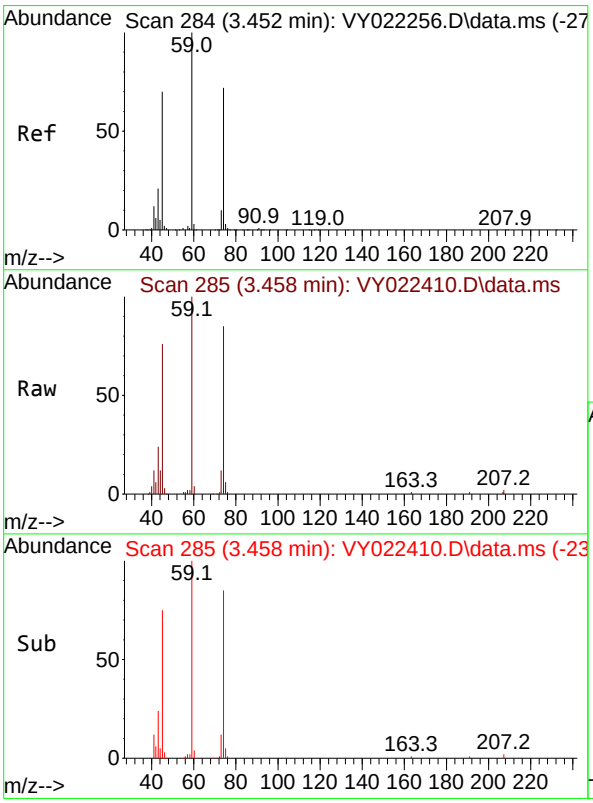
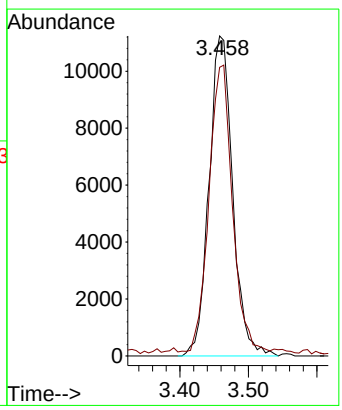
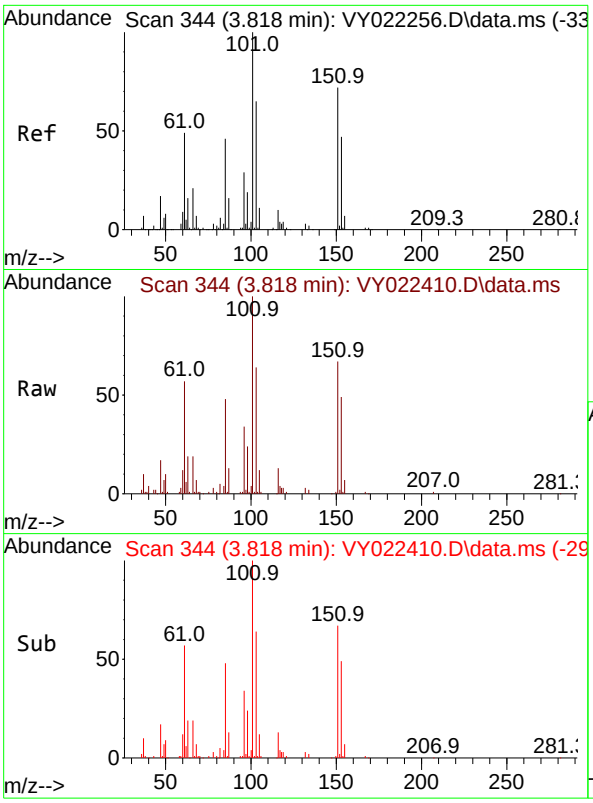


#8
Diethyl Ether
Concen: 20.917 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 74 Resp: 26914

Ion	Ratio	Lower	Upper
74	100		
45	88.0	48.6	145.8





#9
1,1,2-Trichlorotrifluoroethane
Concen: 21.791 ug/l
RT: 3.818 min Scan# 34
Delta R.T. 0.000 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion:101 Resp: 5072

Ion	Ratio	Lower	Upper
101	100		
85	47.6	38.6	58.0
151	72.5	59.7	89.5

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

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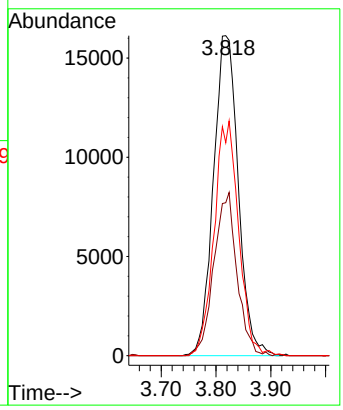
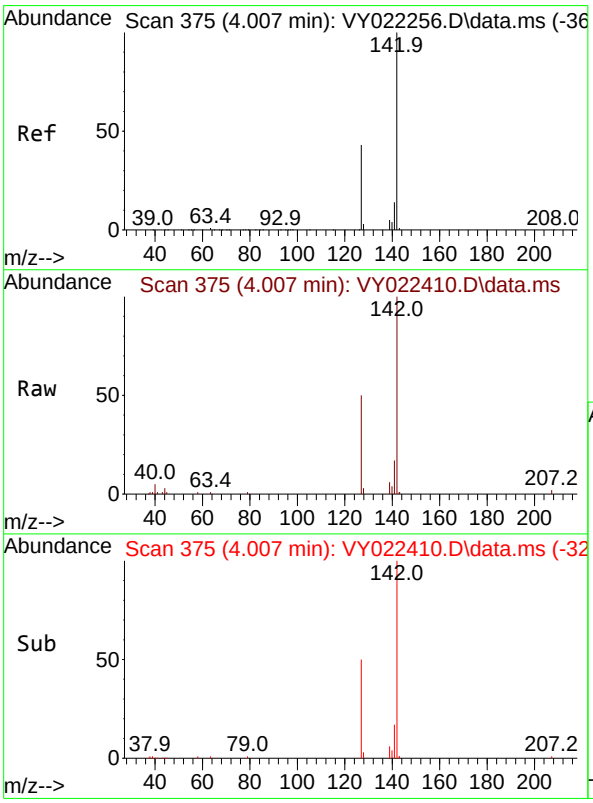
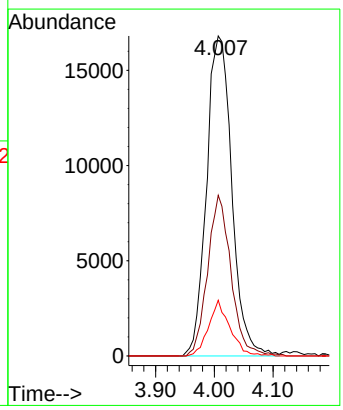


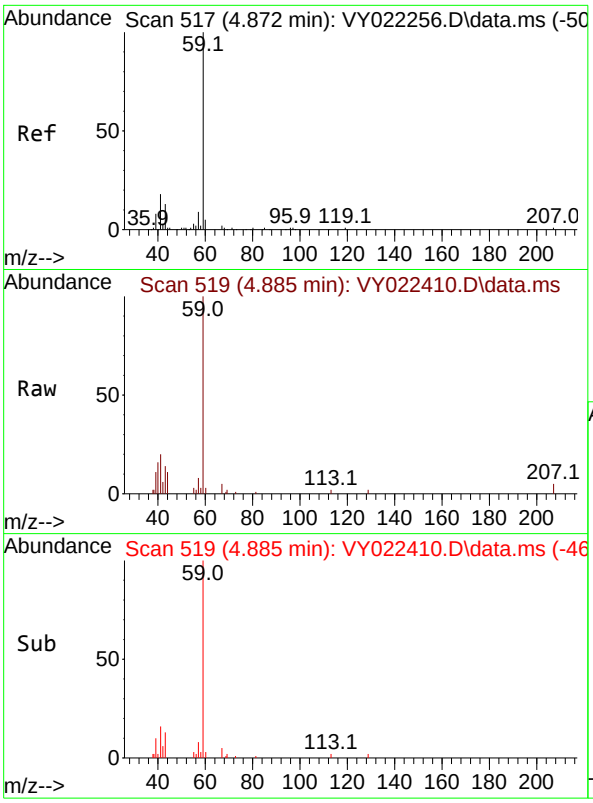


#10
Methyl Iodide
Concen: 18.646 ug/l
RT: 4.007 min Scan# 375
Delta R.T. 0.000 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion:142 Resp: 50233

Ion	Ratio	Lower	Upper
142	100		
127	46.5	35.7	53.5
141	14.8	11.1	16.7

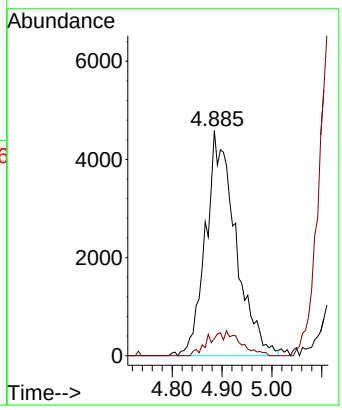




#11
Tert butyl alcohol
Concen: 105.720 ug/l
RT: 4.885 min Scan# 5
Delta R.T. 0.012 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 59 Resp: 1905

Ion	Ratio	Lower	Upper
59	100		
57	5.6	0.0	0.0



Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

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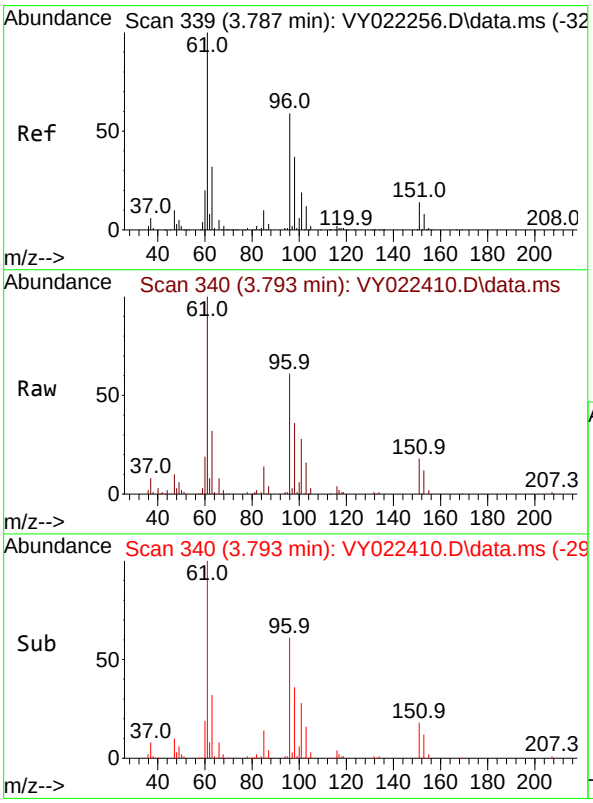
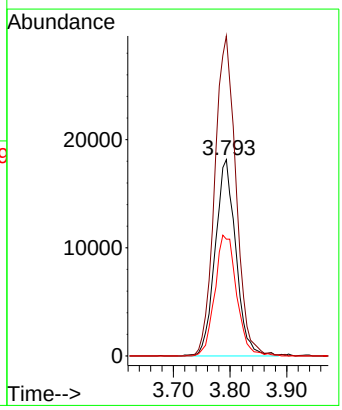
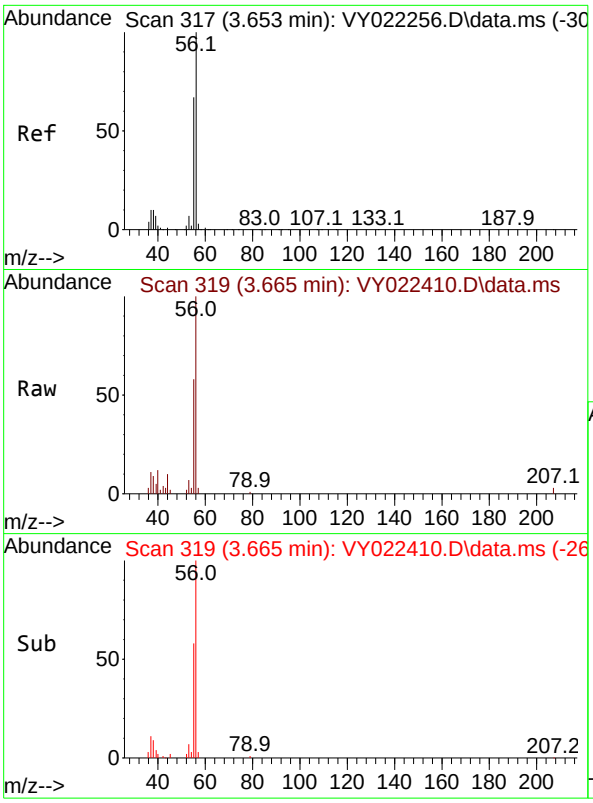


#12
1,1-Dichloroethene
Concen: 19.874 ug/l
RT: 3.793 min Scan# 340
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 96 Resp: 45905

Ion	Ratio	Lower	Upper
96	100		
61	163.0	134.9	202.3
98	59.5	49.9	74.9

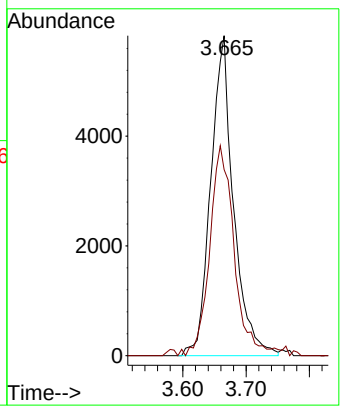




#13
Acrolein
Concen: 55.240 ug/l
RT: 3.665 min Scan# 3
Delta R.T. 0.012 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 56 Resp: 1455

Ion	Ratio	Lower	Upper
56	100		
55	71.8	55.6	83.4



Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

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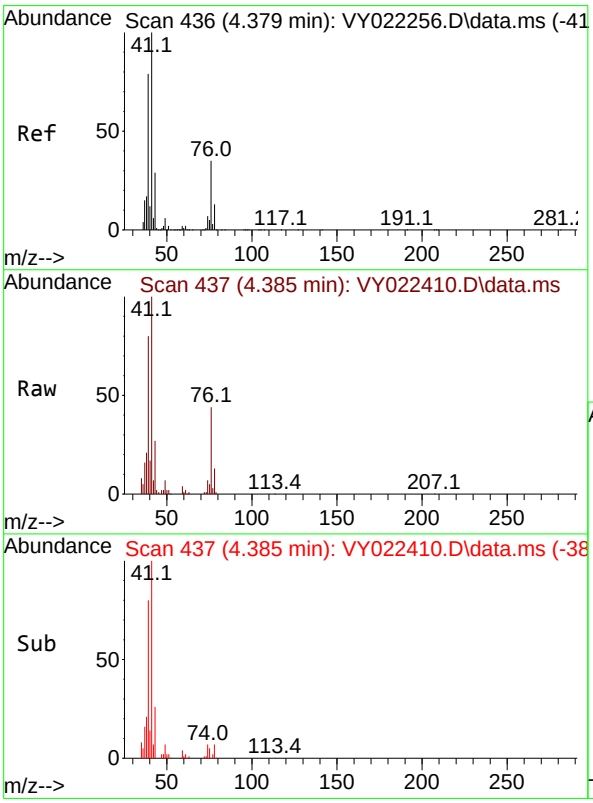
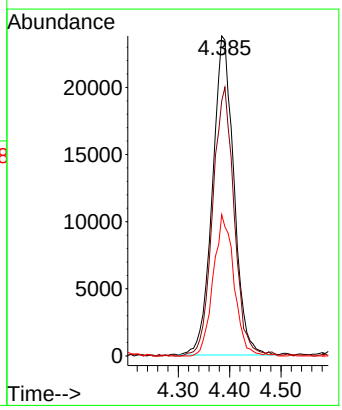
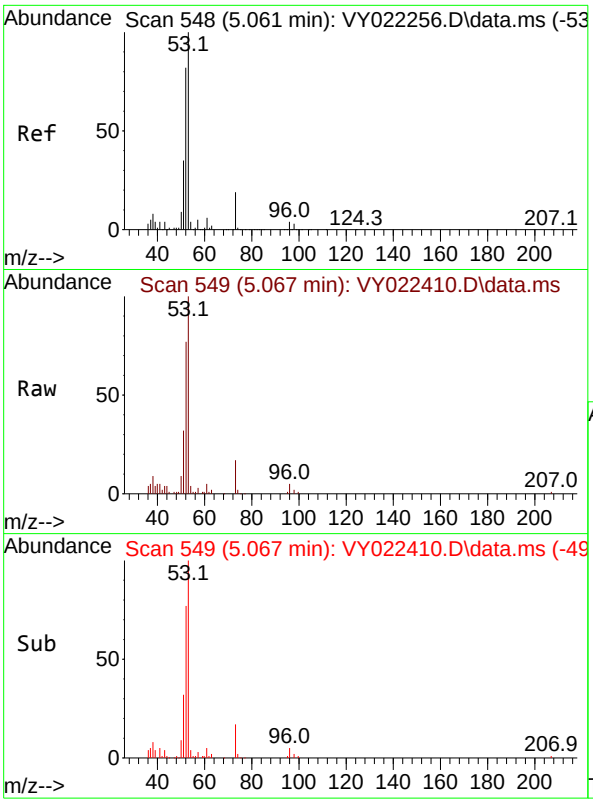


#14
Allyl chloride
Concen: 16.999 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 41 Resp: 68849

Ion	Ratio	Lower	Upper
41	100		
39	84.0	63.4	95.0
76	42.9	29.5	44.3





#15
Acrylonitrile
Concen: 100.714 ug/l
RT: 5.067 min Scan# 54
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 53 Resp: 5339

Ion	Ratio	Lower	Upper
53	100		
52	81.1	66.1	99.1
51	39.2	30.0	45.0

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

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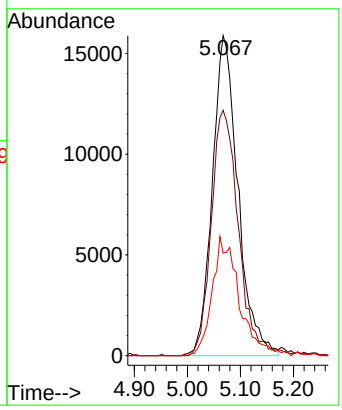
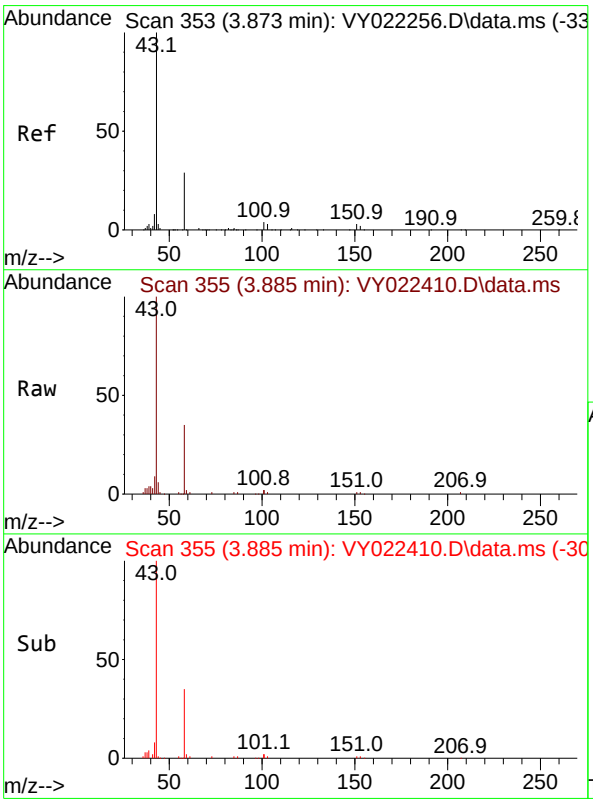
Reviewed By :Mahesh Dadoda 05/27/2025
Supervised By :Semsettin Yesilyurt 05/27/2025

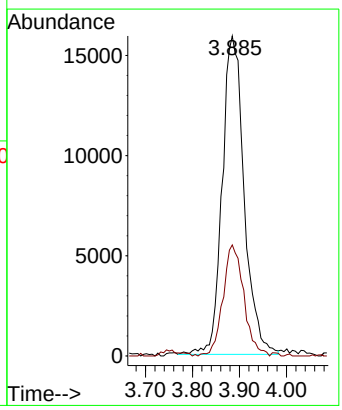


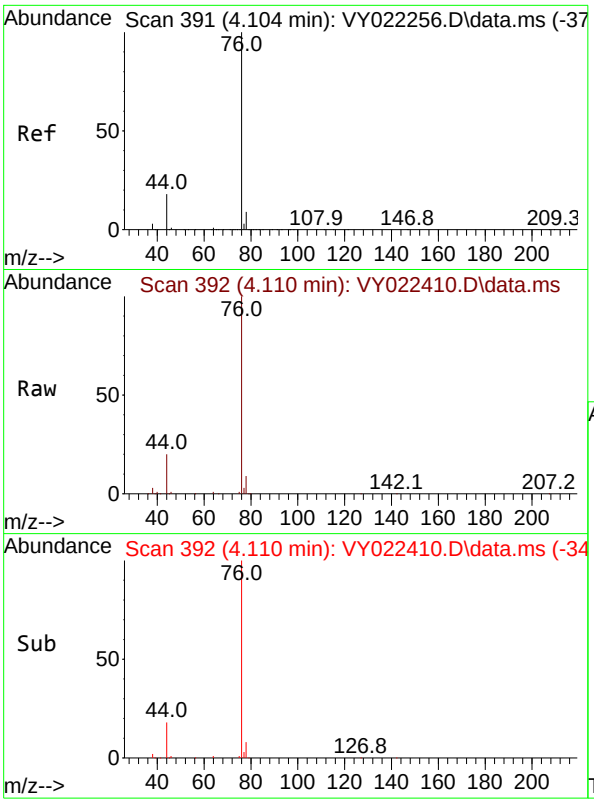


#16
Acetone
Concen: 116.624 ug/l
RT: 3.885 min Scan# 355
Delta R.T. 0.012 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 43 Resp: 51609

Ion	Ratio	Lower	Upper
43	100		
58	34.0	23.6	35.4

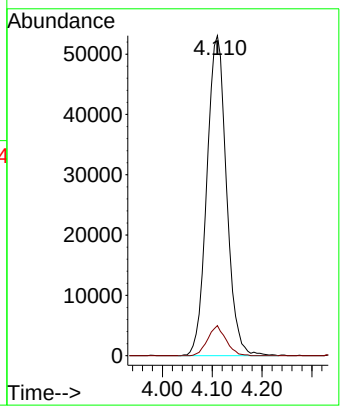




#17
Carbon Disulfide
Concen: 19.256 ug/l
RT: 4.110 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 76 Resp: 14504

Ion	Ratio	Lower	Upper
76	100		
78	9.4	7.2	10.8



Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

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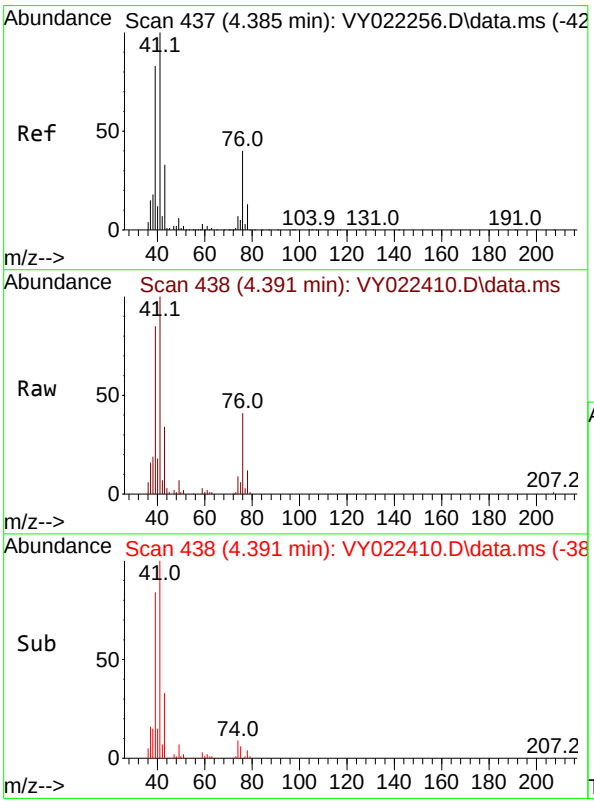
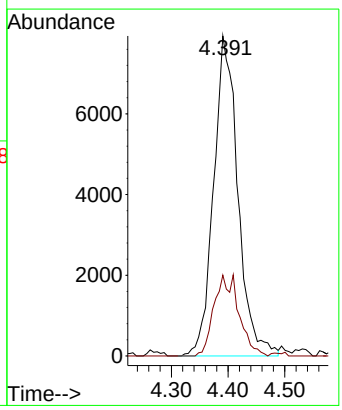
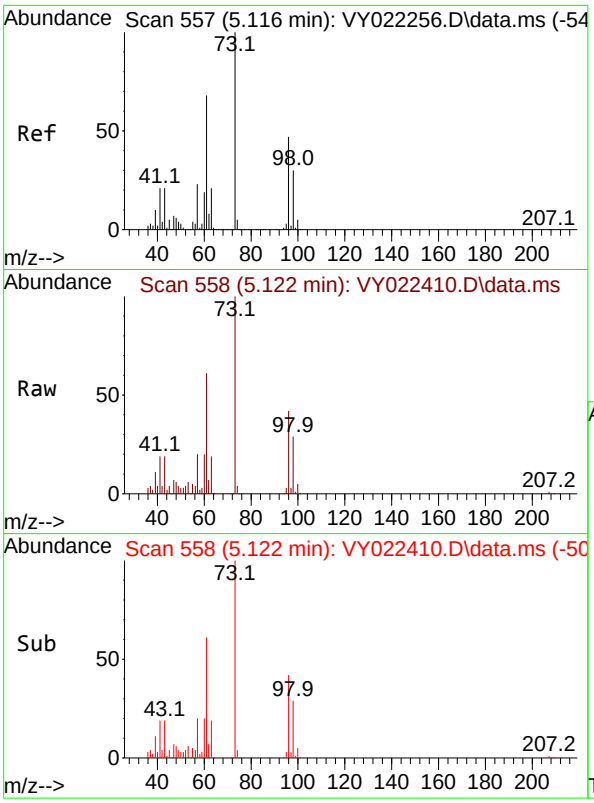


#18
Methyl Acetate
Concen: 16.894 ug/l
RT: 4.391 min Scan# 438
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 43 Resp: 23571

Ion	Ratio	Lower	Upper
43	100		
74	25.9	18.2	27.4

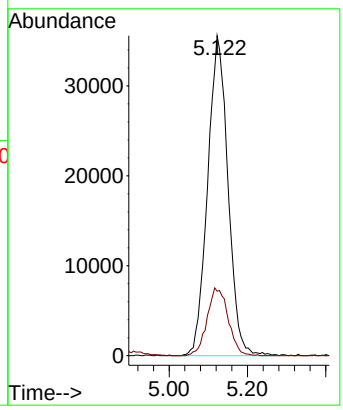




#19
Methyl tert-butyl Ether
Concen: 20.183 ug/l
RT: 5.122 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 73 Resp: 12854

Ion	Ratio	Lower	Upper
73	100		
57	20.2	18.6	28.0



Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

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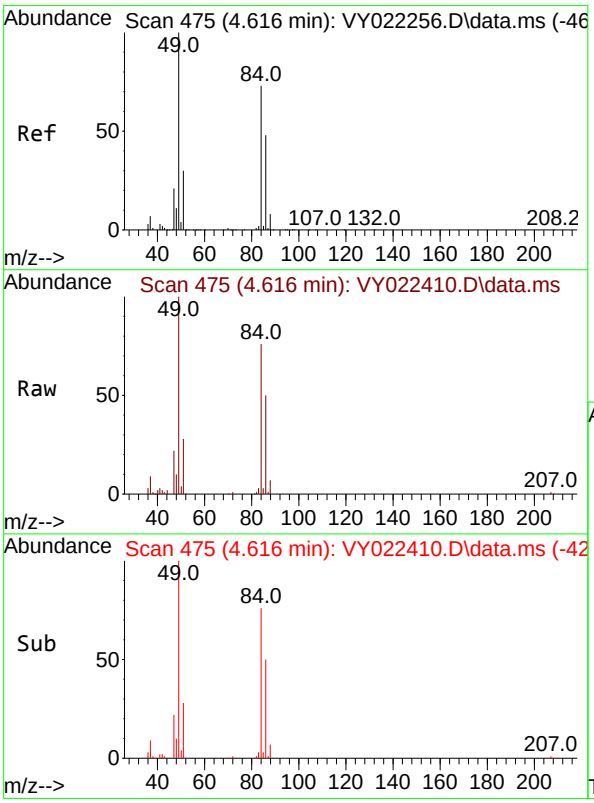
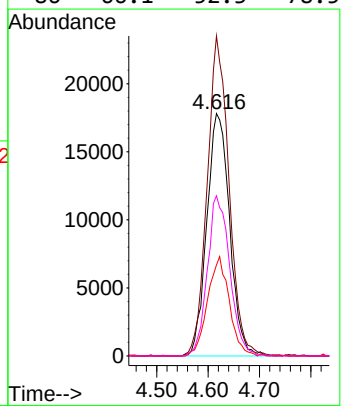
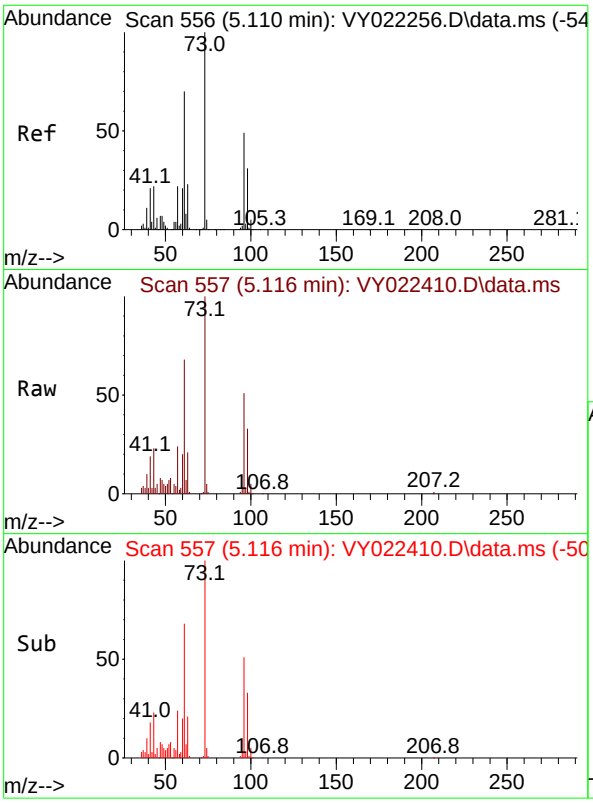


#20
Methylene Chloride
Concen: 19.246 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.000 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 84 Resp: 55034

Ion	Ratio	Lower	Upper
84	100		
49	132.0	109.6	164.4
51	37.6	32.4	48.6
86	66.1	52.3	78.5

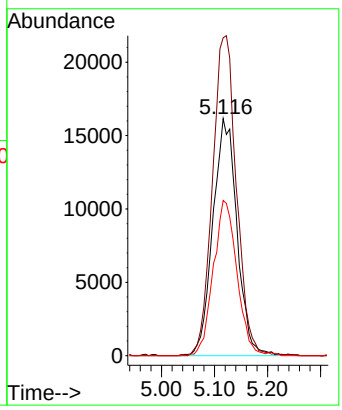




#21
trans-1,2-Dichloroethene
Concen: 20.021 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 96 Resp: 5104

Ion	Ratio	Lower	Upper
96	100		
61	134.1	113.4	170.0
98	65.5	50.9	76.3



Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

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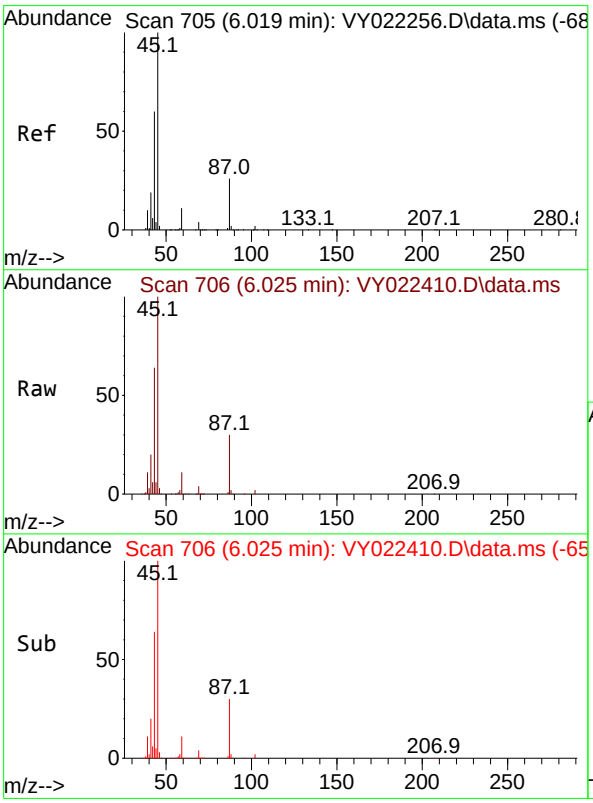
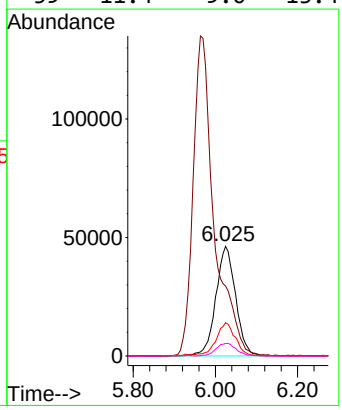
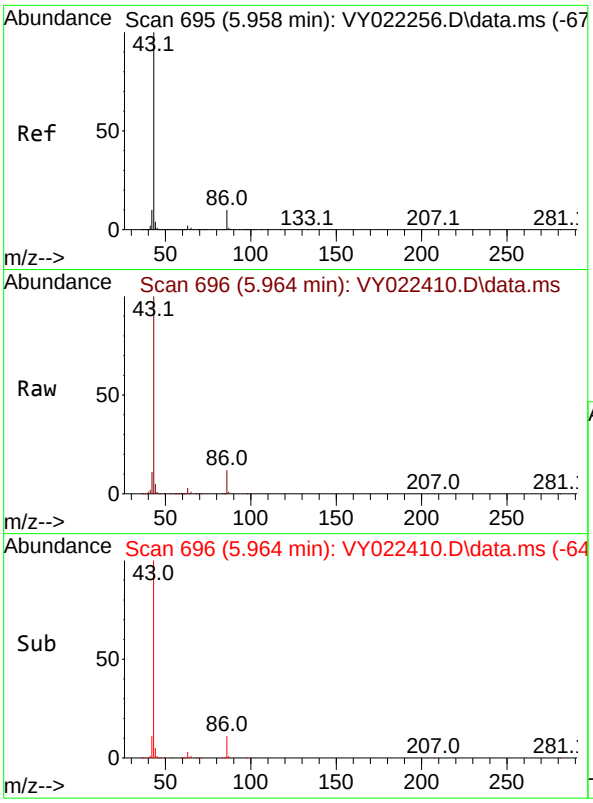


#22
Diisopropyl ether
Concen: 18.055 ug/l
RT: 6.025 min Scan# 706
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 45 Resp: 154423

Ion	Ratio	Lower	Upper
45	100		
43	63.4	48.2	72.2
87	30.4	21.4	32.0
59	11.4	9.0	13.4

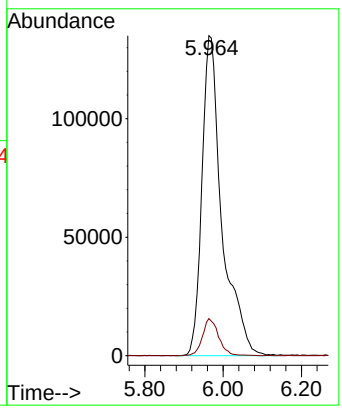




#23
Vinyl Acetate
Concen: 92.684 ug/l
RT: 5.964 min Scan# 6
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 43 Resp: 47891

Ion	Ratio	Lower	Upper
43	100		
86	11.6	7.8	11.8



Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

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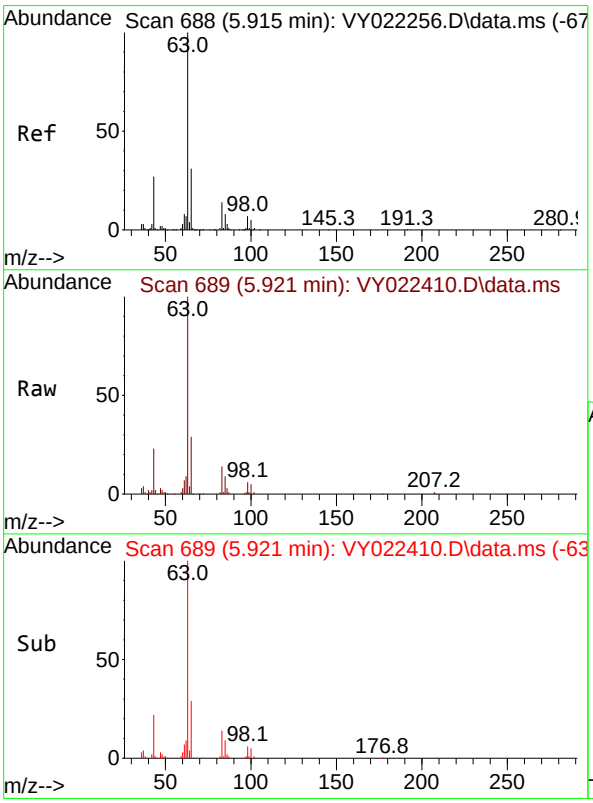
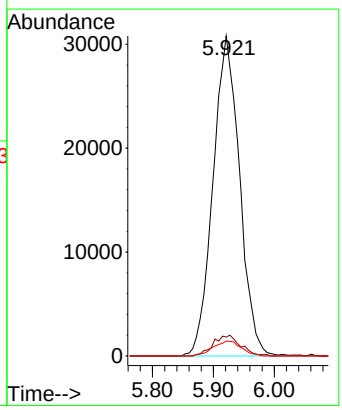
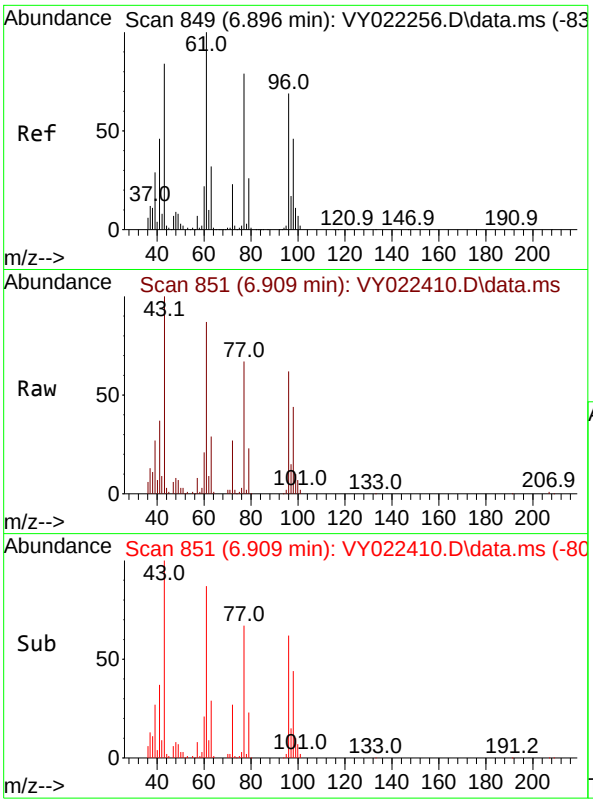


#24
1,1-Dichloroethane
Concen: 19.513 ug/l
RT: 5.921 min Scan# 689
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 63 Resp: 93240

Ion	Ratio	Lower	Upper
63	100		
98	5.9	3.5	10.5
100	4.7	2.4	7.2

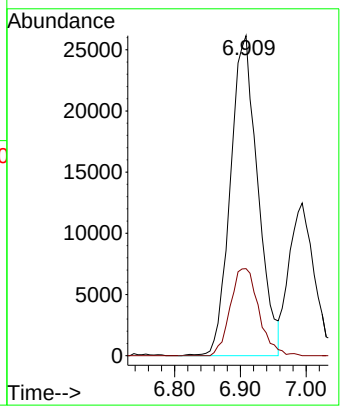




#25
2-Butanone
Concen: 102.161 ug/l
RT: 6.909 min Scan# 8
Delta R.T. 0.012 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 43 Resp: 7562

Ion	Ratio	Lower	Upper
43	100		
72	27.2	22.1	33.1



Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

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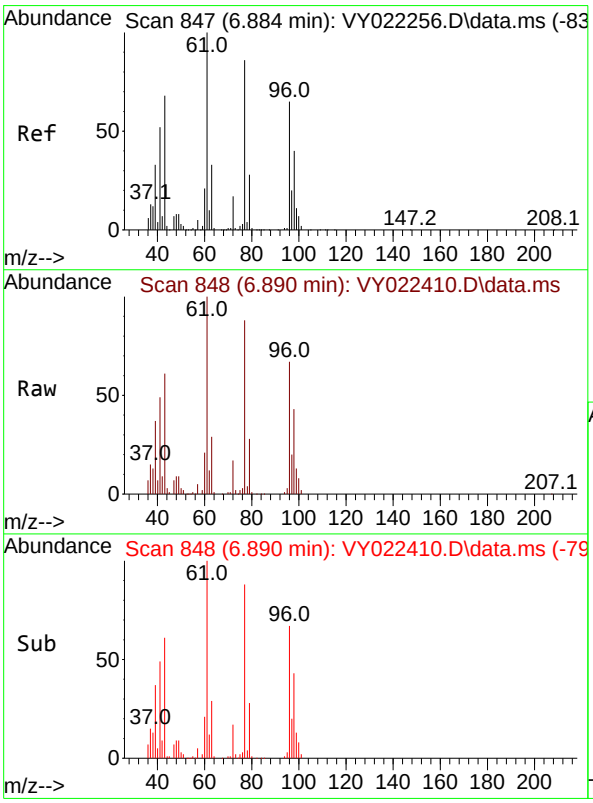
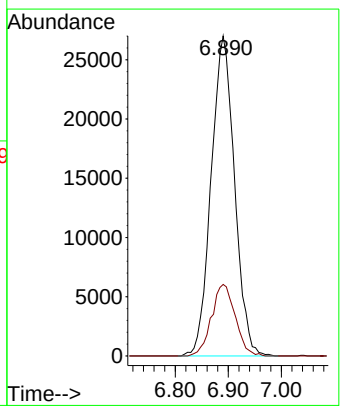
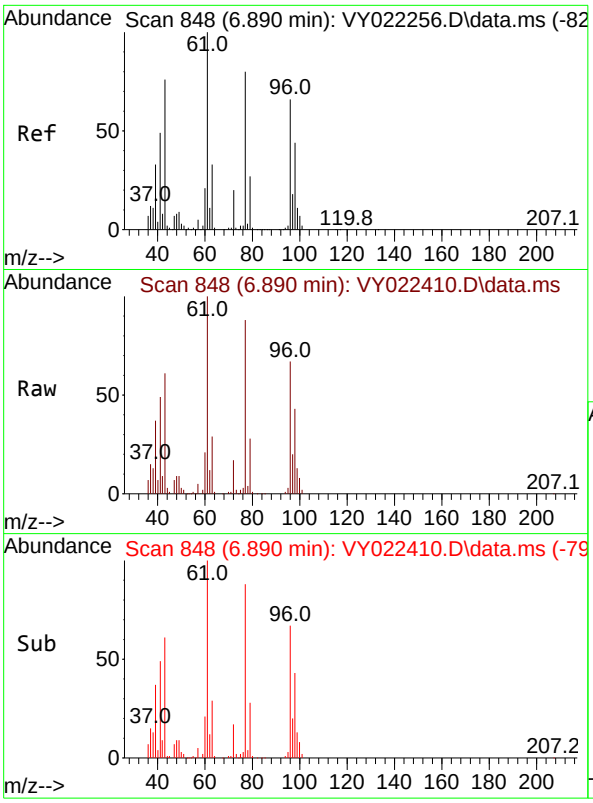


#26
2,2-Dichloropropane
Concen: 19.458 ug/l
RT: 6.890 min Scan# 848
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 77 Resp: 82698

Ion	Ratio	Lower	Upper
77	100		
97	22.7	11.2	33.5





#27
cis-1,2-Dichloroethene
Concen: 20.533 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 96 Resp: 6041

Ion	Ratio	Lower	Upper
96	100		
61	141.8	0.0	302.6
98	64.2	0.0	128.8

Instrument :
MSVOA_Y
ClientSampleId :
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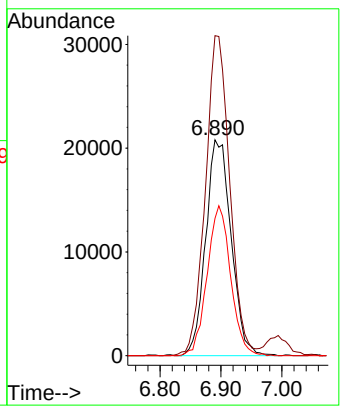
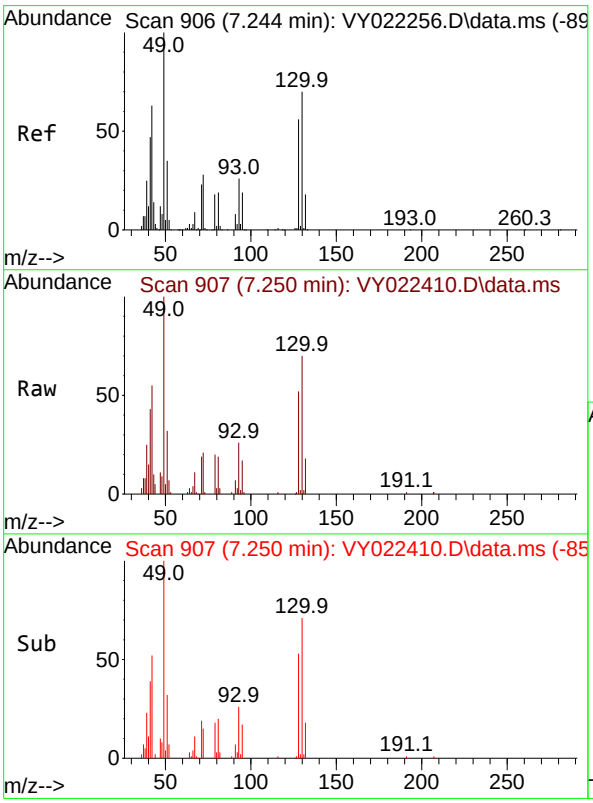
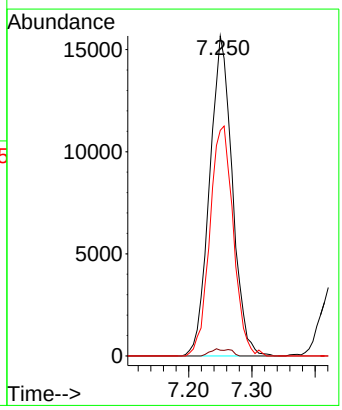


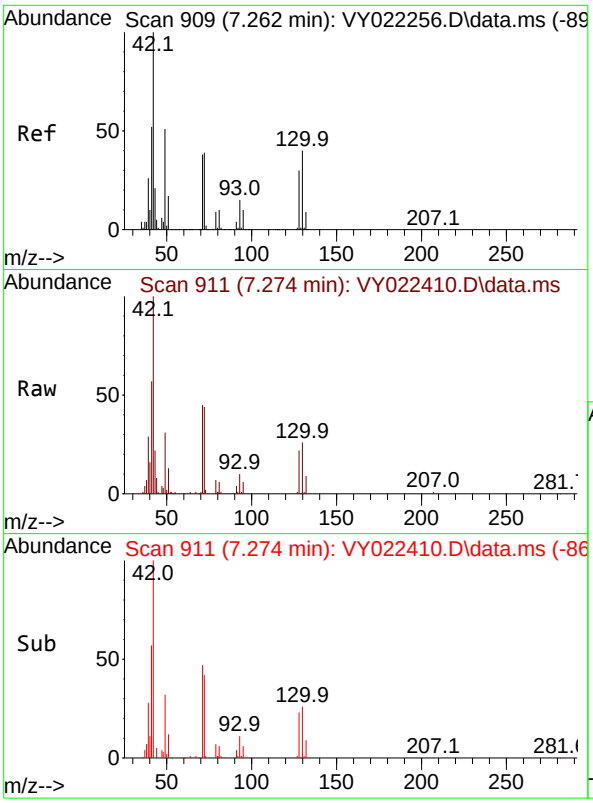


#28
Bromochloromethane
Concen: 19.174 ug/l
RT: 7.250 min Scan# 907
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 49 Resp: 39080

Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	3.6
130	74.1	54.7	82.1





#29
Tetrahydrofuran
Concen: 97.632 ug/l
RT: 7.274 min Scan# 91
Delta R.T. 0.012 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 42 Resp: 4649

Ion	Ratio	Lower	Upper
42	100		
72	46.2	33.8	50.6
71	44.5	31.5	47.3

Instrument :
MSVOA_Y
ClientSampleId :
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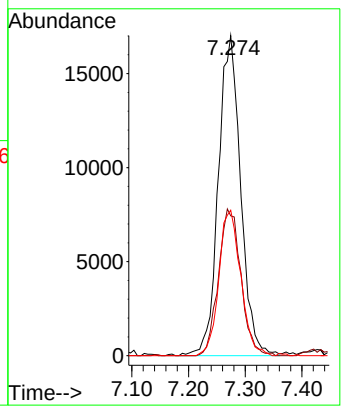
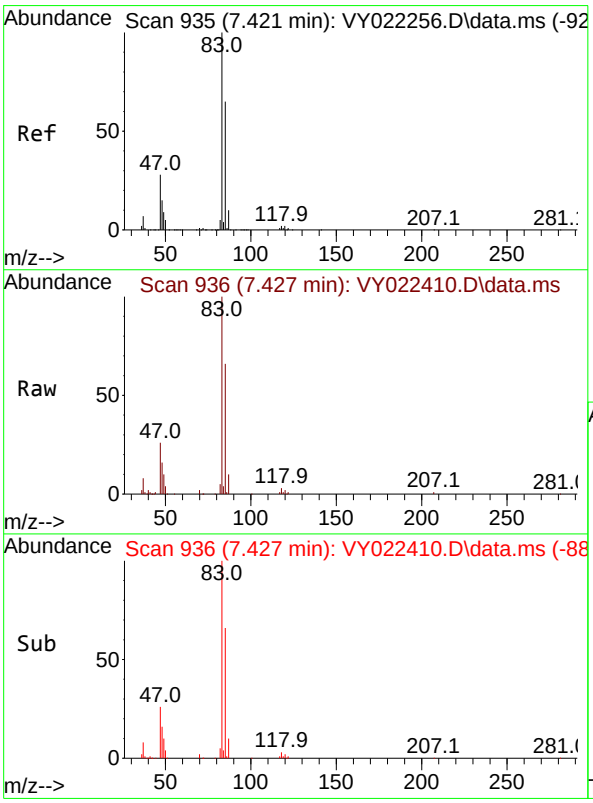
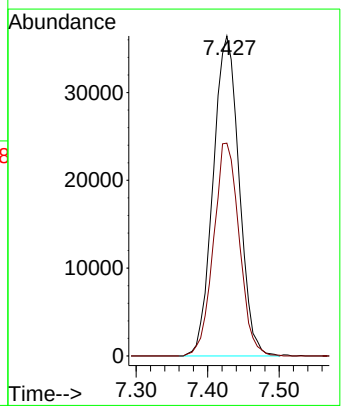


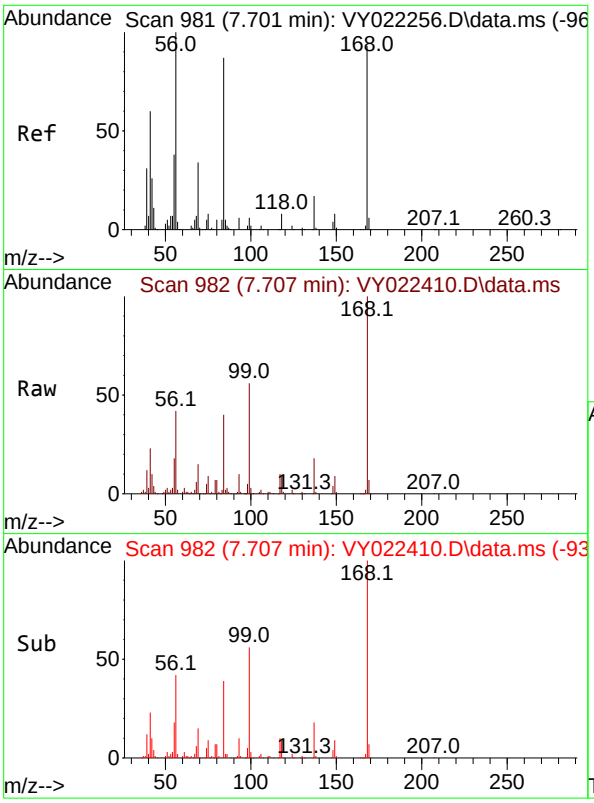


#30
Chloroform
Concen: 20.062 ug/l
RT: 7.427 min Scan# 936
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 83 Resp: 91951

Ion	Ratio	Lower	Upper
83	100		
85	66.5	51.8	77.8





#31
Cyclohexane
Concen: 19.115 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 56 Resp: 9126

Ion	Ratio	Lower	Upper
56	100		
69	35.0	27.4	41.2
84	94.1	70.0	105.0

Instrument :
MSVOA_Y
ClientSampleId :
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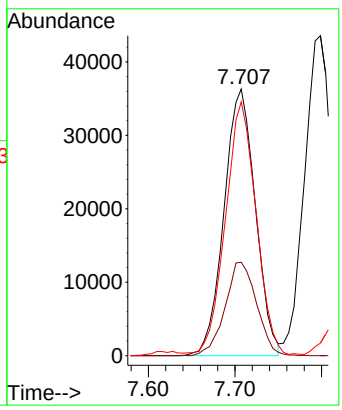
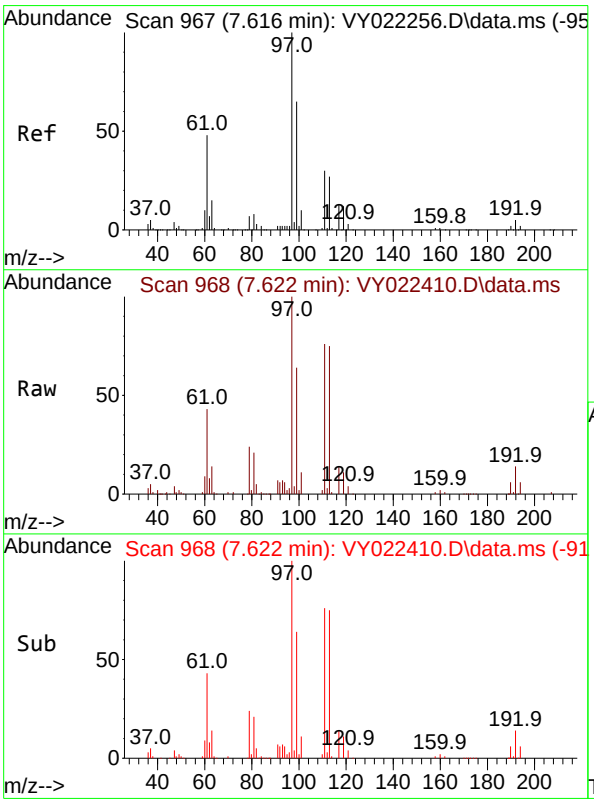
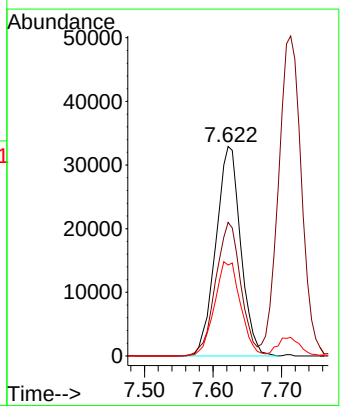


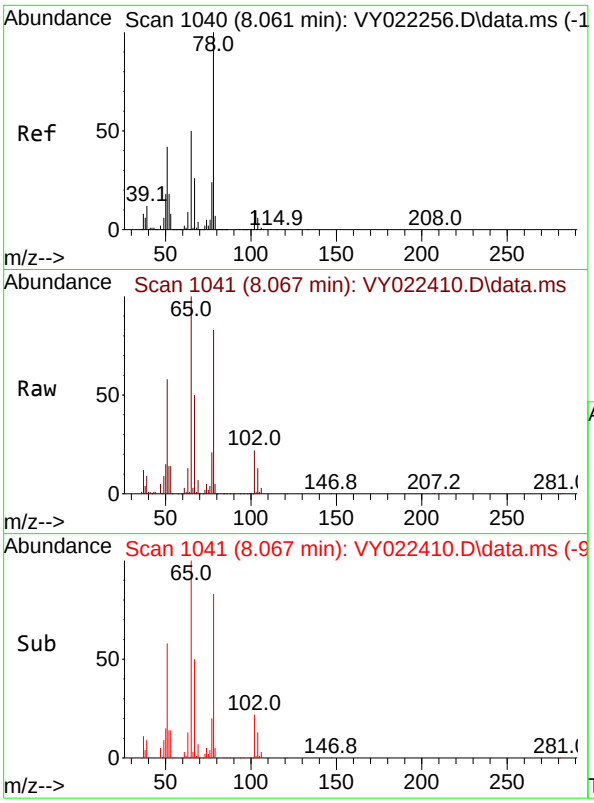


#32
1,1,1-Trichloroethane
Concen: 19.732 ug/l
RT: 7.622 min Scan# 968
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 97 Resp: 82971

Ion	Ratio	Lower	Upper
97	100		
99	64.3	51.4	77.0
61	47.2	38.1	57.1





#33
1,2-Dichloroethane-d4
Concen: 51.588 ug/l
RT: 8.067 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 65 Resp: 12175

Ion	Ratio	Lower	Upper
65	100		
67	52.7	0.0	104.6

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

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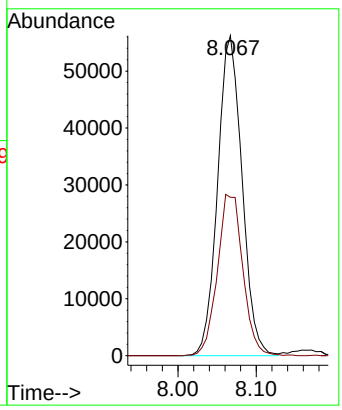
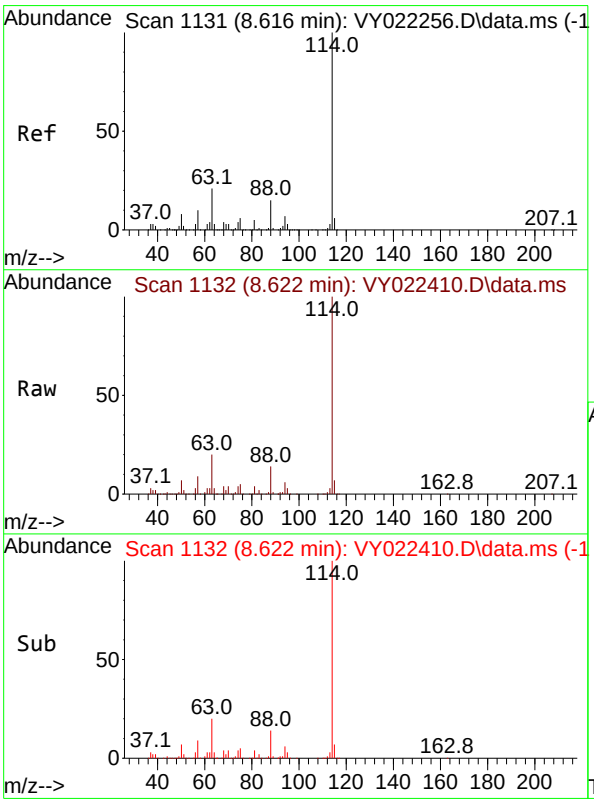
Supervised By :Semsettin Yesilyurt 05/27/2025

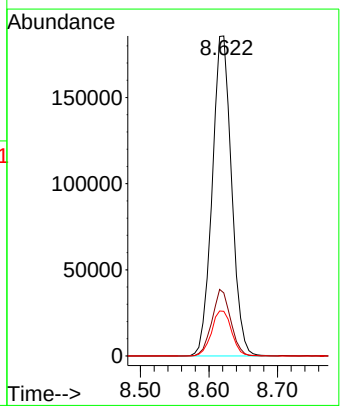


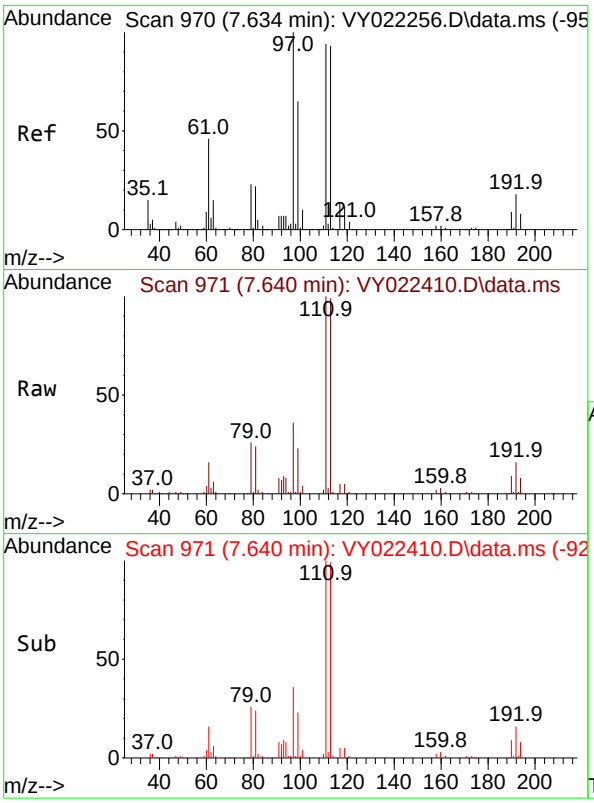


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.622 min Scan# 1132
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion:114 Resp: 364015

Ion	Ratio	Lower	Upper
114	100		
63	19.7	0.0	41.0
88	14.0	0.0	29.4

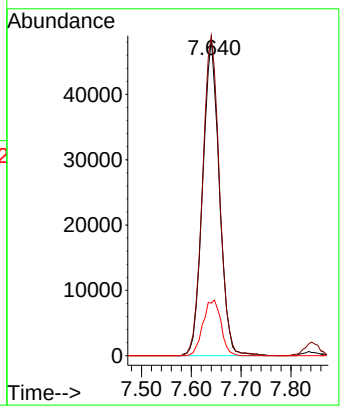




#35
Dibromofluoromethane
Concen: 51.387 ug/l
RT: 7.640 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion:113 Resp: 11164

Ion	Ratio	Lower	Upper
113	100		
111	103.4	82.6	123.8
192	19.1	15.2	22.8



Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

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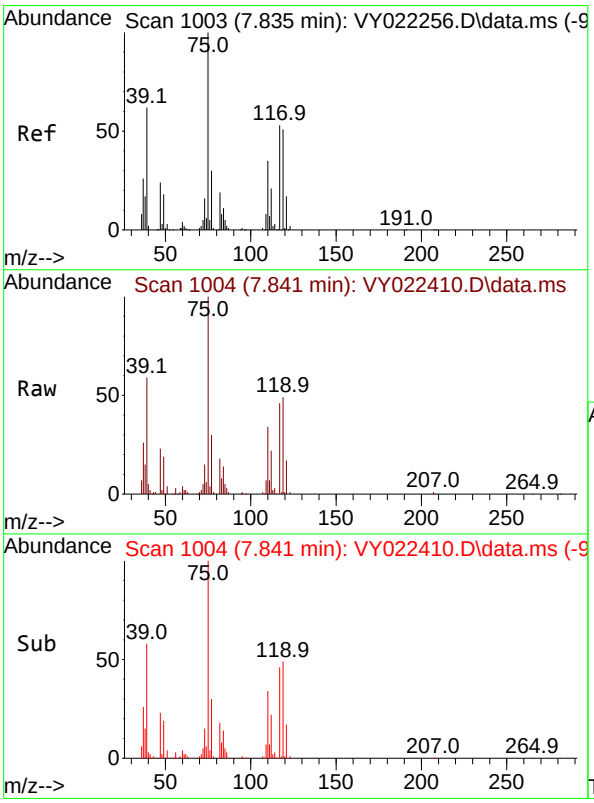
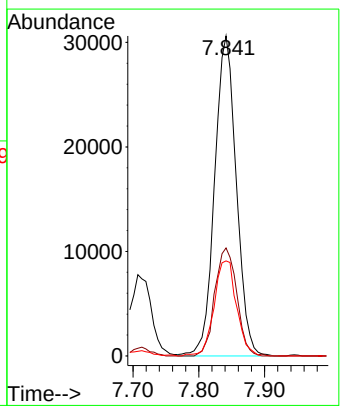
Supervised By :Semsettin Yesilyurt 05/27/2025

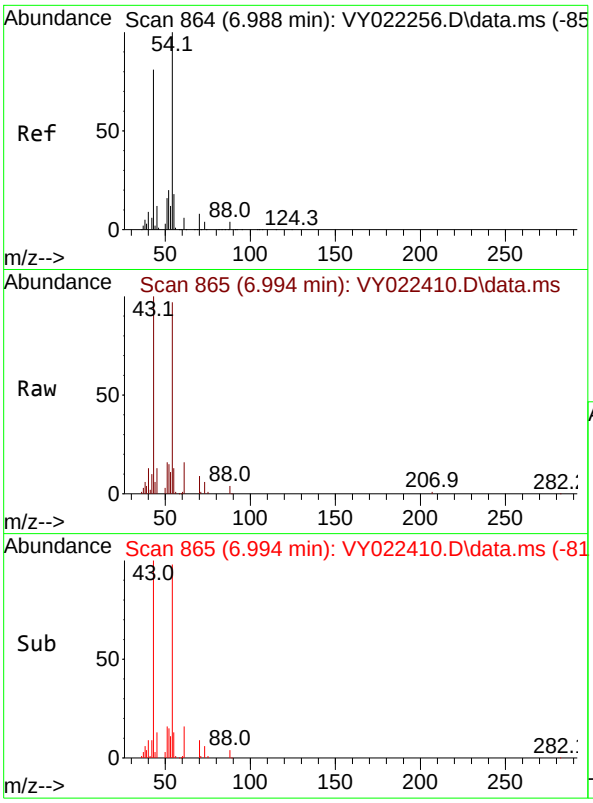


#36
1,1-Dichloropropene
Concen: 19.634 ug/l
RT: 7.841 min Scan# 1004
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 75 Resp: 70261

Ion	Ratio	Lower	Upper
75	100		
110	34.2	16.6	49.8
77	30.8	24.6	37.0

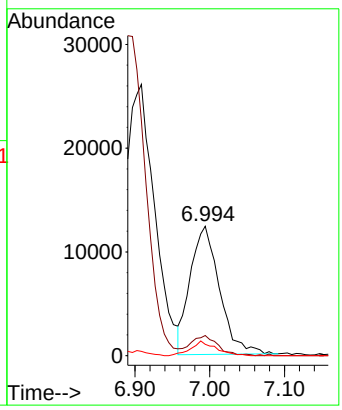




#37
Ethyl Acetate
Concen: 19.559 ug/l
RT: 6.994 min Scan# 8
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 43 Resp: 3367

Ion	Ratio	Lower	Upper
43	100		
61	14.9	10.2	15.2
70	9.6	7.6	11.4



Instrument :
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ClientSampleId :
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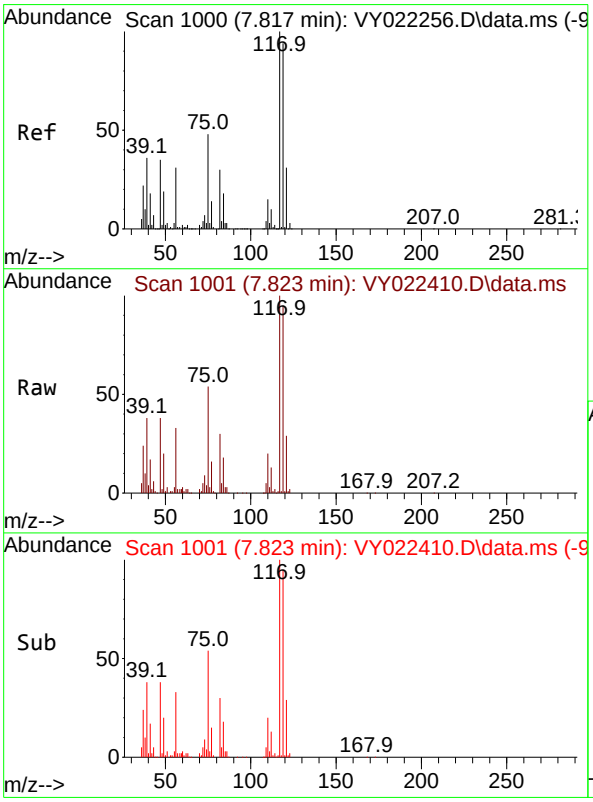
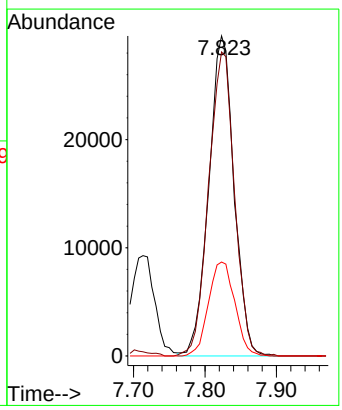
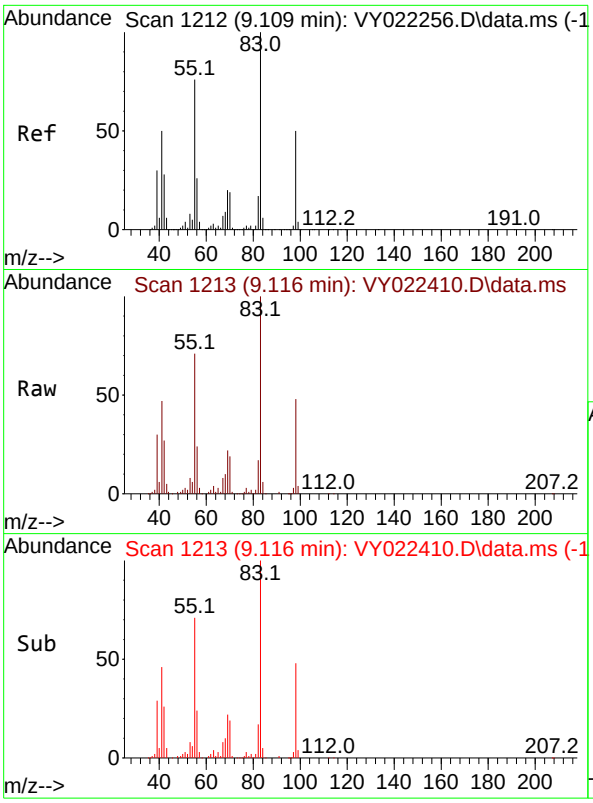


#38
Carbon Tetrachloride
Concen: 19.562 ug/l
RT: 7.823 min Scan# 1001
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion:117 Resp: 72463

Ion	Ratio	Lower	Upper
117	100		
119	95.0	75.3	112.9
121	29.3	24.7	37.1

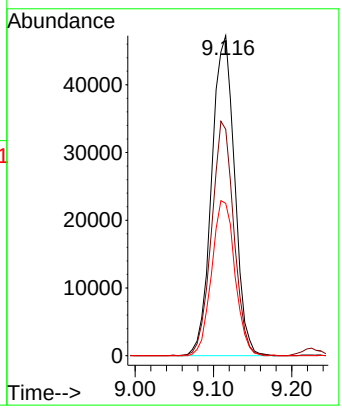




#39
Methylcyclohexane
Concen: 19.953 ug/l
RT: 9.116 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 83 Resp: 9593

Ion	Ratio	Lower	Upper
83	100		
55	70.7	60.6	90.8
98	47.6	40.0	60.0



Instrument :
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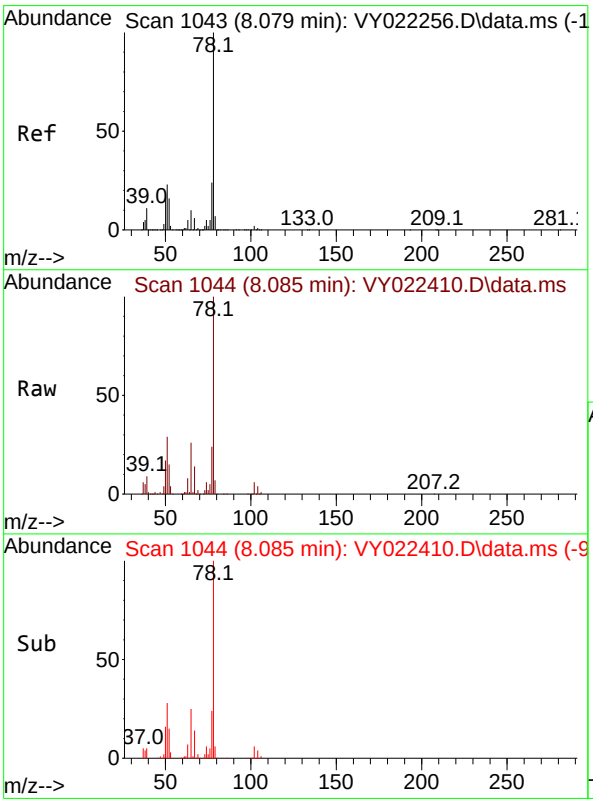
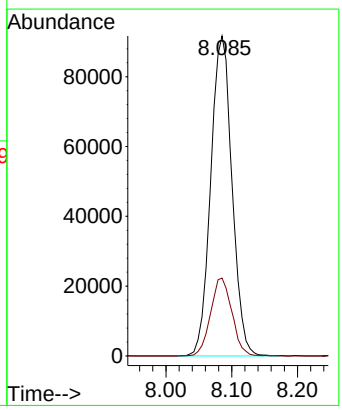
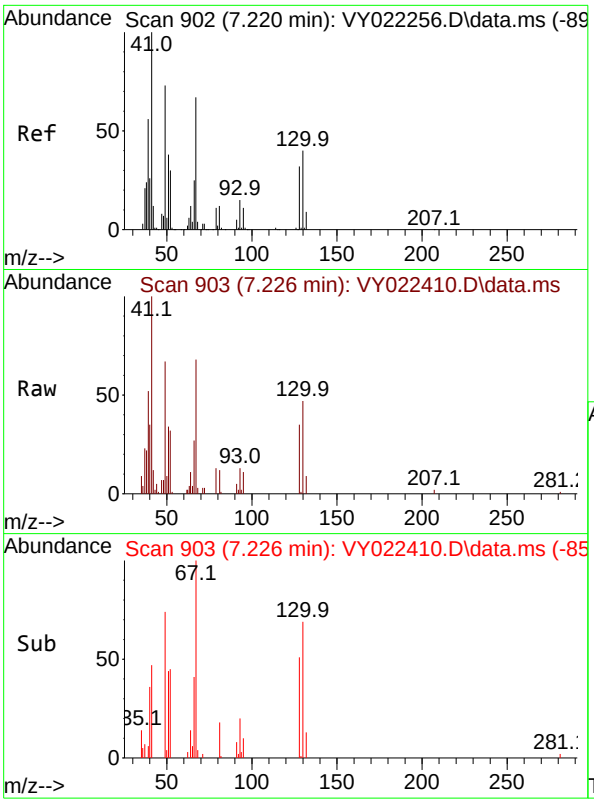


#40
Benzene
Concen: 19.434 ug/l
RT: 8.085 min Scan# 1044
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 78 Resp: 206176

Ion	Ratio	Lower	Upper
78	100		
77	24.3	18.9	28.3

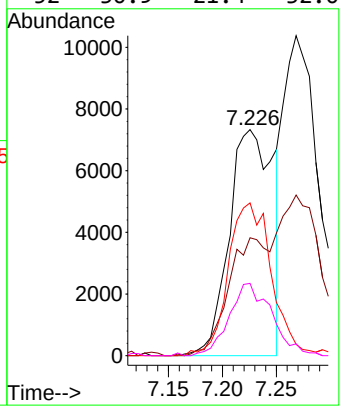




#41
Methacrylonitrile
Concen: 18.186 ug/l m
RT: 7.226 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 41 Resp: 2077

Ion	Ratio	Lower	Upper
41	100		
39	48.1	39.1	58.7
67	66.9	47.1	70.7
52	30.9	21.4	32.0



Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

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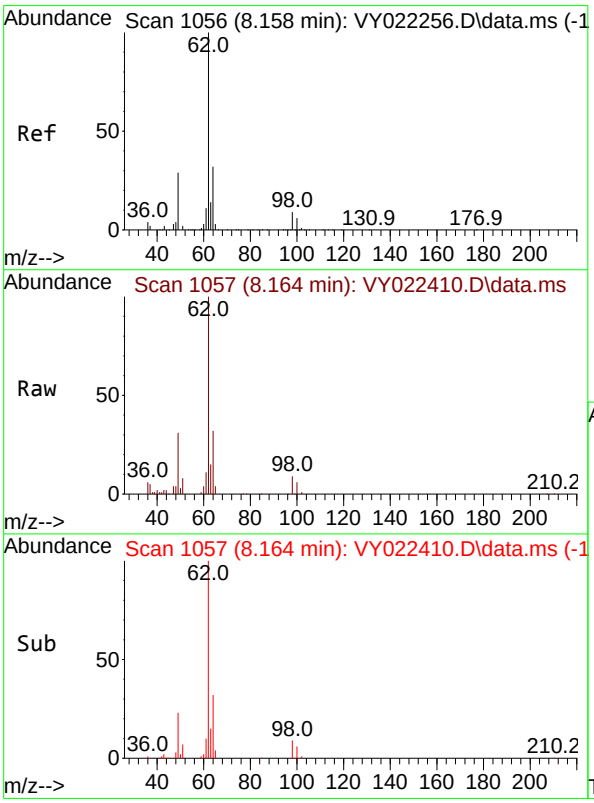
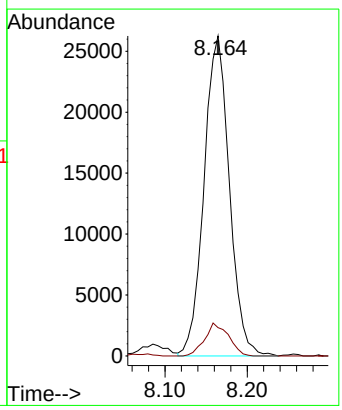
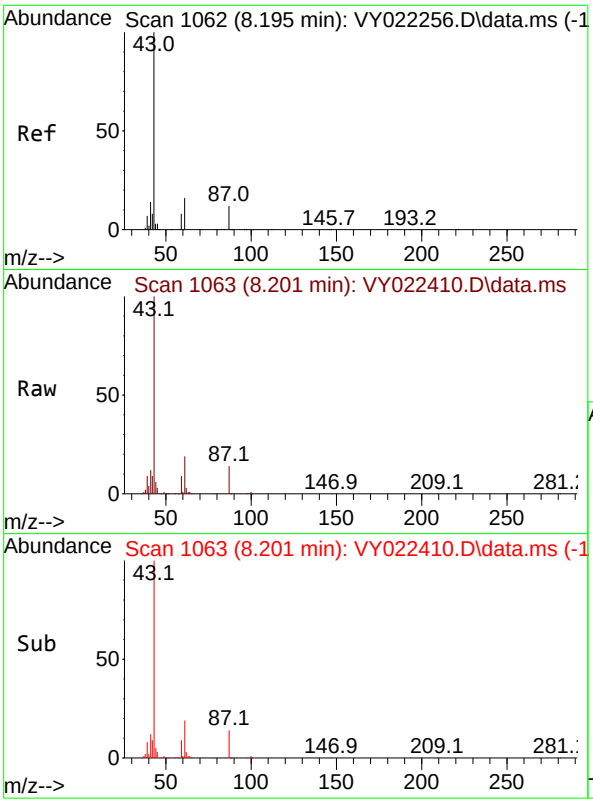


#42
1,2-Dichloroethane
Concen: 19.599 ug/l
RT: 8.164 min Scan# 1057
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 62 Resp: 56227

Ion	Ratio	Lower	Upper
62	100		
98	9.7	0.0	18.4





#43
Isopropyl Acetate
Concen: 18.381 ug/l
RT: 8.201 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 43 Resp: 6902

Ion	Ratio	Lower	Upper
43	100		
61	29.5	15.1	22.7#
87	13.7	9.7	14.5

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

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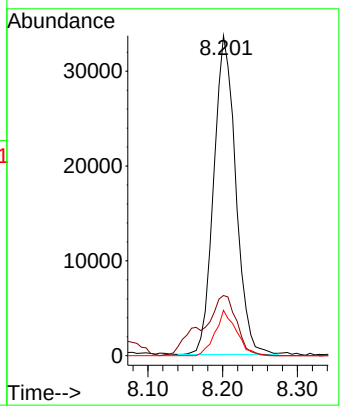
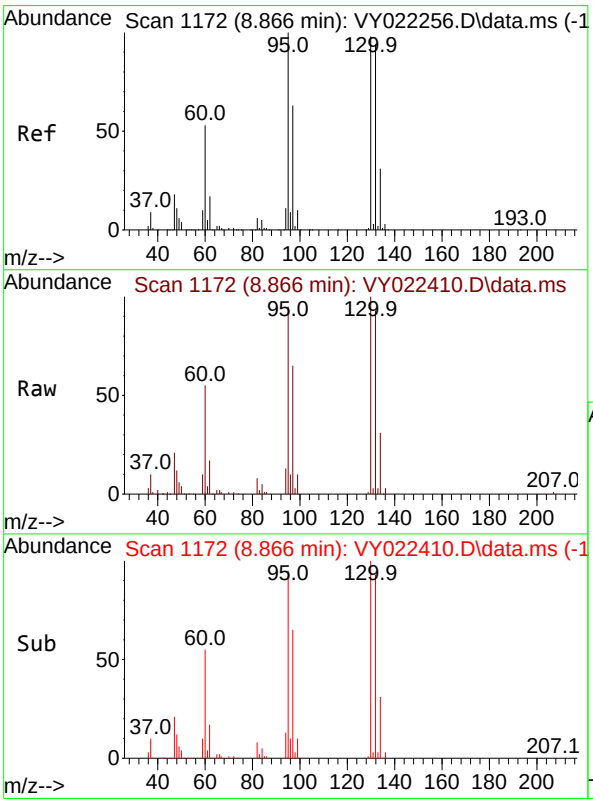
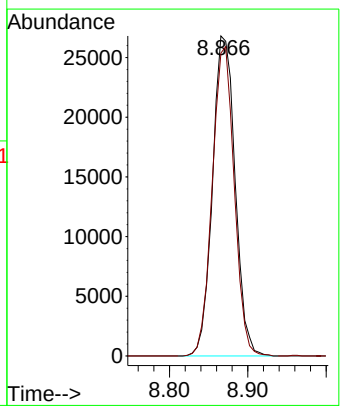


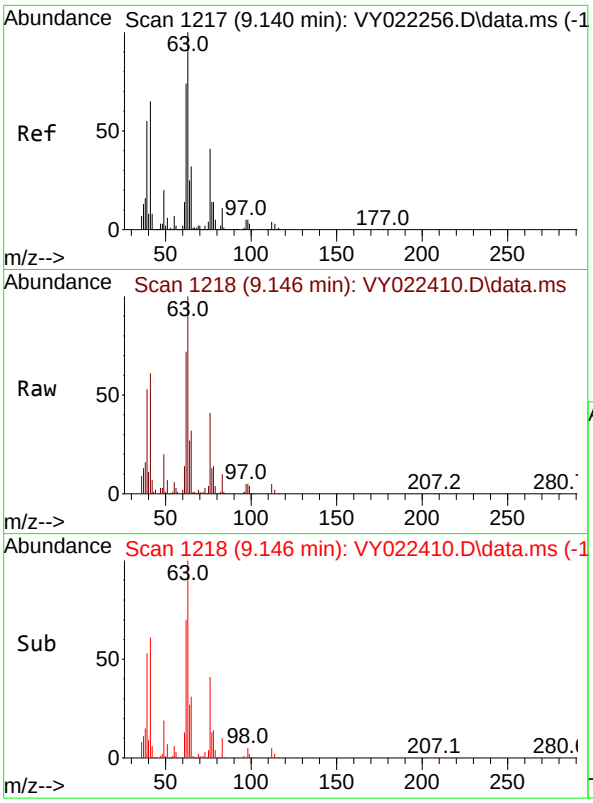


#44
Trichloroethene
Concen: 20.387 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. 0.000 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion:130 Resp: 53777

Ion	Ratio	Lower	Upper
130	100		
95	94.6	0.0	204.8





#45
1,2-Dichloropropane
Concen: 19.023 ug/l
RT: 9.146 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 63 Resp: 4865

Ion	Ratio	Lower	Upper
63	100		
65	31.5	25.7	38.5

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

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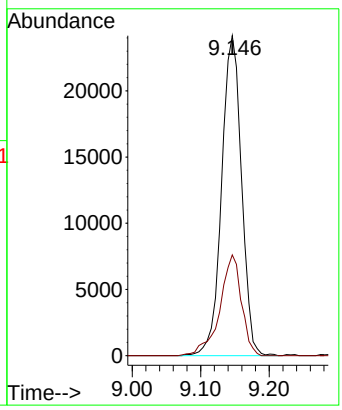
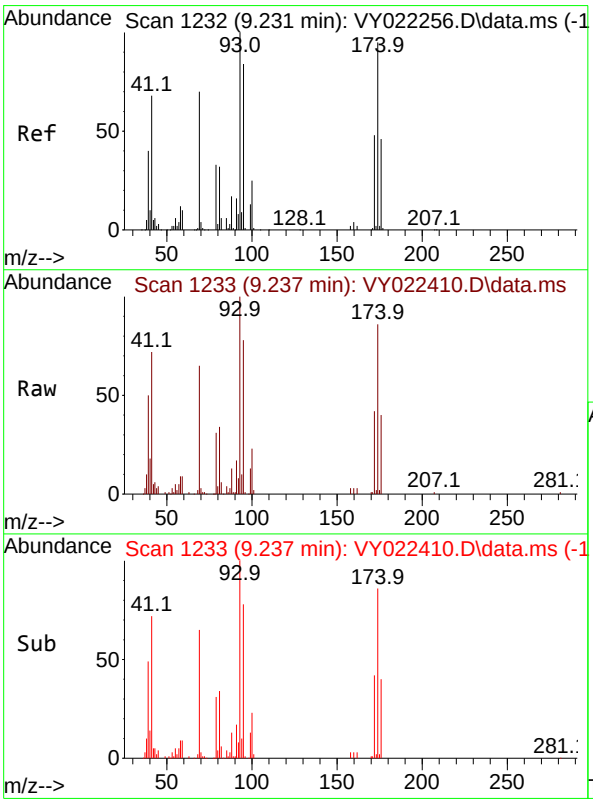
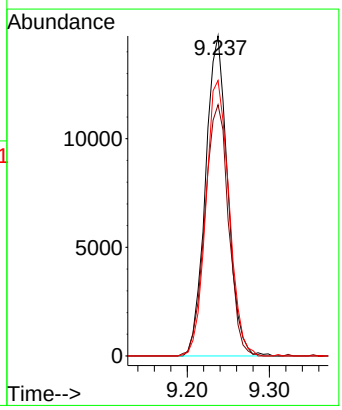


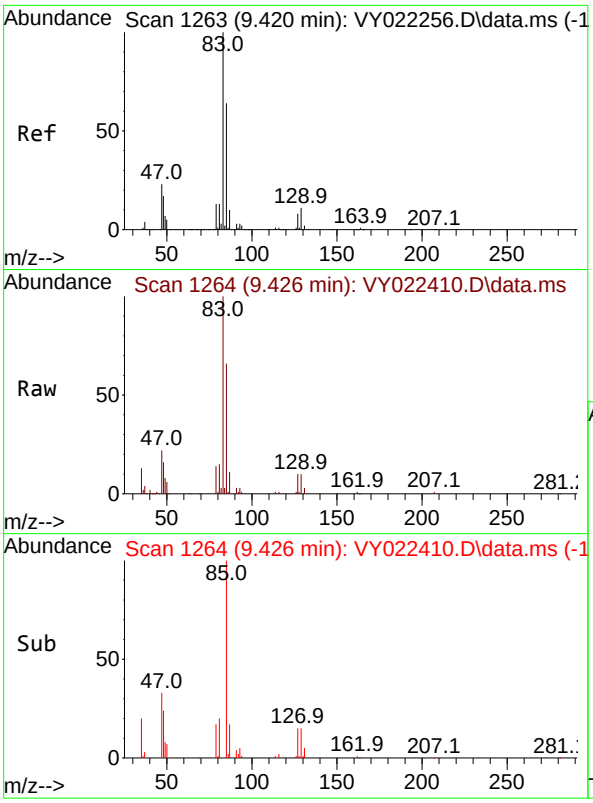


#46
Dibromomethane
Concen: 20.018 ug/l
RT: 9.237 min Scan# 1233
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 93 Resp: 27615

Ion	Ratio	Lower	Upper
93	100		
95	83.3	65.2	97.8
174	89.9	74.3	111.5

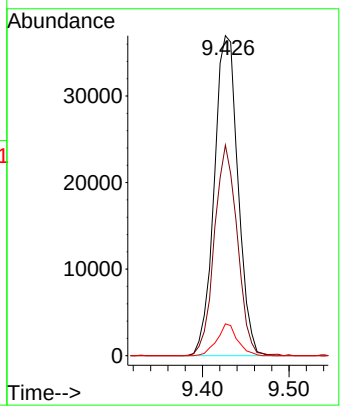




#47
Bromodichloromethane
Concen: 19.662 ug/l
RT: 9.426 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 83 Resp: 7036

Ion	Ratio	Lower	Upper
83	100		
85	65.8	51.1	76.7
127	9.9	6.6	10.0



Instrument :
MSVOA_Y
ClientSampleId :
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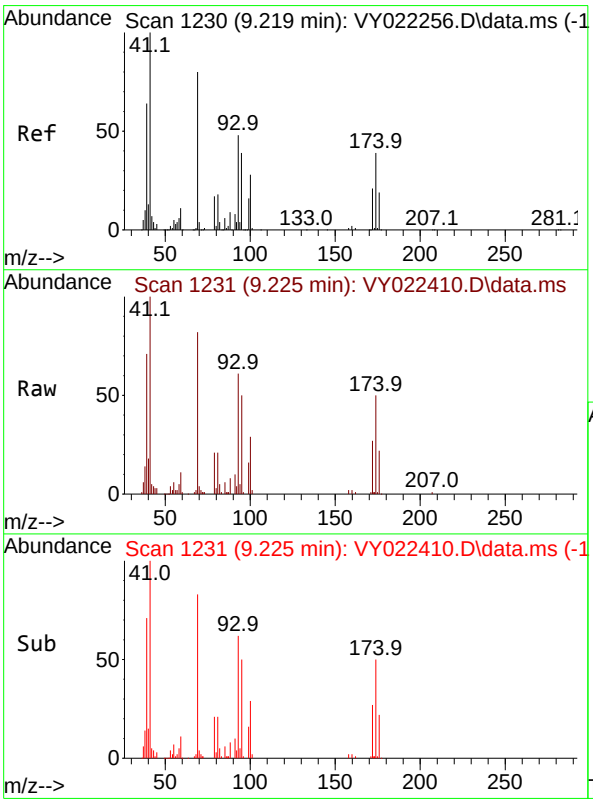
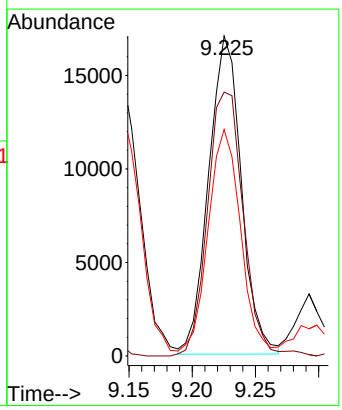
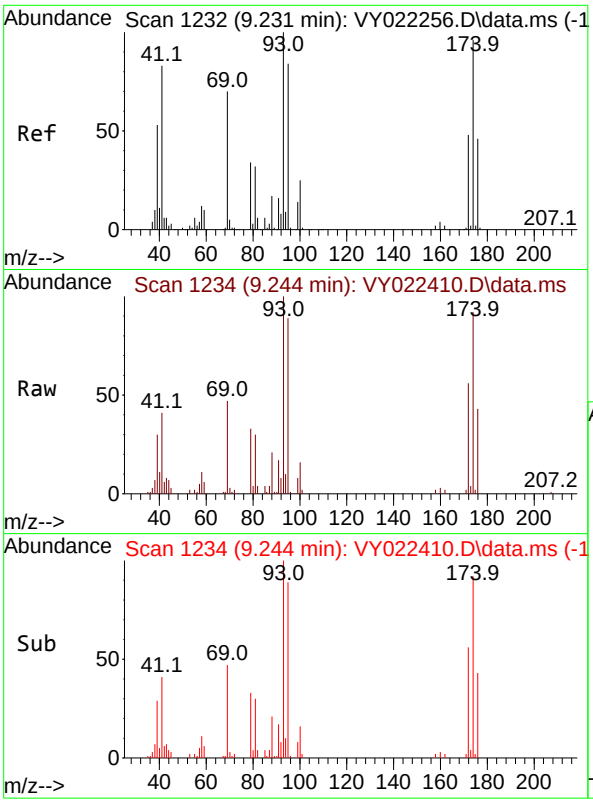


#48
Methyl methacrylate
Concen: 17.382 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 41 Resp: 30525

Ion	Ratio	Lower	Upper
41	100		
69	90.7	63.5	95.3
39	68.5	50.8	76.2





#49
1,4-Dioxane
Concen: 420.419 ug/l
RT: 9.244 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 88 Resp: 655

Ion	Ratio	Lower	Upper
88	100		
43	33.7	28.5	42.7
58	63.2	61.4	92.2

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

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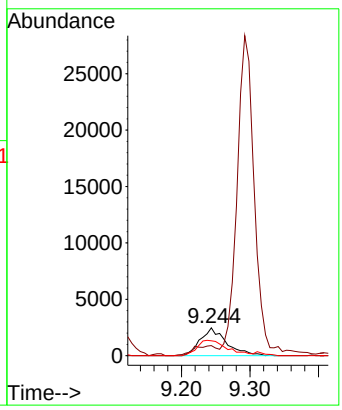
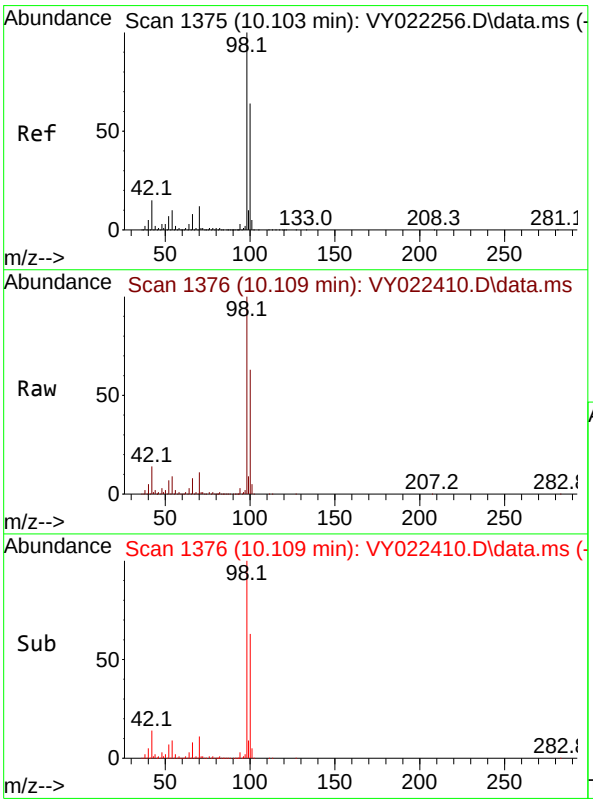
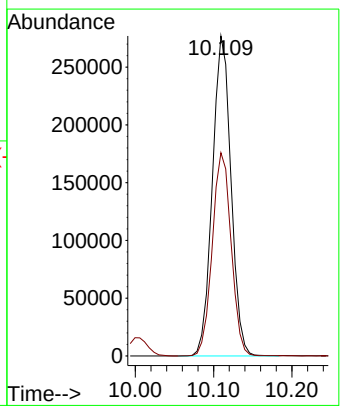


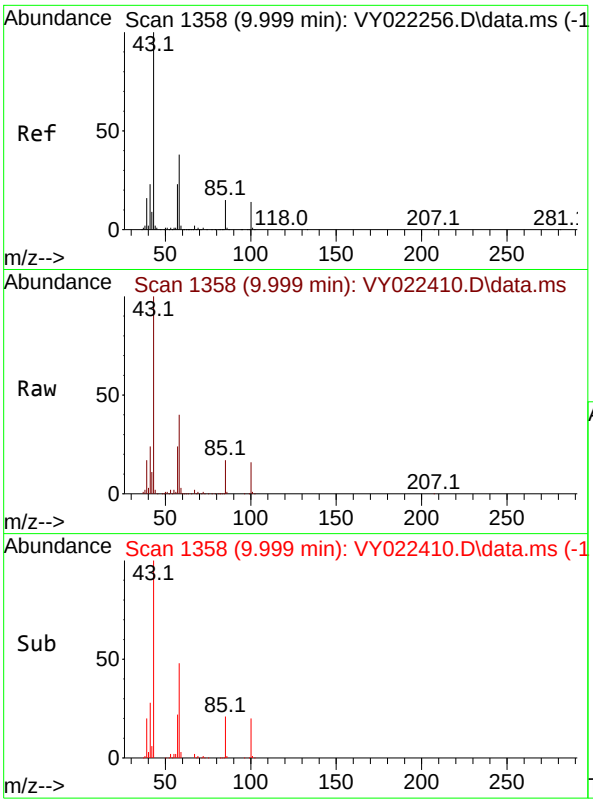


#50
Toluene-d8
Concen: 51.320 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 98 Resp: 456658

Ion	Ratio	Lower	Upper
98	100		
100	64.4	51.8	77.8





#51
4-Methyl-2-Pentanone
Concen: 93.776 ug/l
RT: 9.999 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 43 Resp: 17278

Ion	Ratio	Lower	Upper
43	100		
58	39.0	29.4	44.2

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

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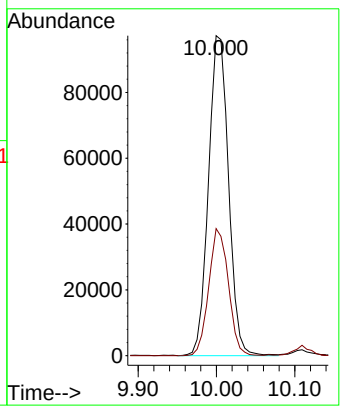
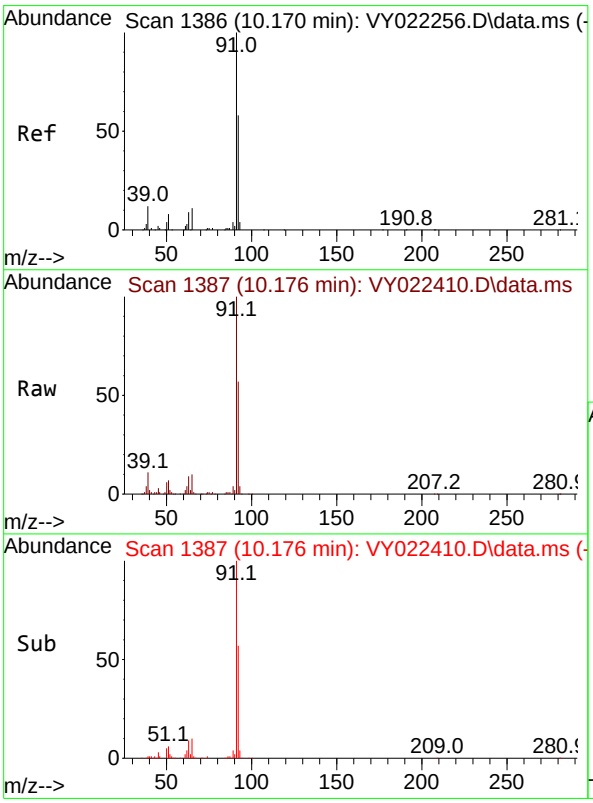
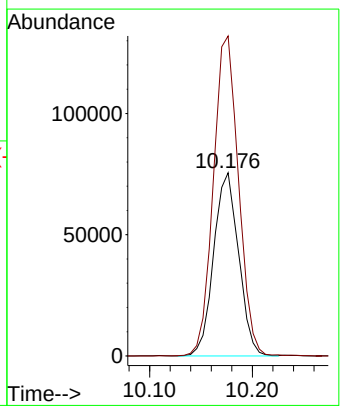


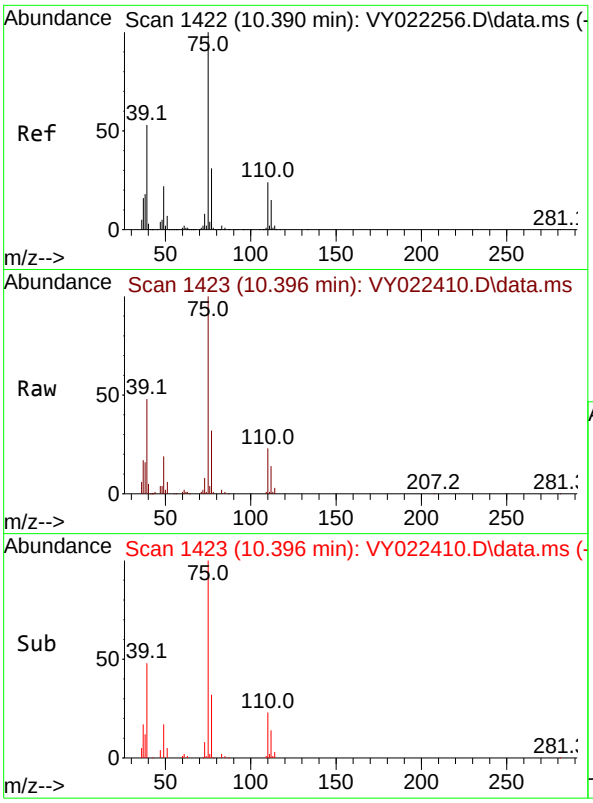


#52
Toluene
Concen: 18.928 ug/l
RT: 10.176 min Scan# 1387
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 92 Resp: 127157

Ion	Ratio	Lower	Upper
92	100		
91	176.4	139.1	208.7

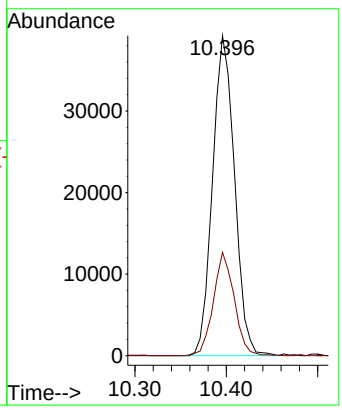




#53
t-1,3-Dichloropropene
Concen: 18.778 ug/l
RT: 10.396 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 75 Resp: 6558

Ion	Ratio	Lower	Upper
75	100		
77	32.3	25.0	37.6



Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

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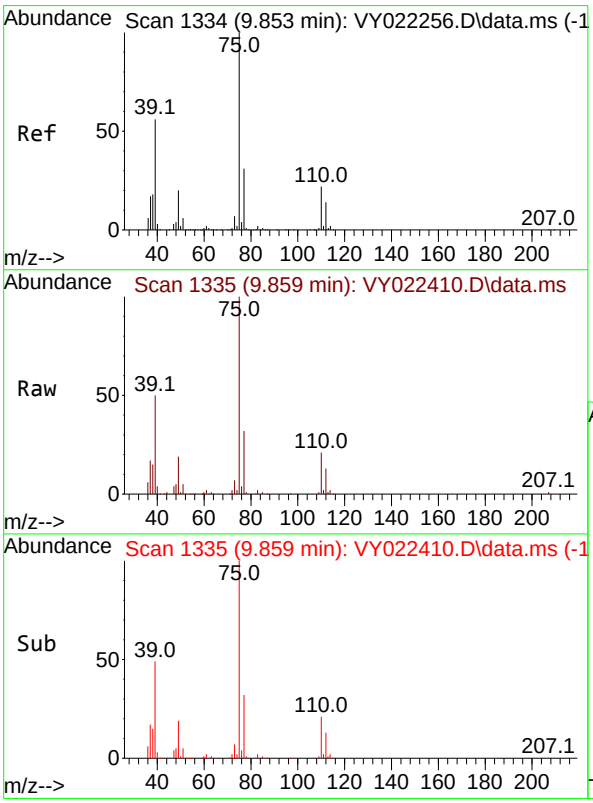
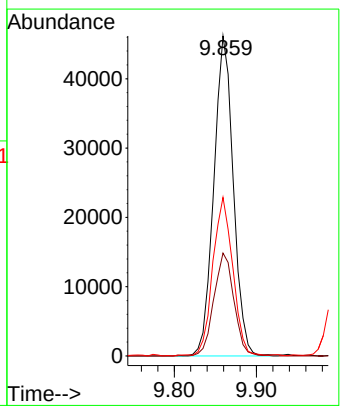
Supervised By :Semsettin Yesilyurt 05/27/2025

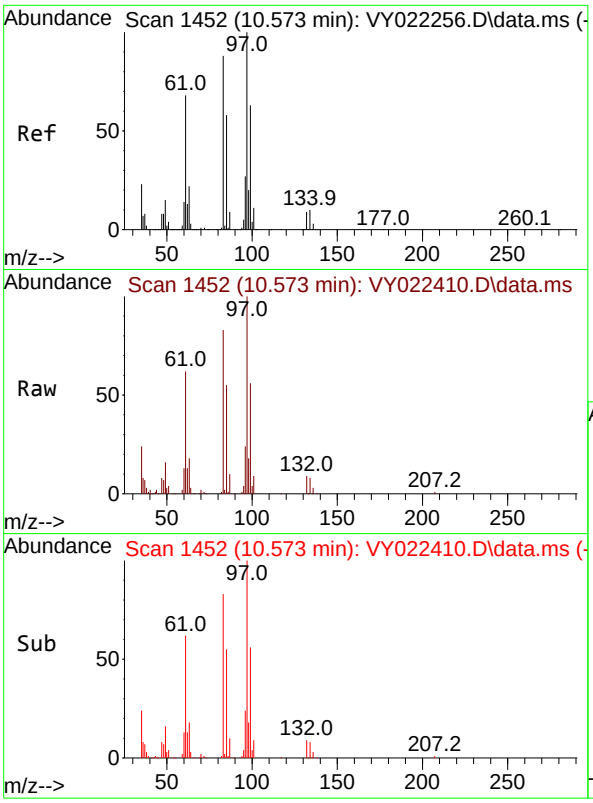


#54
cis-1,3-Dichloropropene
Concen: 18.992 ug/l
RT: 9.859 min Scan# 1335
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 75 Resp: 75996

Ion	Ratio	Lower	Upper
75	100		
77	32.1	25.1	37.7
39	49.3	44.5	66.7

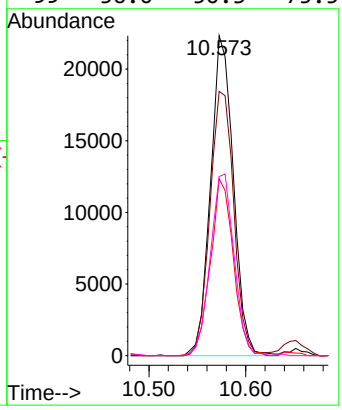




#55
1,1,2-Trichloroethane
Concen: 20.689 ug/l
RT: 10.573 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 97 Resp: 3654

Ion	Ratio	Lower	Upper
97	100		
83	82.6	70.3	105.5
85	55.3	46.2	69.4
99	56.0	50.3	75.5



Instrument :
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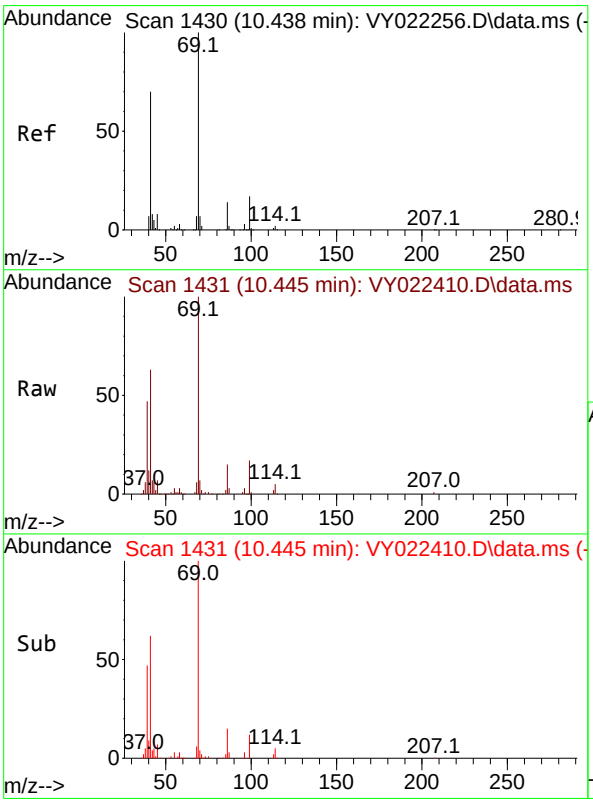
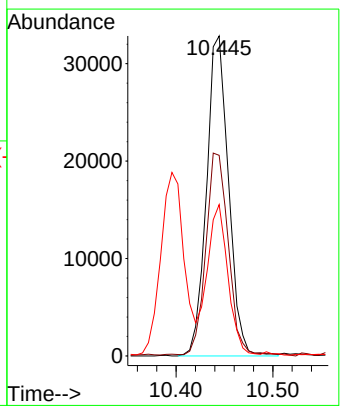
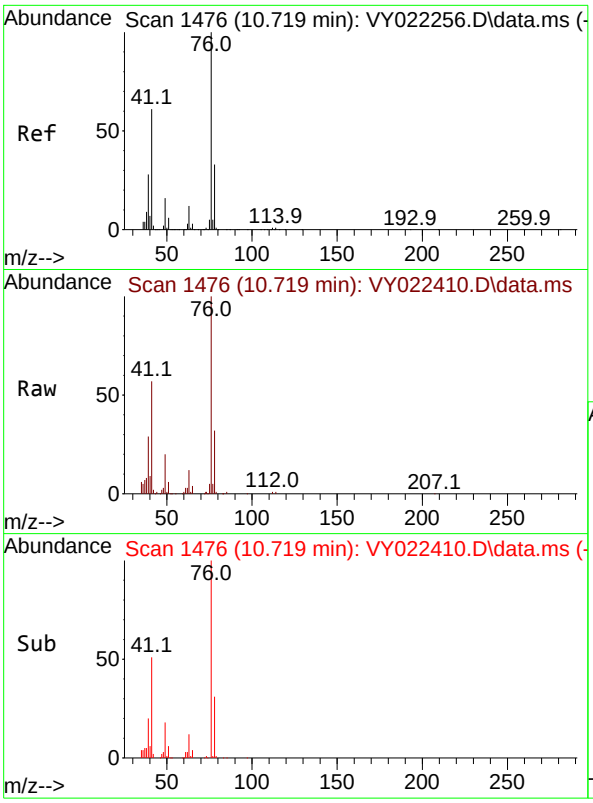


#56
Ethyl methacrylate
Concen: 18.941 ug/l
RT: 10.445 min Scan# 1431
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 69 Resp: 52121

Ion	Ratio	Lower	Upper
69	100		
41	65.8	56.5	84.7
39	44.0	37.1	55.7





#57
1,3-Dichloropropane
Concen: 19.679 ug/l
RT: 10.719 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 76 Resp: 6176

Ion	Ratio	Lower	Upper
76	100		
78	32.3	25.8	38.8

Instrument :
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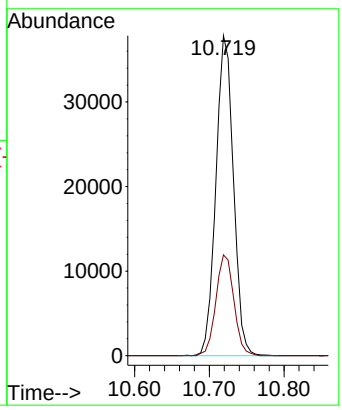
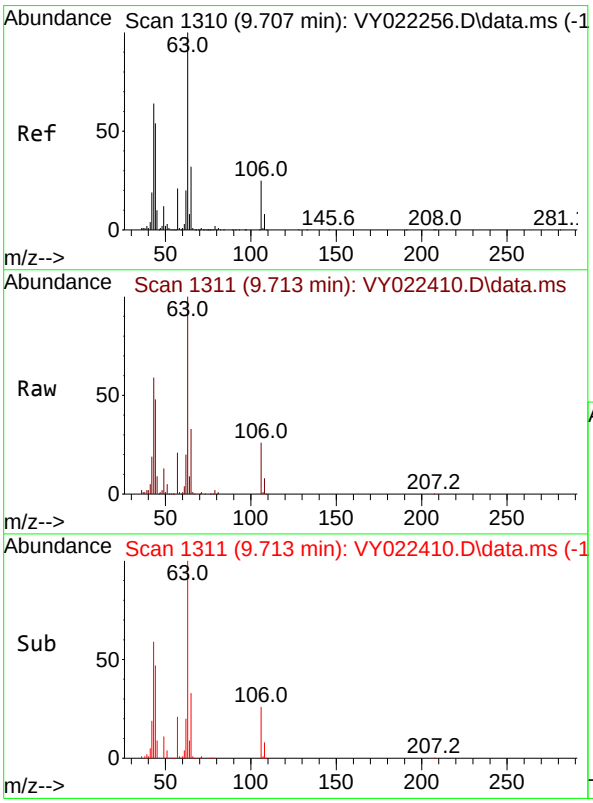
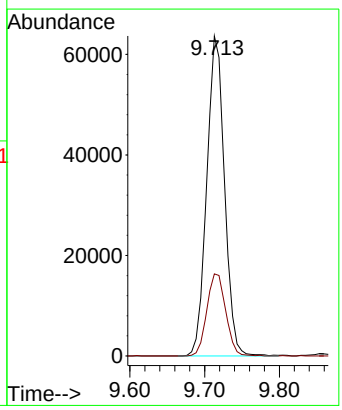


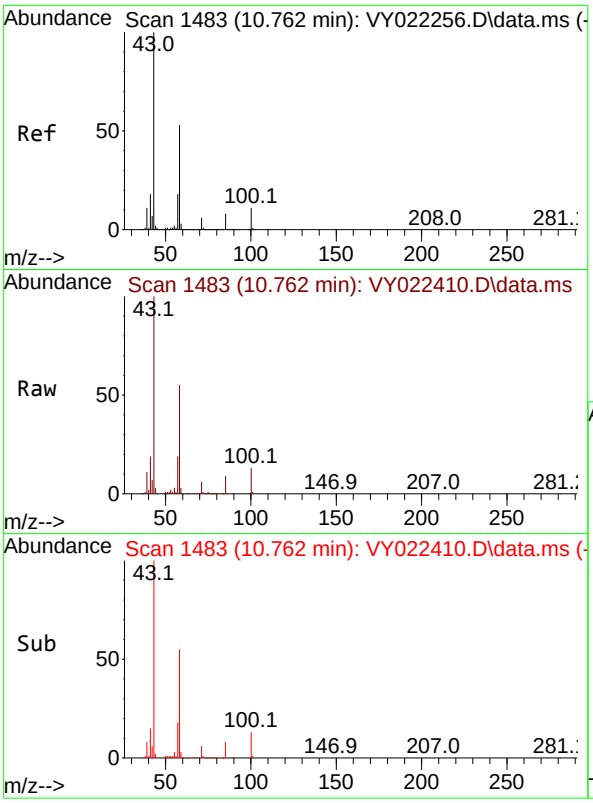


#58
2-Chloroethyl Vinyl ether
Concen: 85.253 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 63 Resp: 105296

Ion	Ratio	Lower	Upper
63	100		
106	27.2	21.0	31.4





#59
2-Hexanone
Concen: 95.289 ug/l
RT: 10.762 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 43 Resp: 11771

Ion	Ratio	Lower	Upper
43	100		
58	54.9	26.1	78.3

Instrument :
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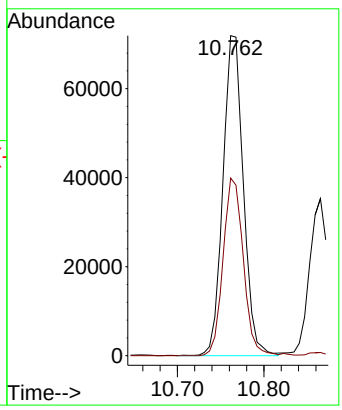
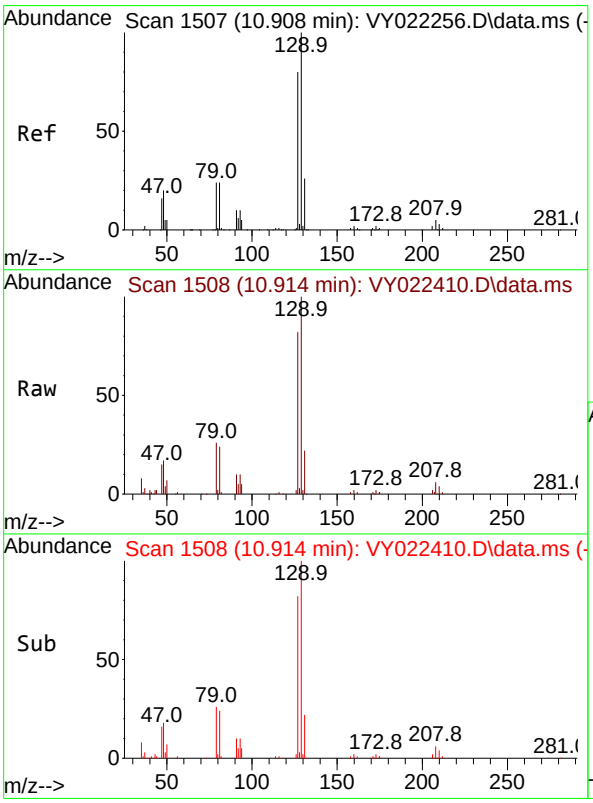
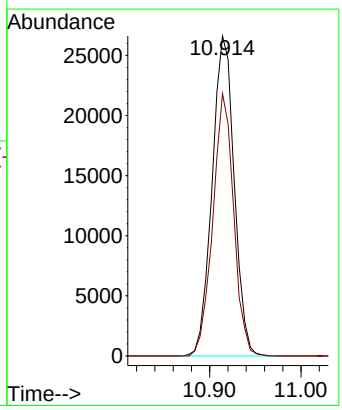


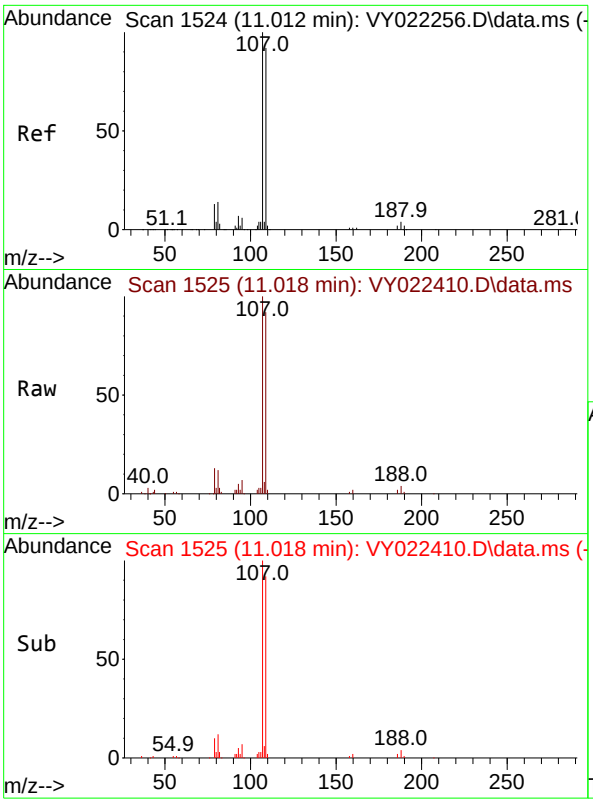


#60
Dibromochloromethane
Concen: 19.477 ug/l
RT: 10.914 min Scan# 1508
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion:129 Resp: 44658

Ion	Ratio	Lower	Upper
129	100		
127	77.2	38.6	115.7

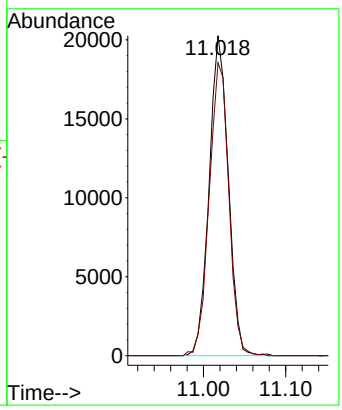




#61
1,2-Dibromoethane
Concen: 19.976 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion:107 Resp: 3288

Ion	Ratio	Lower	Upper
107	100		
109	93.4	74.6	111.8



Instrument :
MSVOA_Y
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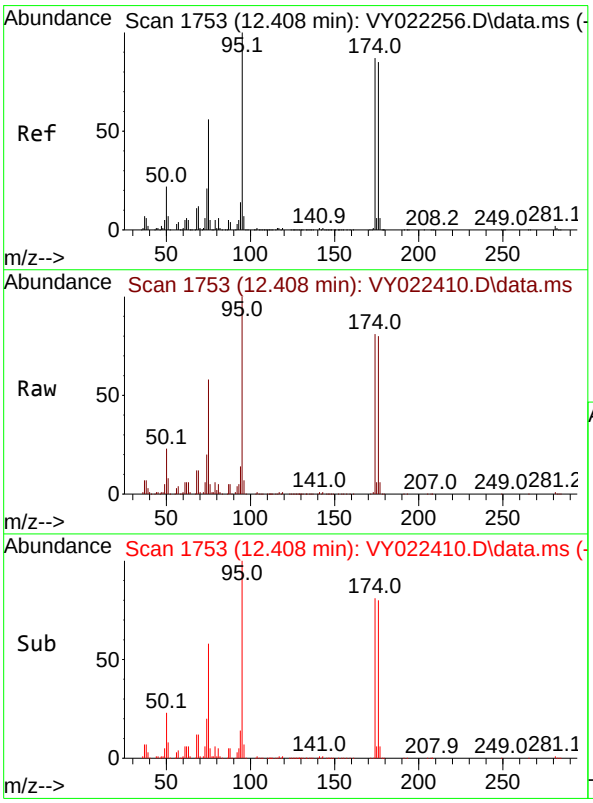
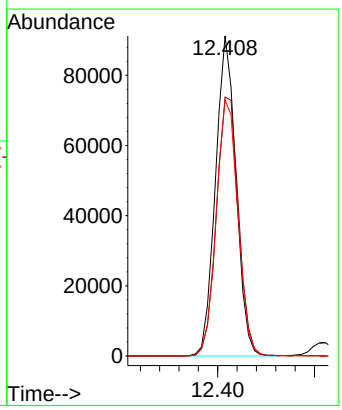
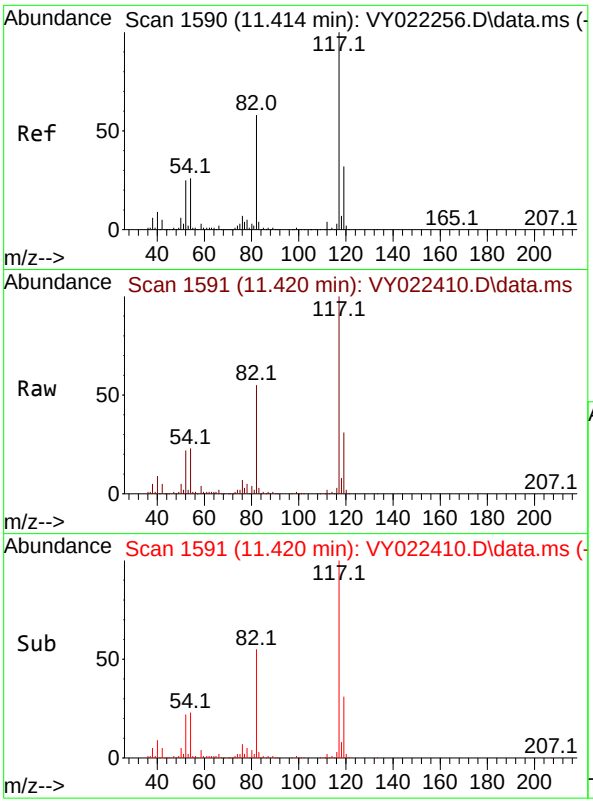


#62
4-Bromofluorobenzene
Concen: 47.495 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 95 Resp: 133958

Ion	Ratio	Lower	Upper
95	100		
174	87.6	0.0	166.8
176	84.7	0.0	160.8

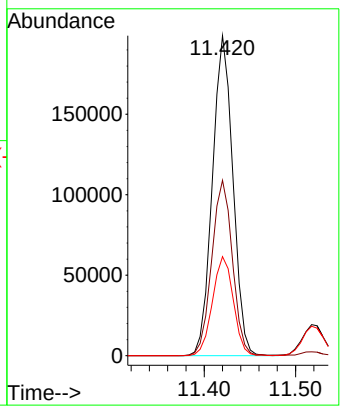




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion:117 Resp: 31010

Ion	Ratio	Lower	Upper
117	100		
82	54.8	46.6	70.0
119	31.0	25.8	38.6



Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

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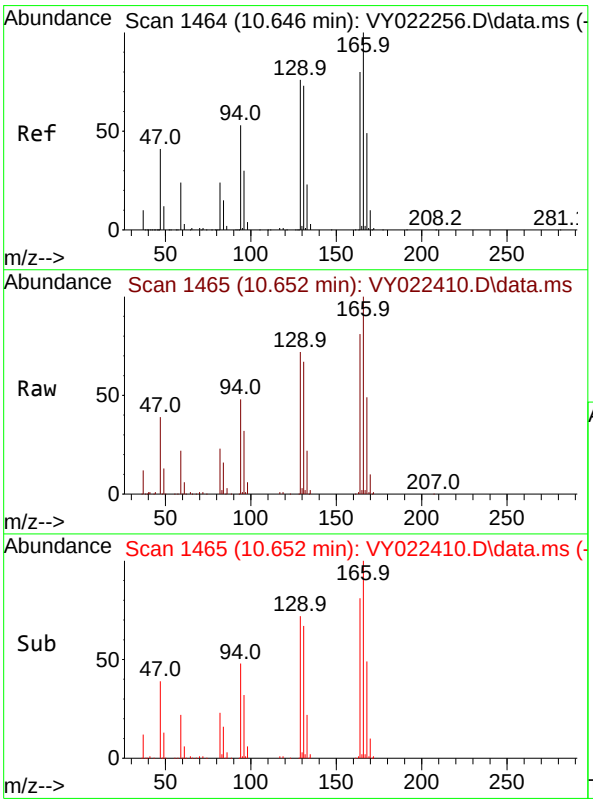
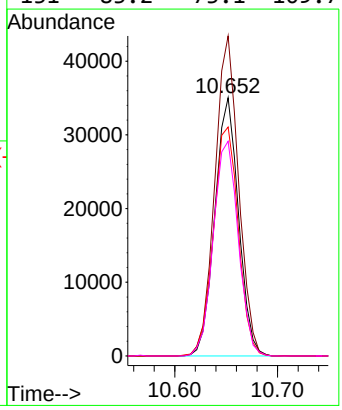
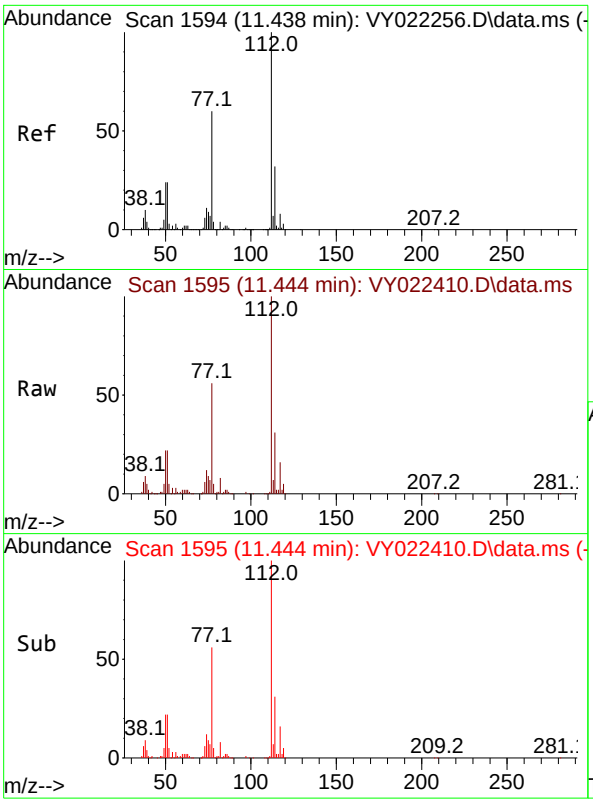


#64
Tetrachloroethene
Concen: 19.560 ug/l
RT: 10.652 min Scan# 1465
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion:164 Resp: 56065

Ion	Ratio	Lower	Upper
164	100		
166	123.9	100.4	150.6
129	88.7	76.4	114.6
131	83.2	73.1	109.7





#65
Chlorobenzene
Concen: 19.502 ug/l
RT: 11.444 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion:112 Resp: 13643

Ion	Ratio	Lower	Upper
112	100		
114	31.1	25.8	38.6

Instrument :
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ClientSampleId :
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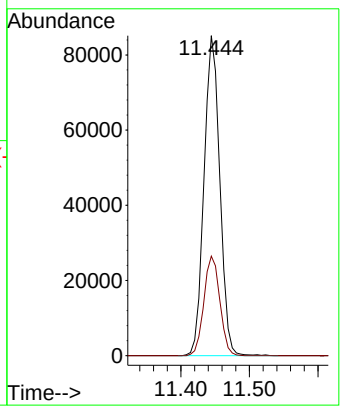
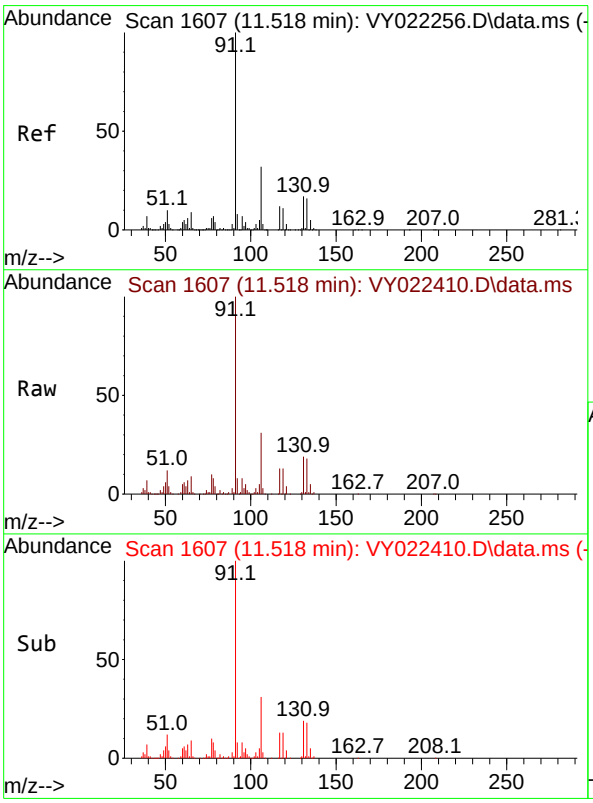
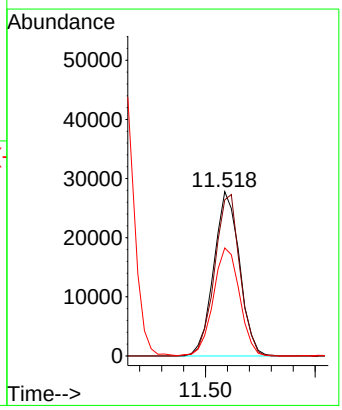


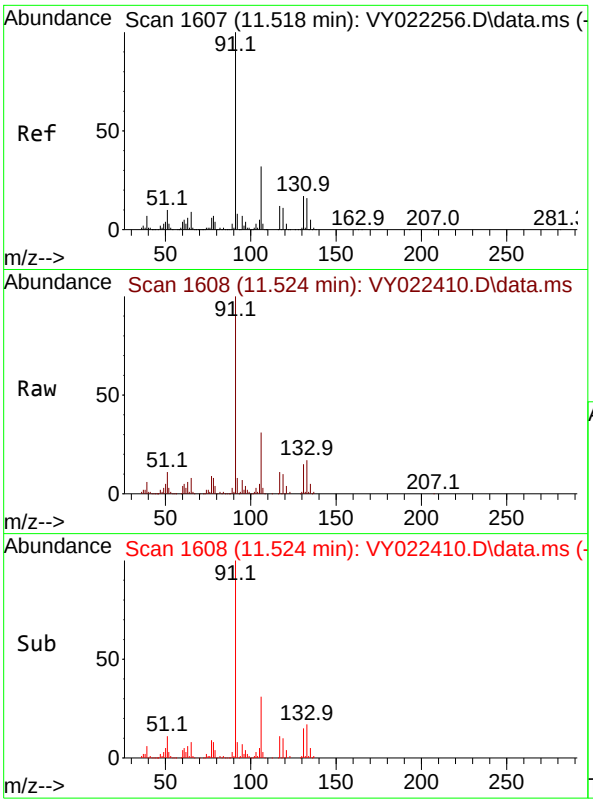


#66
1,1,1,2-Tetrachloroethane
Concen: 18.833 ug/l
RT: 11.518 min Scan# 1607
Delta R.T. 0.000 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion:131 Resp: 45297

Ion	Ratio	Lower	Upper
131	100		
133	96.6	47.3	141.9
119	67.2	33.1	99.2

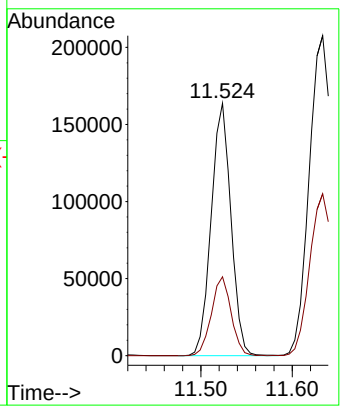




#67
Ethyl Benzene
Concen: 18.770 ug/l
RT: 11.524 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 91 Resp: 24594

Ion	Ratio	Lower	Upper
91	100		
106	31.2	25.4	38.0



Instrument :
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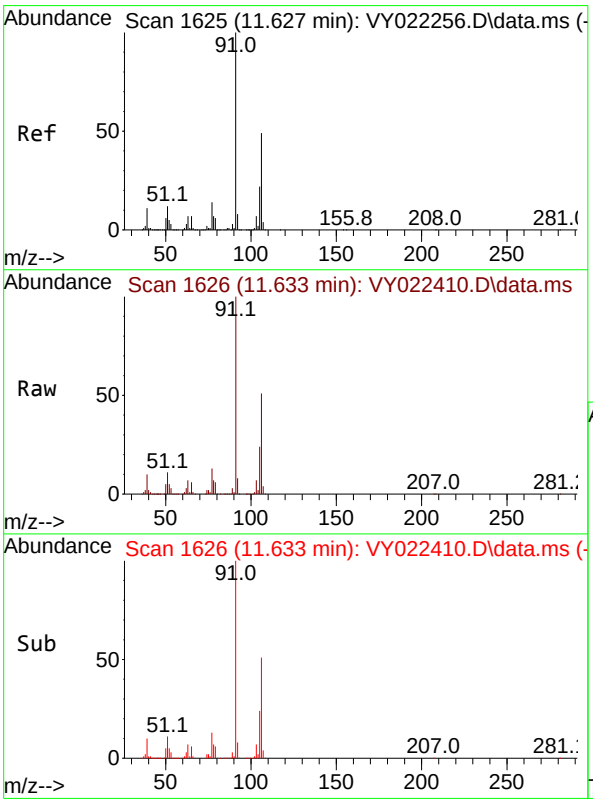
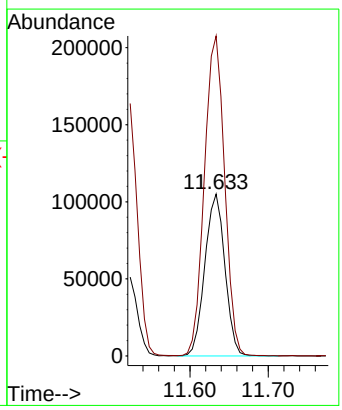
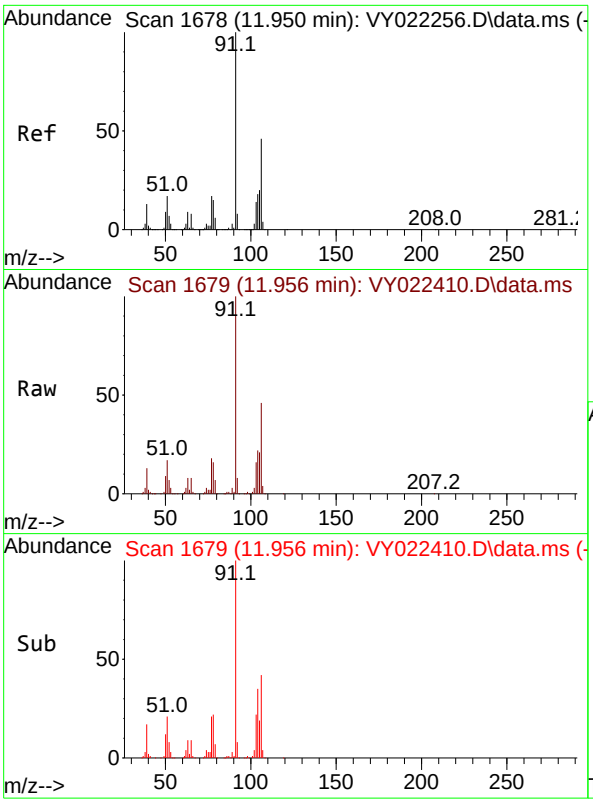


#68
m/p-Xylenes
Concen: 37.778 ug/l
RT: 11.633 min Scan# 1626
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion:106 Resp: 186520

Ion	Ratio	Lower	Upper
106	100		
91	199.7	163.0	244.4

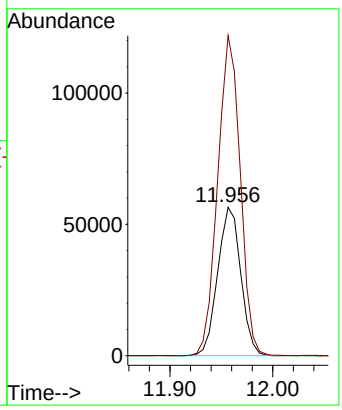




#69
o-Xylene
Concen: 18.862 ug/l
RT: 11.956 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion:106 Resp: 8811

Ion	Ratio	Lower	Upper
106	100		
91	211.0	108.3	324.8



Instrument :
MSVOA_Y
ClientSampleId :
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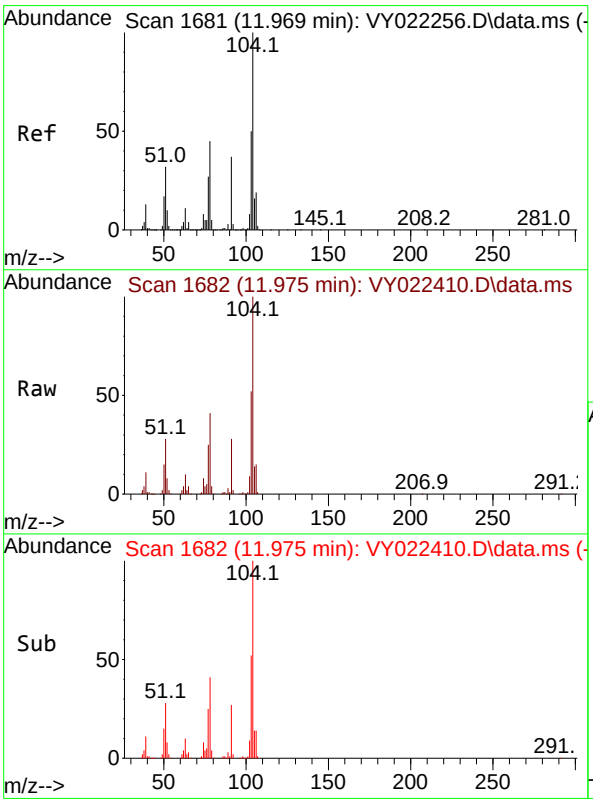
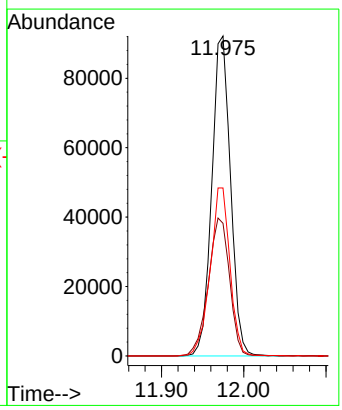
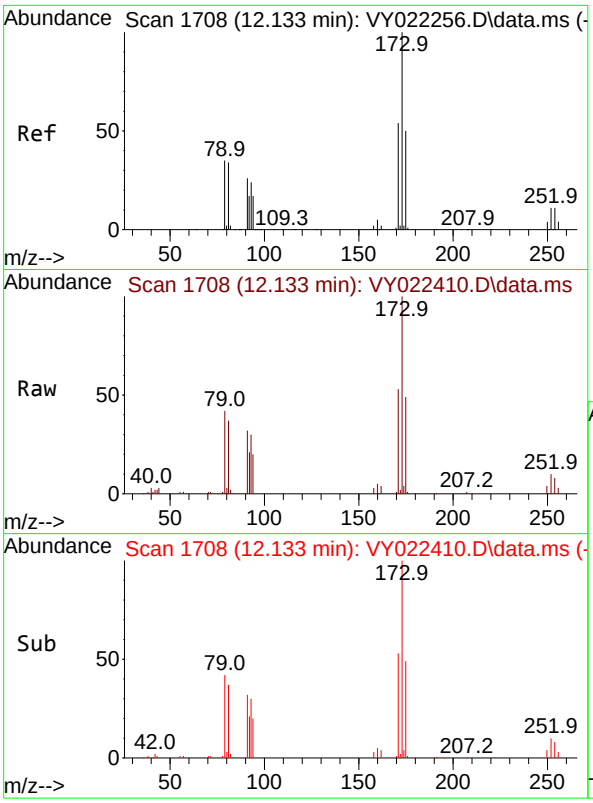


#70
Styrene
Concen: 18.533 ug/l
RT: 11.975 min Scan# 1682
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion:104 Resp: 146038

Ion	Ratio	Lower	Upper
104	100		
78	49.1	40.9	61.3
103	55.3	43.7	65.5

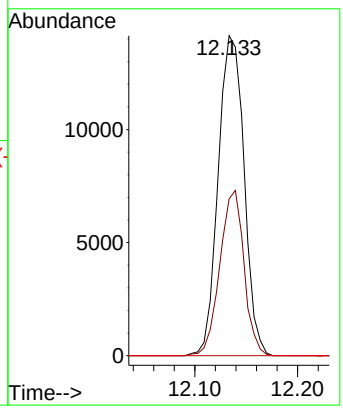




#71
Bromoform
Concen: 19.042 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion:173 Resp: 2472

Ion	Ratio	Lower	Upper
173	100		
175	48.3	24.7	74.1
254	0.0	0.0	0.0



Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

Manual Integrations
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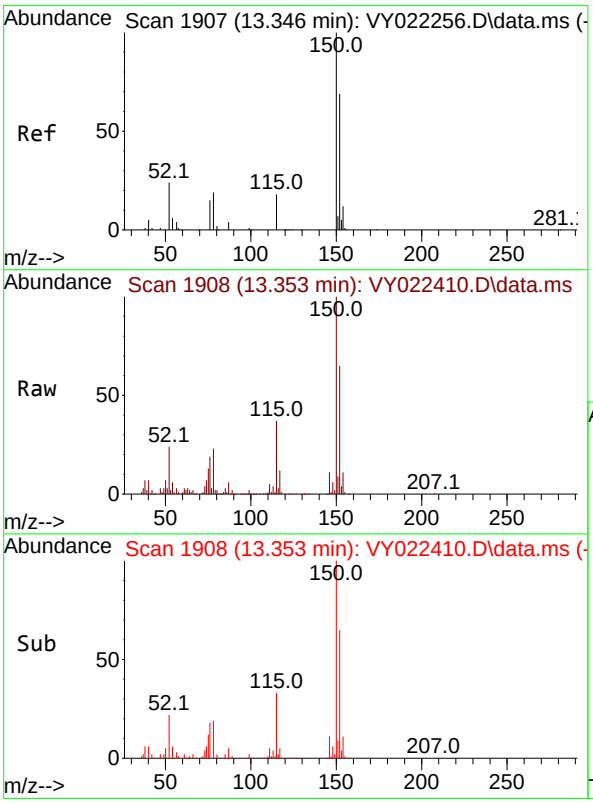
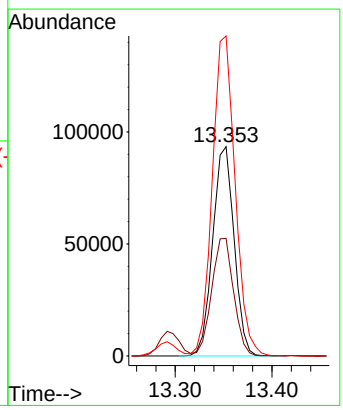
Reviewed By :Mahesh Dadoda 05/27/2025
Supervised By :Semsettin Yesilyurt 05/27/2025

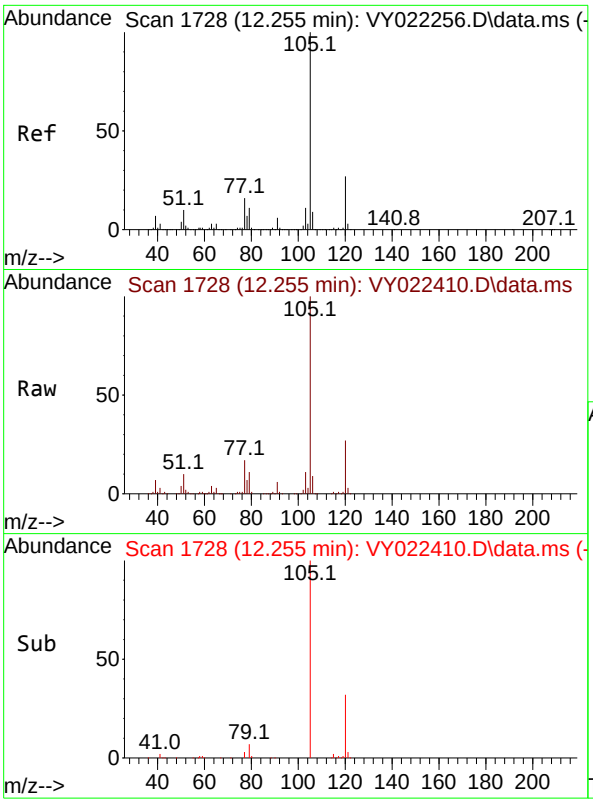


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.353 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion:152 Resp: 143885

Ion	Ratio	Lower	Upper
152	100		
115	57.8	29.4	88.2
150	162.8	0.0	353.8

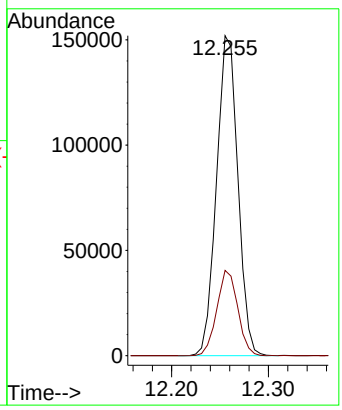




#73
Isopropylbenzene
Concen: 19.522 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion:105 Resp: 23270

Ion	Ratio	Lower	Upper
105	100		
120	26.1	13.2	39.6



Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

Manual Integrations
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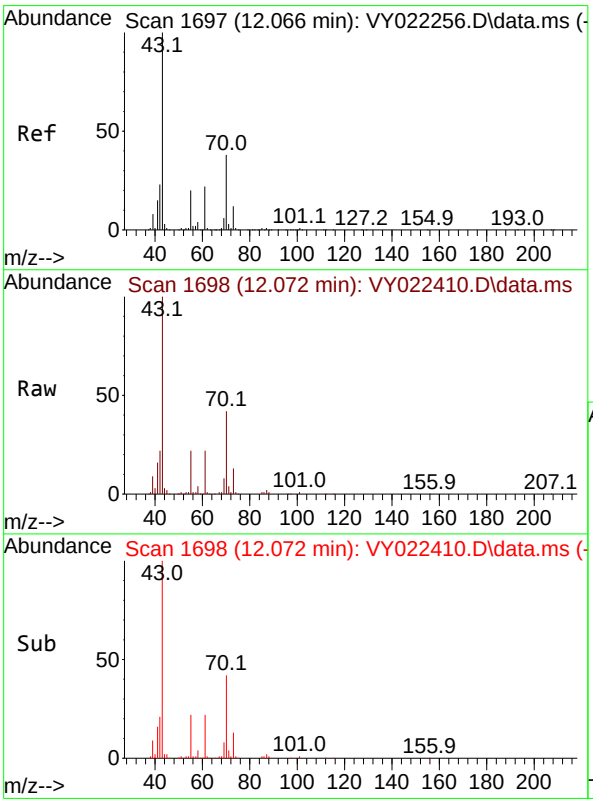
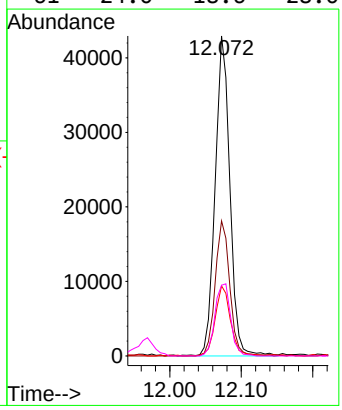
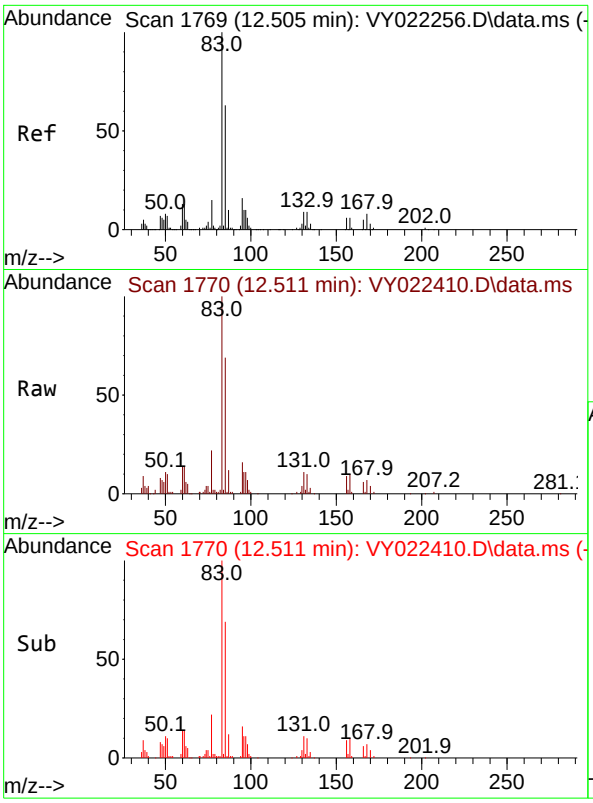


#74
N-amyl acetate
Concen: 18.045 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 43 Resp: 61518

Ion	Ratio	Lower	Upper
43	100		
70	41.7	31.4	47.0
55	22.8	17.0	25.6
61	24.0	18.6	28.0

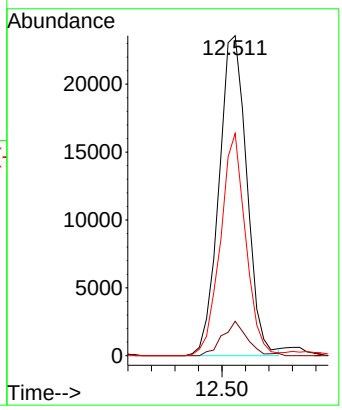




#75
1,1,2,2-Tetrachloroethane
Concen: 21.151 ug/l
RT: 12.511 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 83 Resp: 3877

Ion	Ratio	Lower	Upper
83	100		
131	9.7	4.9	14.7
85	63.2	32.0	96.0



Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

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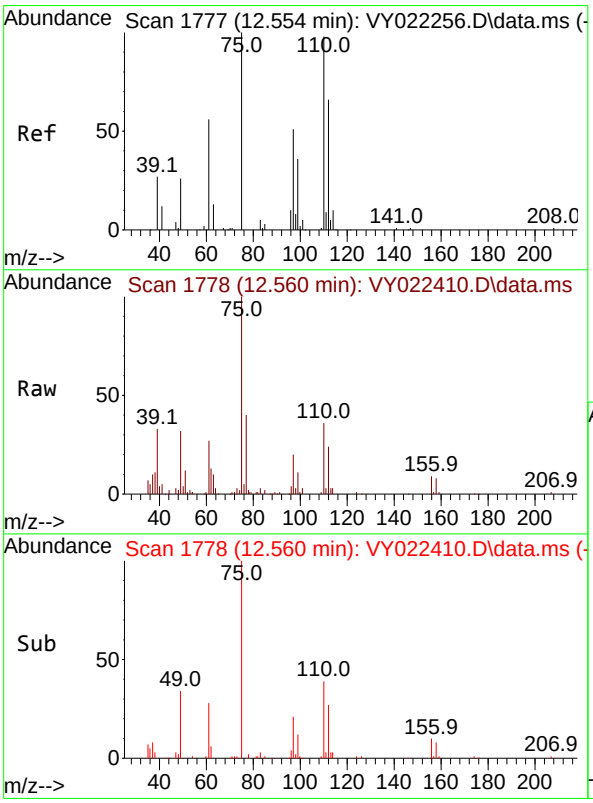
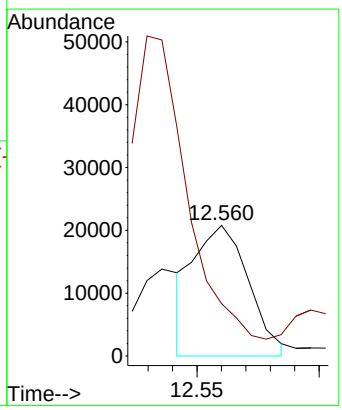
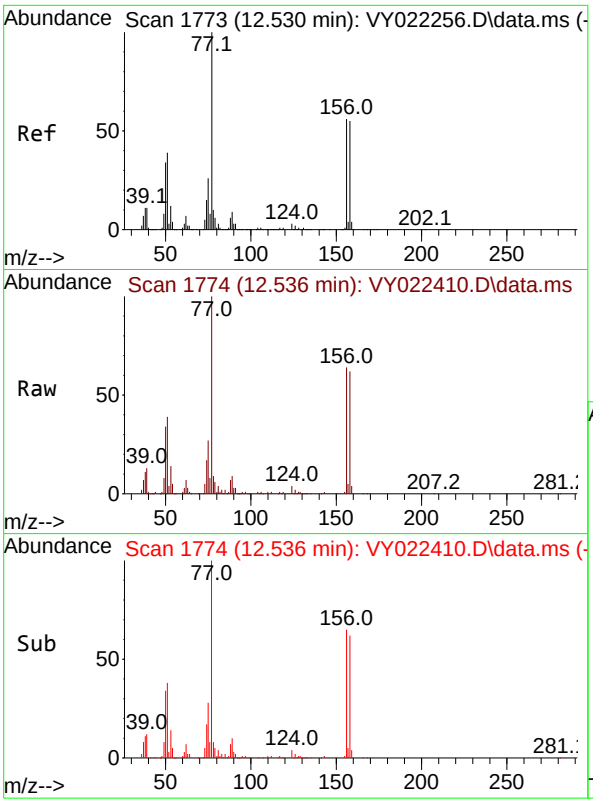


#76
1,2,3-Trichloropropane
Concen: 22.214 ug/l m
RT: 12.560 min Scan# 1778
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 75 Resp: 32382

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

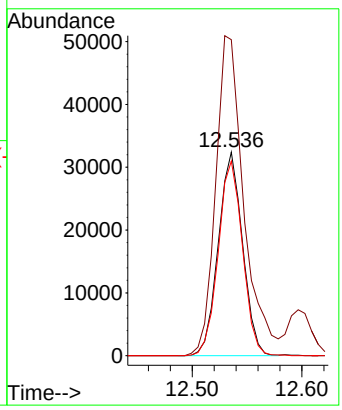




#77
Bromobenzene
Concen: 19.570 ug/l
RT: 12.536 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion:156 Resp: 4982

Ion	Ratio	Lower	Upper
156	100		
77	182.0	94.5	283.6
158	95.5	48.4	145.3



Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

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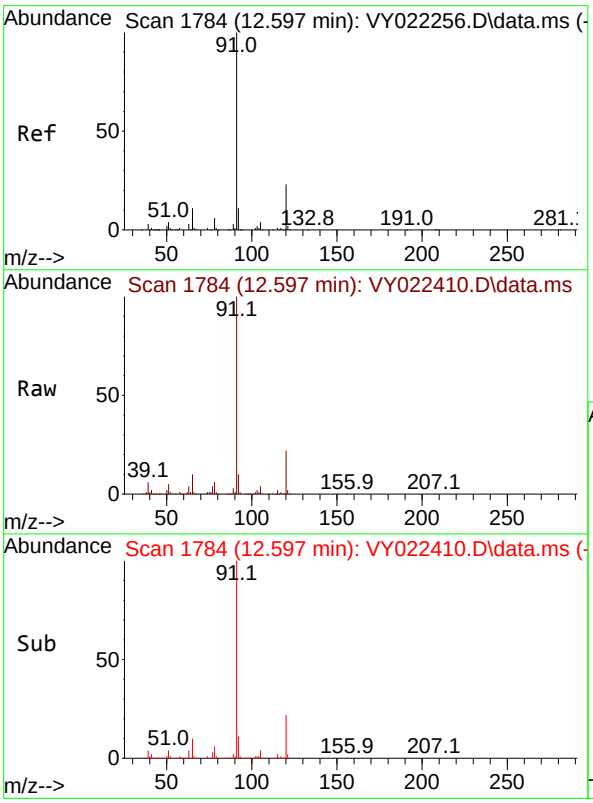
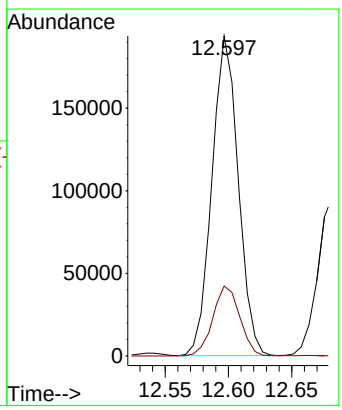
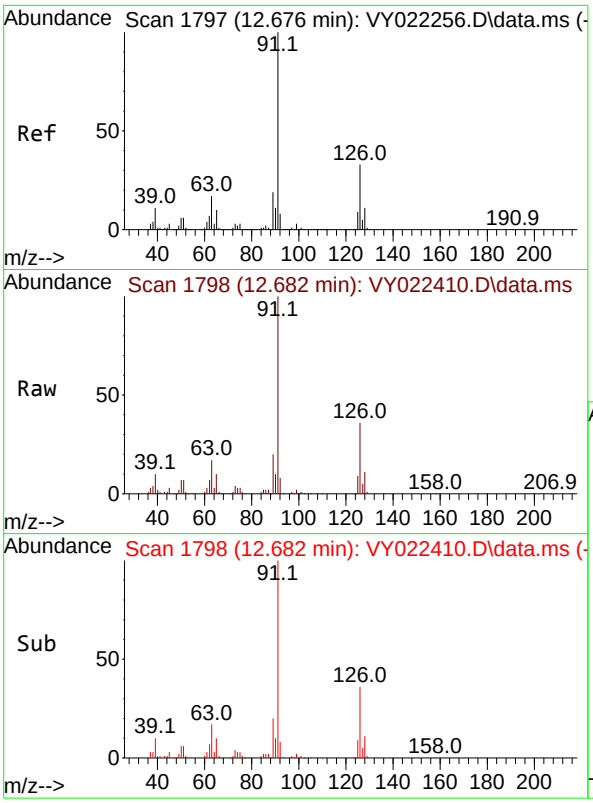


#78
n-propylbenzene
Concen: 19.466 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 91 Resp: 279878

Ion	Ratio	Lower	Upper
91	100		
120	22.3	11.1	33.3

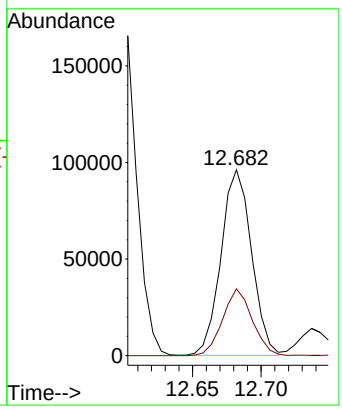




#79
2-Chlorotoluene
Concen: 18.862 ug/l
RT: 12.682 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 91 Resp: 14903

Ion	Ratio	Lower	Upper
91	100		
126	35.1	16.8	50.4



Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

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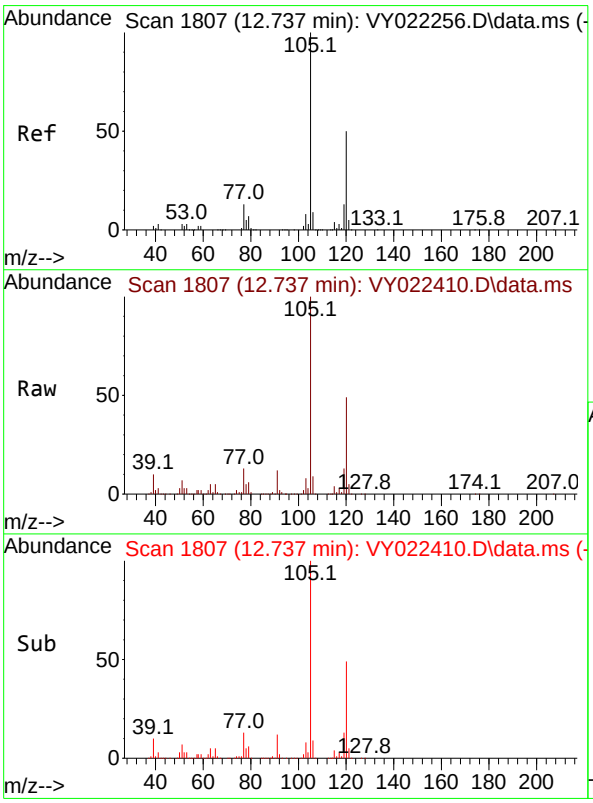
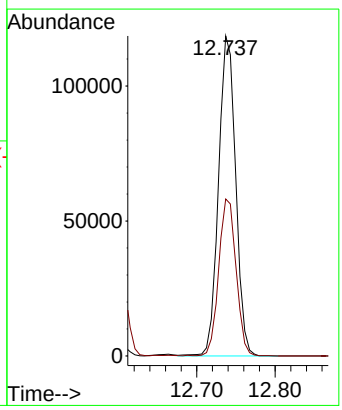
Supervised By :Semsettin Yesilyurt 05/27/2025

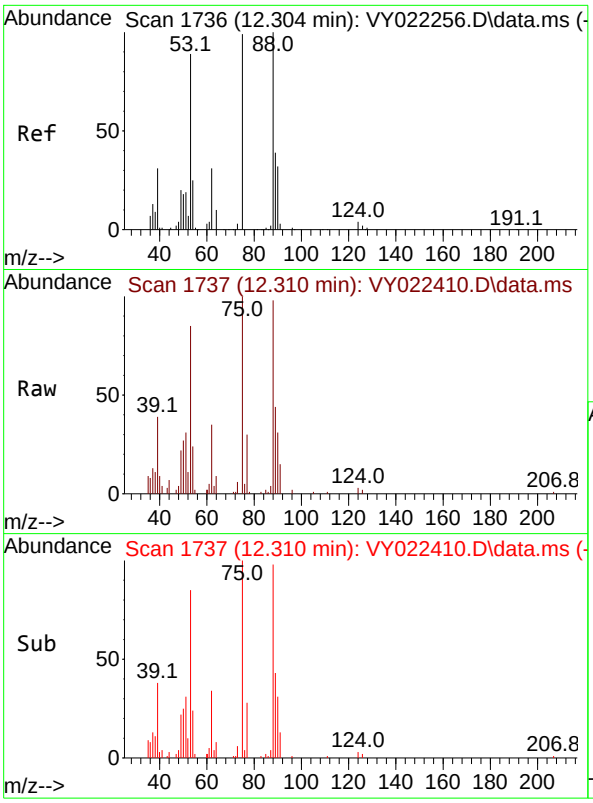


#80
1,3,5-Trimethylbenzene
Concen: 18.763 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion:105 Resp: 180541

Ion	Ratio	Lower	Upper
105	100		
120	49.8	24.2	72.6





#81
trans-1,4-Dichloro-2-butene
Concen: 19.084 ug/l
RT: 12.310 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 75 Resp: 1373

Ion	Ratio	Lower	Upper
75	100		
53	88.2	75.8	113.8
89	43.8	36.2	54.2

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

Manual Integrations
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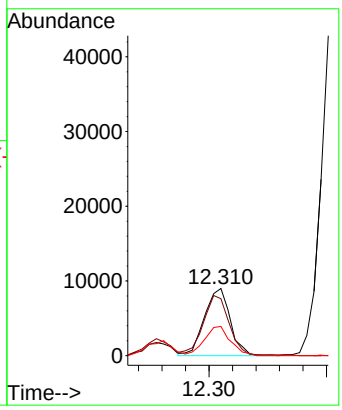
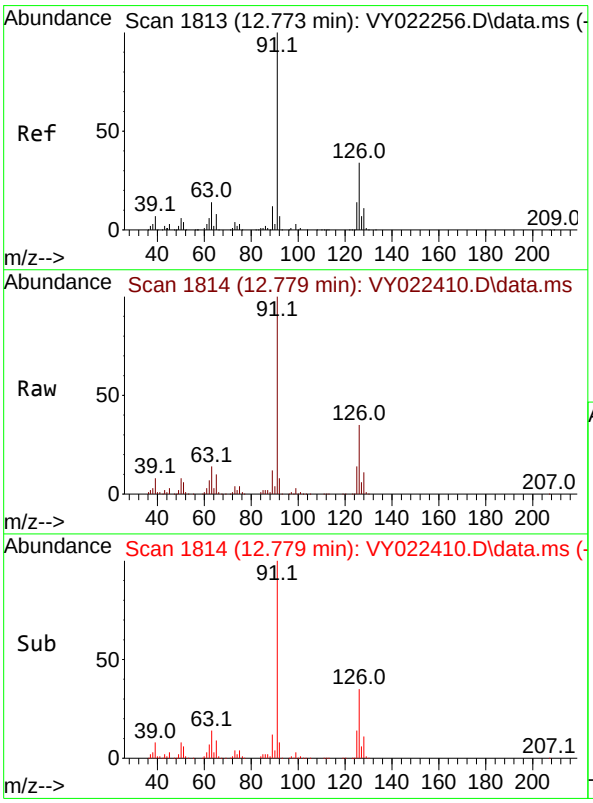
Reviewed By :Mahesh Dadoda 05/27/2025
Supervised By :Semsettin Yesilyurt 05/27/2025

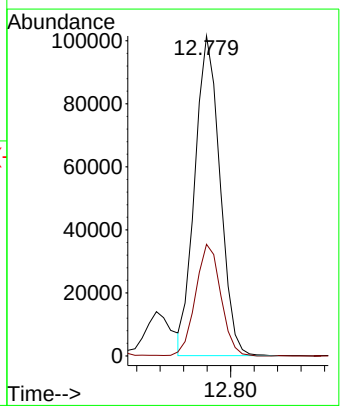


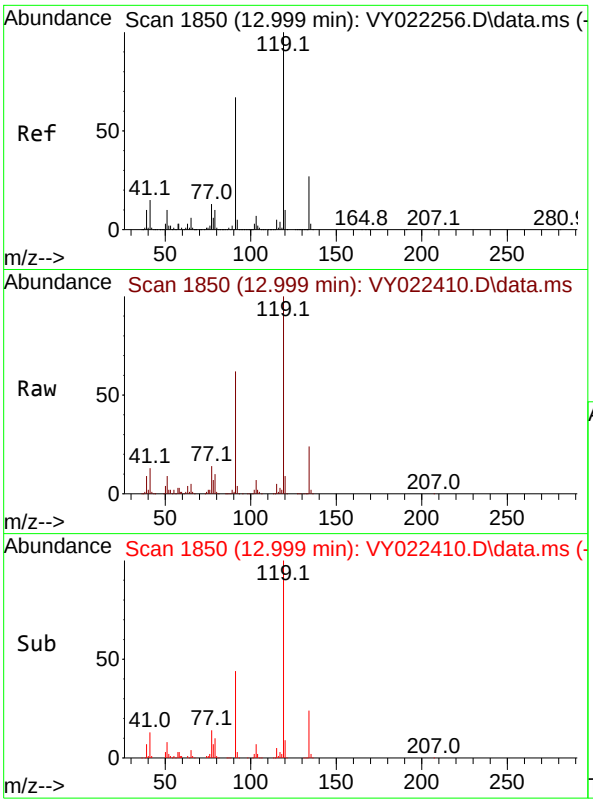


#82
4-Chlorotoluene
Concen: 18.501 ug/l
RT: 12.779 min Scan# 1814
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 91 Resp: 150359

Ion	Ratio	Lower	Upper
91	100		
126	35.1	16.8	50.4





#83
tert-Butylbenzene
Concen: 19.152 ug/l
RT: 12.999 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion:119 Resp: 16380

Ion	Ratio	Lower	Upper
119	100		
91	64.3	32.8	98.3
134	26.0	12.9	38.6

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

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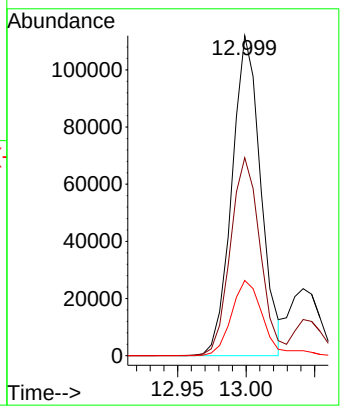
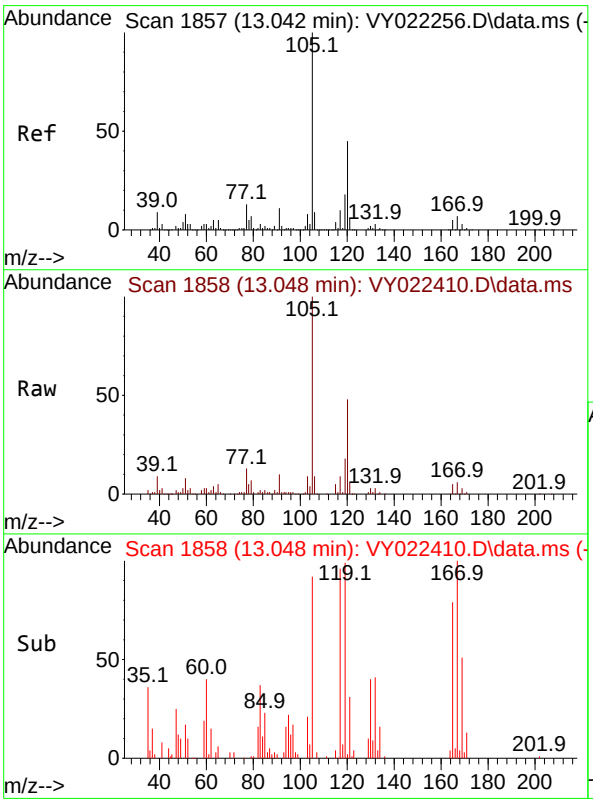
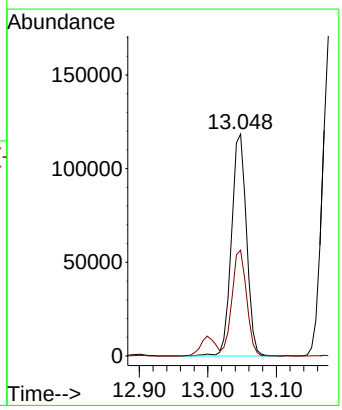


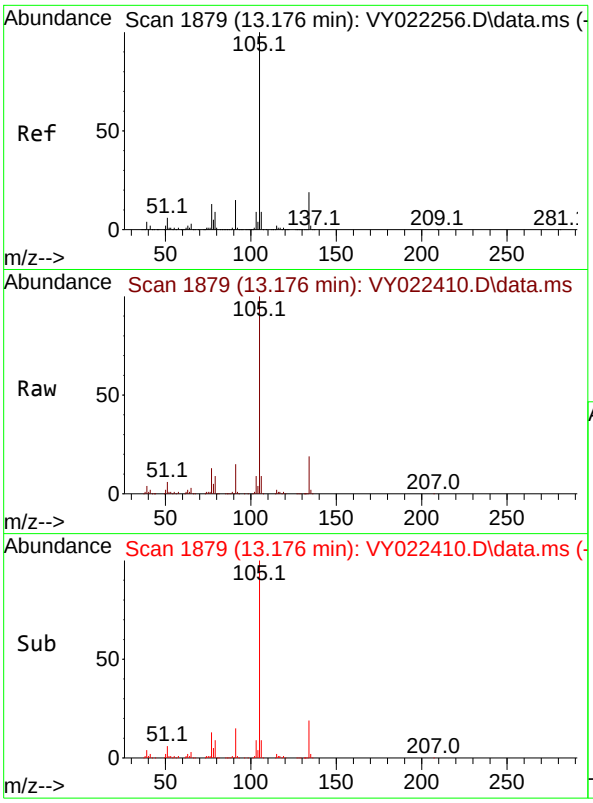


#84
1,2,4-Trimethylbenzene
Concen: 18.876 ug/l
RT: 13.048 min Scan# 1858
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion:105 Resp: 180298

Ion	Ratio	Lower	Upper
105	100		
120	46.6	22.3	66.9





#85
sec-Butylbenzene
Concen: 19.763 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion:105 Resp: 25090

Ion	Ratio	Lower	Upper
105	100		
134	19.5	9.8	29.5

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

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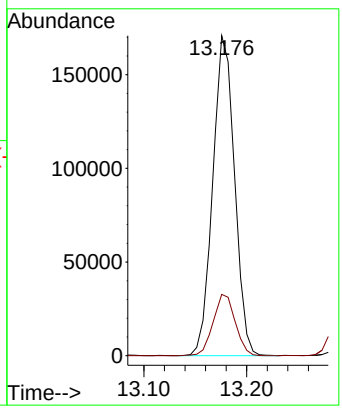
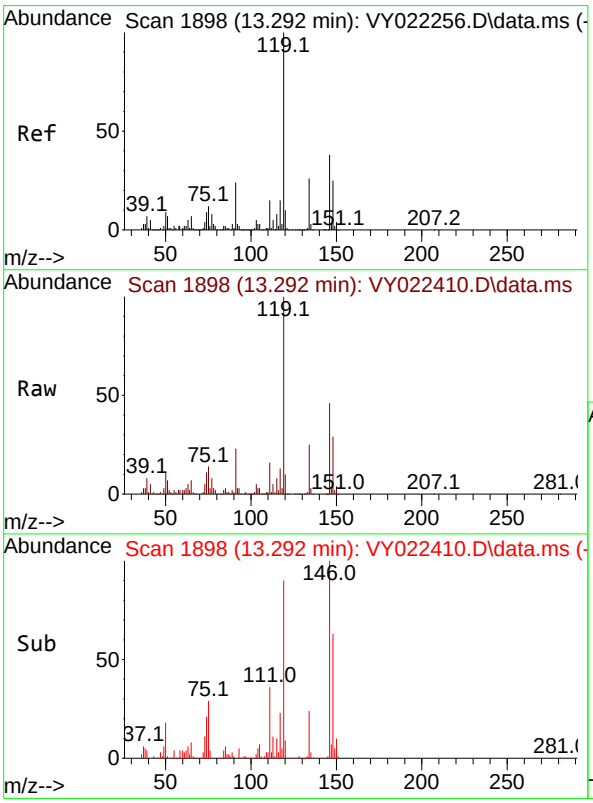
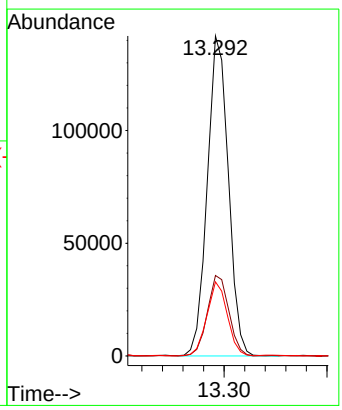


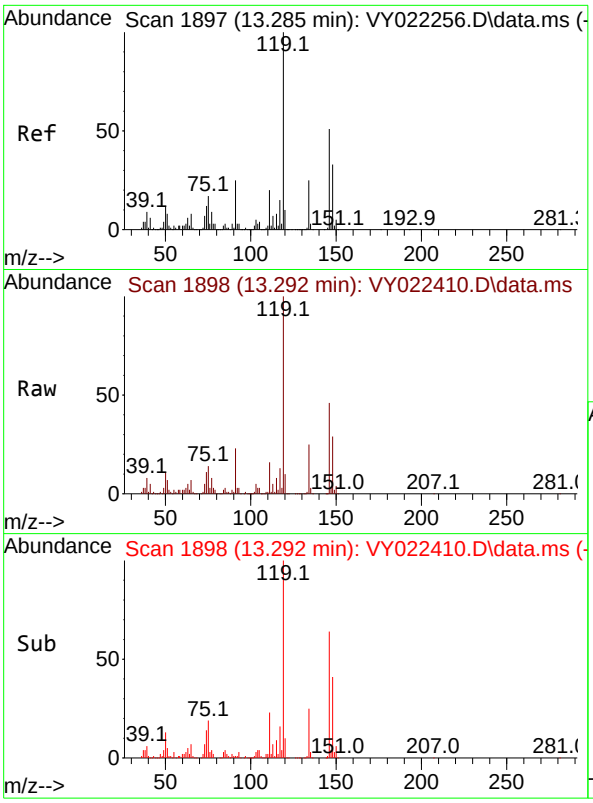


#86
p-Isopropyltoluene
Concen: 18.911 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.000 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion:119 Resp: 201925

Ion	Ratio	Lower	Upper
119	100		
134	25.6	12.9	38.6
91	22.4	12.1	36.3





#87
1,3-Dichlorobenzene
Concen: 18.887 ug/l
RT: 13.292 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion:146 Resp: 9816

Ion	Ratio	Lower	Upper
146	100		
111	38.5	19.9	59.7
148	63.5	31.9	95.7

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

Manual Integrations
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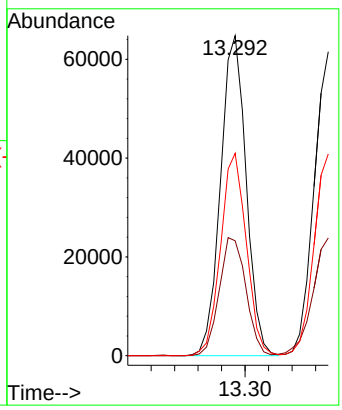
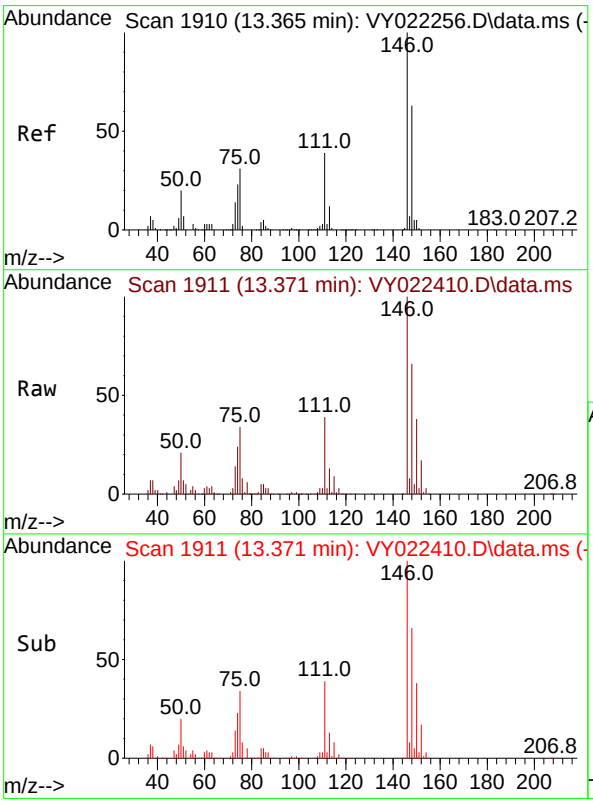
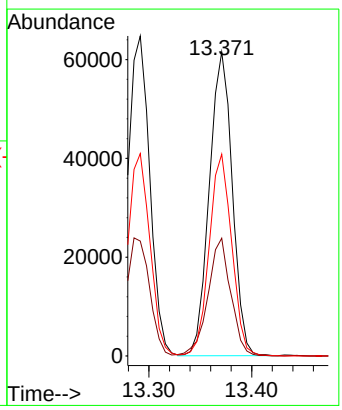


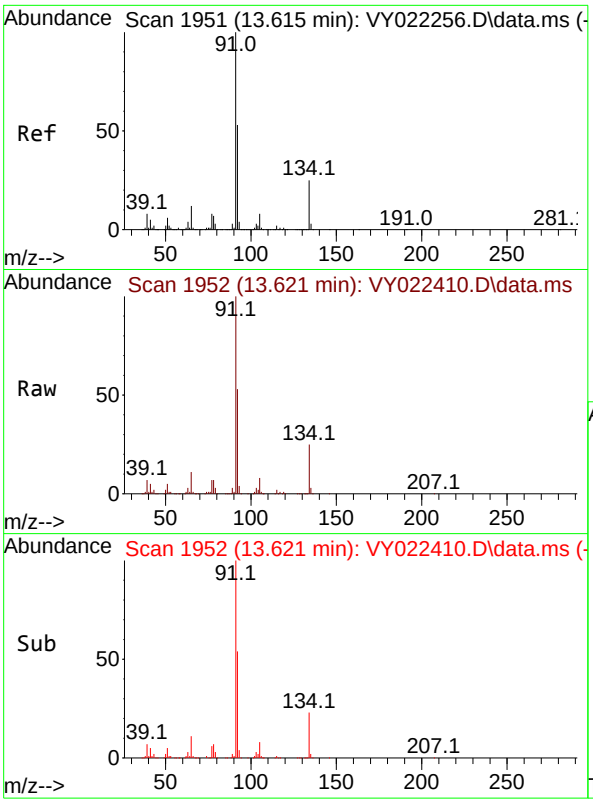


#88
1,4-Dichlorobenzene
Concen: 19.082 ug/l
RT: 13.371 min Scan# 1911
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion:146 Resp: 95398

Ion	Ratio	Lower	Upper
146	100		
111	38.7	20.0	59.9
148	65.4	32.1	96.5

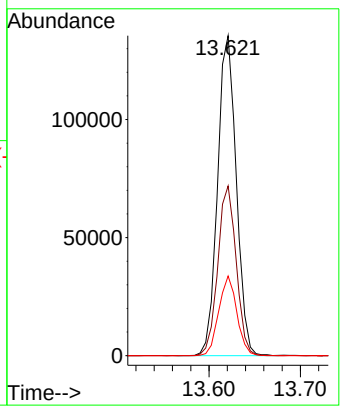




#89
n-Butylbenzene
Concen: 19.096 ug/l
RT: 13.621 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 91 Resp: 19290

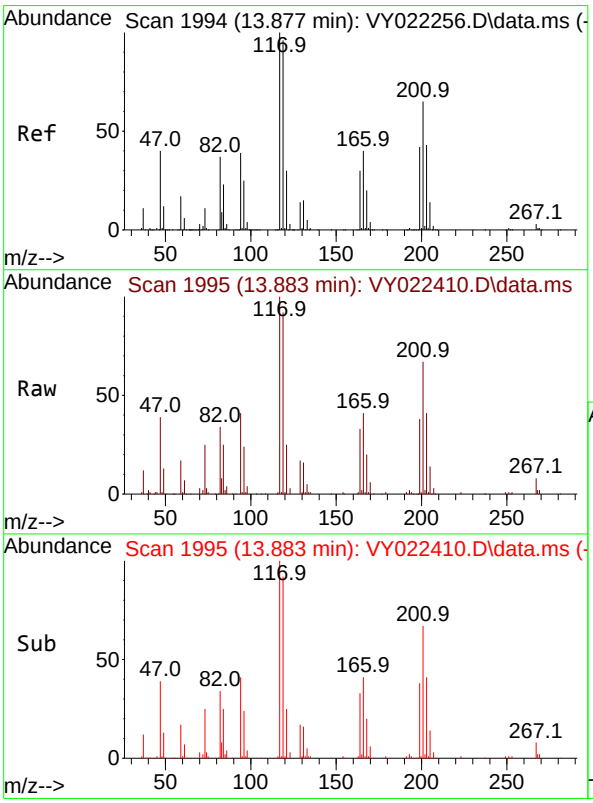
Ion	Ratio	Lower	Upper
91	100		
92	52.3	26.3	78.9
134	24.1	12.4	37.4



Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

Manual Integrations
APPROVED

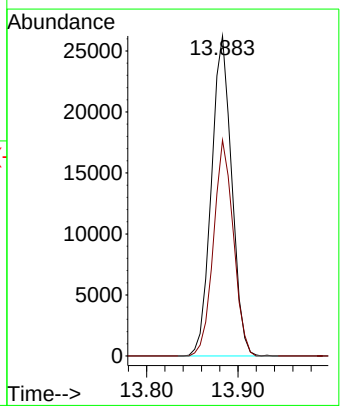
Reviewed By :Mahesh Dadoda 05/27/2025
Supervised By :Semsettin Yesilyurt 05/27/2025

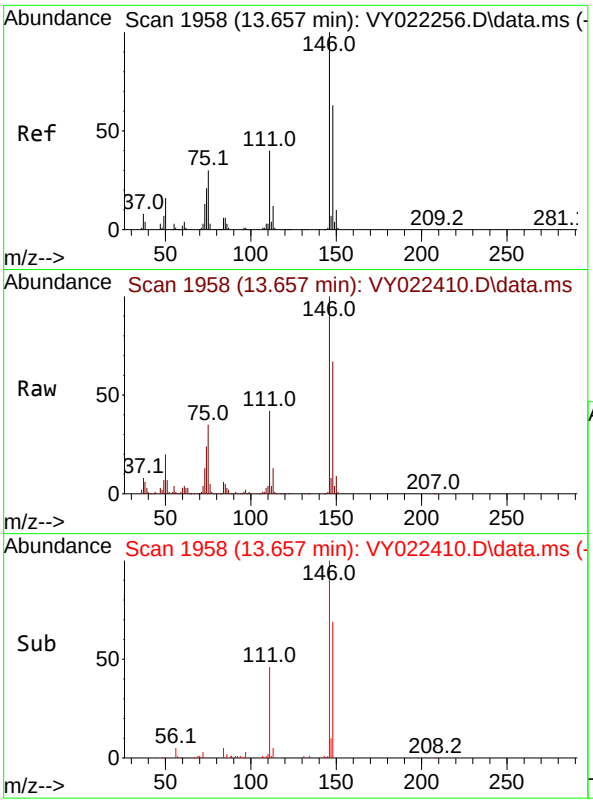


#90
Hexachloroethane
Concen: 18.768 ug/l
RT: 13.883 min Scan# 1995
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion:117 Resp: 40452

Ion	Ratio	Lower	Upper
117	100		
201	66.1	35.2	105.6

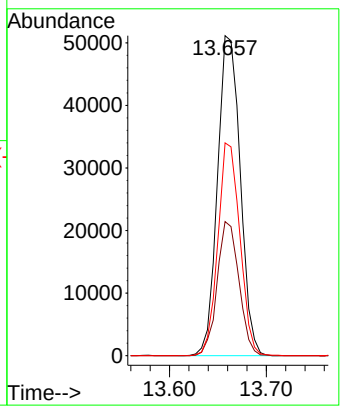




#91
1,2-Dichlorobenzene
Concen: 19.092 ug/l
RT: 13.657 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion:146 Resp: 8334

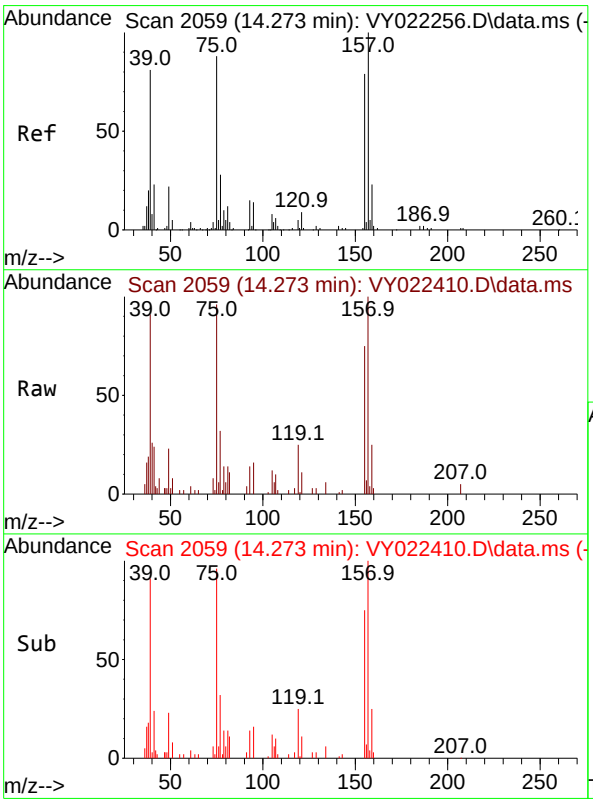
Ion	Ratio	Lower	Upper
146	100		
111	40.2	20.5	61.5
148	64.4	32.0	96.0



Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

Manual Integrations
APPROVED

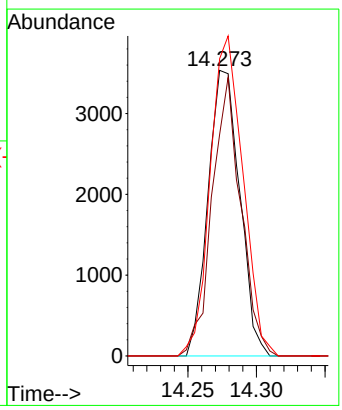
Reviewed By :Mahesh Dadoda 05/27/2025
Supervised By :Semsettin Yesilyurt 05/27/2025

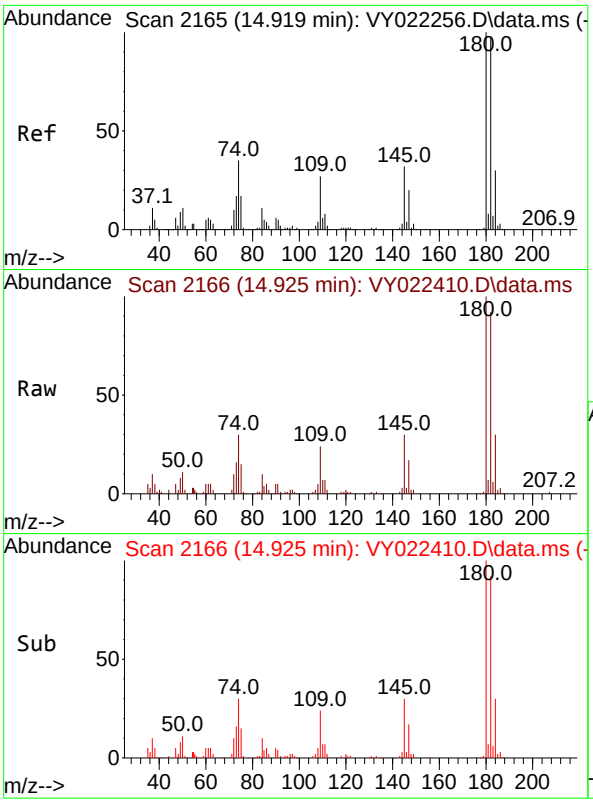


#92
1,2-Dibromo-3-Chloropropane
Concen: 19.214 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.000 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 75 Resp: 5680

Ion	Ratio	Lower	Upper
75	100		
155	88.9	43.4	130.1
157	115.7	54.6	163.9

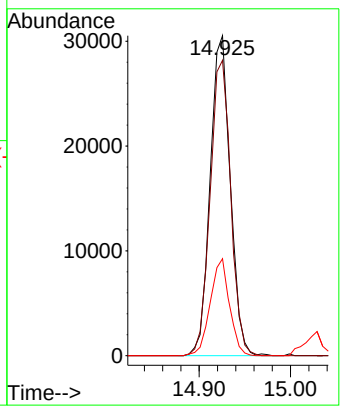




#93
1,2,4-Trichlorobenzene
Concen: 18.451 ug/l
RT: 14.925 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion:180 Resp: 4652

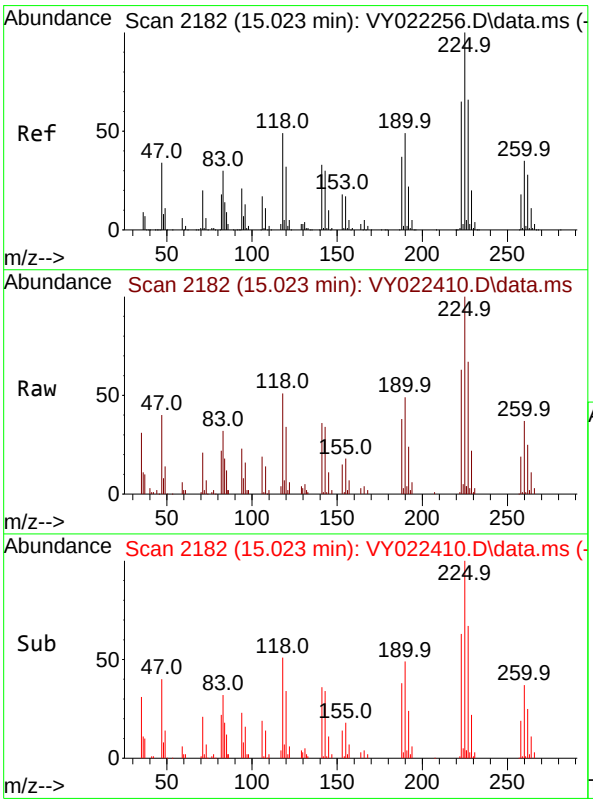
Ion	Ratio	Lower	Upper
180	100		
182	94.7	48.0	144.0
145	29.0	15.0	45.1



Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

Manual Integrations
APPROVED

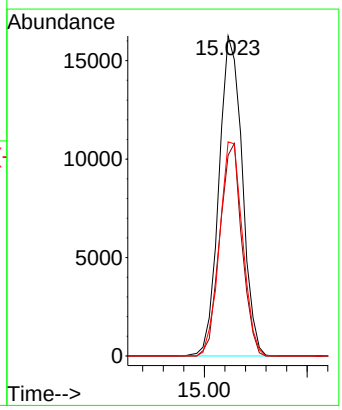
Reviewed By :Mahesh Dadoda 05/27/2025
Supervised By :Semsettin Yesilyurt 05/27/2025

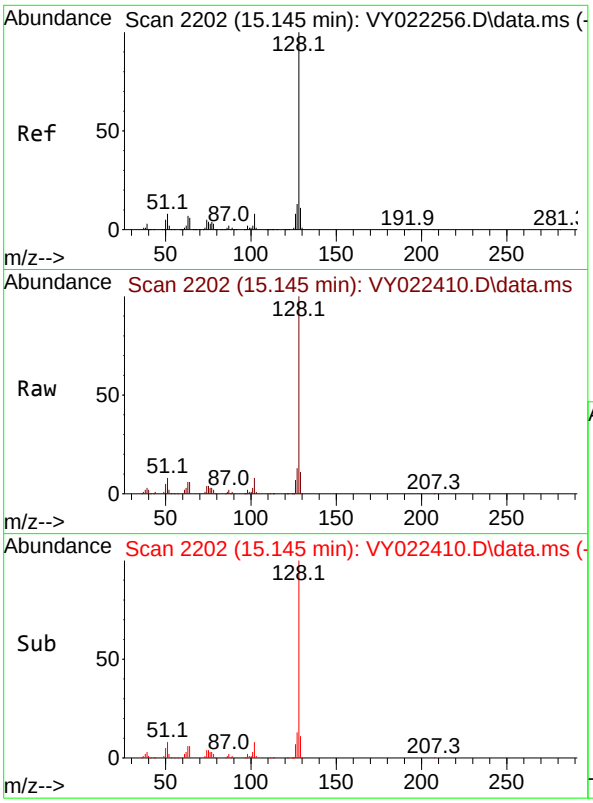


#94
Hexachlorobutadiene
Concen: 18.116 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.000 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion:225 Resp: 25477

Ion	Ratio	Lower	Upper
225	100		
223	63.2	31.5	94.5
227	66.4	32.1	96.3

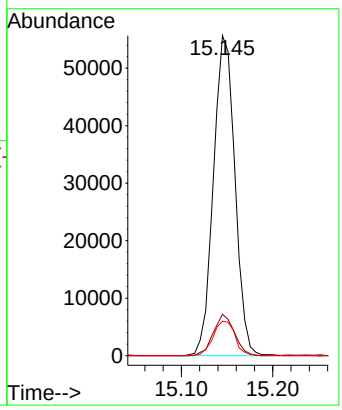




#95
Naphthalene
Concen: 19.025 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion:128 Resp: 9104

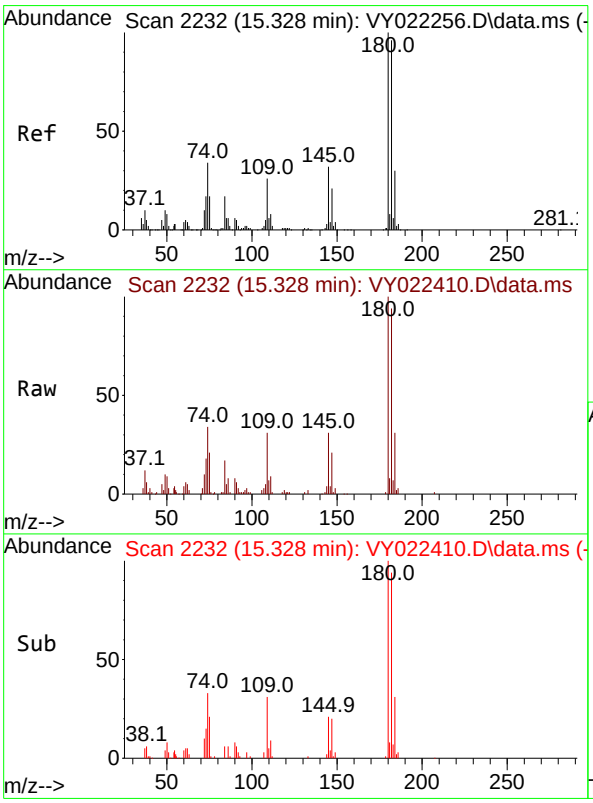
Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.2	15.2
129	11.0	8.8	13.2



Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

Manual Integrations
APPROVED

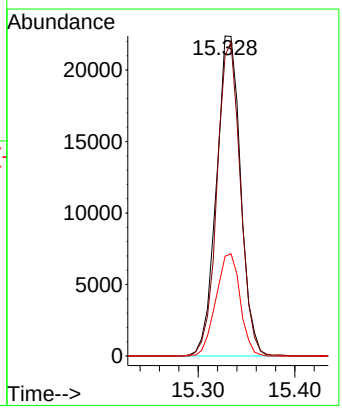
Reviewed By :Mahesh Dadoda 05/27/2025
Supervised By :Semsettin Yesilyurt 05/27/2025



#96
1,2,3-Trichlorobenzene
Concen: 18.117 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. 0.000 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion:180 Resp: 38757

Ion	Ratio	Lower	Upper
180	100		
182	94.5	47.1	141.3
145	32.1	15.9	47.6



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Manual Integration Report

Sequence:	VX050525	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC020	VX046041.D	1,2,3-Trichloropropane	JOHN	5/6/2025 9:53:13 AM	MMDadoda	5/6/2025 12:42:46 PM	Peak Integrated by Software
VSTDICCC050	VX046042.D	1,2,3-Trichloropropane	JOHN	5/6/2025 9:53:18 AM	MMDadoda	5/6/2025 12:42:48 PM	Peak Integrated by Software
VSTDICC100	VX046043.D	1,2,3-Trichloropropane	JOHN	5/6/2025 9:53:22 AM	MMDadoda	5/6/2025 12:42:50 PM	Peak Integrated by Software
VSTDICC150	VX046044.D	1,2,3-Trichloropropane	JOHN	5/6/2025 9:53:27 AM	MMDadoda	5/6/2025 12:42:53 PM	Peak Integrated by Software
VSTDICC005	VX046046.D	1,2,3-Trichloropropane	JOHN	5/6/2025 9:53:32 AM	MMDadoda	5/6/2025 12:42:56 PM	Peak Integrated by Software
VSTDICC005	VX046046.D	Ethyl Acetate	JOHN	5/6/2025 9:53:32 AM	MMDadoda	5/6/2025 12:42:56 PM	Peak Integrated by Software
VSTDICC001	VX046047.D	1,2,3-Trichloropropane	JOHN	5/6/2025 9:53:38 AM	MMDadoda	5/6/2025 12:41:35 PM	Peak Integrated by Software
VSTDICC001	VX046047.D	1,4-Dichlorobenzene	JOHN	5/6/2025 9:53:38 AM	MMDadoda	5/6/2025 12:41:35 PM	Peak Integrated by Software
VSTDICC001	VX046047.D	Bromochloromethane	JOHN	5/6/2025 9:53:38 AM	MMDadoda	5/6/2025 12:41:35 PM	Peak Integrated by Software
VSTDICC001	VX046047.D	Ethyl Acetate	JOHN	5/6/2025 9:53:38 AM	MMDadoda	5/6/2025 12:41:35 PM	Peak Integrated by Software
VSTDICC001	VX046047.D	Methyl methacrylate	JOHN	5/6/2025 9:53:38 AM	MMDadoda	5/6/2025 12:41:35 PM	Peak Integrated by Software
VSTDICV050	VX046048.D	1,2,3-Trichloropropane	JOHN	5/6/2025 9:53:45 AM	MMDadoda	5/6/2025 12:41:37 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VX050525	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

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

Manual Integration Report

Sequence:	vx052325	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VX046331.D	1,2,3-Trichloropropane	SAM	5/26/2025 5:41:51 AM	MMDadoda	5/26/2025 5:43:38 AM	Peak Integrated by Software
VSTDCCC050	VX046331.D	Methacrylonitrile	SAM	5/26/2025 5:41:51 AM	MMDadoda	5/26/2025 5:43:38 AM	Peak Integrated by Software
VX0523WBS01	VX046334.D	1,2,3-Trichloropropane	SAM	5/26/2025 5:41:54 AM	MMDadoda	5/26/2025 5:43:41 AM	Peak Integrated by Software
VX0523WBSD01	VX046337.D	1,2,3-Trichloropropane	SAM	5/26/2025 5:42:00 AM	MMDadoda	5/26/2025 5:43:45 AM	Peak Integrated by Software
VSTDCCC050	VX046357.D	1,2,3-Trichloropropane	SAM	5/26/2025 5:42:03 AM	MMDadoda	5/26/2025 5:43:48 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VY051525	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC005	VY022253.D	1,2,3-Trichloropropane	MMDadoda	5/16/2025 11:48:35 AM	Sam	5/16/2025 11:50:51 AM	Peak Integrated by Software
VSTDICC005	VY022253.D	Methacrylonitrile	MMDadoda	5/16/2025 11:48:35 AM	Sam	5/16/2025 11:50:51 AM	Peak Integrated by Software
VSTDICC005	VY022253.D	Methyl Acetate	MMDadoda	5/16/2025 11:48:35 AM	Sam	5/16/2025 11:50:51 AM	Peak Integrated by Software
VSTDICC010	VY022254.D	1,2,3-Trichloropropane	MMDadoda	5/16/2025 11:48:33 AM	Sam	5/16/2025 11:50:49 AM	Peak Integrated by Software
VSTDICC010	VY022254.D	Methacrylonitrile	MMDadoda	5/16/2025 11:48:33 AM	Sam	5/16/2025 11:50:49 AM	Peak Integrated by Software
VSTDICC020	VY022255.D	1,2,3-Trichloropropane	MMDadoda	5/16/2025 11:48:32 AM	Sam	5/16/2025 11:50:48 AM	Peak Integrated by Software
VSTDICC020	VY022255.D	Methacrylonitrile	MMDadoda	5/16/2025 11:48:32 AM	Sam	5/16/2025 11:50:48 AM	Peak Integrated by Software
VSTDICCC050	VY022256.D	1,2,3-Trichloropropane	MMDadoda	5/16/2025 11:48:30 AM	Sam	5/16/2025 11:50:46 AM	Peak Integrated by Software
VSTDICCC050	VY022256.D	Methacrylonitrile	MMDadoda	5/16/2025 11:48:30 AM	Sam	5/16/2025 11:50:46 AM	Peak Integrated by Software
VSTDICC100	VY022257.D	1,2,3-Trichloropropane	MMDadoda	5/16/2025 11:48:28 AM	Sam	5/16/2025 11:50:45 AM	Peak Integrated by Software
VSTDICC100	VY022257.D	Methacrylonitrile	MMDadoda	5/16/2025 11:48:28 AM	Sam	5/16/2025 11:50:45 AM	Peak Integrated by Software
VSTDICC150	VY022258.D	1,2,3-Trichloropropane	MMDadoda	5/16/2025 11:48:27 AM	Sam	5/16/2025 11:50:43 AM	Peak Integrated by Software
VSTDICC150	VY022258.D	Methacrylonitrile	MMDadoda	5/16/2025 11:48:27 AM	Sam	5/16/2025 11:50:43 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VY051525	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICV050	VY022260.D	1,2,3-Trichloropropane	MMDadoda	5/16/2025 11:48:25 AM	Sam	5/16/2025 11:50:42 AM	Peak Integrated by Software
VSTDICV050	VY022260.D	Methacrylonitrile	MMDadoda	5/16/2025 11:48:25 AM	Sam	5/16/2025 11:50:42 AM	Peak Integrated by Software
VSTDCCC050	VY022275.D	1,2,3-Trichloropropane	MMDadoda	5/16/2025 11:48:21 AM	Sam	5/16/2025 11:50:27 AM	Peak Integrated by Software
VSTDCCC050	VY022275.D	Methacrylonitrile	MMDadoda	5/16/2025 11:48:21 AM	Sam	5/16/2025 11:50:27 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VY052325	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY022407.D	1,2,3-Trichloropropane	MMdadoda	5/27/2025 4:51:06 AM	sam	5/27/2025 4:52:35 AM	Peak Integrated by Software
VSTDCCC050	VY022407.D	Methacrylonitrile	MMdadoda	5/27/2025 4:51:06 AM	sam	5/27/2025 4:52:35 AM	Peak Integrated by Software
VY0523SBS01	VY022409.D	1,2,3-Trichloropropane	MMdadoda	5/27/2025 4:51:08 AM	sam	5/27/2025 4:52:37 AM	Peak Integrated by Software
VY0523SBS01	VY022409.D	Methacrylonitrile	MMdadoda	5/27/2025 4:51:08 AM	sam	5/27/2025 4:52:37 AM	Peak Integrated by Software
VY0523SBSD01	VY022410.D	1,2,3-Trichloropropane	MMdadoda	5/27/2025 4:51:10 AM	sam	5/27/2025 4:52:41 AM	Peak Integrated by Software
VY0523SBSD01	VY022410.D	Methacrylonitrile	MMdadoda	5/27/2025 4:51:10 AM	sam	5/27/2025 4:52:41 AM	Peak Integrated by Software
VSTDCCC050	VY022419.D	1,2,3-Trichloropropane	MMdadoda	5/27/2025 4:51:20 AM	sam	5/27/2025 4:52:47 AM	Peak Integrated by Software
VSTDCCC050	VY022419.D	Methacrylonitrile	MMdadoda	5/27/2025 4:51:20 AM	sam	5/27/2025 4:52:47 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VY052725	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC005	VY022421.D	1,2,3-Trichloropropane	Amit	5/28/2025 12:55:29 PM	MMDadoda	5/28/2025 12:56:04 PM	Peak Integrated by Software
VSTDICC005	VY022421.D	Methacrylonitrile	Amit	5/28/2025 12:55:29 PM	MMDadoda	5/28/2025 12:56:04 PM	Peak Integrated by Software
VSTDICC005	VY022421.D	Tert butyl alcohol	Amit	5/28/2025 12:55:29 PM	MMDadoda	5/28/2025 12:56:04 PM	Peak Integrated by Software
VSTDICC010	VY022422.D	1,2,3-Trichloropropane	Amit	5/28/2025 12:55:43 PM	MMDadoda	5/28/2025 12:56:10 PM	Peak Integrated by Software
VSTDICC010	VY022422.D	Methacrylonitrile	Amit	5/28/2025 12:55:43 PM	MMDadoda	5/28/2025 12:56:10 PM	Peak Integrated by Software
VSTDICC020	VY022423.D	1,2,3-Trichloropropane	Amit	5/28/2025 12:55:47 PM	MMDadoda	5/28/2025 12:56:14 PM	Peak Integrated by Software
VSTDICC020	VY022423.D	Methacrylonitrile	Amit	5/28/2025 12:55:47 PM	MMDadoda	5/28/2025 12:56:14 PM	Peak Integrated by Software
VSTDICCC050	VY022424.D	1,2,3-Trichloropropane	Amit	5/28/2025 12:55:51 PM	MMDadoda	5/28/2025 12:56:29 PM	Peak Integrated by Software
VSTDICC100	VY022425.D	1,2,3-Trichloropropane	Amit	5/28/2025 12:55:55 PM	MMDadoda	5/28/2025 12:56:33 PM	Peak Integrated by Software
VSTDICC150	VY022426.D	1,2,3-Trichloropropane	Amit	5/28/2025 12:55:59 PM	MMDadoda	5/28/2025 12:56:36 PM	Peak Integrated by Software
VSTDICC150	VY022426.D	Methacrylonitrile	Amit	5/28/2025 12:55:59 PM	MMDadoda	5/28/2025 12:56:36 PM	Peak Integrated by Software
VSTDICV050	VY022428.D	1,2,3-Trichloropropane	Amit	5/28/2025 12:56:03 PM	MMDadoda	5/28/2025 12:56:40 PM	Peak Integrated by Software
VSTDICV050	VY022428.D	Methacrylonitrile	Amit	5/28/2025 12:56:03 PM	MMDadoda	5/28/2025 12:56:40 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VY052725	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VY0527SBS01	VY022430.D	1,2,3-Trichloropropane	Amit	5/28/2025 12:56:07 PM	MMDadoda	5/28/2025 12:56:43 PM	Peak Integrated by Software
VY0527SBS01	VY022430.D	Methacrylonitrile	Amit	5/28/2025 12:56:07 PM	MMDadoda	5/28/2025 12:56:43 PM	Peak Integrated by Software
VSTDCCC050	VY022438.D	1,2,3-Trichloropropane	Amit	5/28/2025 12:56:20 PM	MMDadoda	5/28/2025 12:56:54 PM	Peak Integrated by Software

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX050525

Review By	John Carlone	Review On	5/6/2025 9:53:58 AM		
Supervise By	Mahesh Dadoda	Supervise On	5/6/2025 12:43:00 PM		
SubDirectory	VX050525	HP Acquire Method		HP Processing Method	82X050525W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133811
Initial Calibration Stds	VP133832,VP133833,VP133834,VP133835,VP133836,VP133837
CCC	
Internal Standard/PEM	
ICV/I.BLK	VP133838
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX046038.D	05 May 2025 09:37	JC/MD	Ok
2	VSTDICC001	VX046039.D	05 May 2025 10:49	JC/MD	Not Ok
3	VSTDICC005	VX046040.D	05 May 2025 11:12	JC/MD	Not Ok
4	VSTDICC020	VX046041.D	05 May 2025 11:35	JC/MD	Ok,M
5	VSTDICCC050	VX046042.D	05 May 2025 11:58	JC/MD	Ok,M
6	VSTDICC100	VX046043.D	05 May 2025 12:21	JC/MD	Ok,M
7	VSTDICC150	VX046044.D	05 May 2025 12:45	JC/MD	Ok,M
8	IBLK	VX046045.D	05 May 2025 13:08	JC/MD	Ok
9	VSTDICC005	VX046046.D	05 May 2025 16:04	JC/MD	Ok,M
10	VSTDICC001	VX046047.D	05 May 2025 16:27	JC/MD	Ok,M
11	VSTDICV050	VX046048.D	05 May 2025 16:50	JC/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX052325

Review By	John Carlone	Review On	5/23/2025 4:14:57 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	5/26/2025 5:42:25 AM		
SubDirectory	VX052325	HP Acquire Method		HP Processing Method	82X050525W.M

STD. NAME	STD REF.#
Tune/Reschk	VP134008
Initial Calibration Stds	
CCC	VP134009,VP134010
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX046330.D	23 May 2025 08:25	JC/MD	Ok
2	VSTDCCC050	VX046331.D	23 May 2025 09:24	JC/MD	Ok,M
3	VX0523MBL01	VX046332.D	23 May 2025 09:53	JC/MD	Ok
4	VX0523WBL01	VX046333.D	23 May 2025 10:16	JC/MD	Ok
5	VX0523WBS01	VX046334.D	23 May 2025 10:57	JC/MD	Ok,M
6	VX0523MBS01	VX046335.D	23 May 2025 11:23	JC/MD	Ok,M
7	Q2075-06ME	VX046336.D	23 May 2025 11:46	JC/MD	Ok
8	VX0523WBSD01	VX046337.D	23 May 2025 12:10	JC/MD	Ok,M
9	Q2120-01	VX046338.D	23 May 2025 12:33	JC/MD	Ok
10	Q2120-02	VX046339.D	23 May 2025 12:56	JC/MD	ReRun
11	Q2118-01	VX046340.D	23 May 2025 13:20	JC/MD	Ok
12	Q2118-05	VX046341.D	23 May 2025 13:43	JC/MD	Ok
13	Q2118-02	VX046342.D	23 May 2025 14:06	JC/MD	Ok
14	Q2118-03	VX046343.D	23 May 2025 14:29	JC/MD	Ok
15	Q2118-04	VX046344.D	23 May 2025 14:53	JC/MD	Ok
16	Q2118-06	VX046345.D	23 May 2025 15:16	JC/MD	Ok
17	Q2118-08	VX046346.D	23 May 2025 15:39	JC/MD	Ok
18	Q2118-09	VX046347.D	23 May 2025 16:03	JC/MD	Ok
19	Q2118-10	VX046348.D	23 May 2025 16:26	JC/MD	Ok
20	Q2114-02	VX046349.D	23 May 2025 16:49	JC/MD	Ok
21	Q2106-01	VX046350.D	23 May 2025 17:12	JC/MD	Ok

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX052325

Review By	John Carlone	Review On	5/23/2025 4:14:57 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	5/26/2025 5:42:25 AM		
SubDirectory	VX052325	HP Acquire Method		HP Processing Method	82X050525W.M

STD. NAME	STD REF.#
Tune/Reschk	VP134008
Initial Calibration Stds	
CCC	VP134009,VP134010
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q2114-01	VX046351.D	23 May 2025 17:36	JC/MD	Ok
23	Q2123-01	VX046352.D	23 May 2025 17:59	JC/MD	Ok
24	Q2123-02	VX046353.D	23 May 2025 18:22	JC/MD	Ok
25	Q2123-03	VX046354.D	23 May 2025 18:45	JC/MD	Ok
26	Q2123-04	VX046355.D	23 May 2025 19:09	JC/MD	Ok
27	Q2120-02	VX046356.D	23 May 2025 19:32	JC/MD	Ok
28	VSTDCCC050	VX046357.D	23 May 2025 19:55	JC/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY051525

Review By	Mahesh Dadoda	Review On	5/16/2025 11:49:17 AM				
Supervise By	Semsettin Yesilyurt	Supervise On	5/16/2025 11:51:38 AM				
SubDirectory	VY051525	HP Acquire Method	MSVOA_Y	HP Processing Method	82y051525s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP133916
Initial Calibration Stds	VP133918,VP133919,VP133920,VP133921,VP133922,VP133923
CCC	VP133925
Internal Standard/PEM	VP131783
ICV/I.BLK	VP133924
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY022252.D	15 May 2025 07:52	SY/MD	Ok
2	VSTDICC005	VY022253.D	15 May 2025 09:46	SY/MD	Ok,M
3	VSTDICC010	VY022254.D	15 May 2025 10:16	SY/MD	Ok,M
4	VSTDICC020	VY022255.D	15 May 2025 10:39	SY/MD	Ok,M
5	VSTDICCC050	VY022256.D	15 May 2025 11:02	SY/MD	Ok,M
6	VSTDICC100	VY022257.D	15 May 2025 11:24	SY/MD	Ok,M
7	VSTDICC150	VY022258.D	15 May 2025 11:47	SY/MD	Ok,M
8	VIBLK	VY022259.D	15 May 2025 12:34	SY/MD	Ok
9	VSTDICV050	VY022260.D	15 May 2025 13:20	SY/MD	Ok,M
10	VY0515SBL01	VY022261.D	15 May 2025 13:44	SY/MD	Ok
11	VY0515SBS01	VY022262.D	15 May 2025 14:07	SY/MD	Ok,M
12	VY0515SBSD01	VY022263.D	15 May 2025 14:29	SY/MD	Ok,M
13	Q1984-01	VY022264.D	15 May 2025 15:12	SY/MD	Ok
14	Q1984-03	VY022265.D	15 May 2025 15:35	SY/MD	Ok
15	Q1984-05	VY022266.D	15 May 2025 15:59	SY/MD	Ok
16	Q1984-07	VY022267.D	15 May 2025 16:22	SY/MD	ReRun
17	Q1984-09	VY022268.D	15 May 2025 16:46	SY/MD	Not Ok
18	Q1984-11	VY022269.D	15 May 2025 17:09	SY/MD	Not Ok
19	Q1984-13	VY022270.D	15 May 2025 17:33	SY/MD	Not Ok
20	Q1984-15	VY022271.D	15 May 2025 17:56	SY/MD	ReRun
21	Q1982-04	VY022272.D	15 May 2025 18:19	SY/MD	Ok

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY051525

Review By	Mahesh Dadoda	Review On	5/16/2025 11:49:17 AM				
Supervise By	Semsettin Yesilyurt	Supervise On	5/16/2025 11:51:38 AM				
SubDirectory	VY051525	HP Acquire Method	MSVOA_Y	HP Processing Method	82y051525s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP133916
Initial Calibration Stds	VP133918,VP133919,VP133920,VP133921,VP133922,VP133923
CCC	VP133925
Internal Standard/PEM	VP131783
ICV/I.BLK	VP133924
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q1982-05	VY022273.D	15 May 2025 18:43	SY/MD	Ok
23	Q1982-06	VY022274.D	15 May 2025 19:06	SY/MD	Ok
24	VSTDCCC050	VY022275.D	15 May 2025 19:52	SY/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY052325

Review By	Mahesh Dadoda	Review On	5/27/2025 4:51:38 AM				
Supervise By	Semsettin Yesilyurt	Supervise On	5/27/2025 4:53:09 AM				
SubDirectory	VY052325	HP Acquire Method	MSVOA_Y	HP Processing Method	82Y051525S.M		

STD. NAME	STD REF.#
Tune/Reschk	VP134014
Initial Calibration Stds	
CCC	VP134015,VP135016
Internal Standard/PEM	VP133934
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY022406.D	23 May 2025 11:40	SY/MD	Ok
2	VSTDCCC050	VY022407.D	23 May 2025 14:34	SY/MD	Ok,M
3	VY0523SBL01	VY022408.D	23 May 2025 15:26	SY/MD	Ok
4	VY0523SBS01	VY022409.D	23 May 2025 16:28	SY/MD	Ok,M
5	VY0523SBSD01	VY022410.D	23 May 2025 16:50	SY/MD	Ok,M
6	Q2118-11	VY022411.D	23 May 2025 17:14	SY/MD	ReRun
7	Q2112-01RE	VY022412.D	23 May 2025 17:37	SY/MD	Confirms
8	Q2100-03	VY022413.D	23 May 2025 18:01	SY/MD	Ok
9	Q2127-11	VY022414.D	23 May 2025 18:24	SY/MD	ReRun
10	Q2127-01	VY022415.D	23 May 2025 18:47	SY/MD	Ok
11	Q2100-01	VY022416.D	23 May 2025 19:11	SY/MD	Ok
12	Q2113-01	VY022417.D	23 May 2025 19:34	SY/MD	Ok
13	VY0523SBS02	VY022418.D	23 May 2025 19:57	SY/MD	Not Ok
14	VSTDCCC050	VY022419.D	23 May 2025 21:05	SY/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY052725

Review By	Amit Patel	Review On	5/28/2025 12:56:58 PM				
Supervise By	Mahesh Dadoda	Supervise On	5/28/2025 12:57:05 PM				
SubDirectory	VY052725	HP Acquire Method	MSVOA_Y	HP Processing Method	82y052725s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP134020
Initial Calibration Stds	VP134021,VP134022,VP134024,VP134026,VP134028,VP134029
CCC	VP134031
Internal Standard/PEM	VP133934
ICV/I.BLK	VP134030
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY022420.D	27 May 2025 08:20	SY/MD	Ok
2	VSTDICC005	VY022421.D	27 May 2025 08:50	SY/MD	Ok,M
3	VSTDICC010	VY022422.D	27 May 2025 09:14	SY/MD	Ok,M
4	VSTDICC020	VY022423.D	27 May 2025 09:36	SY/MD	Ok,M
5	VSTDICCC050	VY022424.D	27 May 2025 09:59	SY/MD	Ok,M
6	VSTDICC100	VY022425.D	27 May 2025 10:22	SY/MD	Ok,M
7	VSTDICC150	VY022426.D	27 May 2025 10:44	SY/MD	Ok,M
8	VIBLK	VY022427.D	27 May 2025 11:20	SY/MD	Ok
9	VSTDICV050	VY022428.D	27 May 2025 11:56	SY/MD	Ok,M
10	VY0527SBL01	VY022429.D	27 May 2025 13:12	SY/MD	Ok
11	VY0527SBS01	VY022430.D	27 May 2025 13:35	SY/MD	Ok,M
12	VY0527SBSD01	VY022431.D	27 May 2025 13:57	SY/MD	Ok,M
13	Q2118-11RE	VY022432.D	27 May 2025 14:27	SY/MD	Confirms
14	Q2113-01	VY022433.D	27 May 2025 14:51	SY/MD	Not Ok
15	Q2128-03	VY022434.D	27 May 2025 15:14	SY/MD	Ok
16	Q2127-11RE	VY022435.D	27 May 2025 15:38	SY/MD	Confirms
17	Q2130-01	VY022436.D	27 May 2025 16:01	SY/MD	Ok
18	VIBLK	VY022437.D	27 May 2025 16:24	SY/MD	Ok
19	VSTDCCC050	VY022438.D	27 May 2025 17:10	SY/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX050525

Review By	John Carlone	Review On	5/6/2025 9:53:58 AM		
Supervise By	Mahesh Dadoda	Supervise On	5/6/2025 12:43:00 PM		
SubDirectory	VX050525	HP Acquire Method		HP Processing Method	82X050525W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133811
Initial Calibration Stds	VP133832,VP133833,VP133834,VP133835,VP133836,VP133837
CCC	
Internal Standard/PEM	
ICV/I.BLK	VP133838
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX046038.D	05 May 2025 09:37		JC/MD	Ok
2	VSTDICC001	VSTDICC001	VX046039.D	05 May 2025 10:49	Not used	JC/MD	Not Ok
3	VSTDICC005	VSTDICC005	VX046040.D	05 May 2025 11:12	Not used	JC/MD	Not Ok
4	VSTDICC020	VSTDICC020	VX046041.D	05 May 2025 11:35		JC/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VX046042.D	05 May 2025 11:58		JC/MD	Ok,M
6	VSTDICC100	VSTDICC100	VX046043.D	05 May 2025 12:21		JC/MD	Ok,M
7	VSTDICC150	VSTDICC150	VX046044.D	05 May 2025 12:45		JC/MD	Ok,M
8	IBLK	IBLK	VX046045.D	05 May 2025 13:08		JC/MD	Ok
9	VSTDICC005	VSTDICC005	VX046046.D	05 May 2025 16:04		JC/MD	Ok,M
10	VSTDICC001	VSTDICC001	VX046047.D	05 May 2025 16:27		JC/MD	Ok,M
11	VSTDICV050	ICVVX050525	VX046048.D	05 May 2025 16:50		JC/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX052325

Review By	John Carlone	Review On	5/23/2025 4:14:57 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	5/26/2025 5:42:25 AM		
SubDirectory	VX052325	HP Acquire Method		HP Processing Method	82X050525W.M

STD. NAME	STD REF.#
Tune/Reschk	VP134008
Initial Calibration Stds	
CCC	VP134009,VP134010
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX046330.D	23 May 2025 08:25		JC/MD	Ok
2	VSTDCCC050	VSTDCCC050	VX046331.D	23 May 2025 09:24	pH#Lot#V12668	JC/MD	Ok,M
3	VX0523MBL01	VX0523MBL01	VX046332.D	23 May 2025 09:53		JC/MD	Ok
4	VX0523WBL01	VX0523WBL01	VX046333.D	23 May 2025 10:16		JC/MD	Ok
5	VX0523WBS01	VX0523WBS01	VX046334.D	23 May 2025 10:57		JC/MD	Ok,M
6	VX0523MBS01	VX0523MBS01	VX046335.D	23 May 2025 11:23		JC/MD	Ok,M
7	Q2075-06ME	SS-MW1-11.5ME	VX046336.D	23 May 2025 11:46		JC/MD	Ok
8	VX0523WBSD01	VX0523WBSD01	VX046337.D	23 May 2025 12:10		JC/MD	Ok,M
9	Q2120-01	VPB182-HYD-2025052	VX046338.D	23 May 2025 12:33	vial A pH<2	JC/MD	Ok
10	Q2120-02	BP-VPB-182-EB-20250	VX046339.D	23 May 2025 12:56	vial A pH<2 EB,Hit of com.#16	JC/MD	ReRun
11	Q2118-01	BP-VPB-182-TB-20250	VX046340.D	23 May 2025 13:20	vial A pH<2 TB	JC/MD	Ok
12	Q2118-05	BP-VPB-182-GW-460-4	VX046341.D	23 May 2025 13:43	vial A pH<2	JC/MD	Ok
13	Q2118-02	BP-VPB-182-GW-420-4	VX046342.D	23 May 2025 14:06	vial A pH<2	JC/MD	Ok
14	Q2118-03	BP-VPB-182-GW-450-4	VX046343.D	23 May 2025 14:29	vial A pH<2	JC/MD	Ok
15	Q2118-04	BP-VPB-182-DUP-2025	VX046344.D	23 May 2025 14:53	vial A pH<2	JC/MD	Ok
16	Q2118-06	BP-VPB-182-GW-480-4	VX046345.D	23 May 2025 15:16	vial A pH<2	JC/MD	Ok
17	Q2118-08	BP-VPB-182-GW-520-5	VX046346.D	23 May 2025 15:39	vial A pH<2	JC/MD	Ok
18	Q2118-09	BP-VPB-182-GW-540-5	VX046347.D	23 May 2025 16:03	vial A pH<2	JC/MD	Ok

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX052325

Review By	John Carlone	Review On	5/23/2025 4:14:57 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	5/26/2025 5:42:25 AM		
SubDirectory	VX052325	HP Acquire Method		HP Processing Method	82X050525W.M

STD. NAME	STD REF.#
Tune/Reschk	VP134008
Initial Calibration Stds	
CCC	VP134009,VP134010
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q2118-10	BP-VPB-182-GW-560-5	VX046348.D	23 May 2025 16:26	vial A pH<2	JC/MD	Ok
20	Q2114-02	FB	VX046349.D	23 May 2025 16:49	vial A pH<2 FB	JC/MD	Ok
21	Q2106-01	TW-WTS-09	VX046350.D	23 May 2025 17:12	vial A pH<2	JC/MD	Ok
22	Q2114-01	GAW1	VX046351.D	23 May 2025 17:36	vial A pH<2	JC/MD	Ok
23	Q2123-01	STORAGE-BLANK-SO	VX046352.D	23 May 2025 17:59	vial A pH<2	JC/MD	Ok
24	Q2123-02	STORAGE-BLANK-WA	VX046353.D	23 May 2025 18:22	vial A pH<2	JC/MD	Ok
25	Q2123-03	STORAGE-BLANK-WA	VX046354.D	23 May 2025 18:45	vial A pH<2	JC/MD	Ok
26	Q2123-04	STORAGE-BLANK-SA	VX046355.D	23 May 2025 19:09	vial A pH<2	JC/MD	Ok
27	Q2120-02	BP-VPB-182-EB-20250	VX046356.D	23 May 2025 19:32	vial B pH<2 EB	JC/MD	Ok
28	VSTDCCC050	VSTDCCC050EC	VX046357.D	23 May 2025 19:55		JC/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY051525

Review By	Mahesh Dadoda	Review On	5/16/2025 11:49:17 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	5/16/2025 11:51:38 AM		
SubDirectory	VY051525	HP Acquire Method	MSVOA_Y	HP Processing Method	82y051525s.m

STD. NAME	STD REF.#
Tune/Reschk	VP133916
Initial Calibration Stds	VP133918,VP133919,VP133920,VP133921,VP133922,VP133923
CCC	VP133925
Internal Standard/PEM	VP131783
ICV/I.BLK	VP133924
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY022252.D	15 May 2025 07:52		SY/MD	Ok
2	VSTDICC005	VSTDICC005	VY022253.D	15 May 2025 09:46		SY/MD	Ok,M
3	VSTDICC010	VSTDICC010	VY022254.D	15 May 2025 10:16		SY/MD	Ok,M
4	VSTDICC020	VSTDICC020	VY022255.D	15 May 2025 10:39		SY/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VY022256.D	15 May 2025 11:02		SY/MD	Ok,M
6	VSTDICC100	VSTDICC100	VY022257.D	15 May 2025 11:24		SY/MD	Ok,M
7	VSTDICC150	VSTDICC150	VY022258.D	15 May 2025 11:47		SY/MD	Ok,M
8	VIBLK	VIBLK	VY022259.D	15 May 2025 12:34		SY/MD	Ok
9	VSTDICV050	ICVVY051525	VY022260.D	15 May 2025 13:20		SY/MD	Ok,M
10	VY0515SBL01	VY0515SBL01	VY022261.D	15 May 2025 13:44		SY/MD	Ok
11	VY0515SBS01	VY0515SBS01	VY022262.D	15 May 2025 14:07		SY/MD	Ok,M
12	VY0515SBSD01	VY0515SBSD01	VY022263.D	15 May 2025 14:29		SY/MD	Ok,M
13	Q1984-01	OU4-PCS-TC-33-05072	VY022264.D	15 May 2025 15:12	vial-A	SY/MD	Ok
14	Q1984-03	OU4-PCS-TC-34-05072	VY022265.D	15 May 2025 15:35	vial-A	SY/MD	Ok
15	Q1984-05	OU4-PCS-TC-35-05072	VY022266.D	15 May 2025 15:59	vial-A	SY/MD	Ok
16	Q1984-07	OU4-TS-24-050725	VY022267.D	15 May 2025 16:22	vial-A Surrogate fail	SY/MD	ReRun
17	Q1984-09	OU4-TS-25-050725	VY022268.D	15 May 2025 16:46	vial-A Surrogate fail	SY/MD	Not Ok
18	Q1984-11	OU4-TS-26-050725	VY022269.D	15 May 2025 17:09	vial-A Surrogate fail	SY/MD	Not Ok

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY051525

Review By	Mahesh Dadoda	Review On	5/16/2025 11:49:17 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	5/16/2025 11:51:38 AM		
SubDirectory	VY051525	HP Acquire Method	MSVOA_Y	HP Processing Method	82y051525s.m

STD. NAME	STD REF.#
Tune/Reschk	VP133916
Initial Calibration Stds	VP133918,VP133919,VP133920,VP133921,VP133922,VP133923
CCC	VP133925
Internal Standard/PEM	VP131783
ICV/I.BLK	VP133924
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q1984-13	OU4-TS-27-050725	VY022270.D	15 May 2025 17:33	vial-A Surrogate fail	SY/MD	Not Ok
20	Q1984-15	OU4-TS-28-050725	VY022271.D	15 May 2025 17:56	vial-A Surrogate fail	SY/MD	ReRun
21	Q1982-04	TP-4	VY022272.D	15 May 2025 18:19	vial-A	SY/MD	Ok
22	Q1982-05	TP-5	VY022273.D	15 May 2025 18:43	vial-A	SY/MD	Ok
23	Q1982-06	TP-6	VY022274.D	15 May 2025 19:06	vial-A	SY/MD	Ok
24	VSTDCCC050	VSTDCCC050EC	VY022275.D	15 May 2025 19:52		SY/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY052325

Review By	Mahesh Dadoda	Review On	5/27/2025 4:51:38 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	5/27/2025 4:53:09 AM		
SubDirectory	VY052325	HP Acquire Method	MSVOA_Y	HP Processing Method	82Y051525S.M

STD. NAME	STD REF.#
Tune/Reschk	VP134014
Initial Calibration Stds	
CCC	VP134015,VP135016
Internal Standard/PEM	VP133934
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY022406.D	23 May 2025 11:40		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY022407.D	23 May 2025 14:34		SY/MD	Ok,M
3	VY0523SBL01	VY0523SBL01	VY022408.D	23 May 2025 15:26		SY/MD	Ok
4	VY0523SBS01	VY0523SBS01	VY022409.D	23 May 2025 16:28		SY/MD	Ok,M
5	VY0523SBSD01	VY0523SBSD01	VY022410.D	23 May 2025 16:50		SY/MD	Ok,M
6	Q2118-11	BP-VPB-182-GW-500-5	VY022411.D	23 May 2025 17:14	vial-A Surrogate Fail	SY/MD	ReRun
7	Q2112-01RE	EO-03-05222025RE	VY022412.D	23 May 2025 17:37	vial-B Internal Standard Fail	SY/MD	Confirms
8	Q2100-03	TP-21	VY022413.D	23 May 2025 18:01	vial-B	SY/MD	Ok
9	Q2127-11	COMP-2	VY022414.D	23 May 2025 18:24	vial-A Internal Standard Fail	SY/MD	ReRun
10	Q2127-01	COMP-1	VY022415.D	23 May 2025 18:47	vial-A	SY/MD	Ok
11	Q2100-01	TP-16	VY022416.D	23 May 2025 19:11	vial-B	SY/MD	Ok
12	Q2113-01	HD-02-05222025	VY022417.D	23 May 2025 19:34	vial-A	SY/MD	Ok
13	VY0523SBS02	VY0523SBS02	VY022418.D	23 May 2025 19:57	Not required	SY/MD	Not Ok
14	VSTDCCC050	VSTDCCC050EC	VY022419.D	23 May 2025 21:05		SY/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY052725

Review By	Amit Patel	Review On	5/28/2025 12:56:58 PM		
Supervise By	Mahesh Dadoda	Supervise On	5/28/2025 12:57:05 PM		
SubDirectory	VY052725	HP Acquire Method	MSVOA_Y	HP Processing Method	82y052725s.m

STD. NAME	STD REF.#
Tune/Reschk	VP134020
Initial Calibration Stds	VP134021,VP134022,VP134024,VP134026,VP134028,VP134029
CCC	VP134031
Internal Standard/PEM	VP133934
ICV/I.BLK	VP134030
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY022420.D	27 May 2025 08:20		SY/MD	Ok
2	VSTDICC005	VSTDICC005	VY022421.D	27 May 2025 08:50		SY/MD	Ok,M
3	VSTDICC010	VSTDICC010	VY022422.D	27 May 2025 09:14		SY/MD	Ok,M
4	VSTDICC020	VSTDICC020	VY022423.D	27 May 2025 09:36		SY/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VY022424.D	27 May 2025 09:59		SY/MD	Ok,M
6	VSTDICC100	VSTDICC100	VY022425.D	27 May 2025 10:22		SY/MD	Ok,M
7	VSTDICC150	VSTDICC150	VY022426.D	27 May 2025 10:44		SY/MD	Ok,M
8	VIBLK	VIBLK	VY022427.D	27 May 2025 11:20		SY/MD	Ok
9	VSTDICV050	ICVVY052725	VY022428.D	27 May 2025 11:56		SY/MD	Ok,M
10	VY0527SBL01	VY0527SBL01	VY022429.D	27 May 2025 13:12		SY/MD	Ok
11	VY0527SBS01	VY0527SBS01	VY022430.D	27 May 2025 13:35		SY/MD	Ok,M
12	VY0527SBSD01	VY0527SBSD01	VY022431.D	27 May 2025 13:57		SY/MD	Ok,M
13	Q2118-11RE	BP-VPB-182-GW-500-5	VY022432.D	27 May 2025 14:27	vial-B Surrogate Fail	SY/MD	Confirms
14	Q2113-01	HD-02-05222025	VY022433.D	27 May 2025 14:51	vial-B not purged	SY/MD	Not Ok
15	Q2128-03	TP03-MHM-VOC	VY022434.D	27 May 2025 15:14	vial-A	SY/MD	Ok
16	Q2127-11RE	COMP-2RE	VY022435.D	27 May 2025 15:38	vial-B Internal Standard Fail	SY/MD	Confirms
17	Q2130-01	TP-3	VY022436.D	27 May 2025 16:01	vial-A	SY/MD	Ok
18	VIBLK	VIBLK	VY022437.D	27 May 2025 16:24		SY/MD	Ok

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY052725

Review By	Amit Patel	Review On	5/28/2025 12:56:58 PM		
Supervise By	Mahesh Dadoda	Supervise On	5/28/2025 12:57:05 PM		
SubDirectory	VY052725	HP Acquire Method	MSVOA_Y	HP Processing Method	82y052725s.m

STD. NAME	STD REF.#
Tune/Reschk	VP134020
Initial Calibration Stds	VP134021,VP134022,VP134024,VP134026,VP134028,VP134029
CCC	VP134031
Internal Standard/PEM	VP133934
ICV/I.BLK	VP134030
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	VSTDCCC050	VSTDCCC050EC	VY022438.D	27 May 2025 17:10		SY/MD	Ok,M

M : Manual Integration

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Prep Standard - Chemical Standard Summary

Order ID : Q2118

Test : VOCMS Group1

Prepbatch ID :

Sequence ID/Qc Batch ID: vx052325,VY052325,VY052725,

Standard ID :
VP132035,VP132036,VP132037,VP132038,VP132096,VP132097,VP132098,VP132099,VP132101,VP132102,VP132678,VP133174,VP133175,VP133176,VP133177,VP133887,VP133888,VP133889,VP133890,VP133934,VP133935,VP133953,VP133978,VP133979,VP133991,VP133995,VP133996,VP133997,VP133998,VP133999,VP134008,VP134009,VP134010,VP134014,VP134015,VP134020,VP134021,VP134022,VP134024,VP134026,VP134028,VP134029,VP134030,VP134031,VP135016,

Chemical ID :
V12967,V13391,V13450,V13457,V13460,V13465,V13466,V13582,V13706,V13822,V13920,V14127,V14180,V14290,V14427,V14432,V14435,V14503,V14504,V14525,V14526,V14613,V14614,V14620,V14624,V14626,V14630,V14631,V14632,V14633,V14711,V14717,V14718,V14721,V14749,V14750,V14793,V14811,V14812,V14843,V14921,V14944,V14945,V14946,V14947,V14949,V14950,W3112,

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1810	8260 Working Std(2-CVE)-800ppm	VP132035	12/10/2024	06/10/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 12/12/2024

FROM 1.00000ml of V14630 + 1.00000ml of V14631 + 1.00000ml of V14632 + 1.00000ml of V14633 + 46.00000ml of V14614 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1811	8260 Working Std(2-CVE)-500ppm	VP132036	12/10/2024	06/10/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 12/12/2024

FROM 7.50000ml of V14614 + 12.50000ml of VP132035 = Final Quantity: 20.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1812	8260 Working Std(2-CVE)-100ppm	VP132037	12/10/2024	06/10/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 12/12/2024

FROM 0.25000ml of V14633 + 24.75000ml of V14614 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1813	8260 Working Std(2-CVE)-50ppm	VP132038	12/10/2024	06/10/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 12/12/2024

FROM 20.00000ml of V14614 + 1.25000ml of VP132035 = Final Quantity: 20.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
719	8260 Working STD (BCM)-First source, 400PPM	VP132096	12/12/2024	06/10/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 12/19/2024

FROM 1.00000ml of V13465 + 1.00000ml of V13466 + 1.50000ml of V13457 + 1.50000ml of V13460 + 20.00000ml of V14614 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
253	8260 Working STD (BCM)-First source, 20PPM	VP132097	12/12/2024	06/10/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 12/19/2024

FROM 0.50000ml of V13466 + 49.50000ml of V14614 = Final Quantity: 50.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
252	8260 Working STD (BCM)-First source, 100PPM	VP132098	12/12/2024	06/10/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 12/19/2024

FROM 1.25000ml of V13466 + 23.75000ml of V14614 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
254	8260 Working STD (BCM)-First source, 10PPM	VP132099	12/12/2024	06/10/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 12/19/2024

FROM 0.05000ml of V13465 + 9.95000ml of V14614 = Final Quantity: 10.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1817	8260 Working Std(2-CVE)-SS, 800ppm	VP132101	12/12/2024	06/10/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 12/19/2024

FROM 0.80000ml of V13582 + 9.20000ml of V14614 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1819	8260 Working Std(2-CVE)-SS, 500ppm	VP132102	12/12/2024	06/10/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 12/19/2024

FROM 1.87500ml of V14614 + 3.12500ml of VP132101 = Final Quantity: 5.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
262	8260 Working STD (BCM)-Second source, 100PPM	VP132678	01/24/2025	07/13/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 01/29/2025

FROM 1.00000ml of V12967 + 9.00000ml of V14624 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
617	8260 Surrogate, 400PPM	VP133174	02/27/2025	08/27/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 03/04/2025

FROM 0.40000ml of V13706 + 24.60000ml of V14613 = Final Quantity: 25.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
249	8260 Surrogate, 100PPM	VP133175	02/27/2025	08/27/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 03/04/2025

FROM 0.10000ml of V13706 + 24.90000ml of V14613 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1738	8260 surrogate 20 ppm	VP133176	02/27/2025	08/27/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 03/04/2025

FROM 0.02000ml of V13706 + 24.99000ml of V14613 = Final Quantity: 25.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
250	8260 Surrogate, 10PPM	VP133177	02/27/2025	08/27/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 03/04/2025

FROM 9.00000ml of V14613 + 1.00000ml of VP133175 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
257	8260 Calibration Working STD Mix-First source, 160PPM	VP133887	05/12/2025	06/23/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 05/14/2025

FROM 0.40000ml of V14843 + 1.00000ml of V14432 + 1.00000ml of V14435 + 1.00000ml of V14503 + 1.00000ml of V14504 + 1.00000ml of V14525 + 1.00000ml of V14526 + 1.00000ml of V14711 + 1.00000ml of V14717 + 1.00000ml of V14718 + 1.00000ml of V14721 + 1.00000ml of V14749 + 1.00000ml of V14750 + 1.00000ml of V14811 + 1.00000ml of V14812 + 10.60000ml of V14921 = Final Quantity: 25.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
244	8260 Calibration Working STD Mix-First source, 100PPM	VP133888	05/12/2025	06/23/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 05/14/2025

FROM 5.62500ml of V14921 + 9.37500ml of VP133887 = Final Quantity: 15.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
245	8260 Calibration Working STD Mix-First source, 20PPM	VP133889	05/12/2025	06/22/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 05/14/2025

FROM 17.50000ml of V14921 + 2.50000ml of VP133887 = Final Quantity: 20.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
246	8260 Calibration Working STD Mix-First source, 10PPM	VP133890	05/12/2025	06/23/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 05/14/2025

FROM 9.37500ml of V14921 + 0.62500ml of VP133887 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1917	8260 Internal standard 50 ppm	VP133934	05/16/2025	11/12/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 05/21/2025

FROM 0.10000ml of V14290 + 49.90000ml of V14921 = Final Quantity: 50.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
247	8260 Internal Standard, 250PPM	VP133935	05/16/2025	11/12/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 05/21/2025

FROM 0.25000ml of V14290 + 24.75000ml of V14921 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
218	BFB, 25PPM	VP133953	05/19/2025	11/09/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 05/21/2025

FROM 0.25000ml of V13391 + 24.75000ml of V14626 = Final Quantity: 25.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
259	8260 Calibration Working STD Mix-Second source, 160PPM	VP133978	05/15/2025	06/30/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 05/27/2025

FROM 0.16000ml of V13450 + 0.80000ml of V13822 + 0.80000ml of V14127 + 0.80000ml of V14180 + 0.80000ml of V14427 + 0.80000ml of V14793 + 1.60000ml of V13920 + 4.24000ml of V14620 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
260	8260 Calibration Working STD Mix-Second source, 100PPM	VP133979	05/15/2025	06/30/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 05/27/2025

FROM 1.87500ml of V14620 + 3.12500ml of VP133978 = Final Quantity: 5.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
51	8260 Working STD (Acrolein) -first source, 800PPM	VP133991	05/22/2025	06/19/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 05/24/2025

FROM 1.00000ml of V14944 + 1.00000ml of V14945 + 1.00000ml of V14946 + 1.00000ml of V14947 + 21.00000ml of V14620 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
56	8260 Working STD (Acrolein) -first source, 500PPM	VP133995	05/22/2025	06/19/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 05/24/2025

FROM 5.62500ml of V14620 + 9.37500ml of VP133991 = Final Quantity: 15.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
180	8260 Working STD (Acrolein)-First source, 100PPM	VP133996	05/22/2025	06/19/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 05/24/2025

FROM 17.50000ml of V14620 + 2.50000ml of VP133991 = Final Quantity: 20.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
181	8260 Working STD (Acrolein)-First source, 50PPM	VP133997	05/22/2025	06/19/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 05/24/2025

FROM 0.62500ml of V14620 + 9.37500ml of VP133991 = Final Quantity: 10.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
263	8260 Working STD (Acrolein)-Second source, 800PPM	VP133998	05/22/2025	06/17/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 05/24/2025

FROM 0.60000ml of V14950 + 1.00000ml of V14949 + 8.40000ml of V14620 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
264	8260 Working STD (Acrolein)-Second source, 500PPM	VP133999	05/22/2025	06/17/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 05/24/2025

FROM 1.87500ml of V14626 + 3.12500ml of VP133998 = Final Quantity: 5.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
589	BFB TUNE CHECK	VP134008	05/23/2025	05/24/2025	John Carlone	None	None	Mahesh Dadoda 05/24/2025

FROM 39.98400ml of W3112 + 0.01600ml of VP133953 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
620	50 PPB CCC, 8260-Water	VP134009	05/23/2025	05/24/2025	John Carlone	None	None	Mahesh Dadoda 05/24/2025

FROM 39.94450ml of W3112 + 0.00500ml of VP132096 + 0.00500ml of VP133174 + 0.00800ml of VP133935 + 0.01250ml of VP132035 + 0.01250ml of VP133887 + 0.01250ml of VP133991 = Final Quantity: 40.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
620	50 PPB CCC, 8260-Water	VP134010	05/23/2025	05/24/2025	John Carlone	None	None	Mahesh Dadoda 05/24/2025

FROM 39.94450ml of W3112 + 0.00500ml of VP132096 + 0.00500ml of VP133174 + 0.00800ml of VP133935 + 0.01250ml of VP132035 + 0.01250ml of VP133887 + 0.01250ml of VP133991 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
732	BFB TUNE CHECK - SOIL	VP134014	05/23/2025	05/24/2025	Mahesh Dadoda	None	None	Semsettin Yesilyurt 05/29/2025

FROM 4.99800ml of W3112 + 0.00200ml of VP133953 = Final Quantity: 5.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
773	50 PPB CCC, 8260-SOIL	VP134015	05/23/2025	05/24/2025	Mahesh Dadoda	None	None	Semsettin Yesilyurt 05/29/2025

FROM 4.98000ml of W3112 + 0.00250ml of VP132036 + 0.00250ml of VP132098 + 0.00250ml of VP133175 + 0.00250ml of VP133888 + 0.00250ml of VP133995 + 0.00500ml of VP133934 = Final Quantity: 5.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
732	BFB TUNE CHECK - SOIL	VP134020	05/27/2025	05/28/2025	Amit Patel	None	None	Mahesh Dadoda 05/27/2025

FROM 4.99800ml of W3112 + 0.00200ml of VP133953 = Final Quantity: 5.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
267	5 PPB ICC, 8260-SOIL	VP134021	05/27/2025	05/28/2025	Amit Patel	None	None	Mahesh Dadoda 05/27/2025

FROM 4.98000ml of W3112 + 0.00250ml of VP132038 + 0.00250ml of VP132099 + 0.00250ml of VP133177 + 0.00250ml of VP133890 + 0.00250ml of VP133997 + 0.00500ml of VP133934 = Final Quantity: 5.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
269	10 PPB ICC, 8260-SOIL	VP134022	05/27/2025	05/28/2025	Amit Patel	None	None	Mahesh Dadoda 05/27/2025

FROM 4.98000ml of W3112 + 0.00250ml of VP132037 + 0.00250ml of VP132097 + 0.00250ml of VP133176 + 0.00250ml of VP133889 + 0.00250ml of VP133996 + 0.00500ml of VP133934 = Final Quantity: 5.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
270	20 PPB ICC, 8260-SOIL	VP134024	05/27/2025	05/28/2025	Amit Patel	None	None	Mahesh Dadoda 05/27/2025

FROM 4.96500ml of W3112 + 0.00500ml of VP132037 + 0.00500ml of VP132097 + 0.00500ml of VP133176 + 0.00500ml of VP133889 + 0.00500ml of VP133934 + 0.00500ml of VP133996 = Final Quantity: 5.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
273	50 PPB ICC, 8260-SOIL	VP134026	05/27/2025	05/28/2025	Amit Patel	None	None	Mahesh Dadoda 05/27/2025

FROM 4.98000ml of W3112 + 0.00250ml of VP132036 + 0.00250ml of VP132098 + 0.00250ml of VP133175 + 0.00250ml of VP133888 + 0.00250ml of VP133995 + 0.00500ml of VP133934 = Final Quantity: 5.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
280	100 PPB ICC, 8260-SOIL	VP134028	05/27/2025	05/28/2025	Amit Patel	None	None	Mahesh Dadoda 05/27/2025

FROM 4.96500ml of W3112 + 0.00500ml of VP132036 + 0.00500ml of VP132098 + 0.00500ml of VP133175 + 0.00500ml of VP133888 + 0.00500ml of VP133934 + 0.00500ml of VP133995 = Final Quantity: 5.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1653	150 PPB ICC,8260-SOIL	VP134029	05/27/2025	05/28/2025	Amit Patel	None	None	Mahesh Dadoda 05/27/2025

FROM 4.95000ml of W3112 + 0.00500ml of VP133934 + 0.00750ml of VP132036 + 0.00750ml of VP132098 + 0.00750ml of VP133175 + 0.00750ml of VP133888 + 0.00750ml of VP133995 = Final Quantity: 5.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
287	50 PPB ICV, 8260-SOIL	VP134030	05/27/2025	05/28/2025	Amit Patel	None	None	Mahesh Dadoda 05/27/2025

FROM 4.98000ml of W3112 + 0.00250ml of VP132102 + 0.00250ml of VP132678 + 0.00250ml of VP133175 + 0.00250ml of VP133979 + 0.00250ml of VP133999 + 0.00500ml of VP133934 = Final Quantity: 5.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
773	50 PPB CCC, 8260-SOIL	VP134031	05/27/2025	05/28/2025	Amit Patel	None	None	Mahesh Dadoda 05/27/2025

FROM 4.98000ml of W3112 + 0.00250ml of VP132036 + 0.00250ml of VP132098 + 0.00250ml of VP133175 + 0.00250ml of VP133888 + 0.00250ml of VP133995 + 0.00500ml of VP133934 = Final Quantity: 5.000 ml

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	70046 / Bromochloromethane Std. sol/methanol 1000ppm	070122	07/24/2025	01/24/2025 / SAM	07/06/2022 / SAM	V12967

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30067 / BFB tuneing solution	A0191805	11/22/2025	11/22/2024 / SAM	01/13/2023 / SAM	V13391

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30470 / VOA Stock Solution, tert-butanol std, 1mL, P&TM	A0191703	11/15/2025	05/15/2025 / SAM	01/23/2023 / SAM	V13450

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0193071	06/12/2025	12/12/2024 / SAM	01/27/2023 / SAM	V13457

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0193071	06/12/2025	12/12/2024 / SAM	01/27/2023 / SAM	V13460

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0193071	06/12/2025	12/12/2024 / SAM	01/27/2023 / SAM	V13465

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0193071	06/12/2025	12/12/2024 / SAM	01/27/2023 / SAM	V13466

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95318 / 2-Chloroethyl Vinyl Ether (Min = 5)	111722	11/17/2025	12/12/2024 / SAM	01/30/2023 / SAM	V13582

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555582 / Custom Mixture, 8260 A/B Surrogate Mix [CS 5179-2]	A0196865	02/27/2026	02/27/2025 / SAM	04/12/2023 / SAM	V13706

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml	A0197644	09/30/2025	03/31/2025 / SAM	05/31/2023 / SAM	V13822

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A0193887	11/15/2025	05/15/2025 / SAM	07/24/2023 / SAM	V13920

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95319 / Revised Additions Mix (Min = 5)	011624	09/30/2025	03/31/2025 / SAM	01/17/2024 / SAM	V14127

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	021524	09/30/2025	03/31/2025 / SAM	02/20/2024 / SAM	V14180

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555581 / Custom Standard, 8260 Internal Std [CS 5179-1]	A0210184	12/12/2025	12/12/2024 / SAM	04/15/2024 / SAM	V14290

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0205013	06/30/2025	05/15/2025 / SAM	08/15/2024 / SAM	V14427

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0209618	09/30/2025	05/12/2025 / SAM	08/15/2024 / SAM	V14432

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0209618	09/20/2025	03/20/2025 / SAM	08/15/2024 / SAM	V14435

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	021624	11/12/2025	05/12/2025 / SAM	09/17/2024 / SAM	V14503

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	021624	11/12/2025	05/12/2025 / SAM	09/17/2024 / SAM	V14504

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95319 / Revised Additions Mix (Min = 5)	091724	11/12/2025	05/12/2025 / SAM	09/18/2024 / SAM	V14525

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95319 / Revised Additions Mix (Min = 5)	091724	11/12/2025	05/12/2025 / SAM	09/18/2024 / SAM	V14526

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	08/27/2025	02/27/2025 / SAM	11/26/2024 / SAM	V14613

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	06/10/2025	12/10/2024 / SAM	11/26/2024 / SAM	V14614

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	10/25/2025	05/09/2025 / SAM	11/26/2024 / SAM	V14620

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	23I0762004	07/13/2025	01/13/2025 / SAM	11/26/2024 / SAM	V14624

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	23I0762004	11/09/2025	05/09/2025 / SAM	11/26/2024 / SAM	V14626

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14630

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14631

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14632

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14633

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A02110618	11/12/2025	05/12/2025 / SAM	12/17/2024 / SAM	V14711

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A02110618	11/12/2025	05/12/2025 / SAM	12/17/2024 / SAM	V14717

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A02110618	11/12/2025	05/12/2025 / SAM	12/17/2024 / SAM	V14718

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A02110618	11/12/2025	05/12/2025 / SAM	12/17/2024 / SAM	V14721

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml	A0216826	11/13/2025	05/12/2025 / SAM	12/17/2024 / SAM	V14749

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml	A0216826	11/12/2025	05/12/2025 / SAM	12/17/2024 / SAM	V14750

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE LOTS	A0220563	06/30/2026	05/15/2025 / SAM	01/08/2025 / SAM	V14793

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE LOTS	A0220471	11/12/2025	05/12/2025 / SAM	01/08/2025 / SAM	V14811

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE LOTS	A0220471	06/30/2026	05/12/2025 / SAM	01/08/2025 / SAM	V14812

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30470 / VOA Stock Solution, tert-butanol std, 1mL, P&TM	A0217535	11/12/2025	05/12/2025 / SAM	01/21/2025 / SAM	V14843

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	24G0262002	11/12/2025	05/12/2025 / SAM	05/09/2025 / SAM	V14921

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	051925	06/19/2025	05/22/2025 / SAM	05/21/2025 / SAM	V14944

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	051925	06/19/2025	05/22/2025 / SAM	05/21/2025 / SAM	V14945

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	051925	06/19/2025	05/22/2025 / SAM	05/21/2025 / SAM	V14946

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	051925	06/19/2025	05/22/2025 / SAM	05/21/2025 / SAM	V14947

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	051725	06/17/2025	05/22/2025 / SAM	05/21/2025 / SAM	V14949

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	051725	06/17/2025	05/22/2025 / SAM	05/21/2025 / SAM	V14950

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

avantor™ | J.T.Baker®

Material No.: 9077-02
Batch No.: 2310762004
Manufactured Date: 2023-08-11
Expiration Date: 2026-08-10
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.5 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.2
Titrable Base (µeq/g)	≤ 0.10	0.01
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Ken Koehnlein
Sr. Manager, Quality Assurance

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

avantor™ | J.T.Baker®

Material No.: 9077-02
Batch No.: 2310762004
Manufactured Date: 2023-08-11
Expiration Date: 2026-08-10
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.5 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.2
Titrable Base (µeq/g)	≤ 0.10	0.01
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Ken Koehnlein
Sr. Manager, Quality Assurance

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

12 Baxter

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Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.2
Titrable Base (µeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

James Ethier
Jamie Ethier
Vice President Global Quality

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

12 Baxter

avantor™ | J.T.Baker®

Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.2
Titrable Base (µeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

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Methanol
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12 Baxter

avantor™ | J.T.Baker®

Material No.: 9077-02
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Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
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James Ethier

Jamie Ethier
Vice President Global Quality

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

12

ANAB ISO 17034 Accredit
AR-1539 Certificate Number
https://Absolutestandards.cc

CERTIFIED WEIGHT REPORT

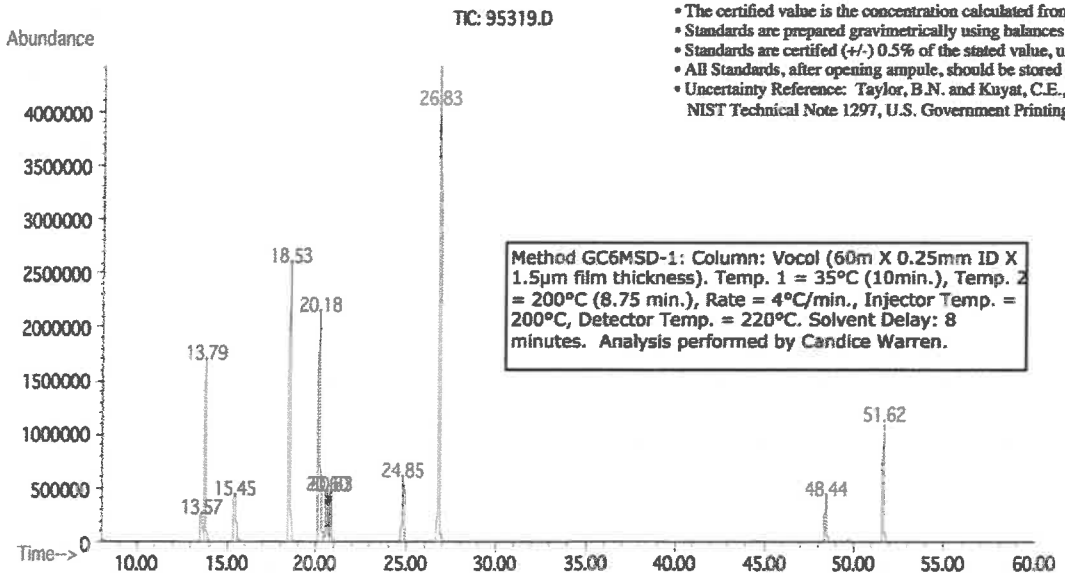
Part Number: 95319
Lot Number: 011624
Description: Revised Additions Mix
11 components
Expiration Date: 011627
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): Varied
NIST Test ID#: 6UTB

Solvent(s): Methanol **Lot#** EH471-US

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Flask Uncertainty

Formulated By:	Prashant Chauhan	011624 DATE
Reviewed By:	Pedro L. Rentas	011624 DATE

	Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1.	Acrylonitrile	7	4718CK	10000	99	0.2	1.01035	1.01080	10004.4	40.6	107-13-1	N/A	orl-rat 78 mg/kg
2.	1-Chlorobutane	1072	MKCM5711	2000	99.99	0.2	0.20007	0.20035	2002.8	8.1	109-69-3	N/A	orl-rat 2670mg/kg
3.	Cyclohexane	1023	28930	2000	99	0.2	0.20207	0.20222	2001.5	8.2	110-82-7	300 ppm (1050mg/m3/8H)	orl-rat 12705mg/kg
4.	Di-isopropyl ether (DIPE)	987	00412MX	2000	99	0.2	0.20207	0.20227	2002.0	8.2	108-20-3	500 ppm (2100mg/m3/8H)	orl-rat 8470mg/kg
5.	1,4-Dioxane	373	03853KE	40000	99	0.2	4.04142	4.04213	40007.0	162.5	123-91-1	25 ppm (90mg/m3/8H)(skin)	orl-mus 5700mg/kg
6.	Hexachloroethane	199	12604HBV	2000	99	0.2	0.20207	0.20221	2001.4	8.2	67-72-1	1 ppm (10mg/m3/8H)(skin)	orl-gpg 4970mg/kg
7.	Methylcyclohexane	1627	SHBG0199V	2000	99	0.2	0.20207	0.20230	2002.3	8.2	108-87-2	N/A	orl-mus 2250mg/kg
8.	Methyl tert-butyl ether (MTBE)	209	21880	2000	99	0.2	0.20207	0.20227	2002.0	8.2	1634-04-4	N/A	orl-rat 4g/kg
9.	Propionitrile	349	1395468	20000	99	0.2	2.02071	2.02150	20007.8	81.3	107-12-0	N/A	orl-rat 39mg/kg
10.	Tetrahydrofuran	380	SHBH8330	10000	99.9	0.2	1.00125	1.00200	10007.5	40.3	109-99-9	20 ppm (590mg/m3/8H)	orl-rat 1650mg/kg
11.	1,2,3,4-Tetramethylbenzene	491	AP01	2000	93	0.2	0.21511	0.21522	2001.0	8.7	488-23-3	N/A	orl-rat 6408mg/kg



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Method GC6MSD-1: Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Temp. 1 = 35°C (10min.), Temp. 2 = 200°C (8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Solvent Delay: 8 minutes. Analysis performed by Candice Warren.

Name	MSD RT (min.)
Methyl tert-butyl ether (MTBE)	13.56
Acrylonitrile	13.79
Di-isopropyl ether	15.44
Propionitrile	18.53
Tetrahydrofuran	20.17
Cyclohexane	20.58
1-Chlorobutane	20.83
Methylcyclohexane	24.84
1,4-Dioxane	26.84
Hexachloroethane	48.44
1,2,3,4-Tetramethylbenzene	51.62

CERTIFIED WEIGHT REPORT

Part Number: 95317
Lot Number: 021524
Description: Universal VOA Megamix
69 components
Expiration Date: 021527
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 8UTB

Solvent(s): Methanol Lot# EG359-USQ12

Formulated By: Mario Luis 021524 DATE

Reviewed By: Pedro L. Rentas 021524 DATE

5E-05 Balance Uncertainty

Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Flask Uncertainty

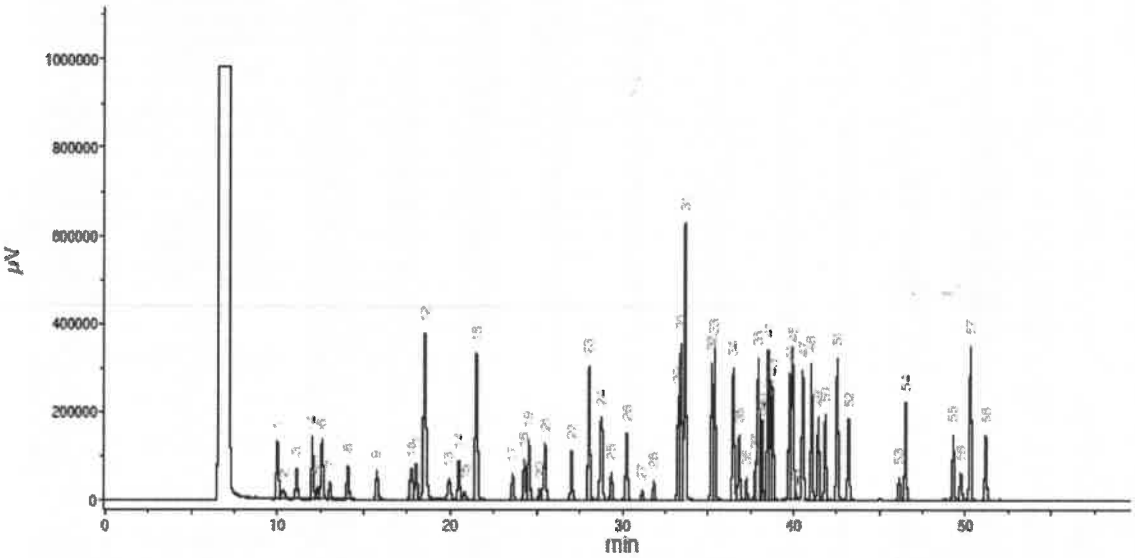
	Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(ug/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expended Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1.	Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20022	2001.5	8.1	75-05-8	40 ppm (70mg/m3/8H)	orl-rat 2460mg/kg
2.	Allyl chloride (3-Chloropropene)	(0325)	102396	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20222	2001.5	8.2	107-05-1	1 ppm (3mg/m3/8H)	orl-rat 700mg/kg
3.	Carbon disulphide	(0060)	MKCR8561	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20020	2001.3	8.1	75-15-0	4 ppm (12mg/m3) (skin)	orl-rat 1200mg/kg
4.	cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21058	0.21060	2000.2	8.5	1476-11-5	N/A	N/A
5.	trans-1,4-Dichloro-2-butene	(0486)	MKBP6041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20734	2000.3	8.4	110-57-6	N/A	N/A
6.	Diethyl ether	(0153)	IK18CAS000(	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20042	2001.7	8.1	60-29-7	N/A	N/A
7.	Ethyl methacrylate	(0381)	06126PX	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20231	2002.4	8.2	97-63-2	N/A	orl-rat 14800mg/kg
8.	Iodomethane	(0489)	SHBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20118	2001.2	8.1	74-88-4	5 ppm(28mg/m3/8H)(skin)	orl-rat 76mg/kg
9.	2-Methyl-1-propanol	(0445)	15241EB	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20120	2001.4	8.1	78-83-1	50 ppm (150mg/m3/8H)	orl-rat 2460mg/kg
10.	Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20209	2000.2	8.2	126-98-7	1 ppm (3mg/m3/8H)(skin)	orl-rat 120mg/kg
11.	Methyl acrylate	(1075)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20042	2001.7	8.1	96-33-3	10 ppm(35mg/m3/8H)(skin)	orl-rat 277mg/kg
12.	Methyl methacrylate	(0404)	MKBW5137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20030	2000.5	8.1	80-62-6	100 ppm (410mg/m3/8H)	orl-rat 7872mg/kg
13.	Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	98-95-3	1 ppm (5mg/m3/8H)(skin)	orl-rat 780mg/kg
14.	2-Nitropropane	(0461)	14002JX	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20570	2001.0	8.3	79-46-9	10 ppm (35mg/m3/8H)	orl-rat 720mg/kg
15.	Pentachloroethane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20415	2000.2	8.3	76-01-7	N/A	N/A
16.	1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20210	2000.3	8.2	76-13-1	1000 ppm (7600mg/m3/8H)	orl-rat 43g/kg
17.	Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	N/A	orl-rat 916mg/kg
18.	Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	N/A	orl-rat 848mg/kg
19.	cis-1,2-Dichloroethene	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	156-59-2	N/A	N/A
20.	trans-1,2-Dichloroethene	35171	101623	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	156-60-5	N/A	orl-rat 1235mg/kg
21.	Methylene chloride	35171	101623	0.05	5.00	40002.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-09-2	500 ppm	orl-rat 820mg/kg
22.	1,1-Dichloroethene	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.7	20.4	75-35-4	1 ppm (4mg/m3/8H)	orl-rat 200mg/kg
23.	Bromoform	95321	020724	0.10	10.00	20003.2	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-25-2	0.5 ppm (5mg/m3) (skin)	orl-rat 933mg/kg
24.	Carbon tetrachloride	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	56-23-5	2 ppm (12.6mg/m3/8H)	orl-rat 2350mg/kg
25.	Chloroform	95321	020724	0.10	10.00	20024.0	2000	NA	NA	0.042	NA	NA	2001.9	20.5	67-66-3	50 ppm (240mg/m3) (CL)	orl-rat 908mg/kg
26.	Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-95-3	N/A	orl-rat 108mg/kg
27.	1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	100 ppm	orl-rat 725mg/kg
28.	2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	N/A	N/A
29.	Tetrachloroethene	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	2018.6	20.6	127-18-4	25 ppm (170mg/m3/8H)(final)	orl-rat 2629mg/kg
30.	1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8H)	orl-rat 10300mg/kg
31.	1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40016.5	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-8	0.001 ppm	orl-rat 170mg/kg
32.	1,2-Dibromoethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.7	22.9	106-93-4	20 ppm (8H)	orl-rat 108mg/kg
33.	1,2-Dichloroethane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	107-06-2	50 ppm (8H)	orl-rat 670mg/kg
34.	1,2-Dichloropropane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2002.0	22.9	78-87-5	75 ppm (350mg/m3/8H)	orl-rat 1947mg/kg
35.	1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	N/A	unr-mus 3600mg/kg
36.	1,1-Dichloropropene	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	29.7	563-58-6	N/A	N/A
37.	cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10061-01-5	N/A	N/A
38.	trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.6	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10061-02-6	N/A	N/A
39.	Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.6	29.7	87-68-3	0.02 ppm (0.24mg/m3/8H)	orl-rat 82mg/kg
40.	1,1,1,2-Tetrachloroethane	35161	112322	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.1	22.9	630-20-6	N/A	orl-rat 670mg/kg
41.	1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	79-34-5	5 ppm (35mg/m3/8H)(skin)	orl-rat 800mg/kg
42.	1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (45mg/m3/8H)(skin)	orl-rat 836mg/kg
43.	Trichloroethene	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-6	50 ppm (270mg/m3/8H)	orl-mus 2402mg/kg
44.	1,2,3-Trichloropropane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	96-18-4	10 ppm (60mg/m3/8H)	orl-rat 149.6mg/kg
45.	Benzene	35162	050823	0.05	5.00	40005.0	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	orl-rat 4894mg/kg
46.	Bromobenzene	35162	050823	0.05	5.00	40006.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-86-1	N/A	orl-rat 2699mg/kg
47.	n-Butyl benzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	104-51-8	N/A	N/A
48.	Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8H)	orl-rat >2000mg/kg
49.	p-Isopropyl toluene	35162	050823	0.05	5.00	40005.6	2000	NA	NA	0.017	NA	NA	1999.8	22.9	99-87-6	N/A	orl-rat 4750mg/kg
50.	Naphthalene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8H)	orl-rat 490mg/kg
51.	Styrene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-42-5	100 ppm	orl-rat 5000mg/kg
52.	Toluene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-88-3	200 ppm	orl-rat 5000mg/kg
53.	1,2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	87-61-6	N/A	ipr-mus 1260mg/kg
54.	1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	120-82-1	5 ppm (CL) (40mg/m3)	orl-rat 756mg/kg
55.	1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.6	2000	NA	NA	0.017	NA	NA	1999.6	23.0	95-63-6	N/A	orl-rat 5g/kg
56.	1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-67-8	N/A	orl-rat 5000mg/kg
57.	m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-38-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg
58.	tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.6	22.9	98-06-6	N/A	N/A
59.	sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	22.9	135-98-8	N/A	orl-rat 2240mg/kg
60.	Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-90-7	75 ppm (350mg/m3/8H)	orl-rat 2290mg/kg
61.	2-Chlorotoluene	35163	101923	0.05	5.00	40000.3	2000	NA	NA	0.017	NA	NA	1999.5	22.9	95-49-8	50 ppm (250mg/m3/8H)	orl-rat 3900mg/kg
62.	4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-43-4	N/A	orl-rat 2100mg/kg
63.	1,2-Dichlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-50-1	50 ppm (300mg/m3) (CL)	orl-rat 500mg/kg
64.	1,3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	23.0	541-73-1	N/A	ipr-mus 1062mg/kg
65.	1,4-Dichlorobenzene	35163	101923	0.05	5.00	40001.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	106-46-7	75 ppm (450mg/m3/8H)	orl-rat 500mg/kg
66.	Isopropylbenzene	35163	101923	0.05	5.00	40000.8	2000	NA	NA	0.017	NA	NA	1999.5	22.9	98-82-8	50 ppm (245mg/m3/8H)	orl-rat 1400mg/kg
67.	n-Propylbenzene	35163	101923	0.05	5.00	40003.4	2000	NA	NA	0.017	NA	NA	1999.7	23.0	103-65-1	N/A	orl-rat 6040mg/kg
68.	o-Xylene	35163	101923	0.05	5.00	40040.8	2000	NA	NA	0.017	NA	NA	2001.5	23.0	95-47-6	100 ppm (435mg/m3/8H)	ipr-mus 1364mg/kg
69.	p-Xylene	35163	101923	0.05	5.00	40000.6	2000	NA	NA	0.017	NA	NA	1999.5	22.9	106-42-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty References: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Run 17, "P95317 L021524 [2000µg/mL in MeOH]"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 10:04:27 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

Comments
GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydrogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=6.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3



Peak #	Name	FID RT (min.)
1	Ether	9.97
2	1,1,2-Trichloro-1,2,2-trifluoroethane	10.33
3	1,1-Dichloroethene	11.10
4	Acetonitrile	12.00
5	Iodomethane	12.31
6	Allyl chloride	12.56
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethene	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.74
11	cis-1,2-Dichloroethene	18.00
12	Methacrylonitrile/Methyl acrylate/Chloroform	18.49
13	Isobutanol/1,1,1-Trichloroethane	19.91
14	1,1-Dichloropropene	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.48
17	Trichloroethene	23.58
18	1,2-Dichloropropane	24.26
19	Methyl methacrylate	24.52
20	Bromodichloromethane	25.13
21	Dibromomethane/2-Nitropropane	25.46
22	cis-1,3-Dichloropropene	27.02
23	Toluene	28.05
24	Ethyl methacrylate/trans-1,3-Dichloropropene	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethene/1,3-Dichloropropene	30.24
27	Dibromochloromethane	31.16
28	1,2-Dibromoethane	31.84
29	Chlorobenzene	33.26
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.40
31	m-Xylene/p-Xylene	33.66
32	o-Xylene	33.22
33	Styrene	35.39
34	Isopropylbenzene/Bromoform	36.48
35	cis-1,4-Dichloro-2-butene	36.80
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,3-Trichloropropane	37.77
38	n-Propylbenzene	37.92
39	trans-1,4-Dichloro-2-butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.50
42	2-Chlorotoluene	38.62
43	4-Chlorotoluene	38.77
44	tert-Butylbenzene	39.76
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropyltoluene	41.02
49	1,3-Dichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.83
51	n-Butylbenzene	42.52
52	1,2-Dichlorobenzene	43.10
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.48
55	1,2,4-Trichlorobenzene	48.26
56	Hexachlorobutadiene	49.22
57	Naphthalene	50.26
58	1,2,3-Trichlorobenzene	51.16

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Certified Reference Material CRM

Rec 09/17/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95317
Lot Number: 021624
Description: Universal VOA Megamix
69 components
Expiration Date: 021627
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 6UTB

Solvent(s): Lot#
Methanol EG359-USQ12

Weight(s) shown below were combined and diluted to (mL):	100.0	0.021	Flask Uncertainty	5E-05 Balance Uncertainty

Formulated By: Prashant Chauhan 021624 DATE

Reviewed By: Pedro L. Rentas 021624 DATE

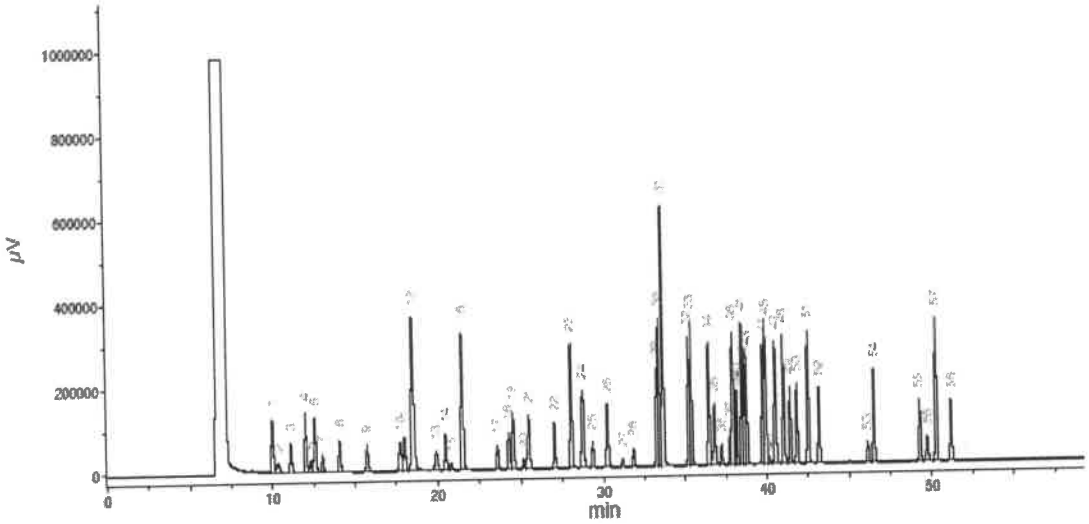
Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(ug/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20020	2001.3	8.1	75-05-8	40 ppm (70mg/m3/8H)	orl-rat 2460mg/kg
2. Allyl chloride (3-Chloropropene)	(0325)	102396	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	107-05-1	1 ppm (3mg/m3/8H)	orl-rat 700mg/kg
3. Carbon disulphide	(0060)	MKCR8561	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20023	2001.6	8.1	75-15-0	4 ppm (12mg/m3) (skin)	orl-rat 1200mg/kg
4. cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21058	0.21069	2001.1	8.5	1476-11-5	N/A	N/A
5. trans-1,4-Dichloro-2-butene	(0466)	MKBP6041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20748	2001.7	8.4	110-57-6	N/A	N/A
6. Diethyl ether	(0153)	IK18CAS0000	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	60-29-7	N/A	N/A
7. Ethyl methacrylate	(0381)	06128PX	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	97-63-2	N/A	orl-rat 14800mg/kg
8. Iodomethane	(0489)	SHBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20121	2001.5	8.2	74-88-4	5 ppm(28mg/m3/8H)(skin)	orl-rat 76mg/kg
9. 2-Methyl-1-propanol	(0445)	15241EB	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20120	2001.4	8.1	78-83-1	50 ppm (150mg/m3/8H)	orl-rat 2460mg/kg
10. Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	126-98-7	1 ppm (3mg/m3/8H)(skin)	orl-rat 120mg/kg
11. Methyl acrylate	(1075)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	96-33-3	10 ppm(35mg/m3/8H)(skin)	orl-rat 277mg/kg
12. Methyl methacrylate	(0404)	MKBW5137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20041	2001.6	8.1	80-62-6	100 ppm (410mg/m3/8H)	orl-rat 7872mg/kg
13. Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20220	2001.3	8.2	98-95-3	1 ppm (5mg/m3/8H)(skin)	orl-rat 780mg/kg
14. 2-Nitropropane	(0461)	14002JX	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	79-46-9	10 ppm (35mg/m3/8H)	orl-rat 720mg/kg
15. Pentachloroethane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.6	8.3	76-01-7	N/A	N/A
16. 1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20225	2001.8	8.2	76-13-1	1000 ppm (7600mg/m3/8H)	orl-rat 43g/kg
17. Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	N/A	orl-rat 916mg/kg
18. Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	N/A	orl-rat 846mg/kg
19. cis-1,2-Dichloroethene	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	156-59-2	N/A	N/A
20. trans-1,2-Dichloroethene	35171	101623	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	156-60-5	N/A	orl-rat 1235mg/kg
21. Methylene chloride	35171	101623	0.05	5.00	40002.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-09-2	500 ppm	orl-rat 820mg/kg
22. 1,1-Dichloroethene	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.7	20.4	75-35-4	1 ppm (4mg/m3/8H)	orl-rat 200mg/kg
23. Bromoform	95321	020724	0.10	10.00	20003.2	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-25-2	0.5 ppm (5mg/m3) (skin)	orl-rat 933mg/kg
24. Carbon tetrachloride	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	56-23-5	2 ppm (12.6mg/m3/8H)	orl-rat 2350mg/kg
25. Chloroform	95321	020724	0.10	10.00	20024.0	2000	NA	NA	0.042	NA	NA	2001.9	20.5	67-66-3	50 ppm (240mg/m3) (CL)	orl-rat 908mg/kg
26. Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-95-3	N/A	orl-rat 108mg/kg
27. 1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	100 ppm	orl-rat 725mg/kg
28. 2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	N/A	N/A
29. Tetrachloroethene	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	2019.6	20.8	127-18-4	25 ppm (170mg/m3/8H)(final)	orl-rat 2629mg/kg
30. 1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8H)	orl-rat 10300mg/kg
31. 1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40016.5	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-8	0.001 ppm	orl-rat 170mg/kg
32. 1,2-Dibromoethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.7	22.9	106-93-4	20 ppm (8H)	orl-rat 108mg/kg
33. 1,2-Dichloroethane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	107-06-2	50 ppm (8H)	orl-rat 670mg/kg
34. 1,2-Dichloropropane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2002.0	22.9	78-87-5	75 ppm (350mg/m3/8H)	orl-rat 1947mg/kg
35. 1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	N/A	unr-mus 3600mg/kg
36. 1,1-Dichloropropene	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	29.7	563-58-6	N/A	N/A
37. cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10061-01-5	N/A	N/A
38. trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.6	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10061-02-6	N/A	N/A
39. Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.6	29.7	87-68-3	0.02 ppm (0.24mg/m3/8H)	orl-rat 82mg/kg
40. 1,1,1,2-Tetrachloroethane	35161	112322	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.1	22.9	630-20-6	N/A	orl-rat 670mg/kg
41. 1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	79-34-5	5 ppm (35mg/m3/8H)(skin)	orl-rat 800mg/kg
42. 1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (45mg/m3/8H)(skin)	orl-rat 836mg/kg
43. Trichloroethene	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-6	50 ppm (270mg/m3/8H)	orl-mus 2402mg/kg
44. 1,2,3-Trichloropropane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	96-18-4	10 ppm (60mg/m3/8H)	orl-rat 149.6mg/kg
45. Benzene	35162	050823	0.05	5.00	40005.0	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	orl-rat 4894mg/kg
46. Bromobenzene	35162	050823	0.05	5.00	40006.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-86-1	N/A	orl-rat 2699mg/kg
47. n-Butyl benzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	104-51-8	N/A	N/A
48. Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8H)	orl-rat >2000mg/kg
49. p-Isopropyl toluene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	99-87-6	N/A	orl-rat 4750mg/kg
50. Naphthalene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8H)	orl-rat 490mg/kg
51. Styrene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-42-5	100 ppm	orl-rat 5000mg/kg
52. Toluene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-88-3	200 ppm	orl-rat 5000mg/kg
53. 1,2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	87-61-6	N/A	ipr-mus 1390mg/kg
54. 1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	120-82-1	5 ppm (CL) (40mg/m3)	orl-rat 756mg/kg
55. 1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.6	2000	NA	NA	0.017	NA	NA	1999.6	23.0	95-63-6	N/A	orl-rat 5g/kg
56. 1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-67-8	N/A	orl-rat 5000mg/kg
57. m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-38-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg
58. tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	98-06-6	N/A	N/A
59. sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.8	22.9	135-98-8	N/A	orl-rat 2240mg/kg
60. Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-90-7	75 ppm (350mg/m3/8H)	orl-rat 2290mg/kg
61. 2-Chlorotoluene	35163	101923	0.05	5.00	40000.3	2000	NA	NA	0.017	NA	NA	1999.5	22.9	95-49-8	50 ppm (250mg/m3/8H)	orl-rat 3900mg/kg
62. 4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-43-4	N/A	orl-rat 2100mg/kg
63. 1,2-Dichlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-50-1	50 ppm (300mg/m3) (CL)	orl-rat 500mg/kg
64. 1,3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	23.0	541-73-1	N/A	ipr-mus 1062mg/kg
65. 1,4-Dichlorobenzene	35163	101923	0.05	5.00	40001.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	106-46-7	75 ppm (450mg/m3/8H)	orl-rat 500mg/kg
66. Isopropylbenzene	35163	101923	0.05	5.00	40000.8	2000	NA	NA	0.017	NA	NA	1999.5	22.9	98-82-8	50 ppm (245mg/m3/8H)	orl-rat 1400mg/kg
67. n-Propylbenzene	35163	101923	0.05	5.00	40003.4	2000	NA	NA	0.017	NA	NA	1999.7	23.0	103-65-1	N/A	orl-rat 8040mg/kg
68. o-Xylene	35163	101923	0.05	5.00	40040.8	2000	NA	NA	0.017	NA	NA	2001.5	23.0	95-47-6	100 ppm (435mg/m3/8H)	ipr-mus 1364mg/kg
69. p-Xylene	35163	101923	0.05	5.00	40000.8	2000	NA	NA	0.017	NA	NA	1999.5	22.9	106-42-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Run 16, "P95317 L021624 (2000µg/mL in MeOH)"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 8:56:46 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

Comments
GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3



Peak #	Name	FID RT (min.)
1	Ether	6.97
2	1,1,2-Trichloro-1,2,3-trifluoroethane	10.33
3	1,1-Dichloroethene	11.10
4	Acetonitrile	12.00
5	Iodomethane	12.31
6	Allyl chloride	12.56
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethene	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.74
11	cis-1,2-Dichloroethene	18.00
12	Methacrylonitrile/Methyl acrylate/Chloroform	18.49
13	Isobutanol/1,1,1-Trichloroethane	18.91
14	1,1-Dichloropropene	19.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.48
17	Trichloroethene	23.86
18	1,2-Dichloropropane	24.26
19	Methyl methacrylate	24.62
20	Bromodichloromethane	25.13
21	Dibromomethane/2-Nitropropane	25.46
22	cis-1,3-Dichloropropene	27.07
23	Toluene	28.09
24	Ethyl methacrylate/trans-1,3-Dichloropropene	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethene/1,3-Dichloropropane	30.34
27	Dibromochloromethane	31.16
28	1,2-Dibromoethane	31.84
29	Chlorobenzene	33.26
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.40
31	m-Xylene/p-Xylene	33.85
32	o-Xylene	35.33
33	Styrene	35.50
34	Isopropylbenzene/Bromoform	35.48
35	cis-1,4-Dichloro-2-butene	36.80
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,3-Trichloropropane	37.77
38	n-Propylbenzene	37.92
39	trans-1,4-Dichloro-2-butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.50
42	2-Chlorotoluene	38.62
43	4-Chlorotoluene	38.77
44	tert-Butylbenzene	39.76
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropyltoluene	41.02
49	1,3-Dichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.63
51	n-Butylbenzene	42.82
52	1,2-Dichlorobenzene	43.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.58
55	1,2,4-Trichlorobenzene	49.26
56	Hexachlorobutadiene	49.72
57	Naphthalene	50.26
58	1,2,3-Trichlorobenzene	51.16

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	**1-352-323-3500**
		Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	% (optional) > 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Storage Conditions	Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 09/17/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95317
Lot Number: 021624
Description: Universal VOA Megamix
69 components
Expiration Date: 021627
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 6UTB

Solvent(s): Lot#
Methanol EG359-USQ12

Weight(s) shown below were combined and diluted to (mL):	100.0	0.021	Flask Uncertainty	5E-05 Balance Uncertainty

Formulated By: Prashant Chauhan 021624 DATE

Reviewed By: Pedro L. Rentas 021624 DATE

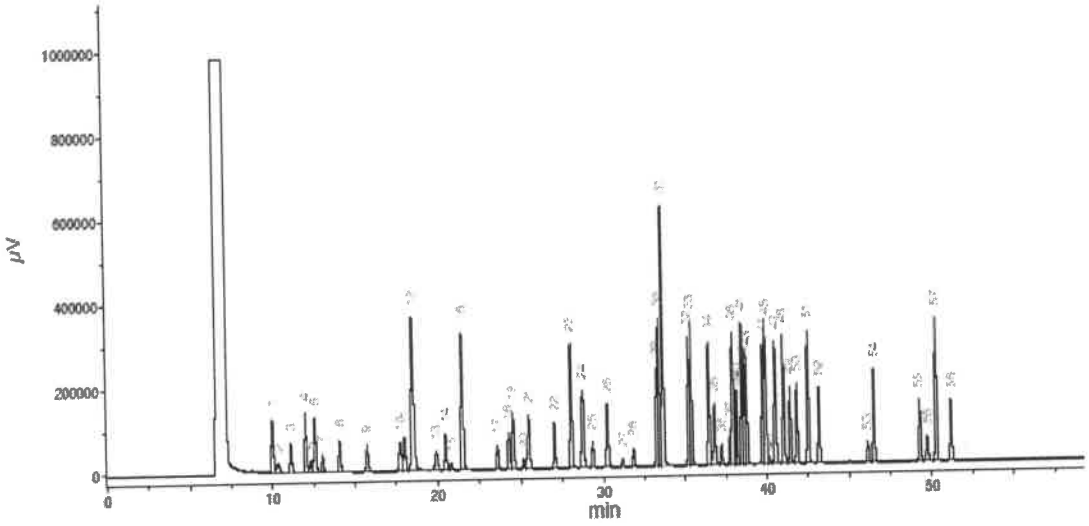
Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(ug/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20020	2001.3	8.1	75-05-8	40 ppm (70mg/m3/8H)	orl-rat 2460mg/kg
2. Allyl chloride (3-Chloropropene)	(0325)	102396	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	107-05-1	1 ppm (3mg/m3/8H)	orl-rat 700mg/kg
3. Carbon disulphide	(0060)	MKCR8561	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20023	2001.6	8.1	75-15-0	4 ppm (12mg/m3) (skin)	orl-rat 1200mg/kg
4. cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21058	0.21069	2001.1	8.5	1476-11-5	N/A	N/A
5. trans-1,4-Dichloro-2-butene	(0466)	MKBP6041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20748	2001.7	8.4	110-57-6	N/A	N/A
6. Diethyl ether	(0153)	IK18CAS0000	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	60-29-7	N/A	N/A
7. Ethyl methacrylate	(0381)	06128PX	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	97-63-2	N/A	orl-rat 14800mg/kg
8. Iodomethane	(0489)	SHBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20121	2001.5	8.2	74-88-4	5 ppm(28mg/m3/8H)(skin)	orl-rat 76mg/kg
9. 2-Methyl-1-propanol	(0445)	15241EB	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20120	2001.4	8.1	78-83-1	50 ppm (150mg/m3/8H)	orl-rat 2460mg/kg
10. Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	126-98-7	1 ppm (3mg/m3/8H)(skin)	orl-rat 120mg/kg
11. Methyl acrylate	(1075)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	96-33-3	10 ppm(35mg/m3/8H)(skin)	orl-rat 277mg/kg
12. Methyl methacrylate	(0404)	MKBW5137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20041	2001.6	8.1	80-62-6	100 ppm (410mg/m3/8H)	orl-rat 7872mg/kg
13. Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20220	2001.3	8.2	98-95-3	1 ppm (5mg/m3/8H)(skin)	orl-rat 780mg/kg
14. 2-Nitropropane	(0461)	14002JX	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	79-46-9	10 ppm (35mg/m3/8H)	orl-rat 720mg/kg
15. Pentachloroethane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.6	8.3	76-01-7	N/A	N/A
16. 1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20225	2001.8	8.2	76-13-1	1000 ppm (7600mg/m3/8H)	orl-rat 43g/kg
17. Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	N/A	orl-rat 916mg/kg
18. Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	N/A	orl-rat 846mg/kg
19. cis-1,2-Dichloroethene	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	156-59-2	N/A	N/A
20. trans-1,2-Dichloroethene	35171	101623	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	156-60-5	N/A	orl-rat 1235mg/kg
21. Methylene chloride	35171	101623	0.05	5.00	40002.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-09-2	500 ppm	orl-rat 820mg/kg
22. 1,1-Dichloroethene	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.7	20.4	75-35-4	1 ppm (4mg/m3/8H)	orl-rat 200mg/kg
23. Bromoform	95321	020724	0.10	10.00	20003.2	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-25-2	0.5 ppm (5mg/m3) (skin)	orl-rat 933mg/kg
24. Carbon tetrachloride	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	56-23-5	2 ppm (12.6mg/m3/8H)	orl-rat 2350mg/kg
25. Chloroform	95321	020724	0.10	10.00	20024.0	2000	NA	NA	0.042	NA	NA	2001.9	20.5	67-66-3	50 ppm (240mg/m3) (CL)	orl-rat 908mg/kg
26. Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-95-3	N/A	orl-rat 108mg/kg
27. 1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	100 ppm	orl-rat 725mg/kg
28. 2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	N/A	N/A
29. Tetrachloroethene	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	2019.6	20.8	127-18-4	25 ppm (170mg/m3/8H)(final)	orl-rat 2629mg/kg
30. 1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8H)	orl-rat 10300mg/kg
31. 1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40016.5	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-8	0.001 ppm	orl-rat 170mg/kg
32. 1,2-Dibromoethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.7	22.9	106-93-4	20 ppm (8H)	orl-rat 108mg/kg
33. 1,2-Dichloroethane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	107-06-2	50 ppm (8H)	orl-rat 670mg/kg
34. 1,2-Dichloropropane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2002.0	22.9	78-87-5	75 ppm (350mg/m3/8H)	orl-rat 1947mg/kg
35. 1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	N/A	unr-mus 3600mg/kg
36. 1,1-Dichloropropene	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	29.7	563-58-6	N/A	N/A
37. cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10061-01-5	N/A	N/A
38. trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.6	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10061-02-6	N/A	N/A
39. Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.6	29.7	87-68-3	0.02 ppm (0.24mg/m3/8H)	orl-rat 82mg/kg
40. 1,1,1,2-Tetrachloroethane	35161	112322	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.1	22.9	630-20-6	N/A	orl-rat 670mg/kg
41. 1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	79-34-5	5 ppm (35mg/m3/8H)(skin)	orl-rat 800mg/kg
42. 1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (45mg/m3/8H)(skin)	orl-rat 836mg/kg
43. Trichloroethene	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-6	50 ppm (270mg/m3/8H)	orl-mus 2402mg/kg
44. 1,2,3-Trichloropropane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	96-18-4	10 ppm (60mg/m3/8H)	orl-rat 149.6mg/kg
45. Benzene	35162	050823	0.05	5.00	40005.0	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	orl-rat 4894mg/kg
46. Bromobenzene	35162	050823	0.05	5.00	40006.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-86-1	N/A	orl-rat 2699mg/kg
47. n-Butyl benzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	104-51-8	N/A	N/A
48. Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8H)	orl-rat >2000mg/kg
49. p-Isopropyl toluene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	99-87-6	N/A	orl-rat 4750mg/kg
50. Naphthalene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8H)	orl-rat 490mg/kg
51. Styrene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-42-5	100 ppm	orl-rat 5000mg/kg
52. Toluene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-88-3	200 ppm	orl-rat 5000mg/kg
53. 1,2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	87-61-6	N/A	ipr-mus 1390mg/kg
54. 1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	120-82-1	5 ppm (CL) (40mg/m3)	orl-rat 756mg/kg
55. 1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.6	2000	NA	NA	0.017	NA	NA	1999.6	23.0	95-63-6	N/A	orl-rat 5g/kg
56. 1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-67-8	N/A	orl-rat 5000mg/kg
57. m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-38-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg
58. tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	98-06-6	N/A	N/A
59. sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.8	22.9	135-98-8	N/A	orl-rat 2240mg/kg
60. Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-90-7	75 ppm (350mg/m3/8H)	orl-rat 2290mg/kg
61. 2-Chlorotoluene	35163	101923	0.05	5.00	40000.3	2000	NA	NA	0.017	NA	NA	1999.5	22.9	95-49-8	50 ppm (250mg/m3/8H)	orl-rat 3900mg/kg
62. 4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-43-4	N/A	orl-rat 2100mg/kg
63. 1,2-Dichlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-50-1	50 ppm (300mg/m3) (CL)	orl-rat 500mg/kg
64. 1,3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	23.0	541-73-1	N/A	ipr-mus 1062mg/kg
65. 1,4-Dichlorobenzene	35163	101923	0.05	5.00	40001.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	106-46-7	75 ppm (450mg/m3/8H)	orl-rat 500mg/kg
66. Isopropylbenzene	35163	101923	0.05	5.00	40000.8	2000	NA	NA	0.017	NA	NA	1999.5	22.9	98-82-8	50 ppm (245mg/m3/8H)	orl-rat 1400mg/kg
67. n-Propylbenzene	35163	101923	0.05	5.00	40003.4	2000	NA	NA	0.017	NA	NA	1999.7	23.0	103-65-1	N/A	orl-rat 8040mg/kg
68. o-Xylene	35163	101923	0.05	5.00	40040.8	2000	NA	NA	0.017	NA	NA	2001.5	23.0	95-47-6	100 ppm (435mg/m3/8H)	ipr-mus 1364mg/kg
69. p-Xylene	35163	101923	0.05	5.00	40000.8	2000	NA	NA	0.017	NA	NA	1999.5	22.9	106-42-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Run 16, "P95317 L021624 (2000µg/mL in MeOH)"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 8:56:46 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

Comments
GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3



Peak #	Name	FID RT (min.)
1	Ether	9.97
2	1,1,2-Trichloro-1,2,3-trifluoroethane	10.33
3	1,1-Dichloroethene	11.10
4	Acetonitrile	12.00
5	Iodomethane	12.31
6	Allyl chloride	12.56
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethene	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.74
11	cis-1,2-Dichloroethene	18.00
12	Methacrylonitrile/Methyl acrylate/Chloroform	18.49
13	Isobutanol/1,1,1-Trichloroethane	18.91
14	1,1-Dichloropropene	19.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.48
17	Trichloroethene	23.86
18	1,2-Dichloropropane	24.26
19	Methyl methacrylate	24.62
20	Bromodichloromethane	25.13
21	Dibromomethane/2-Nitropropane	25.46
22	cis-1,3-Dichloropropene	27.02
23	Toluene	28.09
24	Ethyl methacrylate/trans-1,3-Dichloropropene	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethene/1,3-Dichloropropane	30.34
27	Dibromochloromethane	31.16
28	1,2-Dibromoethane	31.84
29	Chlorobenzene	33.26
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.40
31	m-Xylene/p-Xylene	33.85
32	o-Xylene	35.33
33	Styrene	35.50
34	Isopropylbenzene/Bromoform	35.48
35	cis-1,4-Dichloro-2-butene	36.80
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,3-Trichloropropane	37.77
38	n-Propylbenzene	37.92
39	trans-1,4-Dichloro-2-butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.50
42	2-Chlorotoluene	38.62
43	4-Chlorotoluene	38.77
44	tert-Butylbenzene	39.76
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropyltoluene	41.02
49	1,3-Dichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.63
51	n-Butylbenzene	42.82
52	1,2-Dichlorobenzene	43.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.58
55	1,2,4-Trichlorobenzene	49.26
56	Hexachlorobutadiene	49.72
57	Naphthalene	50.26
58	1,2,3-Trichlorobenzene	51.16

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr.	Emergency Telephone International	**1-352-323-3500**
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	% (optional) > 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Storage Conditions	Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

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Certified Reference Material CRM

Rec 09/16/24 2 Vials

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CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 091424
Description: Acrolein

Solvent(s): Water **Lot#** 072324Q

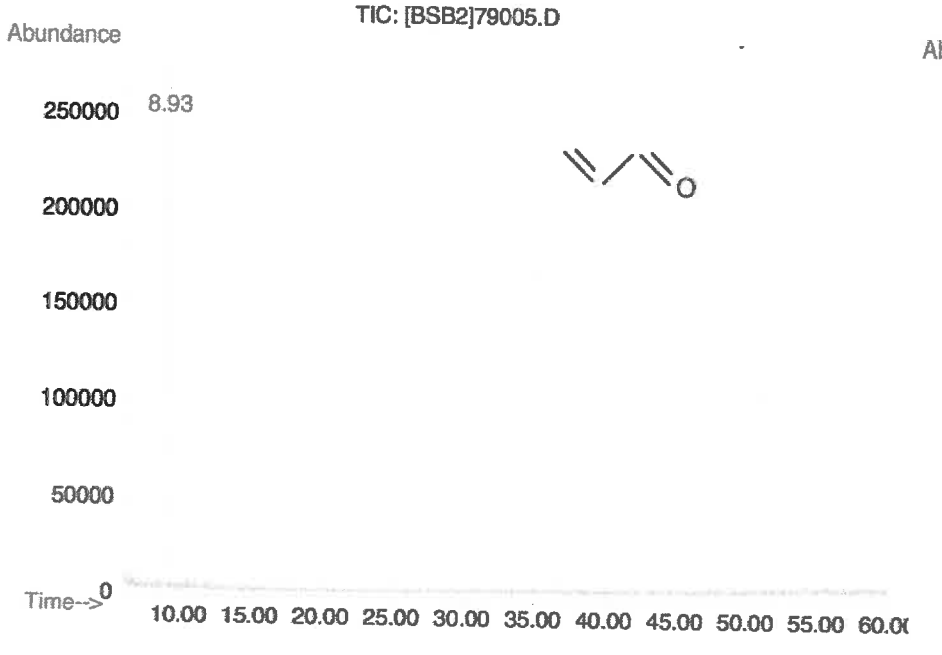
Expiration Date: 101424
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

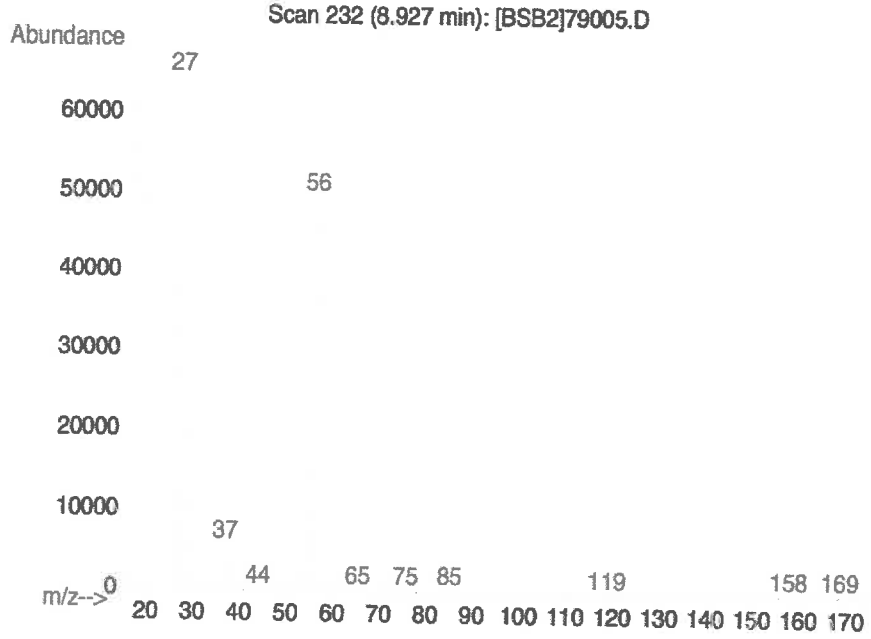
Weight(s) shown below were combined and diluted to (mL): 10.0 | 5E-05 Balance Uncertainty | 0.001 Flask Uncertainty

Justin Dippold	091424
Formulated By: Justin Dippold	DATE
Pedro Rentas	091424
Reviewed By: Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05175	5008.9	52.5	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





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800-368-1131
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Certified Reference Material CRM

Rec 09/16/24 2 Vials

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CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 091424
Description: Acrolein

Solvent(s): Water **Lot#** 072324Q

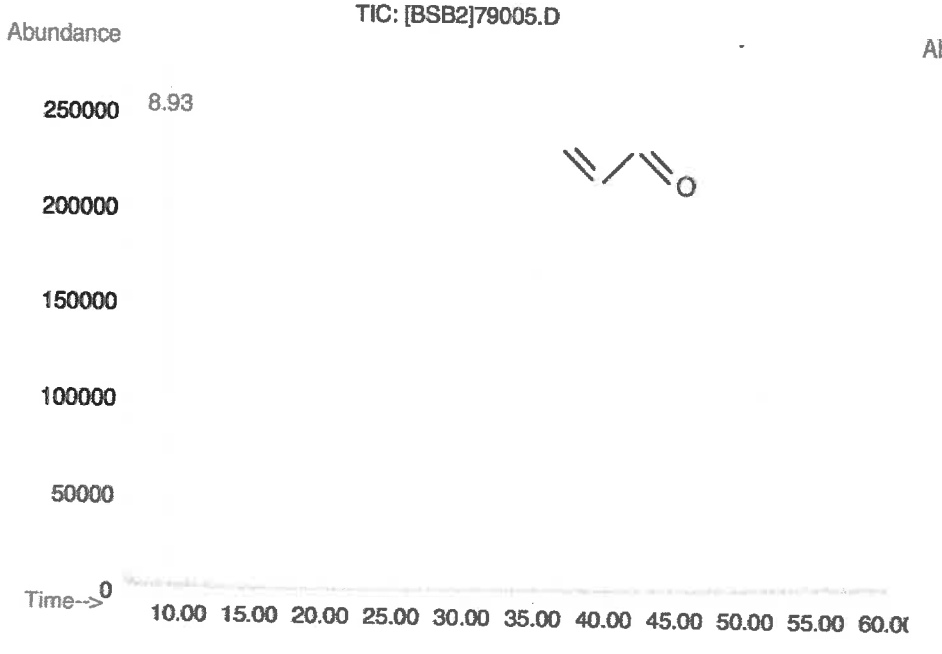
Expiration Date: 101424
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

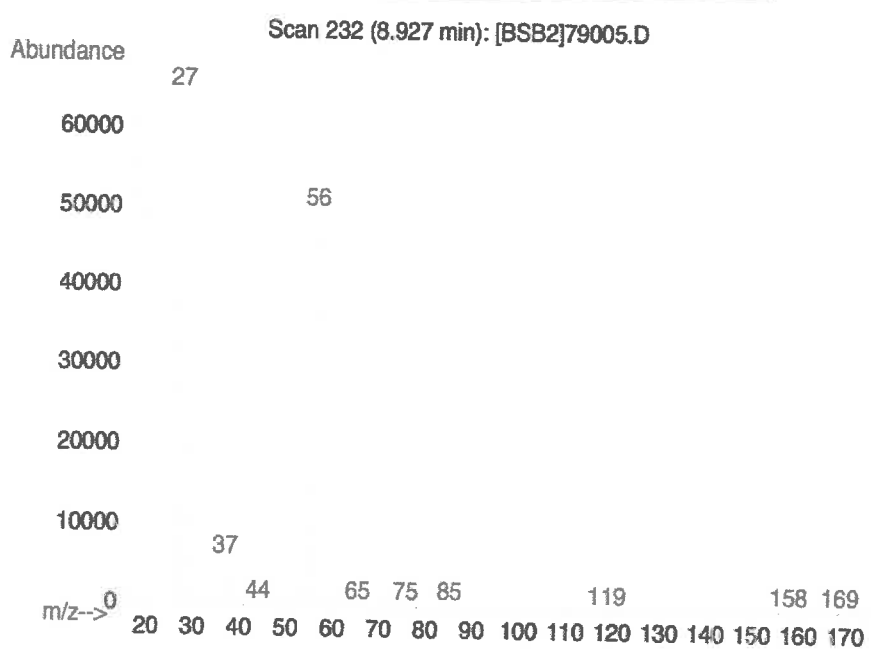
Weight(s) shown below were combined and diluted to (mL): 10.0 | 5E-05 Balance Uncertainty | 0.001 Flask Uncertainty

Justin Dippold	091424
Formulated By: Justin Dippold	DATE
Pedro Rentas	091424
Reviewed By: Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05175	5008.9	52.5	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





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CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 111722
Description: 2-Chloroethyl vinyl ether

Solvent(s): Methanol **Lot#** EB679-US

Expiration Date: 111725
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

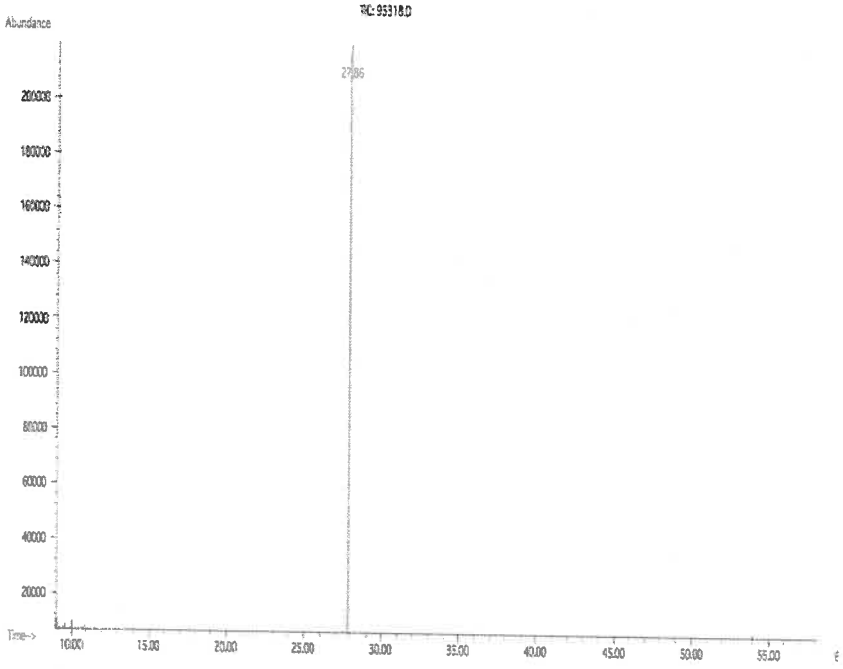
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

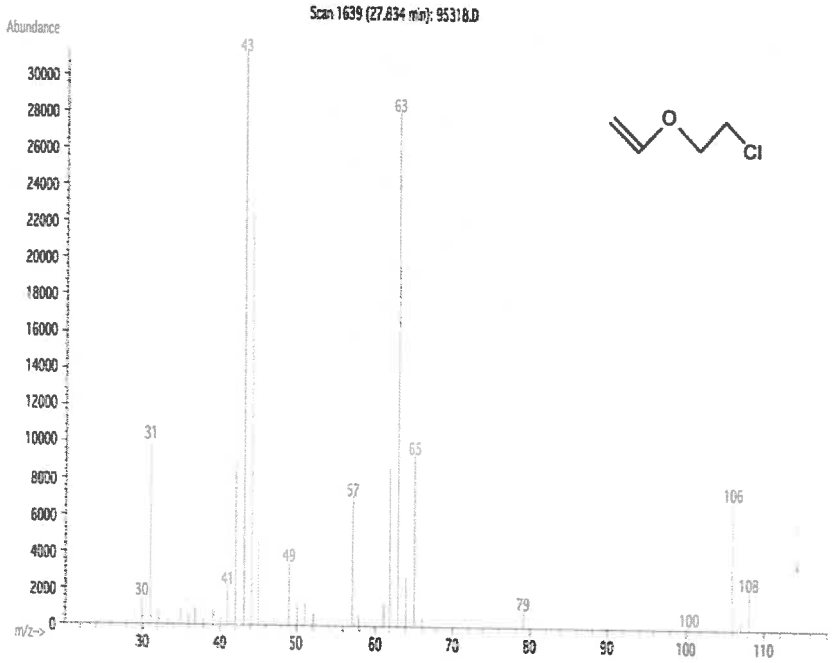
Weight(s) shown below were combined and diluted to (mL): 50.0

Formulated By:	Eli Aliaga	111722 DATE
Reviewed By:	Pedro L. Rentas	111722 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50541	0.50551	10001.9	40.5	110-75-8	N/A	orl-rat 250mg/kg

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.





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Certified Reference Material CRM

Rec 12/6/24
20 vial
V14630 to
V14649

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AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Expiration Date: 120527
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

Solvent(s): Methanol **Lot#** EJ143-US

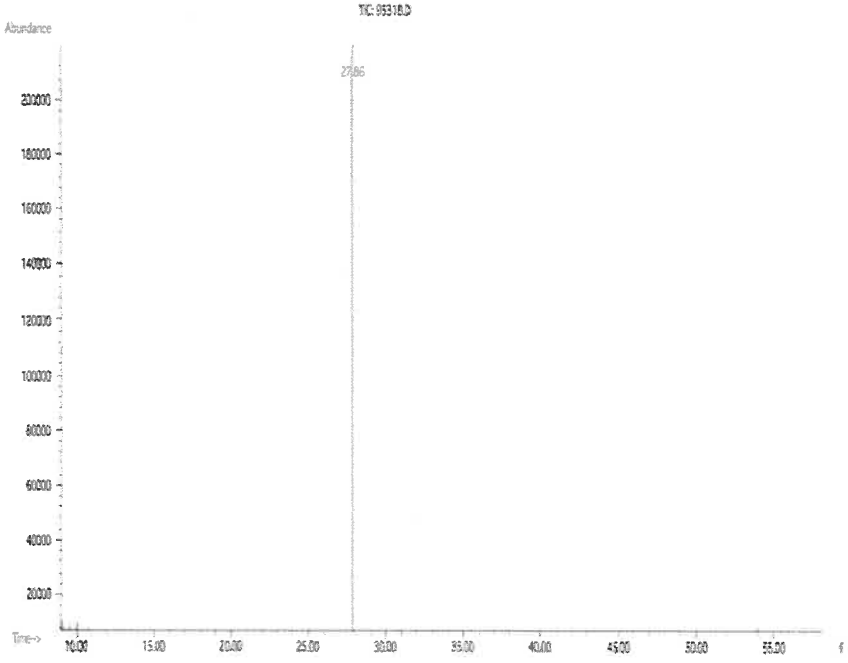
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

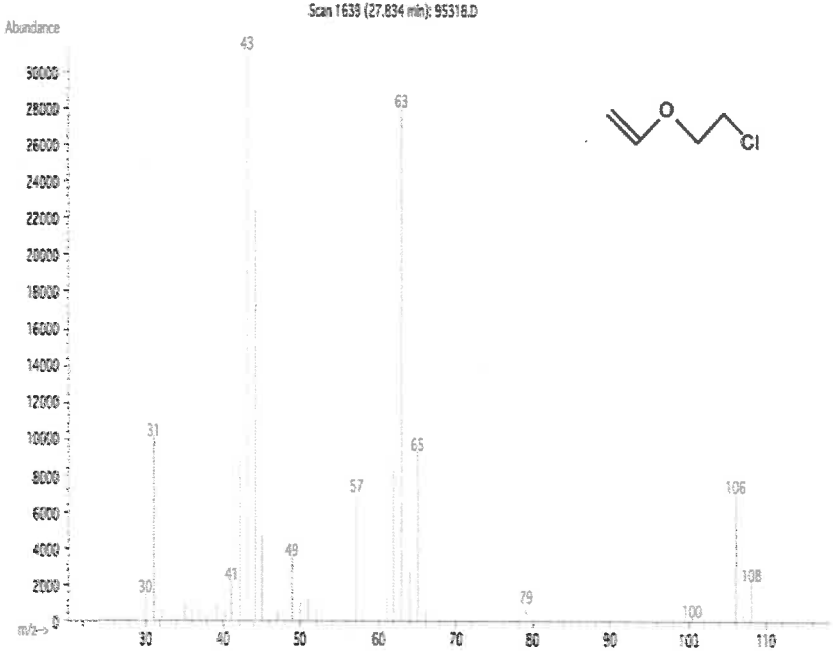
Prashant Chauhan 120524
Formulated By: Prashant Chauhan DATE

Pedro Rentas 120524
Reviewed By: Pedro L. Rentas DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.





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Absolute Standards Inc.
PO Box 5585
Hamden, CT 06518-0585
Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International Date Prepared/Revised	**1-352-323-3500** January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

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Certified Reference Material CRM

Rec 12/6/24
20 vial
V14630 to
V14649

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Expiration Date: 120527
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

Solvent(s): Methanol **Lot#** EJ143-US

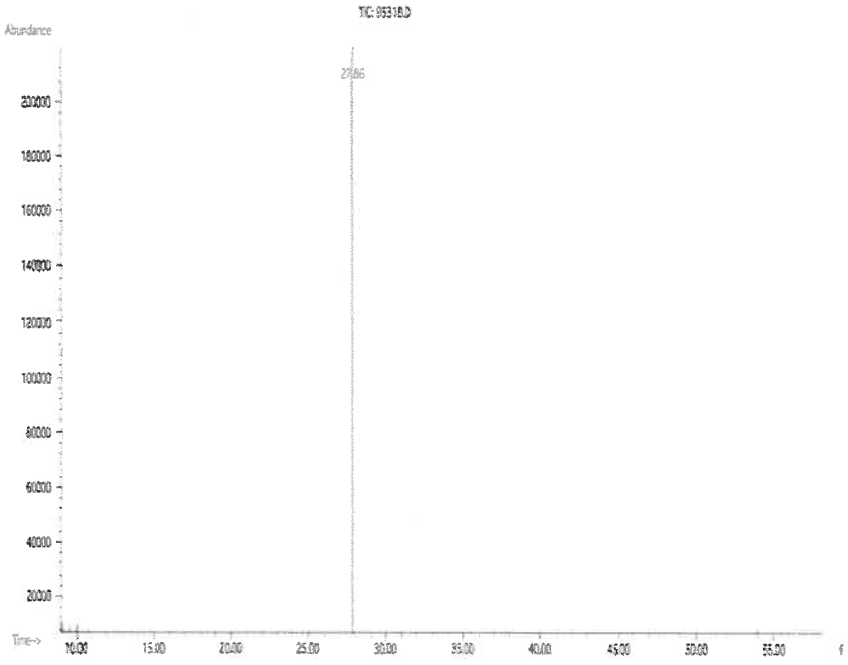
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

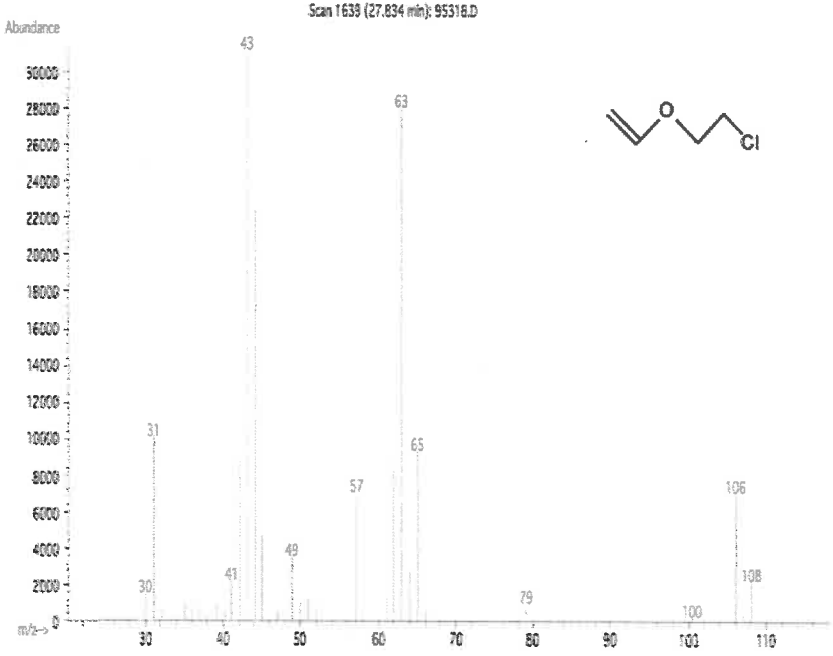
Prashant Chauhan 120524
Formulated By: Prashant Chauhan DATE

Pedro Rentas 120524
Reviewed By: Pedro L. Rentas DATE

	Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1.	2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
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- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Absolute Standards Inc.
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Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International Date Prepared/Revised	**1-352-323-3500** January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
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Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
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Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
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Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

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OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
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CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Expiration Date: 120527
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

Solvent(s): Methanol **Lot#** EJ143-US

V14630 to V14649

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

Formulated By:	Prashant Chauhan	120524 DATE
Reviewed By:	Pedro L. Rentas	120524 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
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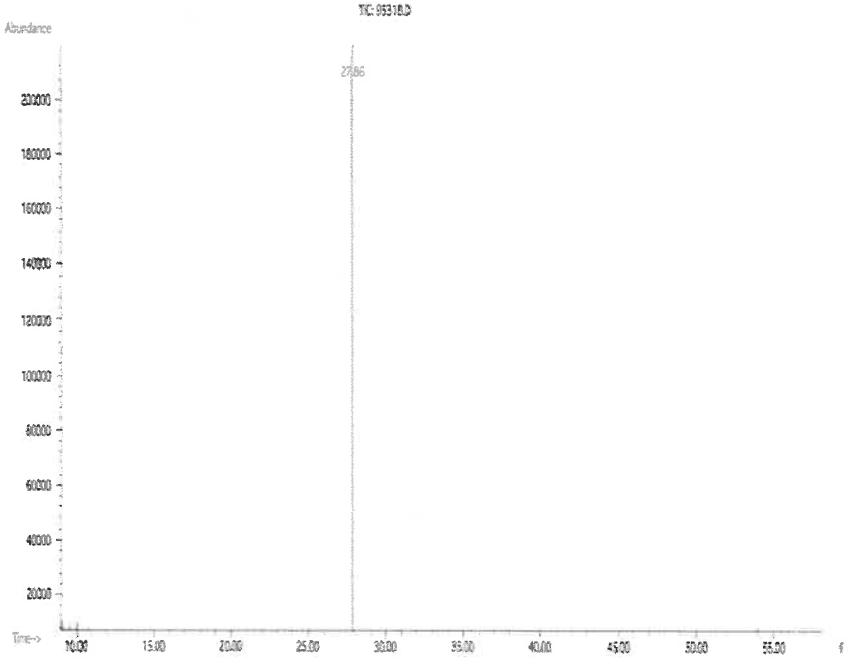

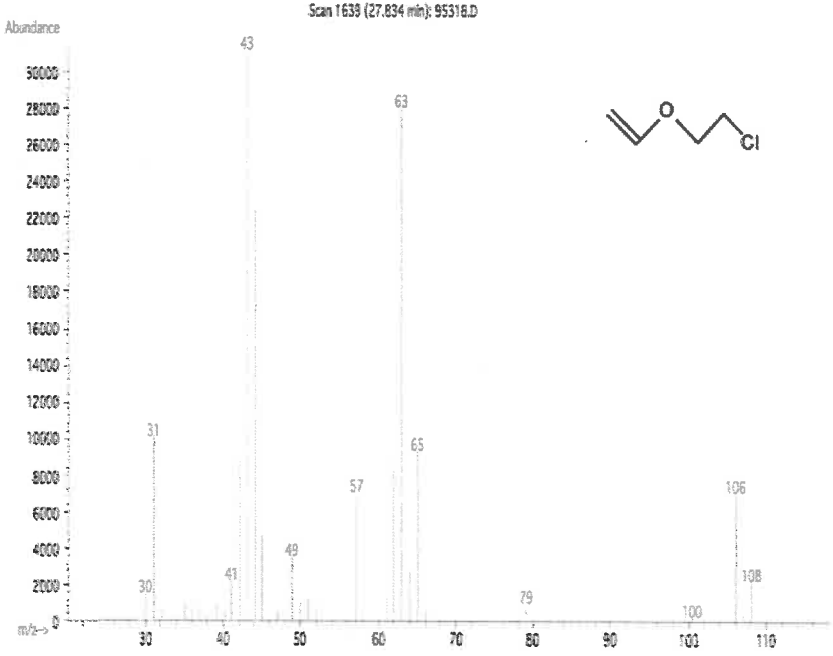

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UN number: 1230 Class: 3 Packing group: II
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Solvent(s): Methanol **Lot#** EJ143-US

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

Prashant Chauhan 120524
Formulated By: Prashant Chauhan DATE

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Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
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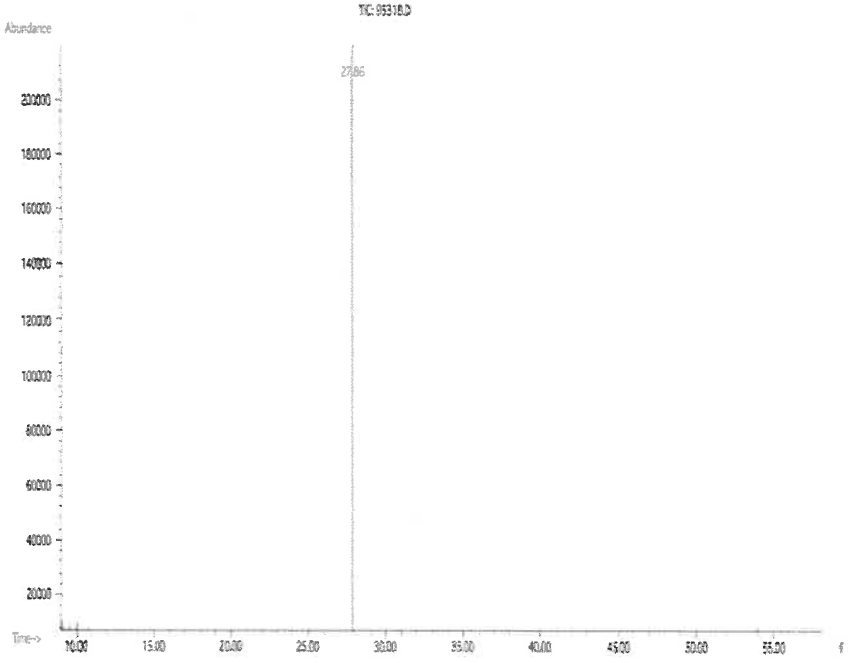

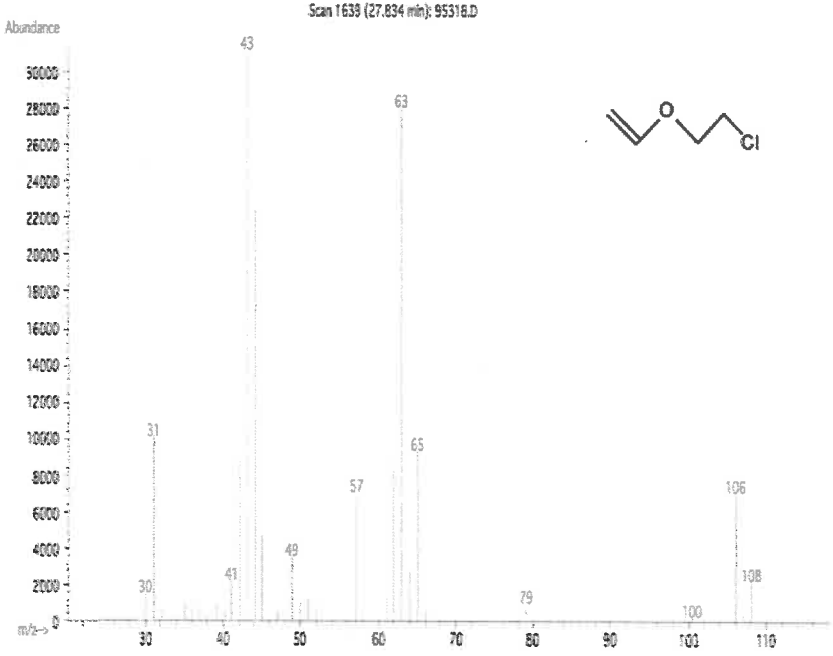

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Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International Date Prepared/Revised	**1-352-323-3500** January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability — Stable under recommended storage conditions.
Possibility of hazardous reactions — Vapours may form explosive mixture with air.
Conditions to avoid — Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid — Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

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RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30470 **Lot No.:** A0191703

Description : tert-Butanol Standard

tert-Butanol Std 50,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2025 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	tert-Butanol (TBA)	50,122.0 µg/mL	+/- 293.4753 µg/mL	Gravimetric
	CAS # 75-65-0 (Lot 101619K21F-1)		+/- 1,073.6797 µg/mL	Unstressed
	Purity 99%		+/- 1,104.8612 µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

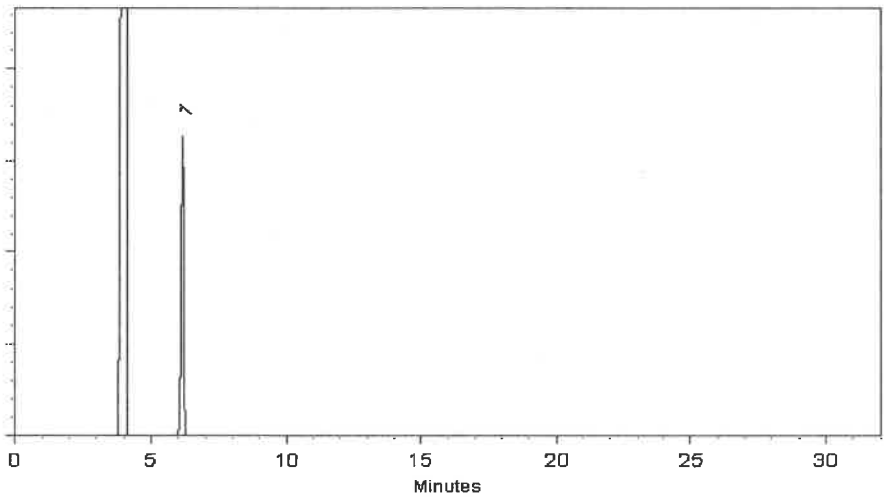
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Alicia Leathers - Operation Technician I

Date Mixed: 15-Nov-2022 **Balance:** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 17-Nov-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

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Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30067 **Lot No.:** A0191805

Description : 4-Bromofluorobenzene Standard

4-Bromofluorobenzene Standard 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Bromo-4-fluorobenzene (BFB)	460-00-4	184975	99%	2,483.9 µg/mL	+/- 139.5488

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

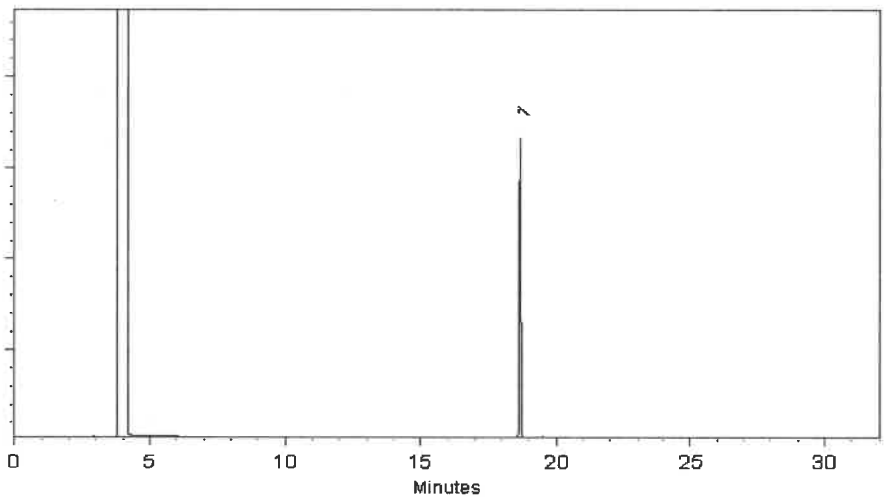
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Alicia Leathers - Operation Technician I

Date Mixed: 17-Nov-2022 **Balance Serial #** B251644995

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 21-Nov-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0193071

Description : Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	00008541	99%	2,018.0 µg/mL	+/- 113.3890

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

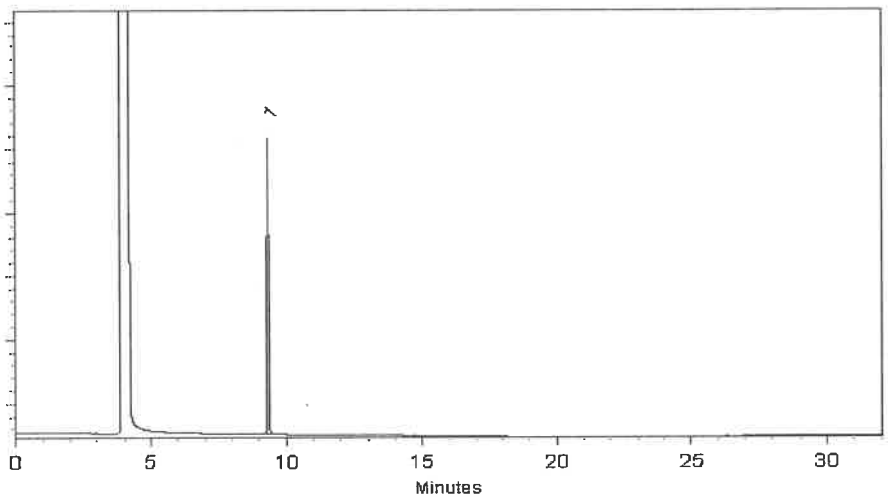
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2022 **Balance Serial #** B707717271

Christie Mills - Operations Tech II - ARM QC

Date Passed: 03-Jan-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

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ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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Catalog No. : 30225 **Lot No.:** A0193071

Description : Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	00008541	99%	2,018.0 µg/mL	+/- 113.3890

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

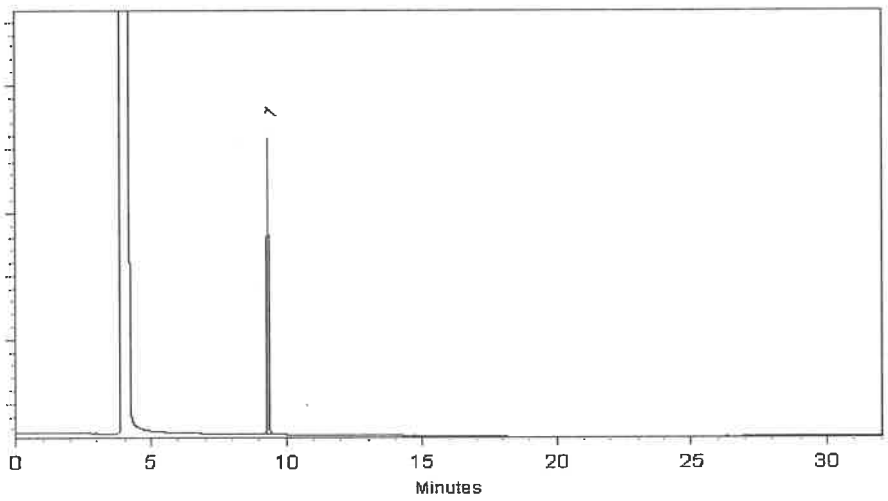
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



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Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2022 **Balance Serial #** B707717271

Christie Mills - Operations Tech II - ARM QC

Date Passed: 03-Jan-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

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- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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Certificate #3222.02

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Catalog No. : 30225 **Lot No.:** A0193071

Description : Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	00008541	99%	2,018.0 µg/mL	+/- 113.3890

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

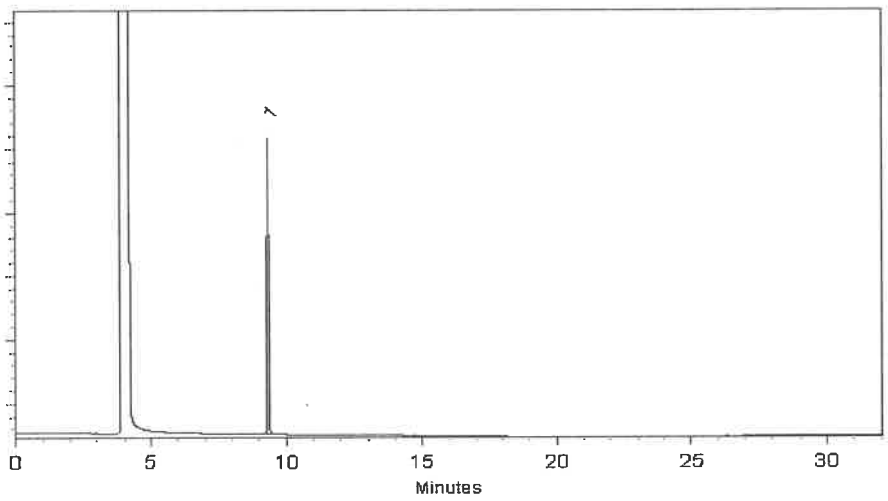
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2022 **Balance Serial #** B707717271

Christie Mills - Operations Tech II - ARM QC

Date Passed: 03-Jan-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0193071

Description : Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	00008541	99%	2,018.0 µg/mL	+/- 113.3890

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

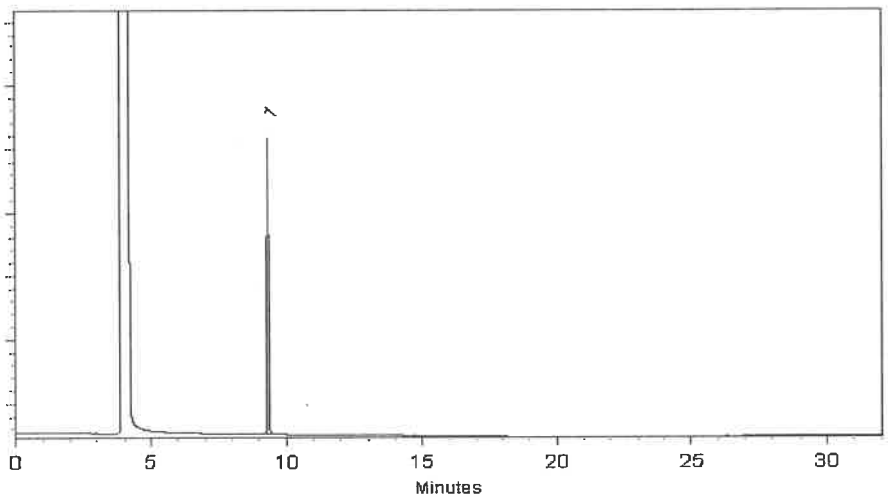
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2022 **Balance Serial #** B707717271

Christie Mills - Operations Tech II - ARM QC

Date Passed: 03-Jan-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0193887

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBP8774	99%	5,006.5 µg/mL	+/- 173.0015
2	2-Butanone (MEK)	78-93-3	SHBN9536	99%	5,008.5 µg/mL	+/- 173.0706
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP4724	99%	5,000.3 µg/mL	+/- 172.7884
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,001.7 µg/mL	+/- 172.8345

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

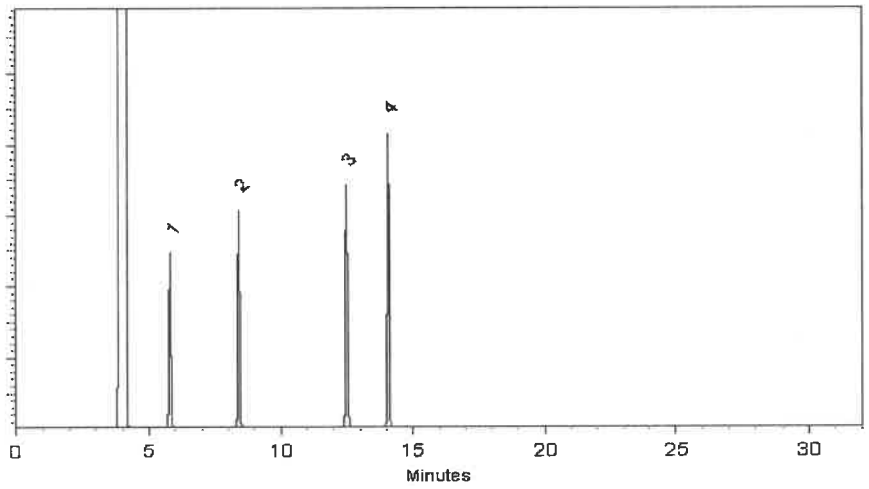
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Josh McCloskey - Operations Technician I

Date Mixed: 24-Jan-2023 **Balance Serial #** B707717271

Christie Mills - Operations Tech II - ARM QC

Date Passed: 27-Jan-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

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  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555582 **Lot No.:** A0196865

Description : Custom 8260A/B Surrogate Mix

Custom 8260A/B Surrogate Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2-Dichloroethane-d4	17060-07-0	PR-32845	99%	25,036.0 µg/mL	+/- 1,417.9179
2	1-Bromo-4-fluorobenzene (BFB)	460-00-4	184975	99%	25,132.0 µg/mL	+/- 1,423.3549
3	Dibromofluoromethane	1868-53-7	022013	99%	25,040.0 µg/mL	+/- 1,418.1445
4	Toluene-d8	2037-26-5	PR-33397	99%	25,028.0 µg/mL	+/- 1,417.4648

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Russ Bookhamer - Operations Technician I

Date Mixed: 11-Apr-2023 **Balance:** 1127510105

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

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Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042 **Lot No.:** A0197644

Description : 502.2 Calibration Mix #1

502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : January 31, 2030 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00012554	99%	2,001.6 µg/mL	+/- 112.7159
2	Chloromethane (methyl chloride)	74-87-3	SHBM9611	99%	2,002.0 µg/mL	+/- 112.7840
3	Vinyl chloride	75-01-4	00015559	99%	2,002.2 µg/mL	+/- 112.6713
4	Bromomethane (methyl bromide)	74-83-9	101604	99%	2,006.4 µg/mL	+/- 112.8861
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,000.9 µg/mL	+/- 112.5990
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCL8411	99%	1,999.2 µg/mL	+/- 112.4861

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

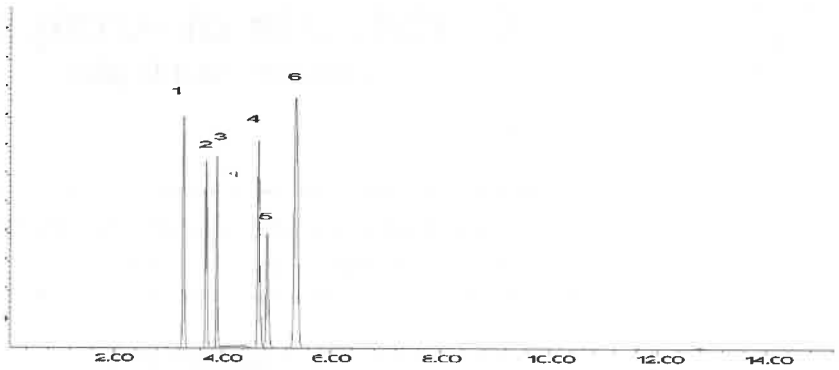
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD

Split Vent:
Split ratio 10:1

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brittany Federinko - Operations Tech I

Date Mixed: 02-May-2023 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 08-May-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

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- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30489 **Lot No.:** A0205013

Description : 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2025 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Methyl acetate	79-20-9	SHBP3100	99%	2,012.7 µg/mL	+/- 69.5670
2	Vinyl acetate	108-05-4	RP231030CTH	98%	2,017.5 µg/mL	+/- 69.7338
3	Ethyl acetate	141-78-6	SHBQ9682	99%	2,020.0 µg/mL	+/- 69.8205
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,018.7 µg/mL	+/- 69.7744
5	Propyl acetate	109-60-4	KLOBM	99%	2,012.0 µg/mL	+/- 69.5439
6	Butyl acetate	123-86-4	SHBP6314	99%	2,020.0 µg/mL	+/- 69.8205
7	Amyl acetate	628-63-7	41325/1	97%	2,019.5 µg/mL	+/- 69.8046

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

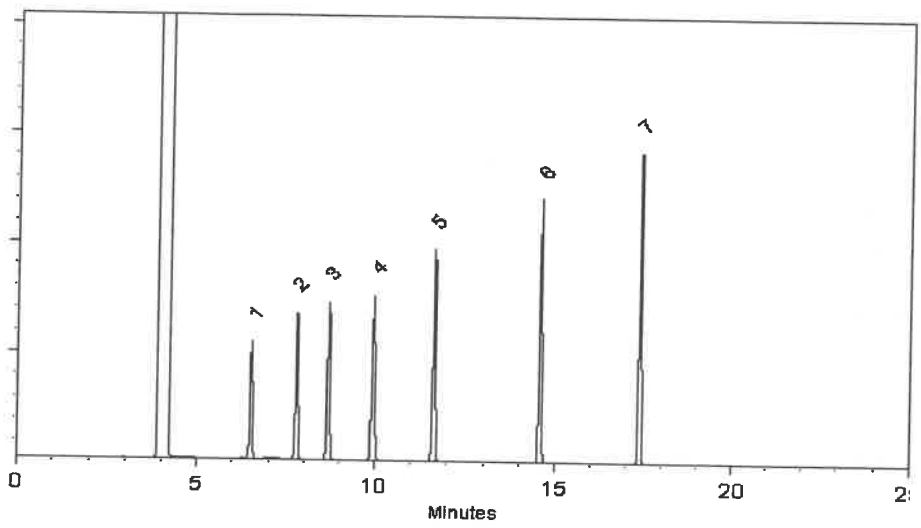
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brittany Federinko - Operations Tech I

Date Mixed: 04-Dec-2023 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 06-Dec-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Certificate #3222.02

Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30489 **Lot No.:** A0209618

Description : 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Methyl acetate	79-20-9	SHBP3100	99%	2,019.3 µg/mL	+/- 69.7974
2	Vinyl acetate	108-05-4	RP231030CTH	98%	2,016.8 µg/mL	+/- 69.7112
3	Ethyl acetate	141-78-6	SHBQ9682	99%	2,010.7 µg/mL	+/- 69.4979
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,016.0 µg/mL	+/- 69.6822
5	Propyl acetate	109-60-4	P8XLN	99%	2,008.0 µg/mL	+/- 69.4057
6	Butyl acetate	123-86-4	SHBP6314	99%	2,007.3 µg/mL	+/- 69.3826
7	Amyl acetate	628-63-7	41325/1	97%	2,004.7 µg/mL	+/- 69.2905

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

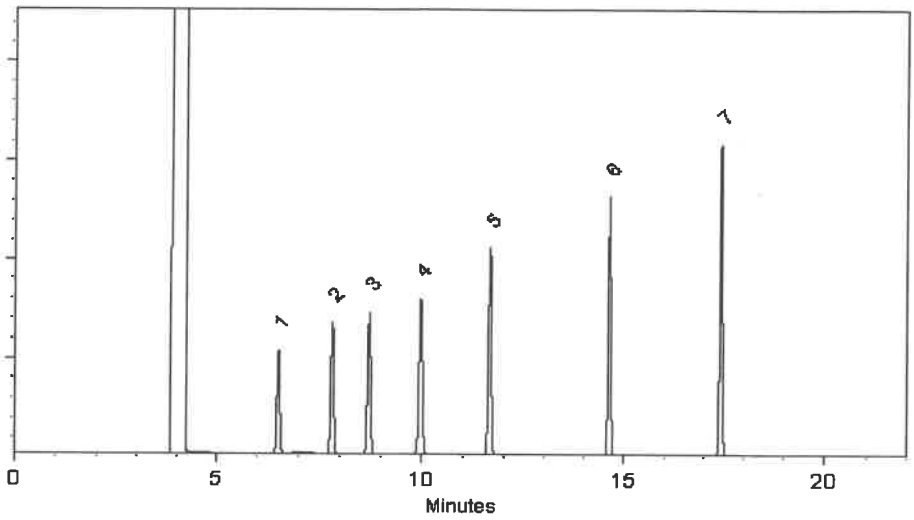
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

Date Mixed: 28-Mar-2024 **Balance Serial #** B707717271

Dillan Murphy - Operations Technician I

Date Passed: 01-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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Handling Notes:

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Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30489 **Lot No.:** A0209618

Description : 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Methyl acetate	79-20-9	SHBP3100	99%	2,019.3 µg/mL	+/- 69.7974
2	Vinyl acetate	108-05-4	RP231030CTH	98%	2,016.8 µg/mL	+/- 69.7112
3	Ethyl acetate	141-78-6	SHBQ9682	99%	2,010.7 µg/mL	+/- 69.4979
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5	Propyl acetate	109-60-4	P8XLN	99%	2,008.0 µg/mL	+/- 69.4057
6	Butyl acetate	123-86-4	SHBP6314	99%	2,007.3 µg/mL	+/- 69.3826
7	Amyl acetate	628-63-7	41325/1	97%	2,004.7 µg/mL	+/- 69.2905

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

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reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

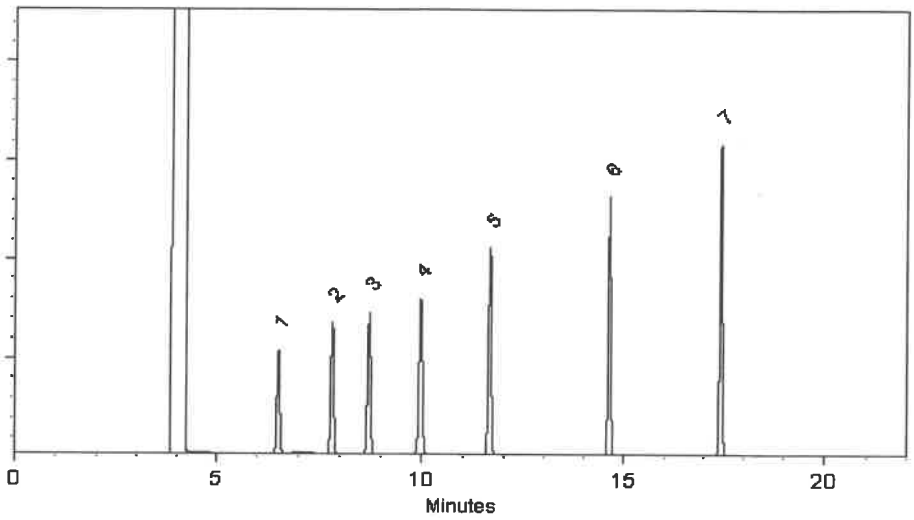
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

Date Mixed: 28-Mar-2024 **Balance Serial #** B707717271

Dillan Murphy - Operations Technician I

Date Passed: 01-Apr-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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Manufacturing Notes:

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Handling Notes:

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ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555581 **Lot No.:** A0210184

Description : Custom 8260 Internal Standard Mix

Custom 8260 Internal Standard Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2027 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	25,212.0 µg/mL	+/- 1,427.8857
2	1,4-Difluorobenzene	540-36-3	MKCS8657	99%	25,220.0 µg/mL	+/- 1,428.3388
3	Chlorobenzene-d5	3114-55-4	PR-31132	99%	25,116.0 µg/mL	+/- 1,422.4487
4	Pentafluorobenzene	363-72-4	MKCR9383	99%	25,180.0 µg/mL	+/- 1,426.0734

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

John Friedline - Operations Technician I

Date Mixed: 11-Apr-2024 **Balance:** 1127510105

REVIEWED

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

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- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

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Manufacturing Notes:

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Handling Notes:

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0210618

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBQ8504	99%	5,014.8 µg/mL	+/- 173.2883
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	5,012.4 µg/mL	+/- 173.2054
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	5,011.6 µg/mL	+/- 173.1777
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,013.0 µg/mL	+/- 173.2261

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

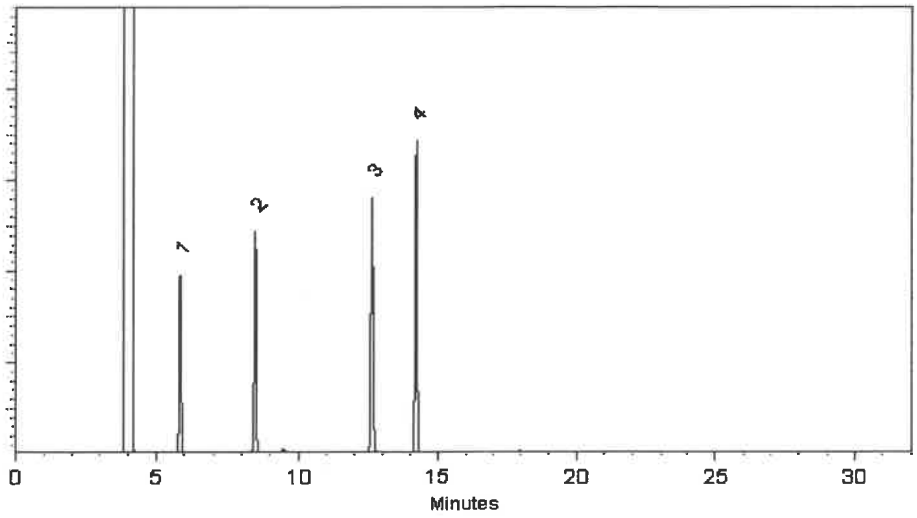
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
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Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0210618

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBQ8504	99%	5,014.8 µg/mL	+/- 173.2883
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	5,012.4 µg/mL	+/- 173.2054
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	5,011.6 µg/mL	+/- 173.1777
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,013.0 µg/mL	+/- 173.2261

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

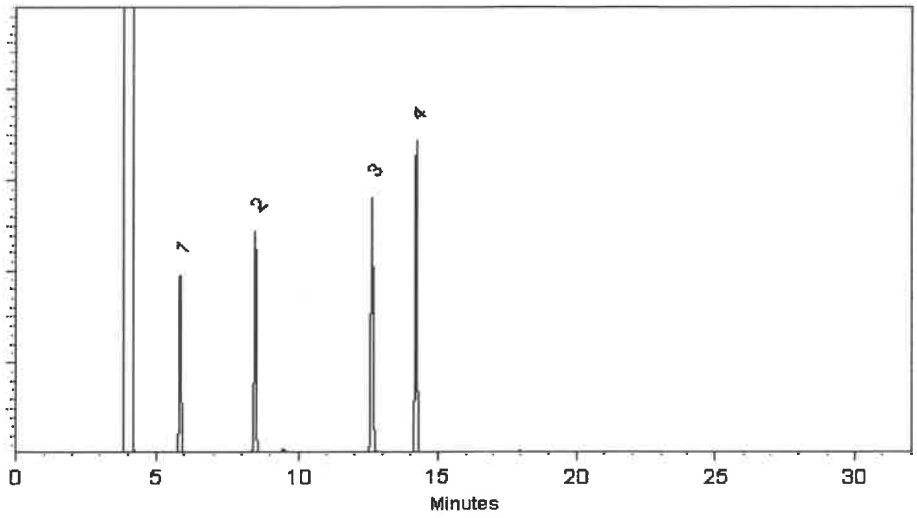
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



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Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

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30 V.4

Certificate of Analysis

chromatographic plus

V14697-to-14726

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Reference Material Producer
Certificate #3222.01

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Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0210618

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBQ8504	99%	5,014.8 µg/mL	+/- 173.2883
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	5,012.4 µg/mL	+/- 173.2054
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	5,011.6 µg/mL	+/- 173.1777
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,013.0 µg/mL	+/- 173.2261

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

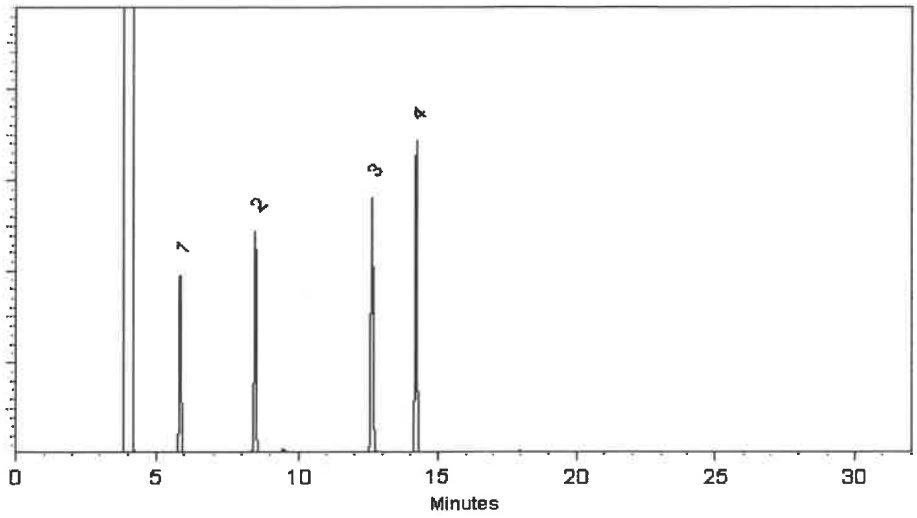
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0210618

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBQ8504	99%	5,014.8 µg/mL	+/- 173.2883
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	5,012.4 µg/mL	+/- 173.2054
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	5,011.6 µg/mL	+/- 173.1777
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,013.0 µg/mL	+/- 173.2261

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

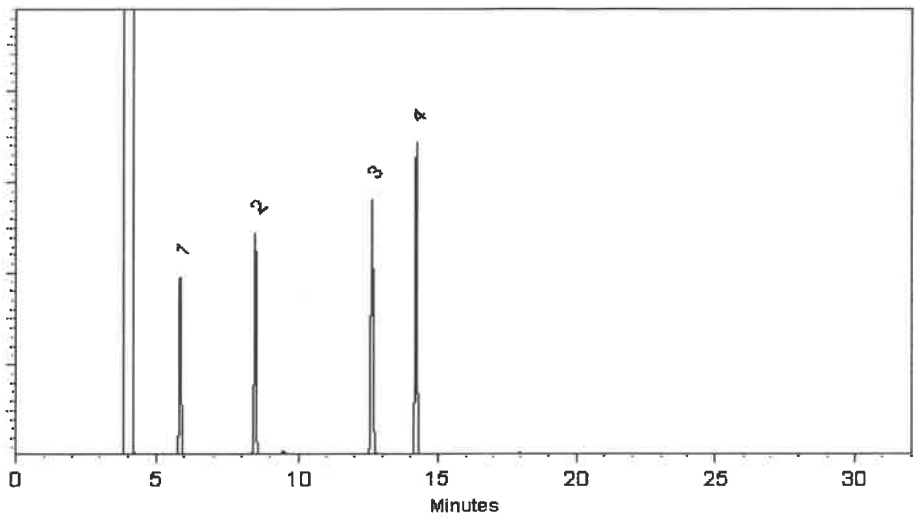
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042 **Lot No.:** A0216826

Description : 502.2 Calibration Mix #1

502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2031 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00022922	99%	2,000.9 µg/mL	+/- 112.4144
2	Chloromethane (methyl chloride)	74-87-3	00022694	99%	2,000.7 µg/mL	+/- 112.3998
3	Vinyl chloride	75-01-4	00015559	99%	2,000.3 µg/mL	+/- 112.3779
4	Bromomethane (methyl bromide)	74-83-9	00017022	99%	2,001.8 µg/mL	+/- 112.4650
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,000.1 µg/mL	+/- 112.3700
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCJ8658	99%	2,000.7 µg/mL	+/- 112.3992

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

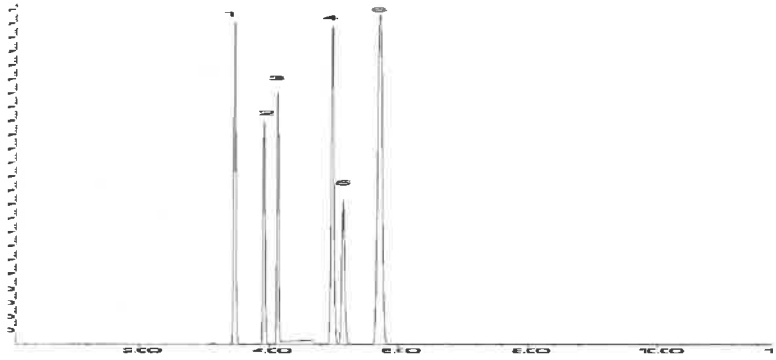
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD

Split Vent:
Split ratio 10:1

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 23-Sep-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 04-Oct-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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Catalog No. : 30042 **Lot No.:** A0216826

Description : 502.2 Calibration Mix #1

502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2031 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00022922	99%	2,000.9 µg/mL	+/- 112.4144
2	Chloromethane (methyl chloride)	74-87-3	00022694	99%	2,000.7 µg/mL	+/- 112.3998
3	Vinyl chloride	75-01-4	00015559	99%	2,000.3 µg/mL	+/- 112.3779
4	Bromomethane (methyl bromide)	74-83-9	00017022	99%	2,001.8 µg/mL	+/- 112.4650
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,000.1 µg/mL	+/- 112.3700
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCJ8658	99%	2,000.7 µg/mL	+/- 112.3992

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

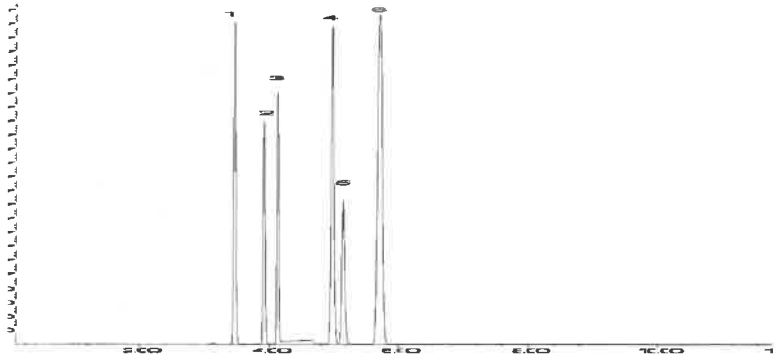
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD

Split Vent:
Split ratio 10:1

Inj. Vol
1µl



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Tom Suckar - Mix Technician

Date Mixed: 23-Sep-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 04-Oct-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

chromatographic plus

J14842 to 14846

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30470 **Lot No.:** A0217535

Description : tert-Butanol Standard

tert-Butanol Std 50,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : October 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	tert-Butanol (TBA)	75-65-0	SHBQ8002-1	99%	50,007.5 µg/mL	+/- 717.6137

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

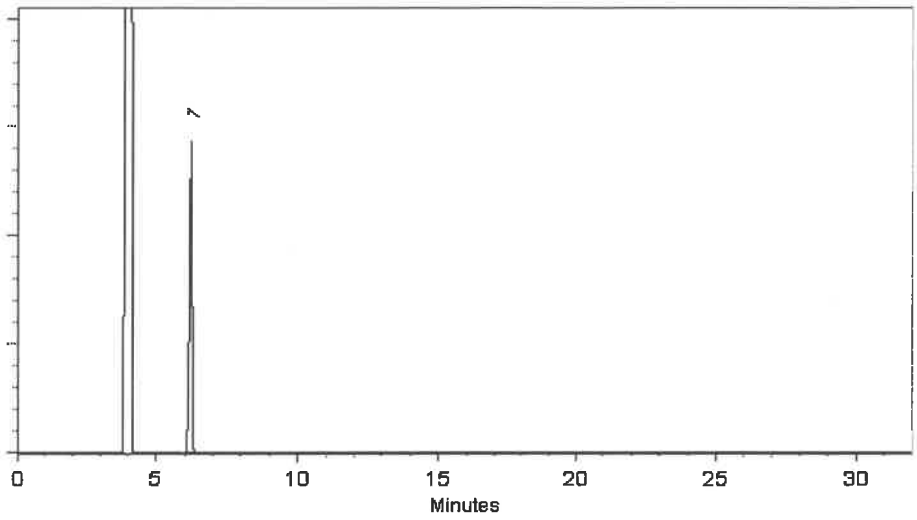
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Aaron Enyart - Operations Tech I

Date Mixed: 07-Oct-2024 **Balance Serial #** B251644995

Brittany Federinko - Operations Tech I

Date Passed: 09-Oct-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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V14803 - V14822

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ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555408-SL **Lot No.:** A0220471

Description : Custom Vinyl Acetate Standard

Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2026 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Vinyl acetate	108-05-4	RD240423RSR	99%	8,066.0 µg/mL	+/- 278.7979

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

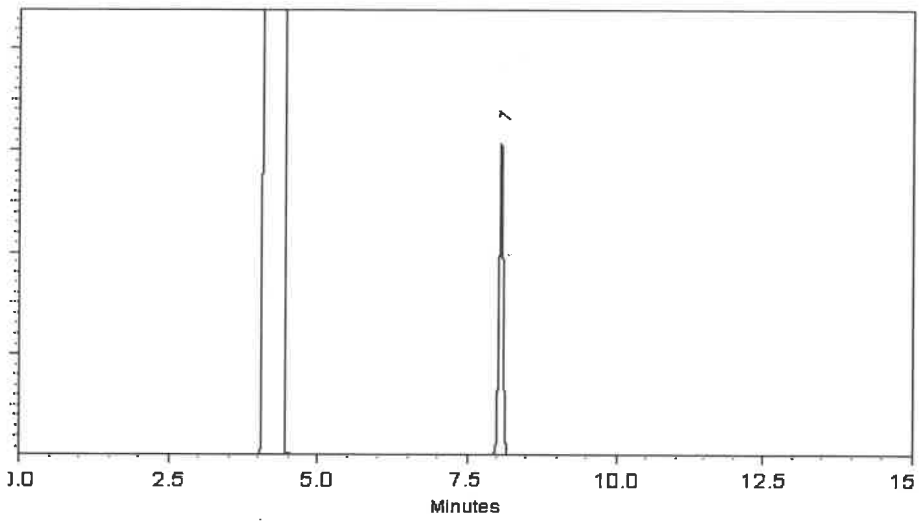
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ethan Winiarski - Operations Tech I

Date Mixed: 24-Dec-2024 **Balance Serial #** 1127510105

Dillan Murphy - Operations Technician I

Date Passed: 02-Jan-2025

REVIEWED

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

Zoviy Rec 01/08/21

CERTIFIED REFERENCE MATERIAL

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

chromatographic

V14803 - V14822

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555408-SL **Lot No.:** A0220471

Description : Custom Vinyl Acetate Standard

Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2026 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Vinyl acetate	108-05-4	RD240423RSR	99%	8,066.0 µg/mL	+/- 278.7979

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

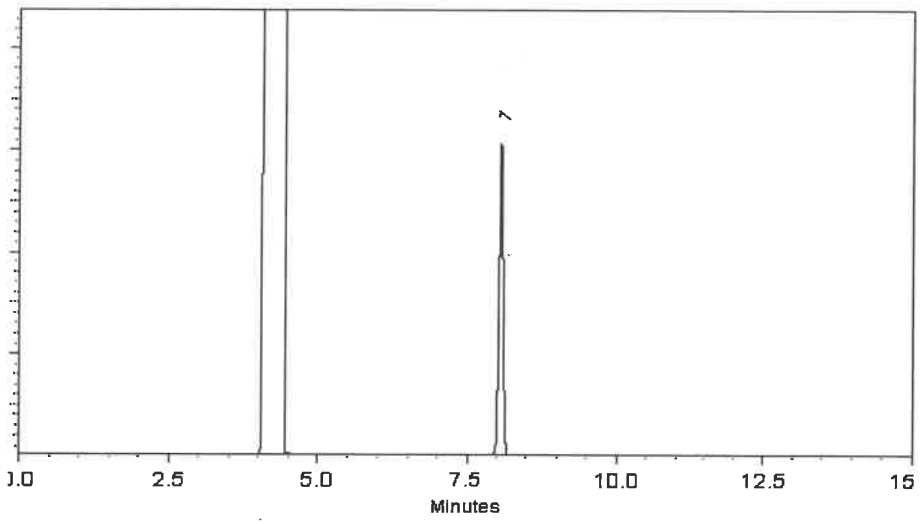
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ethan Winiarski - Operations Tech I

Date Mixed: 24-Dec-2024 **Balance Serial #** 1127510105

Dillan Murphy - Operations Technician I

Date Passed: 02-Jan-2025

REVIEWED

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

10 vial Rec 01/08/25

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CERTIFIED REFERENCE MATERIAL

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

chromatographic

V14793 to 14802

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555408-FL **Lot No.:** A0220563

Description : Custom Vinyl Acetate Standard

Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2026 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Vinyl acetate	108-05-4	RD240423RSR	99%	8,060.0 µg/mL	+/- 278.5905

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

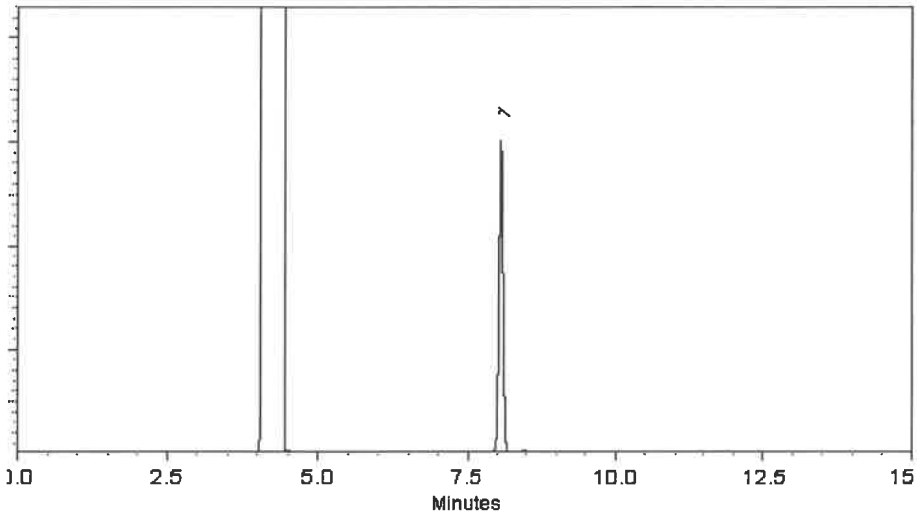
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 30-Dec-2024 **Balance Serial #** B345965662

Dillan Murphy - Operations Technician I

Date Passed: 02-Jan-2025

REVIEWED

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 70046
Lot Number: 070122
Description: Bromochloromethane

Solvent: Methanol **Lot#** EC592-US

Expiration Date: 070127
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 1000
NIST Test ID#: 6UTB

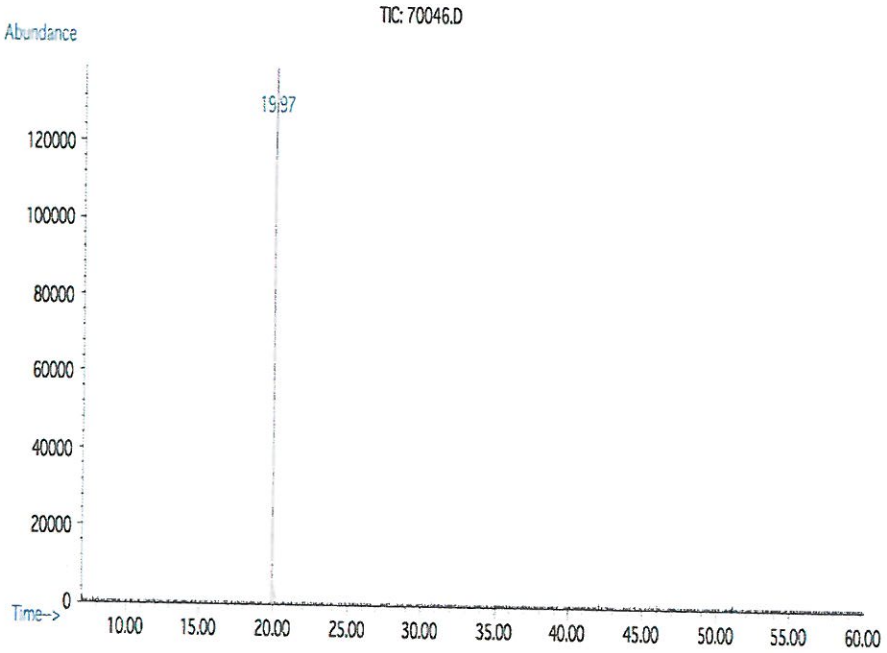
Weight(s) shown below were combined and diluted to (mL): 25.0

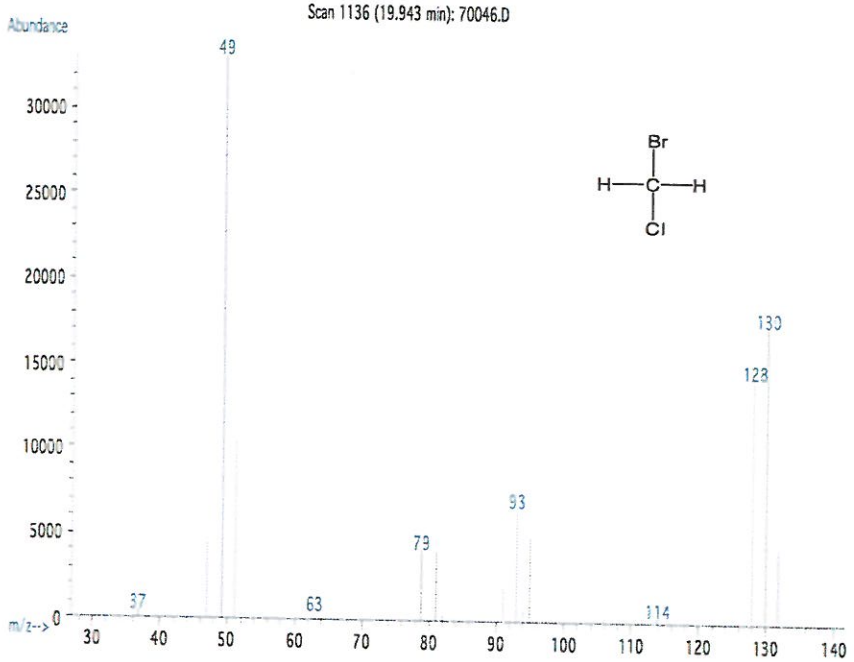
5E-05 Balance Uncertainty
0.0002 Flask Uncertainty

Gabriel Helland		070122
Formulated By:	Gabriel Helland	DATE
Pedro Rentas		070122
Reviewed By:	Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity (%)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Bromochloromethane	46	AY01	1000	99	0.2	0.02530	0.02540	1004.1	5.7	74-97-5	200 ppm (1050mg/m3/8H)	orl-rat 5000mg/kg

Method GC6MSD-1.M: Column : (60m X 0.25mm X 1.5 µm) Temp 1 = 35°C (10min.), Temp 2 = 200°C (8.75 min.), Rate = 4°C/min., Injector B= 200°C, Detector B = 220°C. Analyst: Candice Warren





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Methanol
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Rec 05/09/25

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V14921 to
V14938

Material No.: 9077-02
Batch No.: 24G0262002
Manufactured Date: 2024-05-14
Expiration Date: 2027-05-14
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.3
Titrable Base (µeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis - Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
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600 Series for Wastewater
846 for Solid Waste

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Packaging Site: Phillipsburg Mfg Ctr & DC

JCroak

Jamie Croak
Director Quality Operations, Bioscience Production

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Certified Reference Material CRM

Rec 05/21/25

ANAB ISO 17034 Accredite
AR-1539 Certificate Number
https://Absolutestandards.co

CERTIFIED WEIGHT REPORT

5.0149

Part Number:	91980
Lot Number:	051925
Description:	Acrolein
Expiration Date:	061925
Recommended Storage:	Refrigerate (4 °C)
Nominal Concentration (µg/mL):	5000
NIST Test ID#:	6UTB

Solvent(s): Water **Lot#** 041725Q

J14944-V14948

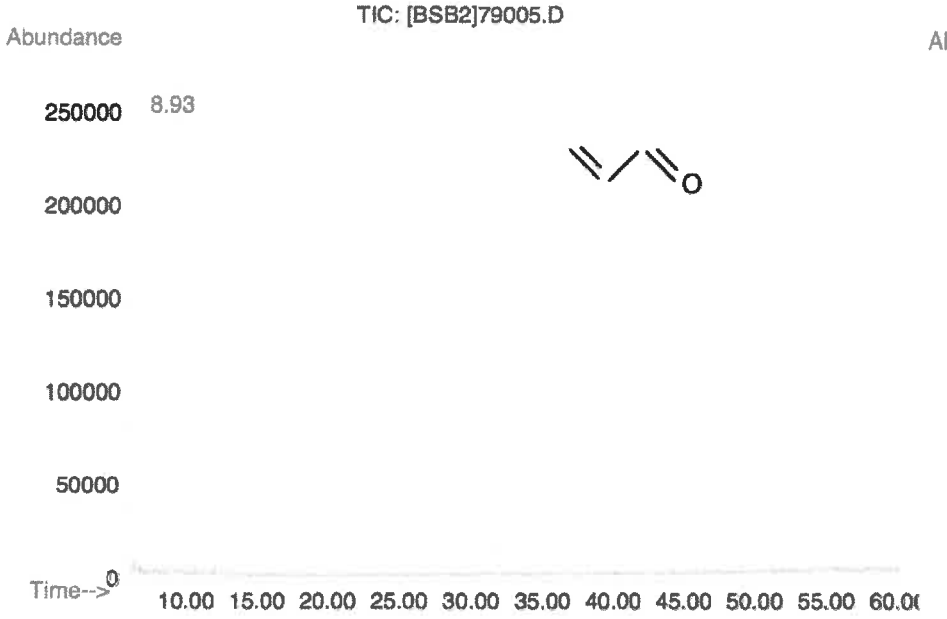
5E-05 Balance Uncertainty

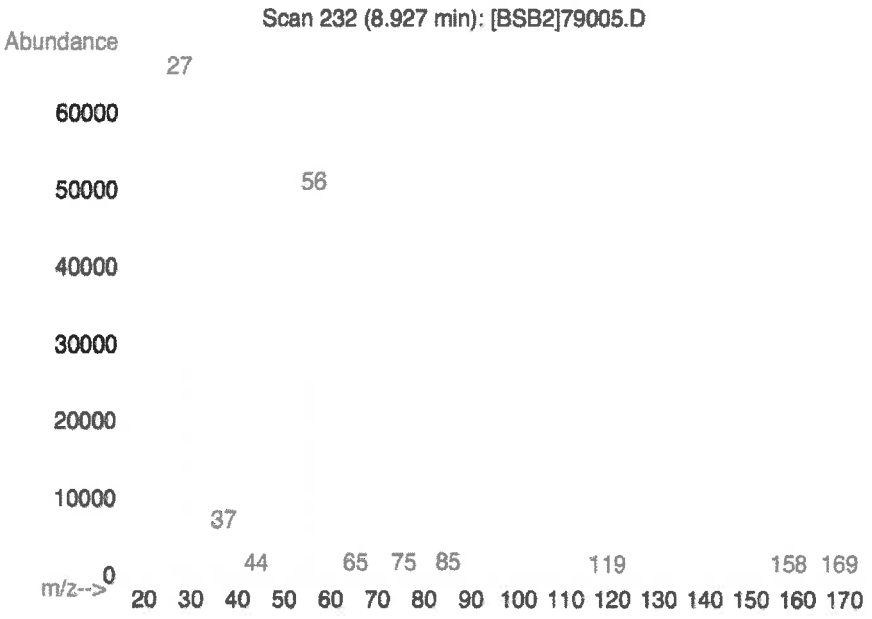
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

Formulated By:	Lawrence Barry	051925 DATE
Reviewed By:	Pedro L. Rentas	051925 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05170	5004.1	52.5	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





- **The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.**
- **Standards are prepared gravimetrically using balances that are calibrated by an ISO 17025 certified organization with weights traceable through NIST to the SI kilogram (see above).**
- **Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.**
- **All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.**
- **Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).**
  Rev 1.0, 2/25/2025

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Certified Reference Material CRM

Rec 05/21/25

ANAB ISO 17034 Accredite
AR-1539 Certificate Number
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CERTIFIED WEIGHT REPORT

5.0149

Part Number:	91980
Lot Number:	051925
Description:	Acrolein
Expiration Date:	061925
Recommended Storage:	Refrigerate (4 °C)
Nominal Concentration (µg/mL):	5000
NIST Test ID#:	6UTB

Solvent(s): Water **Lot#** 041725Q

J14944-V14948

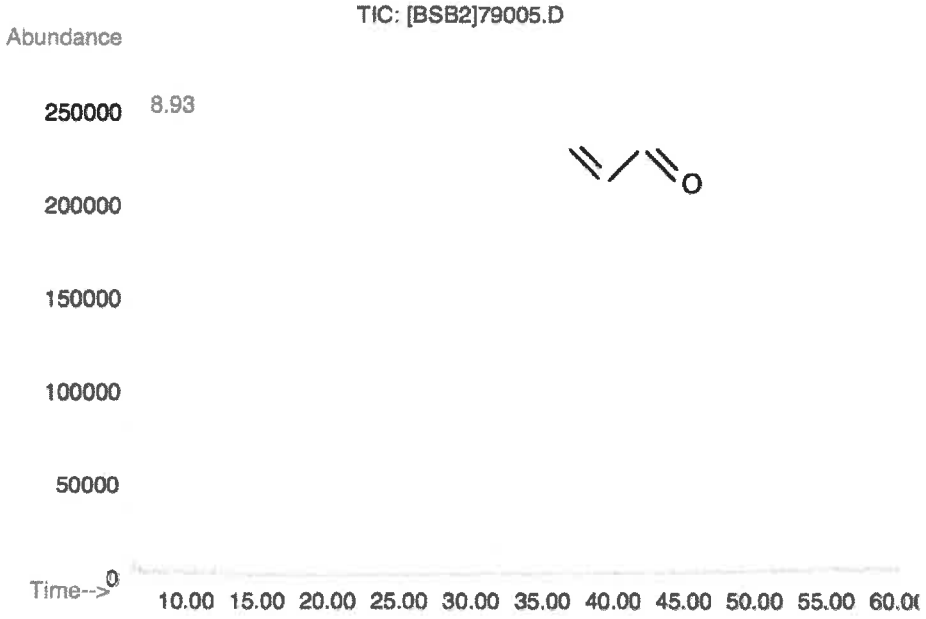
5E-05 Balance Uncertainty

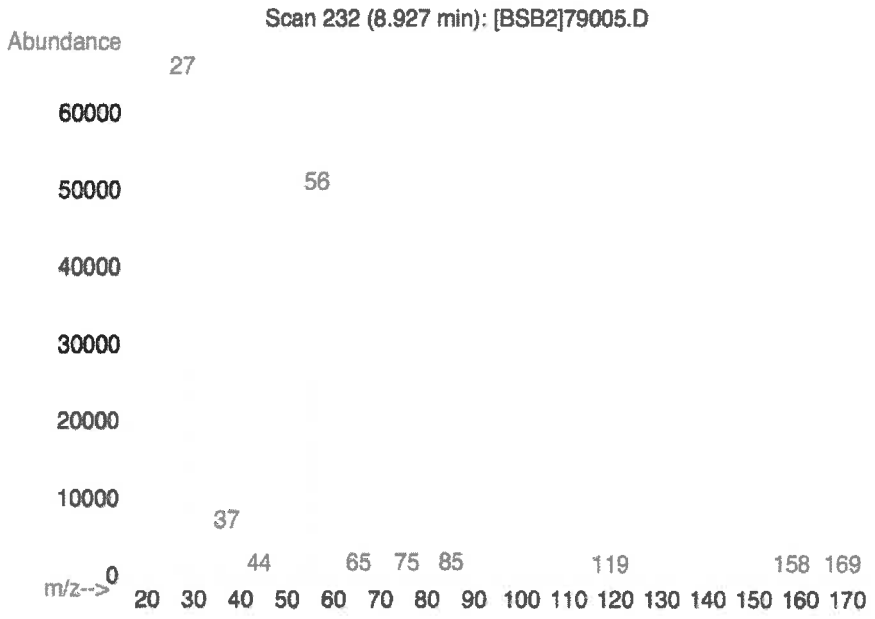
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

Formulated By:	Lawrence Barry	051925 DATE
Reviewed By:	Pedro L. Rentas	051925 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05170	5004.1	52.5	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





- **The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.**
- **Standards are prepared gravimetrically using balances that are calibrated by an ISO 17025 certified organization with weights traceable through NIST to the SI kilogram (see above).**
- **Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.**
- **All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.**
- **Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).**
  Rev 1.0, 2/25/2025

Absolute Standards, Inc.
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www.absolutestandards.com

Certified Reference Material CRM

Rec 05/21/25

ANAB ISO 17034 Accredite
AR-1539 Certificate Number
https://Absolutestandards.co

CERTIFIED WEIGHT REPORT

5.v19

Part Number:	91980
Lot Number:	051925
Description:	Acrolein
Expiration Date:	061925
Recommended Storage:	Refrigerate (4 °C)
Nominal Concentration (µg/mL):	5000
NIST Test ID#:	6UTB

Solvent(s): Water **Lot#** 041725Q

J14944-V14948

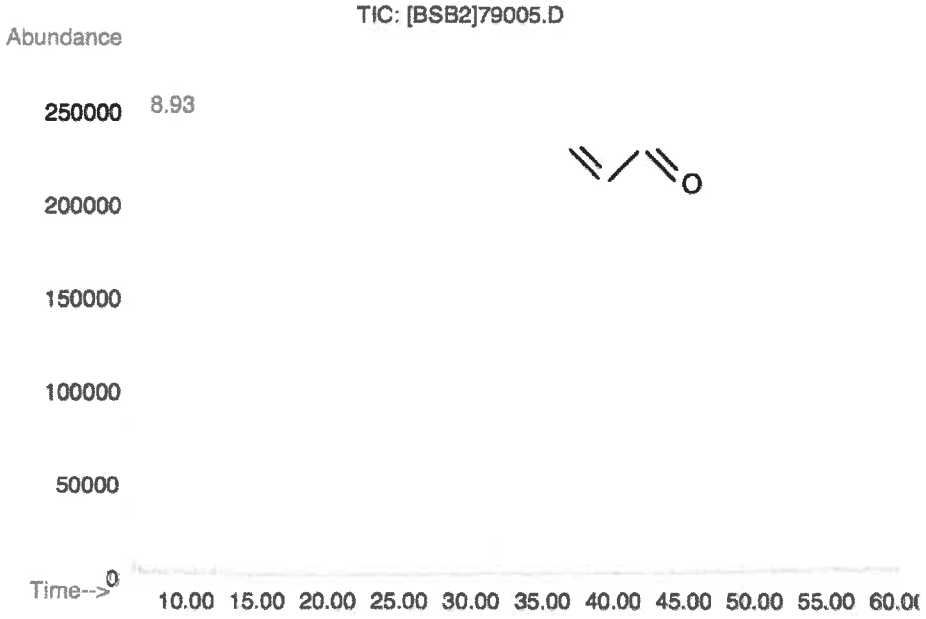
5E-05 Balance Uncertainty

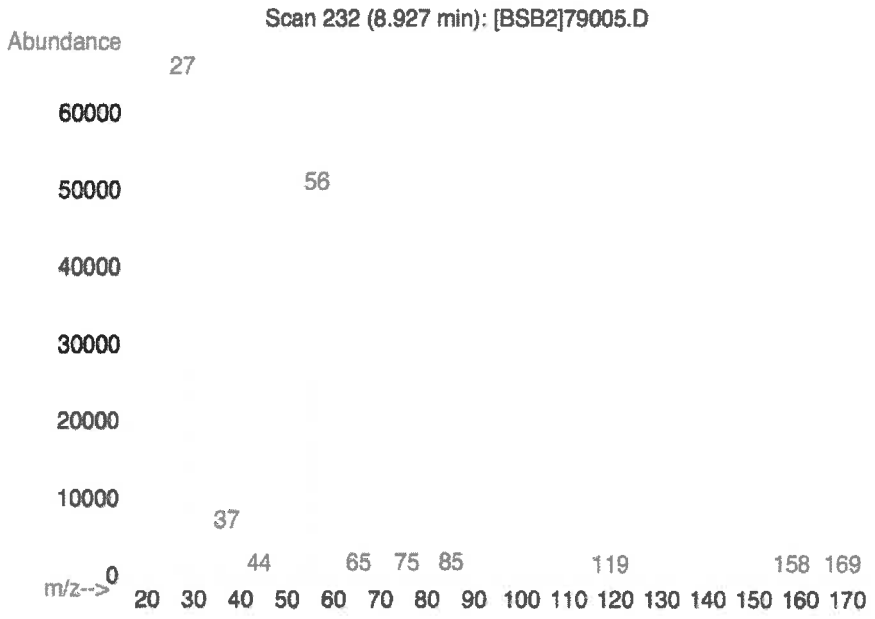
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

Formulated By:	Lawrence Barry	051925 DATE
Reviewed By:	Pedro L. Rentas	051925 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05170	5004.1	52.5	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





- **The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.**
- **Standards are prepared gravimetrically using balances that are calibrated by an ISO 17025 certified organization with weights traceable through NIST to the SI kilogram (see above).**
- **Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.**
- **All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.**
- **Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994). Rev 1.0, 2/25/2025**

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 05/21/25

ANAB ISO 17034 Accredite
AR-1539 Certificate Number
https://Absolutestandards.co

CERTIFIED WEIGHT REPORT

5.0 mg/mL

Part Number:	91980
Lot Number:	051925
Description:	Acrolein
Expiration Date:	061925
Recommended Storage:	Refrigerate (4 °C)
Nominal Concentration (µg/mL):	5000
NIST Test ID#:	6UTB

Solvent(s): Water **Lot#** 041725Q

J14944-V14948

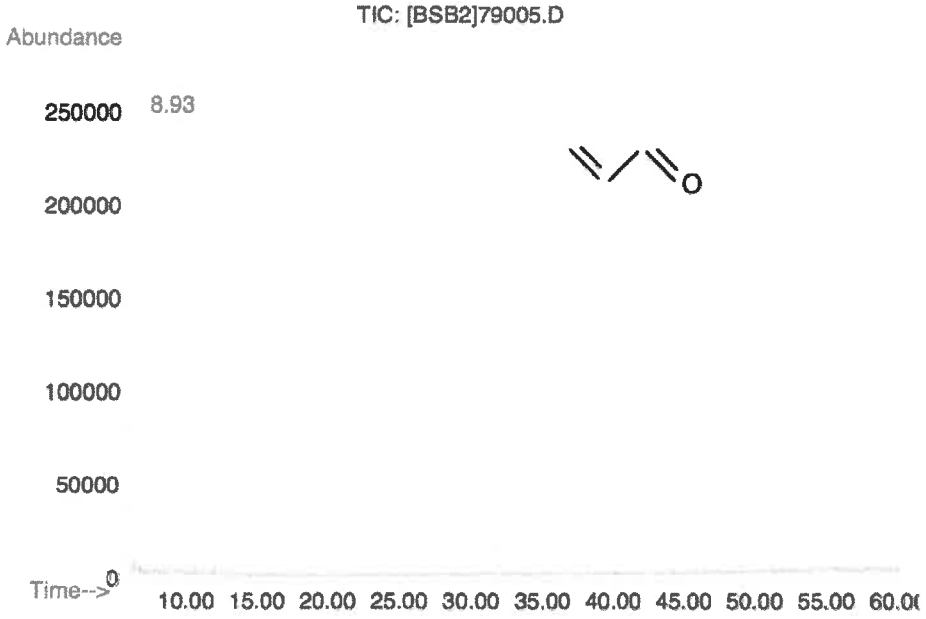
5E-05 Balance Uncertainty

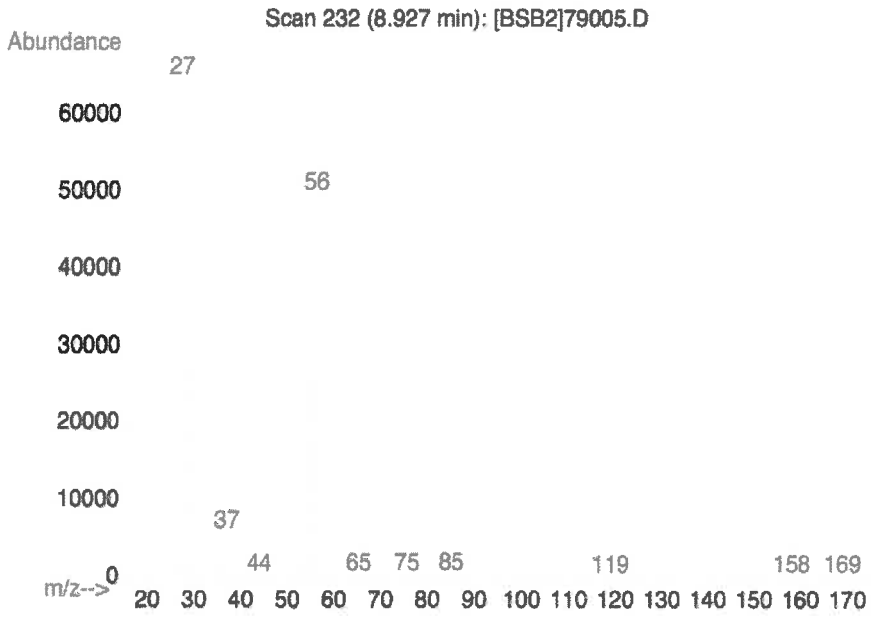
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

Formulated By:	Lawrence Barry	051925 DATE
Reviewed By:	Pedro L. Rentas	051925 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05170	5004.1	52.5	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





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  Rev 1.0, 2/25/2025

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Certified Reference Material CRM
Rec 05/21/25

ANAB ISO 17034 Accredite
AR-1539 Certificate Number
https://Absolutestandards.co

2 vial

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 051725
Description: Acrolein

V 14949-95U

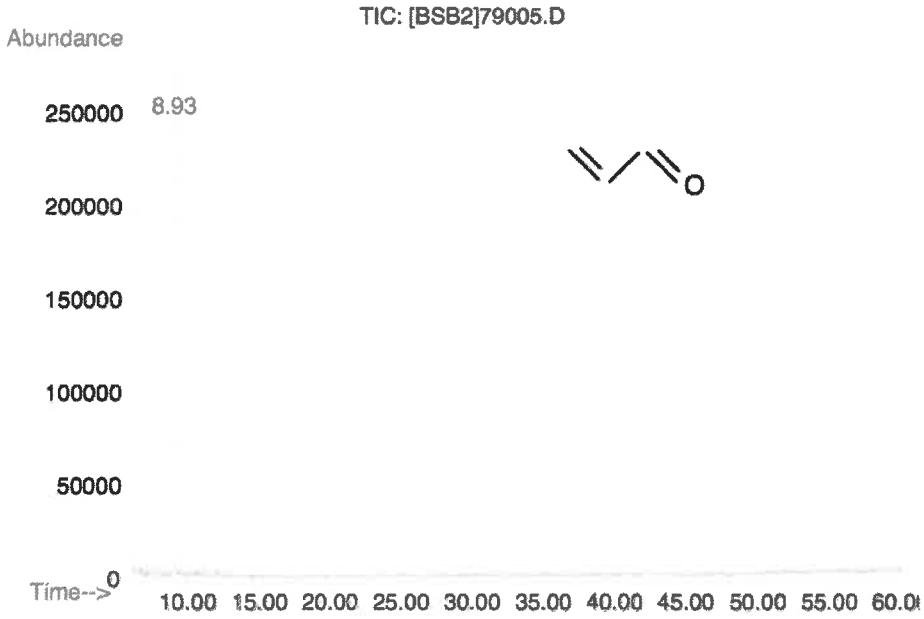
Solvent(s): **Lot#**
Water 041725Q

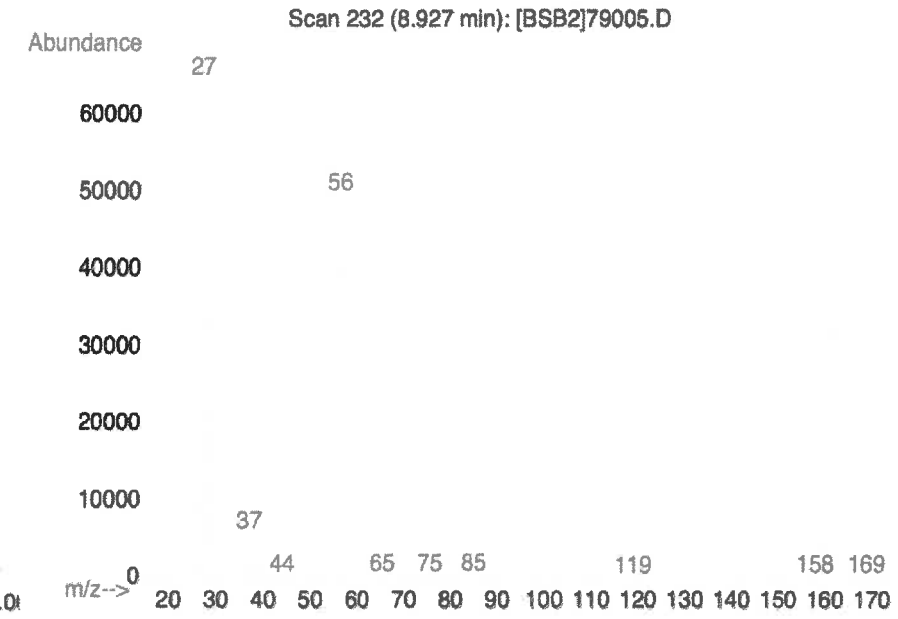
Expiration Date: 061725
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB 5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

Justin Dippold	051725
Formulated By: Justin Dippold	DATE
Pedro Rentas	051725
Reviewed By: Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755R02H	5000	97	0.5	0.05166	0.05175	5008.9	52.5	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





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Certified Reference Material CRM
Rec 05/21/25

ANAB ISO 17034 Accredite
AR-1539 Certificate Number
https://Absolutestandards.co

2 vial

V 14949-95V

CERTIFIED WEIGHT REPORT

Part Number:	91980
Lot Number:	051725
Description:	Acrolein
Expiration Date:	061725
Recommended Storage:	Refrigerate (4 °C)
Nominal Concentration (µg/mL):	5000
NIST Test ID#:	6UTB

Solvent(s):	Lot#
Water	041725Q

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

Justin Dippold 051725
Formulated By: Justin Dippold DATE

Pedro Rentas 051725
Reviewed By: Pedro L. Rentas DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
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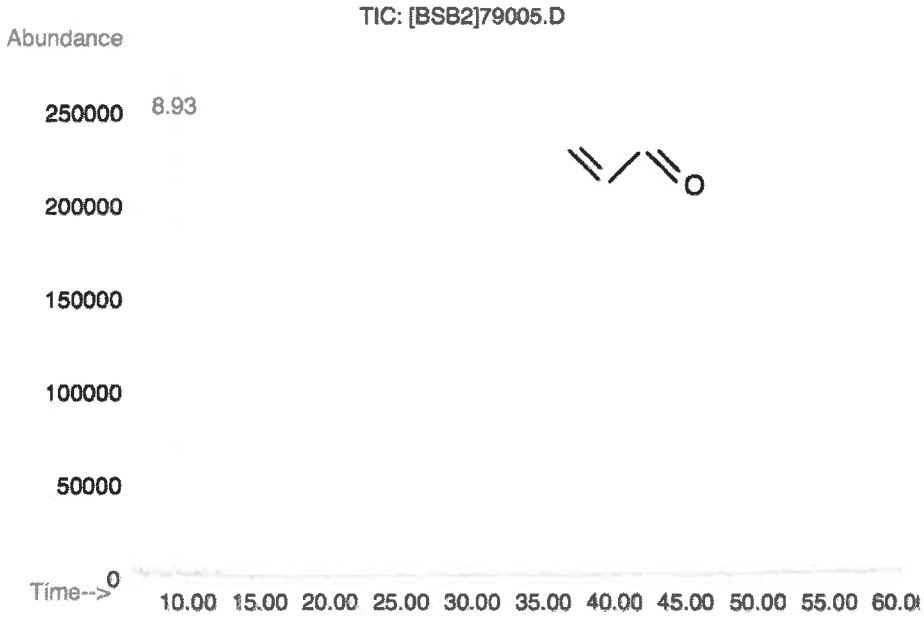

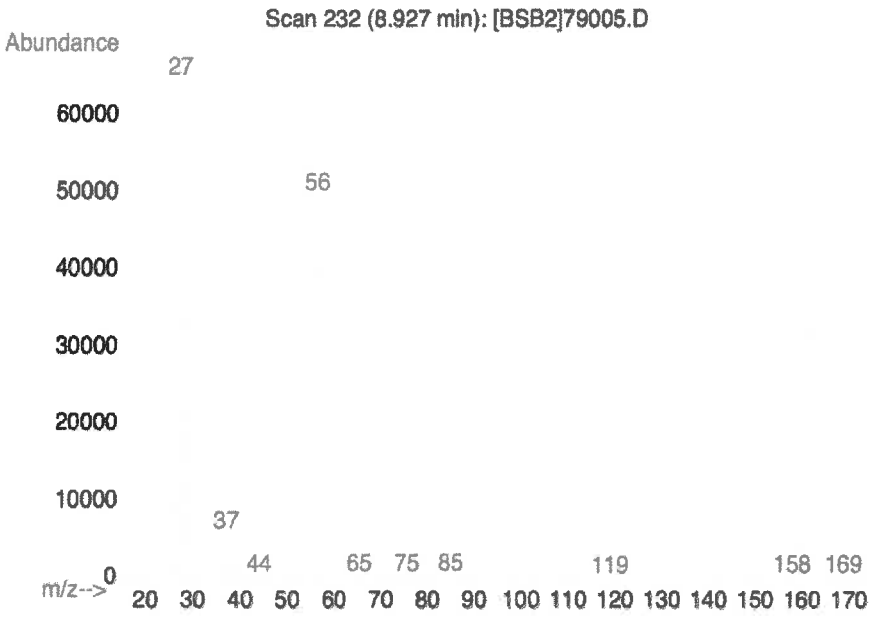

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Rev 1.0, 2/25/2025

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

Preservation Log

BalanceID: VOA-SC-2

Review By: JOHN

Supervise By: MMDadoda

Seq	LabID	Vial A Weight(g)	Vial A Time	Vial B Weight(g)	Vial B Time	Vial C Weight(g) with MeOH	Vial C Time	Methanol ID	Preservation Date	Comments
1	Q2118-11	5.11	12:50	5.54	13:02	5.38	13:03	V14143	05/23/2025	100% percent solids

Instructions : For medium Level analysis, 5ml MeOH added for CLP(SOM/SFAM) method and 10ml for regular 8260.

If the samples are not to be analyzed within 48hrs of sampling, preserve samples immediately, Vials A and B are stored in the VOA-FRZ-2.

Vial C - MeOH preserved vials are kept in VOA-REF #6.

QA Contorl # A3041177

SHIPPING DOCUMENTS

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax: (908) 78-8922
www.chemtech.net

Chemtech Project Number: Q2118

COC Number:

CLIENT INFORMATION			PROJECT INFORMATION		BILLING INFORMATION	
COMPANY: Tetra Tech			PROJECT NAME: NWIRP Bethpage		BILL TO: SEE CONTRACT	PO#
ADDRESS: 4433 Corporation Lane Suite 300			PROJECT #: 112G08005-WE13	LOCATION: VPB-182	ADDRESS:	
CITY: Virginia Beach	STATE: VA	ZIP: 23462	PROJECT MANAGER: Ernie Wu		CITY:	STATE: ZIP:
ATTENTION: Ernie Wu			E-MAIL: ernie.wu@tetratech.com		ATTENTION:	PHONE:
PHONE: 757-466-4901	FAX:757-461-4148		PHONE: 757-466-4901	FAX: 757-461-4148		

DATA TURNAROUND INFORMATION

FAX: 2 & 10 DAYS*
HARD COPY: 2 & 10 DAYS*
EDD 2 & 10 DAYS*
* TO BE APPROVED BY CHEMTECH
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ RESEULTS ONLY
- ☐ RESULTS + QC
- ☐ New Jersey REDUCED
- ☐ New Jersey CLP
- ☐ USEPA CLP
- ☐ New York State ASP "B"
- ☐ New York State ASP "A"
- ☐ Other
- ☐ EDD Format

ANALYSIS

	1	2	3	4	5	6	7	8	9
	VOC(SW846-8260B)	1,4 Dioxane (8270 SIM)							

PRESERVATIVES

	A		F						
	1	2	3	4	5	6	7	8	9

COMMENTS

<-- Specify Preservatives
A-HCl B-HNO3
C-H2SO4 D-NaOH
E-ICE F-Other

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# of Bottles	COMMENTS
1.	BP-VPB-182-TB-20250520	QA		X	5/20/25	8:00	2	Trip Blank
2.	BP-VPB-182-GW-420-422	AQ		X	5/20/25	10:15	3	
3.	BP-VPB-182-GW-450-452	AQ		X	5/20/25	14:15	2	
4.	BP-VPB-182-DUP-20250520	AQ		X	5/20/25	12:00	2	8260B Duplicate
5.	BP-VPB-182-GW-460-462	AQ		X	5/21/25	10:10	3	
6.	BP-VPB-182-GW-480-482	AQ		X	5/21/25	12:30	2	
7.	BP-VPB-182-GW-500-502	AQ		X	5/21/25	14:30	5	Extra VOA due to sediment
8.	BP-VPB-182-GW-520-522	AQ		X	5/22/25	10:05	4	
9.	BP-VPB-182-GW-540-542	QA		X	5/22/25	12:03	3	
10.	BP-VPB-182-GW-560-562	QA		X	5/22/25	13:53	3	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE PROSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER	DATE/TIME	RECEIVED BY
1.	5/22/25 1534	1. 1550 5-22-25
RELINQUISHED BY	DATE/TIME	RECEIVED BY
2.		2.
RELINQUISHED BY	DATE/TIME	RECEIVED FOR LAB BY
3.	5-22-25 1545	3.

Conditions of bottles or coolers at receipt: q Compliant q Non Compliant q Cooler Temp 3.4 C
MeOH extraction requires an additional 4oz. Jar for percent solid q Ice in
Cooler?:
Comments: 5-DAY TAT - For VOC's see worksheet #15 of SAP 2018 for VPB program VOC list
10-DAY TAT - For 1,4 Dioxane (8270 SIM)

Page 1 of 1

SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ Overnight
CHEMTECH: ☐ Picked Up ☐ Overnight

Shipment Complete ☐ YES ☐ NO

WHITE - CHEMTECH COPYFOR RETURN TO CLIENT **YELLOW** - CHEMTECH COPY **PINK** - SAMPLER COPY

284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2118 TETR06
Client Name : Tetra Tech NUS, Inc.
Client Contact : Ernie Wu
Invoice Name : Tetra Tech NUS, Inc.
Invoice Contact : Ernie Wu

Order Date : 5/22/2025 3:57:00 PM
Project Name : NWIRP Bethpage 112G080
Receive DateTime : 5/22/2025 7:45:00 PM
Purchase Order :

Project Mgr : Yazmeen
Report Type : Level 4
EDD Type : ADAPT
Hard Copy Date :
Date Signoff : 5/23/2025 11:36:06 AM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD		FAX DATE	DUE DATES
Q2118-01	BP-VPB-182-TB-20250520	Water	05/20/2025	08:00						
					VOCMS Group1		8260-Low	2 Bus. Days	05/27/2025	
Q2118-02	BP-VPB-182-GW-420-422	Water	05/20/2025	10:15						
					VOCMS Group1		8260-Low	2 Bus. Days	05/27/2025	
Q2118-03	BP-VPB-182-GW-450-452	Water	05/20/2025	14:15						
					VOCMS Group1		8260-Low	2 Bus. Days	05/27/2025	
Q2118-04	BP-VPB-182-DUP-20250520	Water	05/20/2025	12:00						
					VOCMS Group1		8260-Low	2 Bus. Days	05/27/2025	
Q2118-05	BP-VPB-182-GW-460-462	Water	05/21/2025	10:10						
					VOCMS Group1		8260-Low	2 Bus. Days	05/27/2025	
Q2118-06	BP-VPB-182-GW-480-482	Water	05/21/2025	12:30						
					VOCMS Group1		8260-Low	2 Bus. Days	05/27/2025	
Q2118-08	BP-VPB-182-GW-520-522	Water	05/22/2025	10:05						
					VOCMS Group1		8260-Low	2 Bus. Days	05/27/2025	
Q2118-09	BP-VPB-182-GW-540-542	Water	05/22/2025	12:03						

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2118 TETR06
Client Name : Tetra Tech NUS, Inc.
Client Contact : Ernie Wu
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Order Date : 5/22/2025 3:57:00 PM
Project Name : NWIRP Bethpage 112G080
Receive DateTime : 5/22/2025 7:45:00 PM
Purchase Order :

Project Mgr : Yazmeen
Report Type : Level 4
EDD Type : ADAPT
Hard Copy Date :
Date Signoff : 5/23/2025 11:36:06 AM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD		FAX DATE	DUE DATES
					VOCMS Group1		8260-Low	2 Bus. Days	05/27/2025	
Q2118-10	BP-VPB-182-GW-560-562	Water	05/22/2025	13:53						
					VOCMS Group1		8260-Low	2 Bus. Days	05/27/2025	
Q2118-11	BP-VPB-182-GW-500-502	Solid	05/21/2025	14:30						
					VOCMS Group1		8260D	2 Bus. Days	05/27/2025	

Relinguished By :
Date / Time : 5/22/25

Received By :
Date / Time : 5/22/25

Storage Area : VOA Refridgerator Room

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046041.D
Acq On : 05 May 2025 11:35
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Quant Time: May 06 06:08:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.543	168	83671	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	147096	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	127829	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	60503	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	31909	12.820	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	25.640%#		
35) Dibromofluoromethane	5.385	113	21112	12.804	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	25.600%#		
50) Toluene-d8	8.646	98	73333	13.200	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	26.400%#		
62) 4-Bromofluorobenzene	11.079	95	26760	13.236	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	26.480%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	23341	12.638	ug/l	96
3) Chloromethane	1.306	50	24316	13.371	ug/l	98
4) Vinyl Chloride	1.373	62	22096	13.868	ug/l	94
5) Bromomethane	1.593	94	9920	12.279	ug/l	93
6) Chloroethane	1.666	64	11832	14.414	ug/l	95
7) Trichlorofluoromethane	1.873	101	34636	14.271	ug/l	100
8) Diethyl Ether	2.129	74	11392	14.278	ug/l	94
9) 1,1,2-Trichlorotrifluo...	2.324	101	21027	14.499	ug/l	98
10) Methyl Iodide	2.446	142	25661	15.070	ug/l	99
11) Tert butyl alcohol	2.971	59	20370	68.662	ug/l	97
12) 1,1-Dichloroethene	2.312	96	18899	13.385	ug/l	98
13) Acrolein	2.233	56	26427	76.689	ug/l	95
14) Allyl chloride	2.660	41	37708	14.133	ug/l	99
15) Acrylonitrile	3.062	53	63290	71.312	ug/l	98
16) Acetone	2.379	43	60363	70.884	ug/l	99
17) Carbon Disulfide	2.501	76	43348	13.251	ug/l	100
18) Methyl Acetate	2.702	43	27234	13.397	ug/l	99
19) Methyl tert-butyl Ether	3.111	73	68402	13.890	ug/l	100
20) Methylene Chloride	2.782	84	23050	13.362	ug/l	96
21) trans-1,2-Dichloroethene	3.086	96	19161	13.294	ug/l	96
22) Diisopropyl ether	3.763	45	74257	14.896	ug/l	95
23) Vinyl Acetate	3.720	43	322598	73.230	ug/l	100
24) 1,1-Dichloroethane	3.605	63	41257	14.082	ug/l	98
25) 2-Butanone	4.556	43	90331	73.489	ug/l	98
26) 2,2-Dichloropropane	4.470	77	30472	13.729	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	23970	13.791	ug/l	98
28) Bromochloromethane	4.897	49	21028	13.497	ug/l	99
29) Tetrahydrofuran	5.007	42	56819	71.175	ug/l	100
30) Chloroform	5.086	83	43065	14.144	ug/l	95
31) Cyclohexane	5.458	56	36470	14.769	ug/l	95
32) 1,1,1-Trichloroethane	5.379	97	37003	14.092	ug/l	98
36) 1,1-Dichloropropene	5.684	75	27242	14.231	ug/l	98
37) Ethyl Acetate	4.720	43	33458	13.931	ug/l	98
38) Carbon Tetrachloride	5.671	117	31091	14.137	ug/l	98
39) Methylcyclohexane	7.372	83	35077	14.623	ug/l	99
40) Benzene	6.031	78	83898	14.140	ug/l	97

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046041.D
Acq On : 05 May 2025 11:35
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Quant Time: May 06 06:08:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.915	41	18732	14.038	ug/l		95
42) 1,2-Dichloroethane	6.080	62	37203	15.165	ug/l		100
43) Isopropyl Acetate	6.342	43	53275	14.512	ug/l		99
44) Trichloroethene	7.116	130	20239	14.429	ug/l		99
45) 1,2-Dichloropropane	7.427	63	20940	14.204	ug/l		98
46) Dibromomethane	7.580	93	16781	14.439	ug/l		99
47) Bromodichloromethane	7.817	83	32762	14.545	ug/l		94
48) Methyl methacrylate	7.689	41	27374	14.521	ug/l		100
49) 1,4-Dioxane	7.659	88	10585	282.442	ug/l		98
51) 4-Methyl-2-Pentanone	8.573	43	182455	75.775	ug/l		98
52) Toluene	8.713	92	52030	14.788	ug/l		99
53) t-1,3-Dichloropropene	8.976	75	27549	14.566	ug/l		100
54) cis-1,3-Dichloropropene	8.366	75	31226	14.154	ug/l		98
55) 1,1,2-Trichloroethane	9.152	97	20536	14.442	ug/l		96
56) Ethyl methacrylate	9.116	69	31787	14.425	ug/l		98
57) 1,3-Dichloropropane	9.305	76	36341	14.417	ug/l		98
58) 2-Chloroethyl Vinyl ether	8.238	63	79531	80.312	ug/l		100
59) 2-Hexanone	9.427	43	137054	74.997	ug/l		99
60) Dibromochloromethane	9.518	129	22267	14.387	ug/l		99
61) 1,2-Dibromoethane	9.610	107	21113	14.458	ug/l		96
64) Tetrachloroethene	9.268	164	19924	15.263	ug/l		97
65) Chlorobenzene	10.079	112	55863	14.202	ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.158	131	18671	14.231	ug/l		98
67) Ethyl Benzene	10.189	91	98113	14.631	ug/l		100
68) m/p-Xylenes	10.299	106	72202	29.806	ug/l		99
69) o-Xylene	10.640	106	35178	14.408	ug/l		96
70) Styrene	10.652	104	58034	14.853	ug/l		98
71) Bromoform	10.799	173	13825	14.030	ug/l	#	100
73) Isopropylbenzene	10.957	105	93013	14.096	ug/l		99
74) N-amyl acetate	10.841	43	44684	13.581	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.207	83	31830	13.560	ug/l		99
76) 1,2,3-Trichloropropane	11.237	75	34837	13.811	ug/l		89
77) Bromobenzene	11.195	156	21695	14.212	ug/l		96
78) n-propylbenzene	11.298	91	106337	14.376	ug/l		99
79) 2-Chlorotoluene	11.359	91	68534	13.748	ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	79261	14.468	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	8104	13.371	ug/l		91
82) 4-Chlorotoluene	11.451	91	77338	14.116	ug/l		100
83) tert-Butylbenzene	11.713	119	75382	14.011	ug/l		99
84) 1,2,4-Trimethylbenzene	11.750	105	79232	14.480	ug/l		99
85) sec-Butylbenzene	11.890	105	95271	14.263	ug/l		100
86) p-Isopropyltoluene	12.006	119	77599	14.387	ug/l		98
87) 1,3-Dichlorobenzene	11.969	146	39520	13.898	ug/l		98
88) 1,4-Dichlorobenzene	12.036	146	39419	14.146	ug/l		99
89) n-Butylbenzene	12.329	91	66506	14.184	ug/l		99
90) Hexachloroethane	12.536	117	13332	13.287	ug/l		100
91) 1,2-Dichlorobenzene	12.335	146	39031	14.092	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	12.938	75	7232	13.535	ug/l		99
93) 1,2,4-Trichlorobenzene	13.585	180	20846	13.745	ug/l		99
94) Hexachlorobutadiene	13.725	225	9524	13.426	ug/l		97
95) Naphthalene	13.774	128	77542	14.040	ug/l		99
96) 1,2,3-Trichlorobenzene	13.956	180	22301	14.023	ug/l		97

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046041.D
Acq On : 05 May 2025 11:35
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Quant Time: May 06 06:08:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

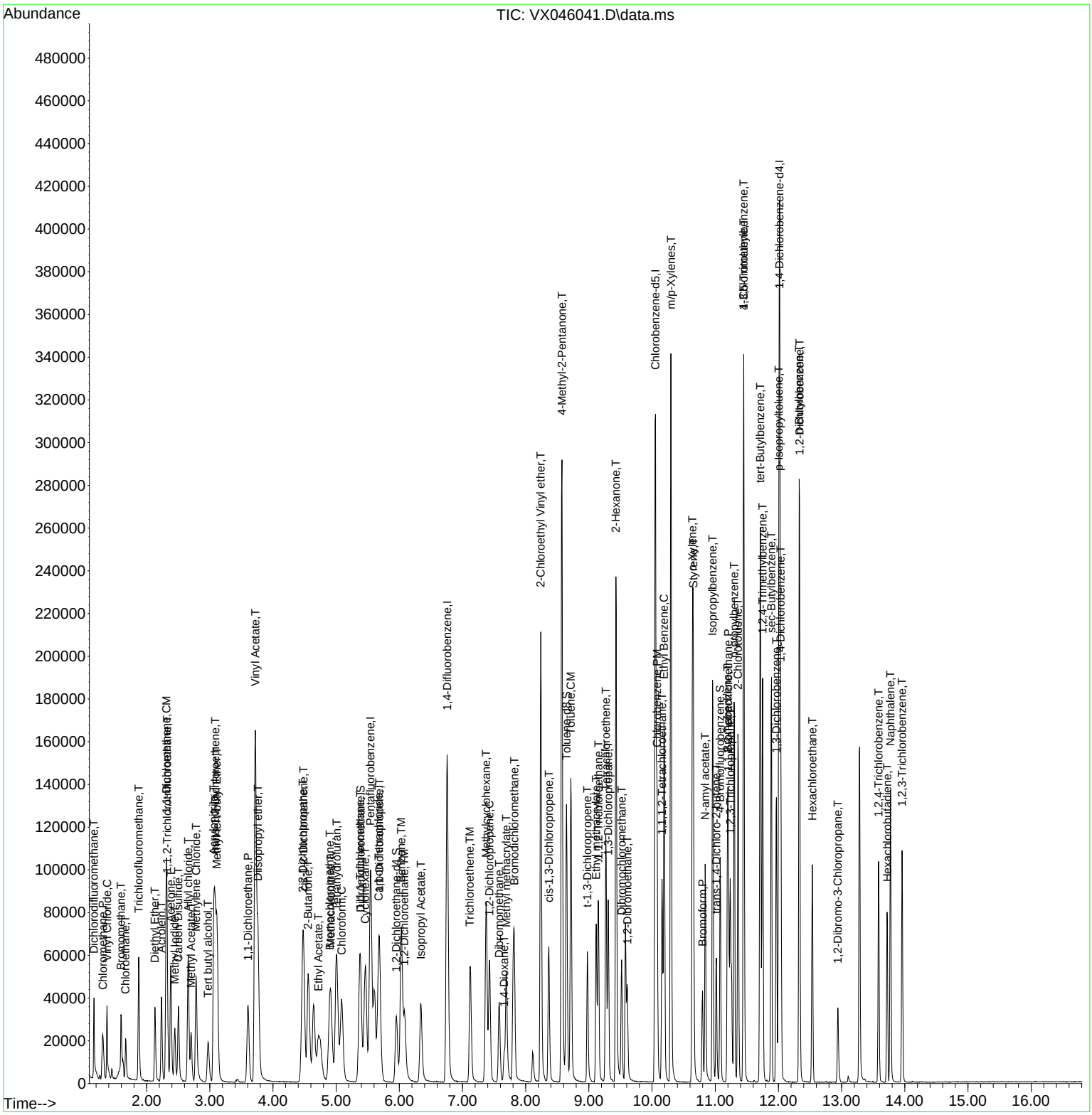
(#) = qualifier out of range (m) = manual integration (+) = signals summed

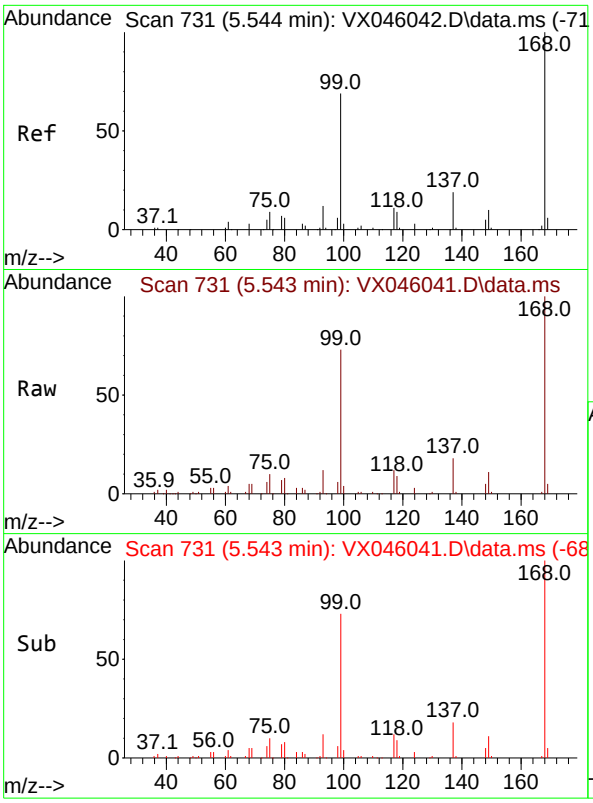
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046041.D
Acq On : 05 May 2025 11:35
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Quant Time: May 06 06:08:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration



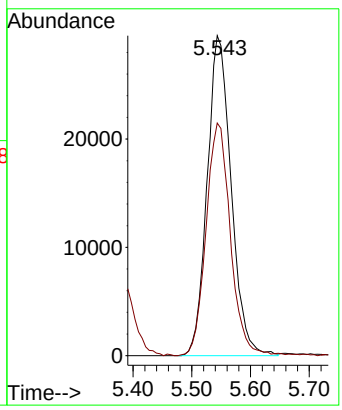


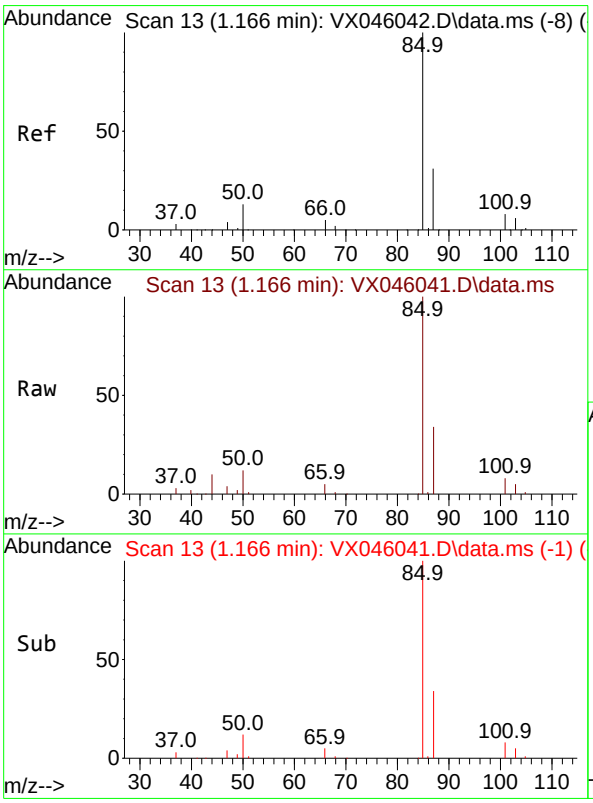
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.543 min Scan# 7
Delta R.T. -0.001 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:168 Resp: 83671

Ion	Ratio	Lower	Upper
168	100		
99	72.7	54.9	82.3

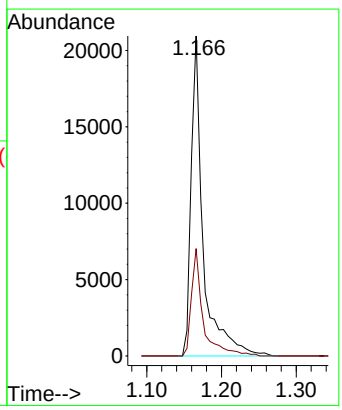


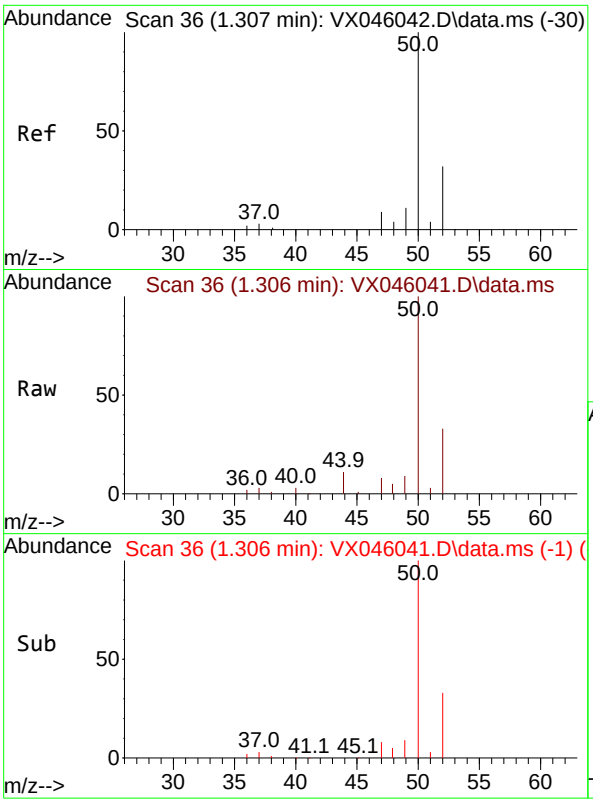


#2
Dichlorodifluoromethane
Concen: 12.638 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 85 Resp: 23341

Ion	Ratio	Lower	Upper
85	100		
87	33.5	15.7	47.1



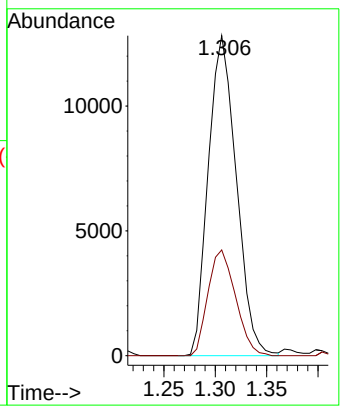


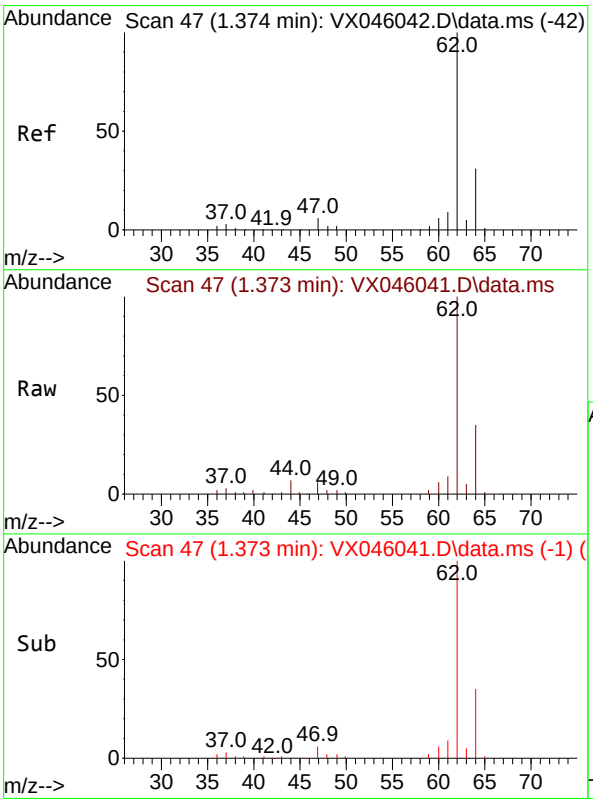
#3
Chloromethane
Concen: 13.371 ug/l
RT: 1.306 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 50 Resp: 24316

Ion	Ratio	Lower	Upper
50	100		
52	33.0	25.4	38.2

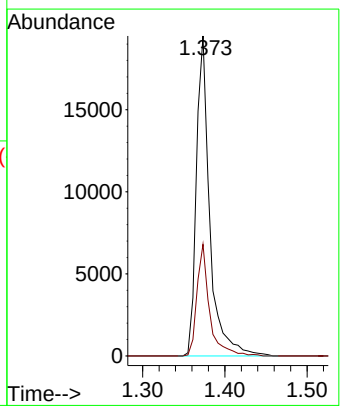


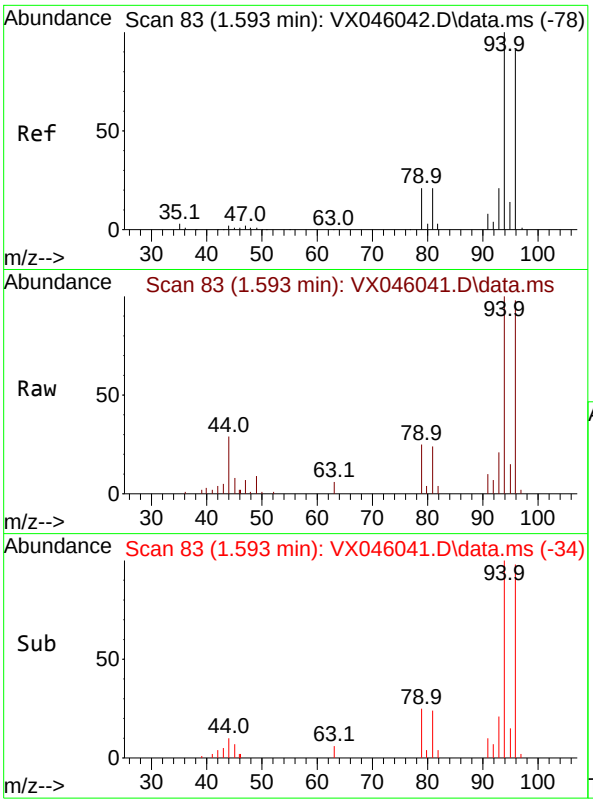


#4
Vinyl Chloride
Concen: 13.868 ug/l
RT: 1.373 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 62 Resp: 22096

Ion	Ratio	Lower	Upper
62	100		
64	34.9	25.2	37.8



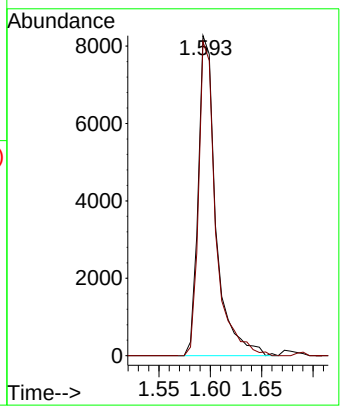


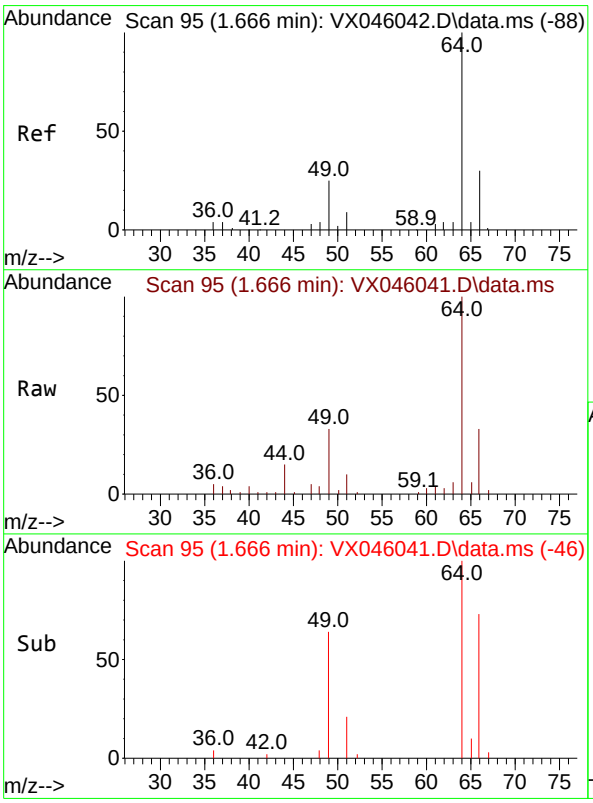
#5
Bromomethane
Concen: 12.279 ug/l
RT: 1.593 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 94 Resp: 9920

Ion	Ratio	Lower	Upper
94	100		
96	98.1	72.8	109.2

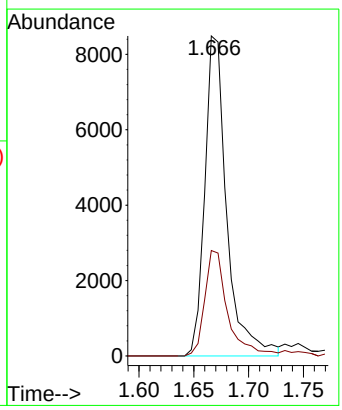


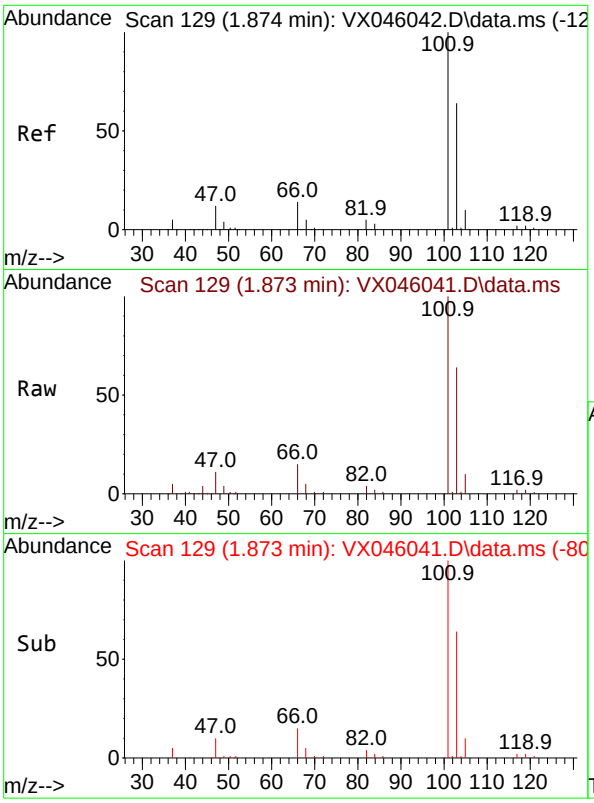


#6
Chloroethane
Concen: 14.414 ug/l
RT: 1.666 min Scan# 95
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 64 Resp: 11832

Ion	Ratio	Lower	Upper
64	100		
66	32.9	24.3	36.5



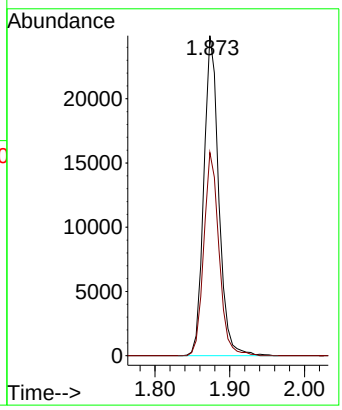


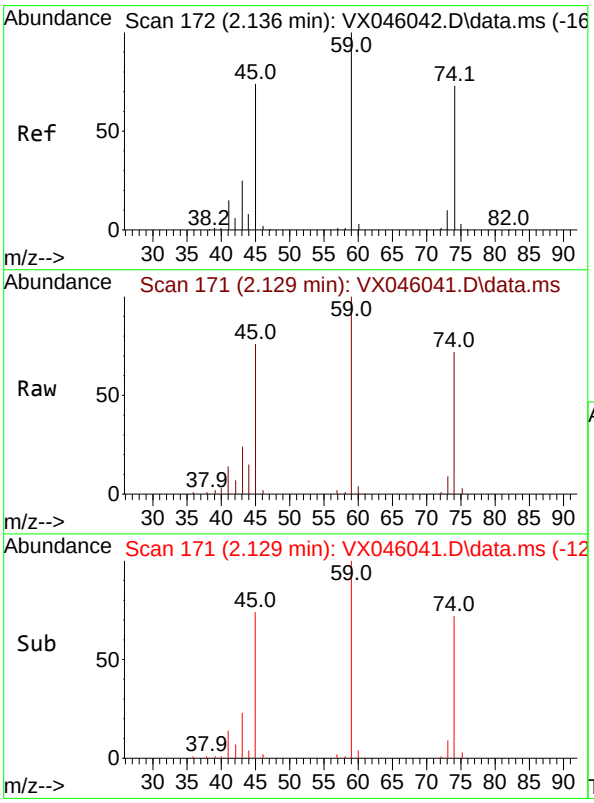
#7
Trichlorofluoromethane
Concen: 14.271 ug/l
RT: 1.873 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:101 Resp: 34636

Ion	Ratio	Lower	Upper
101	100		
103	63.5	51.0	76.4

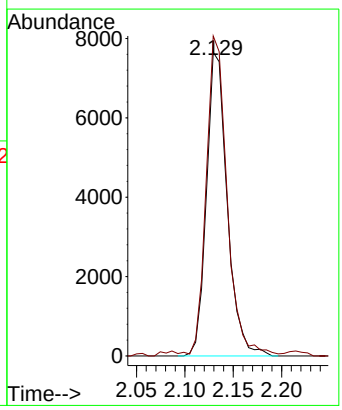


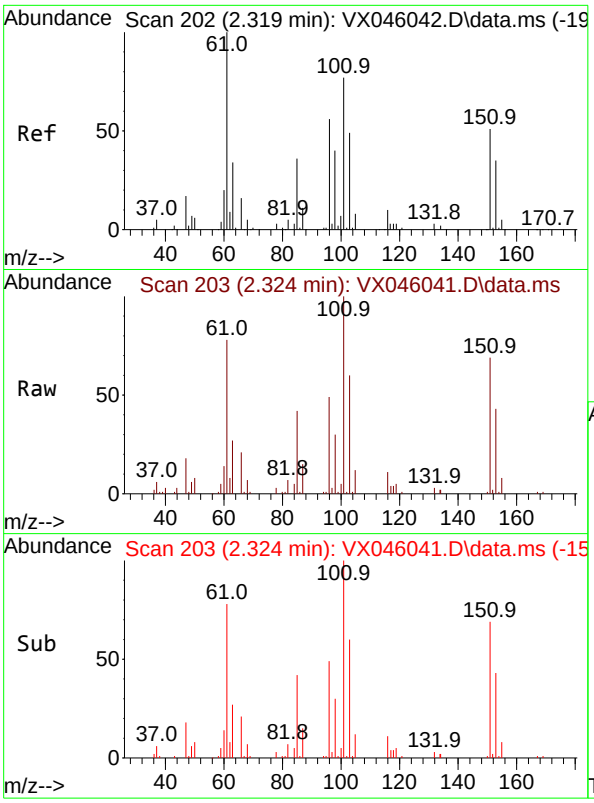


#8
Diethyl Ether
Concen: 14.278 ug/l
RT: 2.129 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 74 Resp: 11392

Ion	Ratio	Lower	Upper
74	100		
45	103.7	54.9	164.8



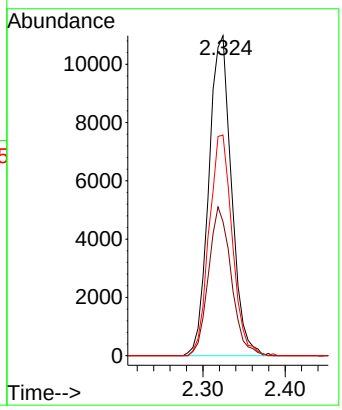


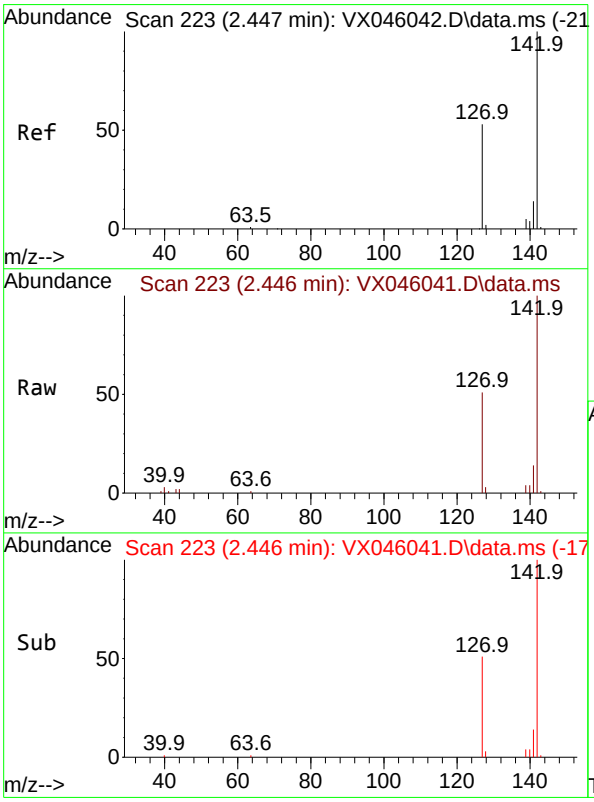
#9
1,1,2-Trichlorotrifluoroethane
Concen: 14.499 ug/l
RT: 2.324 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:101 Resp: 21027

Ion	Ratio	Lower	Upper
101	100		
85	46.6	38.6	58.0
151	70.4	55.2	82.8

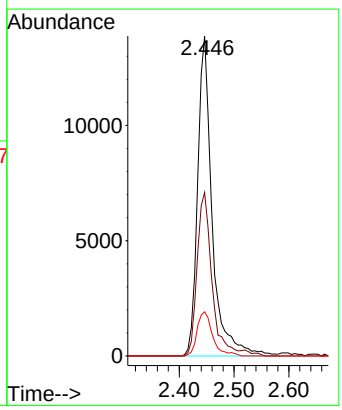


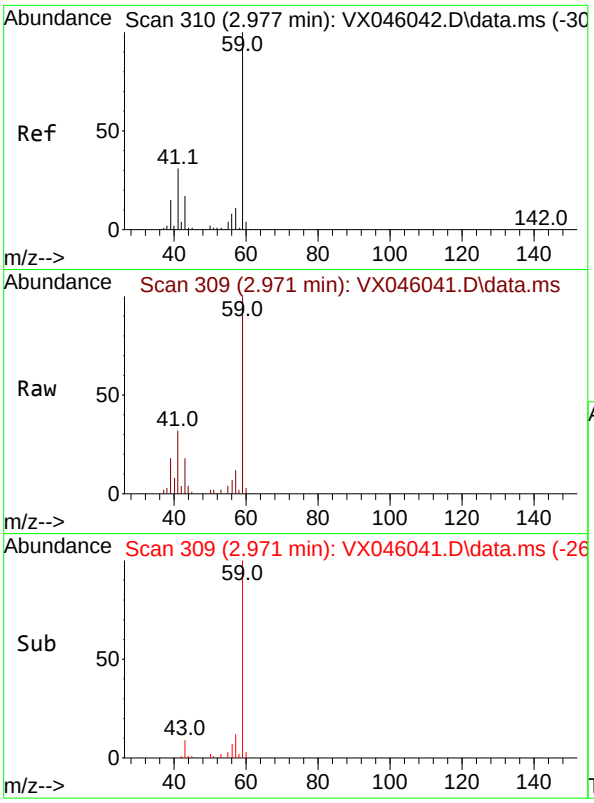


#10
Methyl Iodide
Concen: 15.070 ug/l
RT: 2.446 min Scan# 223
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion:142 Resp: 25661

Ion	Ratio	Lower	Upper
142	100		
127	53.0	41.7	62.5
141	14.7	11.5	17.3



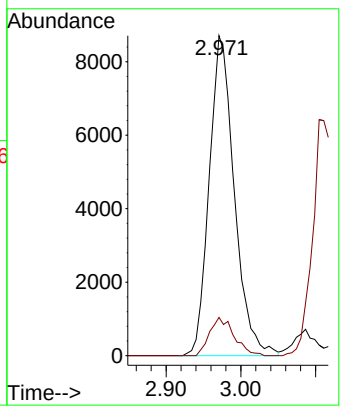


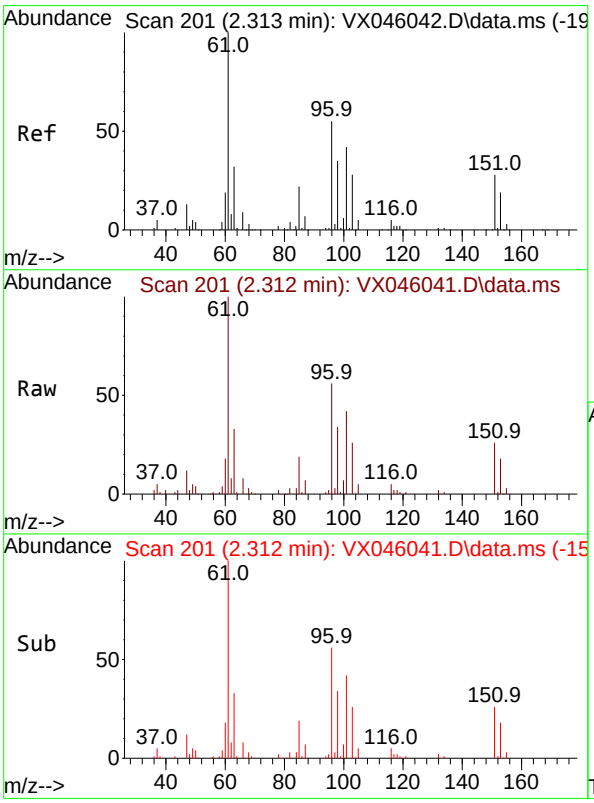
#11
Tert butyl alcohol
Concen: 68.662 ug/l
RT: 2.971 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 59 Resp: 20370

Ion	Ratio	Lower	Upper
59	100		
57	11.7	8.6	12.8

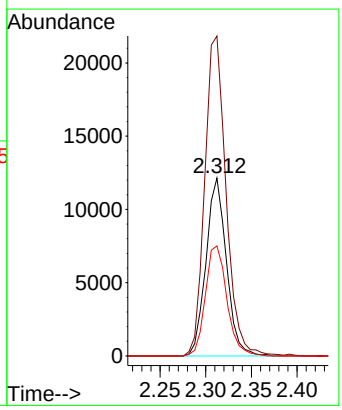


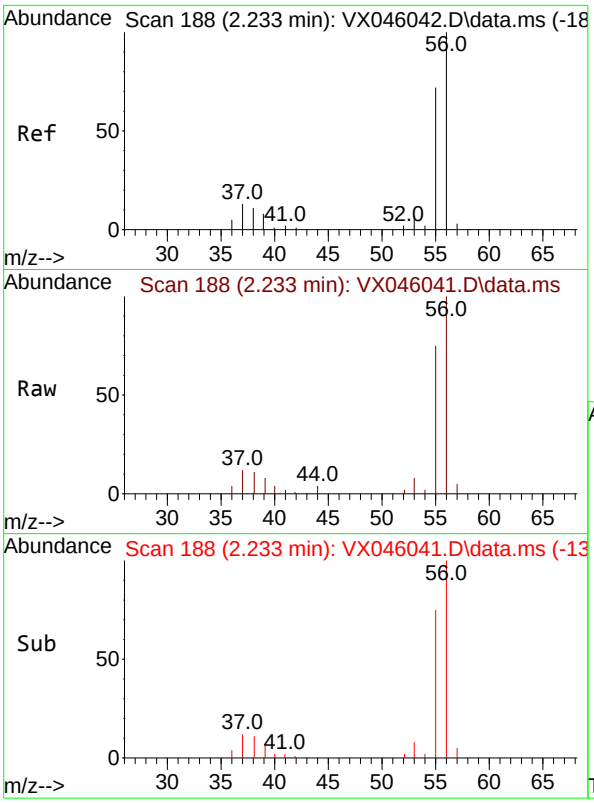


#12
1,1-Dichloroethene
Concen: 13.385 ug/l
RT: 2.312 min Scan# 201
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 96 Resp: 18899

Ion	Ratio	Lower	Upper
96	100		
61	179.8	146.2	219.2
98	61.8	51.0	76.6



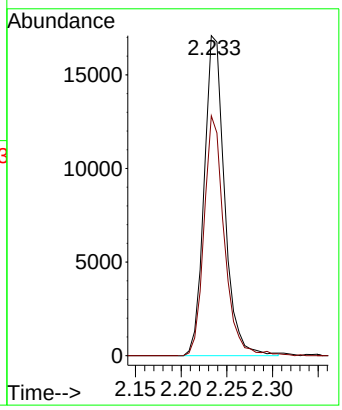


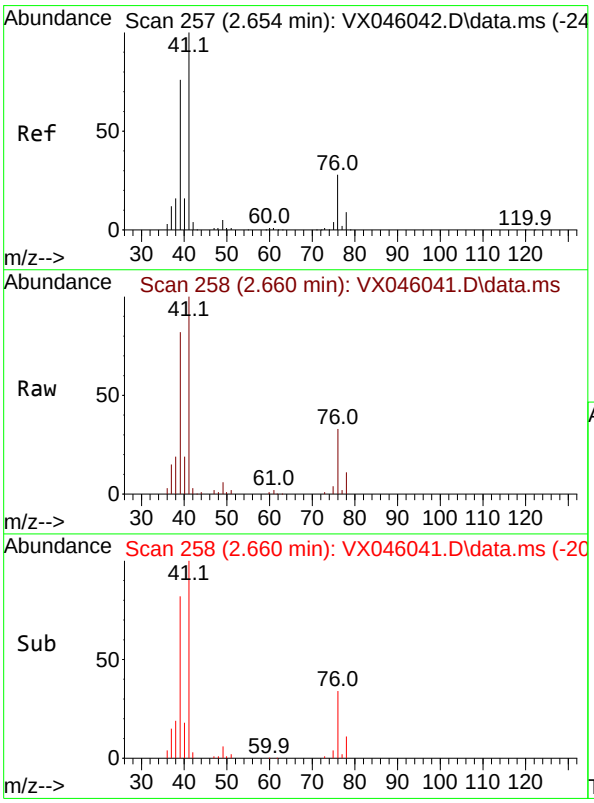
#13
Acrolein
Concen: 76.689 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 56 Resp: 26427

Ion	Ratio	Lower	Upper
56	100		
55	74.3	56.2	84.4

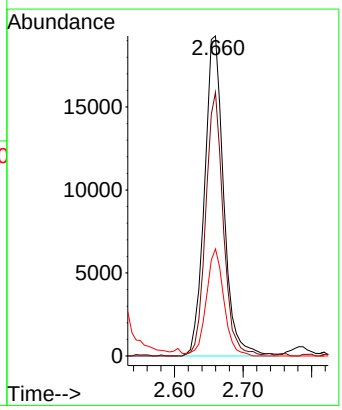


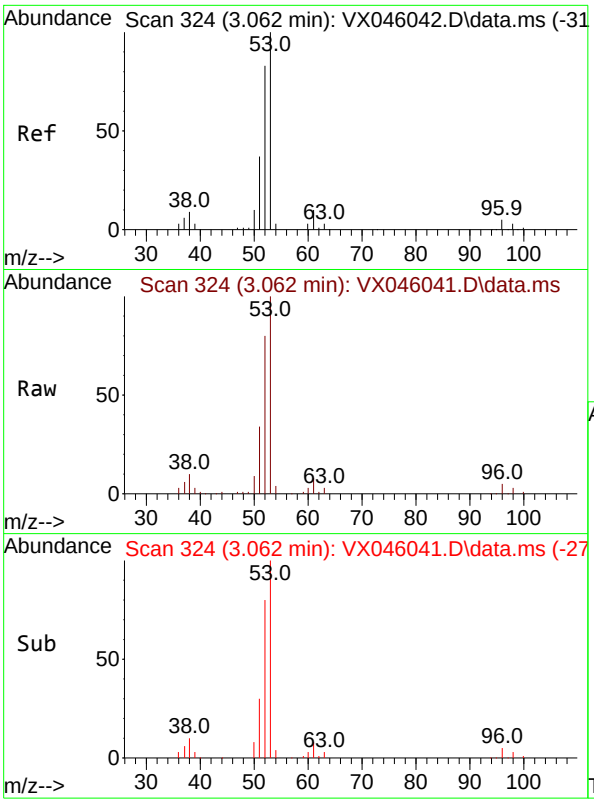


#14
Allyl chloride
Concen: 14.133 ug/l
RT: 2.660 min Scan# 258
Delta R.T. 0.006 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 41 Resp: 37708

Ion	Ratio	Lower	Upper
41	100		
39	75.0	60.6	90.8
76	30.6	24.9	37.3



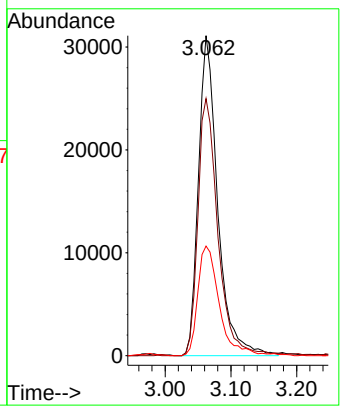


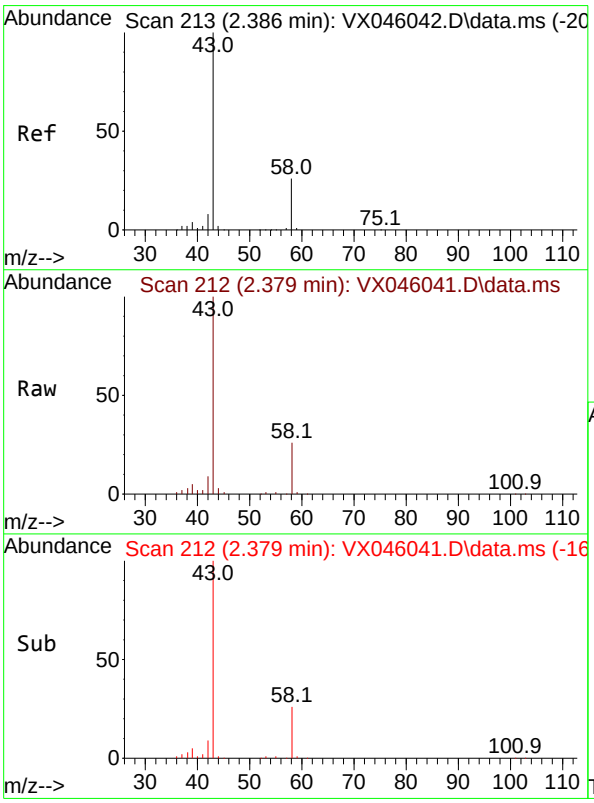
#15
Acrylonitrile
Concen: 71.312 ug/l
RT: 3.062 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 53 Resp: 63290

Ion	Ratio	Lower	Upper
53	100		
52	83.5	65.3	97.9
51	38.4	29.8	44.8

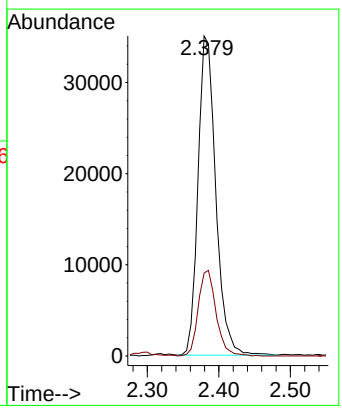


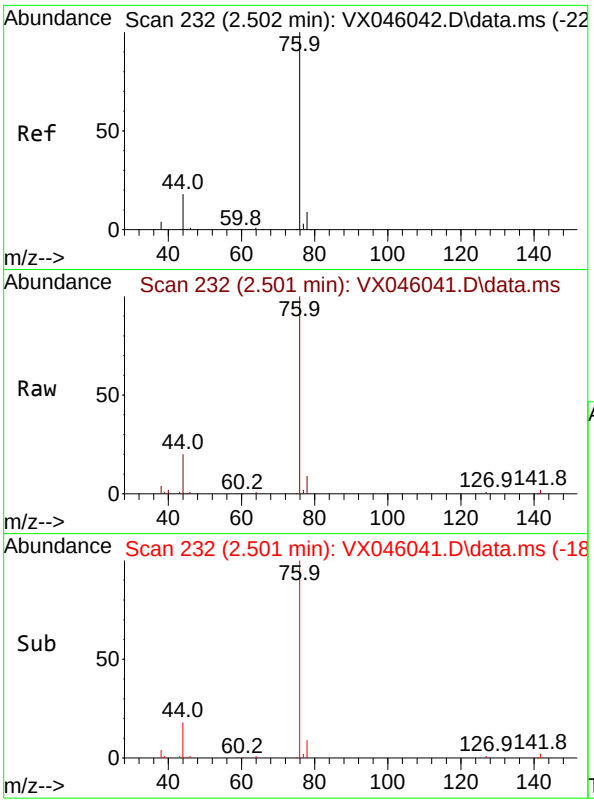


#16
Acetone
Concen: 70.884 ug/l
RT: 2.379 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 43 Resp: 60363

Ion	Ratio	Lower	Upper
43	100		
58	26.0	21.2	31.8



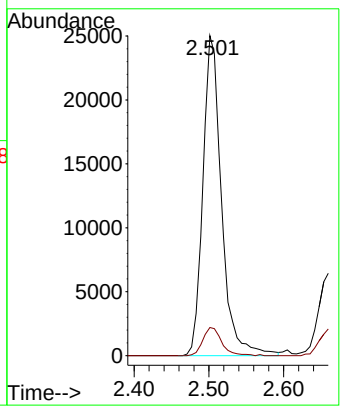


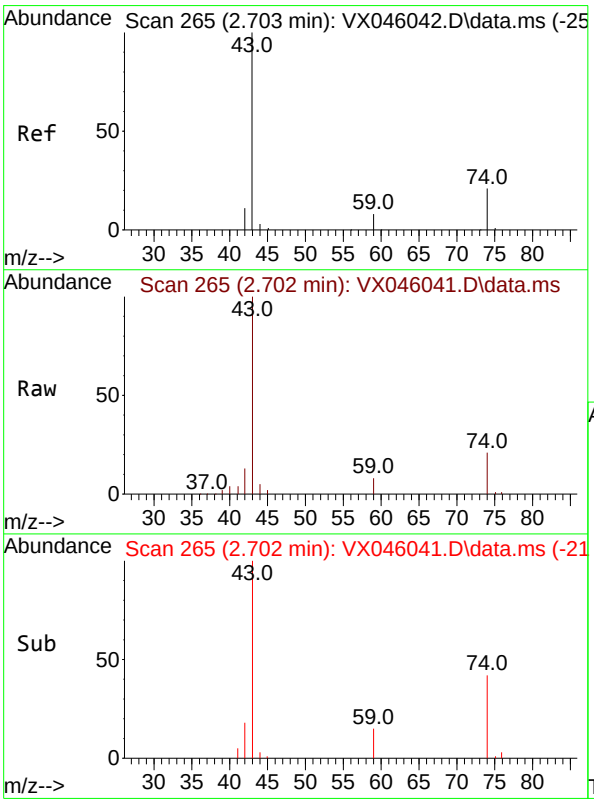
#17
Carbon Disulfide
Concen: 13.251 ug/l
RT: 2.501 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 76 Resp: 43348

Ion	Ratio	Lower	Upper
76	100		
78	8.8	7.0	10.4

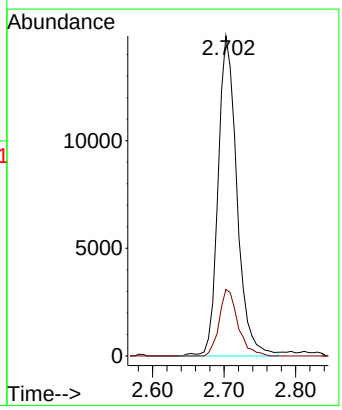


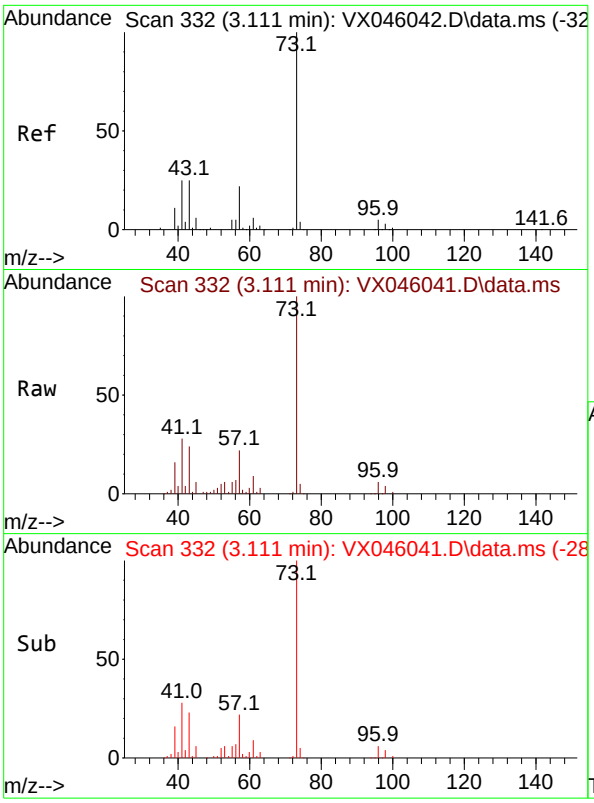


#18
Methyl Acetate
Concen: 13.397 ug/l
RT: 2.702 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 43 Resp: 27234

Ion	Ratio	Lower	Upper
43	100		
74	20.7	16.7	25.1



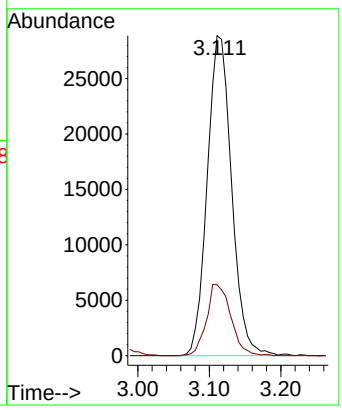


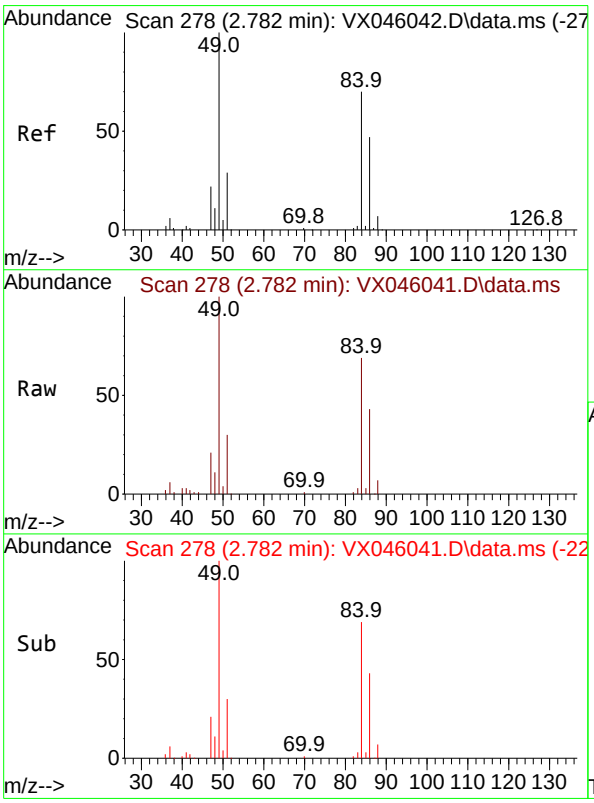
#19
Methyl tert-butyl Ether
Concen: 13.890 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 73 Resp: 68402

Ion	Ratio	Lower	Upper
73	100		
57	22.2	17.7	26.5

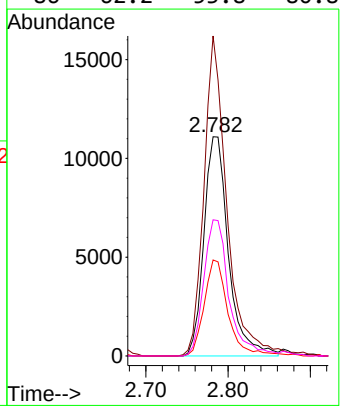


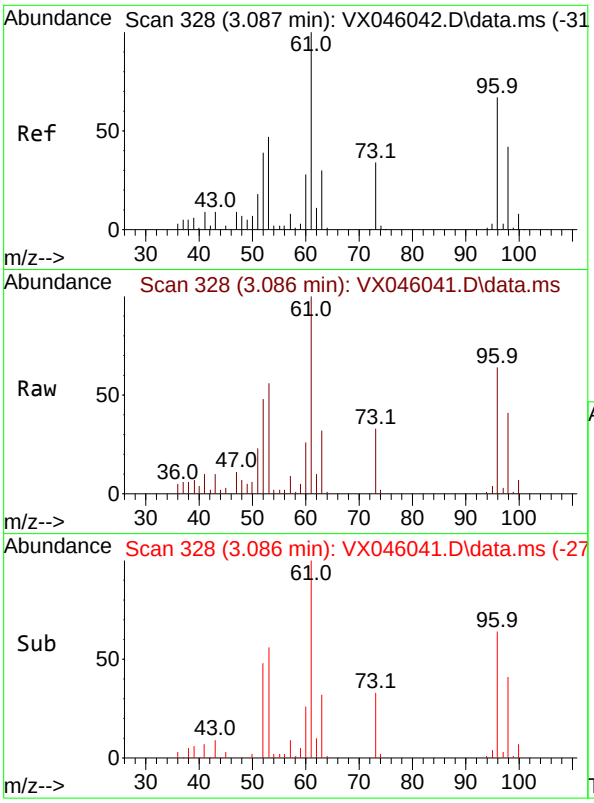


#20
Methylene Chloride
Concen: 13.362 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 84 Resp: 23050

Ion	Ratio	Lower	Upper
84	100		
49	146.0	113.9	170.9
51	43.8	33.5	50.3
86	62.2	53.8	80.8



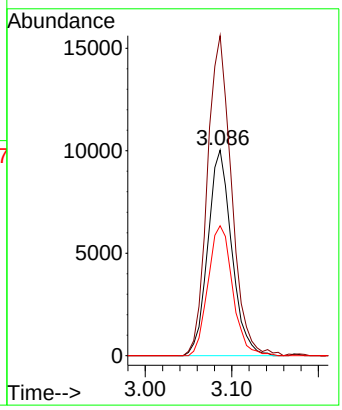


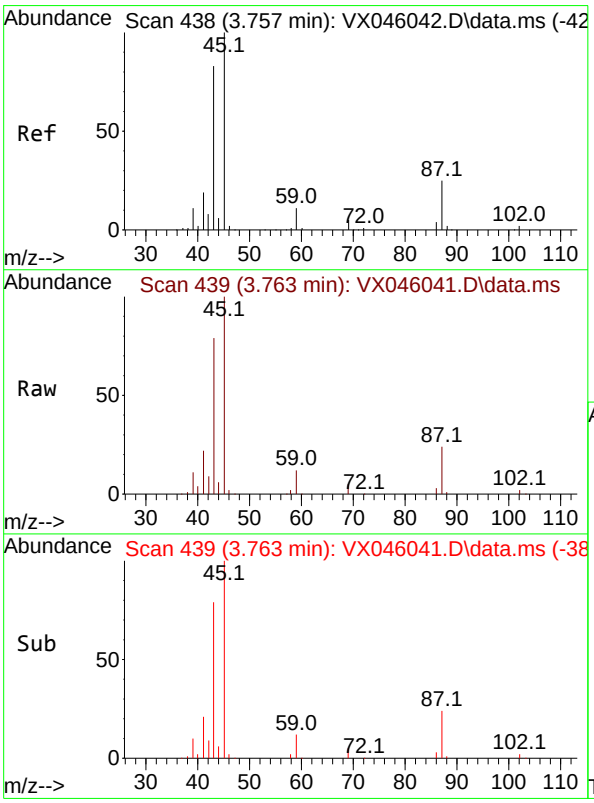
#21
trans-1,2-Dichloroethene
Concen: 13.294 ug/l
RT: 3.086 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 96 Resp: 19161

Ion	Ratio	Lower	Upper
96	100		
61	155.6	119.5	179.3
98	63.2	50.0	75.0

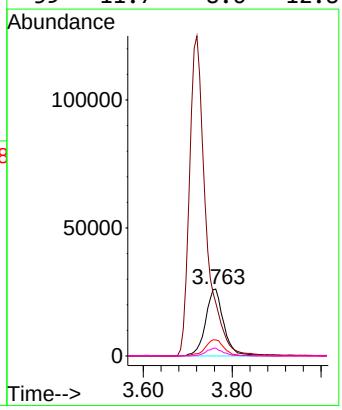


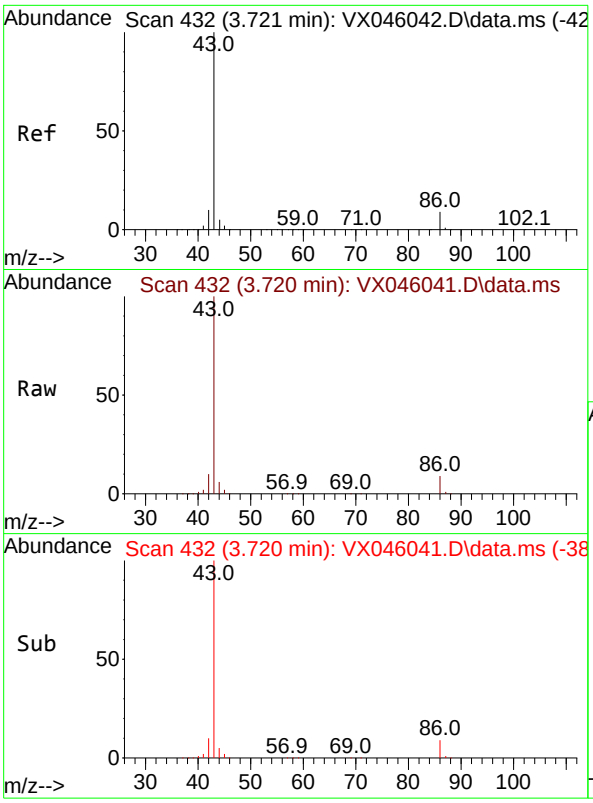


#22
Diisopropyl ether
Concen: 14.896 ug/l
RT: 3.763 min Scan# 439
Delta R.T. 0.006 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 45 Resp: 74257

Ion	Ratio	Lower	Upper
45	100		
43	78.2	66.6	100.0
87	24.0	19.8	29.6
59	11.7	8.6	12.8



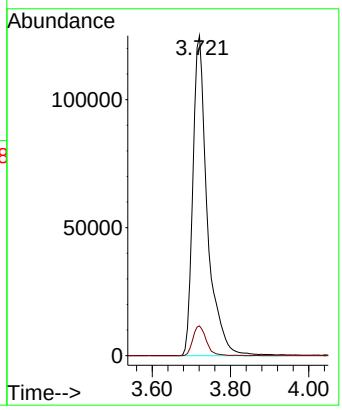


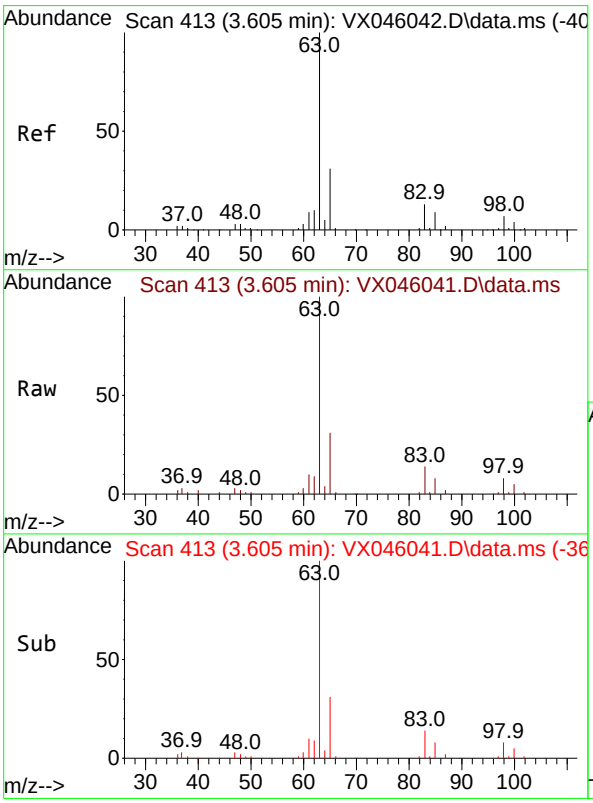
#23
Vinyl Acetate
Concen: 73.230 ug/l
RT: 3.720 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 322598

Ion	Ratio	Lower	Upper
43	100		
86	9.3	7.5	11.3

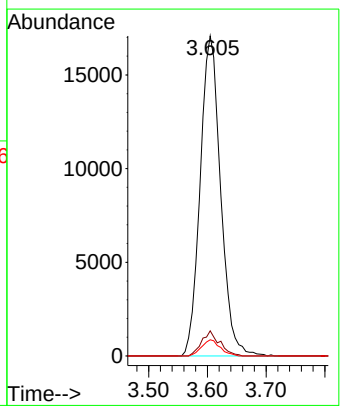


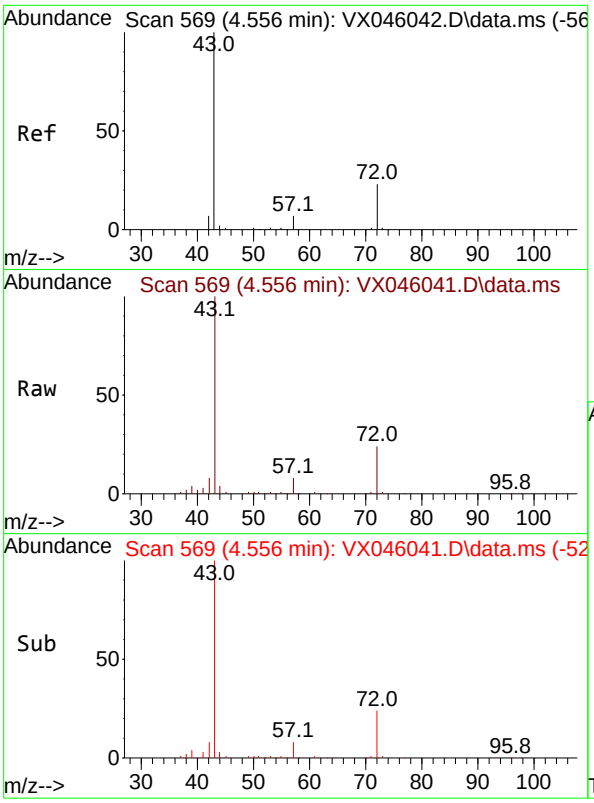


#24
1,1-Dichloroethane
Concen: 14.082 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 63 Resp: 41257

Ion	Ratio	Lower	Upper
63	100		
98	7.9	3.6	10.8
100	5.0	2.1	6.3



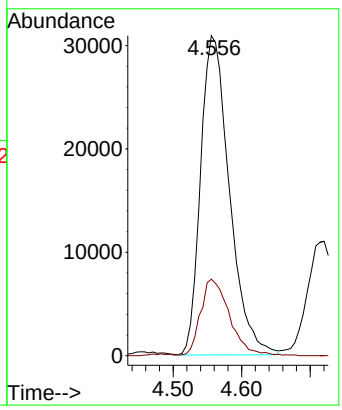


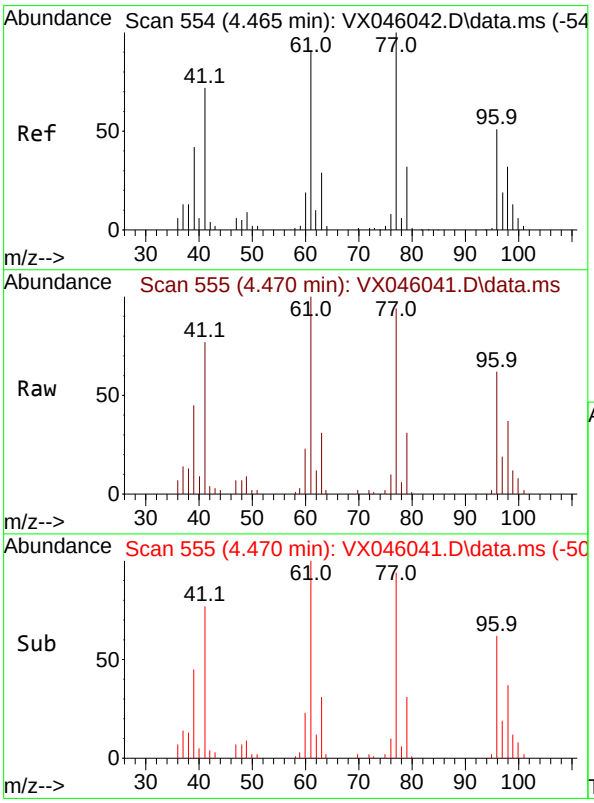
#25
2-Butanone
Concen: 73.489 ug/l
RT: 4.556 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 90331

Ion	Ratio	Lower	Upper
43	100		
72	23.8	18.4	27.6

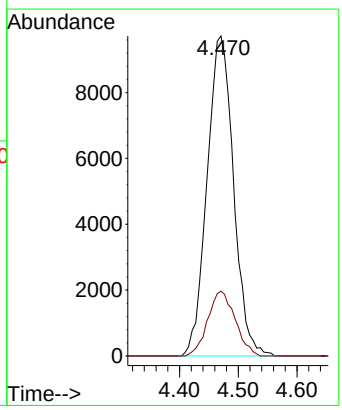


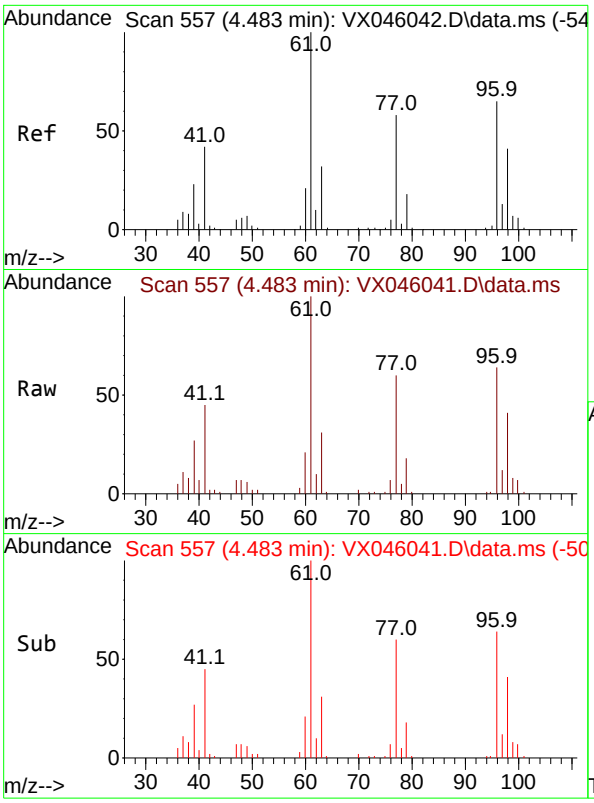


#26
2,2-Dichloropropane
Concen: 13.729 ug/l
RT: 4.470 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 77 Resp: 30472

Ion	Ratio	Lower	Upper
77	100		
97	20.9	10.5	31.5



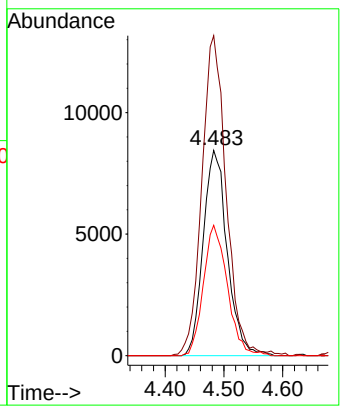


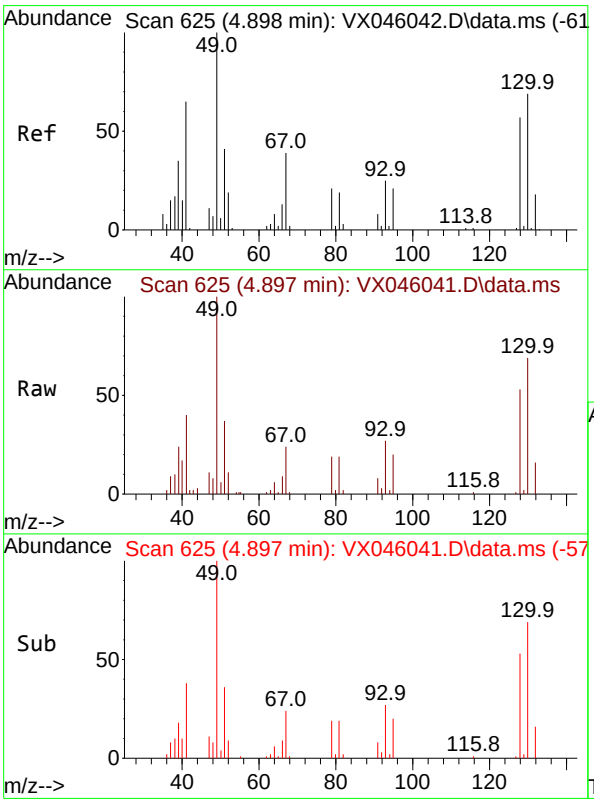
#27
cis-1,2-Dichloroethene
Concen: 13.791 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 96 Resp: 23970

Ion	Ratio	Lower	Upper
96	100		
61	158.3	0.0	322.8
98	63.5	0.0	129.0

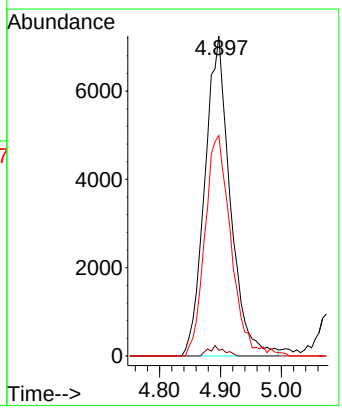


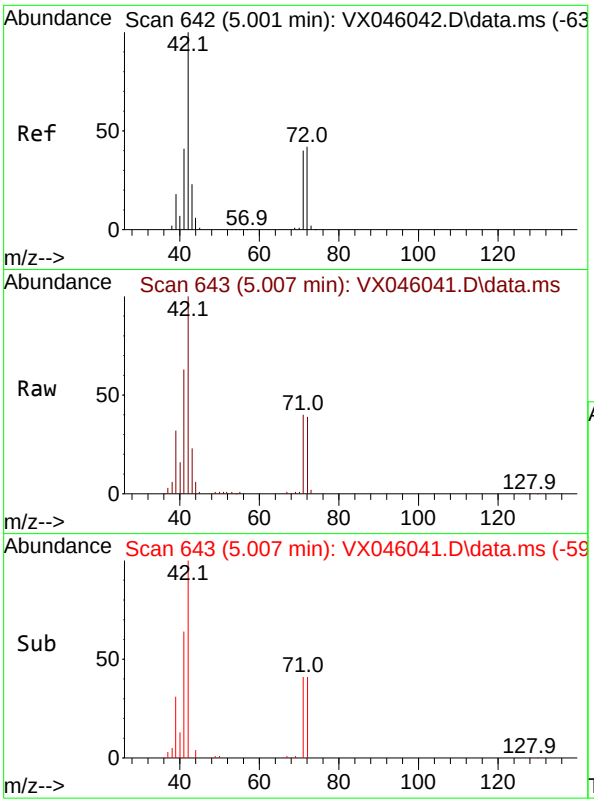


#28
Bromochloromethane
Concen: 13.497 ug/l
RT: 4.897 min Scan# 625
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 49 Resp: 21028

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	4.0
130	70.9	56.2	84.2



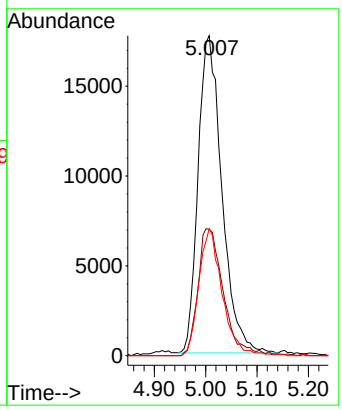


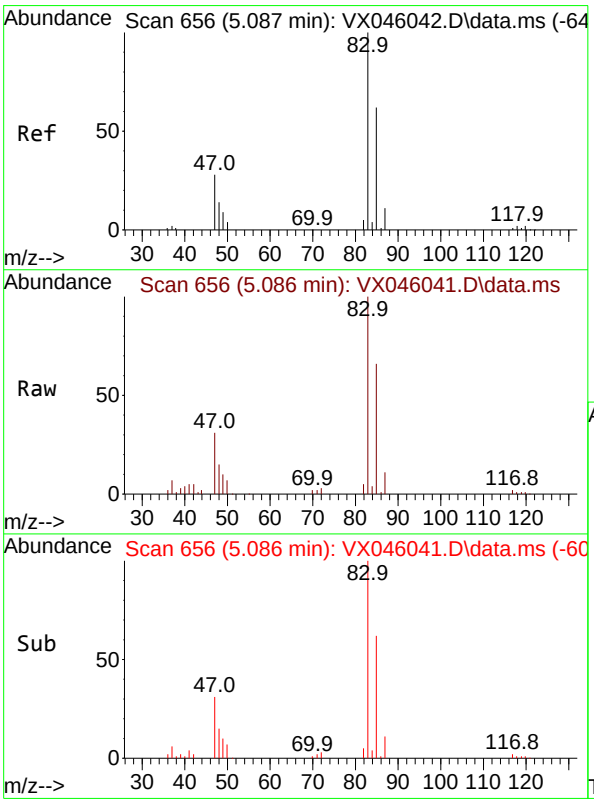
#29
Tetrahydrofuran
Concen: 71.175 ug/l
RT: 5.007 min Scan# 64
Delta R.T. 0.006 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 42 Resp: 56819

Ion	Ratio	Lower	Upper
42	100		
72	42.3	33.7	50.5
71	39.2	31.4	47.2

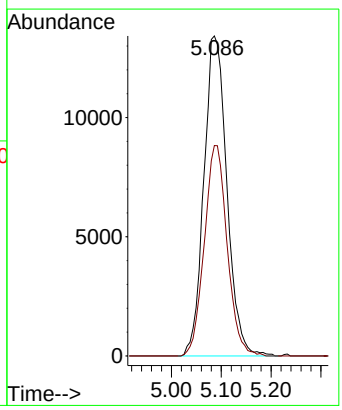


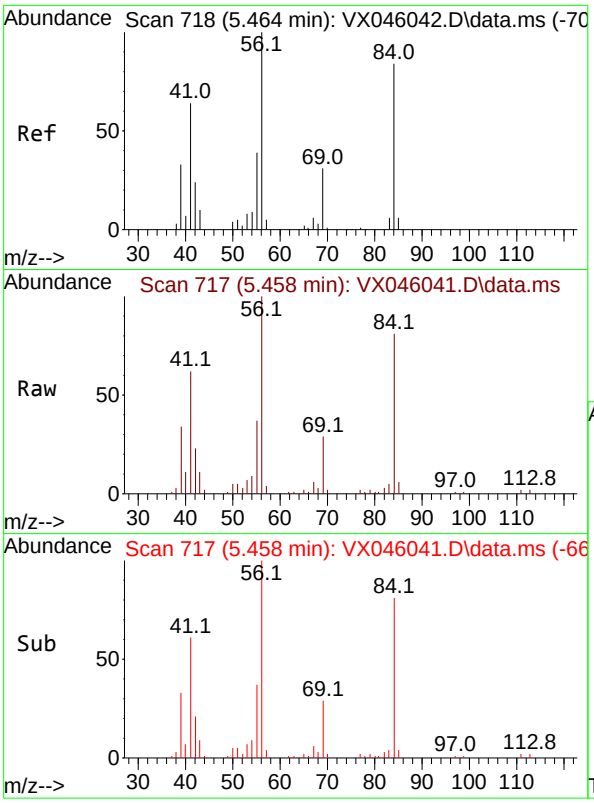


#30
Chloroform
Concen: 14.144 ug/l
RT: 5.086 min Scan# 656
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 83 Resp: 43065

Ion	Ratio	Lower	Upper
83	100		
85	65.7	49.3	73.9



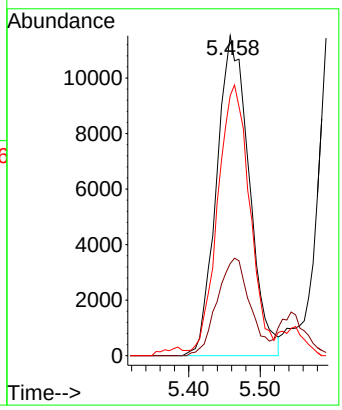


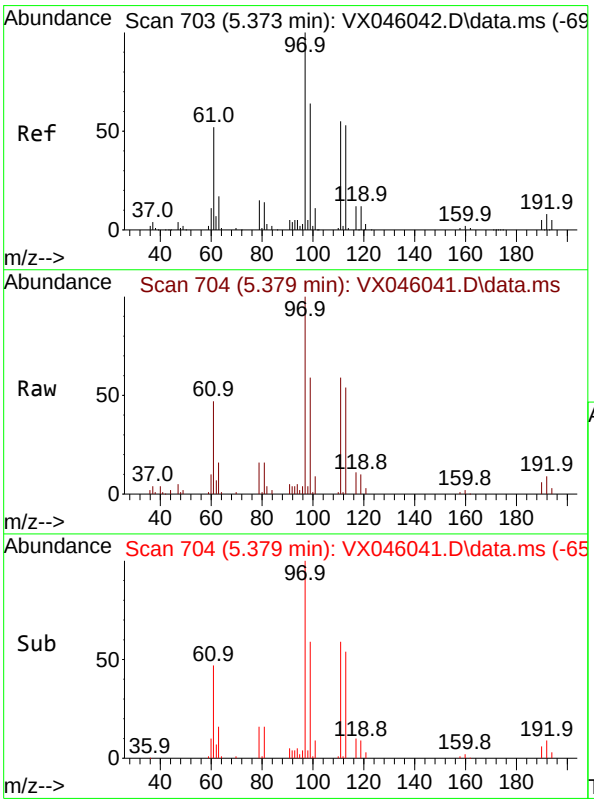
#31
Cyclohexane
Concen: 14.769 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 56 Resp: 36470

Ion	Ratio	Lower	Upper
56	100		
69	28.8	24.4	36.6
84	78.5	66.9	100.3

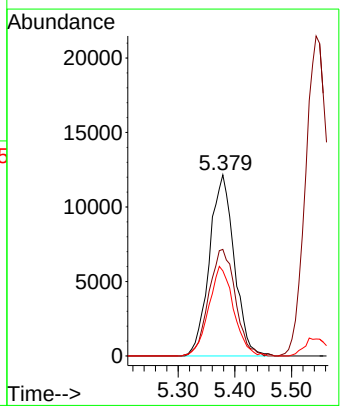


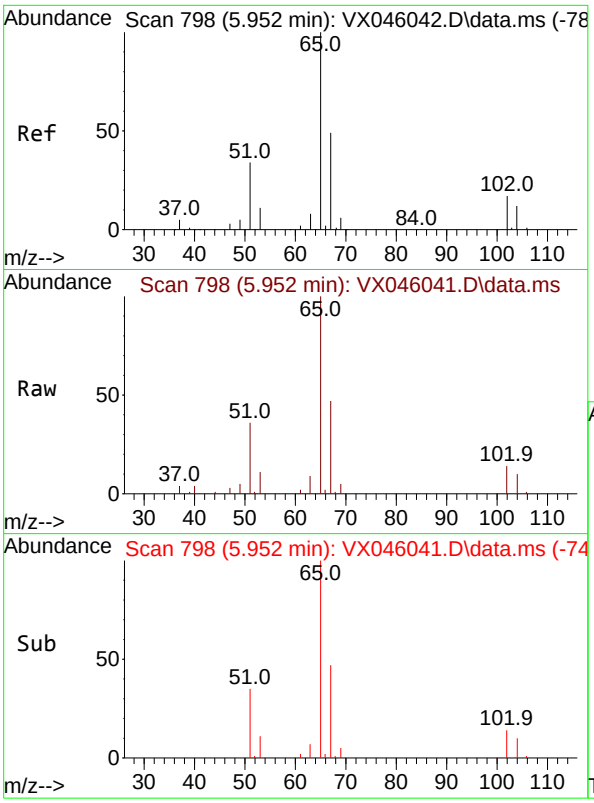


#32
1,1,1-Trichloroethane
Concen: 14.092 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.006 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 97 Resp: 37003

Ion	Ratio	Lower	Upper
97	100		
99	62.8	51.8	77.6
61	49.5	40.1	60.1



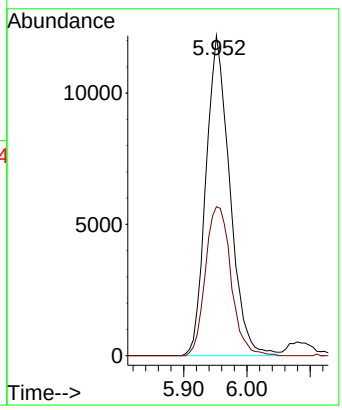


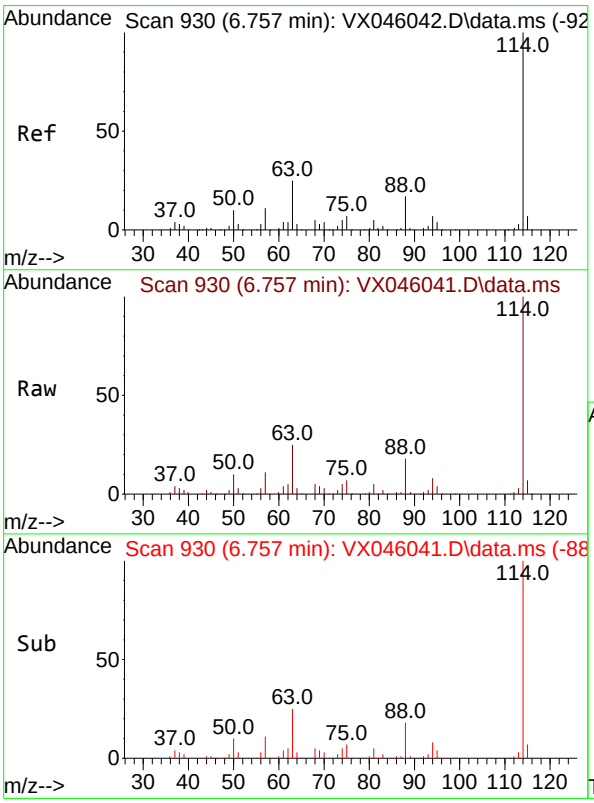
#33
1,2-Dichloroethane-d4
Concen: 12.820 ug/l
RT: 5.952 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 65 Resp: 31909

Ion	Ratio	Lower	Upper
65	100		
67	49.9	0.0	99.0

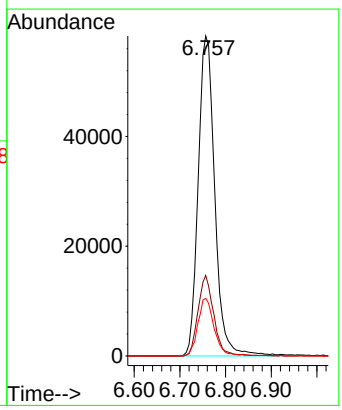


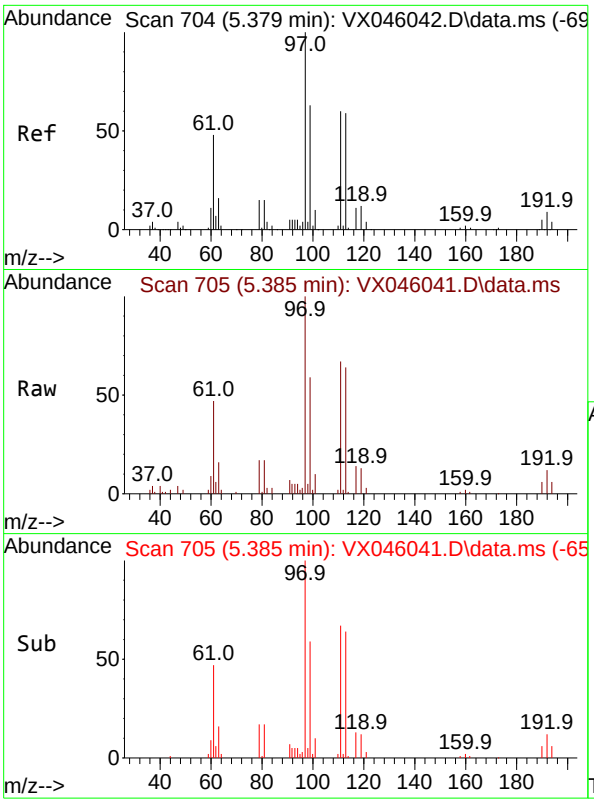


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion:114 Resp: 147096

Ion	Ratio	Lower	Upper
114	100		
63	25.2	0.0	49.2
88	18.0	0.0	33.6



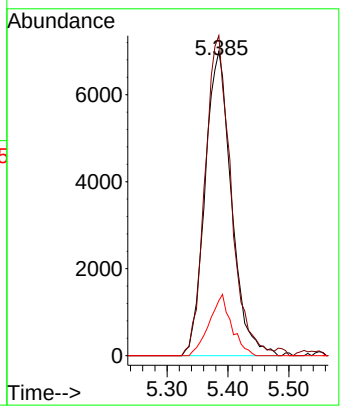


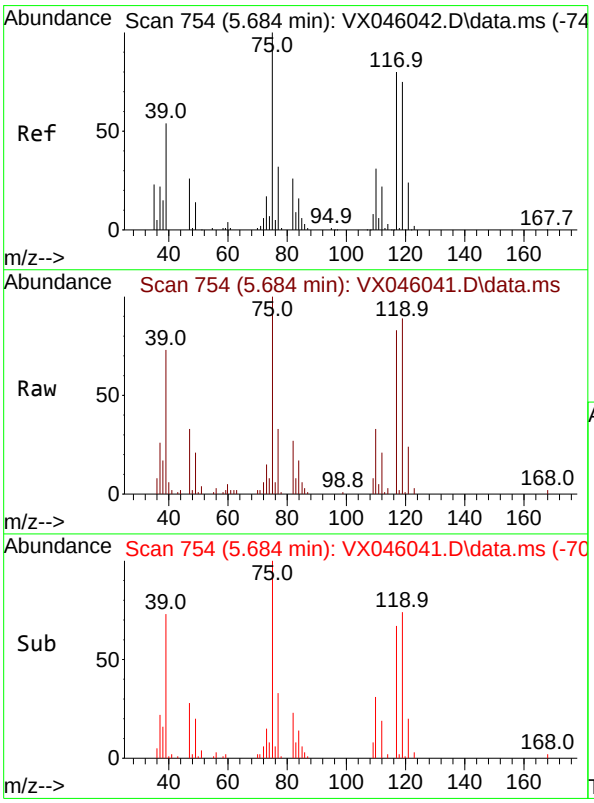
#35
Dibromofluoromethane
Concen: 12.804 ug/l
RT: 5.385 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:113 Resp: 21112

Ion	Ratio	Lower	Upper
113	100		
111	103.0	83.1	124.7
192	17.0	13.3	19.9

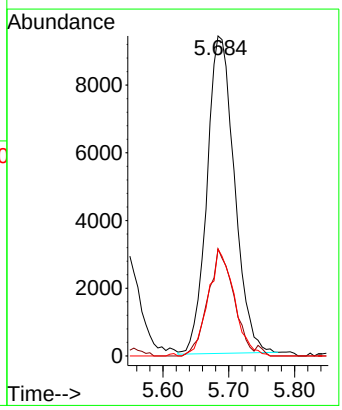


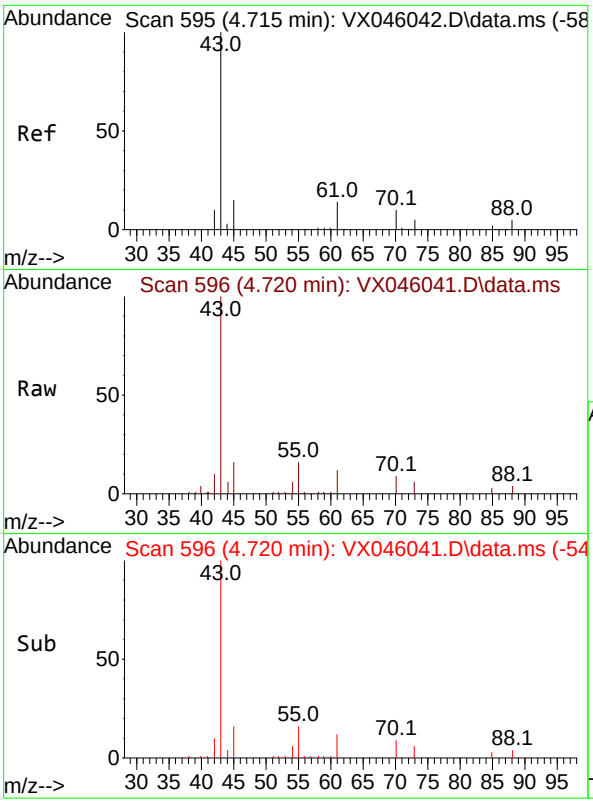


#36
1,1-Dichloropropene
Concen: 14.231 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 75 Resp: 27242

Ion	Ratio	Lower	Upper
75	100		
110	31.6	16.3	48.9
77	31.9	24.3	36.5



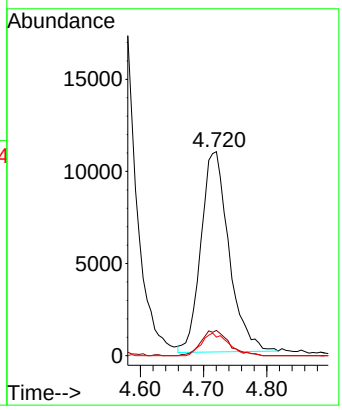


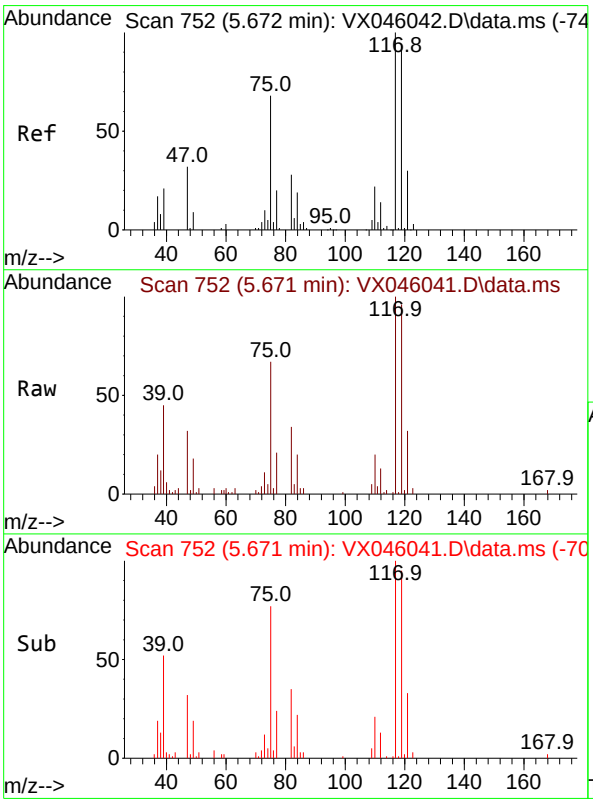
#37
Ethyl Acetate
Concen: 13.931 ug/l
RT: 4.720 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 33458

Ion	Ratio	Lower	Upper
43	100		
61	12.6	10.3	15.5
70	10.9	7.9	11.9

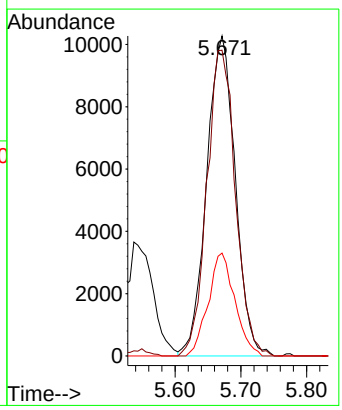


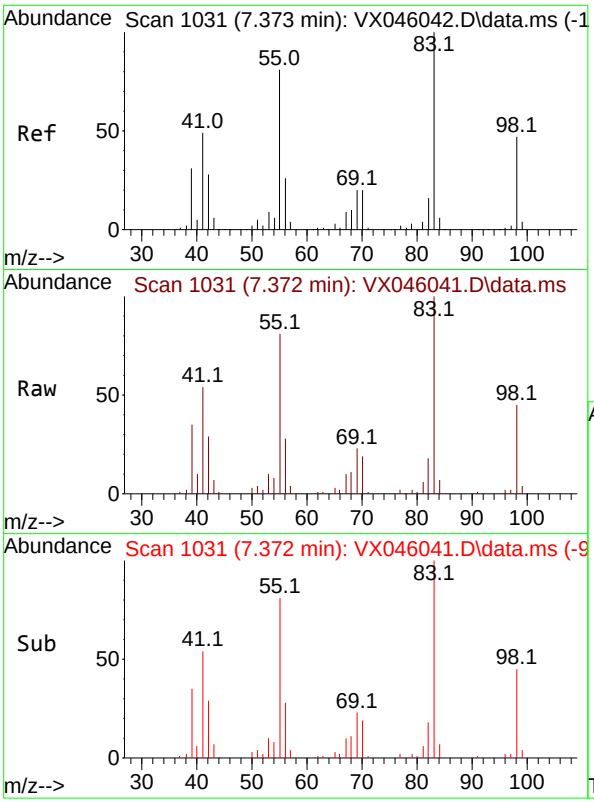


#38
Carbon Tetrachloride
Concen: 14.137 ug/l
RT: 5.671 min Scan# 752
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion:117 Resp: 31091

Ion	Ratio	Lower	Upper
117	100		
119	95.6	75.2	112.8
121	32.1	24.2	36.4



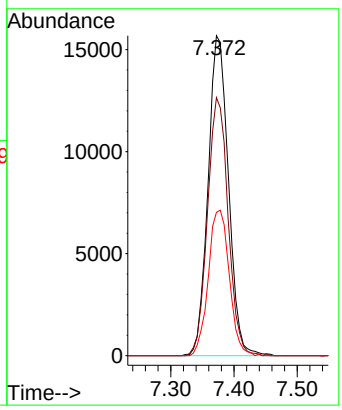


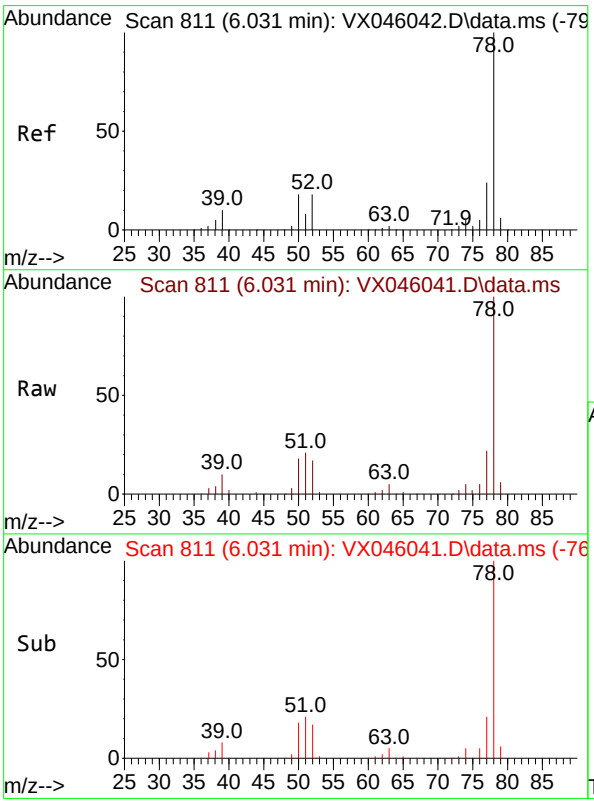
#39
Methylcyclohexane
Concen: 14.623 ug/l
RT: 7.372 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 83 Resp: 35077

Ion	Ratio	Lower	Upper
83	100		
55	80.7	64.7	97.1
98	44.8	37.4	56.2

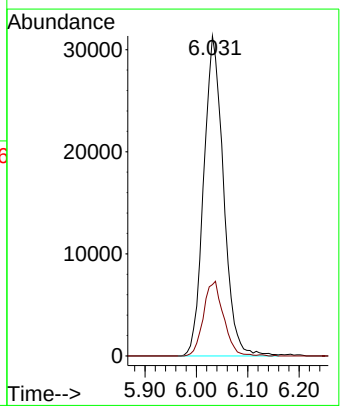


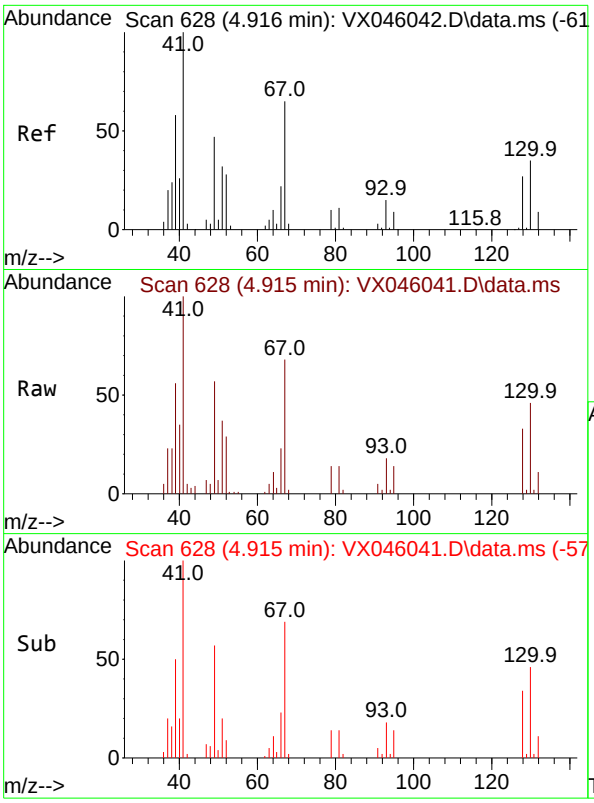


#40
Benzene
Concen: 14.140 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 78 Resp: 83898

Ion	Ratio	Lower	Upper
78	100		
77	22.3	19.0	28.4



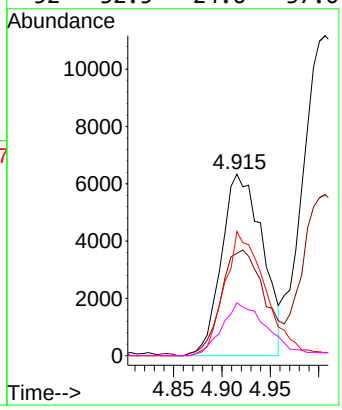


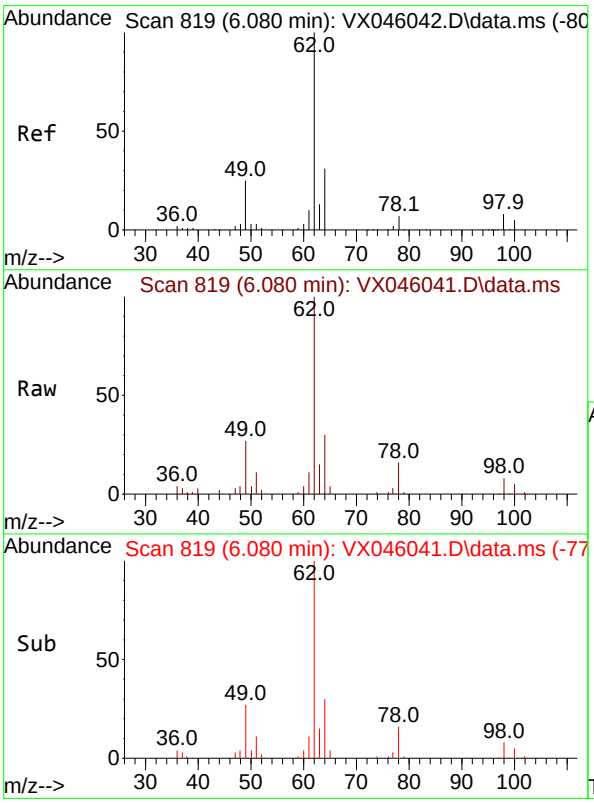
#41
Methacrylonitrile
Concen: 14.038 ug/l
RT: 4.915 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 41 Resp: 18732

Ion	Ratio	Lower	Upper
41	100		
39	62.6	47.2	70.8
67	68.3	50.7	76.1
52	32.5	24.6	37.0

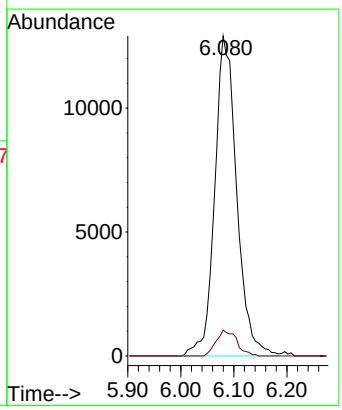


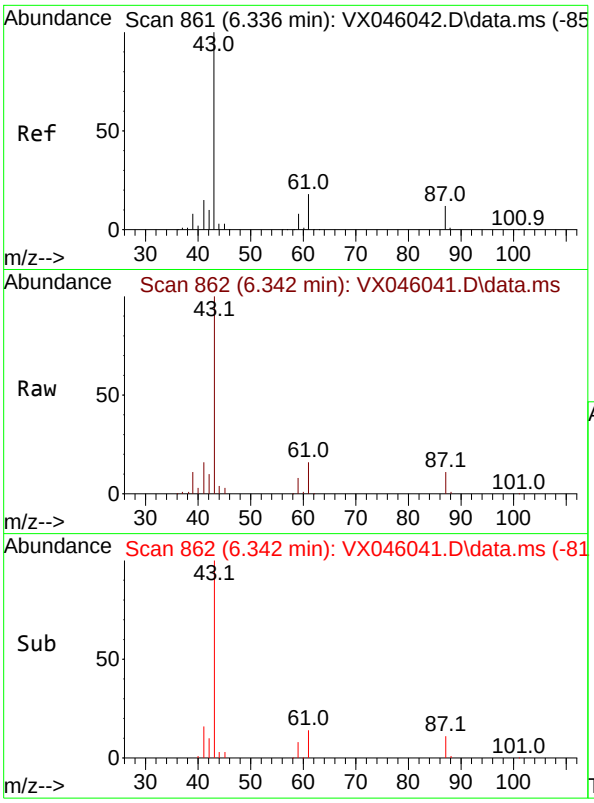


#42
1,2-Dichloroethane
Concen: 15.165 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 62 Resp: 37203

Ion	Ratio	Lower	Upper
62	100		
98	7.6	0.0	15.2



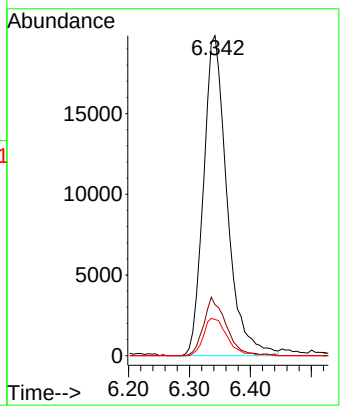


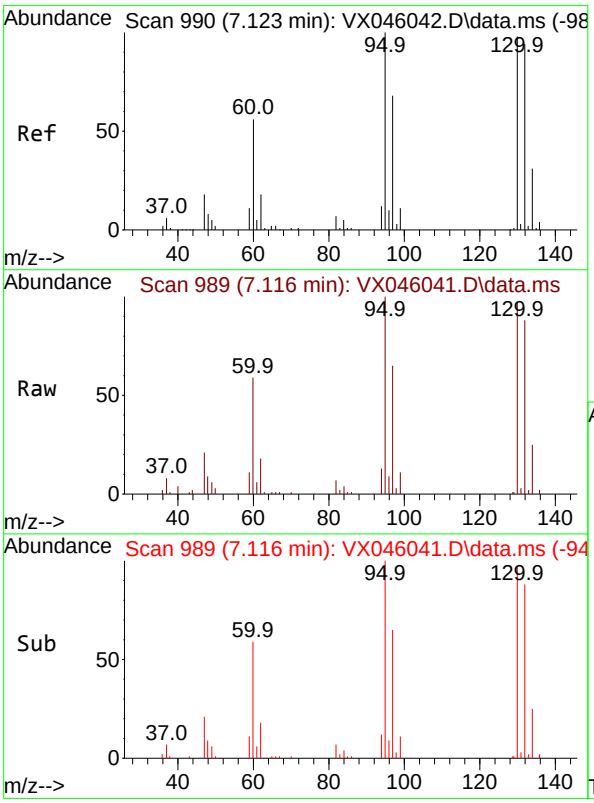
#43
Isopropyl Acetate
Concen: 14.512 ug/l
RT: 6.342 min Scan# 8
Delta R.T. 0.006 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 53275

Ion	Ratio	Lower	Upper
43	100		
61	17.3	14.3	21.5
87	11.6	9.5	14.3

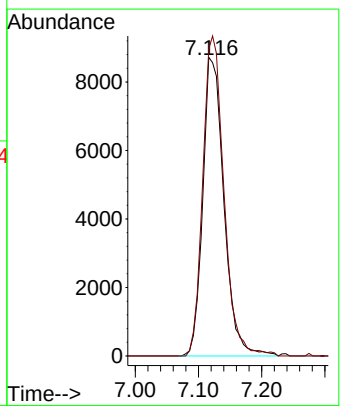


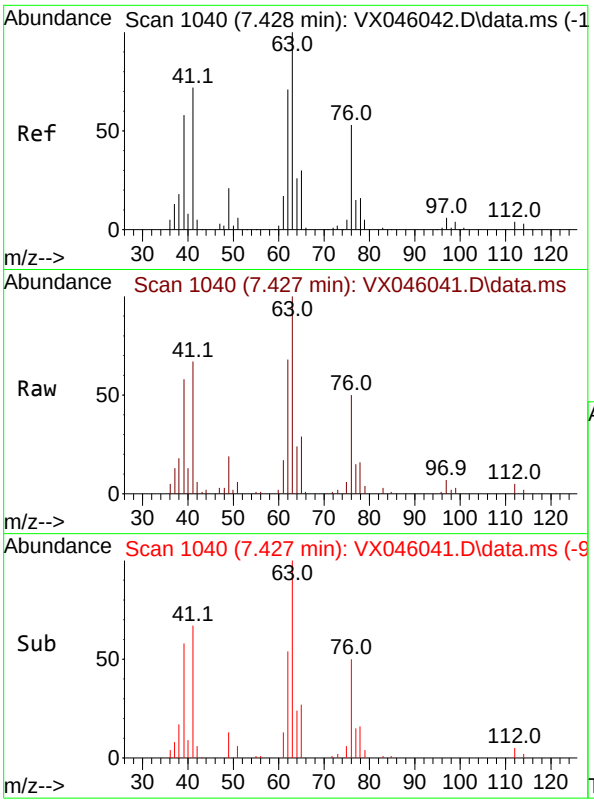


#44
Trichloroethene
Concen: 14.429 ug/l
RT: 7.116 min Scan# 989
Delta R.T. -0.006 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion:130 Resp: 20239

Ion	Ratio	Lower	Upper
130	100		
95	102.8	0.0	204.2



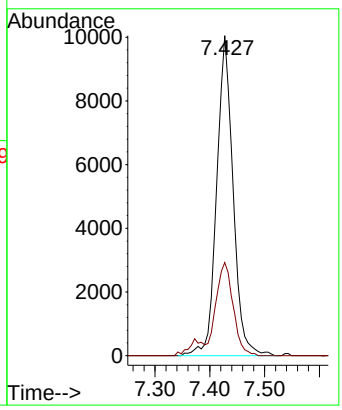


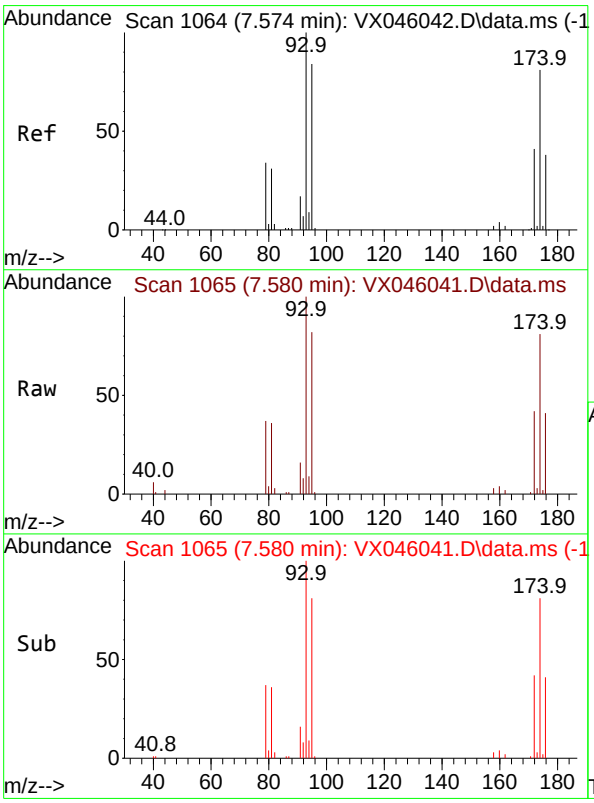
#45
1,2-Dichloropropane
Concen: 14.204 ug/l
RT: 7.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 63 Resp: 20940

Ion	Ratio	Lower	Upper
63	100		
65	29.1	24.1	36.1

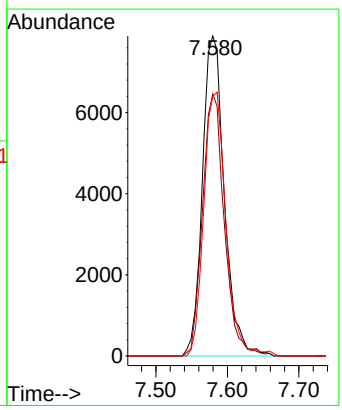


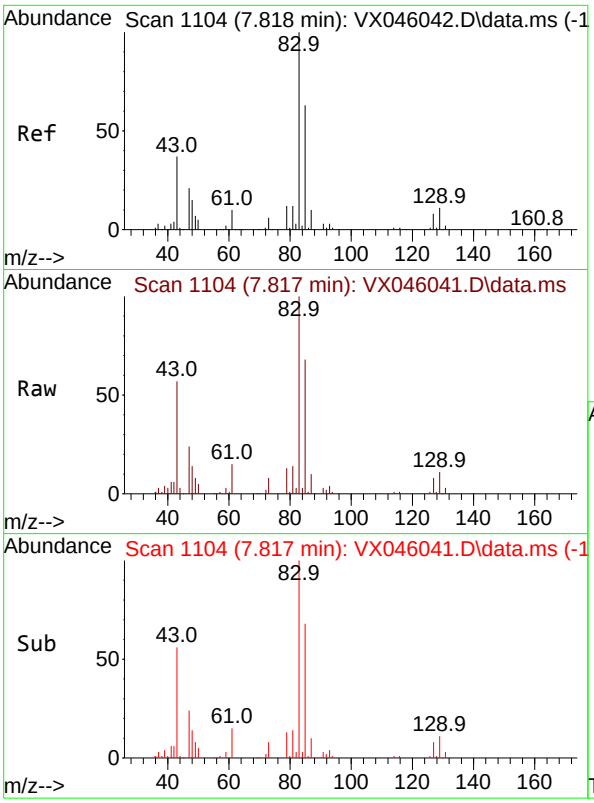


#46
Dibromomethane
Concen: 14.439 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. 0.006 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 93 Resp: 16781

Ion	Ratio	Lower	Upper
93	100		
95	81.5	65.6	98.4
174	83.1	68.2	102.2



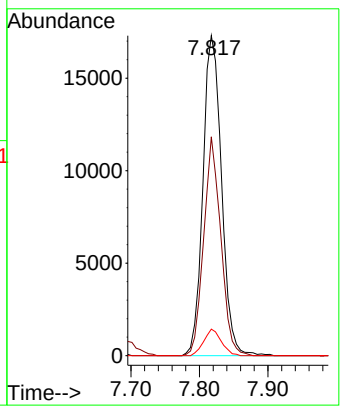


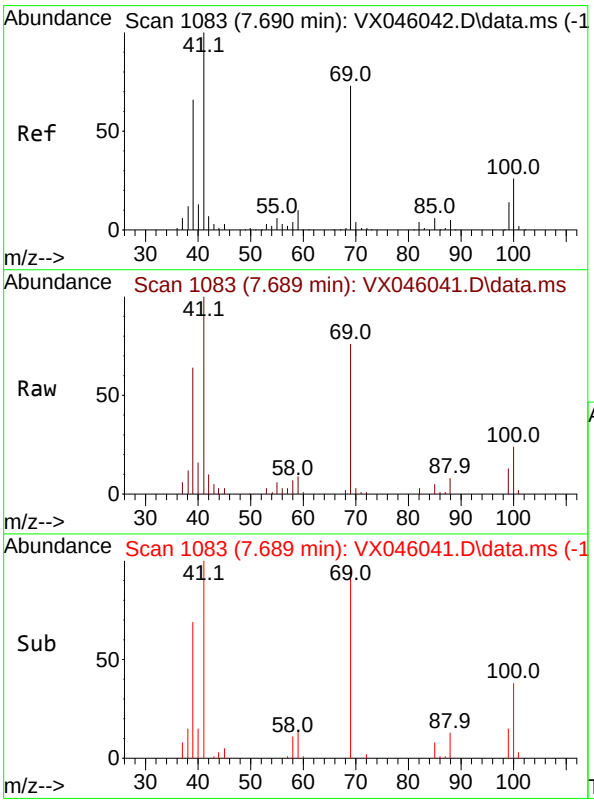
#47
Bromodichloromethane
Concen: 14.545 ug/l
RT: 7.817 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 83 Resp: 32762

Ion	Ratio	Lower	Upper
83	100		
85	68.4	50.5	75.7
127	8.3	6.5	9.7

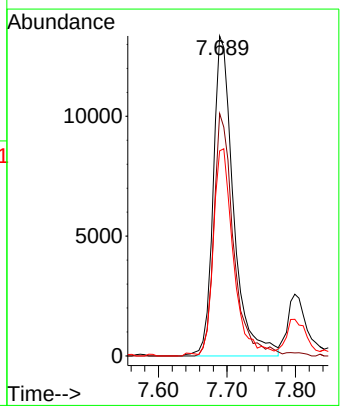


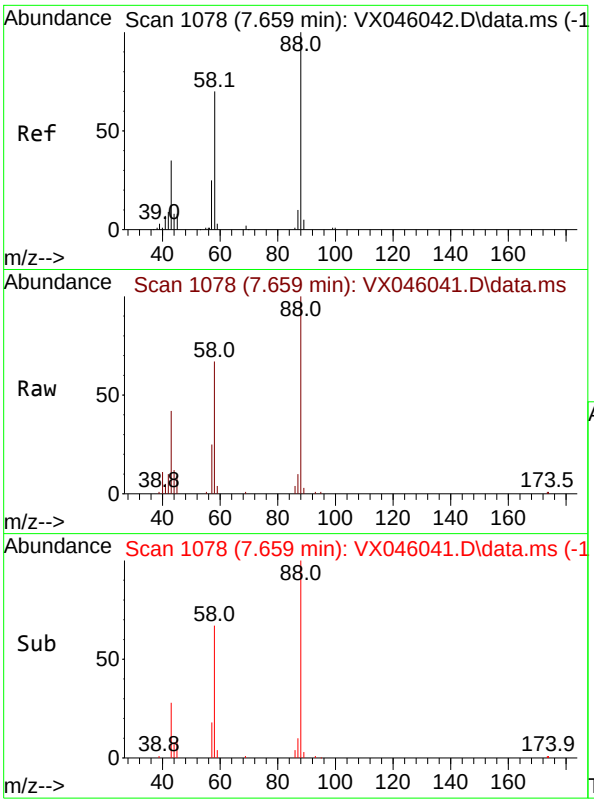


#48
Methyl methacrylate
Concen: 14.521 ug/l
RT: 7.689 min Scan# 1083
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 41 Resp: 27374

Ion	Ratio	Lower	Upper
41	100		
69	73.5	58.5	87.7
39	64.9	51.7	77.5



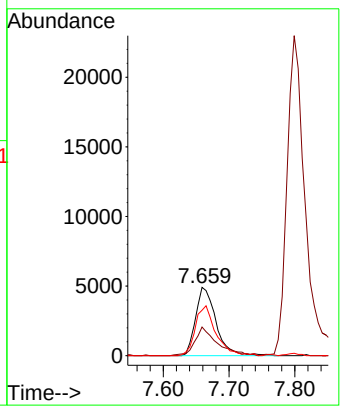


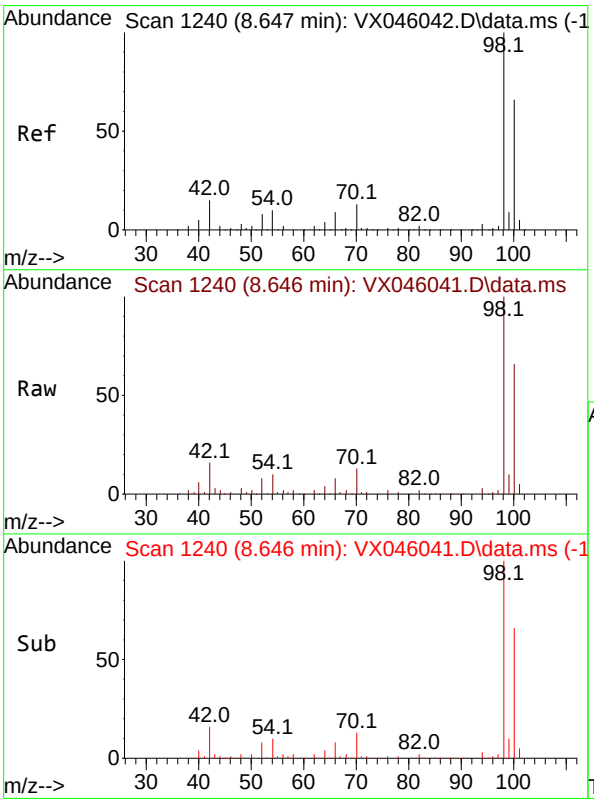
#49
1,4-Dioxane
Concen: 282.442 ug/l
RT: 7.659 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 88 Resp: 10585

Ion	Ratio	Lower	Upper
88	100		
43	45.5	33.4	50.2
58	73.6	58.6	88.0

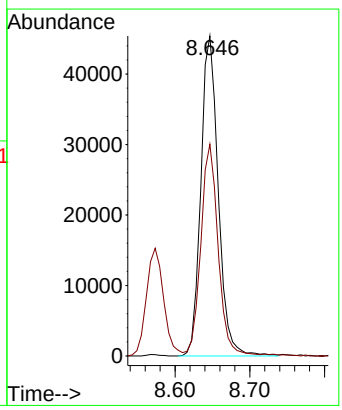


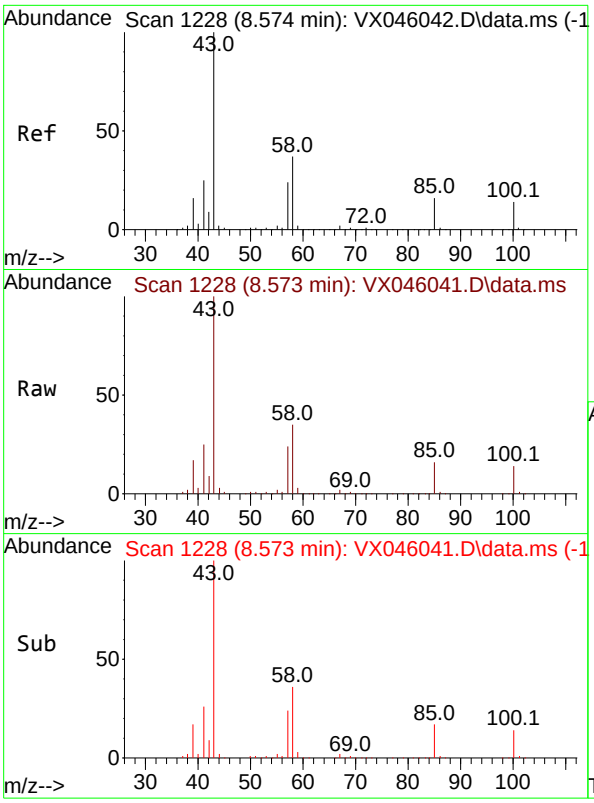


#50
Toluene-d8
Concen: 13.200 ug/l
RT: 8.646 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 98 Resp: 73333

Ion	Ratio	Lower	Upper
98	100		
100	64.8	53.5	80.3



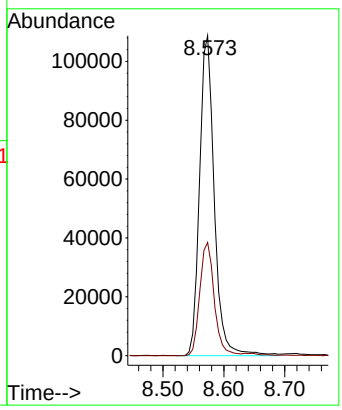


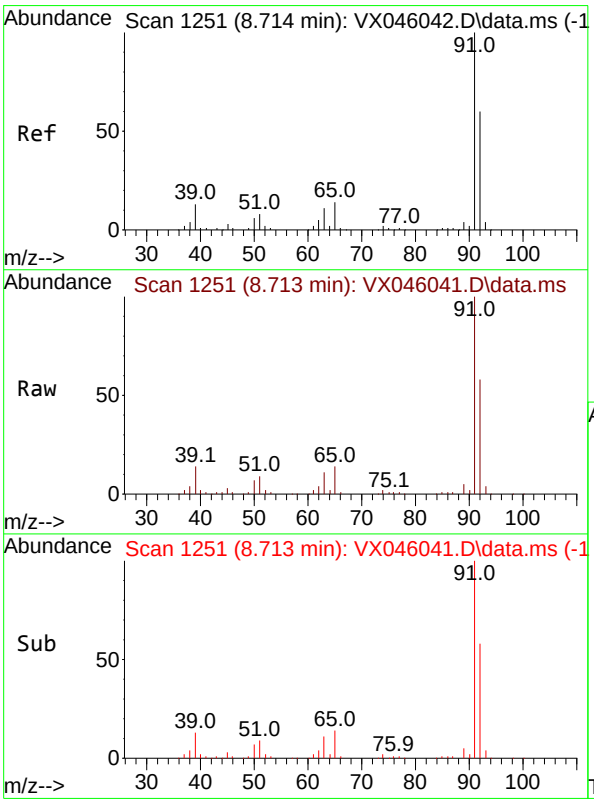
#51
4-Methyl-2-Pentanone
Concen: 75.775 ug/l
RT: 8.573 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 182455

Ion	Ratio	Lower	Upper
43	100		
58	34.8	28.9	43.3

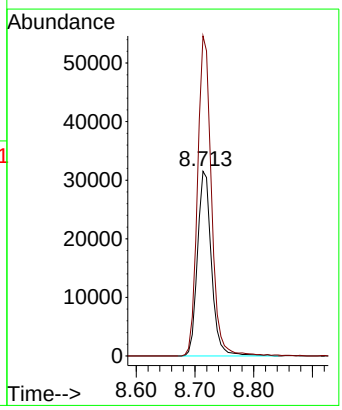


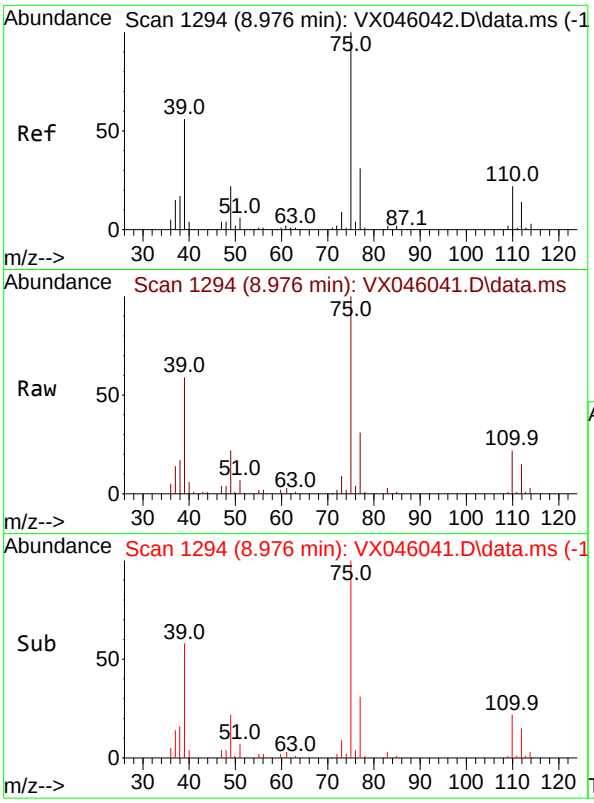


#52
Toluene
Concen: 14.788 ug/l
RT: 8.713 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 92 Resp: 52030

Ion	Ratio	Lower	Upper
92	100		
91	172.2	136.6	205.0



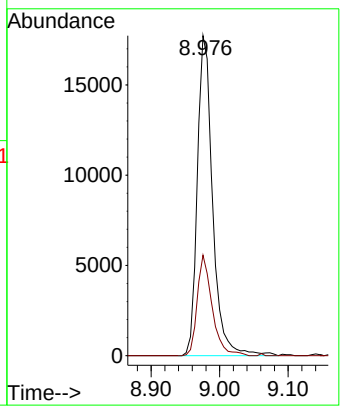


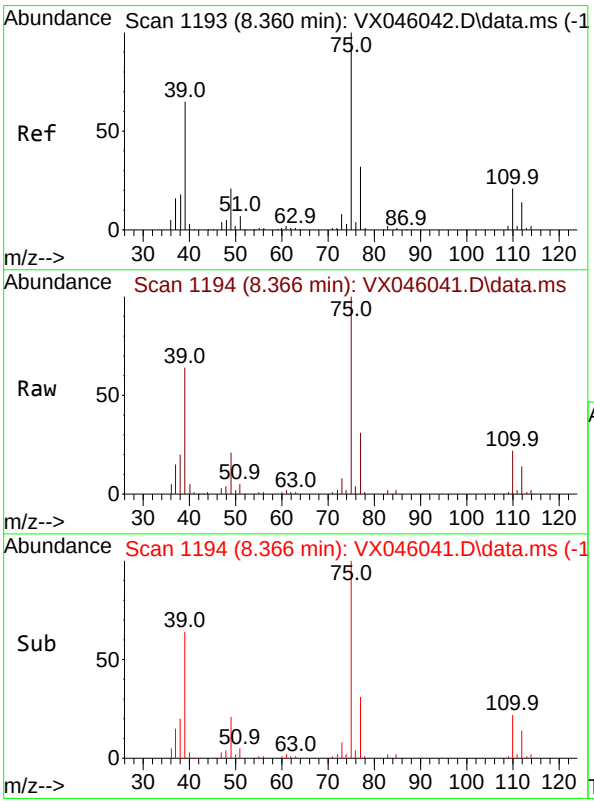
#53
t-1,3-Dichloropropene
Concen: 14.566 ug/l
RT: 8.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 75 Resp: 27549

Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.0	37.6

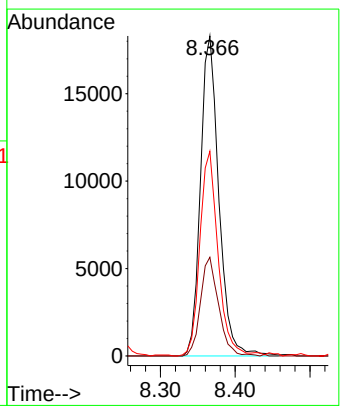


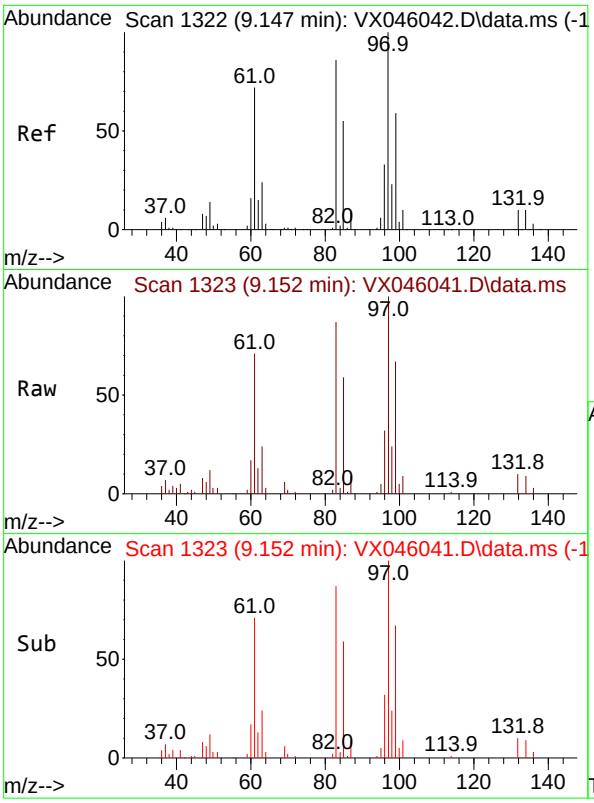


#54
cis-1,3-Dichloropropene
Concen: 14.154 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.006 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 75 Resp: 31226

Ion	Ratio	Lower	Upper
75	100		
77	30.8	25.4	38.0
39	64.0	52.2	78.4



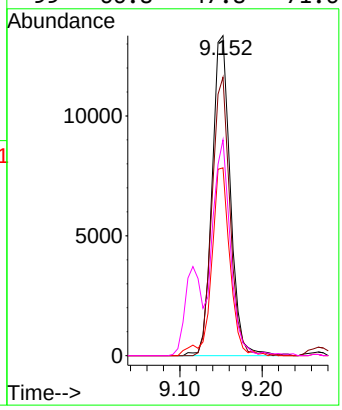


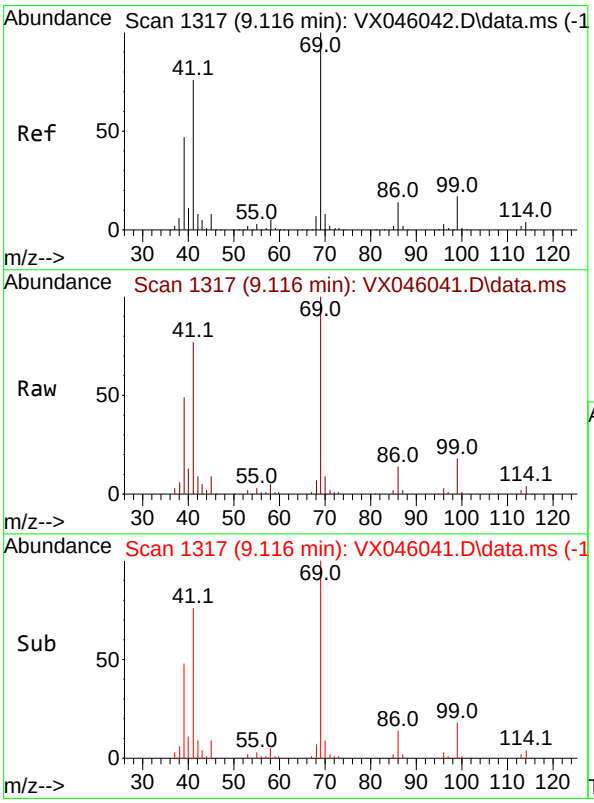
#55
1,1,2-Trichloroethane
Concen: 14.442 ug/l
RT: 9.152 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 97 Resp: 20536

Ion	Ratio	Lower	Upper
97	100		
83	87.0	69.0	103.6
85	58.7	44.3	66.5
99	66.8	47.8	71.6

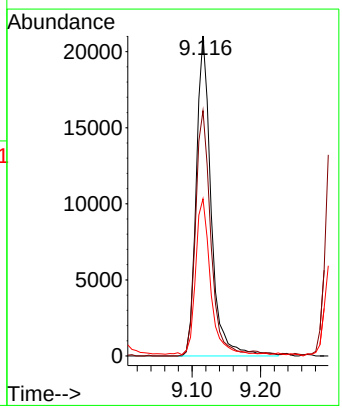


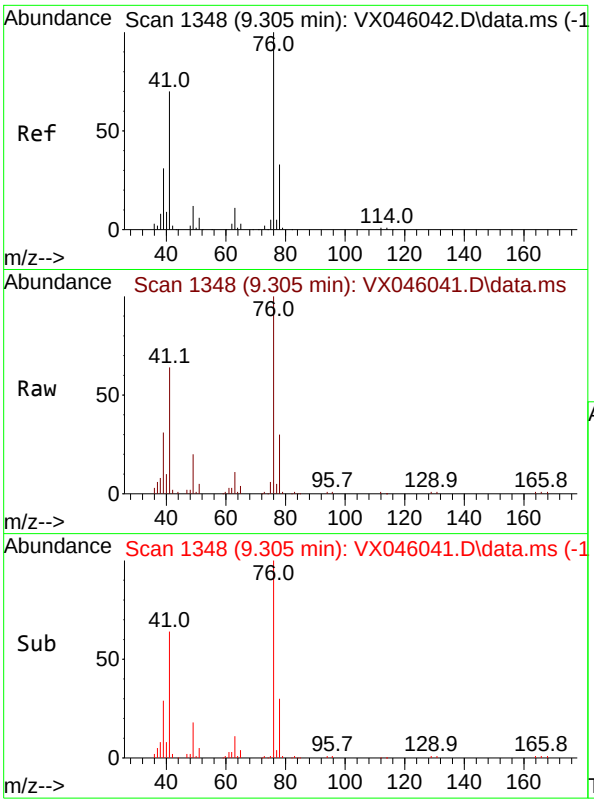


#56
Ethyl methacrylate
Concen: 14.425 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 69 Resp: 31787

Ion	Ratio	Lower	Upper
69	100		
41	78.2	60.8	91.2
39	49.3	39.0	58.6



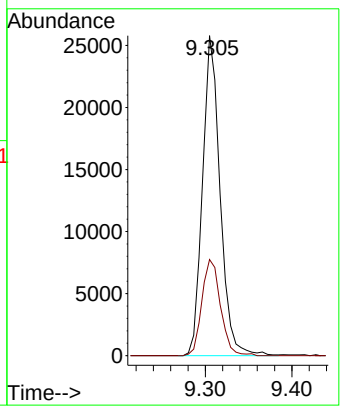


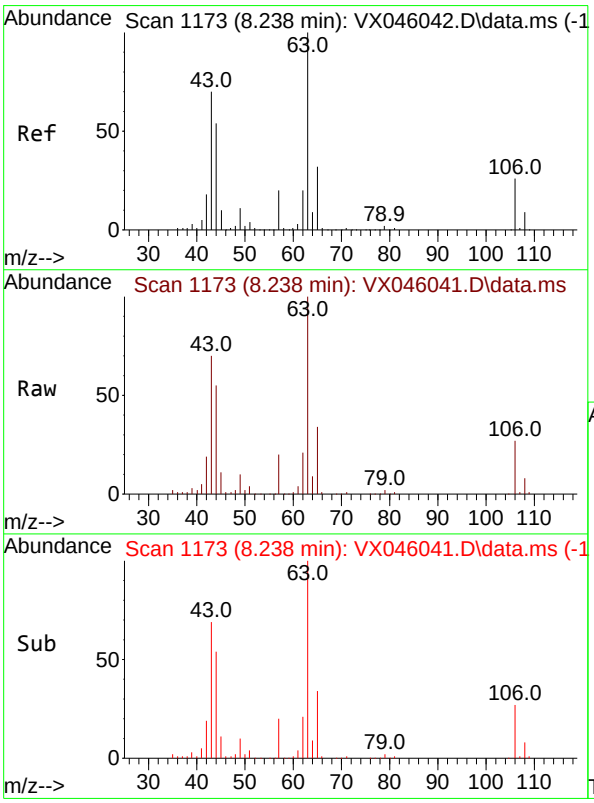
#57
1,3-Dichloropropane
Concen: 14.417 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 76 Resp: 36341

Ion	Ratio	Lower	Upper
76	100		
78	31.8	26.3	39.5

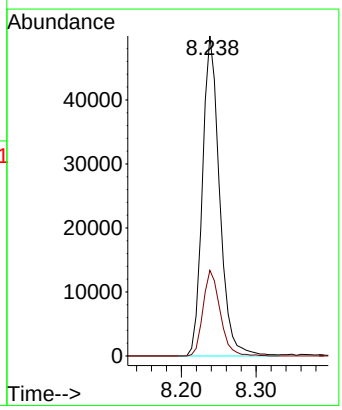


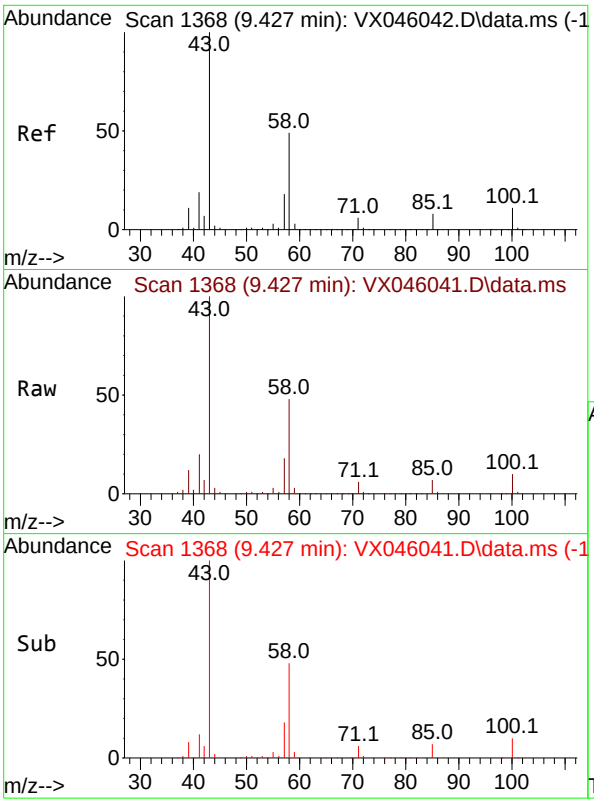


#58
2-Chloroethyl Vinyl ether
Concen: 80.312 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 63 Resp: 79531

Ion	Ratio	Lower	Upper
63	100		
106	26.7	21.5	32.3



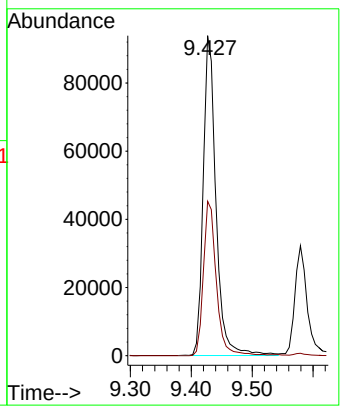


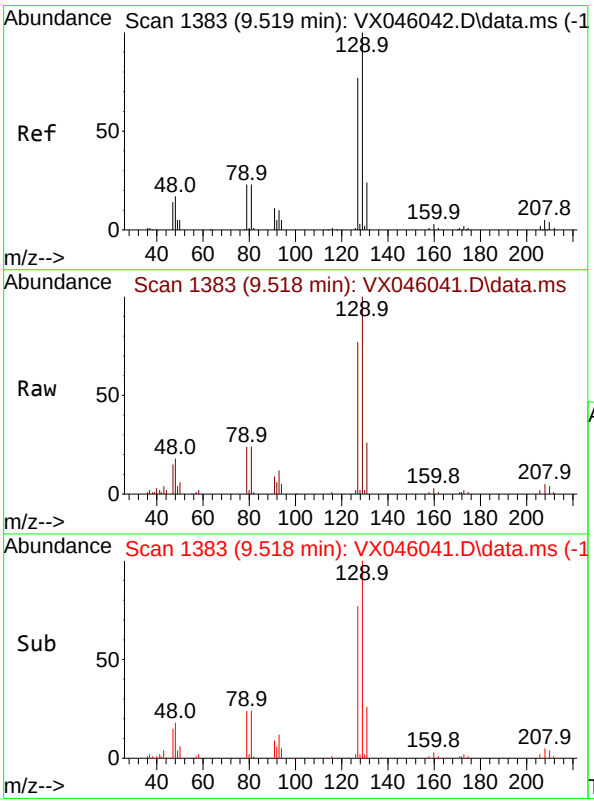
#59
2-Hexanone
Concen: 74.997 ug/l
RT: 9.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 137054

Ion	Ratio	Lower	Upper
43	100		
58	48.7	24.9	74.6

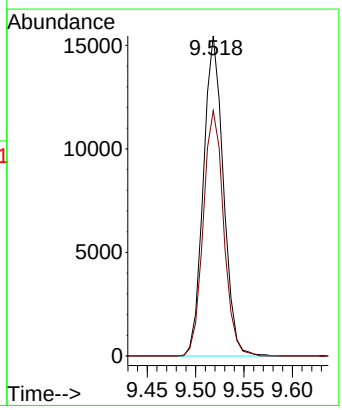


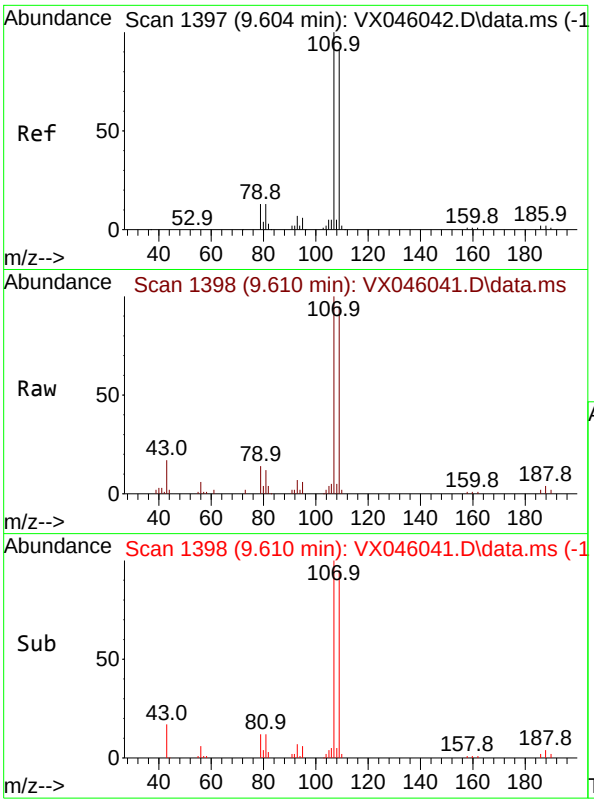


#60
Dibromochloromethane
Concen: 14.387 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion:129 Resp: 22267

Ion	Ratio	Lower	Upper
129	100		
127	78.0	39.3	117.8



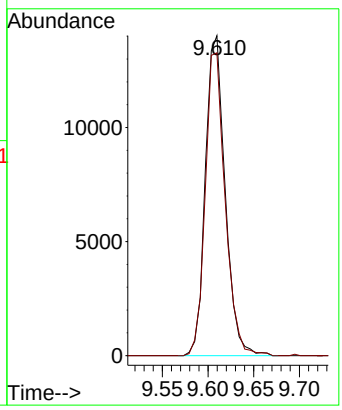


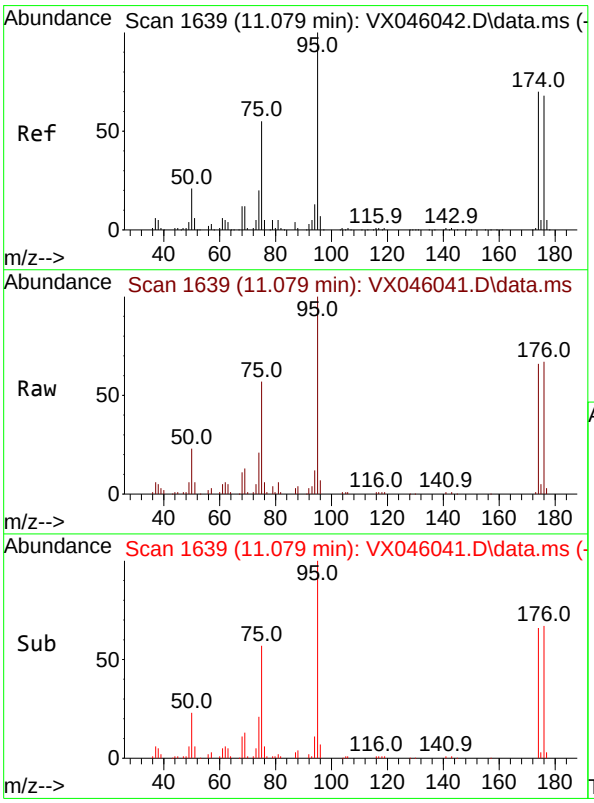
#61
1,2-Dibromoethane
Concen: 14.458 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:107 Resp: 21113

Ion	Ratio	Lower	Upper
107	100		
109	95.3	73.3	109.9

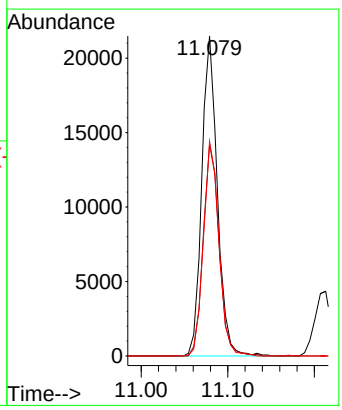


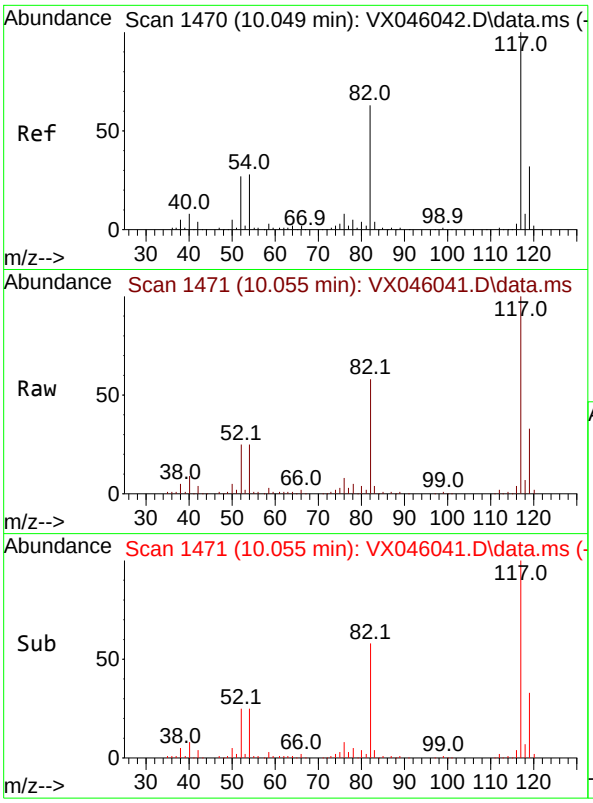


#62
4-Bromofluorobenzene
Concen: 13.236 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 95 Resp: 26760

Ion	Ratio	Lower	Upper
95	100		
174	67.4	0.0	135.8
176	67.0	0.0	131.4



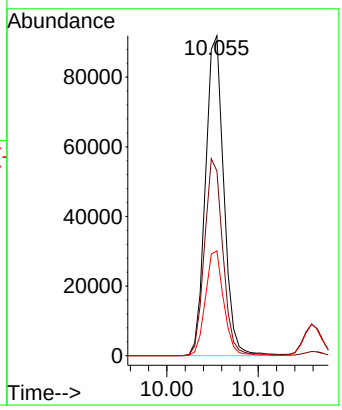


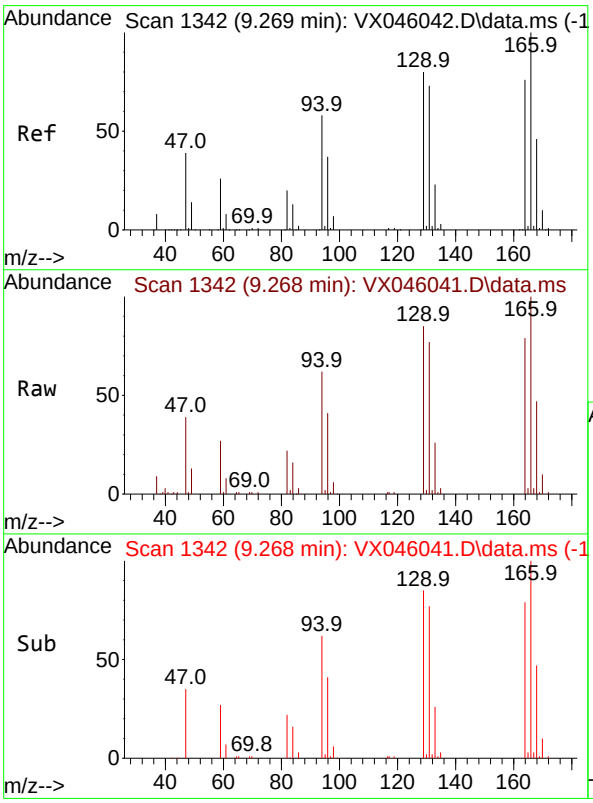
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:117 Resp: 127829

Ion	Ratio	Lower	Upper
117	100		
82	57.7	50.6	76.0
119	32.7	25.8	38.6

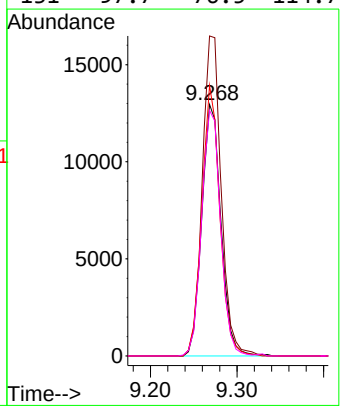


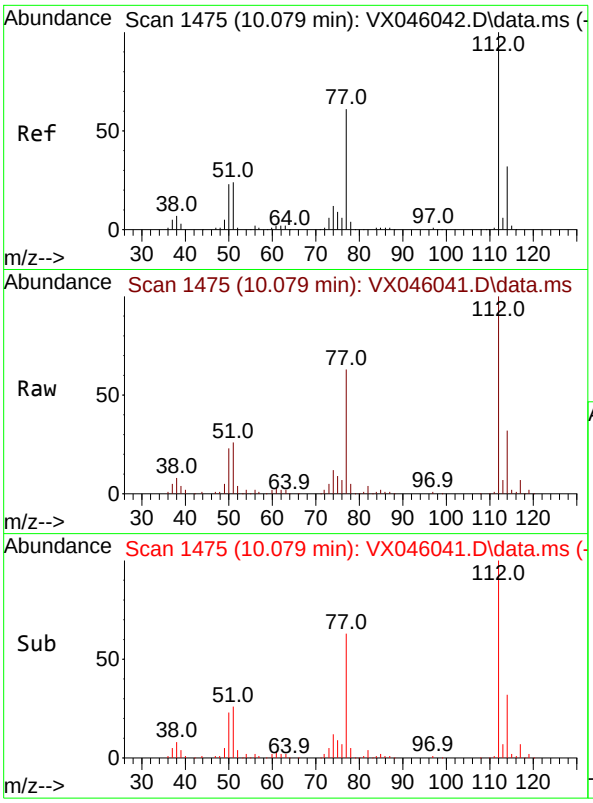


#64
Tetrachloroethene
Concen: 15.263 ug/l
RT: 9.268 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion:164 Resp: 19924

Ion	Ratio	Lower	Upper
164	100		
166	127.2	105.0	157.6
129	107.6	83.5	125.3
131	97.7	76.5	114.7



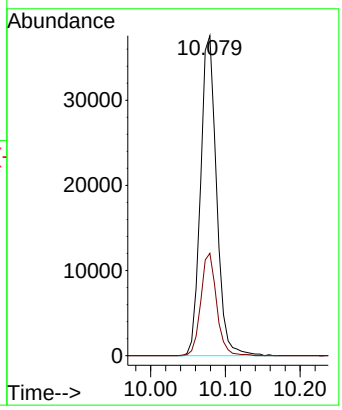


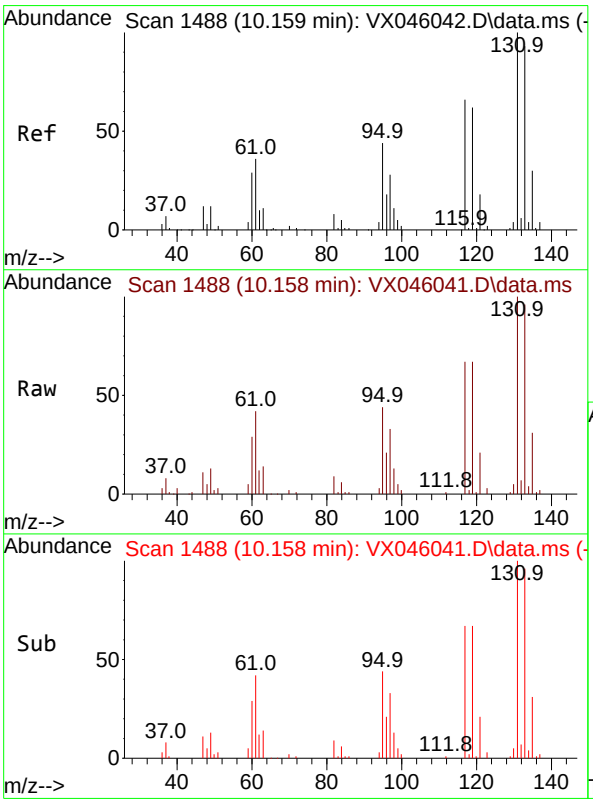
#65
Chlorobenzene
Concen: 14.202 ug/l
RT: 10.079 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:112 Resp: 55863

Ion	Ratio	Lower	Upper
112	100		
114	32.0	25.4	38.2

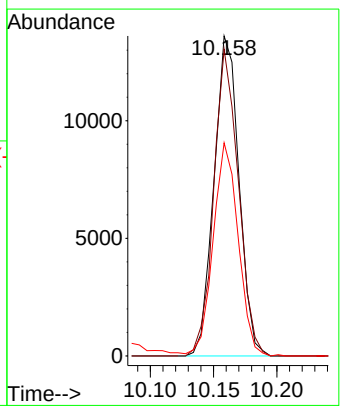


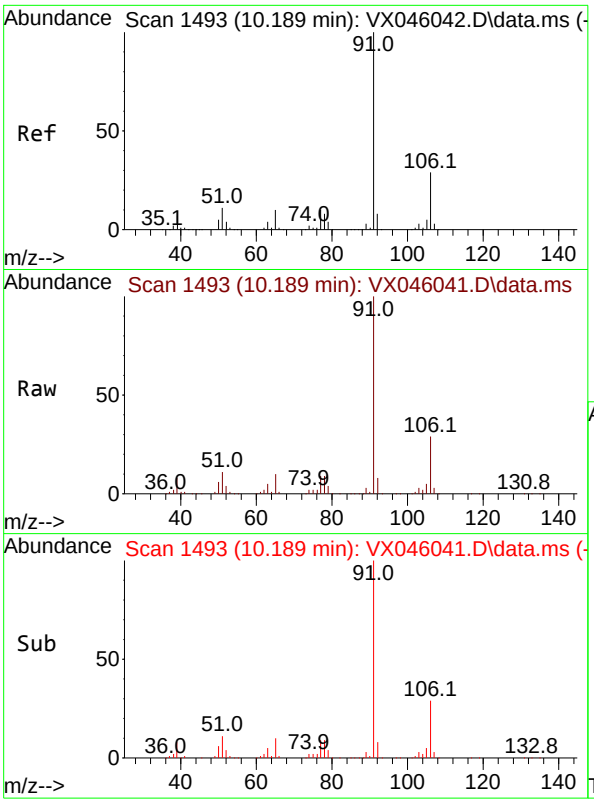


#66
1,1,1,2-Tetrachloroethane
Concen: 14.231 ug/l
RT: 10.158 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion:131 Resp: 18671

Ion	Ratio	Lower	Upper
131	100		
133	94.5	47.3	141.9
119	66.7	31.6	95.0



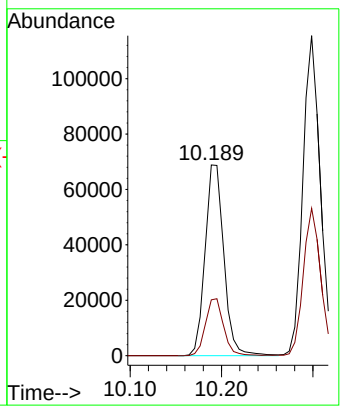


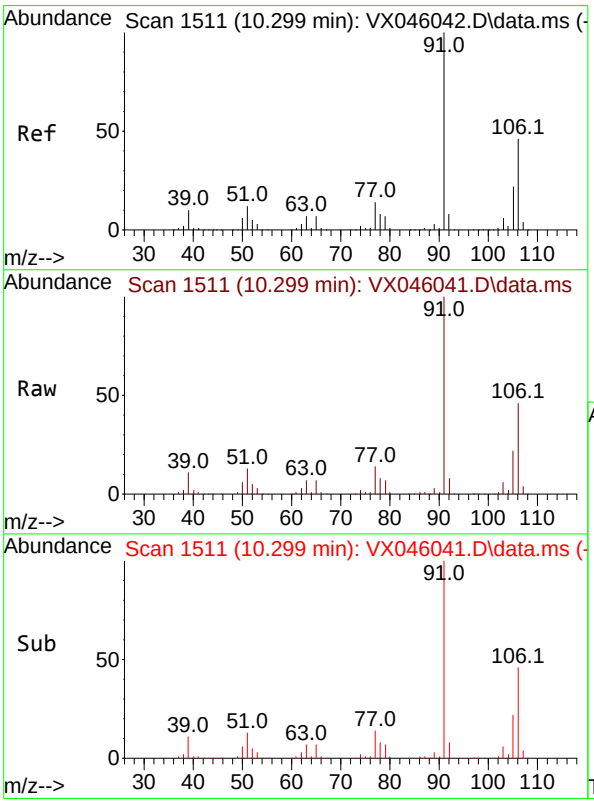
#67
Ethyl Benzene
Concen: 14.631 ug/l
RT: 10.189 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 91 Resp: 98113

Ion	Ratio	Lower	Upper
91	100		
106	29.3	23.4	35.2

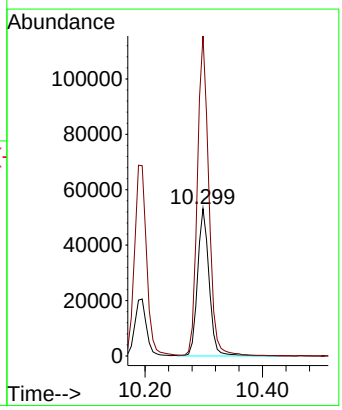


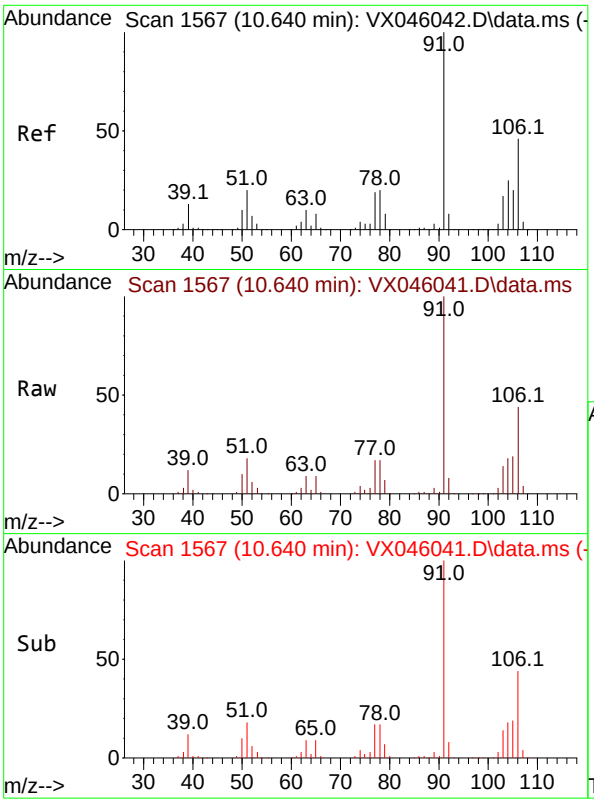


#68
m/p-Xylenes
Concen: 29.806 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion:106 Resp: 72202

Ion	Ratio	Lower	Upper
106	100		
91	216.1	171.2	256.8



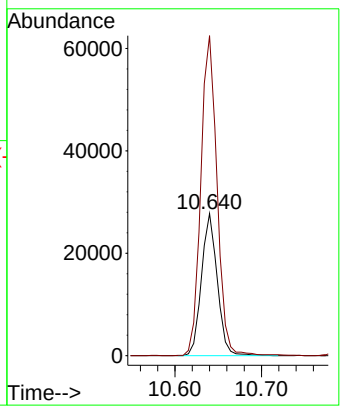


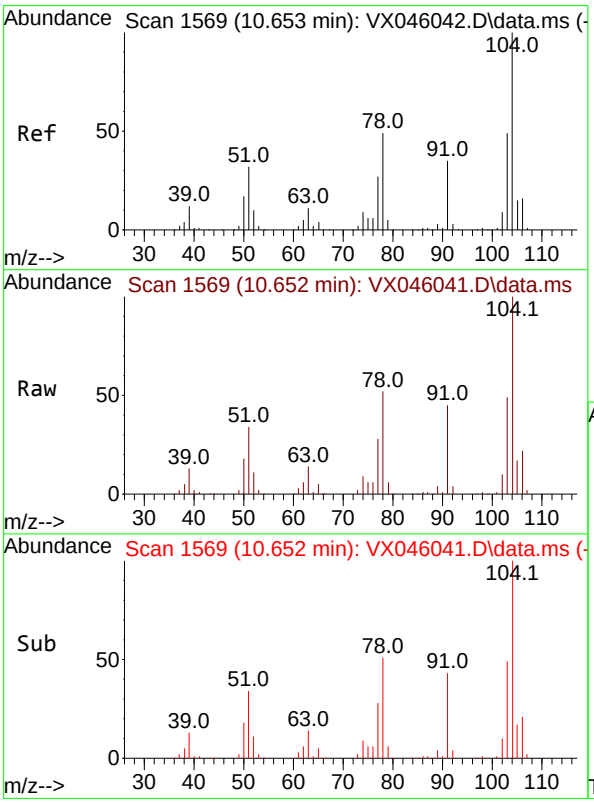
#69
o-Xylene
Concen: 14.408 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:106 Resp: 35178

Ion	Ratio	Lower	Upper
106	100		
91	231.7	112.7	338.1

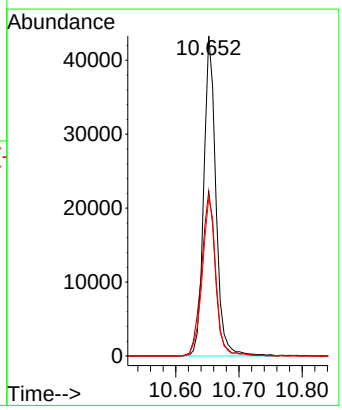


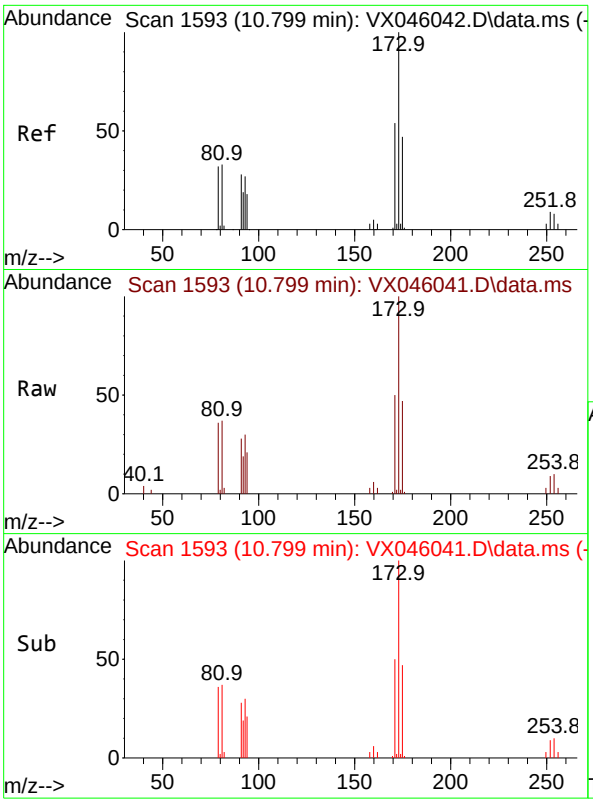


#70
Styrene
Concen: 14.853 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion:104 Resp: 58034

Ion	Ratio	Lower	Upper
104	100		
78	58.7	45.7	68.5
103	55.6	43.7	65.5



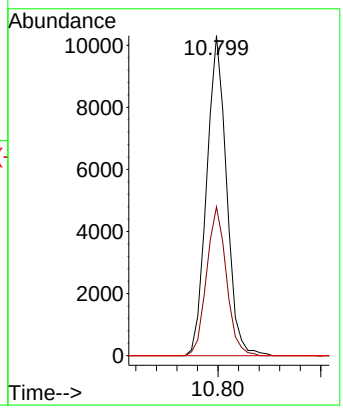


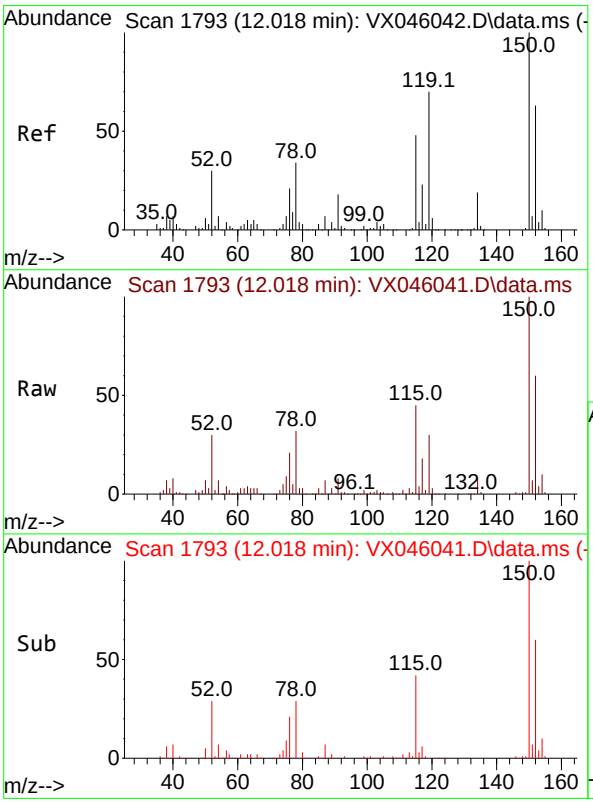
#71
Bromoform
Concen: 14.030 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:173 Resp: 13825

Ion	Ratio	Lower	Upper
173	100		
175	46.4	23.4	70.0
254	0.0	0.0	0.0

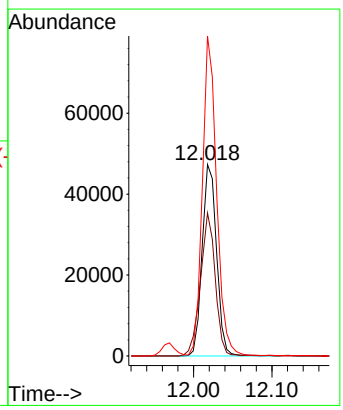


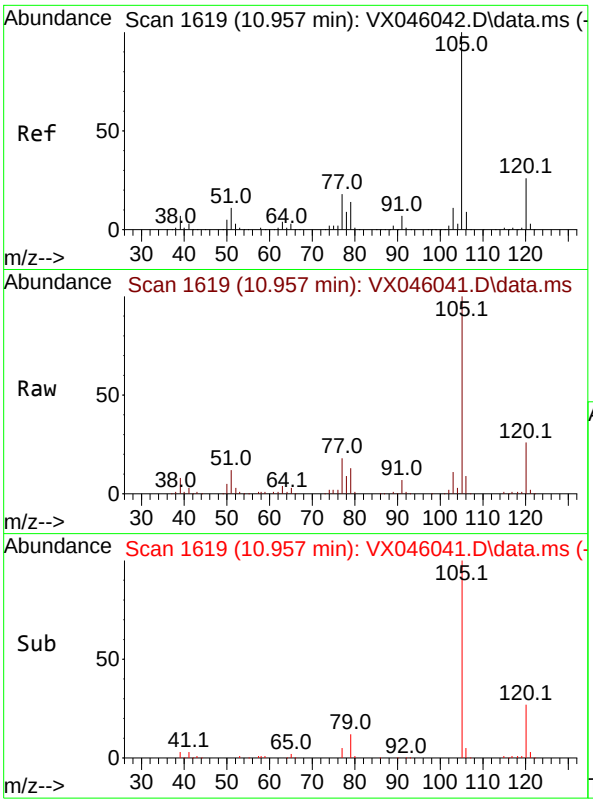


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion:152 Resp: 60503

Ion	Ratio	Lower	Upper
152	100		
115	76.6	46.9	140.7
150	163.6	0.0	351.0



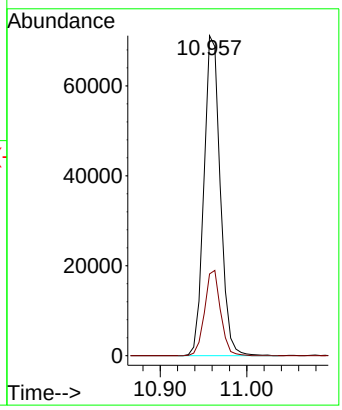


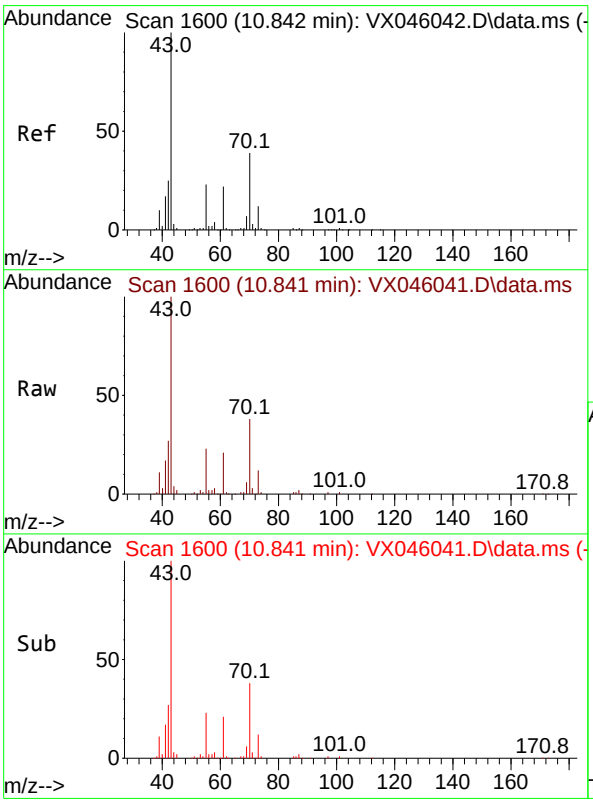
#73
Isopropylbenzene
Concen: 14.096 ug/l
RT: 10.957 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:105 Resp: 93013

Ion	Ratio	Lower	Upper
105	100		
120	26.1	12.8	38.4

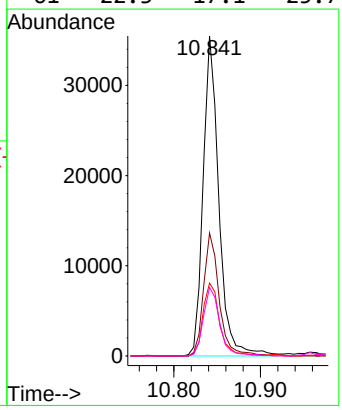


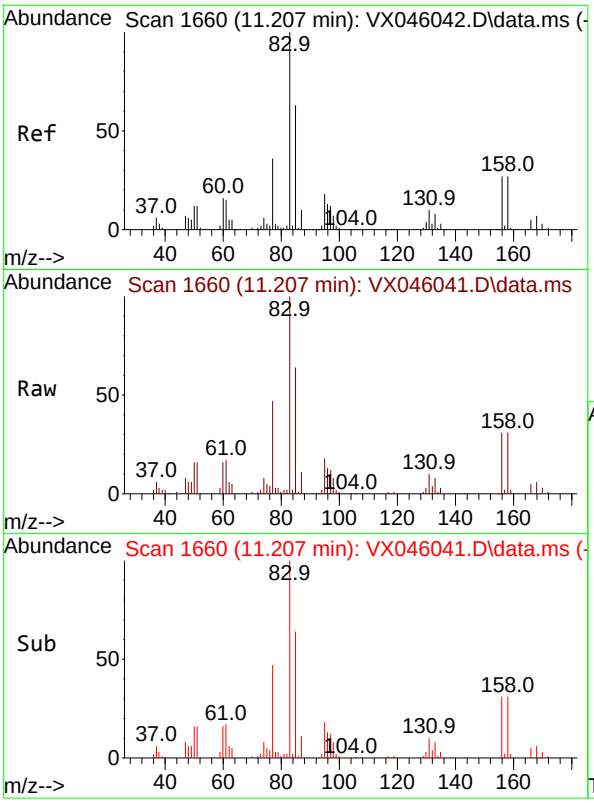


#74
N-amyl acetate
Concen: 13.581 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 43 Resp: 44684

Ion	Ratio	Lower	Upper
43	100		
70	38.5	30.9	46.3
55	24.1	18.7	28.1
61	22.3	17.1	25.7



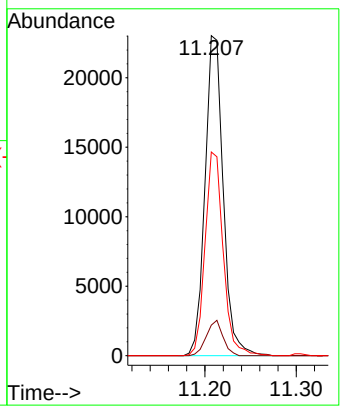


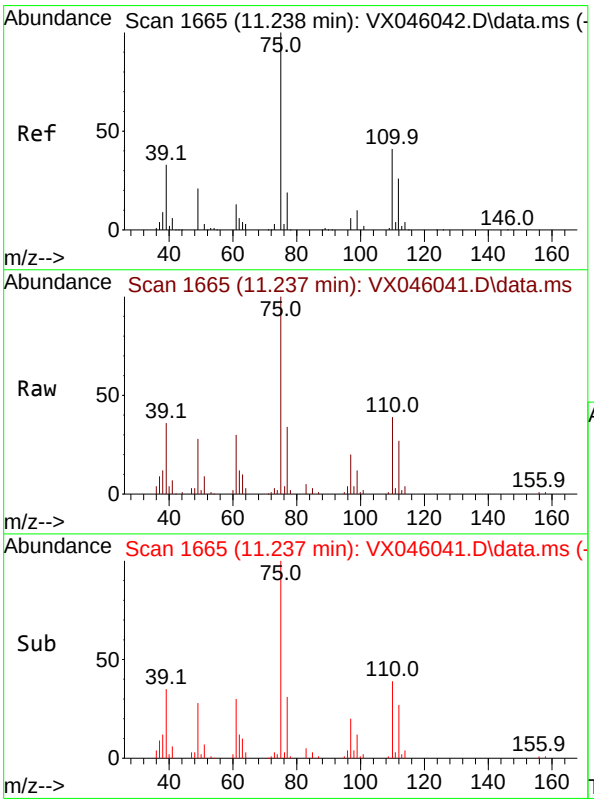
#75
1,1,2,2-Tetrachloroethane
Concen: 13.560 ug/l
RT: 11.207 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 83 Resp: 31830

Ion	Ratio	Lower	Upper
83	100		
131	10.1	5.0	14.9
85	63.3	31.9	95.7

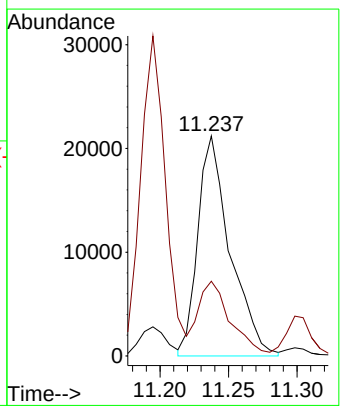


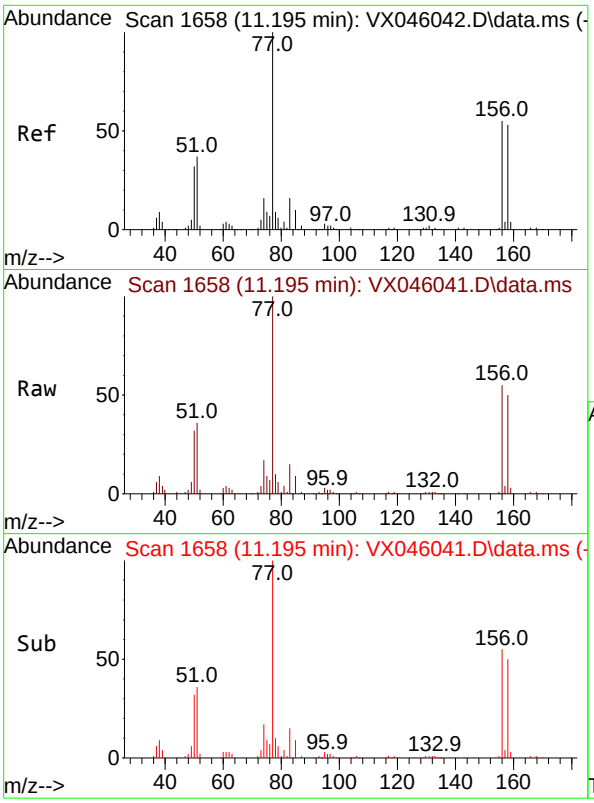


#76
1,2,3-Trichloropropane
Concen: 13.811 ug/l
RT: 11.237 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 75 Resp: 34837

Ion	Ratio	Lower	Upper
75	100		
77	34.4	20.5	61.5



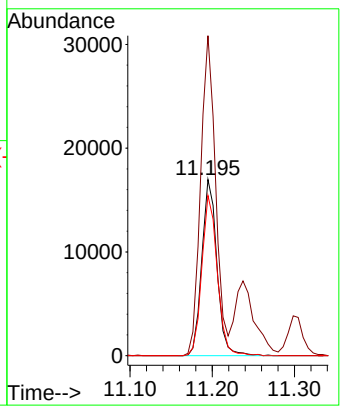


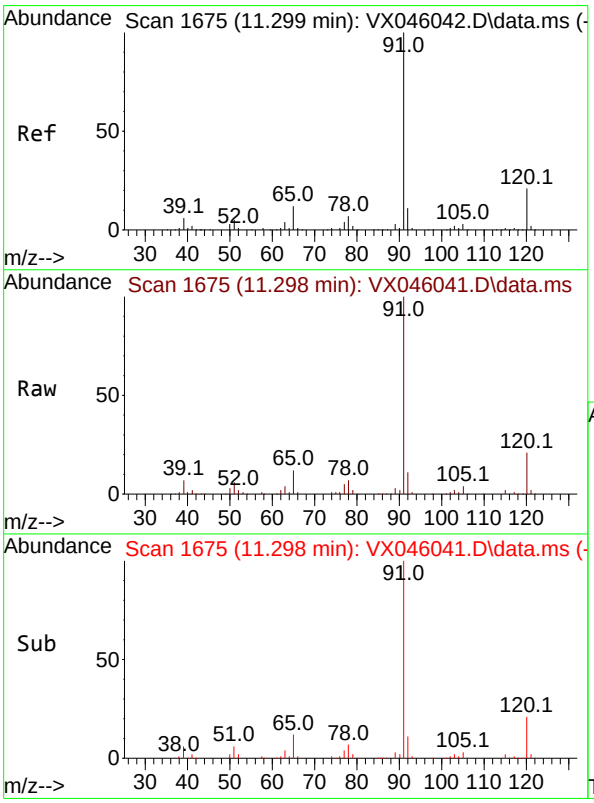
#77
Bromobenzene
Concen: 14.212 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:156 Resp: 21695

Ion	Ratio	Lower	Upper
156	100		
77	179.9	92.8	278.3
158	93.1	48.8	146.3

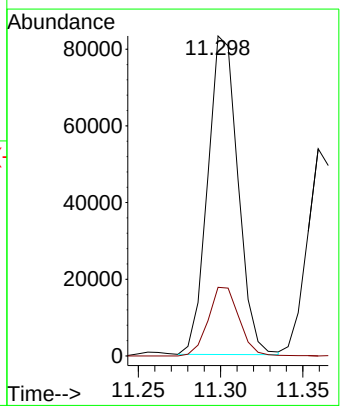


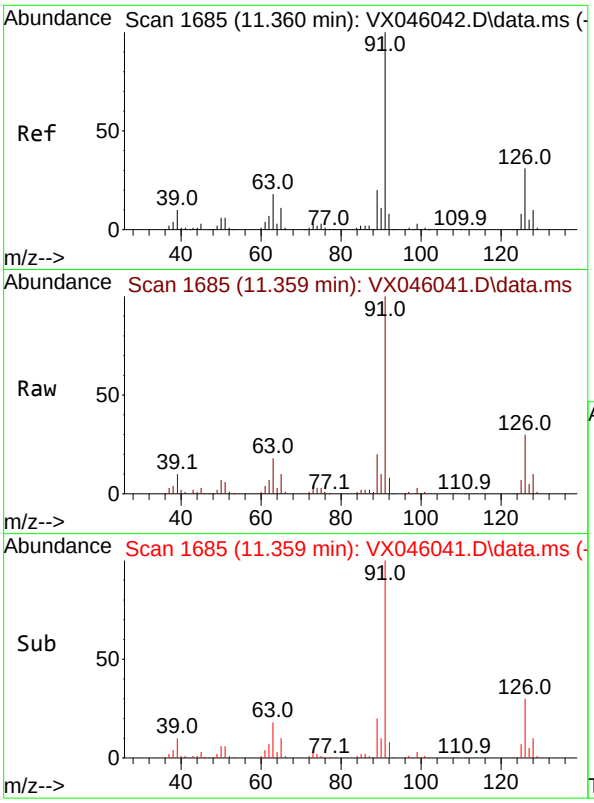


#78
n-propylbenzene
Concen: 14.376 ug/l
RT: 11.298 min Scan# 1675
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 91 Resp: 106337

Ion	Ratio	Lower	Upper
91	100		
120	22.0	10.8	32.4



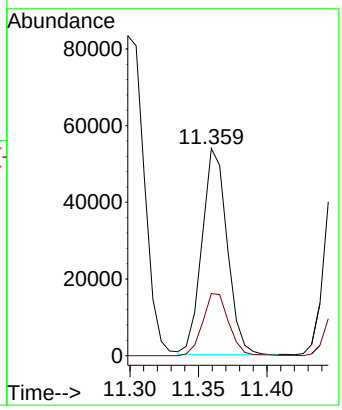


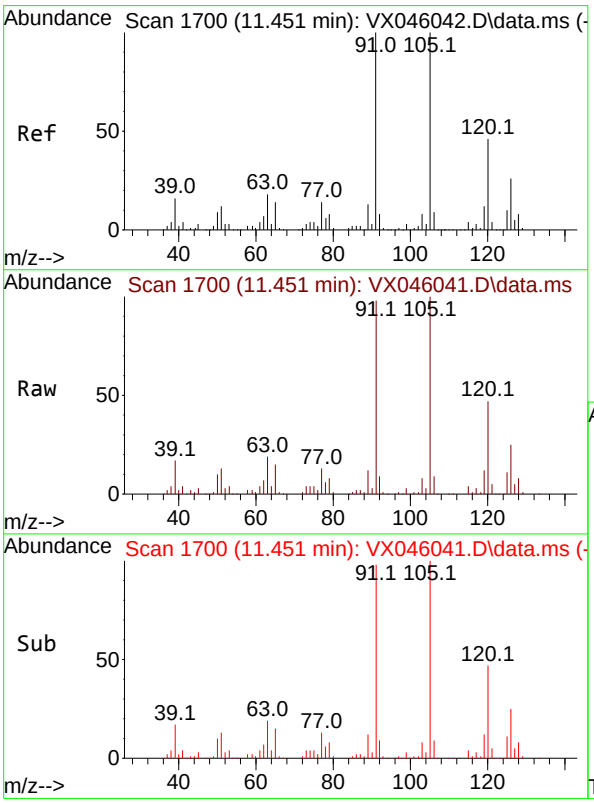
#79
2-Chlorotoluene
Concen: 13.748 ug/l
RT: 11.359 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 91 Resp: 68534

Ion	Ratio	Lower	Upper
91	100		
126	31.4	15.6	46.7

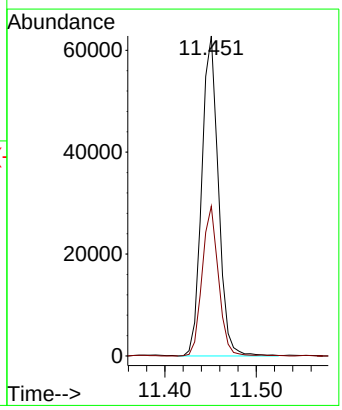


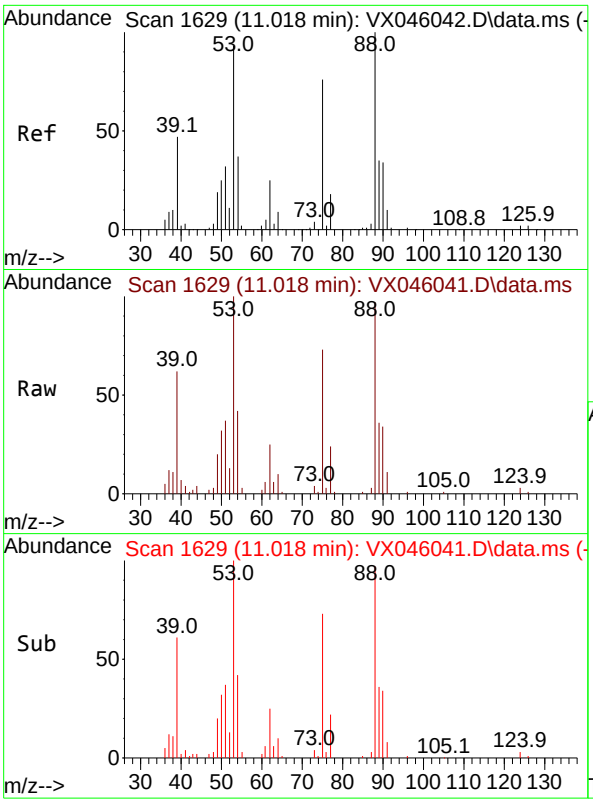


#80
1,3,5-Trimethylbenzene
Concen: 14.468 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion:105 Resp: 79261

Ion	Ratio	Lower	Upper
105	100		
120	45.9	23.1	69.2



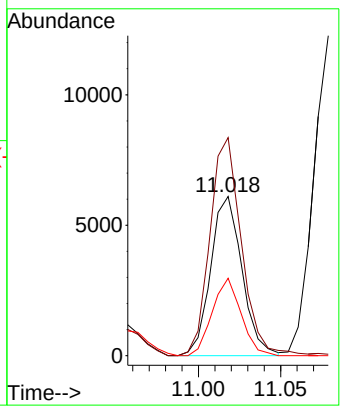


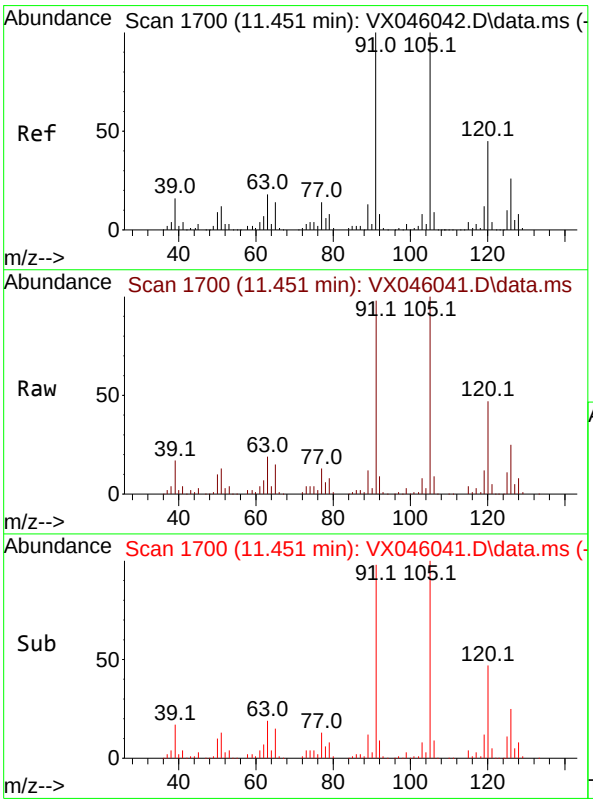
#81
trans-1,4-Dichloro-2-butene
Concen: 13.371 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 75 Resp: 8104

Ion	Ratio	Lower	Upper
75	100		
53	138.3	100.5	150.7
89	44.6	37.0	55.6

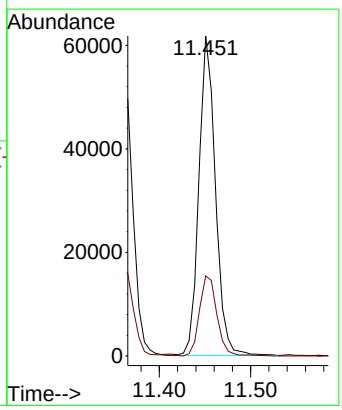


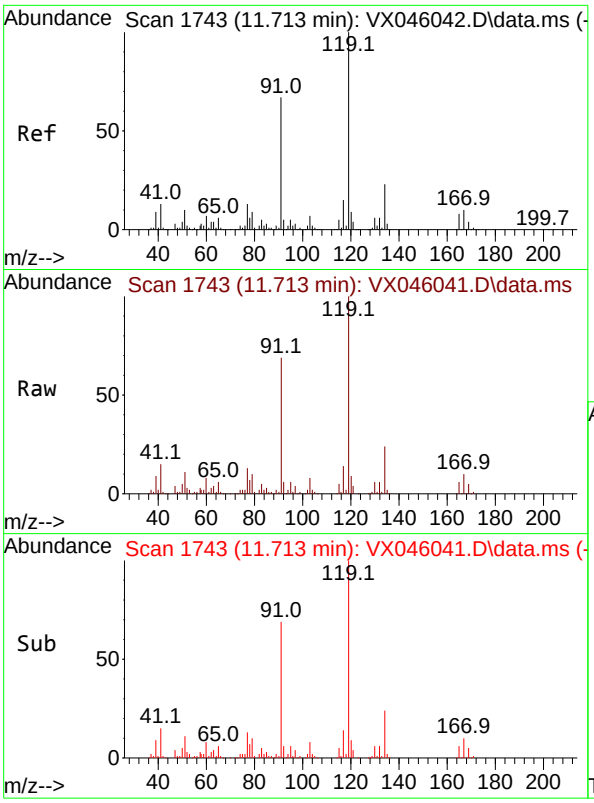


#82
4-Chlorotoluene
Concen: 14.116 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 91 Resp: 77338

Ion	Ratio	Lower	Upper
91	100		
126	26.5	13.3	39.8



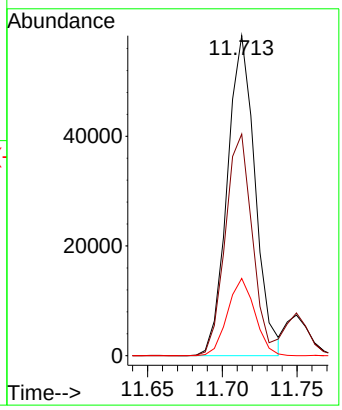


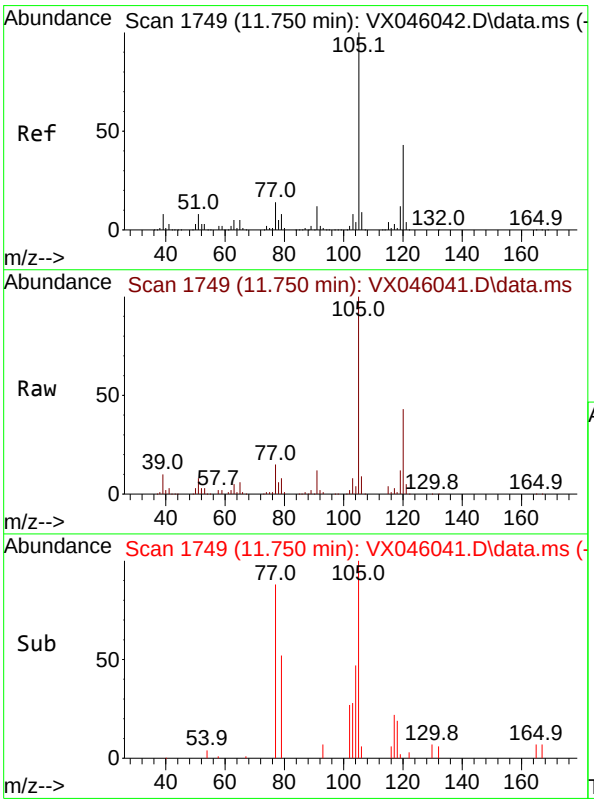
#83
tert-Butylbenzene
Concen: 14.011 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:119 Resp: 75382

Ion	Ratio	Lower	Upper
119	100		
91	66.8	32.9	98.7
134	23.7	11.4	34.1

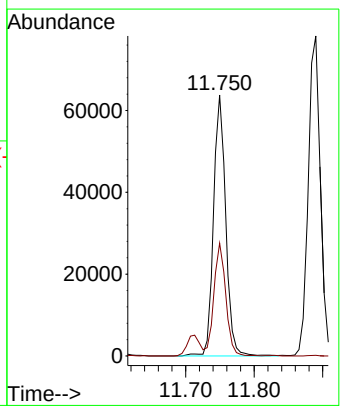


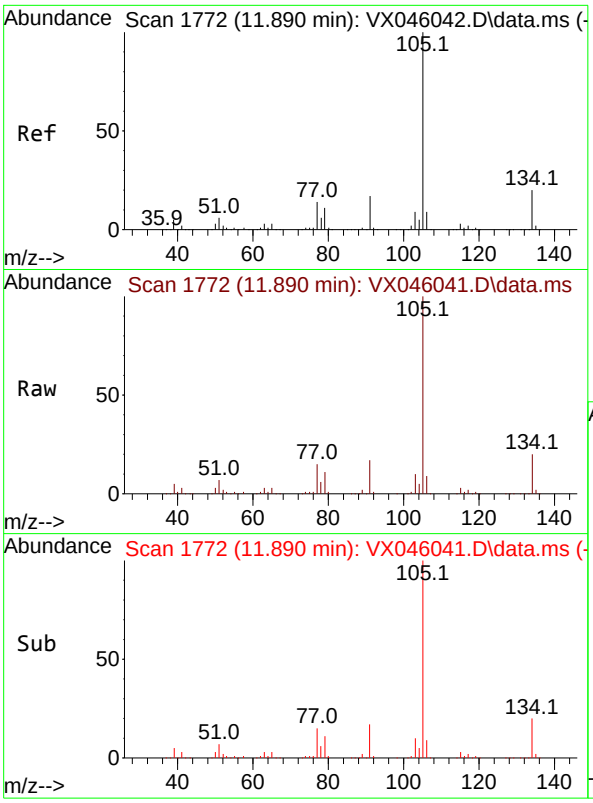


#84
1,2,4-Trimethylbenzene
Concen: 14.480 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion:105 Resp: 79232

Ion	Ratio	Lower	Upper
105	100		
120	42.0	21.2	63.6



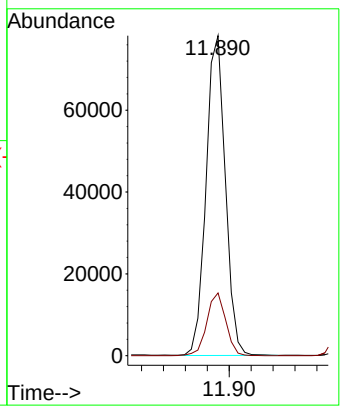


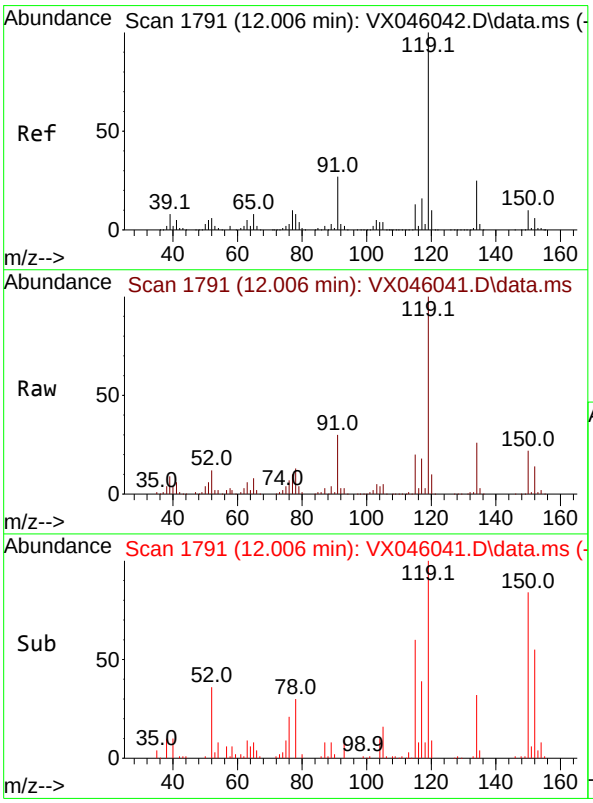
#85
sec-Butylbenzene
Concen: 14.263 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:105 Resp: 95271

Ion	Ratio	Lower	Upper
105	100		
134	19.3	9.7	29.1

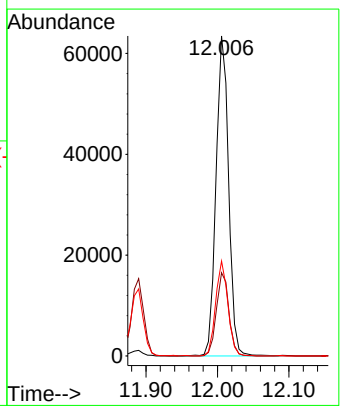


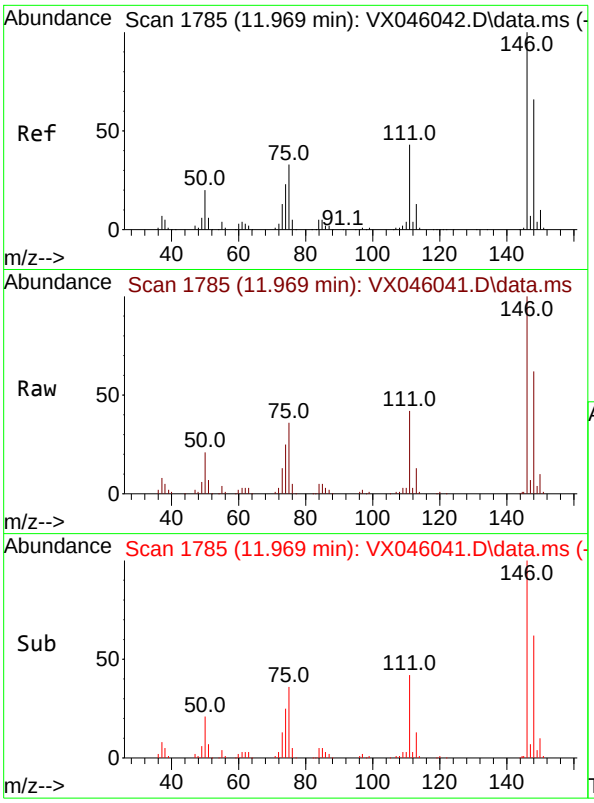


#86
p-Isopropyltoluene
Concen: 14.387 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion:119 Resp: 77599

Ion	Ratio	Lower	Upper
119	100		
134	25.9	12.5	37.5
91	28.8	13.8	41.4



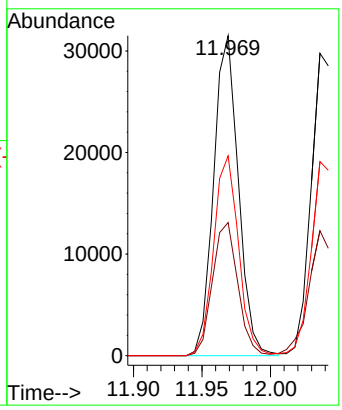


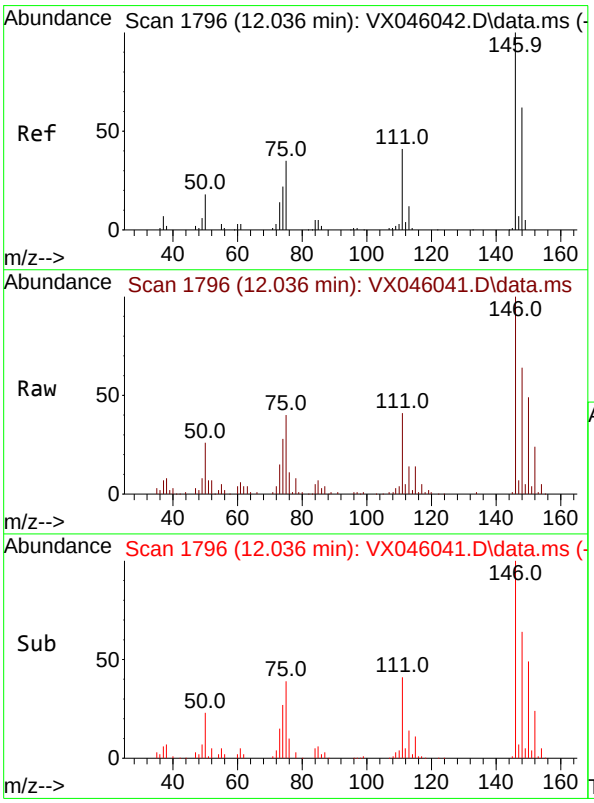
#87
1,3-Dichlorobenzene
Concen: 13.898 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:146 Resp: 39520

Ion	Ratio	Lower	Upper
146	100		
111	42.7	22.1	66.3
148	62.9	32.1	96.5

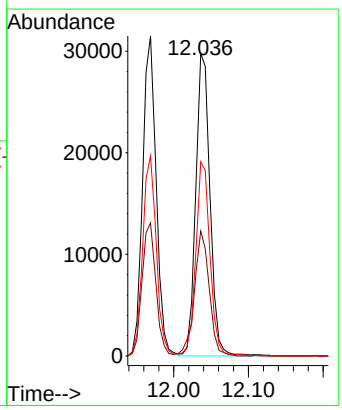


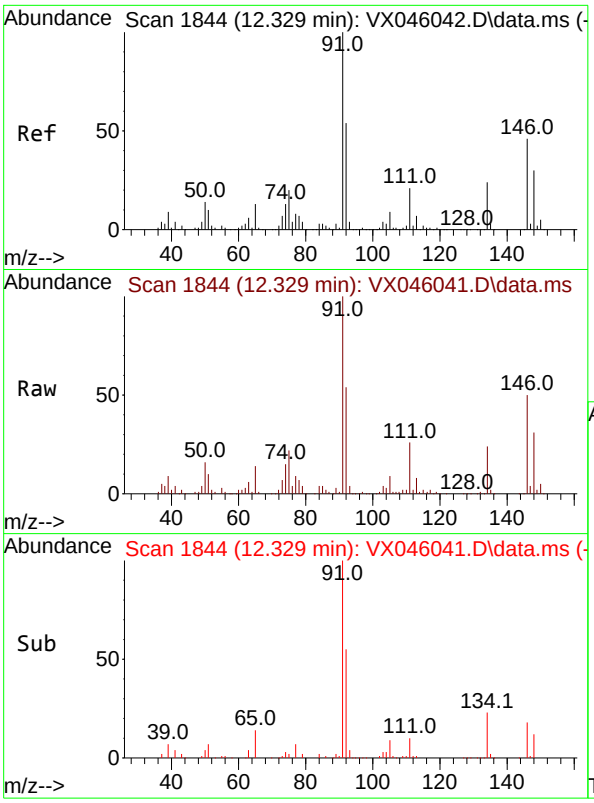


#88
1,4-Dichlorobenzene
Concen: 14.146 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion:146 Resp: 39419

Ion	Ratio	Lower	Upper
146	100		
111	42.8	21.3	63.9
148	64.2	31.9	95.5



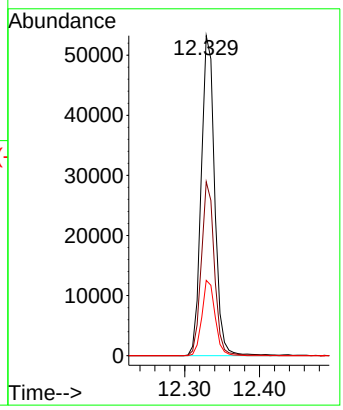


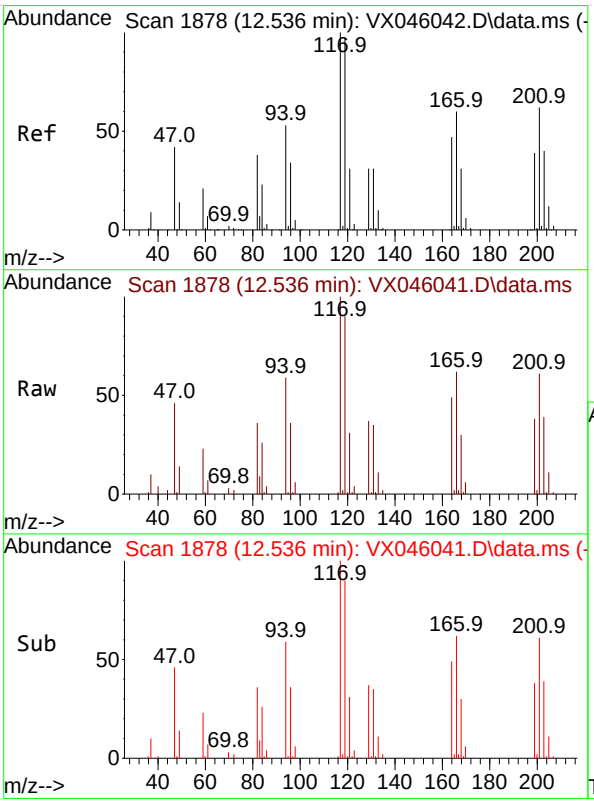
#89
n-Butylbenzene
Concen: 14.184 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 91 Resp: 66506

Ion	Ratio	Lower	Upper
91	100		
92	52.9	26.9	80.7
134	23.1	11.8	35.3

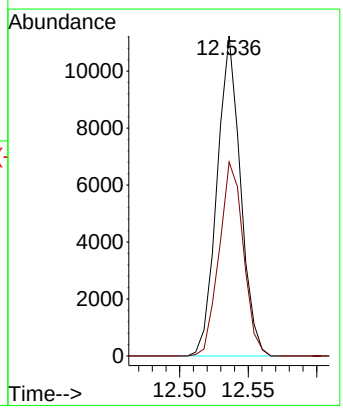


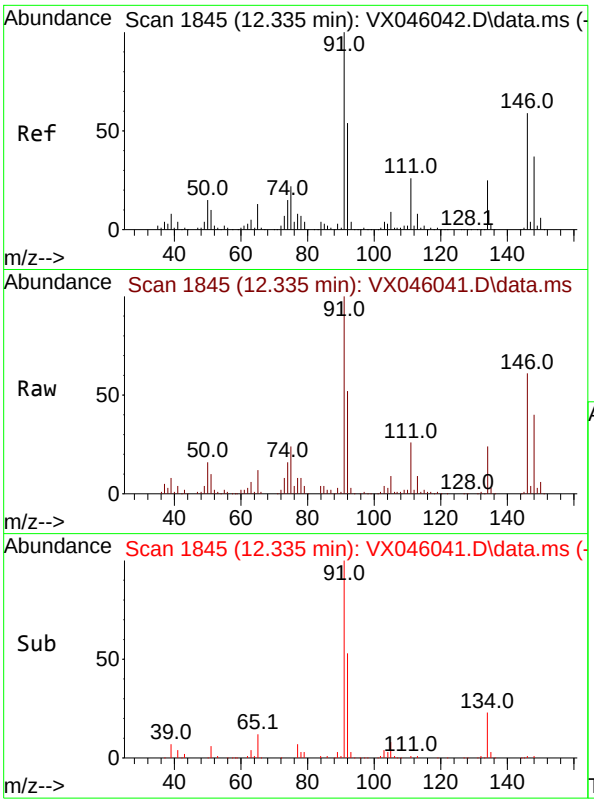


#90
Hexachloroethane
Concen: 13.287 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion:117 Resp: 13332

Ion	Ratio	Lower	Upper
117	100		
201	62.9	31.6	94.7



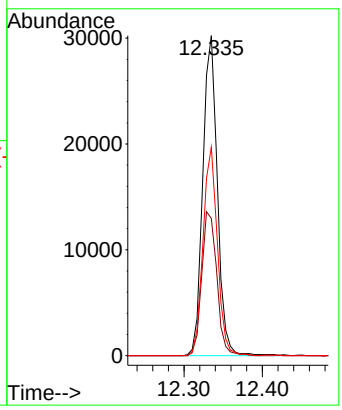


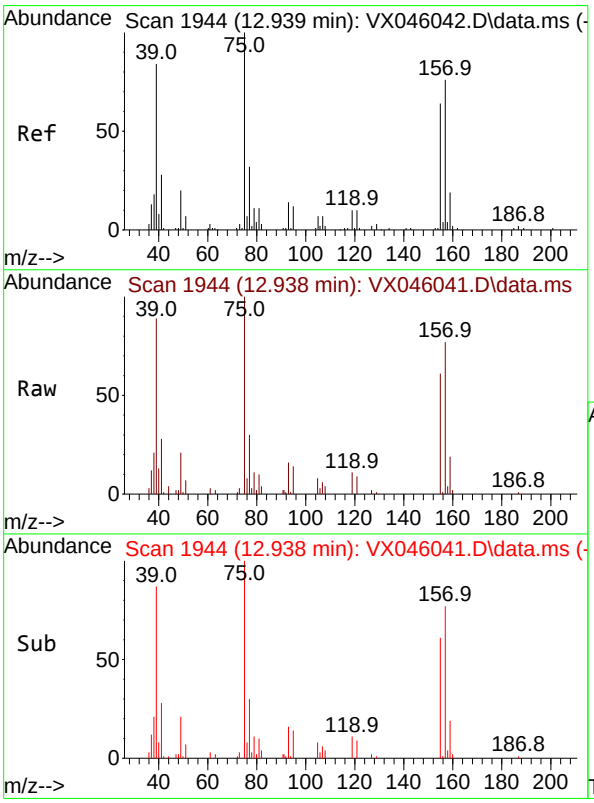
#91
1,2-Dichlorobenzene
Concen: 14.092 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:146 Resp: 39031

Ion	Ratio	Lower	Upper
146	100		
111	46.6	22.4	67.3
148	64.2	31.6	94.8

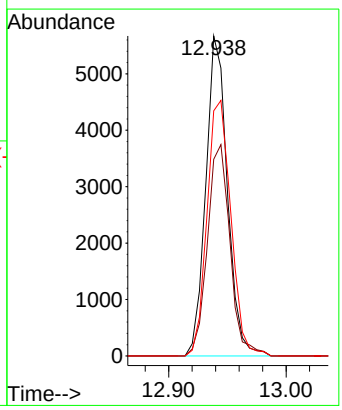


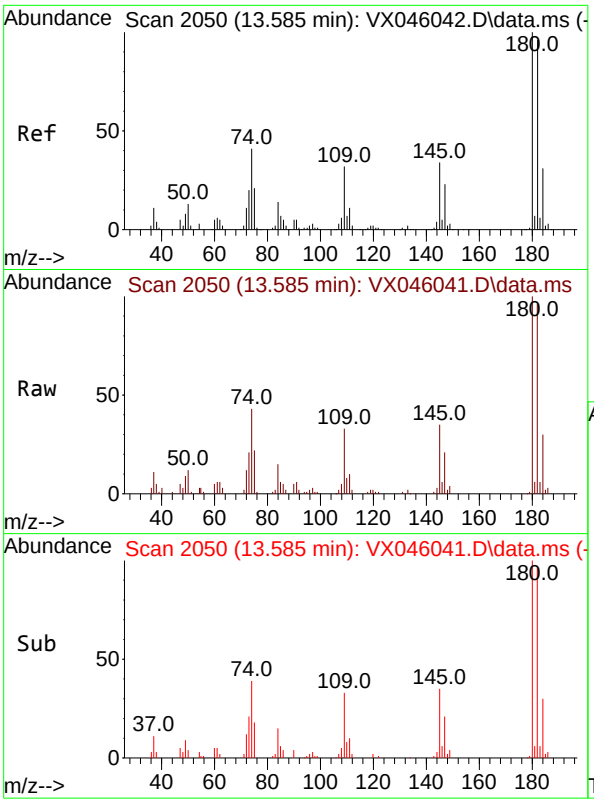


#92
1,2-Dibromo-3-Chloropropane
Concen: 13.535 ug/l
RT: 12.938 min Scan# 1944
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion: 75 Resp: 7232

Ion	Ratio	Lower	Upper
75	100		
155	69.4	34.9	104.8
157	88.4	43.8	131.4



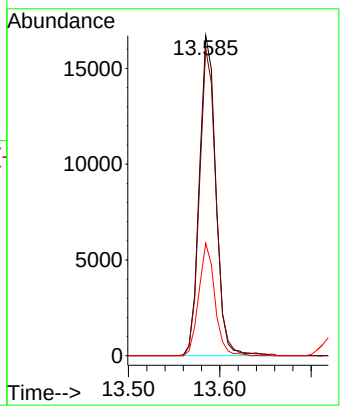


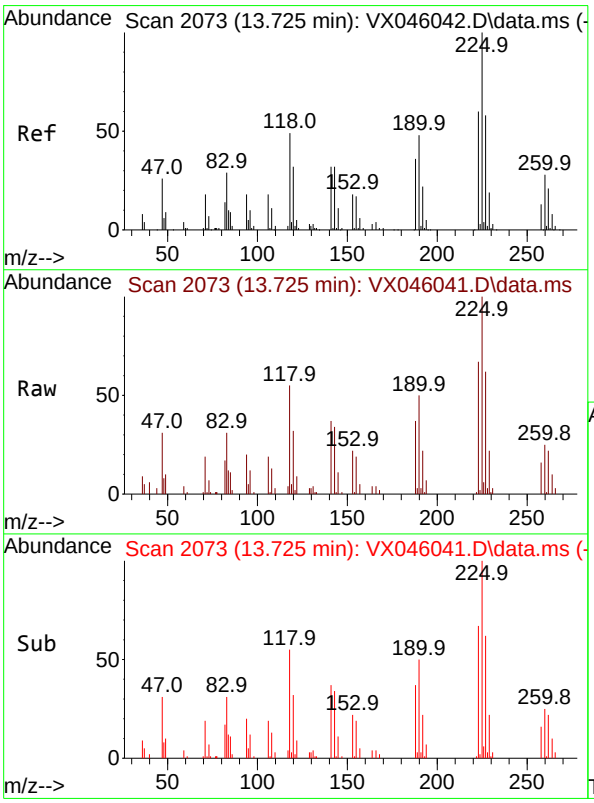
#93
1,2,4-Trichlorobenzene
Concen: 13.745 ug/l
RT: 13.585 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:180 Resp: 20846

Ion	Ratio	Lower	Upper
180	100		
182	96.6	47.9	143.8
145	34.1	17.1	51.2

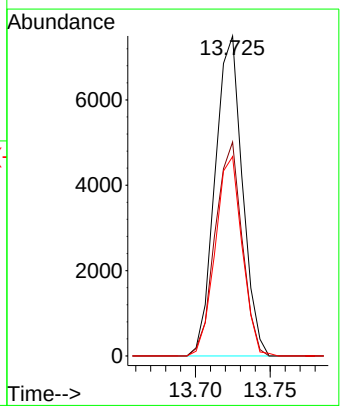


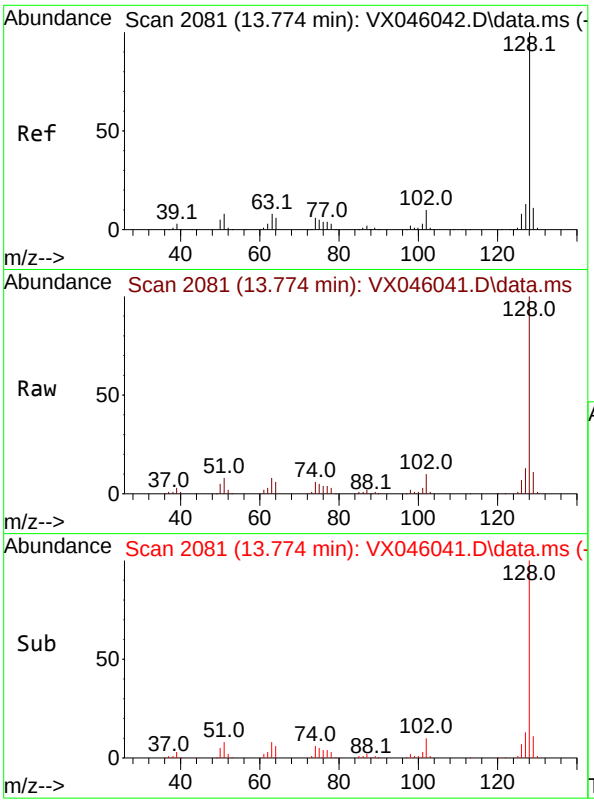


#94
Hexachlorobutadiene
Concen: 13.426 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion:225 Resp: 9524

Ion	Ratio	Lower	Upper
225	100		
223	65.6	30.8	92.4
227	61.4	30.9	92.7



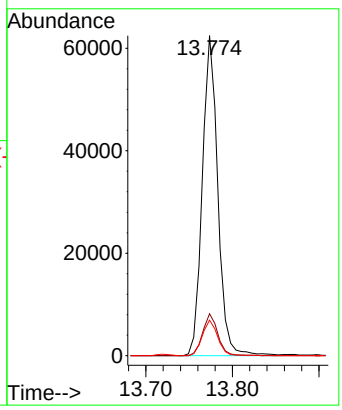


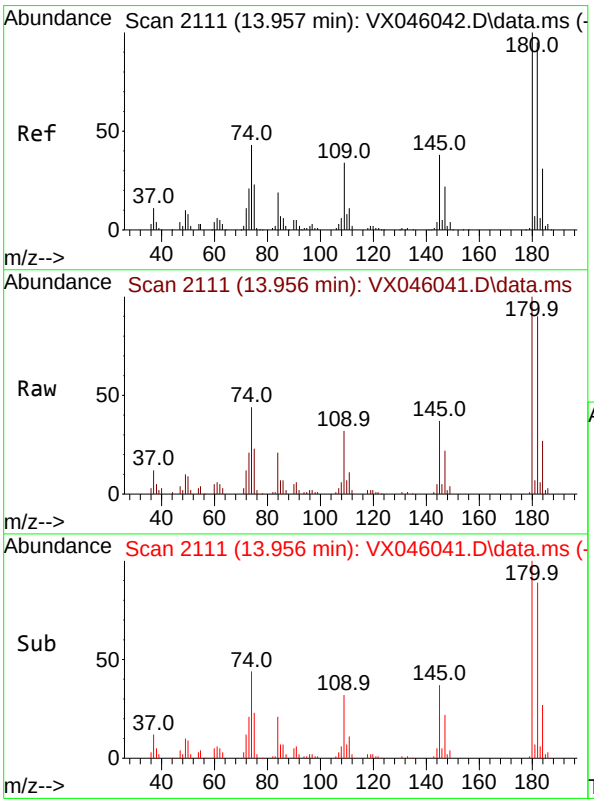
#95
Naphthalene
Concen: 14.040 ug/l
RT: 13.774 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:128 Resp: 77542

Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.4	15.6
129	11.1	8.6	13.0

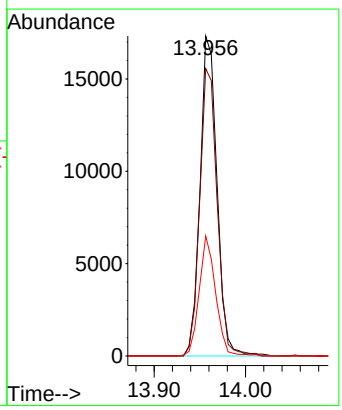




#96
1,2,3-Trichlorobenzene
Concen: 14.023 ug/l
RT: 13.956 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VX046041.D
Acq: 05 May 2025 11:35

Tgt Ion:180 Resp: 22301

Ion	Ratio	Lower	Upper
180	100		
182	92.1	47.8	143.3
145	36.5	18.1	54.3



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046042.D
Acq On : 05 May 2025 11:58
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Quant Time: May 06 06:09:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	97076	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	167947	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	146257	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	67976	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	88371	30.601	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	61.200%#		
35) Dibromofluoromethane	5.379	113	59550	31.633	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	63.260%#		
50) Toluene-d8	8.647	98	205479	32.395	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	64.780%#		
62) 4-Bromofluorobenzene	11.079	95	79012	34.229	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	68.460%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	83826	39.120	ug/l	100
3) Chloromethane	1.307	50	75238	35.658	ug/l	100
4) Vinyl Chloride	1.374	62	68901	37.273	ug/l	100
5) Bromomethane	1.593	94	31648	33.765	ug/l	100
6) Chloroethane	1.666	64	36722	38.558	ug/l	100
7) Trichlorofluoromethane	1.874	101	103693	36.824	ug/l	100
8) Diethyl Ether	2.136	74	32724	35.350	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.319	101	62251	36.997	ug/l	100
10) Methyl Iodide	2.447	142	78277	39.622	ug/l	100
11) Tert butyl alcohol	2.977	59	62557	181.745	ug/l	100
12) 1,1-Dichloroethene	2.313	96	58334	35.610	ug/l	100
13) Acrolein	2.233	56	73927	184.907	ug/l	100
14) Allyl chloride	2.654	41	114445	36.971	ug/l	100
15) Acrylonitrile	3.062	53	188304	182.874	ug/l	100
16) Acetone	2.386	43	175777	177.910	ug/l	100
17) Carbon Disulfide	2.502	76	141281	37.223	ug/l	100
18) Methyl Acetate	2.703	43	82347	34.915	ug/l	100
19) Methyl tert-butyl Ether	3.111	73	209665	36.695	ug/l	100
20) Methylene Chloride	2.782	84	66412	33.182	ug/l	100
21) trans-1,2-Dichloroethene	3.087	96	59234	35.421	ug/l	100
22) Diisopropyl ether	3.757	45	221172	38.241	ug/l	100
23) Vinyl Acetate	3.721	43	994236	194.528	ug/l	100
24) 1,1-Dichloroethane	3.605	63	122601	36.067	ug/l	100
25) 2-Butanone	4.556	43	269224	188.783	ug/l	100
26) 2,2-Dichloropropane	4.465	77	92857	36.059	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	71518	35.466	ug/l	100
28) Bromochloromethane	4.898	49	56091	31.031	ug/l	100
29) Tetrahydrofuran	5.001	42	170124	183.679	ug/l	100
30) Chloroform	5.087	83	125850	35.626	ug/l	100
31) Cyclohexane	5.464	56	109459	38.205	ug/l	100
32) 1,1,1-Trichloroethane	5.373	97	109781	36.034	ug/l	100
36) 1,1-Dichloropropene	5.684	75	83215	38.073	ug/l	100
37) Ethyl Acetate	4.715	43	102537	37.394	ug/l	100
38) Carbon Tetrachloride	5.672	117	93712	37.320	ug/l	100
39) Methylcyclohexane	7.373	83	107651	39.307	ug/l	100
40) Benzene	6.031	78	247476	36.530	ug/l	100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046042.D
Acq On : 05 May 2025 11:58
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Quant Time: May 06 06:09:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.916	41	58082	38.123	ug/l		100
42) 1,2-Dichloroethane	6.080	62	105332	37.605	ug/l		100
43) Isopropyl Acetate	6.336	43	161787	38.598	ug/l		100
44) Trichloroethene	7.123	130	59623	37.230	ug/l		100
45) 1,2-Dichloropropane	7.428	63	62387	37.064	ug/l		100
46) Dibromomethane	7.574	93	48201	36.326	ug/l		100
47) Bromodichloromethane	7.818	83	96916	37.685	ug/l		100
48) Methyl methacrylate	7.690	41	84277	39.157	ug/l		100
49) 1,4-Dioxane	7.659	88	30529	713.477	ug/l		100
51) 4-Methyl-2-Pentanone	8.574	43	532388	193.653	ug/l		100
52) Toluene	8.714	92	150757	37.530	ug/l		100
53) t-1,3-Dichloropropene	8.976	75	88655	41.056	ug/l		100
54) cis-1,3-Dichloropropene	8.360	75	97031	38.521	ug/l		100
55) 1,1,2-Trichloroethane	9.147	97	59499	36.648	ug/l		100
56) Ethyl methacrylate	9.116	69	99947	39.726	ug/l		100
57) 1,3-Dichloropropane	9.305	76	104606	36.347	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	257678	227.902	ug/l		100
59) 2-Hexanone	9.427	43	396784	190.168	ug/l		100
60) Dibromochloromethane	9.519	129	67198	38.027	ug/l		100
61) 1,2-Dibromoethane	9.604	107	62633	37.567	ug/l		100
64) Tetrachloroethene	9.269	164	54853	36.726	ug/l		100
65) Chlorobenzene	10.079	112	160600	35.686	ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.159	131	57066	38.017	ug/l		100
67) Ethyl Benzene	10.189	91	295712	38.543	ug/l		100
68) m/p-Xylenes	10.299	106	216578	78.142	ug/l		100
69) o-Xylene	10.640	106	106335	38.064	ug/l		100
70) Styrene	10.653	104	178313	39.888	ug/l		100
71) Bromoform	10.799	173	44486	39.457	ug/l	#	100
73) Isopropylbenzene	10.957	105	280719	37.865	ug/l		100
74) N-amyl acetate	10.842	43	140509	38.012	ug/l		100
75) 1,1,2,2-Tetrachloroethane	11.207	83	90975	34.495	ug/l		100
76) 1,2,3-Trichloropropane	11.238	75	102335	36.110	ug/l		86
77) Bromobenzene	11.195	156	63053	36.763	ug/l		100
78) n-propylbenzene	11.299	91	329981	39.707	ug/l		100
79) 2-Chlorotoluene	11.360	91	203509	36.336	ug/l		100
80) 1,3,5-Trimethylbenzene	11.451	105	237066	38.516	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	26179	38.445	ug/l		100
82) 4-Chlorotoluene	11.451	91	233172	37.880	ug/l		100
83) tert-Butylbenzene	11.713	119	233468	38.622	ug/l		100
84) 1,2,4-Trimethylbenzene	11.750	105	239433	38.946	ug/l		100
85) sec-Butylbenzene	11.890	105	291074	38.786	ug/l		100
86) p-Isopropyltoluene	12.006	119	241658	39.879	ug/l		100
87) 1,3-Dichlorobenzene	11.969	146	115651	36.199	ug/l		100
88) 1,4-Dichlorobenzene	12.036	146	115097	36.763	ug/l		100
89) n-Butylbenzene	12.329	91	213899	40.603	ug/l		100
90) Hexachloroethane	12.536	117	42314	37.534	ug/l		100
91) 1,2-Dichlorobenzene	12.335	146	115286	37.047	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	12.939	75	21909	36.496	ug/l		100
93) 1,2,4-Trichlorobenzene	13.585	180	66655	39.117	ug/l		100
94) Hexachlorobutadiene	13.725	225	29007	36.395	ug/l		100
95) Naphthalene	13.774	128	245568	39.575	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	69262	38.765	ug/l		100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046042.D
Acq On : 05 May 2025 11:58
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Quant Time: May 06 06:09:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

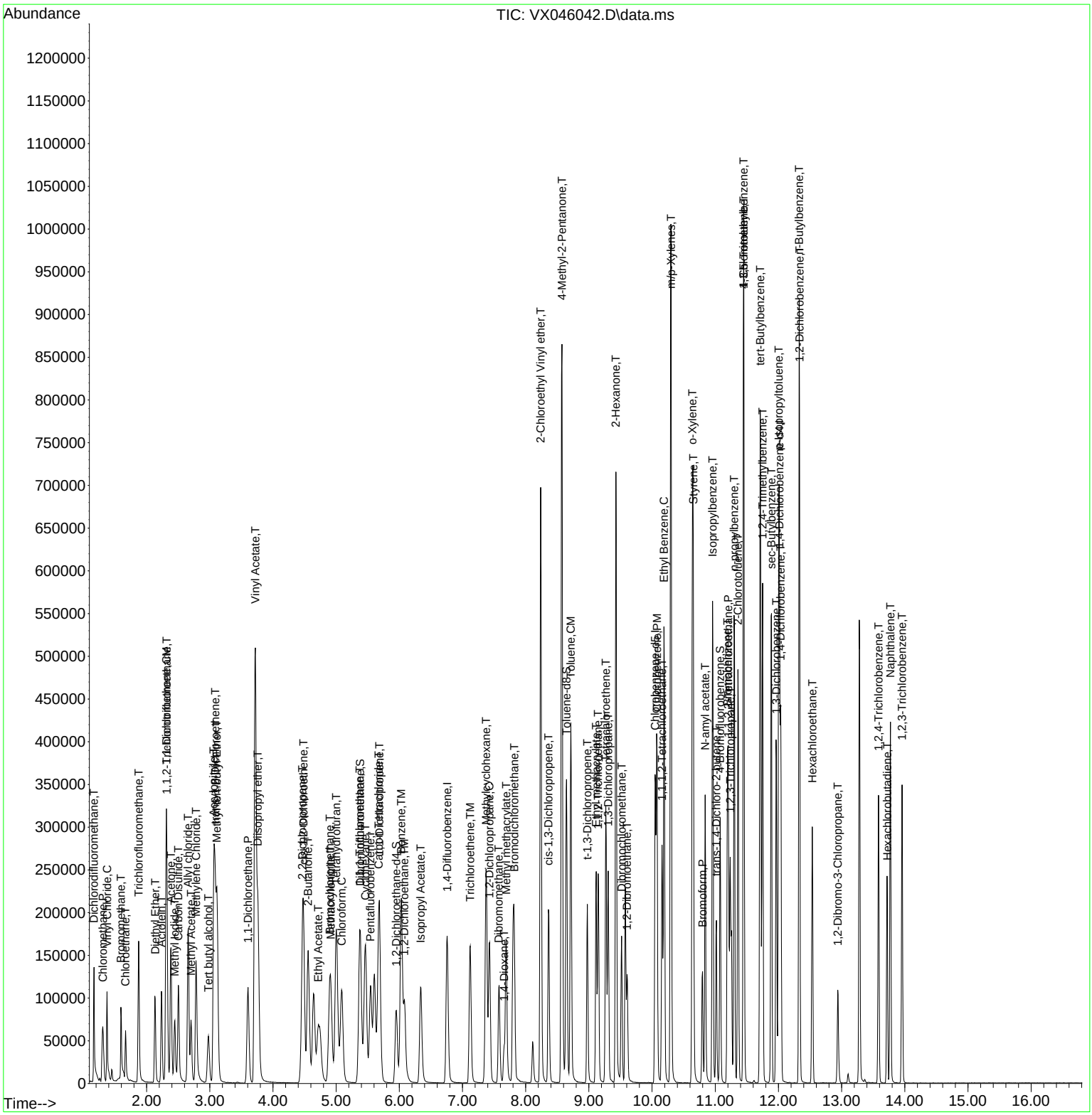
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

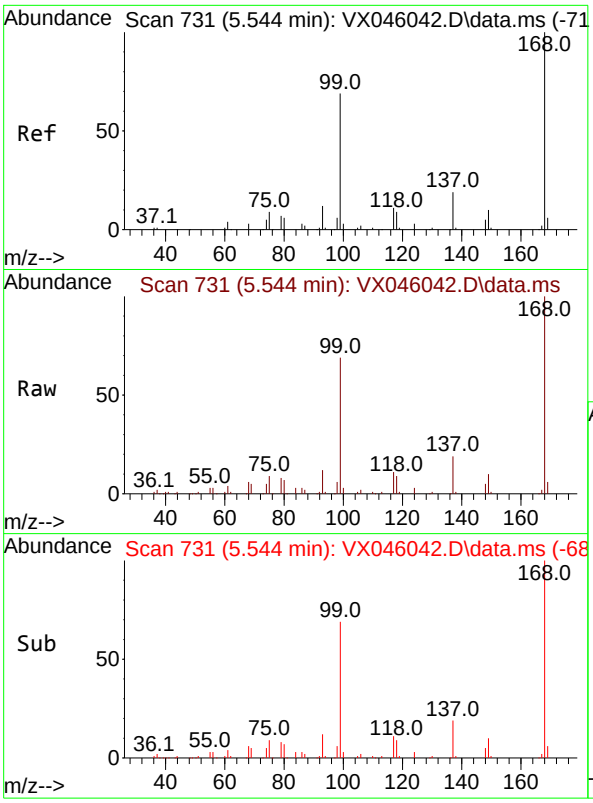
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046042.D
Acq On : 05 May 2025 11:58
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Quant Time: May 06 06:09:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration



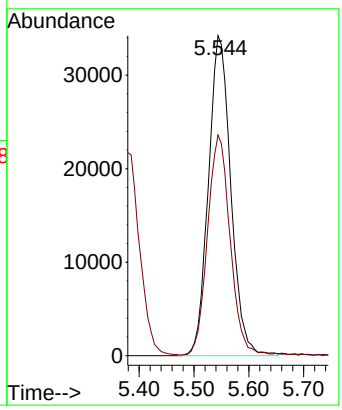


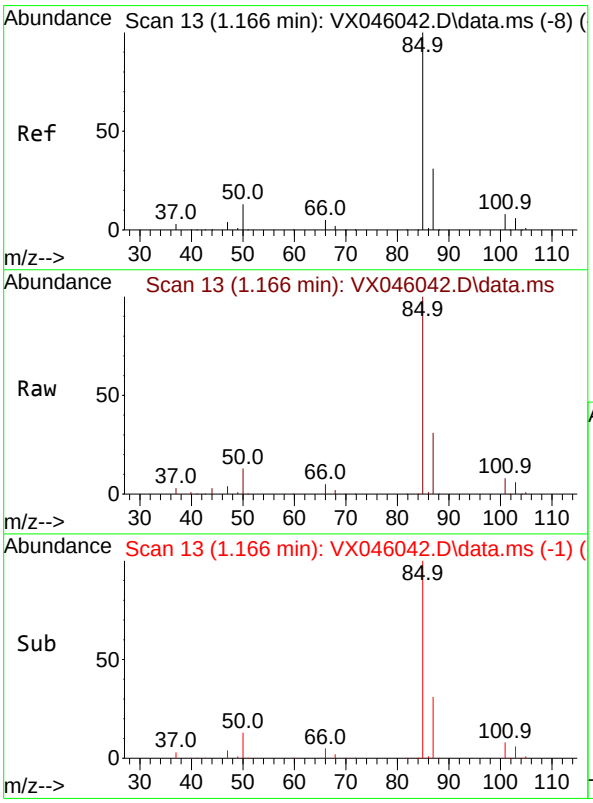
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:168 Resp: 97076

Ion	Ratio	Lower	Upper
168	100		
99	68.6	54.9	82.3

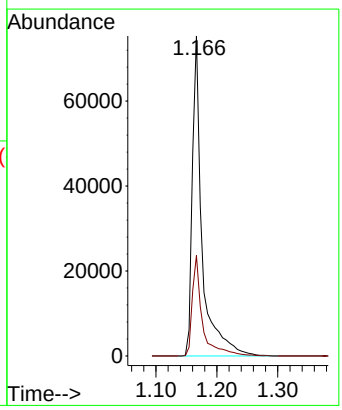


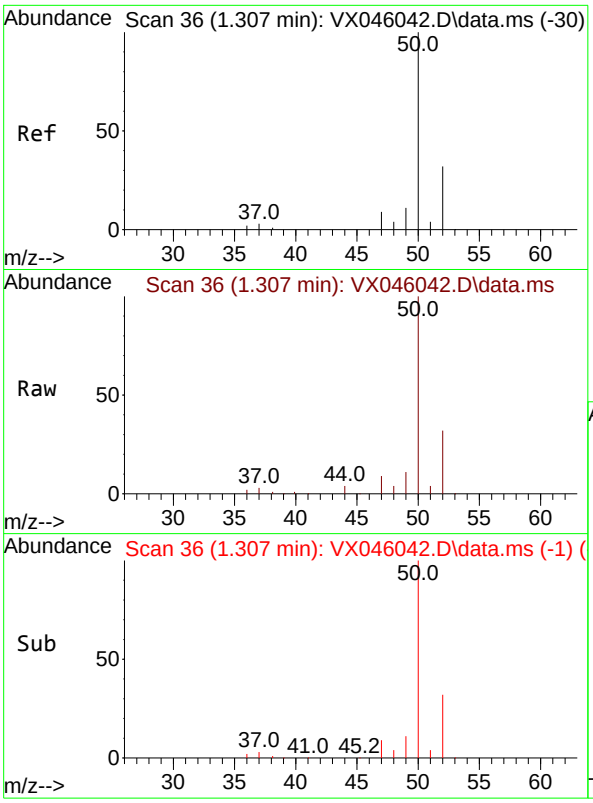


#2
Dichlorodifluoromethane
Concen: 39.120 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 85 Resp: 83826

Ion	Ratio	Lower	Upper
85	100		
87	31.4	15.7	47.1



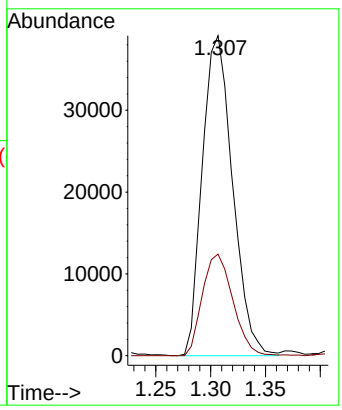


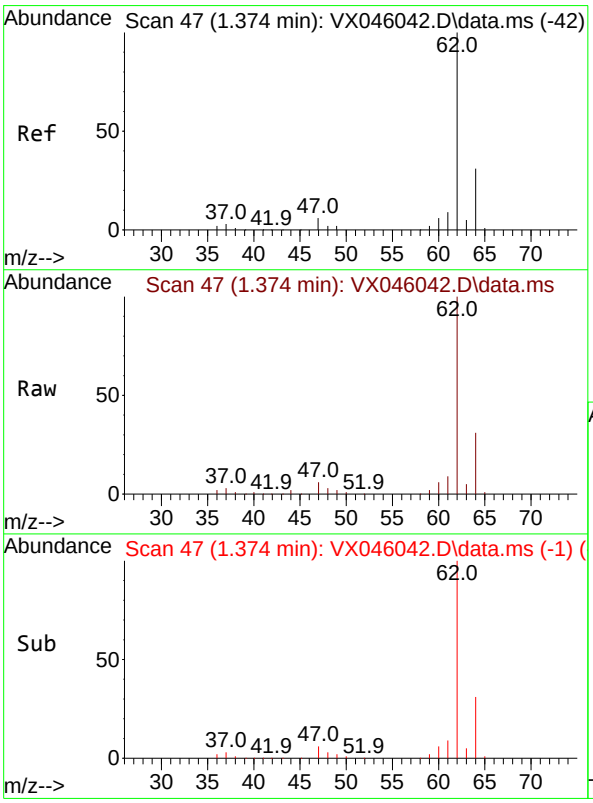
#3
Chloromethane
Concen: 35.658 ug/l
RT: 1.307 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 50 Resp: 75238

Ion	Ratio	Lower	Upper
50	100		
52	31.8	25.4	38.2

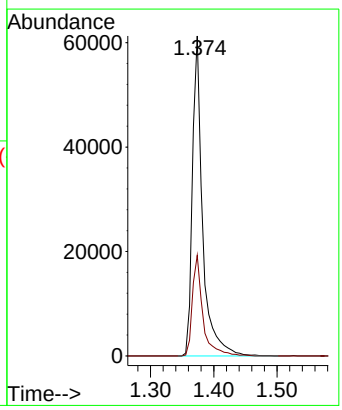


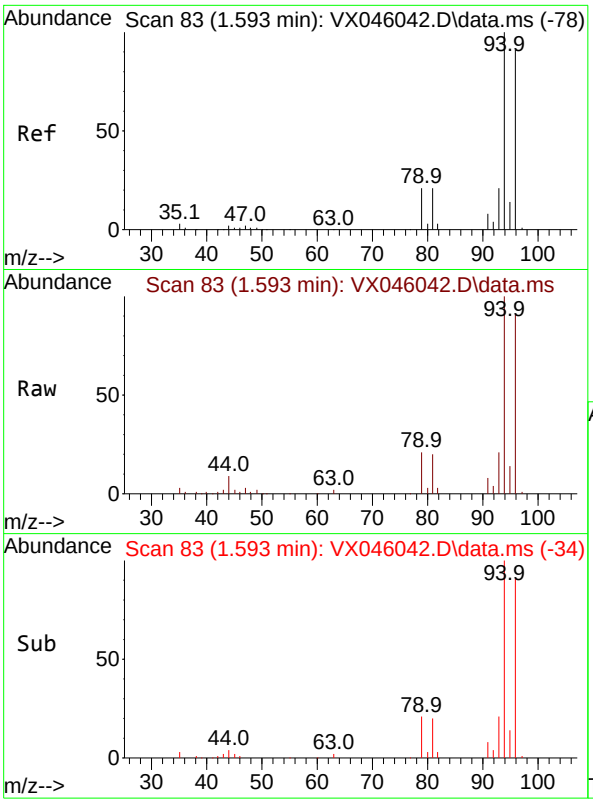


#4
Vinyl Chloride
Concen: 37.273 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 62 Resp: 68901

Ion	Ratio	Lower	Upper
62	100		
64	31.5	25.2	37.8



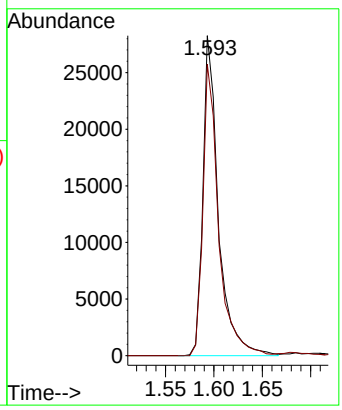


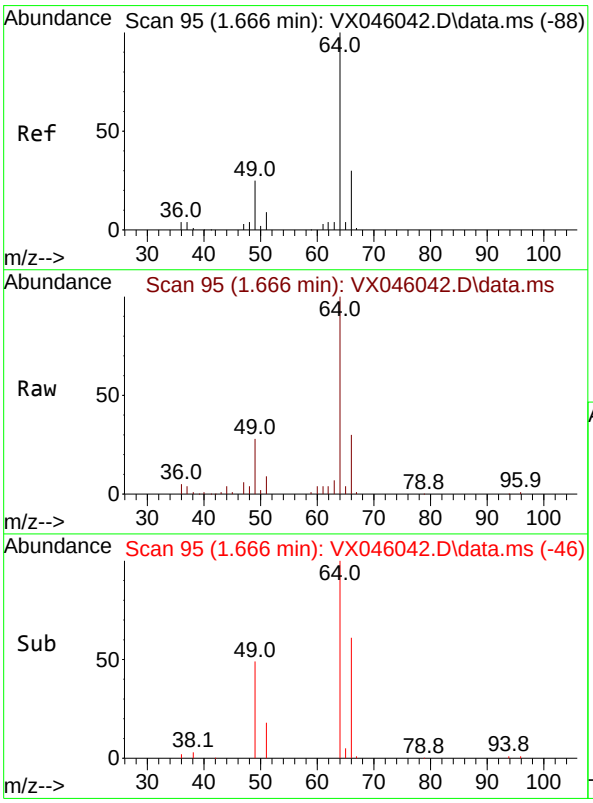
#5
Bromomethane
Concen: 33.765 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 94 Resp: 31648

Ion	Ratio	Lower	Upper
94	100		
96	91.0	72.8	109.2

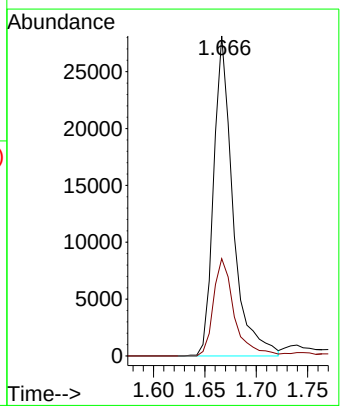


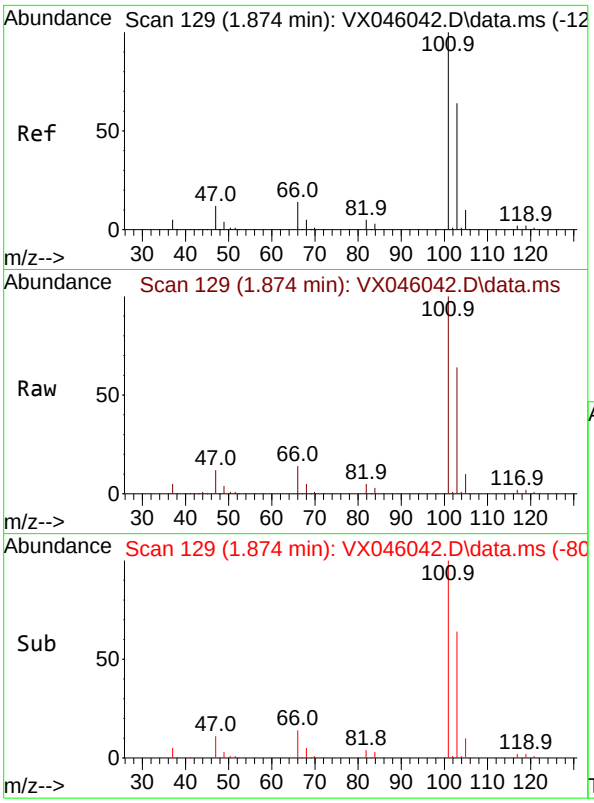


#6
Chloroethane
Concen: 38.558 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 64 Resp: 36722

Ion	Ratio	Lower	Upper
64	100		
66	30.4	24.3	36.5



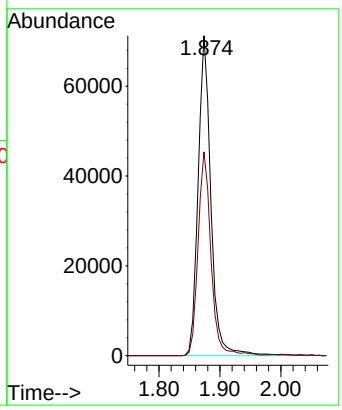


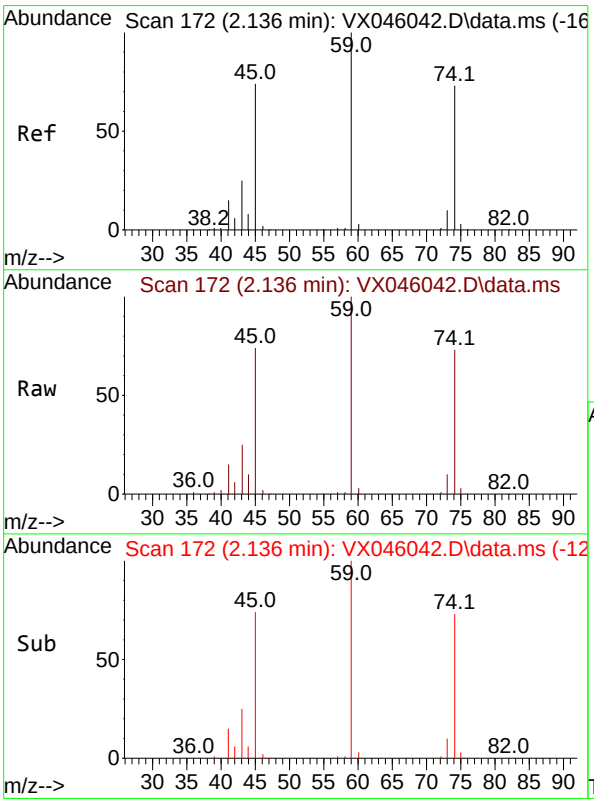
#7
Trichlorofluoromethane
Concen: 36.824 ug/l
RT: 1.874 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:101 Resp: 103693

Ion	Ratio	Lower	Upper
101	100		
103	63.7	51.0	76.4

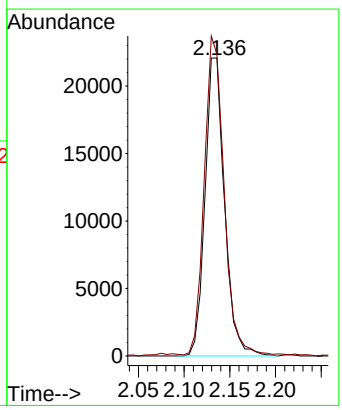


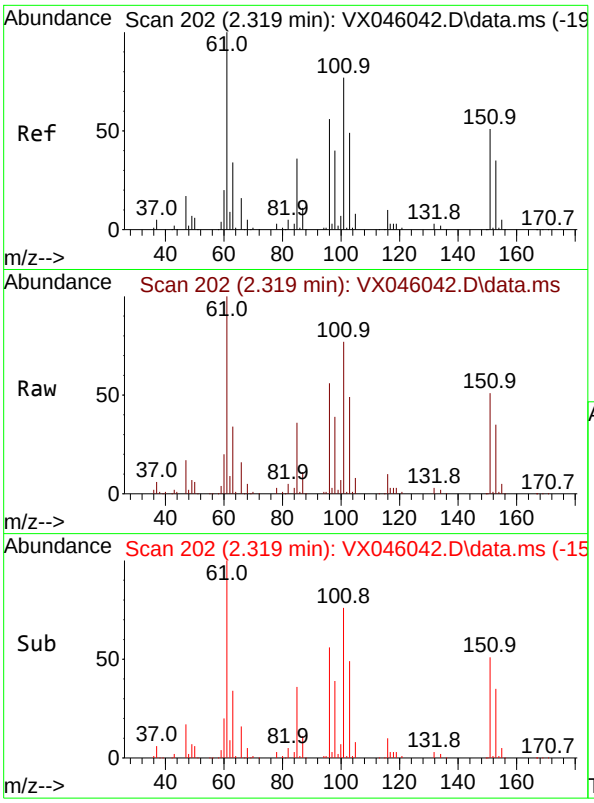


#8
Diethyl Ether
Concen: 35.350 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 74 Resp: 32724

Ion	Ratio	Lower	Upper
74	100		
45	109.9	54.9	164.8



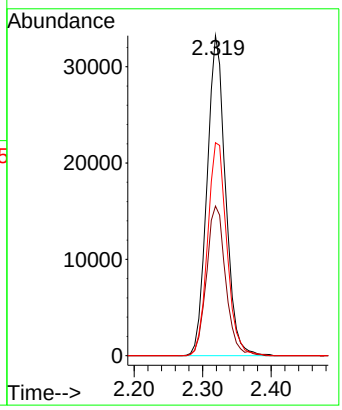


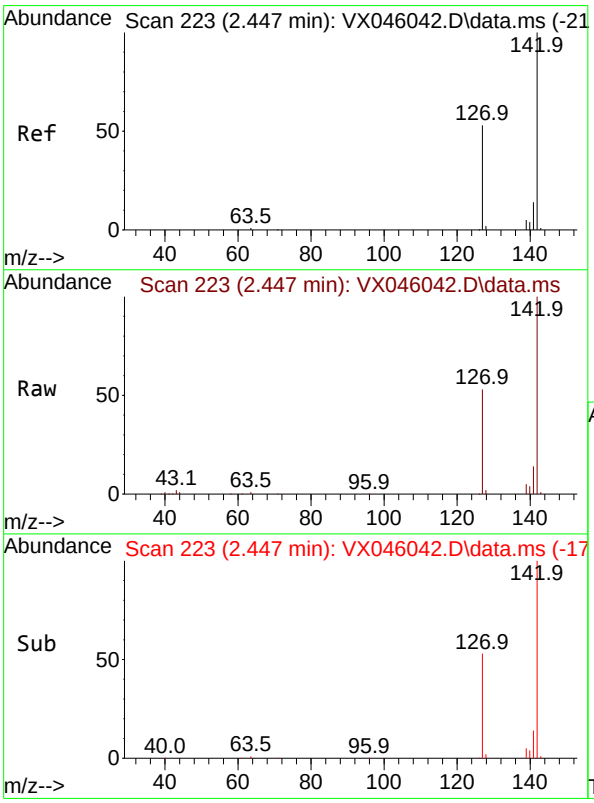
#9
1,1,2-Trichlorotrifluoroethane
Concen: 36.997 ug/l
RT: 2.319 min Scan# 2(
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:101 Resp: 62251

Ion	Ratio	Lower	Upper
101	100		
85	48.3	38.6	58.0
151	69.0	55.2	82.8

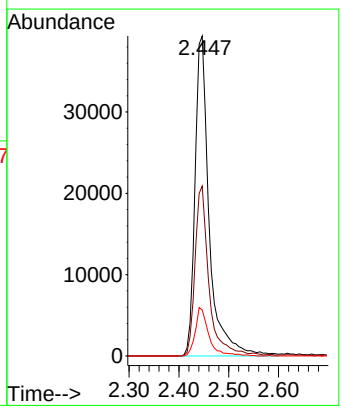


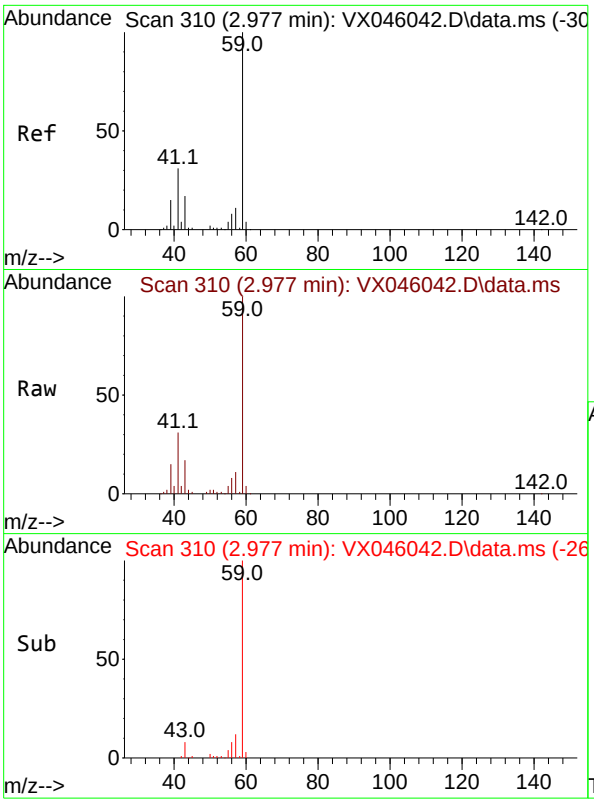


#10
Methyl Iodide
Concen: 39.622 ug/l
RT: 2.447 min Scan# 223
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion:142 Resp: 78277

Ion	Ratio	Lower	Upper
142	100		
127	52.1	41.7	62.5
141	14.4	11.5	17.3



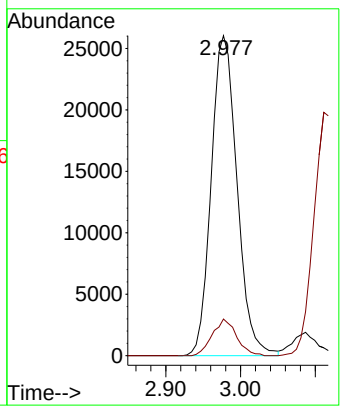


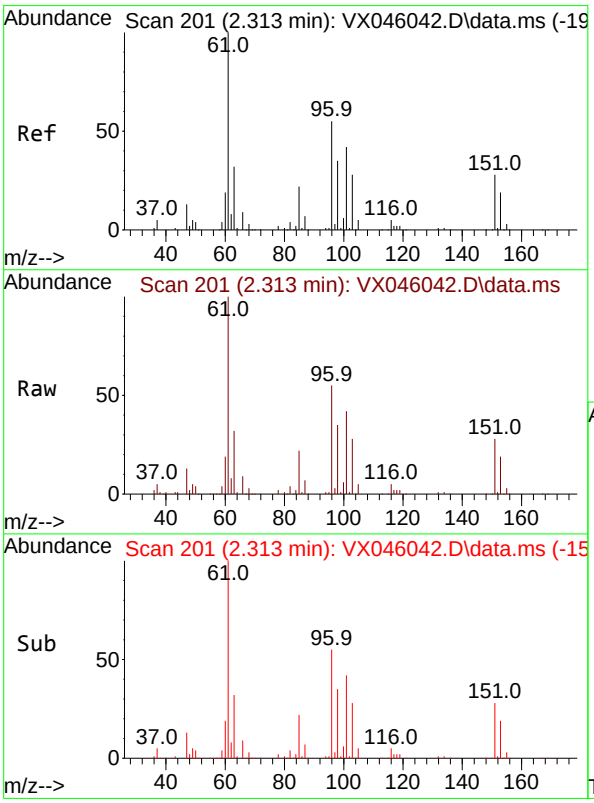
#11
Tert butyl alcohol
Concen: 181.745 ug/l
RT: 2.977 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 59 Resp: 62557

Ion	Ratio	Lower	Upper
59	100		
57	10.7	8.6	12.8

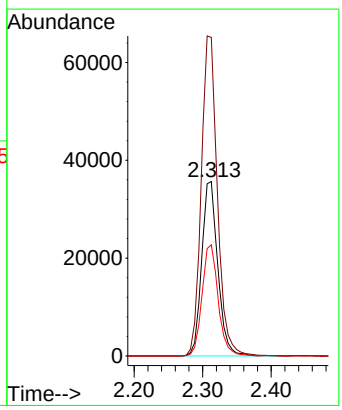


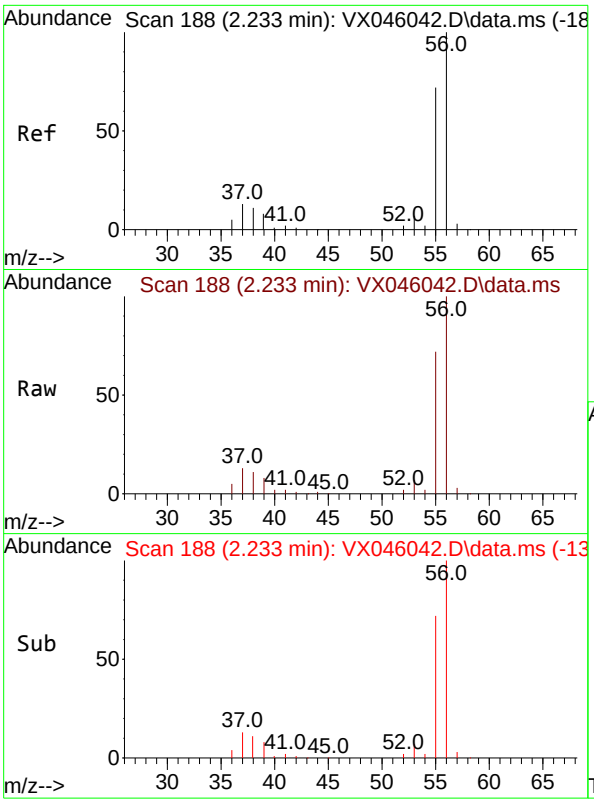


#12
1,1-Dichloroethene
Concen: 35.610 ug/l
RT: 2.313 min Scan# 201
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 96 Resp: 58334

Ion	Ratio	Lower	Upper
96	100		
61	182.7	146.2	219.2
98	63.8	51.0	76.6



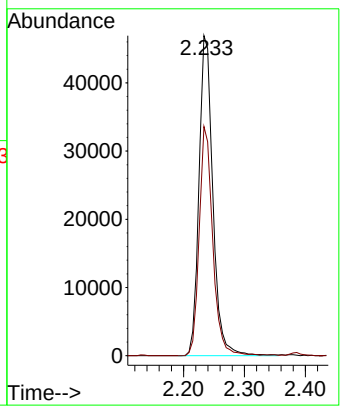


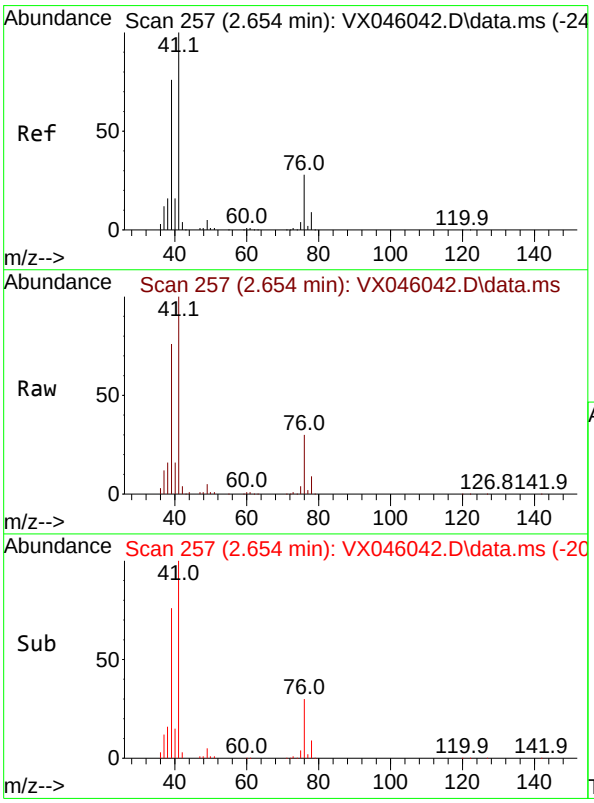
#13
Acrolein
Concen: 184.907 ug/l
RT: 2.233 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 56 Resp: 73927

Ion	Ratio	Lower	Upper
56	100		
55	70.3	56.2	84.4

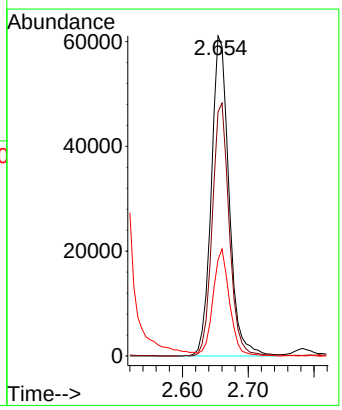


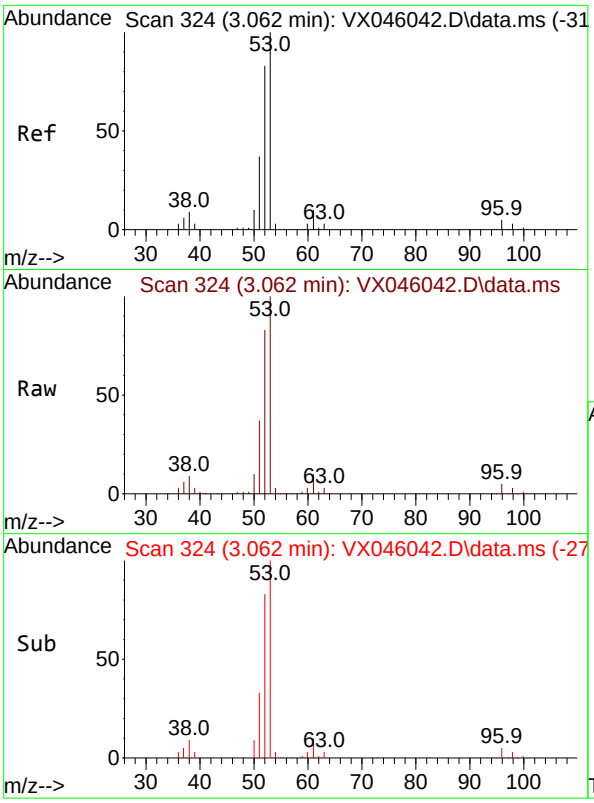


#14
Allyl chloride
Concen: 36.971 ug/l
RT: 2.654 min Scan# 257
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 41 Resp: 114445

Ion	Ratio	Lower	Upper
41	100		
39	75.7	60.6	90.8
76	31.1	24.9	37.3



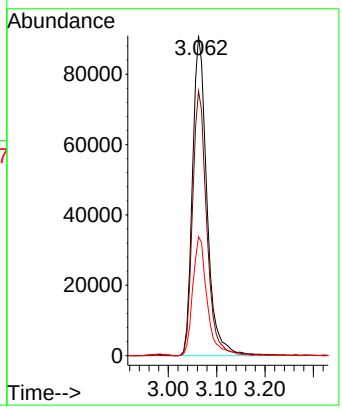


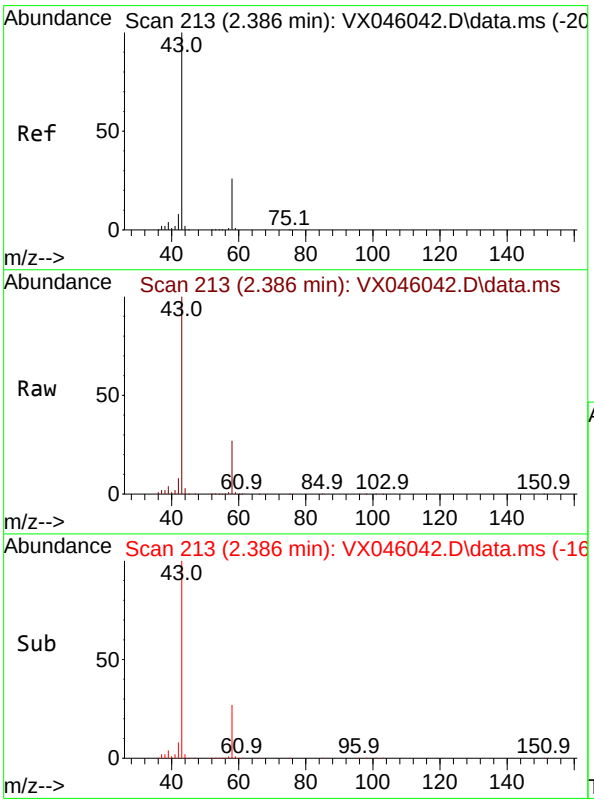
#15
Acrylonitrile
Concen: 182.874 ug/l
RT: 3.062 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 53 Resp: 188304

Ion	Ratio	Lower	Upper
53	100		
52	81.6	65.3	97.9
51	37.3	29.8	44.8

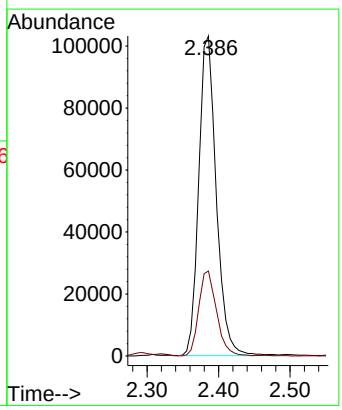


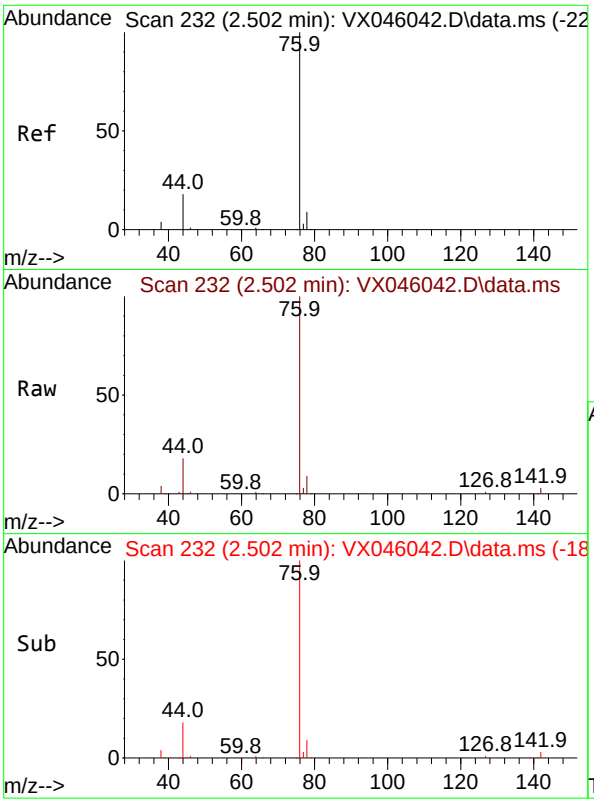


#16
Acetone
Concen: 177.910 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 43 Resp: 175777

Ion	Ratio	Lower	Upper
43	100		
58	26.5	21.2	31.8



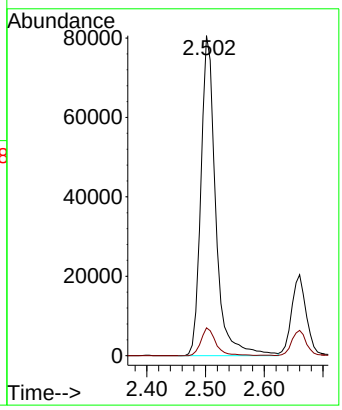


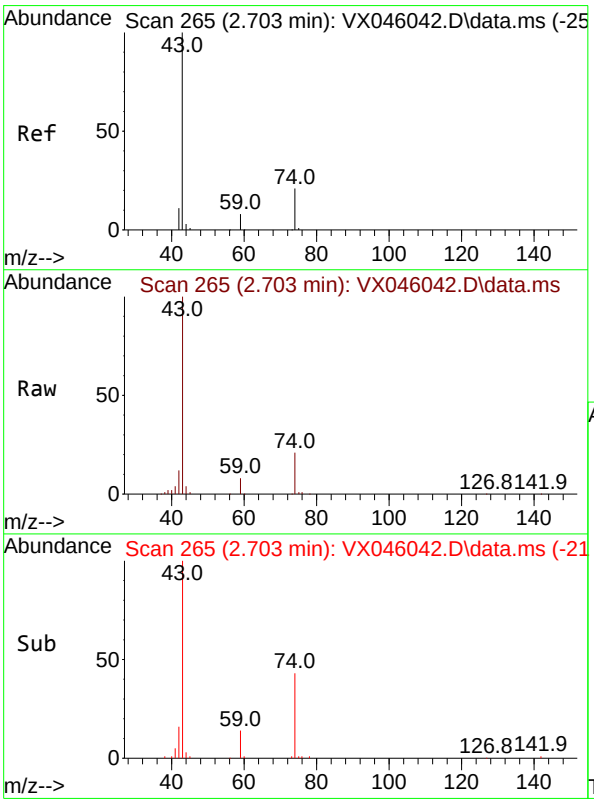
#17
Carbon Disulfide
Concen: 37.223 ug/l
RT: 2.502 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 76 Resp: 141281

Ion	Ratio	Lower	Upper
76	100		
78	8.7	7.0	10.4

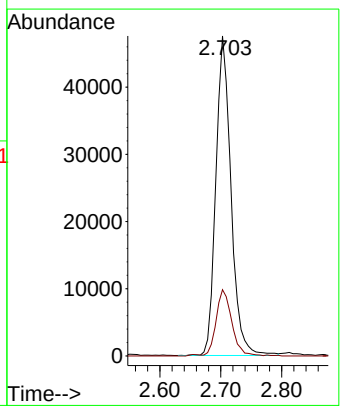


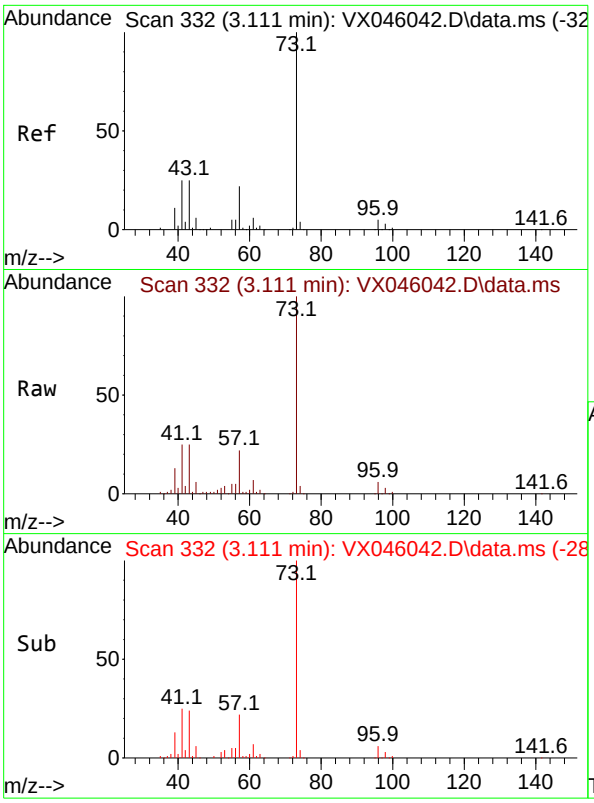


#18
Methyl Acetate
Concen: 34.915 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 43 Resp: 82347

Ion	Ratio	Lower	Upper
43	100		
74	20.9	16.7	25.1



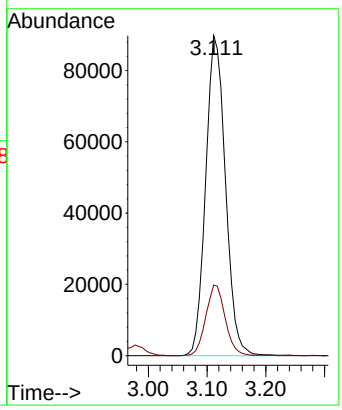


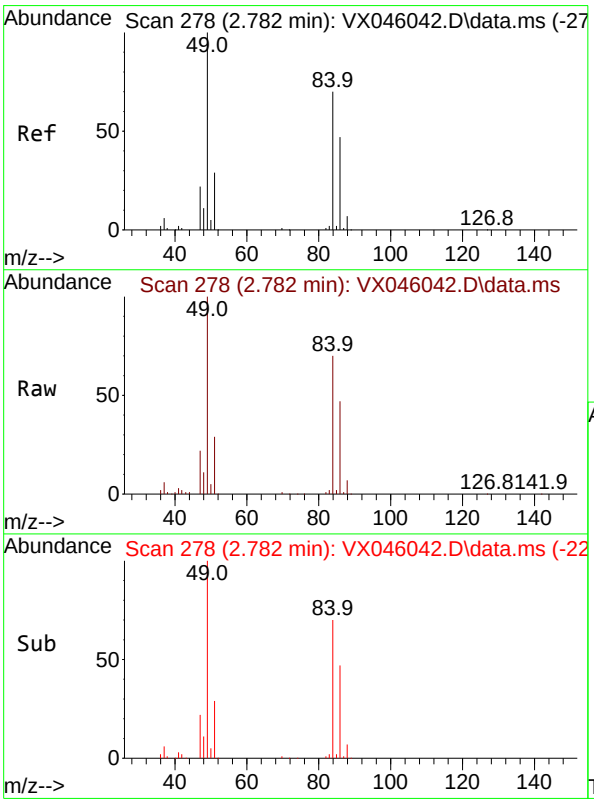
#19
Methyl tert-butyl Ether
Concen: 36.695 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 73 Resp: 209665

Ion	Ratio	Lower	Upper
73	100		
57	22.1	17.7	26.5

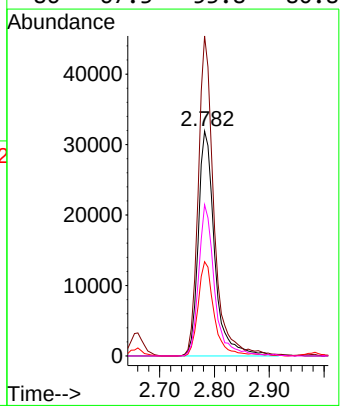


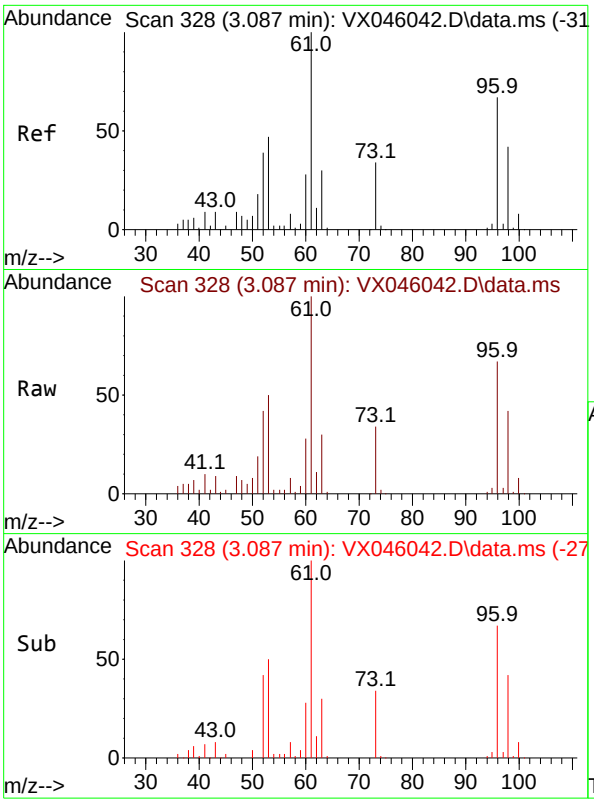


#20
Methylene Chloride
Concen: 33.182 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 84 Resp: 66412

Ion	Ratio	Lower	Upper
84	100		
49	142.4	113.9	170.9
51	41.9	33.5	50.3
86	67.3	53.8	80.8



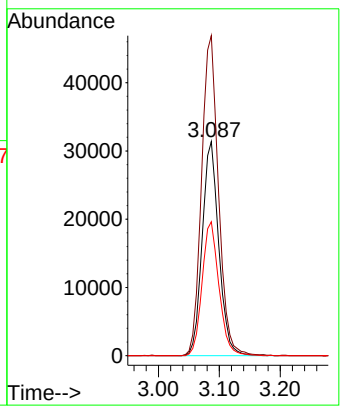


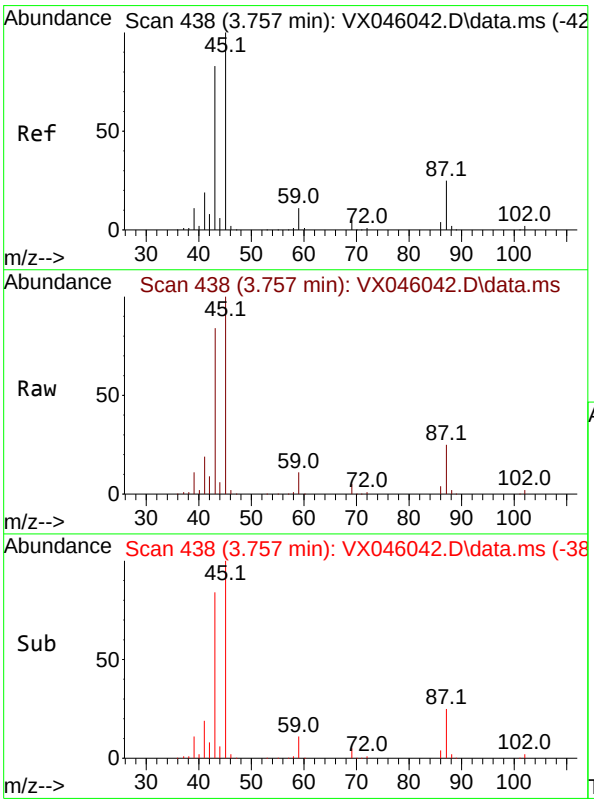
#21
trans-1,2-Dichloroethene
Concen: 35.421 ug/l
RT: 3.087 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 96 Resp: 59234

Ion	Ratio	Lower	Upper
96	100		
61	149.4	119.5	179.3
98	62.5	50.0	75.0

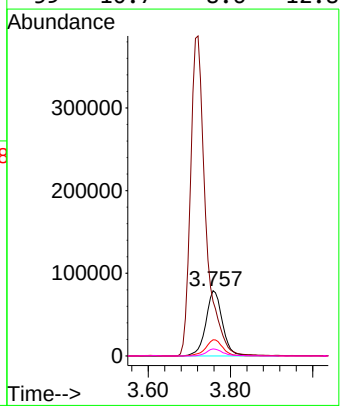


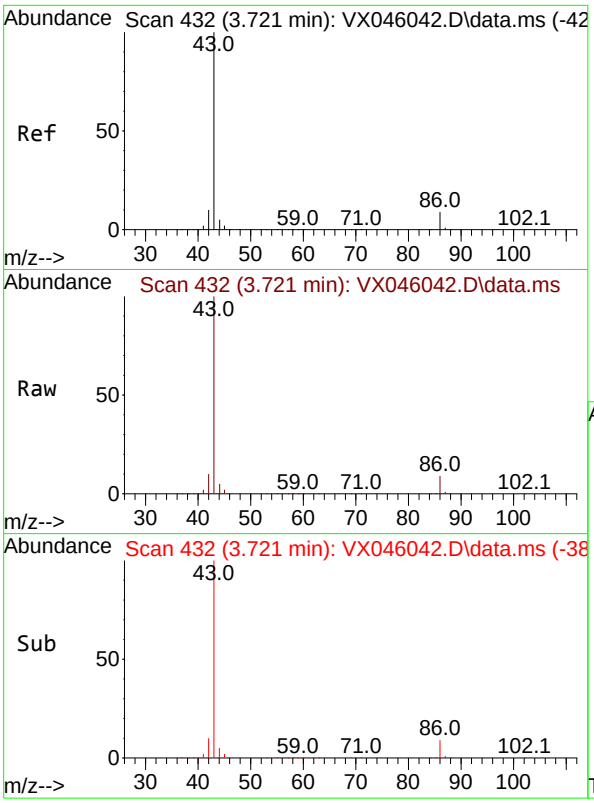


#22
Diisopropyl ether
Concen: 38.241 ug/l
RT: 3.757 min Scan# 438
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 45 Resp: 221172

Ion	Ratio	Lower	Upper
45	100		
43	83.3	66.6	100.0
87	24.7	19.8	29.6
59	10.7	8.6	12.8



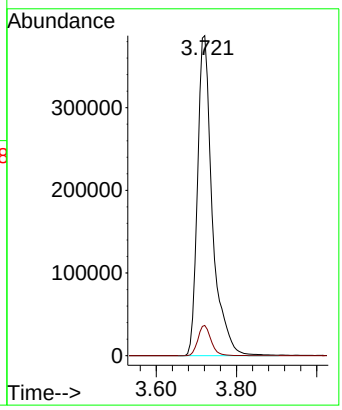


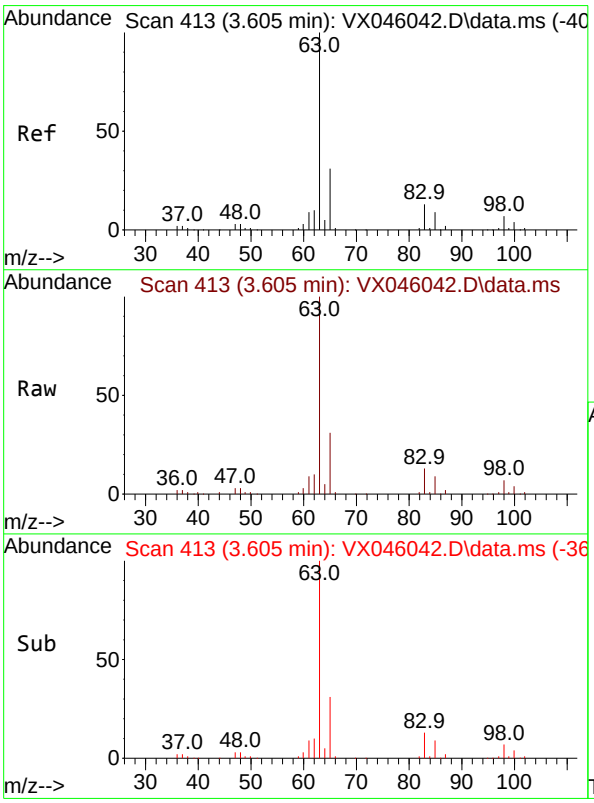
#23
Vinyl Acetate
Concen: 194.528 ug/l
RT: 3.721 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 994236

Ion	Ratio	Lower	Upper
43	100		
86	9.4	7.5	11.3

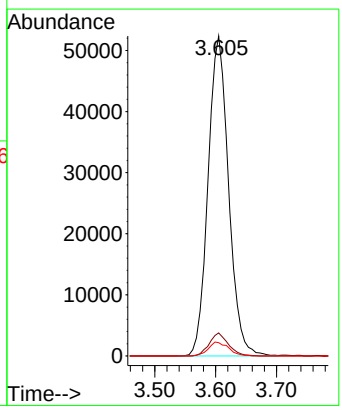


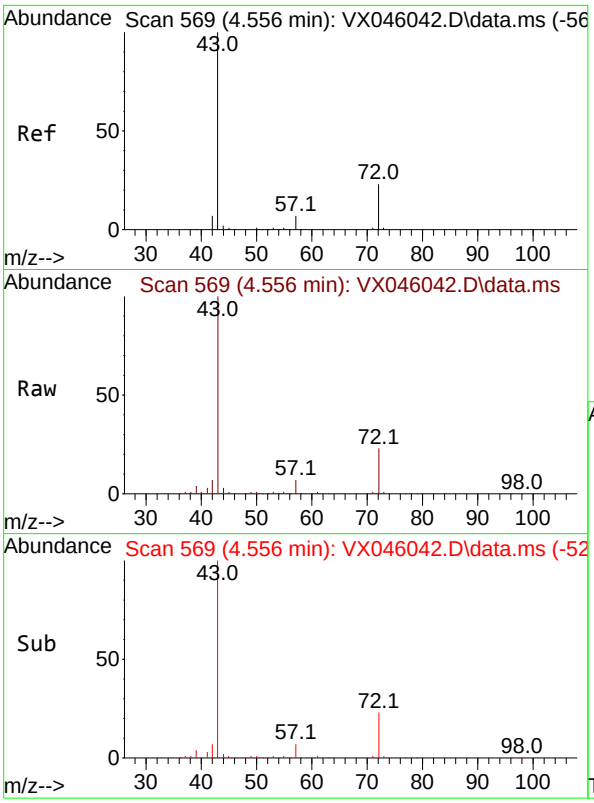


#24
1,1-Dichloroethane
Concen: 36.067 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 63 Resp: 122601

Ion	Ratio	Lower	Upper
63	100		
98	7.2	3.6	10.8
100	4.2	2.1	6.3



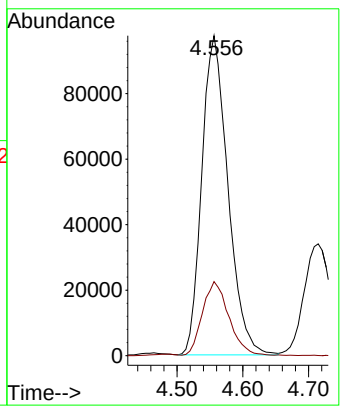


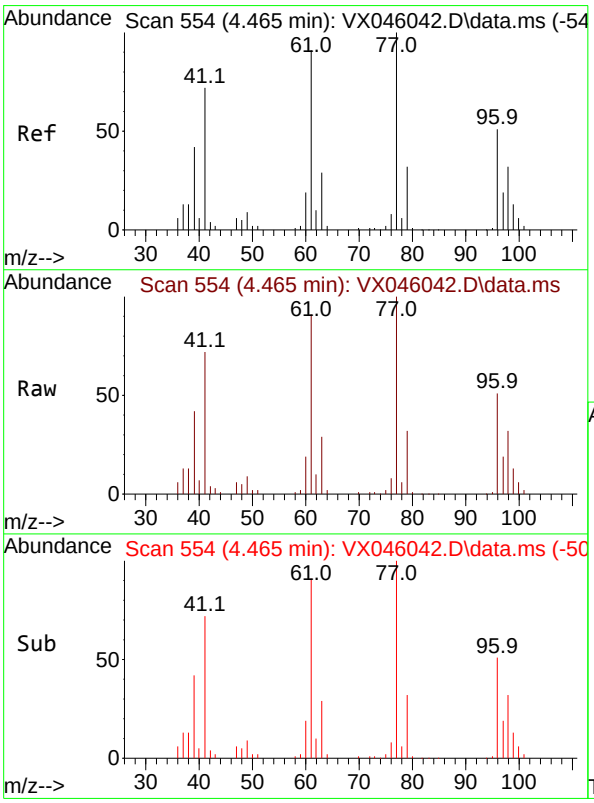
#25
2-Butanone
Concen: 188.783 ug/l
RT: 4.556 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 269224

Ion	Ratio	Lower	Upper
43	100		
72	23.0	18.4	27.6

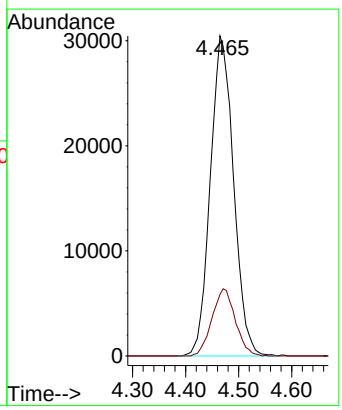


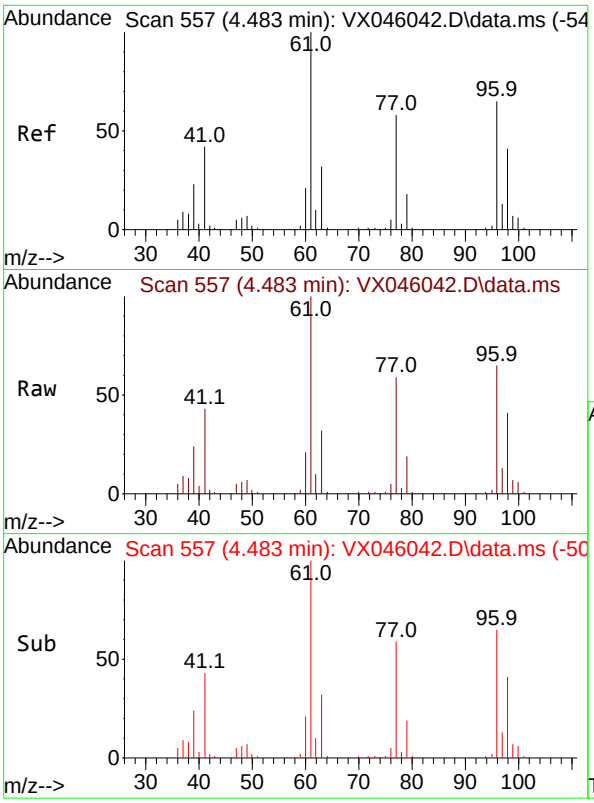


#26
2,2-Dichloropropane
Concen: 36.059 ug/l
RT: 4.465 min Scan# 554
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 77 Resp: 92857

Ion	Ratio	Lower	Upper
77	100		
97	21.0	10.5	31.5



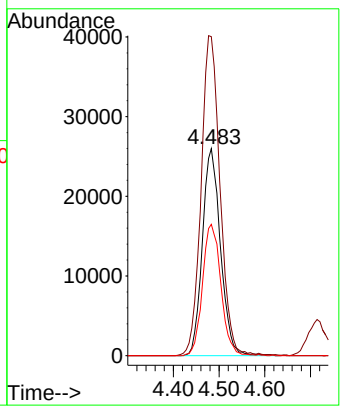


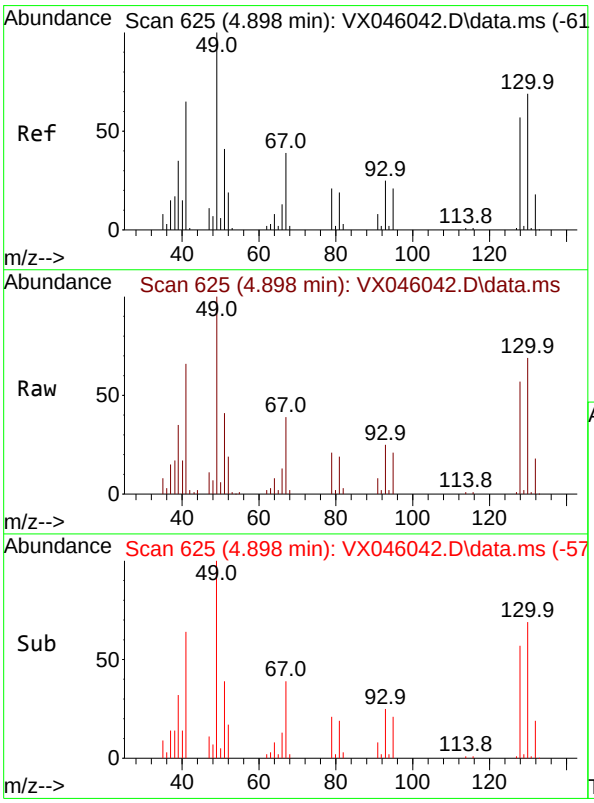
#27
cis-1,2-Dichloroethene
Concen: 35.466 ug/l
RT: 4.483 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 96 Resp: 71518

Ion	Ratio	Lower	Upper
96	100		
61	161.4	0.0	322.8
98	64.5	0.0	129.0

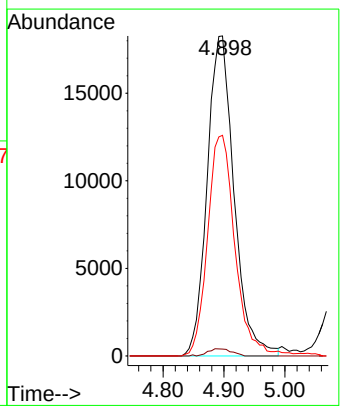


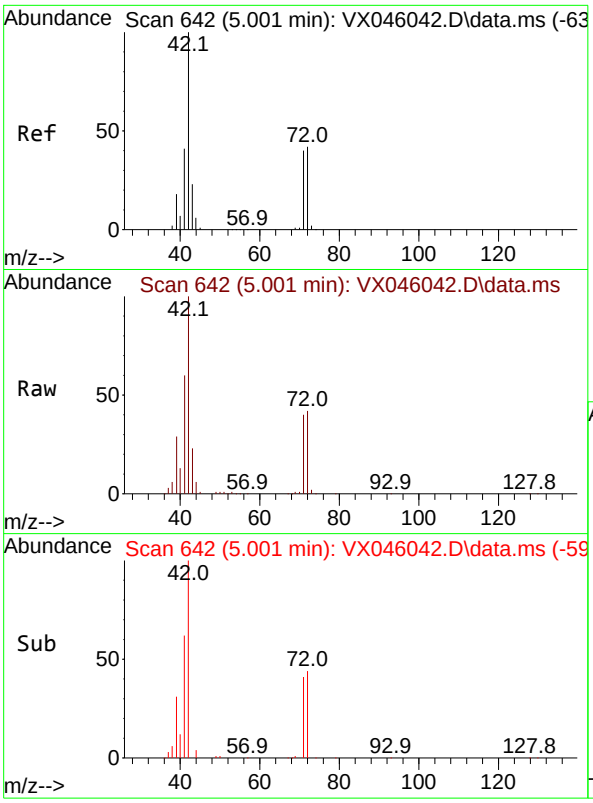


#28
Bromochloromethane
Concen: 31.031 ug/l
RT: 4.898 min Scan# 625
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 49 Resp: 56091

Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	4.0
130	70.2	56.2	84.2



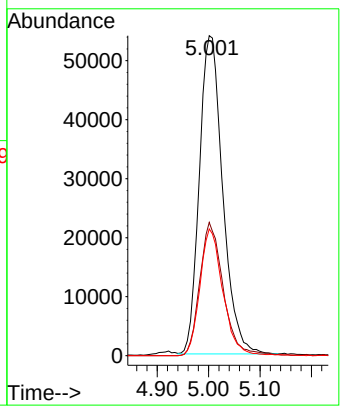


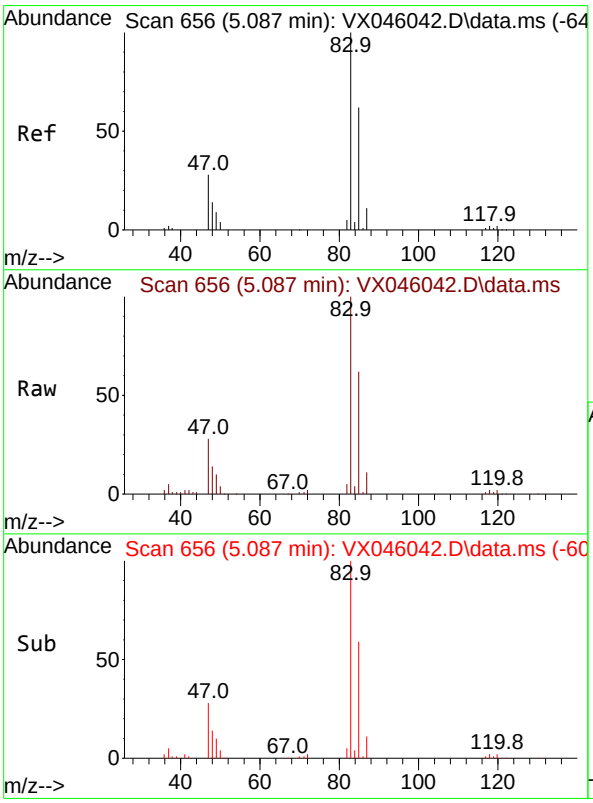
#29
Tetrahydrofuran
Concen: 183.679 ug/l
RT: 5.001 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 42 Resp: 170124

Ion	Ratio	Lower	Upper
42	100		
72	42.1	33.7	50.5
71	39.3	31.4	47.2

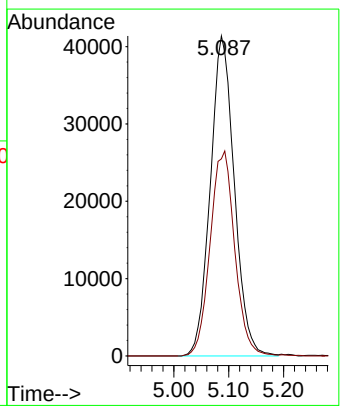


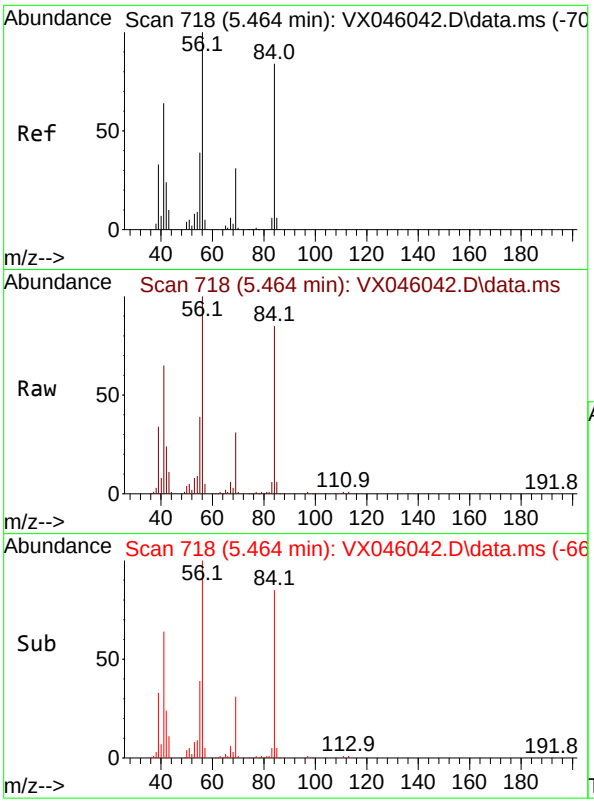


#30
Chloroform
Concen: 35.626 ug/l
RT: 5.087 min Scan# 656
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 83 Resp: 125850

Ion	Ratio	Lower	Upper
83	100		
85	61.6	49.3	73.9



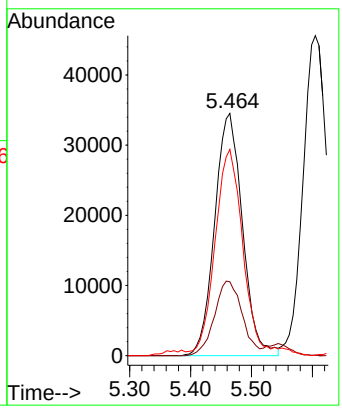


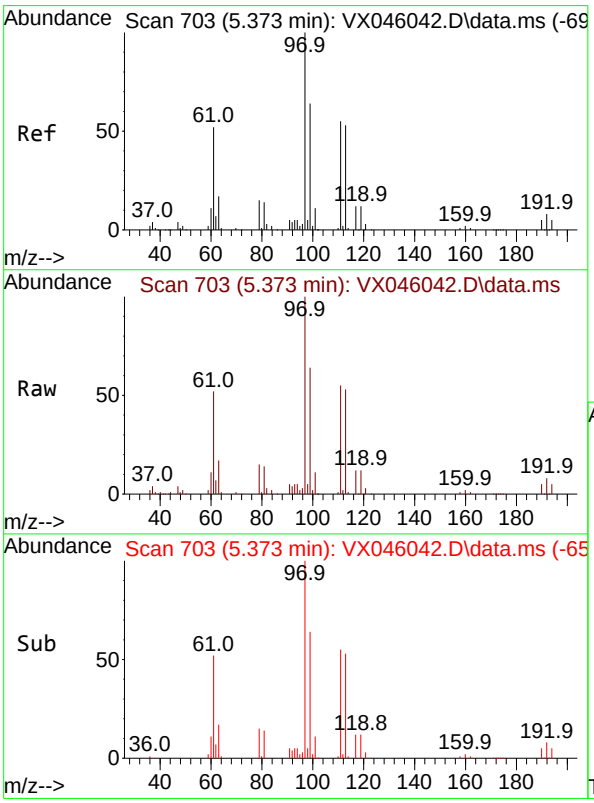
#31
Cyclohexane
Concen: 38.205 ug/l
RT: 5.464 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 56 Resp: 109459

Ion	Ratio	Lower	Upper
56	100		
69	30.5	24.4	36.6
84	83.6	66.9	100.3

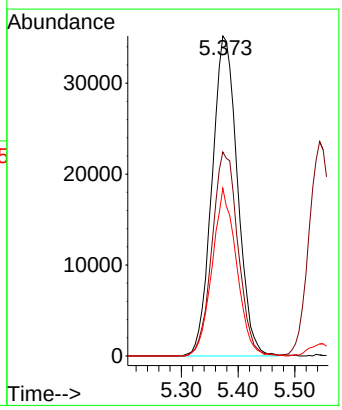


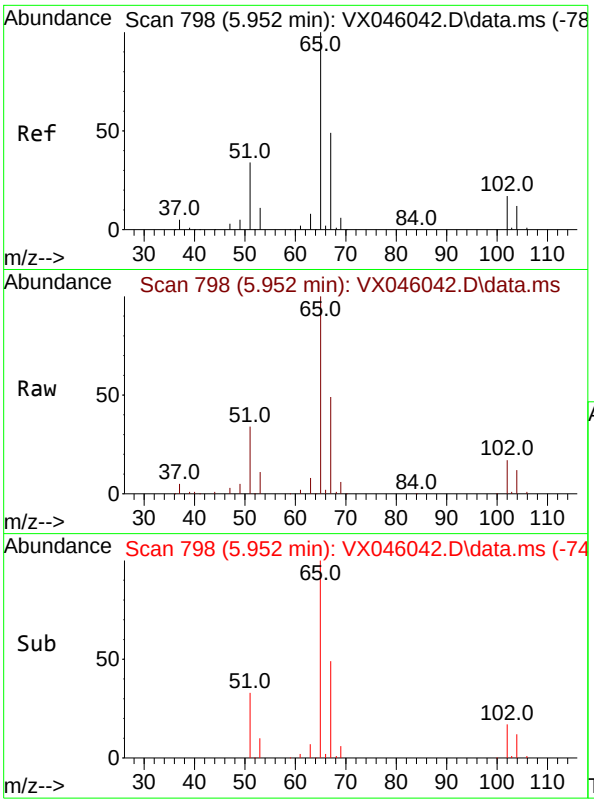


#32
1,1,1-Trichloroethane
Concen: 36.034 ug/l
RT: 5.373 min Scan# 703
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 97 Resp: 109781

Ion	Ratio	Lower	Upper
97	100		
99	64.7	51.8	77.6
61	50.1	40.1	60.1



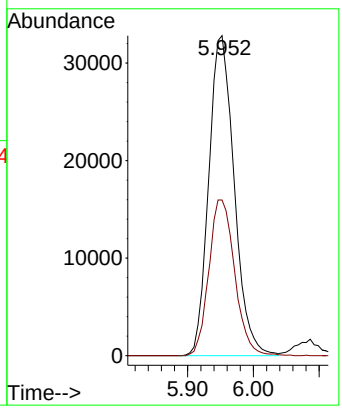


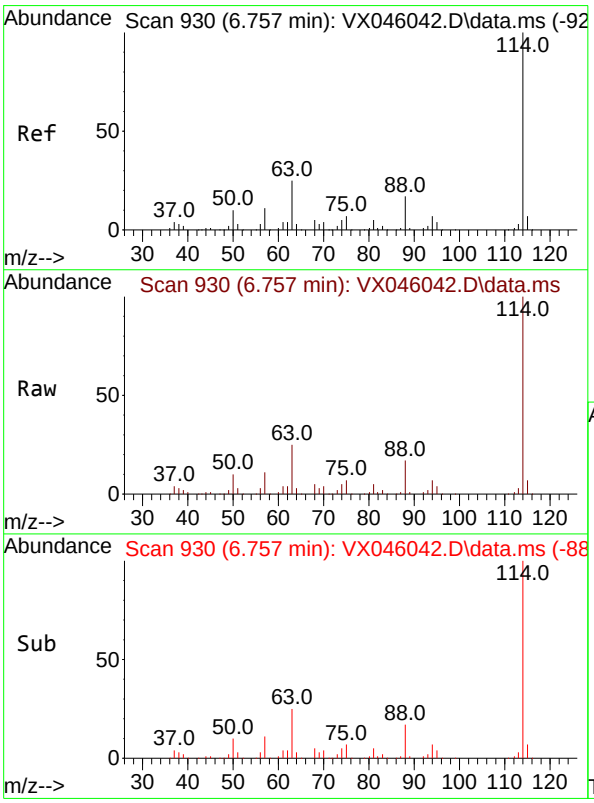
#33
1,2-Dichloroethane-d4
Concen: 30.601 ug/l
RT: 5.952 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 65 Resp: 88371

Ion	Ratio	Lower	Upper
65	100		
67	49.5	0.0	99.0

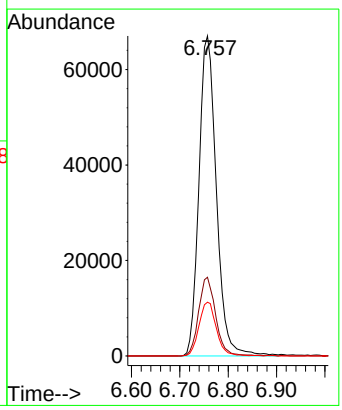


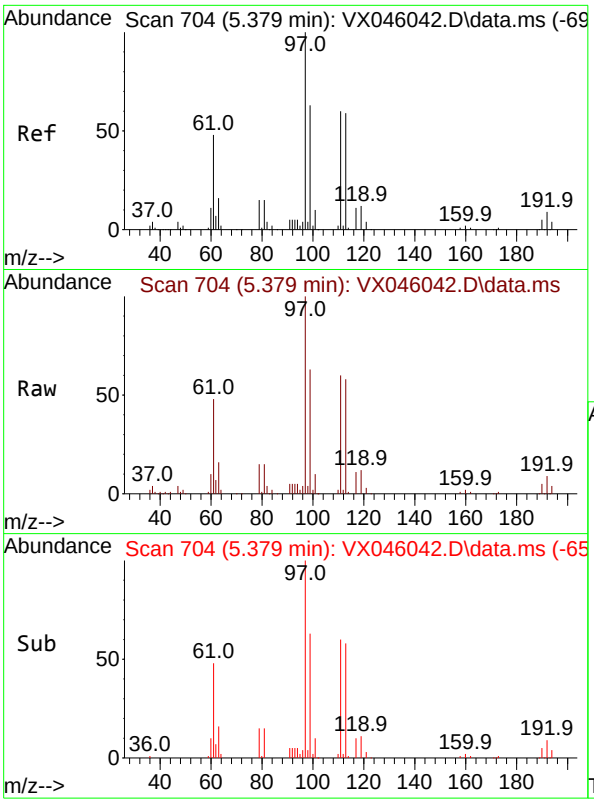


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion:114 Resp: 167947

Ion	Ratio	Lower	Upper
114	100		
63	24.6	0.0	49.2
88	16.8	0.0	33.6



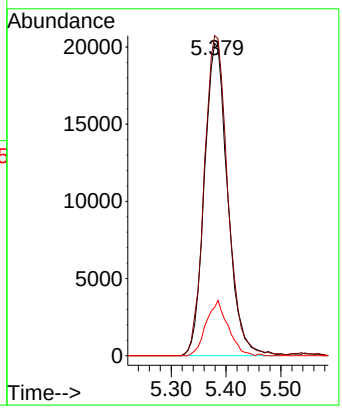


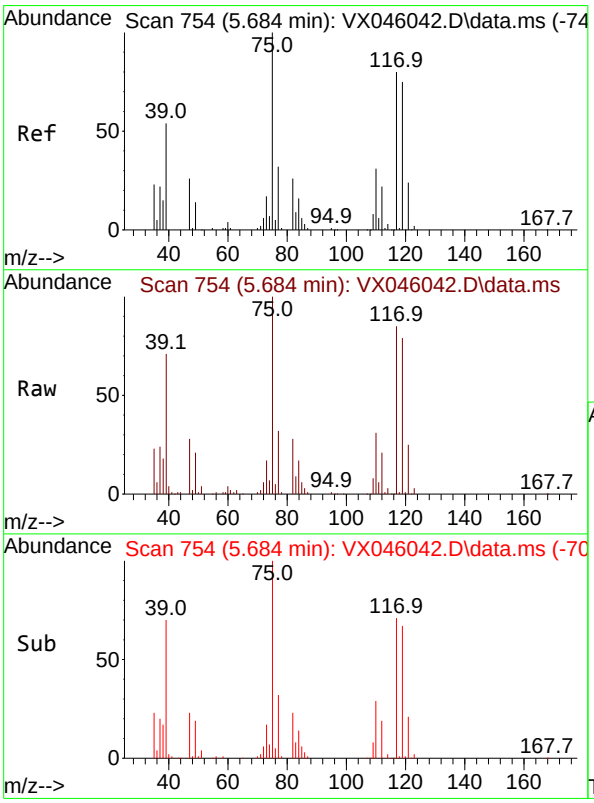
#35
Dibromofluoromethane
Concen: 31.633 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:113 Resp: 59550

Ion	Ratio	Lower	Upper
113	100		
111	103.9	83.1	124.7
192	16.6	13.3	19.9

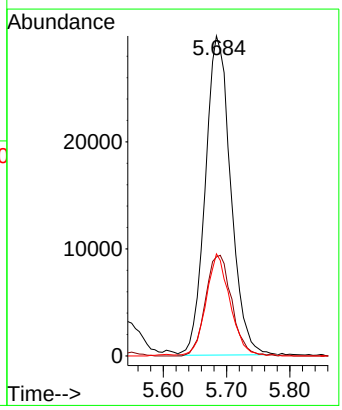


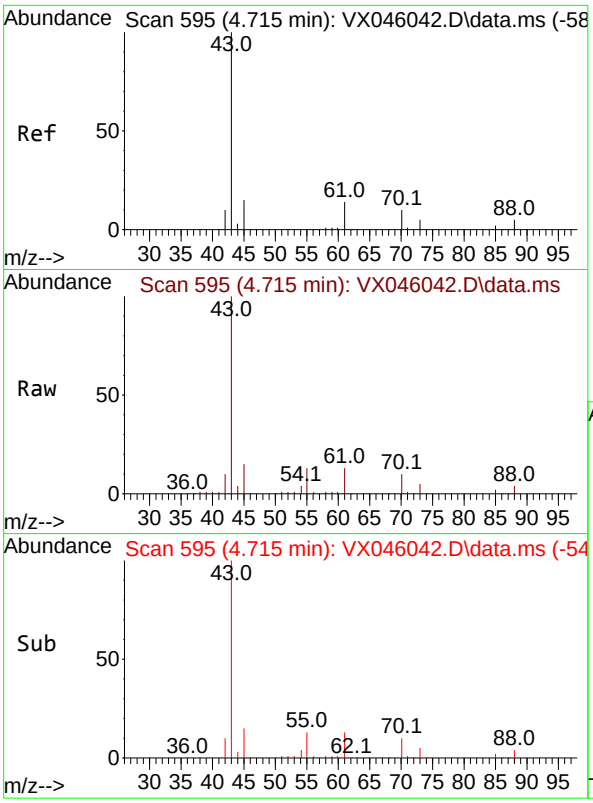


#36
1,1-Dichloropropene
Concen: 38.073 ug/l
RT: 5.684 min Scan# 754
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 75 Resp: 83215

Ion	Ratio	Lower	Upper
75	100		
110	32.6	16.3	48.9
77	30.4	24.3	36.5



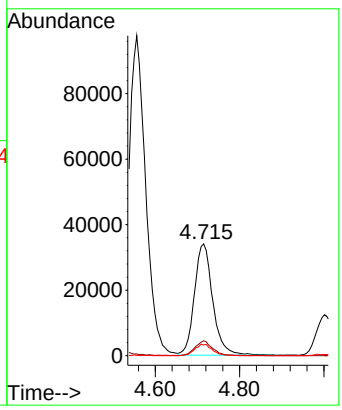


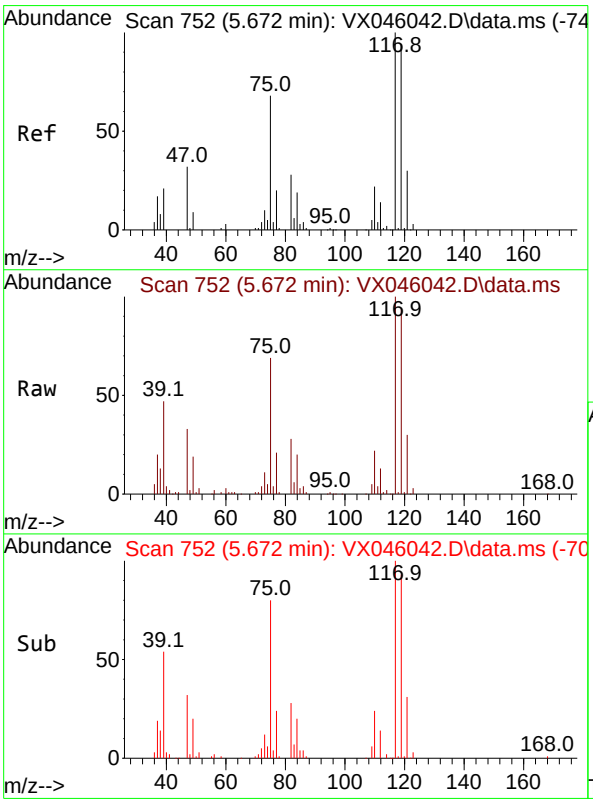
#37
Ethyl Acetate
Concen: 37.394 ug/l
RT: 4.715 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 102537

Ion	Ratio	Lower	Upper
43	100		
61	12.9	10.3	15.5
70	9.9	7.9	11.9

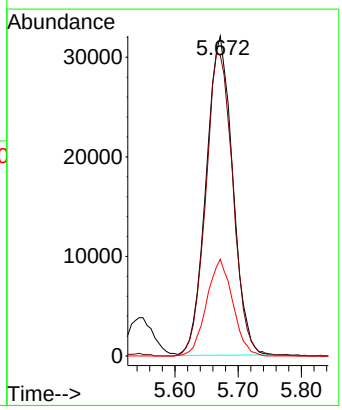


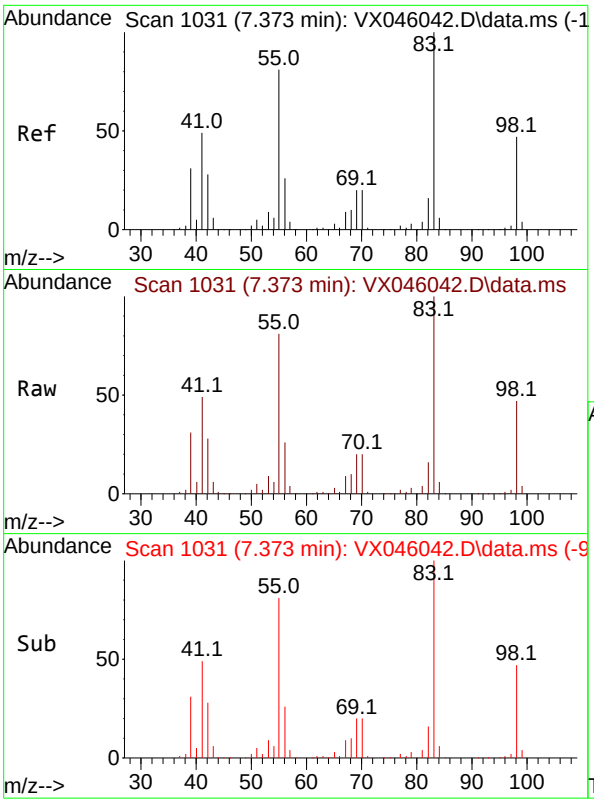


#38
Carbon Tetrachloride
Concen: 37.320 ug/l
RT: 5.672 min Scan# 752
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion:117 Resp: 93712

Ion	Ratio	Lower	Upper
117	100		
119	94.0	75.2	112.8
121	30.3	24.2	36.4



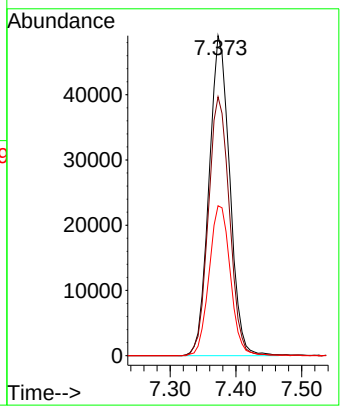


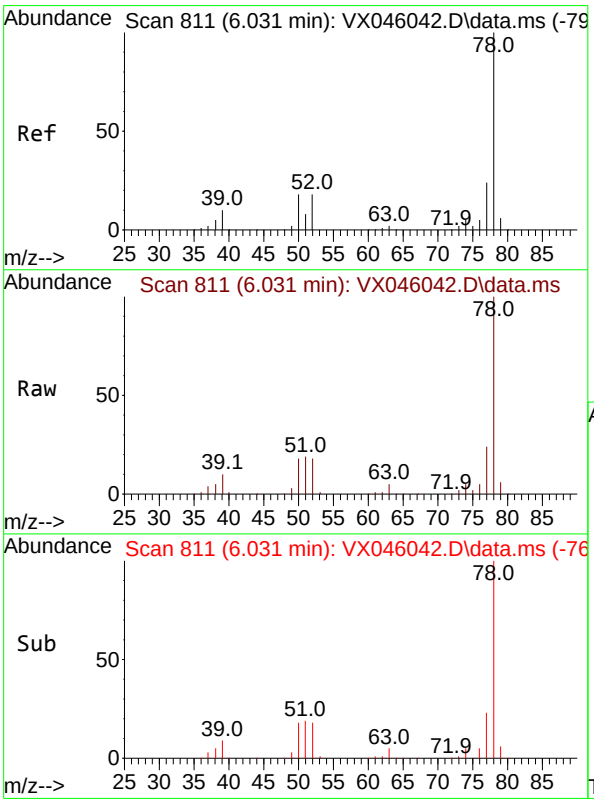
#39
Methylcyclohexane
Concen: 39.307 ug/l
RT: 7.373 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 83 Resp: 107651

Ion	Ratio	Lower	Upper
83	100		
55	80.9	64.7	97.1
98	46.8	37.4	56.2

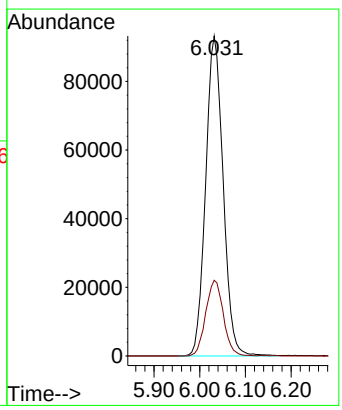


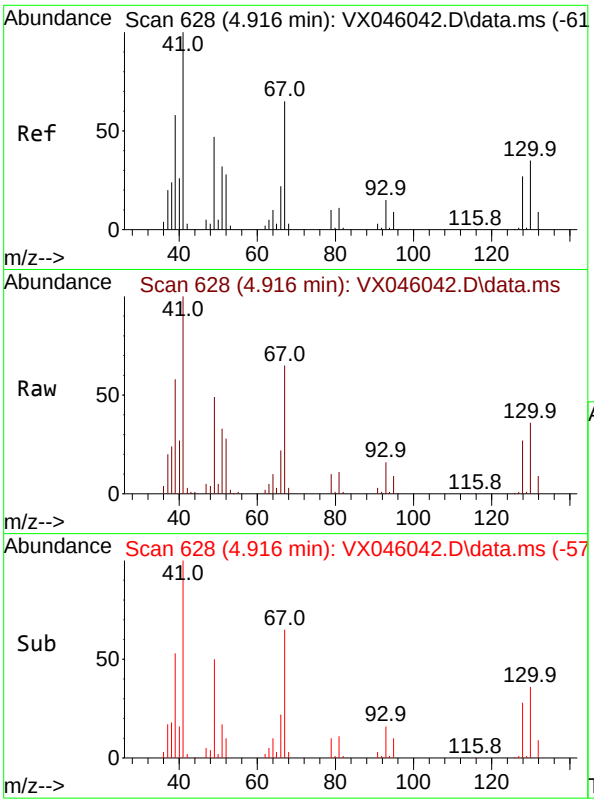


#40
Benzene
Concen: 36.530 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 78 Resp: 247476

Ion	Ratio	Lower	Upper
78	100		
77	23.7	19.0	28.4



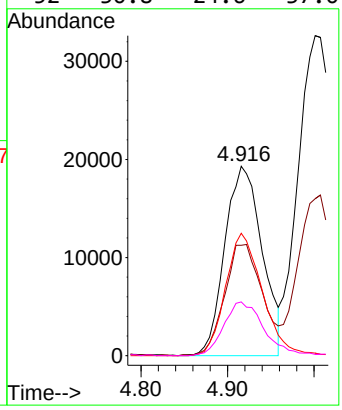


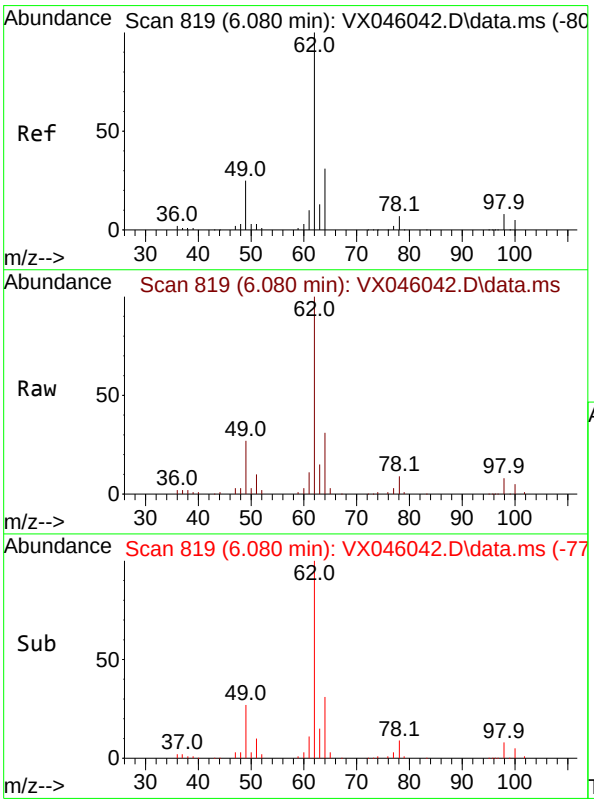
#41
Methacrylonitrile
Concen: 38.123 ug/l
RT: 4.916 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 41 Resp: 58082

Ion	Ratio	Lower	Upper
41	100		
39	59.0	47.2	70.8
67	63.4	50.7	76.1
52	30.8	24.6	37.0

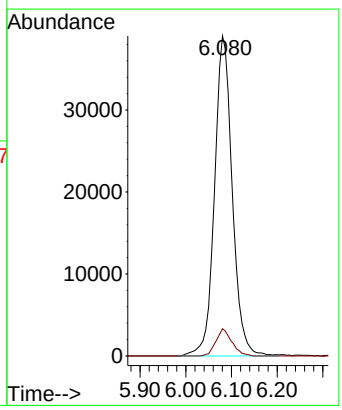


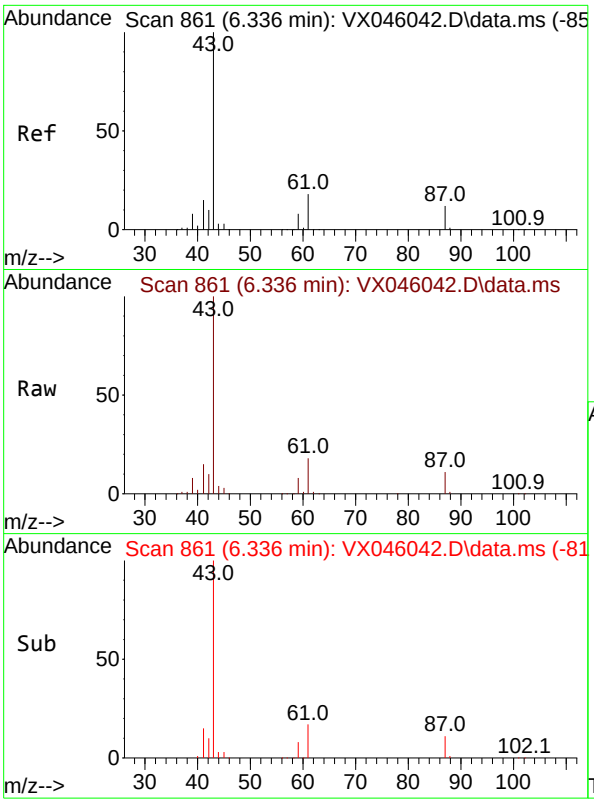


#42
1,2-Dichloroethane
Concen: 37.605 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 62 Resp: 105332

Ion	Ratio	Lower	Upper
62	100		
98	7.6	0.0	15.2



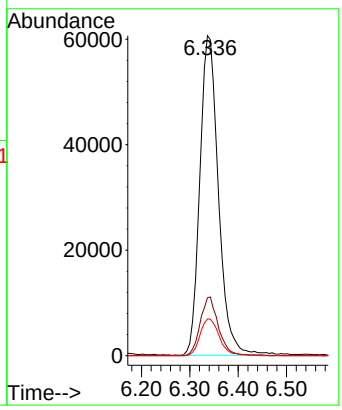


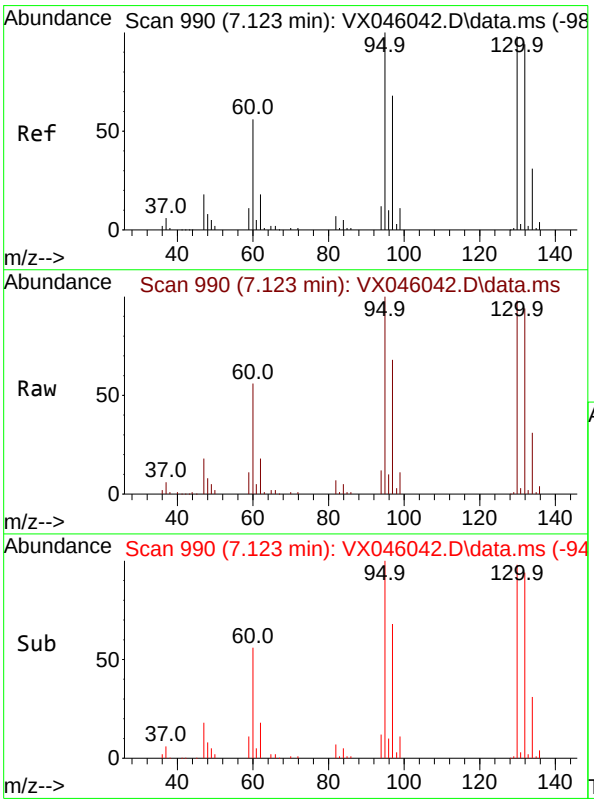
#43
Isopropyl Acetate
Concen: 38.598 ug/l
RT: 6.336 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 161787

Ion	Ratio	Lower	Upper
43	100		
61	17.9	14.3	21.5
87	11.9	9.5	14.3

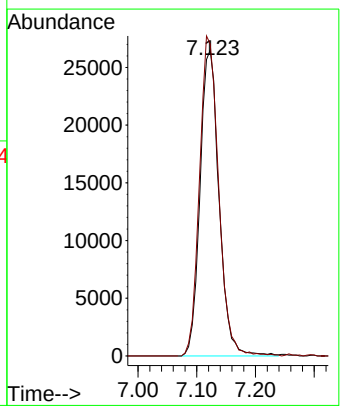


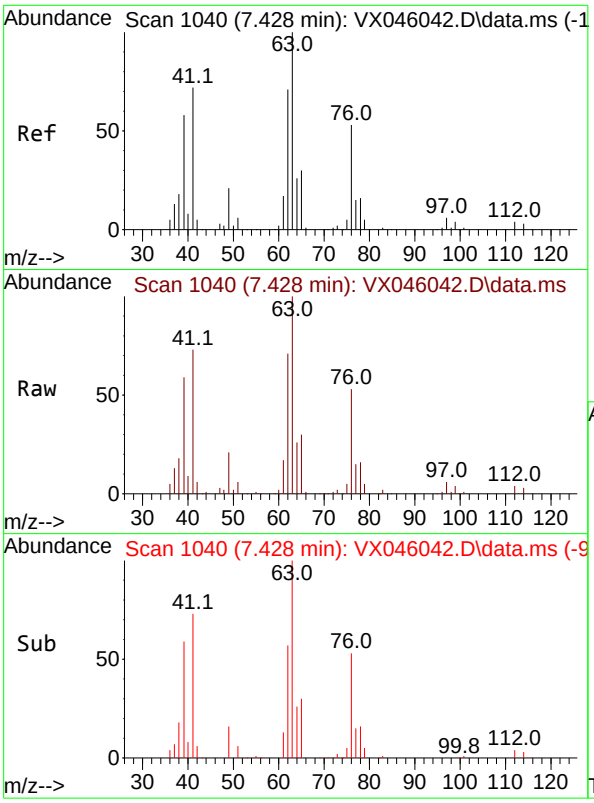


#44
Trichloroethene
Concen: 37.230 ug/l
RT: 7.123 min Scan# 990
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion:130 Resp: 59623

Ion	Ratio	Lower	Upper
130	100		
95	102.1	0.0	204.2



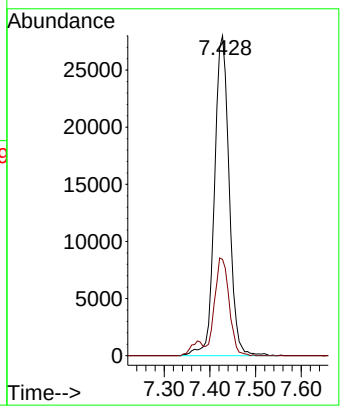


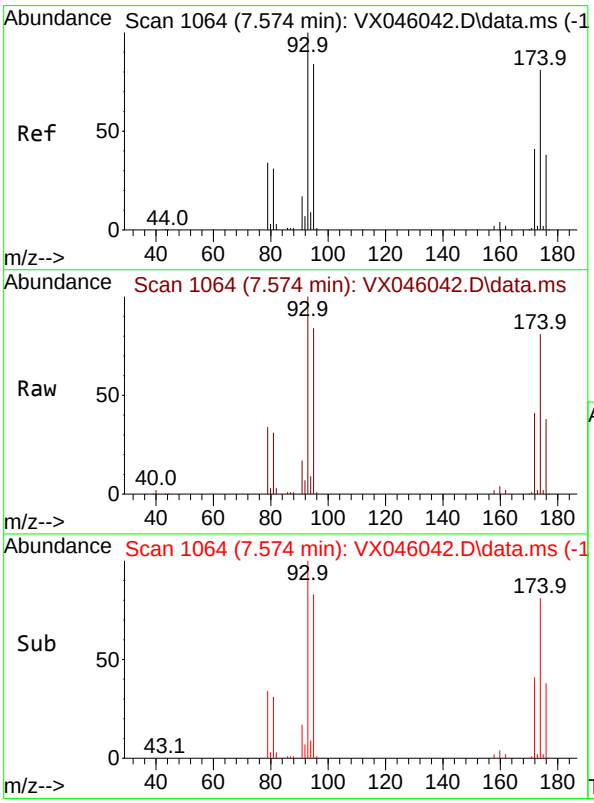
#45
1,2-Dichloropropane
Concen: 37.064 ug/l
RT: 7.428 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 63 Resp: 62387

Ion	Ratio	Lower	Upper
63	100		
65	30.1	24.1	36.1

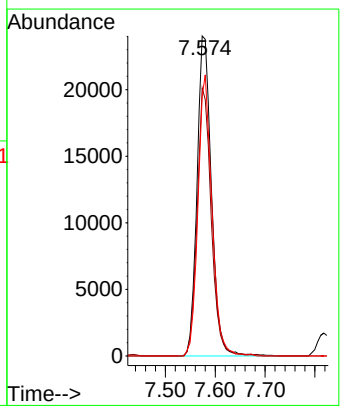


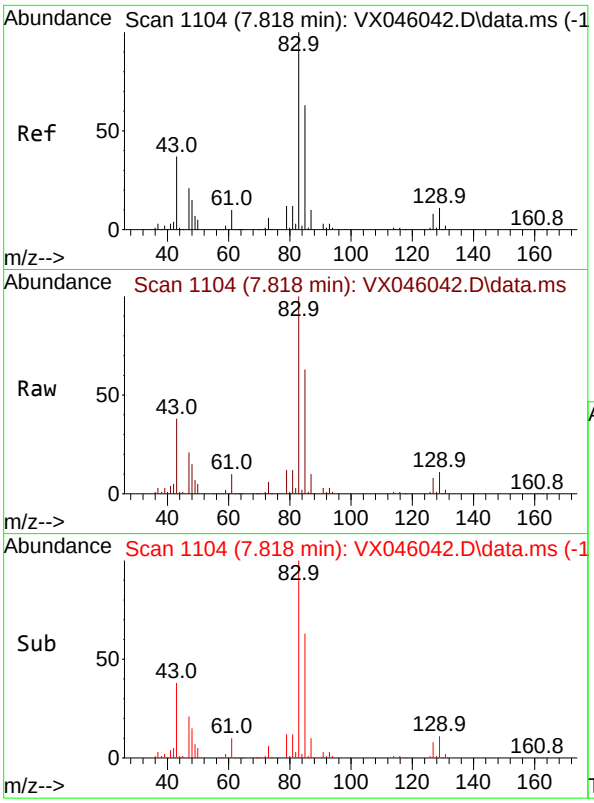


#46
Dibromomethane
Concen: 36.326 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 93 Resp: 48201

Ion	Ratio	Lower	Upper
93	100		
95	82.0	65.6	98.4
174	85.2	68.2	102.2



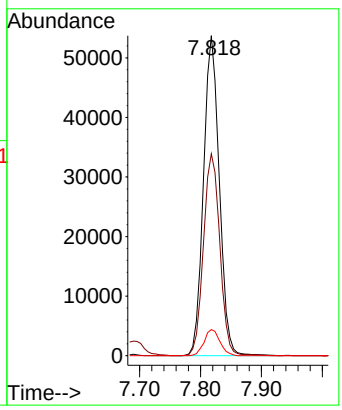


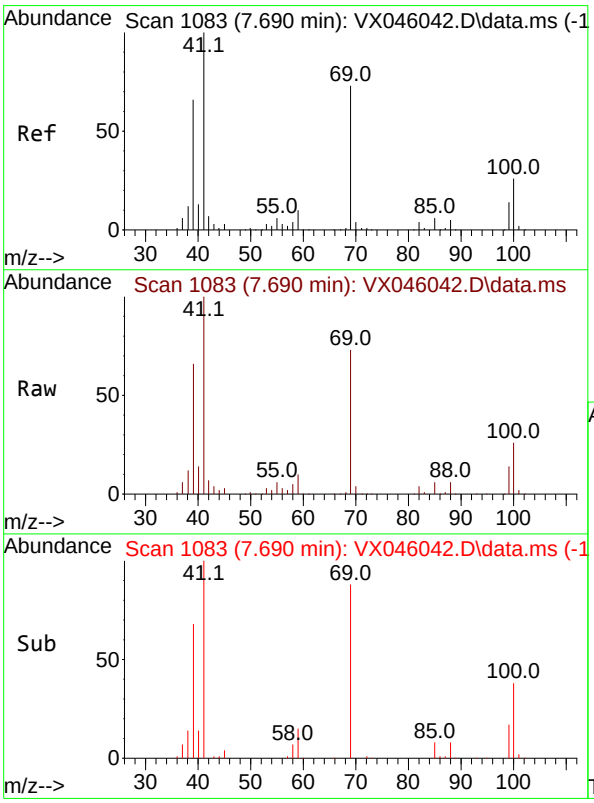
#47
Bromodichloromethane
Concen: 37.685 ug/l
RT: 7.818 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 83 Resp: 96916

Ion	Ratio	Lower	Upper
83	100		
85	63.1	50.5	75.7
127	8.1	6.5	9.7

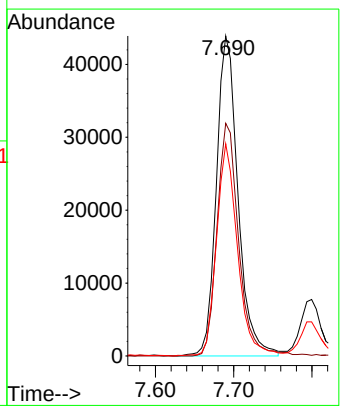


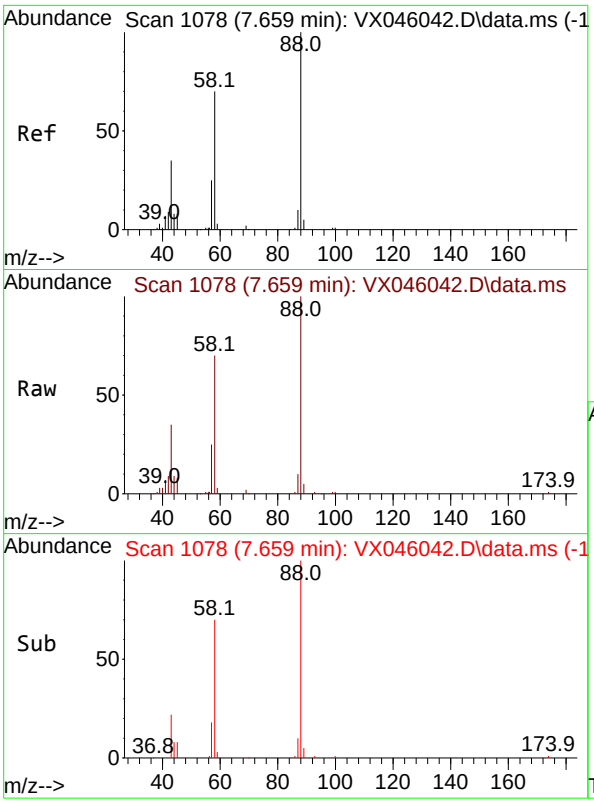


#48
Methyl methacrylate
Concen: 39.157 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 41 Resp: 84277

Ion	Ratio	Lower	Upper
41	100		
69	73.1	58.5	87.7
39	64.6	51.7	77.5



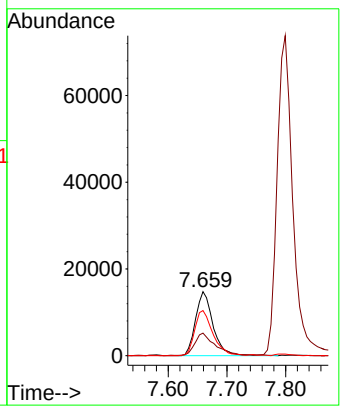


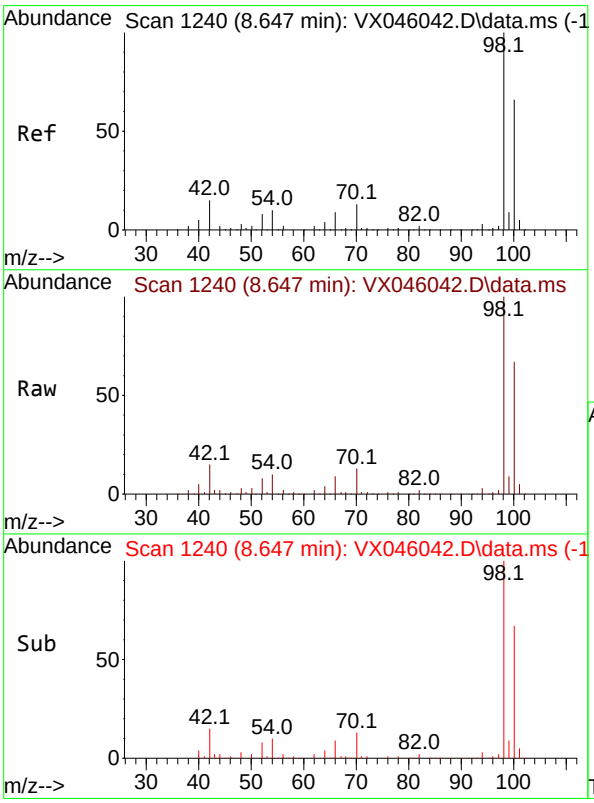
#49
1,4-Dioxane
Concen: 713.477 ug/l
RT: 7.659 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 88 Resp: 30529

Ion	Ratio	Lower	Upper
88	100		
43	41.8	33.4	50.2
58	73.3	58.6	88.0

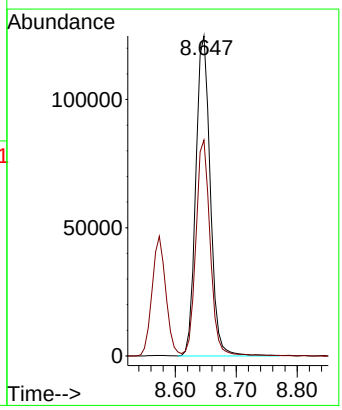


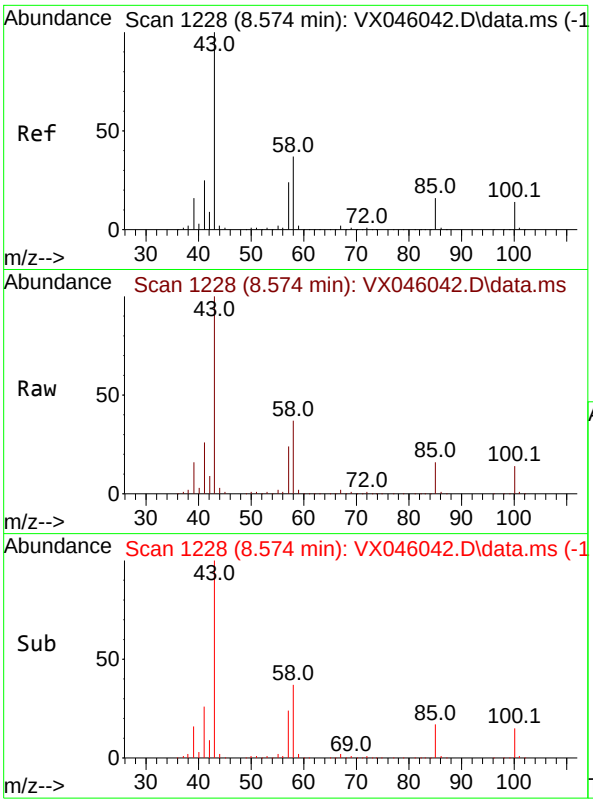


#50
Toluene-d8
Concen: 32.395 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 98 Resp: 205479

Ion	Ratio	Lower	Upper
98	100		
100	66.9	53.5	80.3



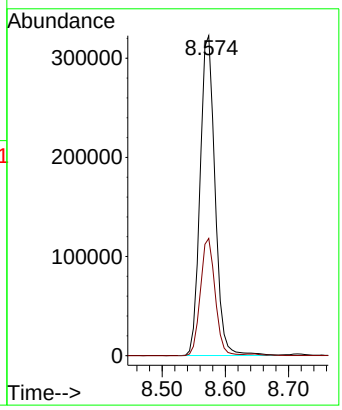


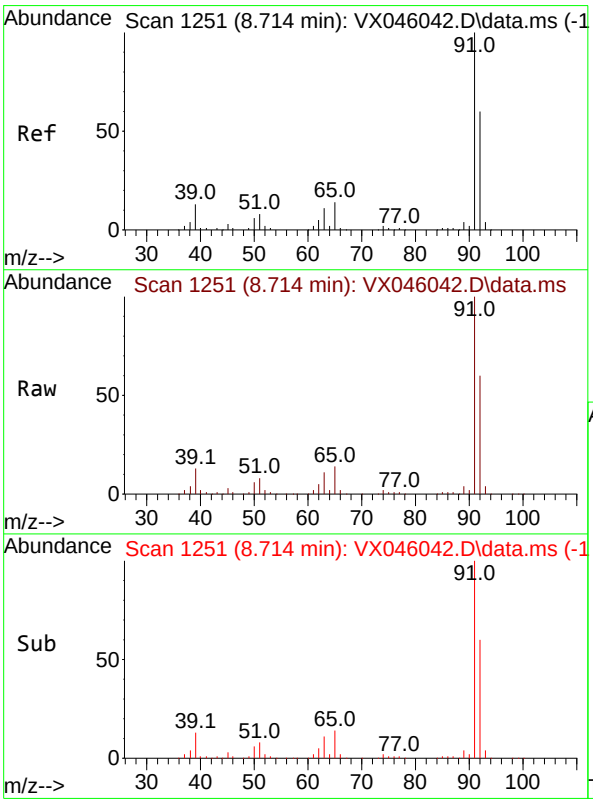
#51
4-Methyl-2-Pentanone
Concen: 193.653 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 532388

Ion	Ratio	Lower	Upper
43	100		
58	36.1	28.9	43.3

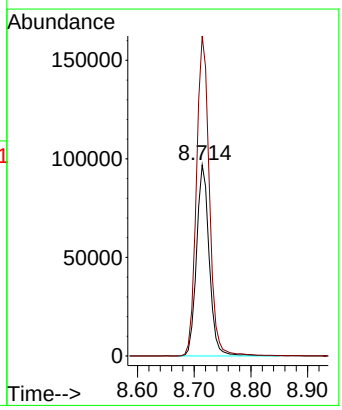


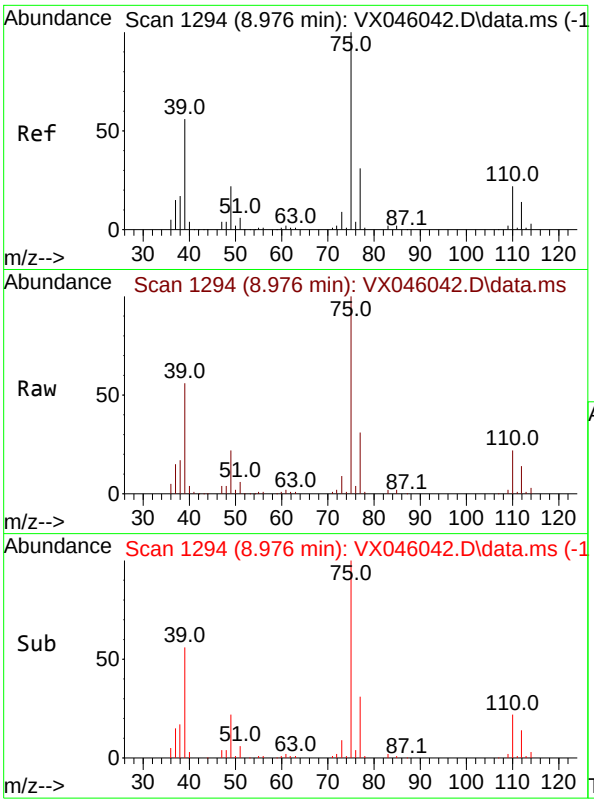


#52
Toluene
Concen: 37.530 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 92 Resp: 150757

Ion	Ratio	Lower	Upper
92	100		
91	170.8	136.6	205.0



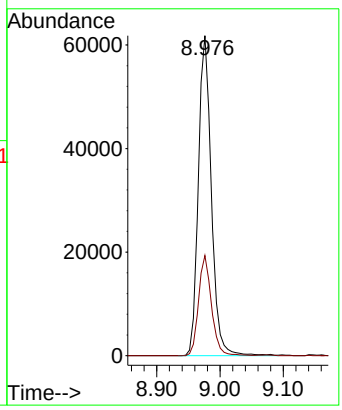


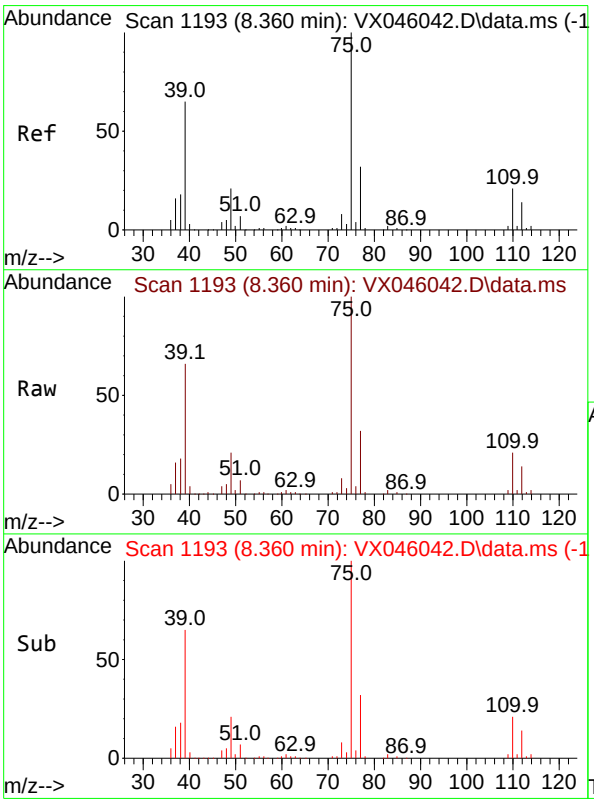
#53
t-1,3-Dichloropropene
Concen: 41.056 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 75 Resp: 88655

Ion	Ratio	Lower	Upper
75	100		
77	31.3	25.0	37.6

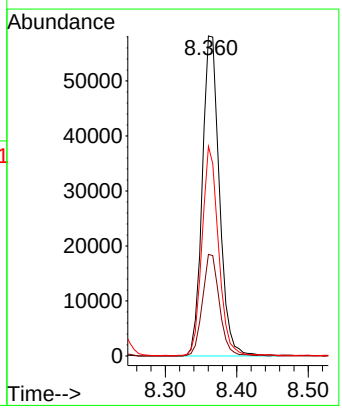


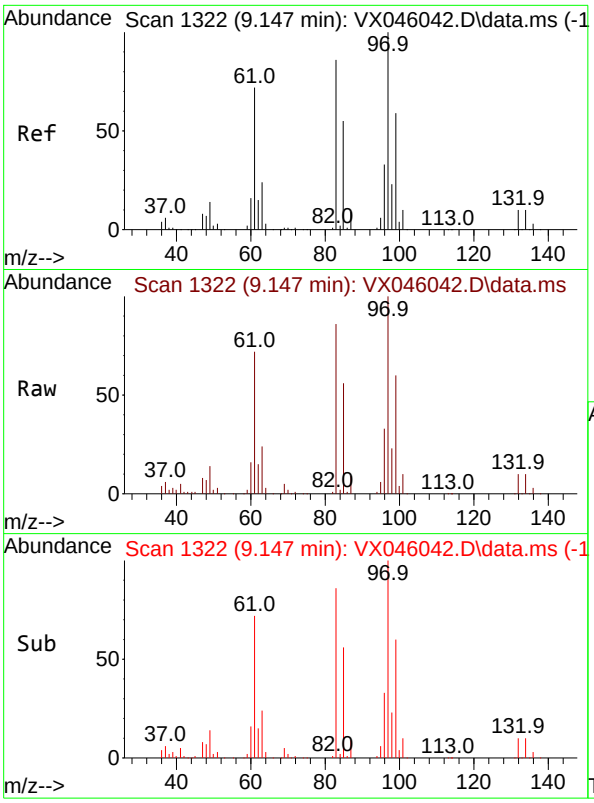


#54
cis-1,3-Dichloropropene
Concen: 38.521 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 75 Resp: 97031

Ion	Ratio	Lower	Upper
75	100		
77	31.7	25.4	38.0
39	65.3	52.2	78.4



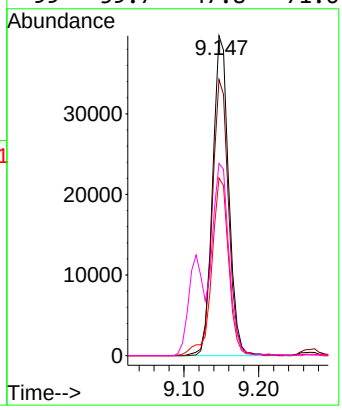


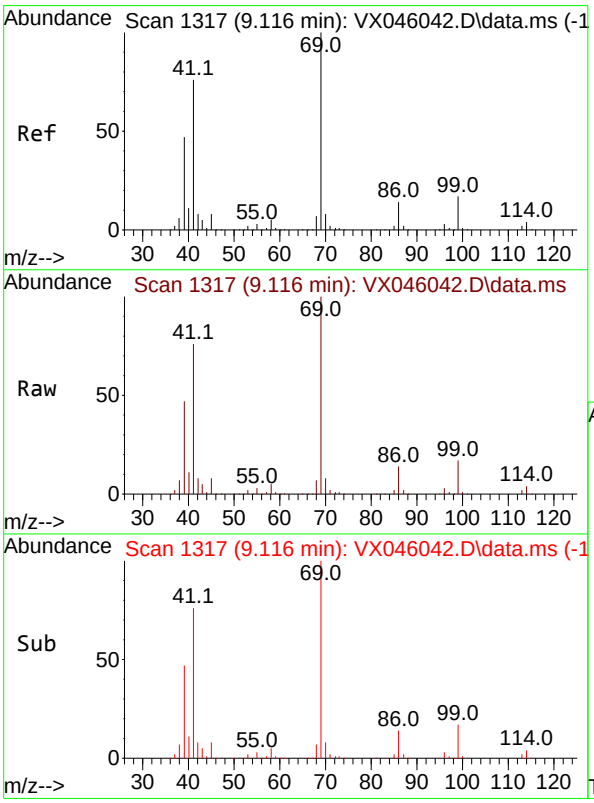
#55
1,1,2-Trichloroethane
Concen: 36.648 ug/l
RT: 9.147 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 97 Resp: 59499

Ion	Ratio	Lower	Upper
97	100		
83	86.3	69.0	103.6
85	55.4	44.3	66.5
99	59.7	47.8	71.6

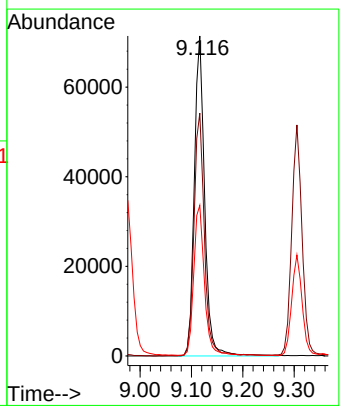


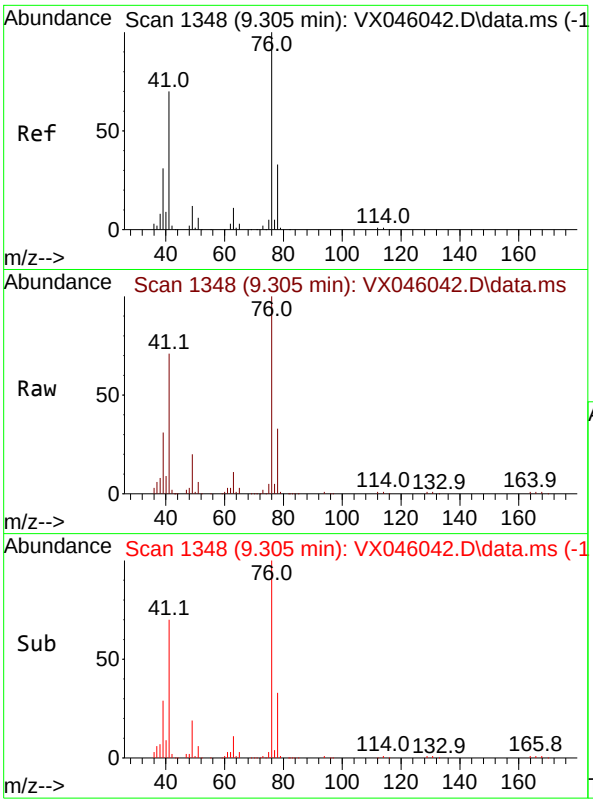


#56
Ethyl methacrylate
Concen: 39.726 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 69 Resp: 99947

Ion	Ratio	Lower	Upper
69	100		
41	76.0	60.8	91.2
39	48.8	39.0	58.6



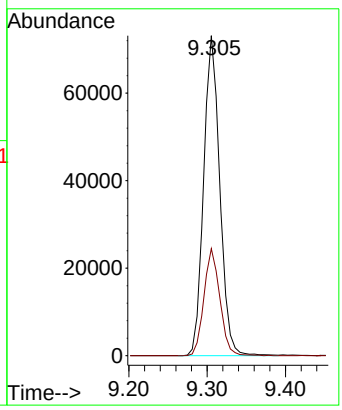


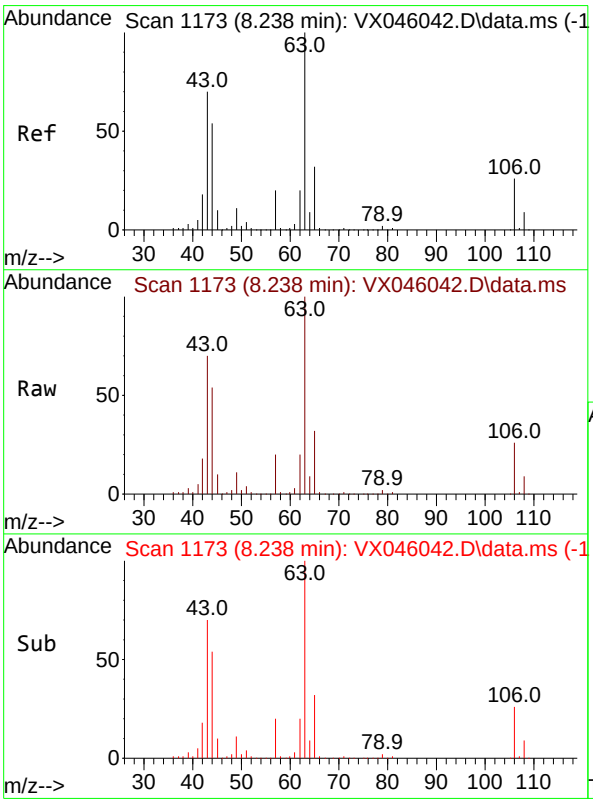
#57
1,3-Dichloropropane
Concen: 36.347 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 76 Resp: 104606

Ion	Ratio	Lower	Upper
76	100		
78	32.9	26.3	39.5

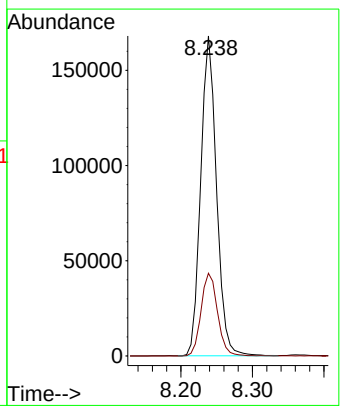


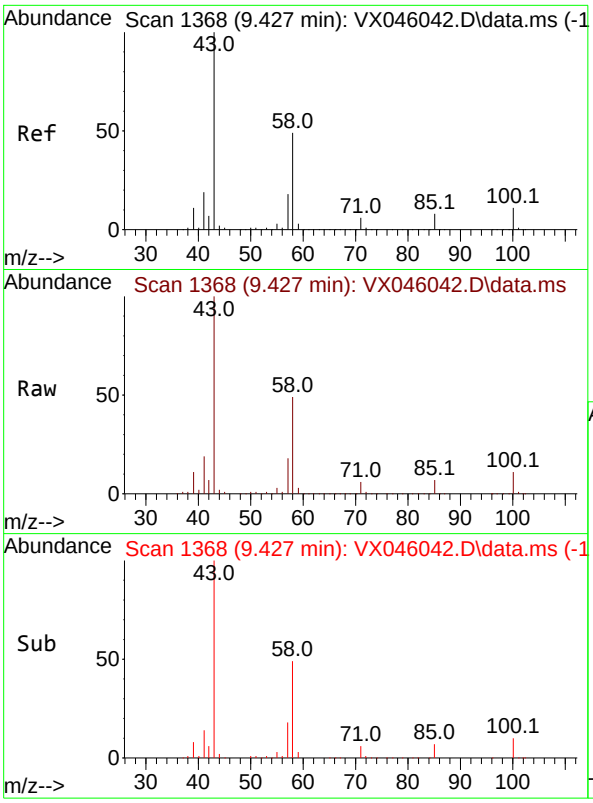


#58
2-Chloroethyl Vinyl ether
Concen: 227.902 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 63 Resp: 257678

Ion	Ratio	Lower	Upper
63	100		
106	26.9	21.5	32.3



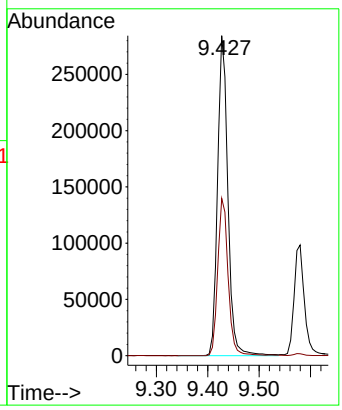


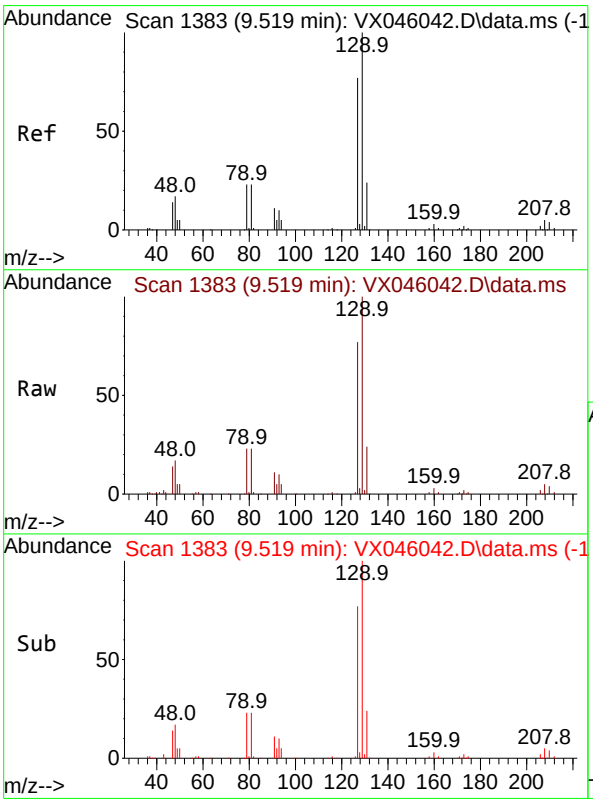
#59
2-Hexanone
Concen: 190.168 ug/l
RT: 9.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 396784

Ion	Ratio	Lower	Upper
43	100		
58	49.7	24.9	74.6

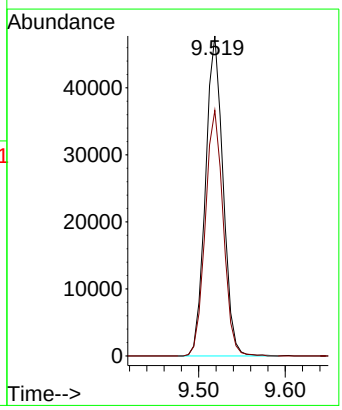


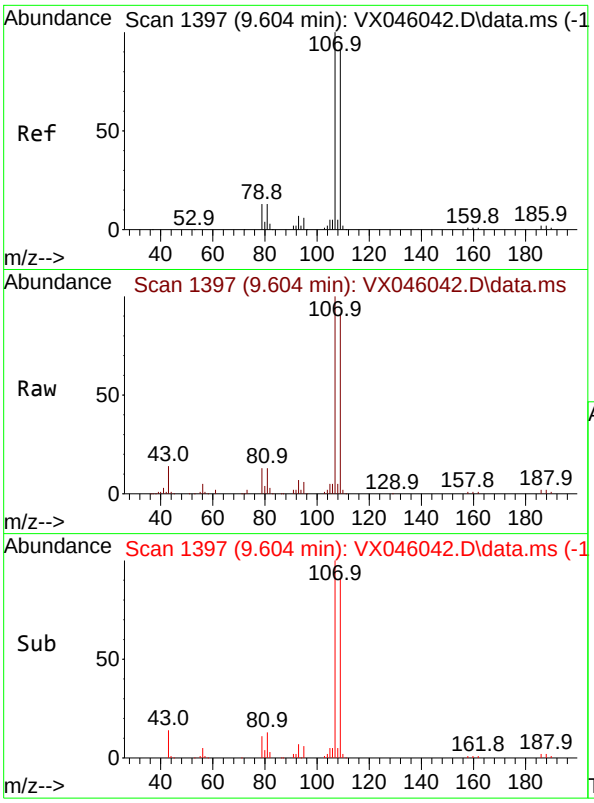


#60
Dibromochloromethane
Concen: 38.027 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion:129 Resp: 67198

Ion	Ratio	Lower	Upper
129	100		
127	78.5	39.3	117.8



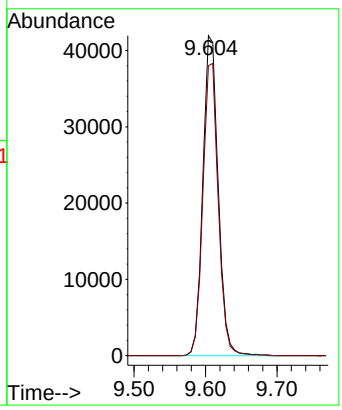


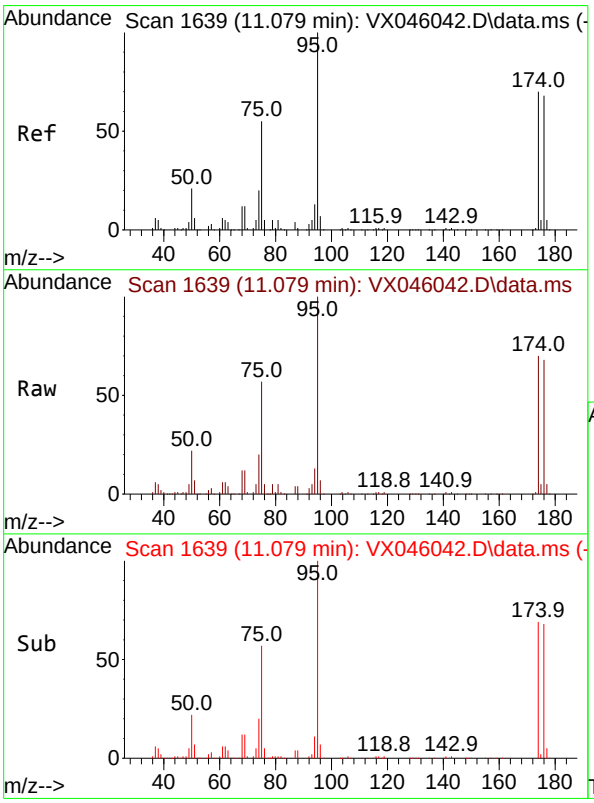
#61
1,2-Dibromoethane
Concen: 37.567 ug/l
RT: 9.604 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:107 Resp: 62633

Ion	Ratio	Lower	Upper
107	100		
109	91.6	73.3	109.9

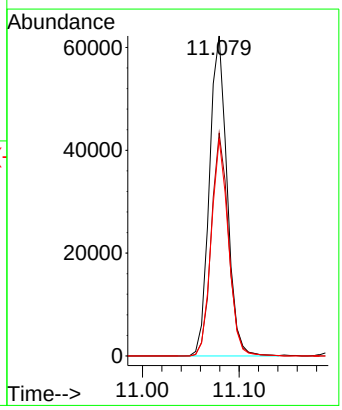


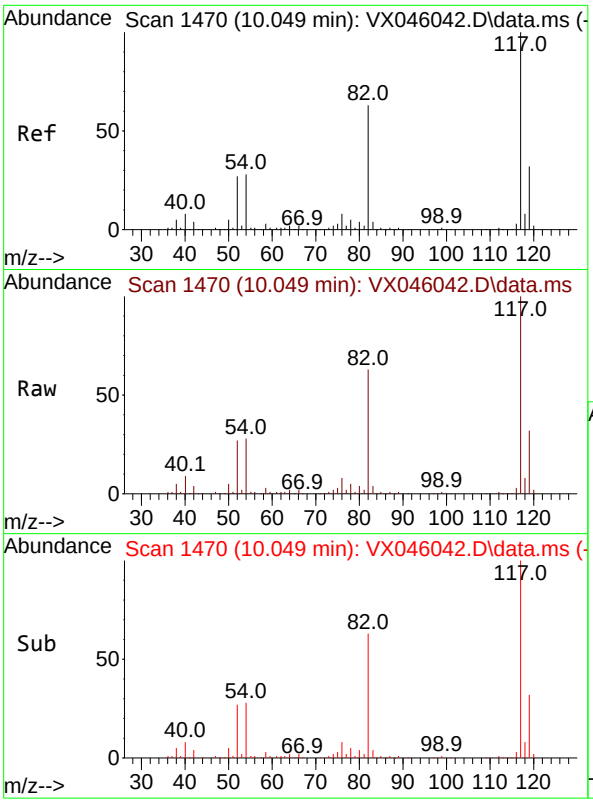


#62
4-Bromofluorobenzene
Concen: 34.229 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 95 Resp: 79012

Ion	Ratio	Lower	Upper
95	100		
174	67.9	0.0	135.8
176	65.7	0.0	131.4



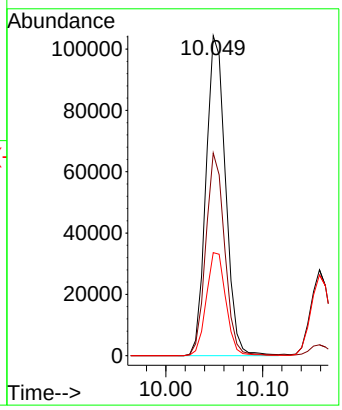


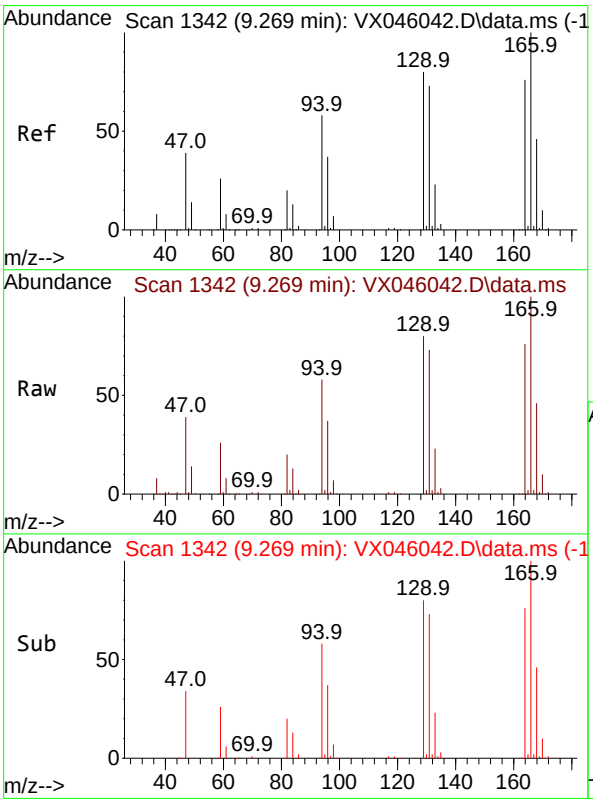
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:117 Resp: 146257

Ion	Ratio	Lower	Upper
117	100		
82	63.3	50.6	76.0
119	32.2	25.8	38.6

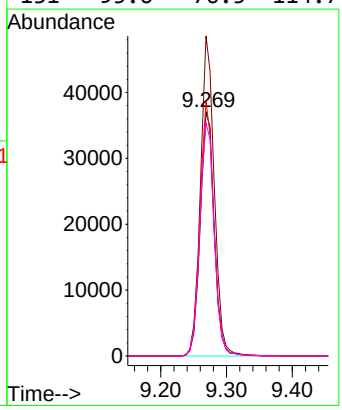


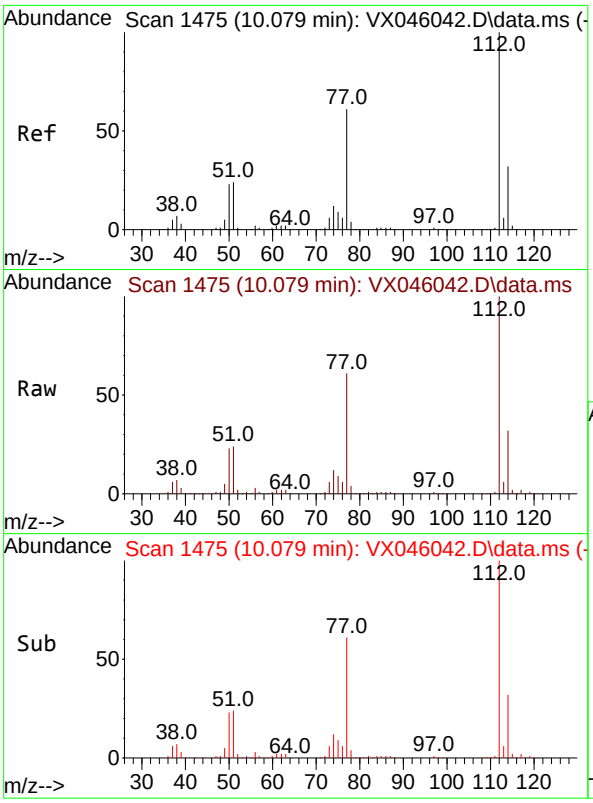


#64
Tetrachloroethene
Concen: 36.726 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion:164 Resp: 54853

Ion	Ratio	Lower	Upper
164	100		
166	131.3	105.0	157.6
129	104.4	83.5	125.3
131	95.6	76.5	114.7



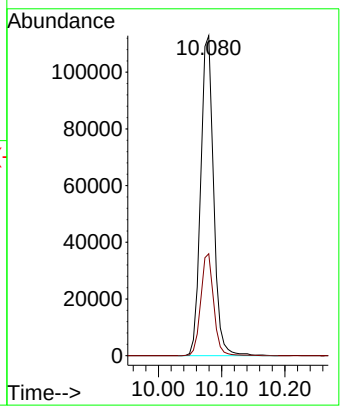


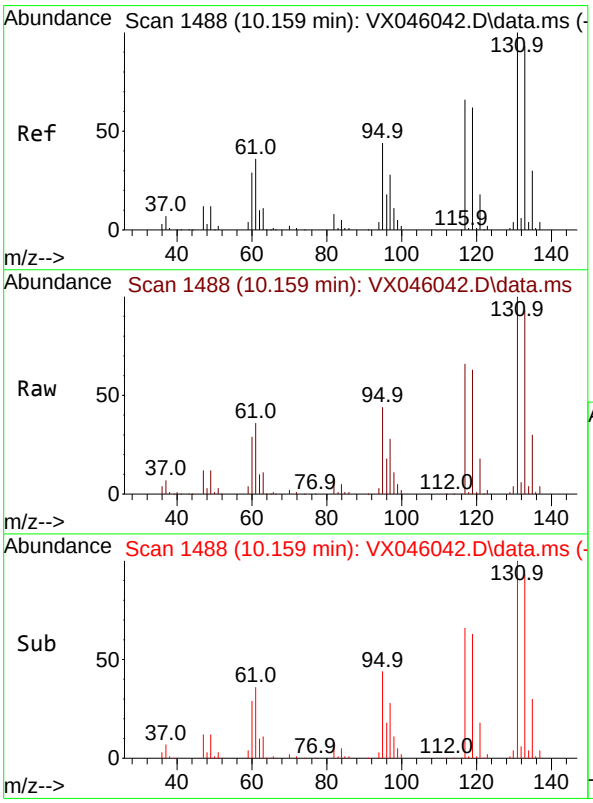
#65
Chlorobenzene
Concen: 35.686 ug/l
RT: 10.079 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:112 Resp: 160600

Ion	Ratio	Lower	Upper
112	100		
114	31.8	25.4	38.2

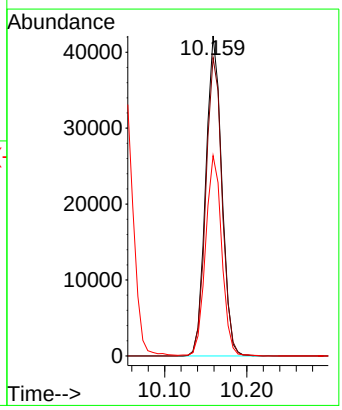


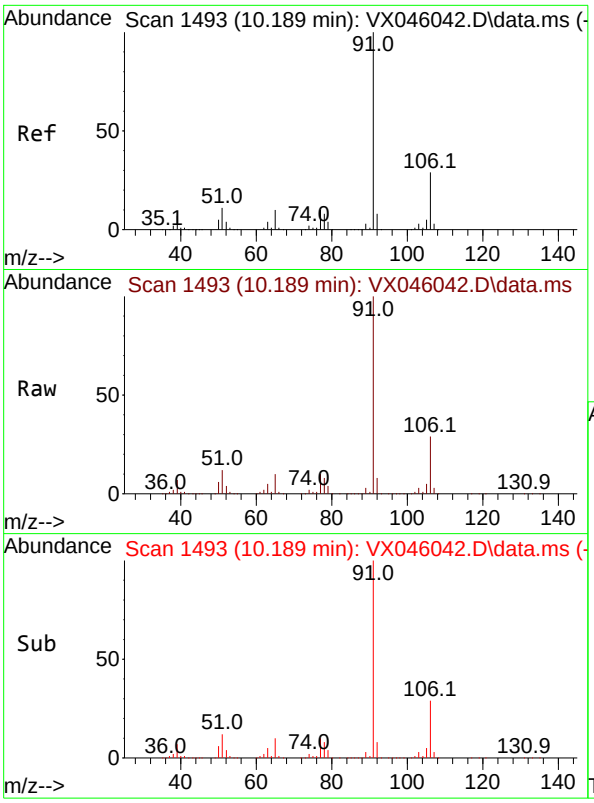


#66
1,1,1,2-Tetrachloroethane
Concen: 38.017 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion:131 Resp: 57066

Ion	Ratio	Lower	Upper
131	100		
133	94.6	47.3	141.9
119	63.3	31.6	95.0



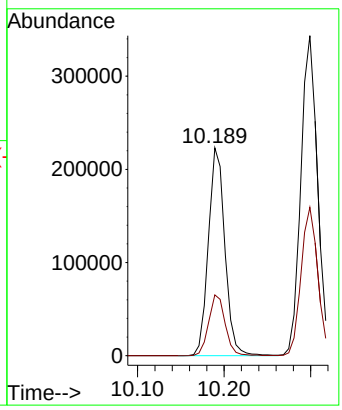


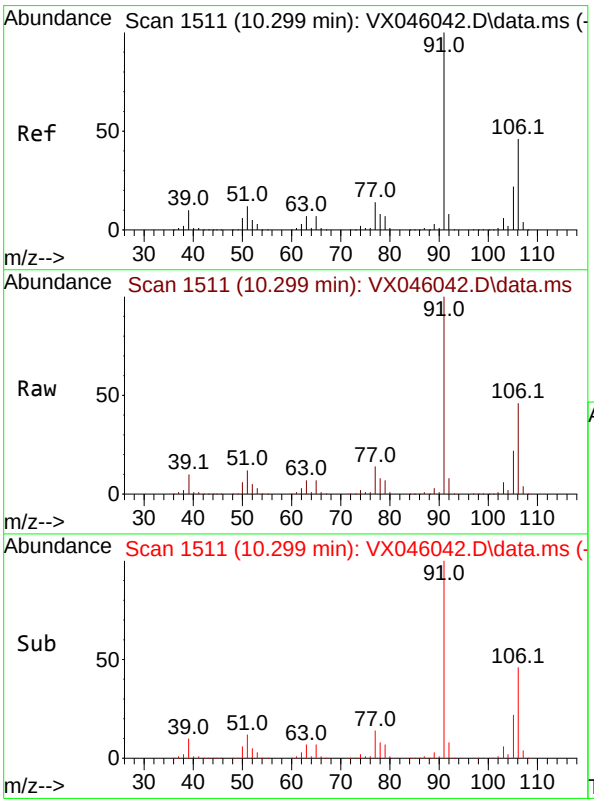
#67
Ethyl Benzene
Concen: 38.543 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 91 Resp: 295712

Ion	Ratio	Lower	Upper
91	100		
106	29.3	23.4	35.2

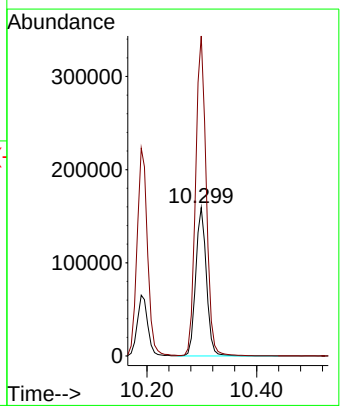


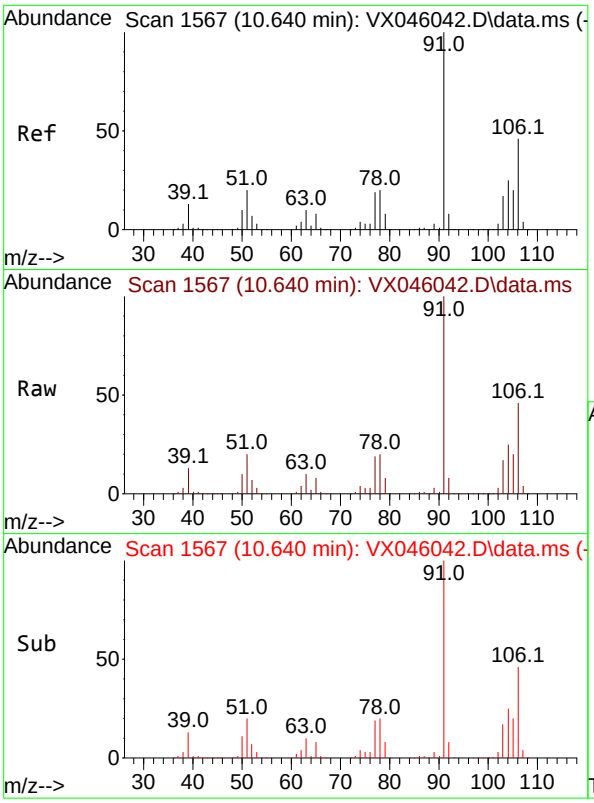


#68
m/p-Xylenes
Concen: 78.142 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion:106 Resp: 216578

Ion	Ratio	Lower	Upper
106	100		
91	214.0	171.2	256.8



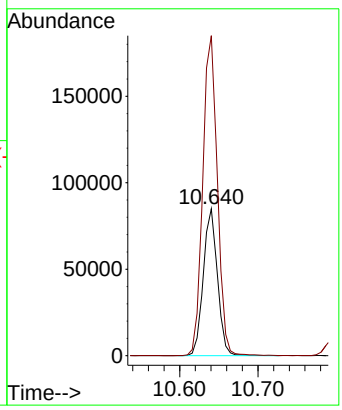


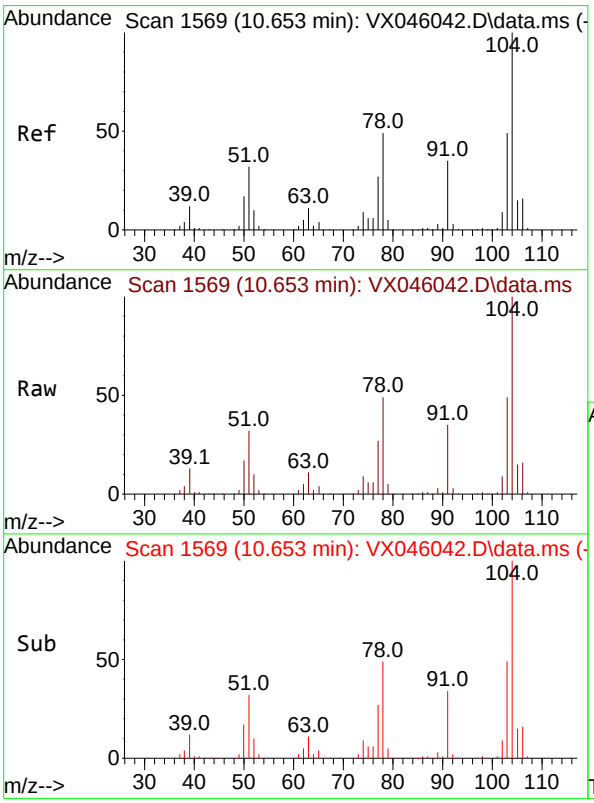
#69
o-Xylene
Concen: 38.064 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:106 Resp: 106335

Ion	Ratio	Lower	Upper
106	100		
91	225.4	112.7	338.1

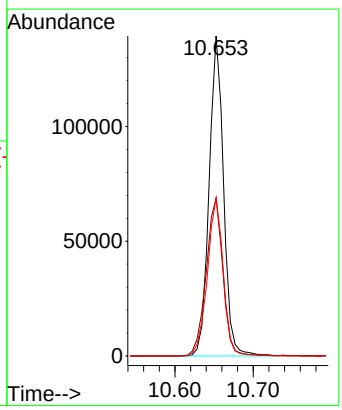


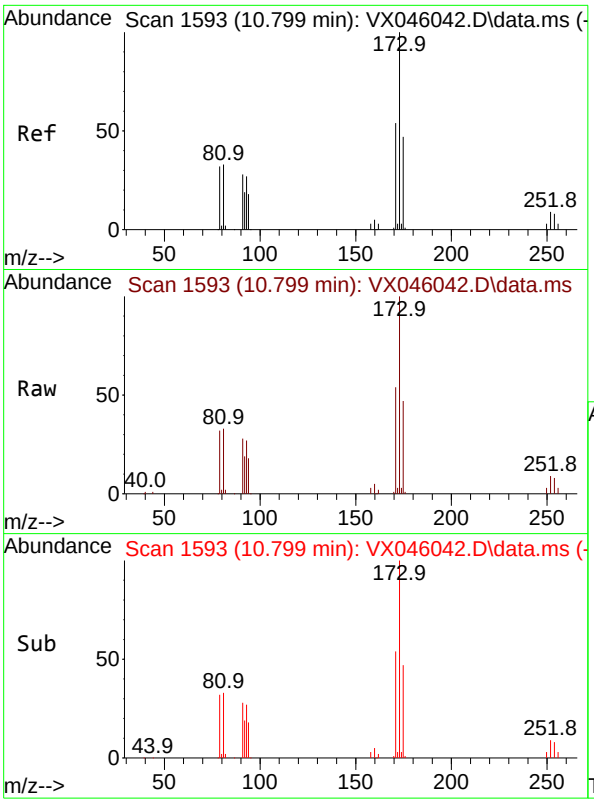


#70
Styrene
Concen: 39.888 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion:104 Resp: 178313

Ion	Ratio	Lower	Upper
104	100		
78	57.1	45.7	68.5
103	54.6	43.7	65.5



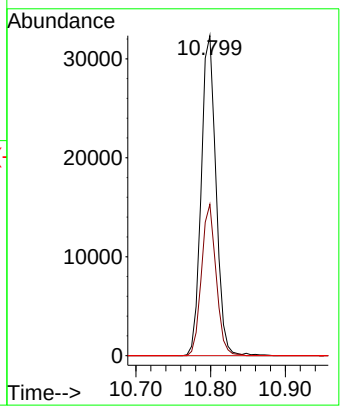


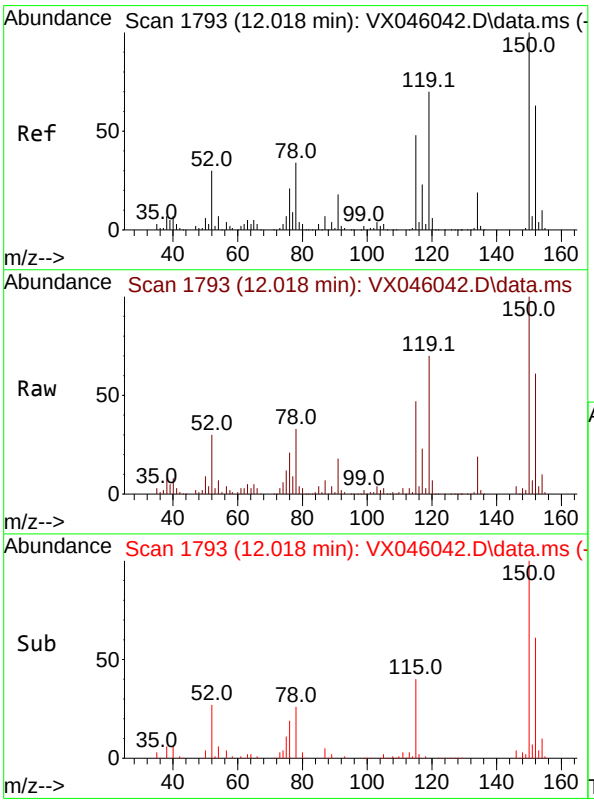
#71
Bromoform
Concen: 39.457 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:173 Resp: 44486

Ion	Ratio	Lower	Upper
173	100		
175	46.7	23.4	70.0
254	0.0	0.0	0.0

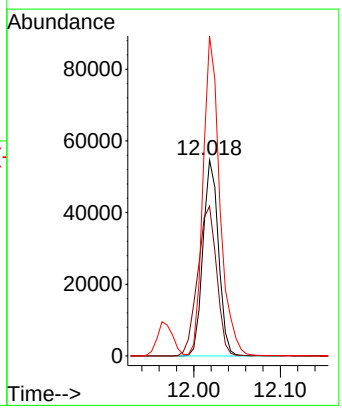


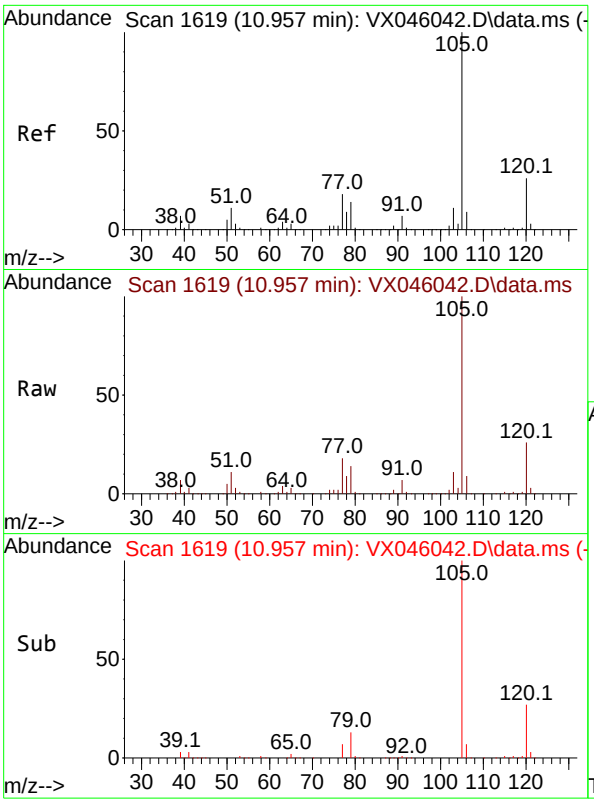


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion:152 Resp: 67976

Ion	Ratio	Lower	Upper
152	100		
115	93.8	46.9	140.7
150	175.5	0.0	351.0



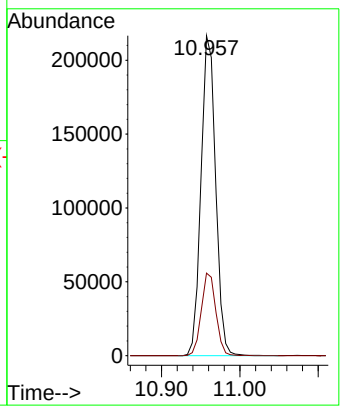


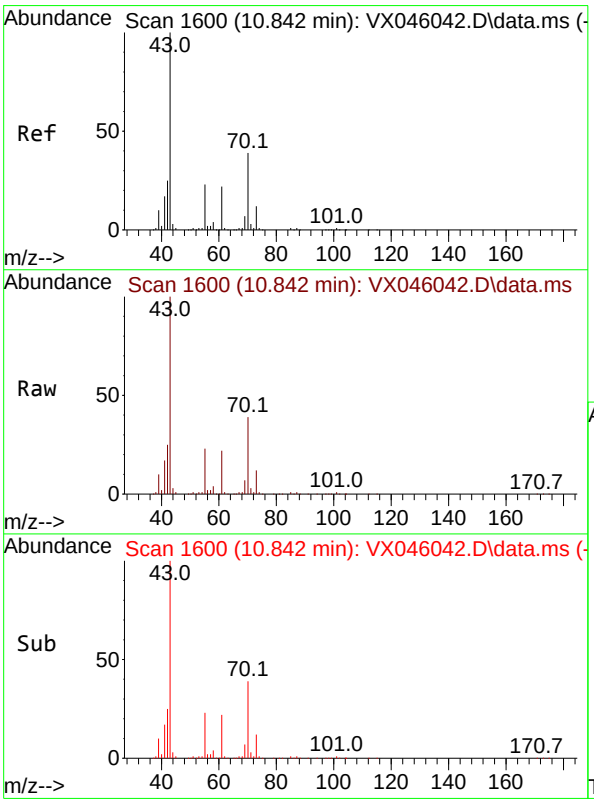
#73
Isopropylbenzene
Concen: 37.865 ug/l
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:105 Resp: 280719

Ion	Ratio	Lower	Upper
105	100		
120	25.6	12.8	38.4

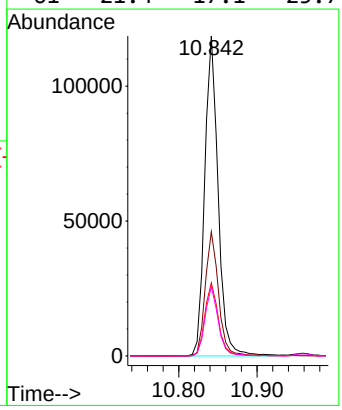


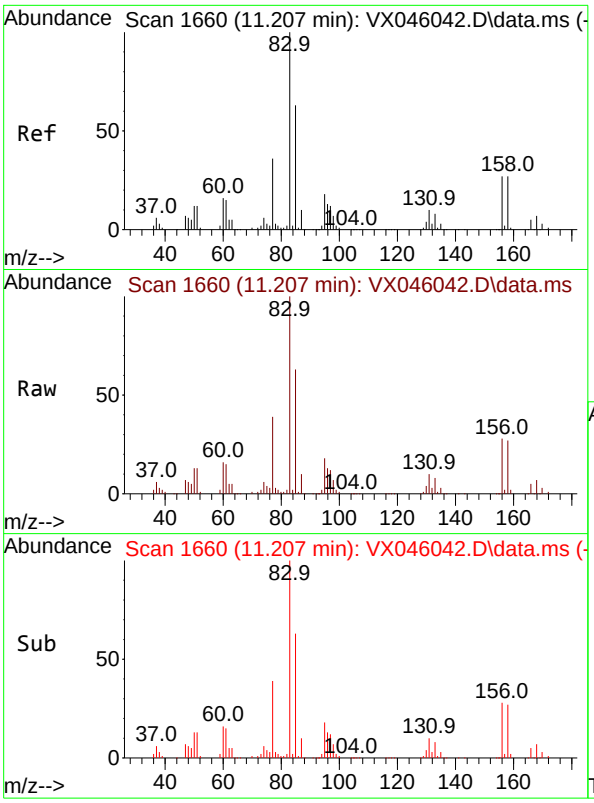


#74
N-amyl acetate
Concen: 38.012 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 43 Resp: 140509

Ion	Ratio	Lower	Upper
43	100		
70	38.6	30.9	46.3
55	23.4	18.7	28.1
61	21.4	17.1	25.7



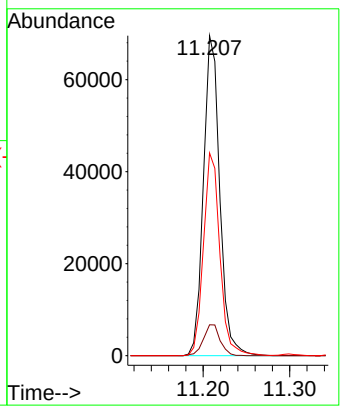


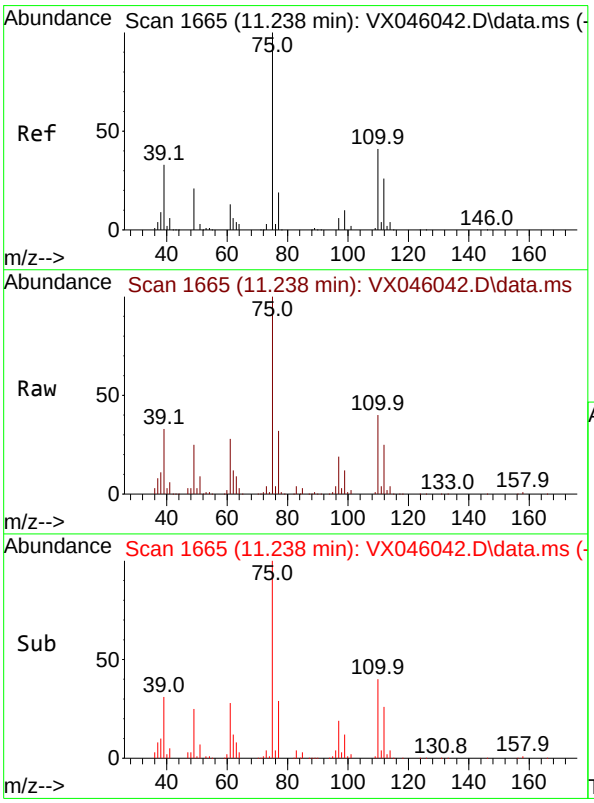
#75
1,1,2,2-Tetrachloroethane
Concen: 34.495 ug/l
RT: 11.207 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 83 Resp: 90975

Ion	Ratio	Lower	Upper
83	100		
131	9.9	5.0	14.9
85	63.8	31.9	95.7

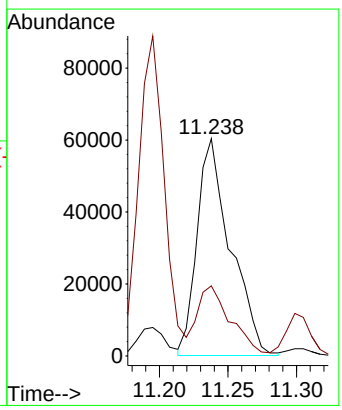


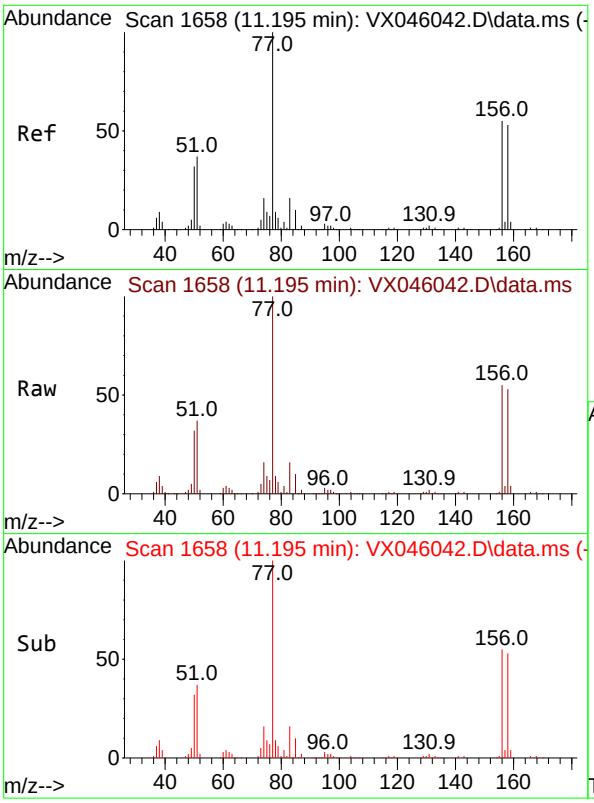


#76
1,2,3-Trichloropropane
Concen: 36.110 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 75 Resp: 102335

Ion	Ratio	Lower	Upper
75	100		
77	32.3	20.5	61.5



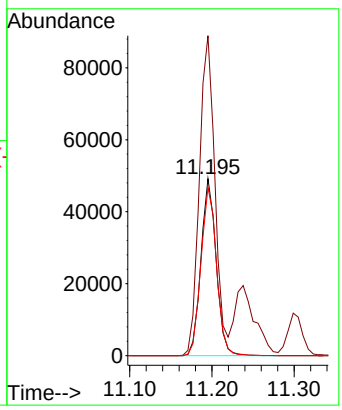


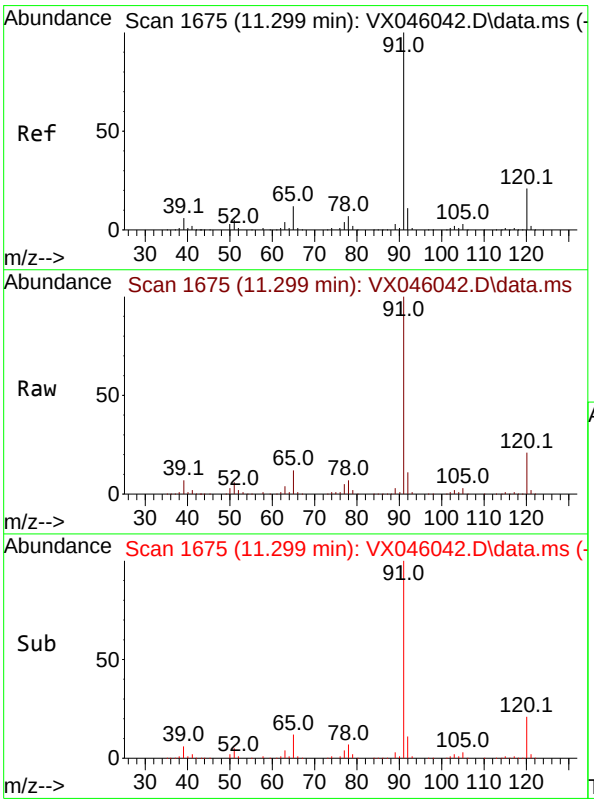
#77
Bromobenzene
Concen: 36.763 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:156 Resp: 63053

Ion	Ratio	Lower	Upper
156	100		
77	185.5	92.8	278.3
158	97.5	48.8	146.3

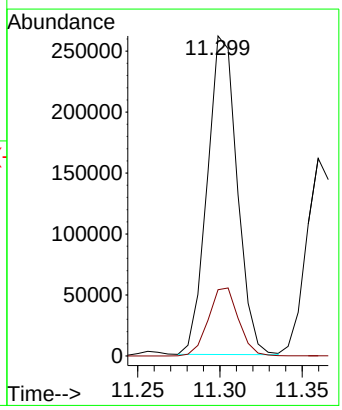


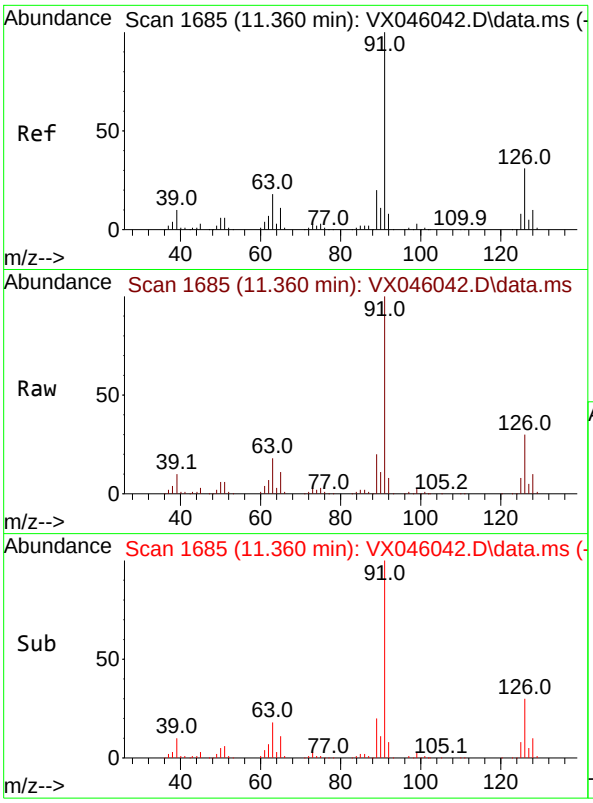


#78
n-propylbenzene
Concen: 39.707 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 91 Resp: 329981

Ion	Ratio	Lower	Upper
91	100		
120	21.6	10.8	32.4



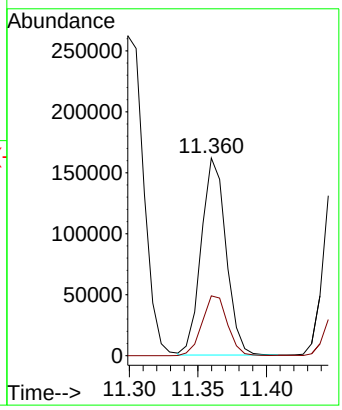


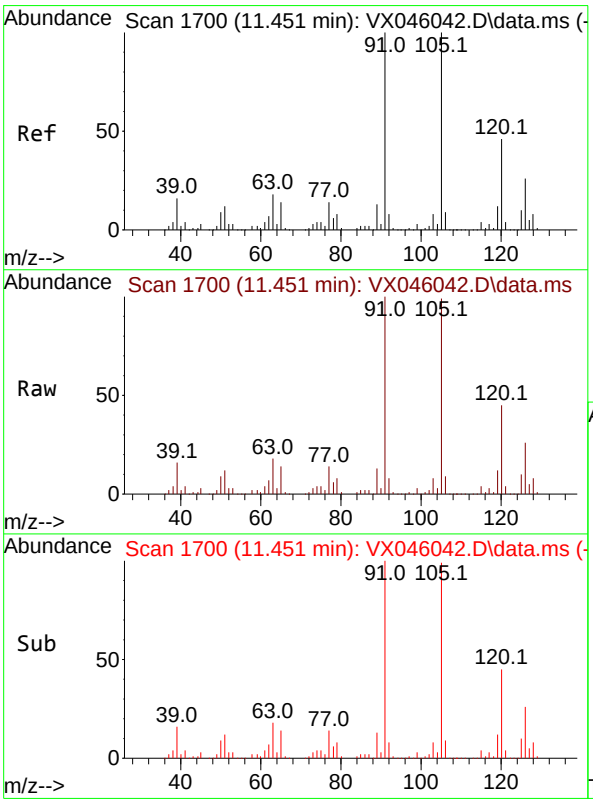
#79
2-Chlorotoluene
Concen: 36.336 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 91 Resp: 203509

Ion	Ratio	Lower	Upper
91	100		
126	31.1	15.6	46.7

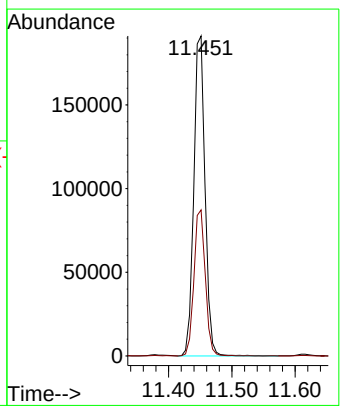


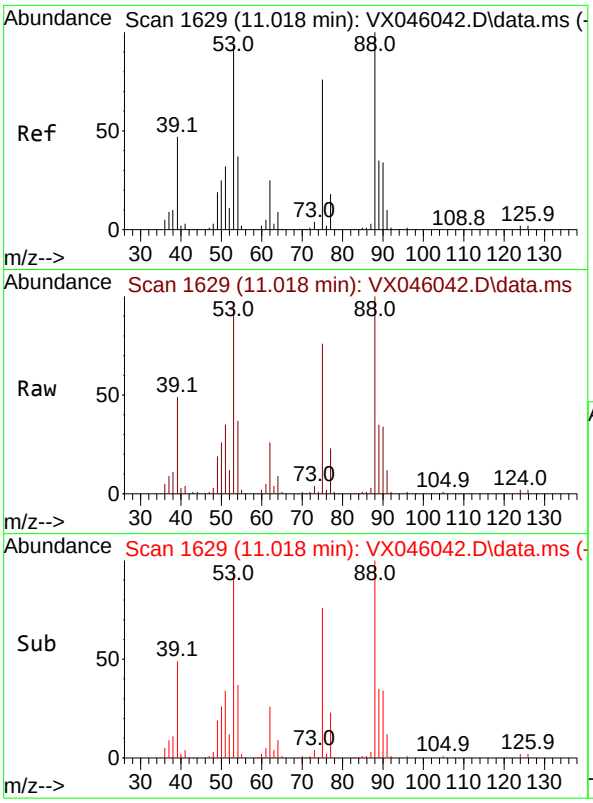


#80
1,3,5-Trimethylbenzene
Concen: 38.516 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion:105 Resp: 237066

Ion	Ratio	Lower	Upper
105	100		
120	46.1	23.1	69.2



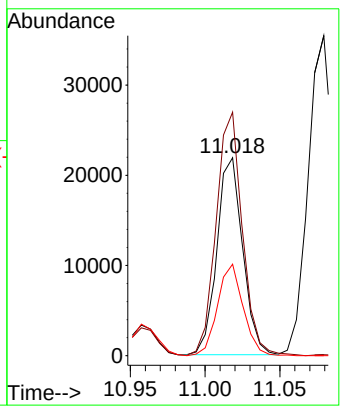


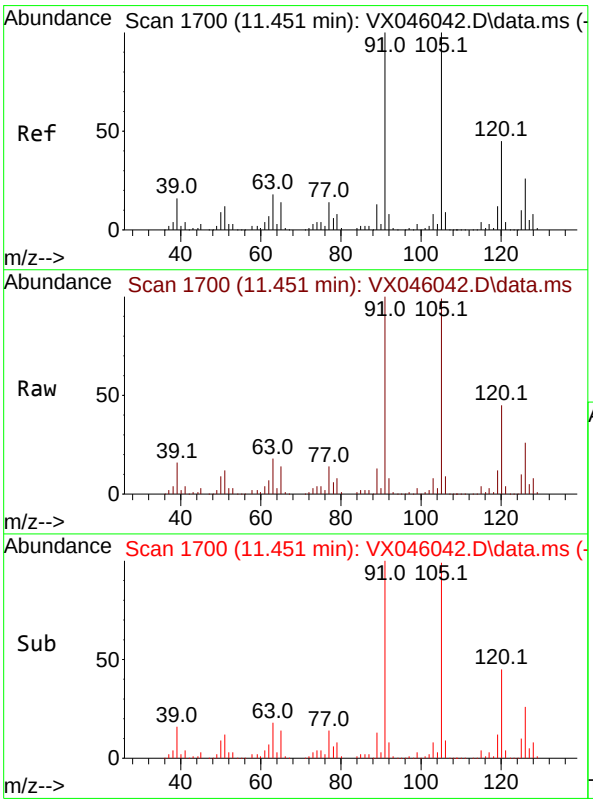
#81
trans-1,4-Dichloro-2-butene
Concen: 38.445 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 75 Resp: 26179

Ion	Ratio	Lower	Upper
75	100		
53	125.6	100.5	150.7
89	46.3	37.0	55.6

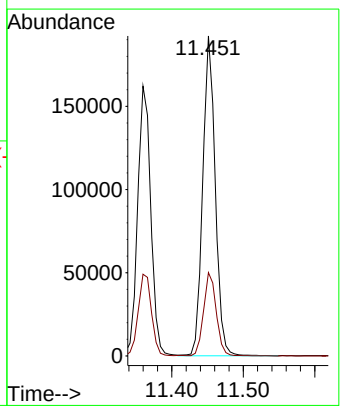


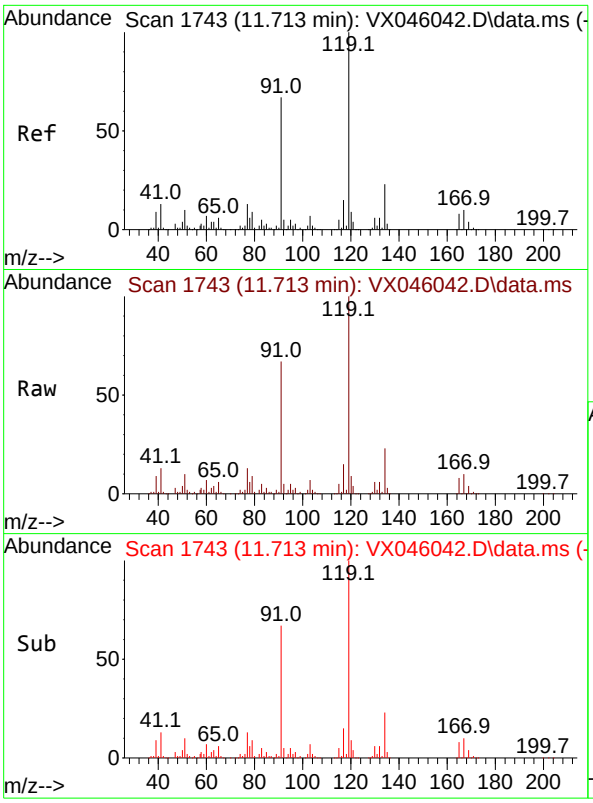


#82
4-Chlorotoluene
Concen: 37.880 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 91 Resp: 233172

Ion	Ratio	Lower	Upper
91	100		
126	26.5	13.3	39.8



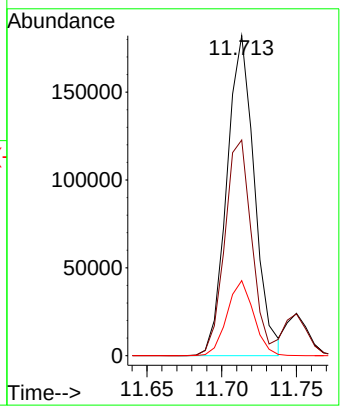


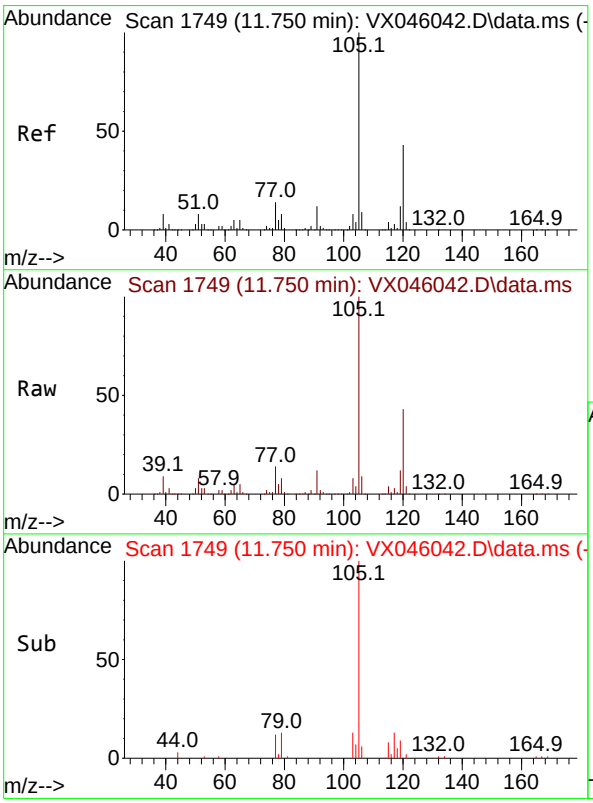
#83
tert-Butylbenzene
Concen: 38.622 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:119 Resp: 233468

Ion	Ratio	Lower	Upper
119	100		
91	65.8	32.9	98.7
134	22.7	11.4	34.1

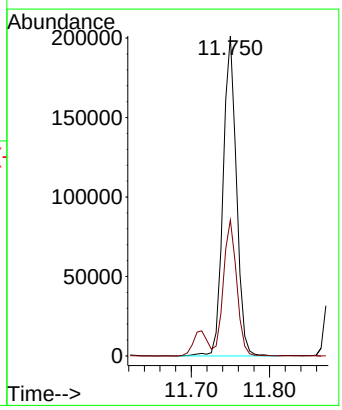


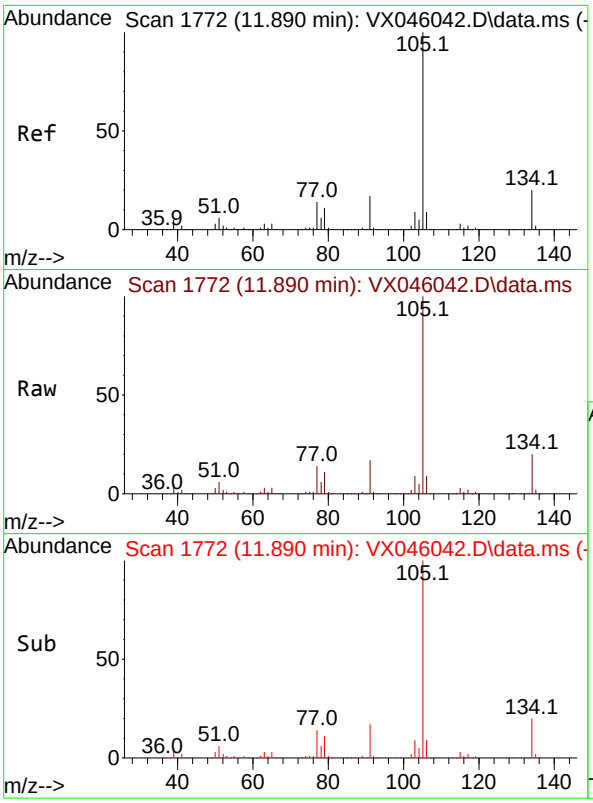


#84
1,2,4-Trimethylbenzene
Concen: 38.946 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion:105 Resp: 239433

Ion	Ratio	Lower	Upper
105	100		
120	42.4	21.2	63.6



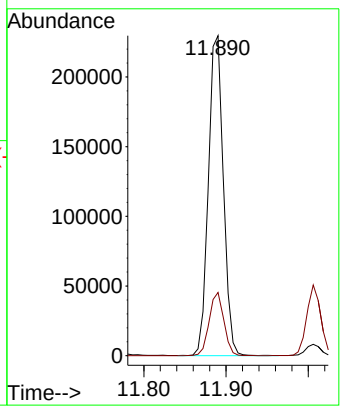


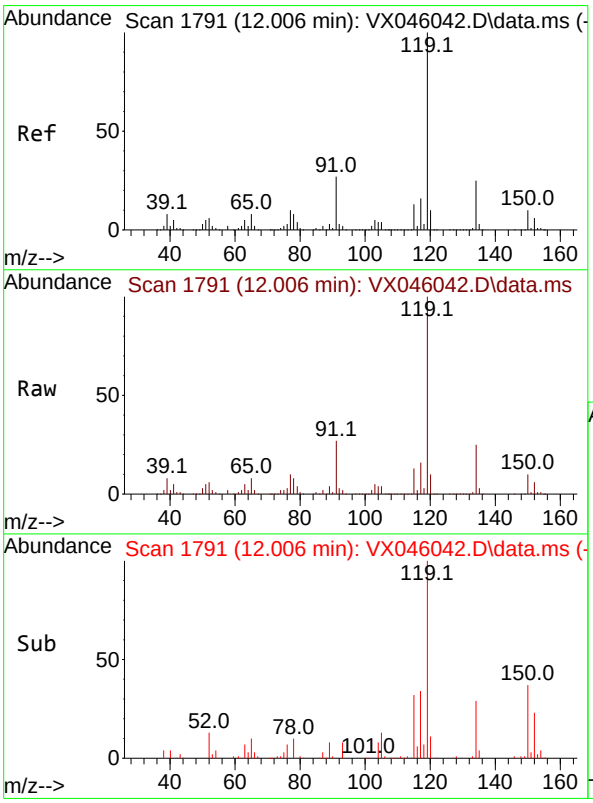
#85
sec-Butylbenzene
Concen: 38.786 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:105 Resp: 291074

Ion	Ratio	Lower	Upper
105	100		
134	19.4	9.7	29.1

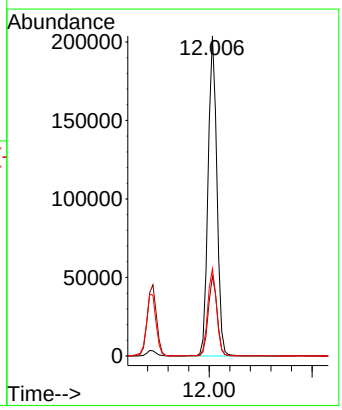


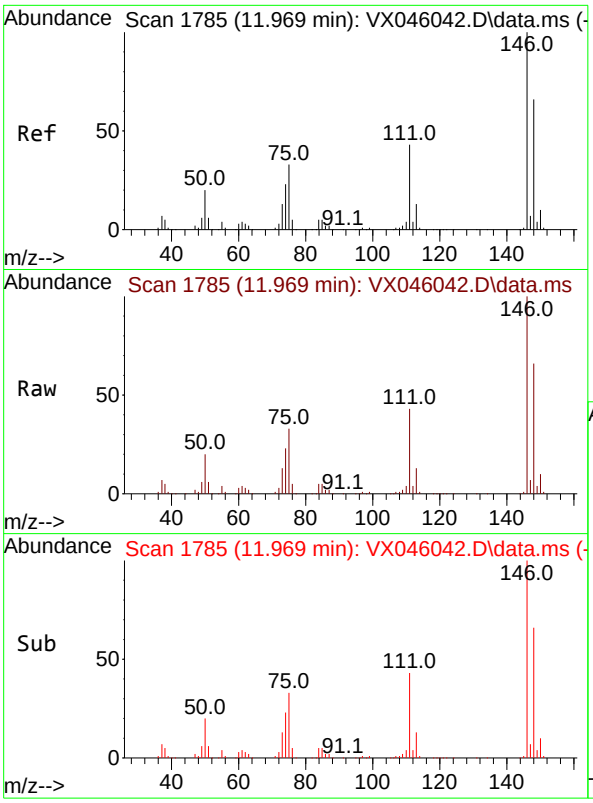


#86
p-Isopropyltoluene
Concen: 39.879 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion:119 Resp: 241658

Ion	Ratio	Lower	Upper
119	100		
134	25.0	12.5	37.5
91	27.6	13.8	41.4



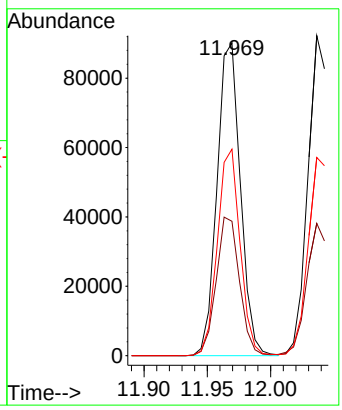


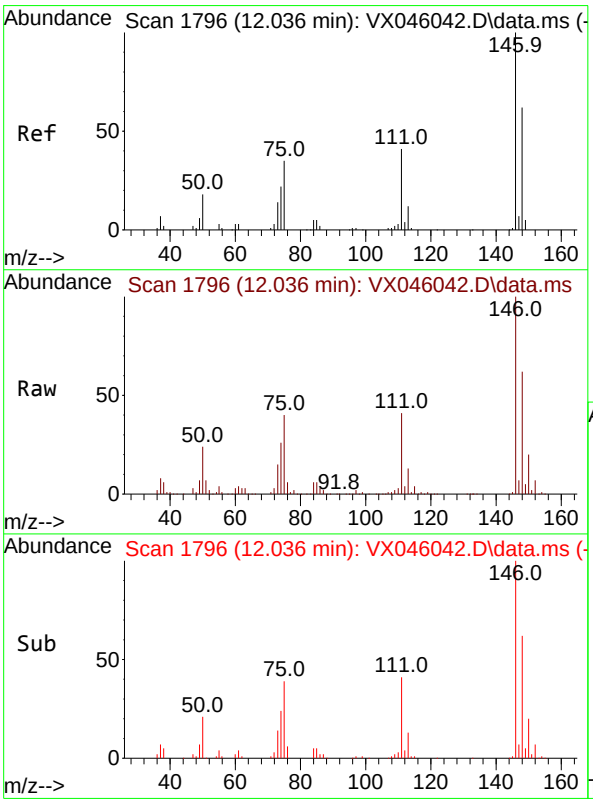
#87
1,3-Dichlorobenzene
Concen: 36.199 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:146 Resp: 115651

Ion	Ratio	Lower	Upper
146	100		
111	44.2	22.1	66.3
148	64.3	32.1	96.5

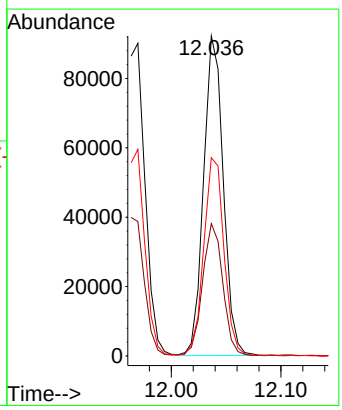


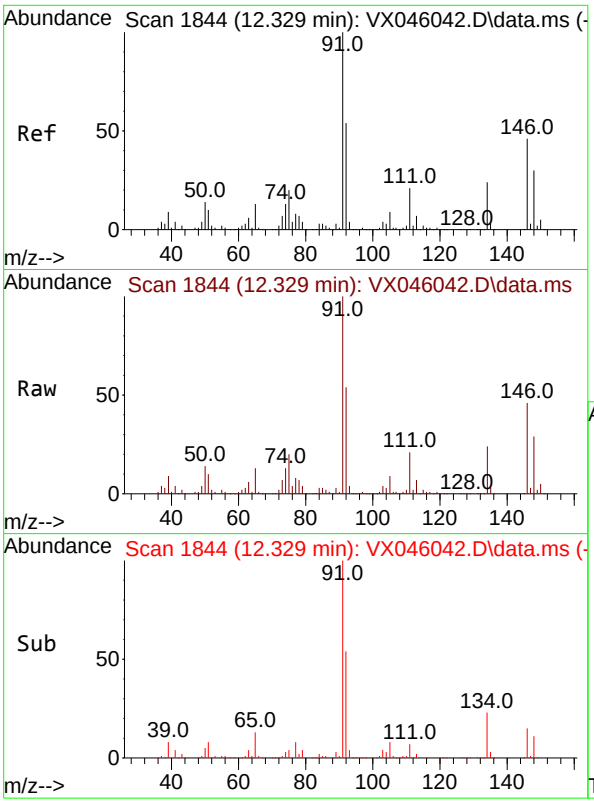


#88
1,4-Dichlorobenzene
Concen: 36.763 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion:146 Resp: 115097

Ion	Ratio	Lower	Upper
146	100		
111	42.6	21.3	63.9
148	63.7	31.9	95.5



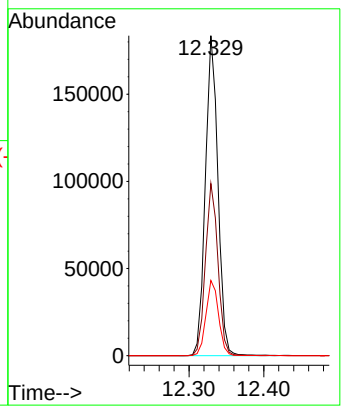


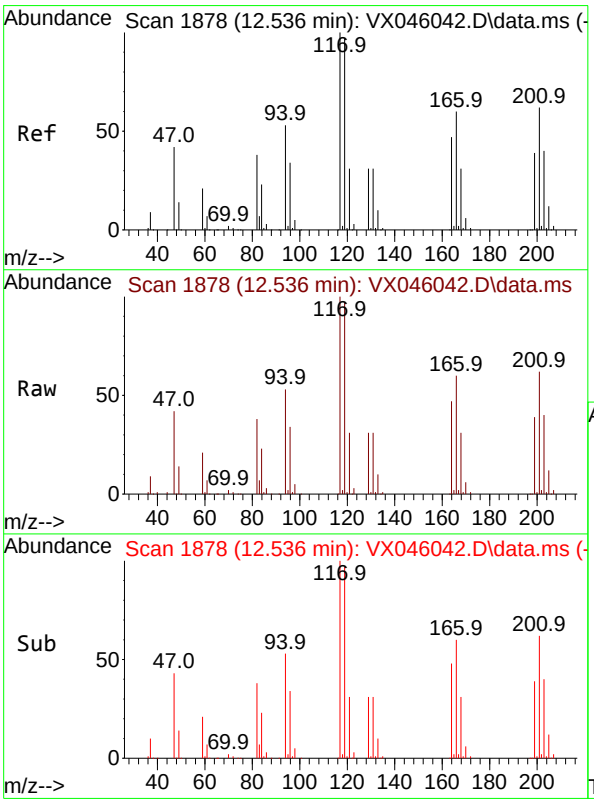
#89
n-Butylbenzene
Concen: 40.603 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 91 Resp: 213899

Ion	Ratio	Lower	Upper
91	100		
92	53.8	26.9	80.7
134	23.5	11.8	35.3

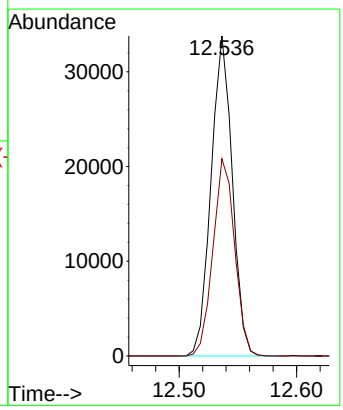


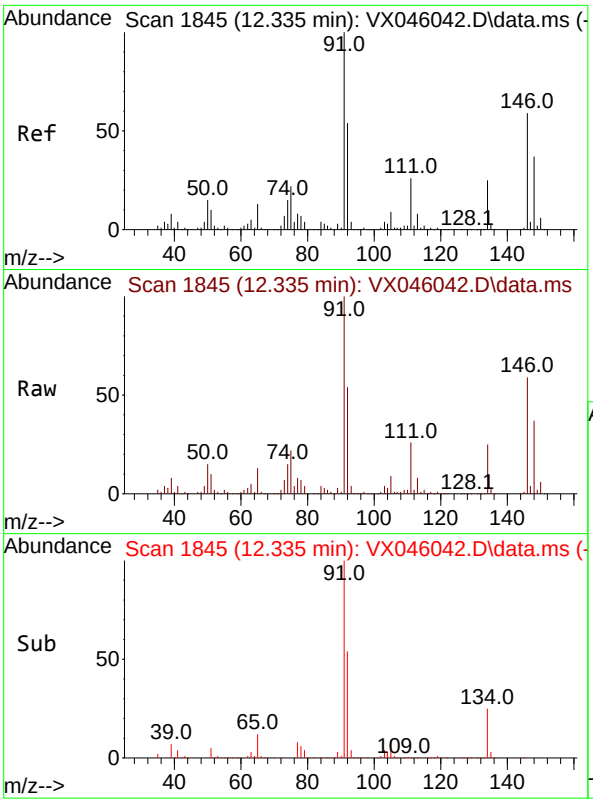


#90
Hexachloroethane
Concen: 37.534 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion:117 Resp: 42314

Ion	Ratio	Lower	Upper
117	100		
201	63.1	31.6	94.7



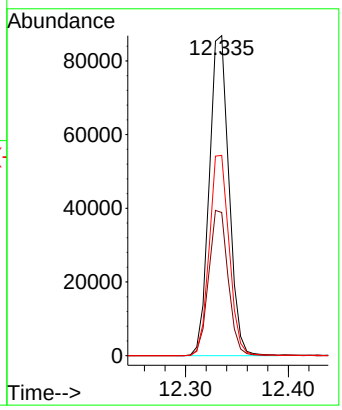


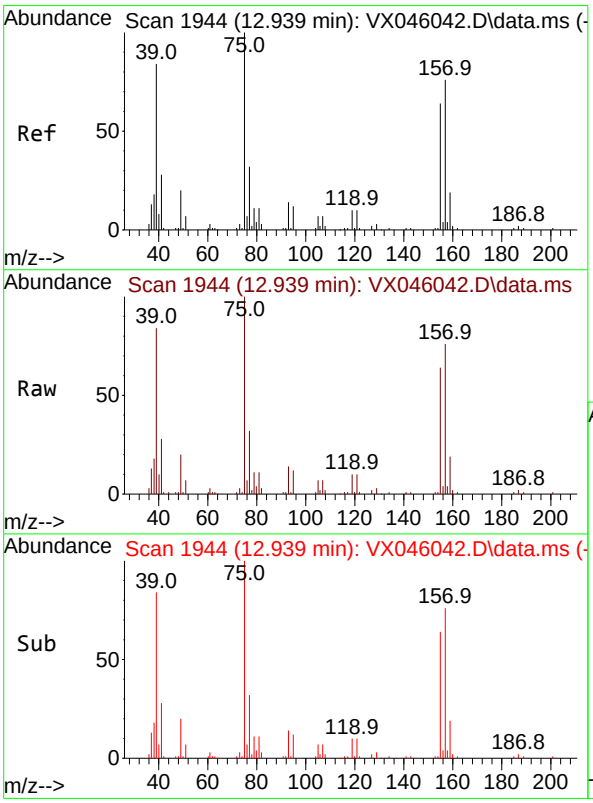
#91
1,2-Dichlorobenzene
Concen: 37.047 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:146 Resp: 115286

Ion	Ratio	Lower	Upper
146	100		
111	44.9	22.4	67.3
148	63.2	31.6	94.8

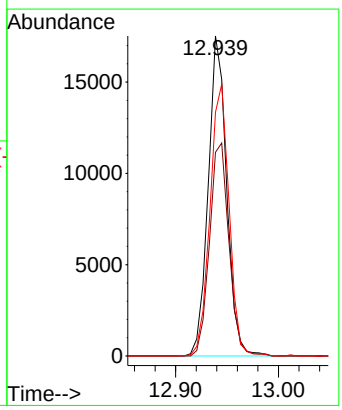


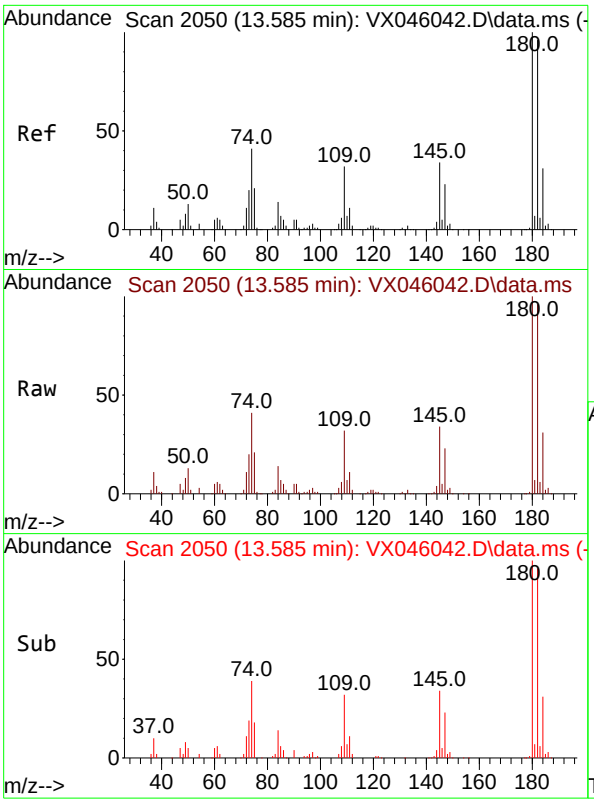


#92
1,2-Dibromo-3-Chloropropane
Concen: 36.496 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion: 75 Resp: 21909

Ion	Ratio	Lower	Upper
75	100		
155	69.9	34.9	104.8
157	87.6	43.8	131.4



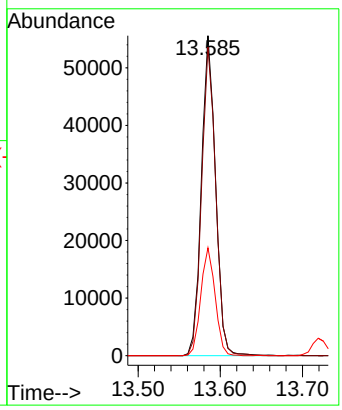


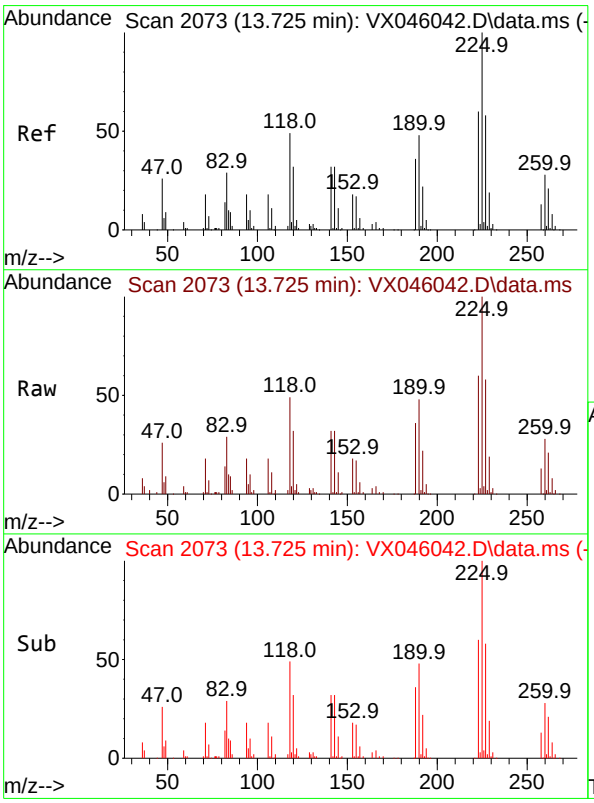
#93
1,2,4-Trichlorobenzene
Concen: 39.117 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:180 Resp: 66655

Ion	Ratio	Lower	Upper
180	100		
182	95.9	47.9	143.8
145	34.1	17.1	51.2

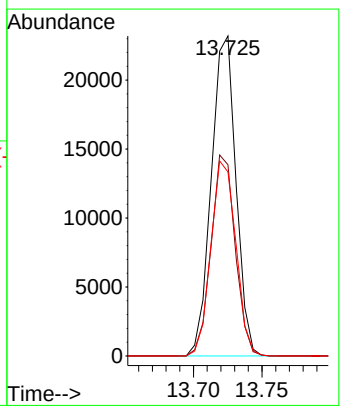


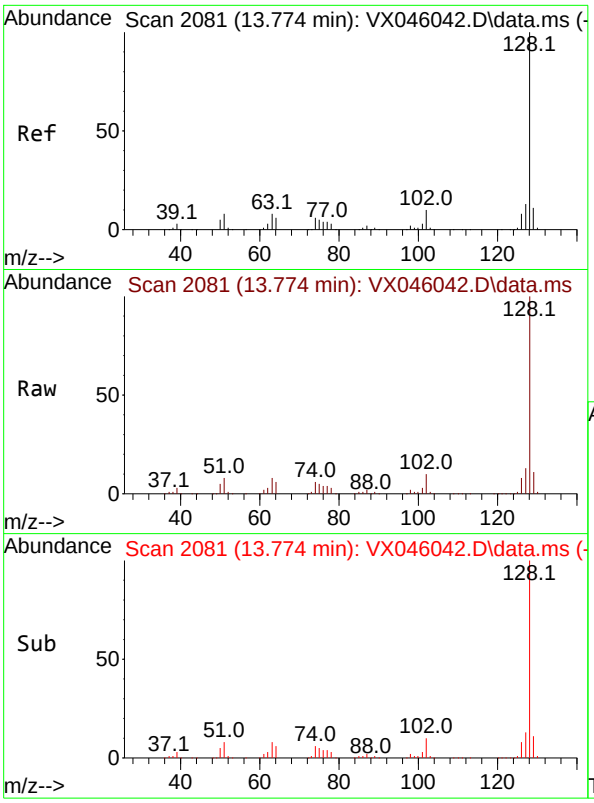


#94
Hexachlorobutadiene
Concen: 36.395 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion:225 Resp: 29007

Ion	Ratio	Lower	Upper
225	100		
223	61.6	30.8	92.4
227	61.8	30.9	92.7



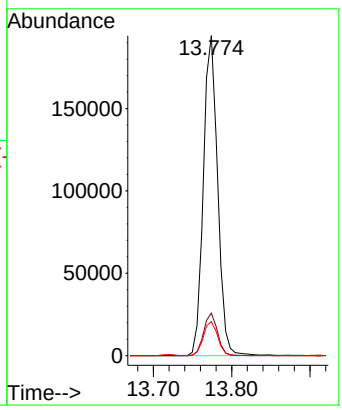


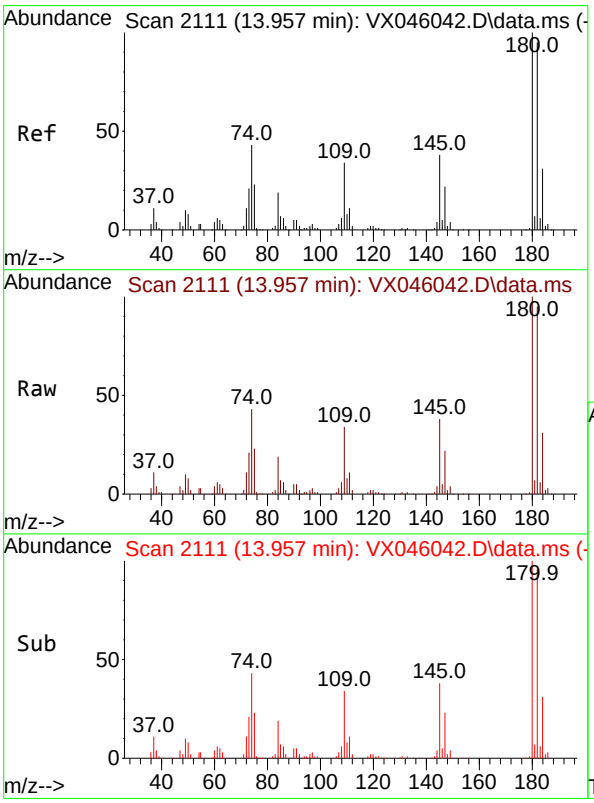
#95
Naphthalene
Concen: 39.575 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:128 Resp: 245568

Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.4	15.6
129	10.8	8.6	13.0

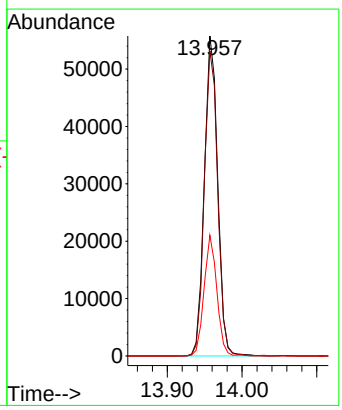




#96
1,2,3-Trichlorobenzene
Concen: 38.765 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX046042.D
Acq: 05 May 2025 11:58

Tgt Ion:180 Resp: 69262

Ion	Ratio	Lower	Upper
180	100		
182	95.5	47.8	143.3
145	36.2	18.1	54.3



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046043.D
Acq On : 05 May 2025 12:21
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Quant Time: May 06 06:10:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	87028	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	152958	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	135214	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	66369	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	161877	62.526	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 125.060%#			
35) Dibromofluoromethane	5.379	113	111455	65.006	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 130.020%#			
50) Toluene-d8	8.647	98	387230	67.031	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 134.060%#			
62) 4-Bromofluorobenzene	11.079	95	153085	72.818	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 145.640%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	149508	77.828	ug/l	99
3) Chloromethane	1.307	50	136937	72.392	ug/l	98
4) Vinyl Chloride	1.374	62	126609	76.398	ug/l	98
5) Bromomethane	1.593	94	59246	70.507	ug/l	99
6) Chloroethane	1.660	64	57332	67.148	ug/l	99
7) Trichlorofluoromethane	1.867	101	171042	67.754	ug/l	99
8) Diethyl Ether	2.136	74	58762	70.807	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.319	101	109520	72.604	ug/l	99
10) Methyl Iodide	2.440	142	138045	77.943	ug/l	100
11) Tert butyl alcohol	2.995	59	125094	405.394	ug/l	100
12) 1,1-Dichloroethene	2.306	96	105566	71.884	ug/l	96
13) Acrolein	2.239	56	134456	375.132	ug/l	99
14) Allyl chloride	2.660	41	206519	74.419	ug/l	98
15) Acrylonitrile	3.068	53	331142	358.723	ug/l	97
16) Acetone	2.386	43	314383	354.936	ug/l	98
17) Carbon Disulfide	2.501	76	264956	77.867	ug/l	100
18) Methyl Acetate	2.703	43	147014	69.531	ug/l	96
19) Methyl tert-butyl Ether	3.117	73	378113	73.818	ug/l	100
20) Methylene Chloride	2.782	84	120270	67.030	ug/l	96
21) trans-1,2-Dichloroethene	3.087	96	106606	71.109	ug/l	99
22) Diisopropyl ether	3.763	45	399494	77.048	ug/l	90
23) Vinyl Acetate	3.721	43	1811550	395.363	ug/l	100
24) 1,1-Dichloroethane	3.605	63	219759	72.114	ug/l	99
25) 2-Butanone	4.556	43	485448	379.704	ug/l	100
26) 2,2-Dichloropropane	4.464	77	174579	75.621	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	128454	71.056	ug/l	99
28) Bromochloromethane	4.891	49	103602	63.932	ug/l	100
29) Tetrahydrofuran	5.001	42	305757	368.234	ug/l	99
30) Chloroform	5.086	83	222253	70.180	ug/l	95
31) Cyclohexane	5.458	56	196302	76.428	ug/l	99
32) 1,1,1-Trichloroethane	5.373	97	201112	73.635	ug/l	98
36) 1,1-Dichloropropene	5.690	75	147873	74.285	ug/l	99
37) Ethyl Acetate	4.714	43	186215	74.565	ug/l	99
38) Carbon Tetrachloride	5.672	117	168946	73.875	ug/l	99
39) Methylcyclohexane	7.372	83	191941	76.952	ug/l	96
40) Benzene	6.031	78	440885	71.457	ug/l	98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046043.D
Acq On : 05 May 2025 12:21
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Quant Time: May 06 06:10:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.916	41	104863	75.574	ug/l		98
42) 1,2-Dichloroethane	6.080	62	187036	73.318	ug/l		99
43) Isopropyl Acetate	6.342	43	300491	78.714	ug/l		100
44) Trichloroethene	7.123	130	105628	72.420	ug/l		98
45) 1,2-Dichloropropane	7.427	63	112554	73.420	ug/l		100
46) Dibromomethane	7.574	93	85728	70.938	ug/l		100
47) Bromodichloromethane	7.818	83	175301	74.845	ug/l		99
48) Methyl methacrylate	7.689	41	153093	78.101	ug/l		99
49) 1,4-Dioxane	7.659	88	57313	1470.687	ug/l		99
51) 4-Methyl-2-Pentanone	8.573	43	963319	384.740	ug/l		100
52) Toluene	8.714	92	270763	74.010	ug/l		100
53) t-1,3-Dichloropropene	8.976	75	169863	86.372	ug/l		100
54) cis-1,3-Dichloropropene	8.366	75	184134	80.264	ug/l		95
55) 1,1,2-Trichloroethane	9.147	97	107264	72.543	ug/l		99
56) Ethyl methacrylate	9.116	69	188717	82.359	ug/l		99
57) 1,3-Dichloropropane	9.305	76	187649	71.590	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.238	63	463169	449.791	ug/l		100
59) 2-Hexanone	9.433	43	729602	383.945	ug/l		100
60) Dibromochloromethane	9.518	129	127012	78.918	ug/l		98
61) 1,2-Dibromoethane	9.610	107	112669	74.200	ug/l		98
64) Tetrachloroethene	9.268	164	93195	67.493	ug/l		96
65) Chlorobenzene	10.079	112	293284	70.490	ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.159	131	103177	74.349	ug/l		99
67) Ethyl Benzene	10.189	91	535122	75.444	ug/l		99
68) m/p-Xylenes	10.299	106	389935	152.181	ug/l		99
69) o-Xylene	10.640	106	190833	73.890	ug/l		97
70) Styrene	10.652	104	328195	79.411	ug/l		100
71) Bromoform	10.799	173	84353	80.927	ug/l	#	98
73) Isopropylbenzene	10.957	105	514528	71.083	ug/l		100
74) N-amyl acetate	10.841	43	274553	76.073	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.213	83	170481	66.207	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	196706	71.091	ug/l		86
77) Bromobenzene	11.195	156	117151	69.959	ug/l		99
78) n-propylbenzene	11.305	91	608332	74.974	ug/l		100
79) 2-Chlorotoluene	11.360	91	372392	68.100	ug/l		100
80) 1,3,5-Trimethylbenzene	11.451	105	432096	71.903	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	54398	81.820	ug/l		93
82) 4-Chlorotoluene	11.451	91	432053	71.890	ug/l		100
83) tert-Butylbenzene	11.713	119	432011	73.197	ug/l		99
84) 1,2,4-Trimethylbenzene	11.750	105	442728	73.758	ug/l		100
85) sec-Butylbenzene	11.890	105	543597	74.188	ug/l		100
86) p-Isopropyltoluene	12.006	119	457898	77.393	ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	219753	70.449	ug/l		99
88) 1,4-Dichlorobenzene	12.036	146	217613	71.190	ug/l		99
89) n-Butylbenzene	12.329	91	416602	80.996	ug/l		100
90) Hexachloroethane	12.536	117	82528	74.978	ug/l		100
91) 1,2-Dichlorobenzene	12.335	146	216834	71.367	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	43673	74.512	ug/l		98
93) 1,2,4-Trichlorobenzene	13.585	180	137430	82.605	ug/l		98
94) Hexachlorobutadiene	13.725	225	55494	71.314	ug/l		98
95) Naphthalene	13.774	128	489778	80.842	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	139525	79.981	ug/l		98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046043.D
Acq On : 05 May 2025 12:21
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Quant Time: May 06 06:10:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

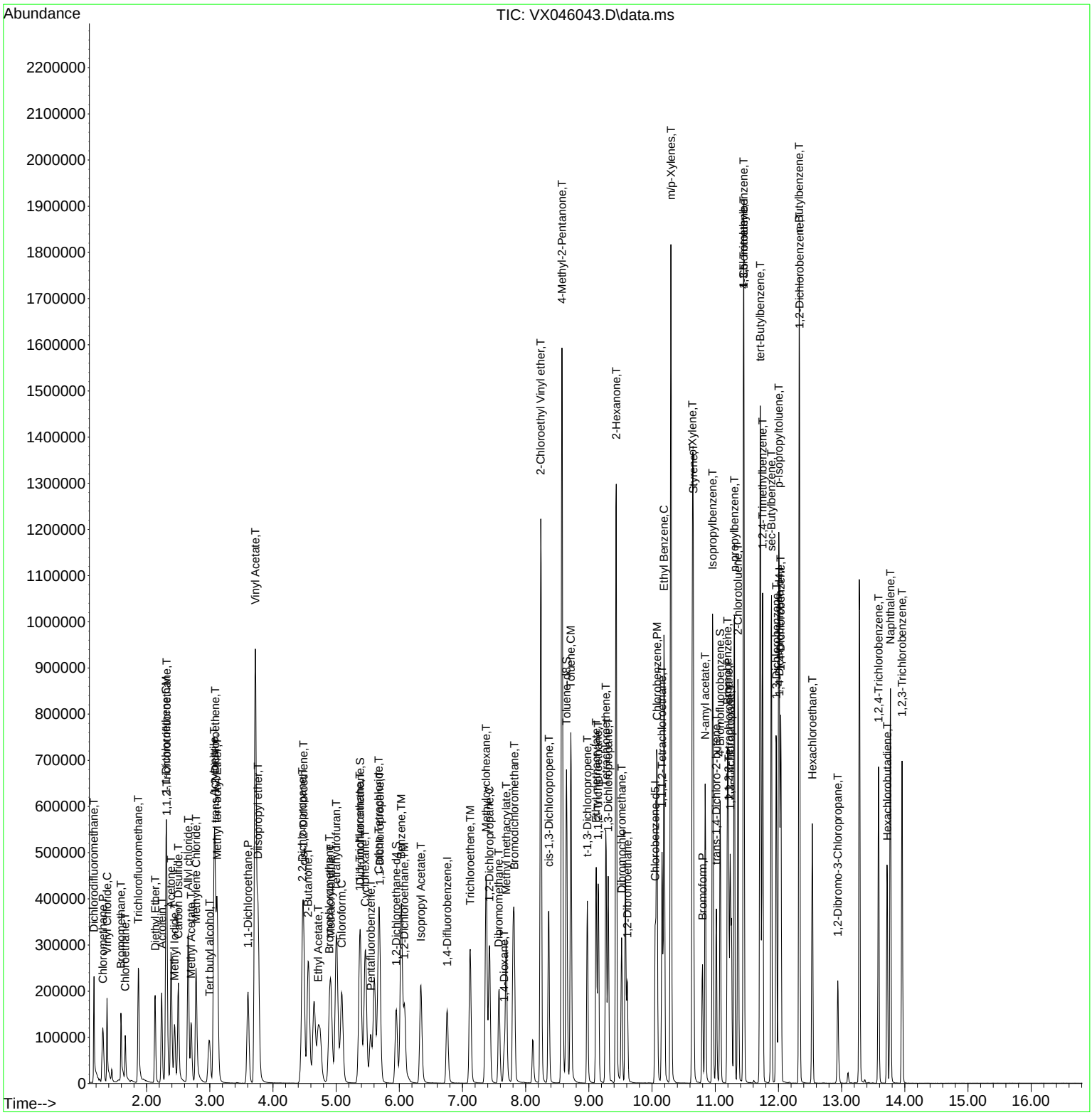
(#) = qualifier out of range (m) = manual integration (+) = signals summed

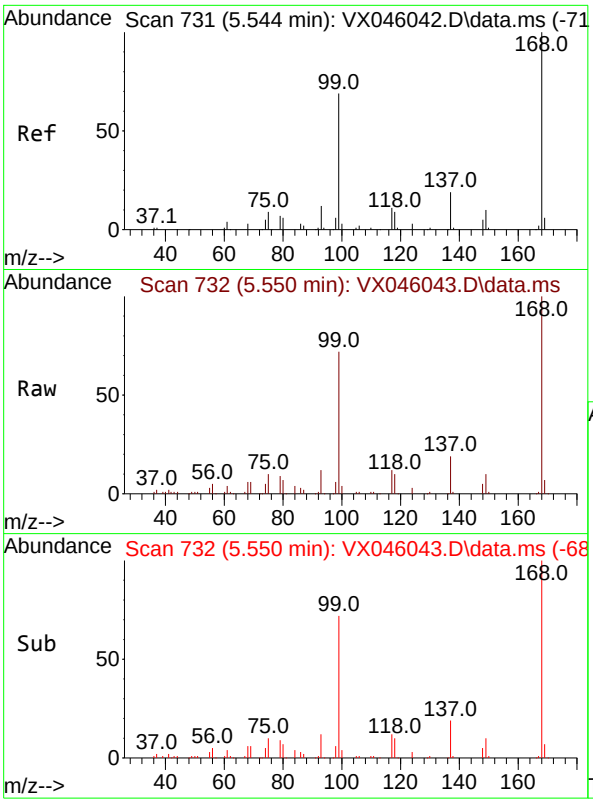
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046043.D
Acq On : 05 May 2025 12:21
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Quant Time: May 06 06:10:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration



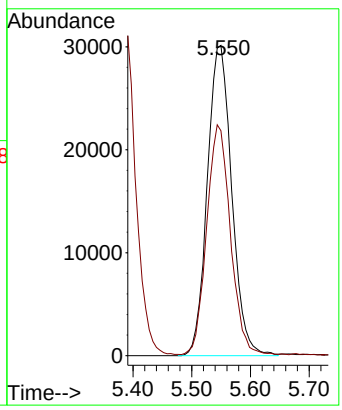


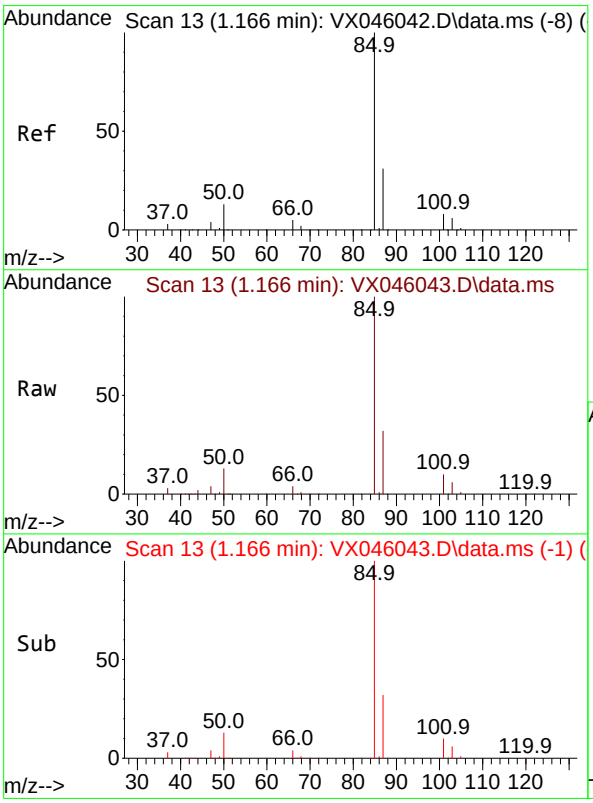
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:168 Resp: 87028

Ion	Ratio	Lower	Upper
168	100		
99	72.1	54.9	82.3

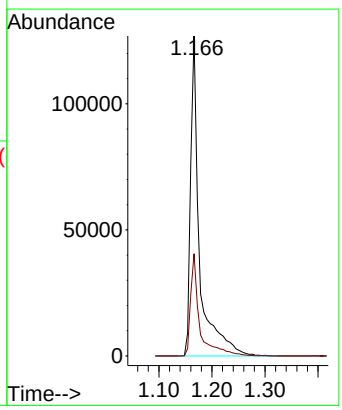


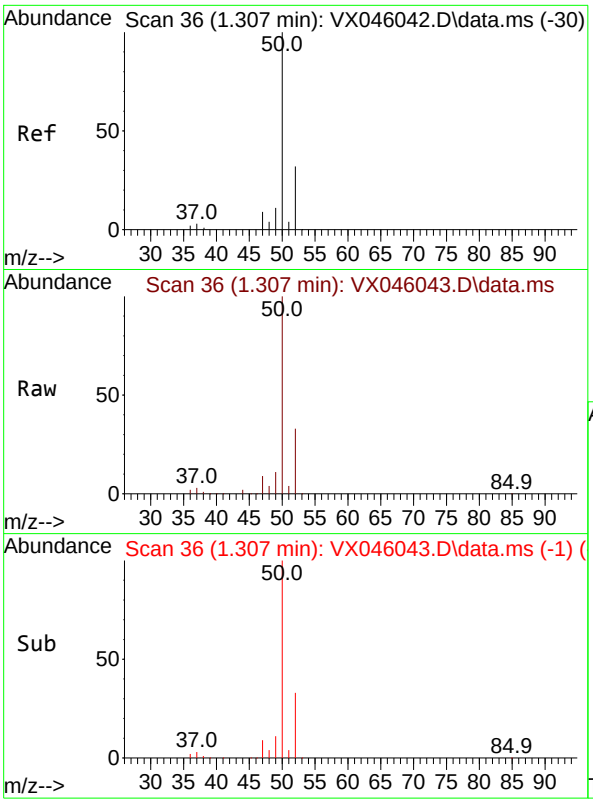


#2
Dichlorodifluoromethane
Concen: 77.828 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 85 Resp: 149508

Ion	Ratio	Lower	Upper
85	100		
87	32.0	15.7	47.1



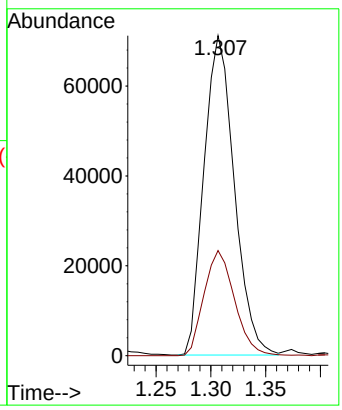


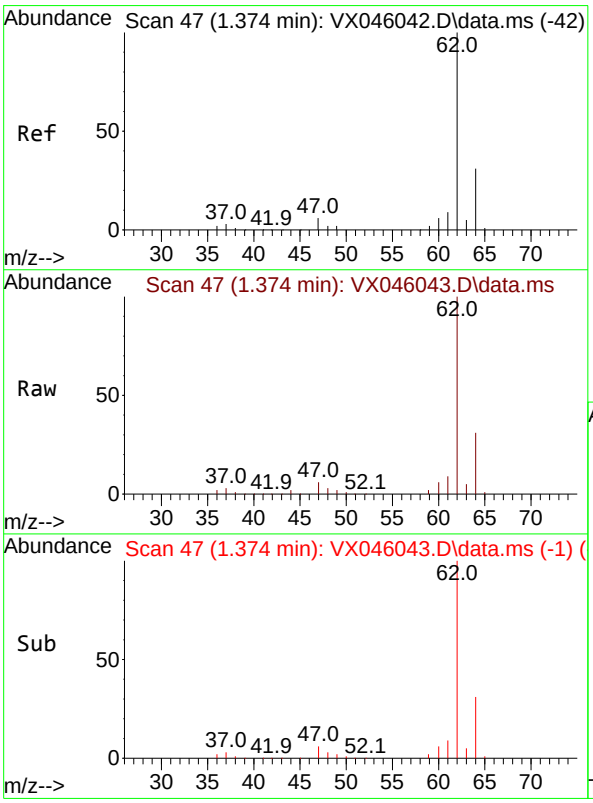
#3
Chloromethane
Concen: 72.392 ug/l
RT: 1.307 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 50 Resp: 136937

Ion	Ratio	Lower	Upper
50	100		
52	32.9	25.4	38.2

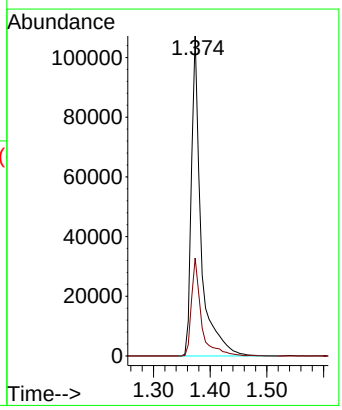


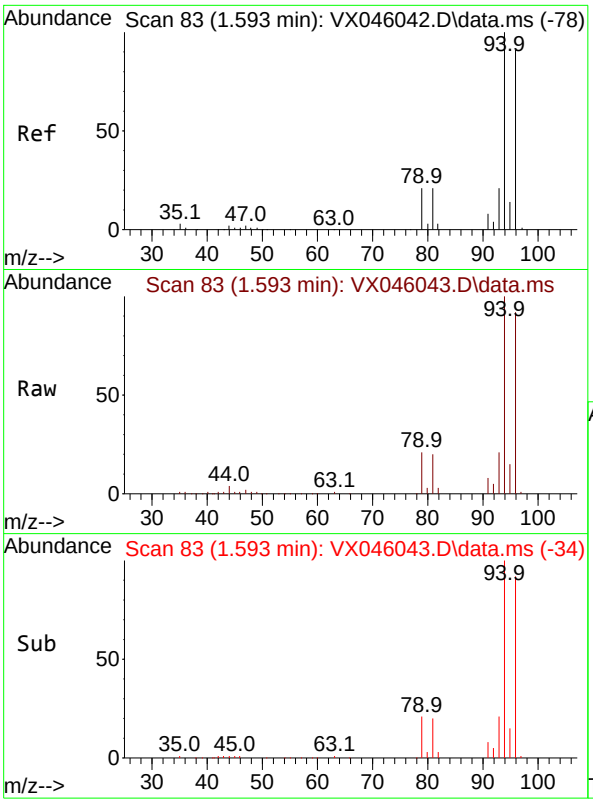


#4
Vinyl Chloride
Concen: 76.398 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 62 Resp: 126609

Ion	Ratio	Lower	Upper
62	100		
64	30.6	25.2	37.8



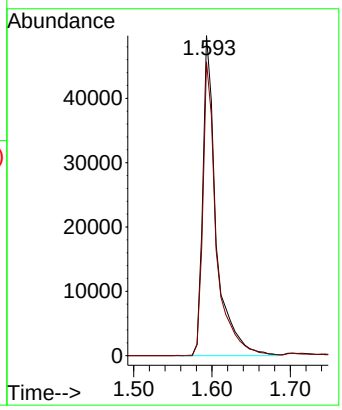


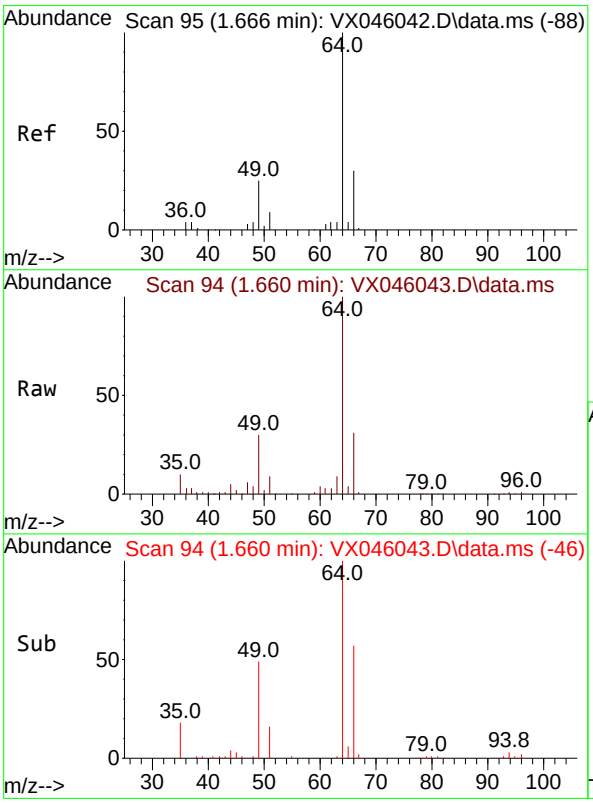
#5
Bromomethane
Concen: 70.507 ug/l
RT: 1.593 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 94 Resp: 59246

Ion	Ratio	Lower	Upper
94	100		
96	91.7	72.8	109.2

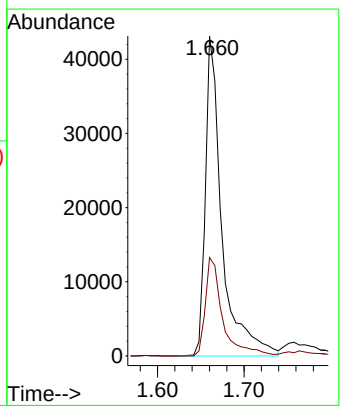


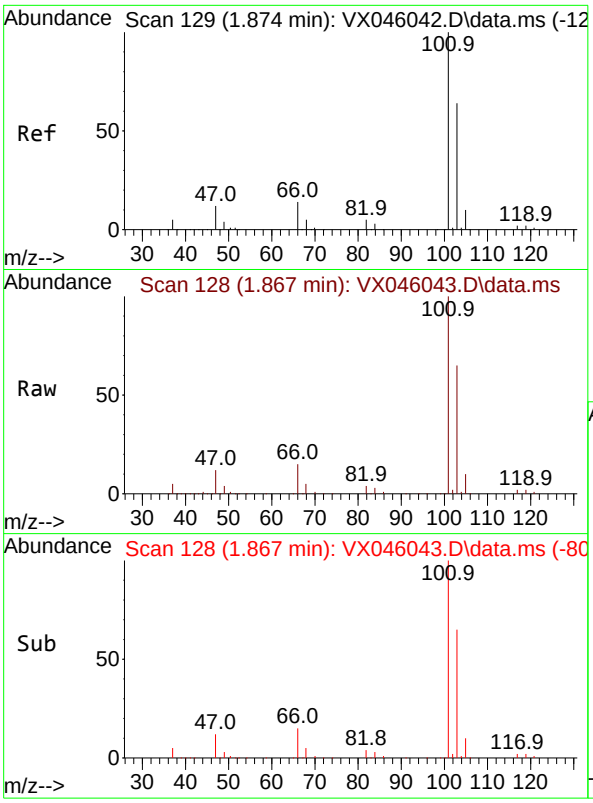


#6
Chloroethane
Concen: 67.148 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.006 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 64 Resp: 57332

Ion	Ratio	Lower	Upper
64	100		
66	30.8	24.3	36.5



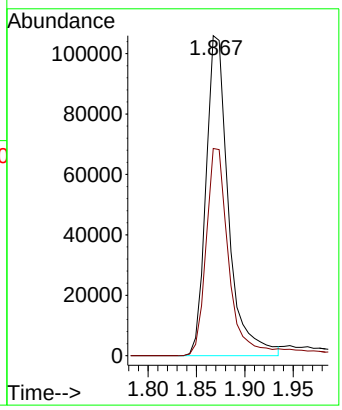


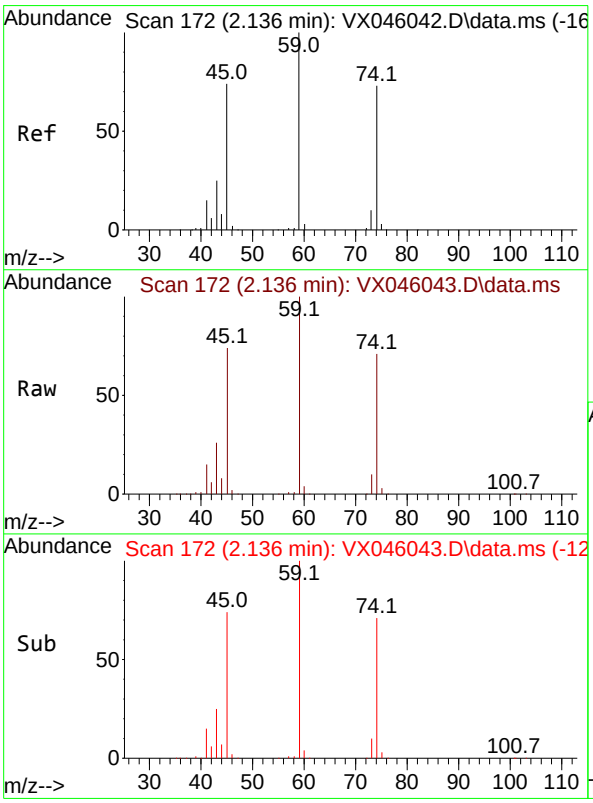
#7
Trichlorofluoromethane
Concen: 67.754 ug/l
RT: 1.867 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:101 Resp: 171042

Ion	Ratio	Lower	Upper
101	100		
103	64.8	51.0	76.4

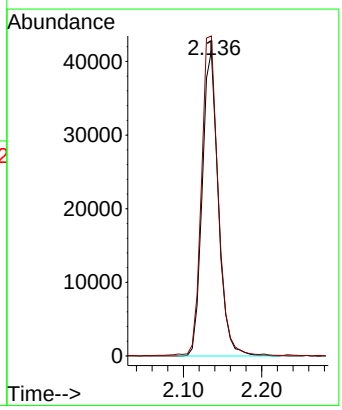


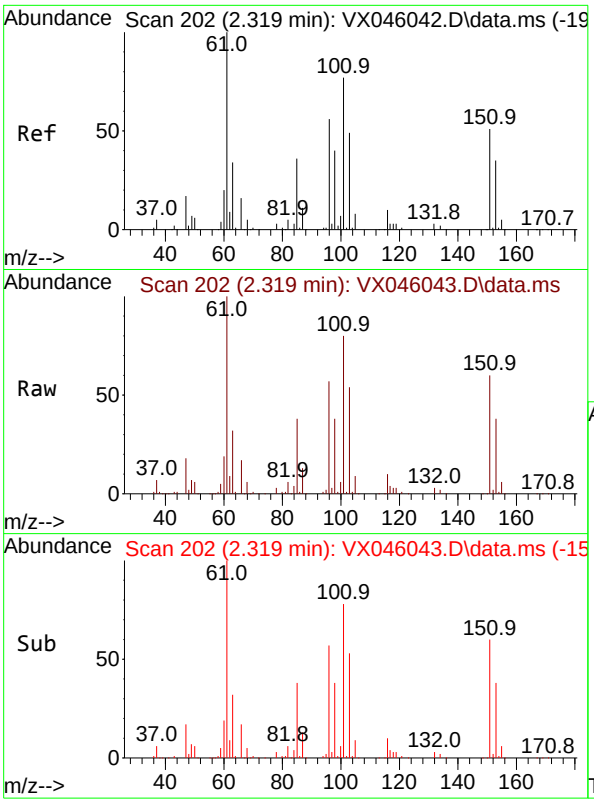


#8
Diethyl Ether
Concen: 70.807 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 74 Resp: 58762

Ion	Ratio	Lower	Upper
74	100		
45	110.1	54.9	164.8



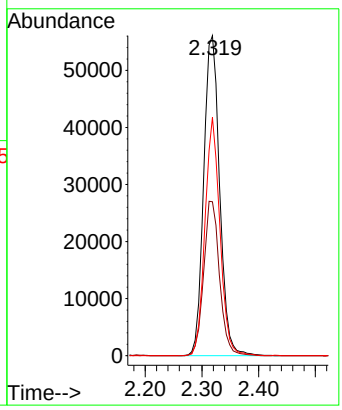


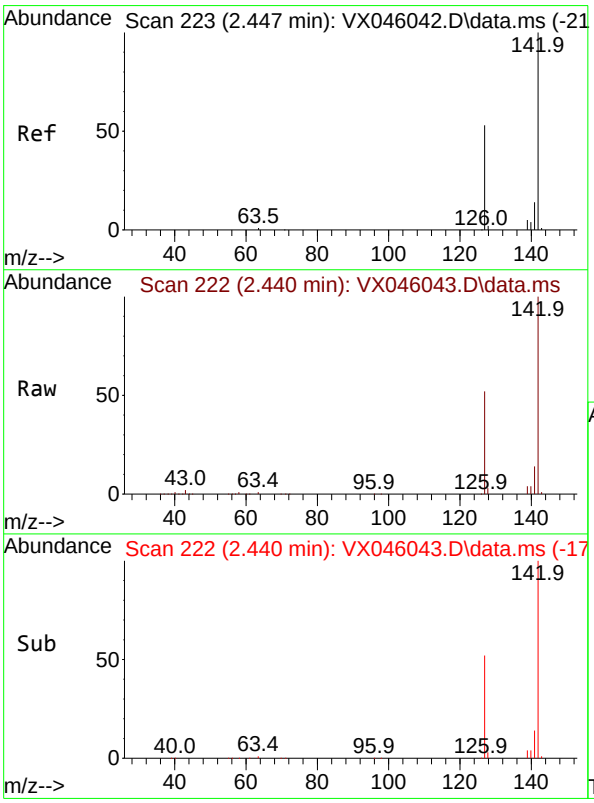
#9
1,1,2-Trichlorotrifluoroethane
Concen: 72.604 ug/l
RT: 2.319 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:101 Resp: 109520

Ion	Ratio	Lower	Upper
101	100		
85	48.1	38.6	58.0
151	69.9	55.2	82.8

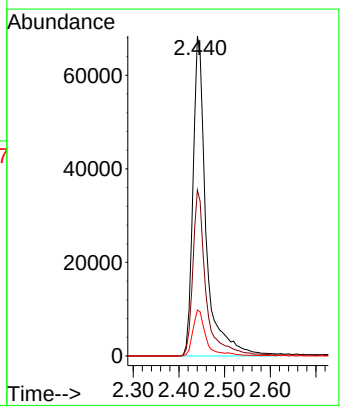


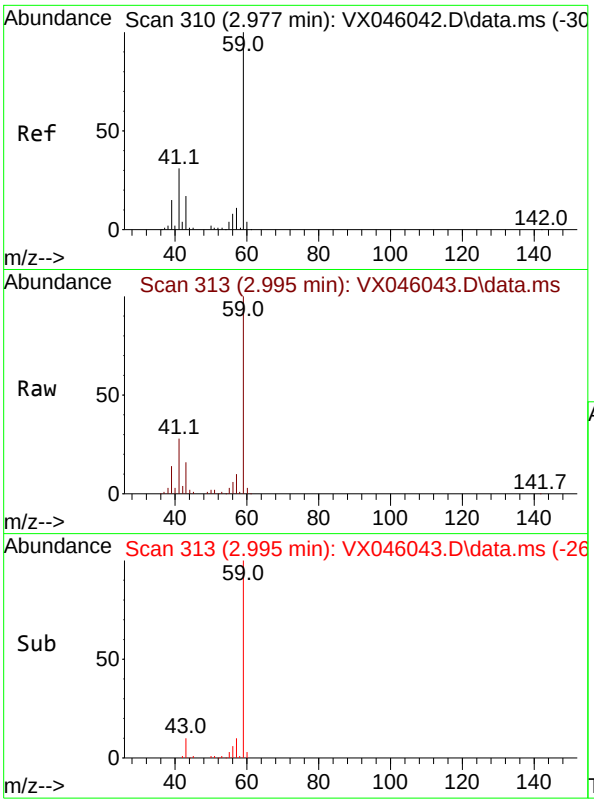


#10
Methyl Iodide
Concen: 77.943 ug/l
RT: 2.440 min Scan# 222
Delta R.T. -0.006 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion:142 Resp: 138045

Ion	Ratio	Lower	Upper
142	100		
127	52.0	41.7	62.5
141	14.5	11.5	17.3



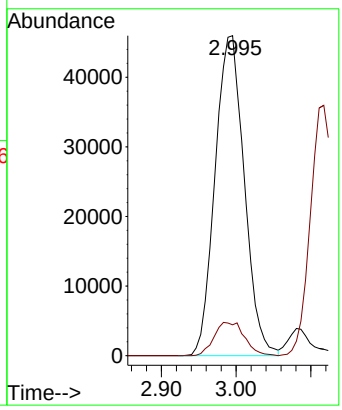


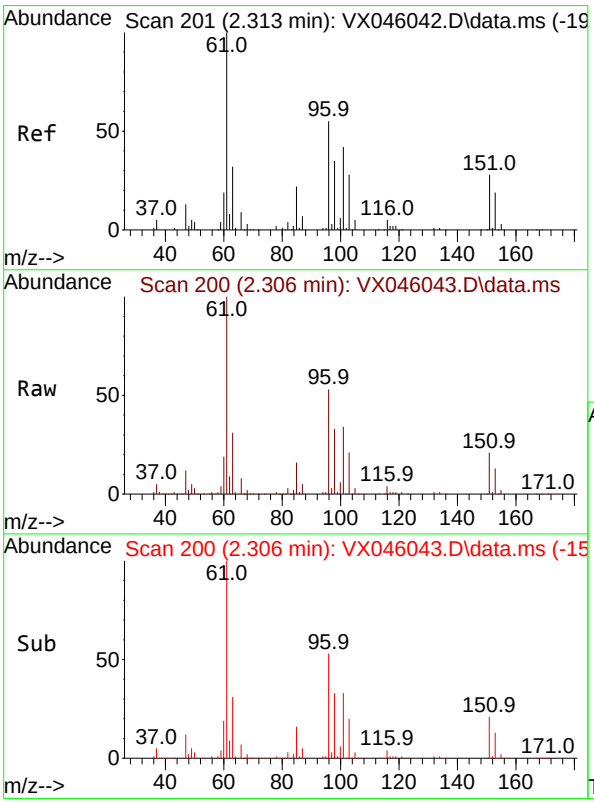
#11
Tert butyl alcohol
Concen: 405.394 ug/l
RT: 2.995 min Scan# 3
Delta R.T. 0.018 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 59 Resp: 125094

Ion	Ratio	Lower	Upper
59	100		
57	10.9	8.6	12.8

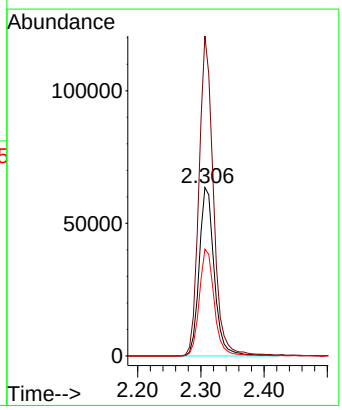


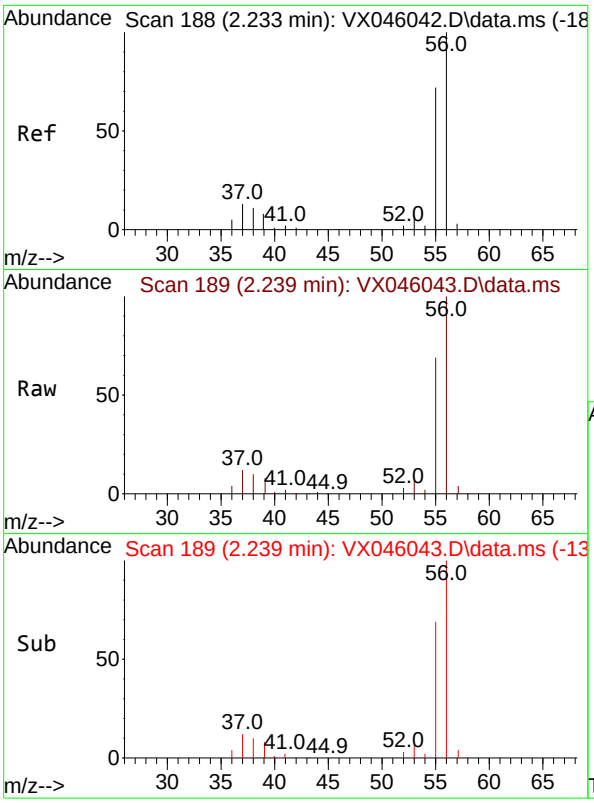


#12
1,1-Dichloroethene
Concen: 71.884 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.006 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 96 Resp: 105566

Ion	Ratio	Lower	Upper
96	100		
61	189.9	146.2	219.2
98	63.3	51.0	76.6



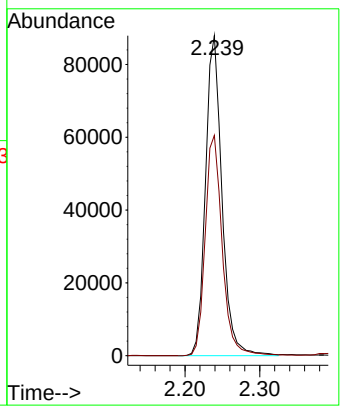


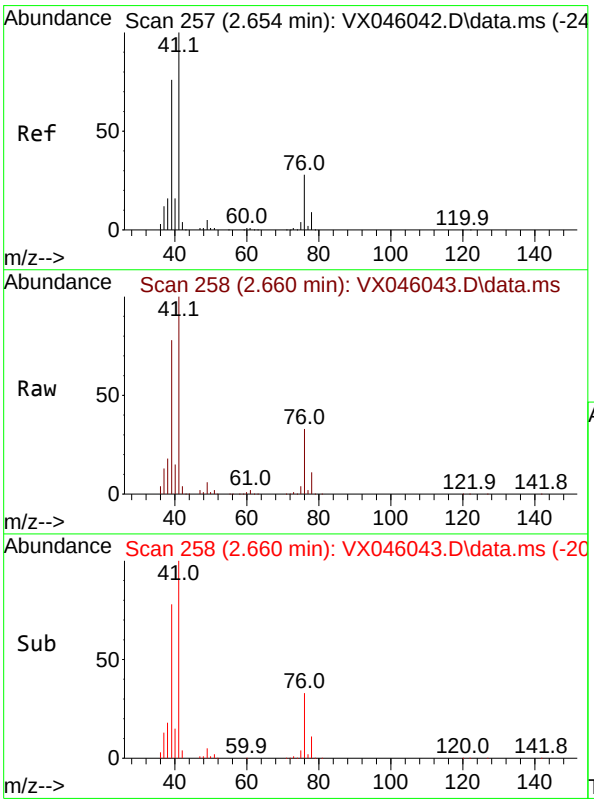
#13
Acrolein
Concen: 375.132 ug/l
RT: 2.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 56 Resp: 134456

Ion	Ratio	Lower	Upper
56	100		
55	71.3	56.2	84.4

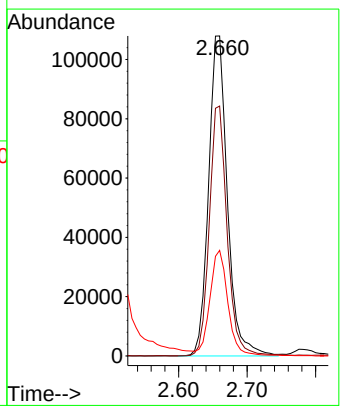


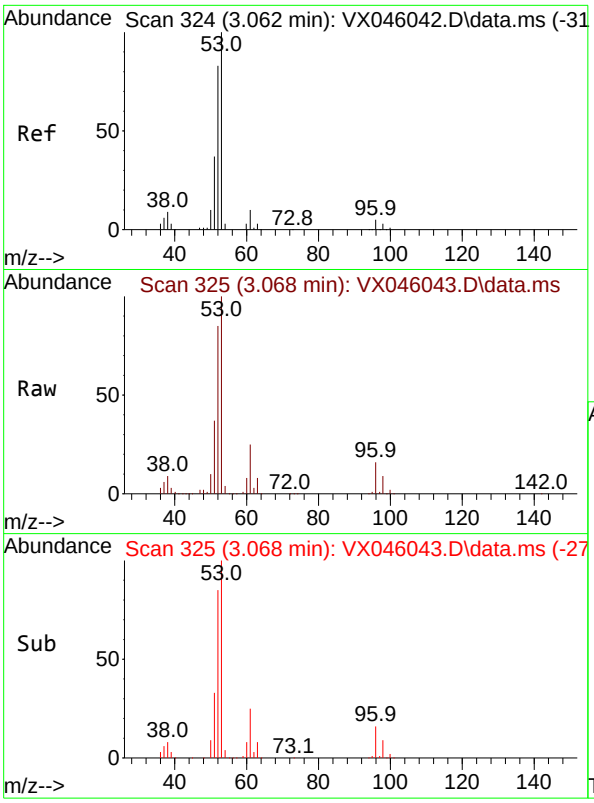


#14
Allyl chloride
Concen: 74.419 ug/l
RT: 2.660 min Scan# 258
Delta R.T. 0.006 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 41 Resp: 206519

Ion	Ratio	Lower	Upper
41	100		
39	73.8	60.6	90.8
76	31.4	24.9	37.3



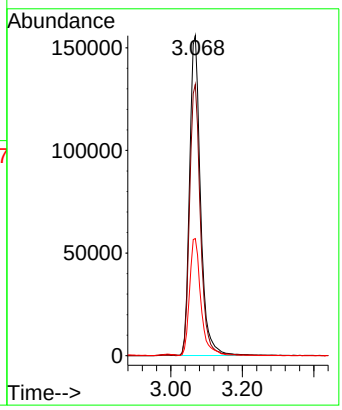


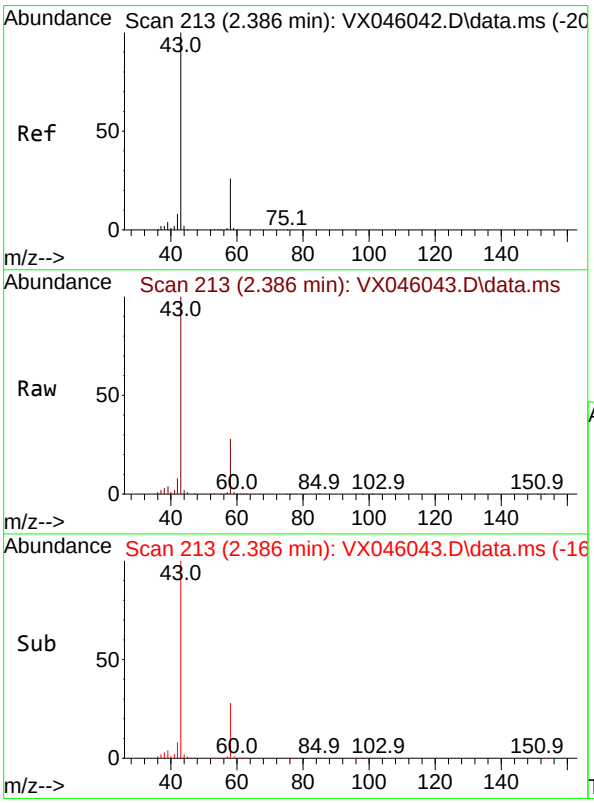
#15
Acrylonitrile
Concen: 358.723 ug/l
RT: 3.068 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 53 Resp: 331142

Ion	Ratio	Lower	Upper
53	100		
52	84.7	65.3	97.9
51	37.9	29.8	44.8

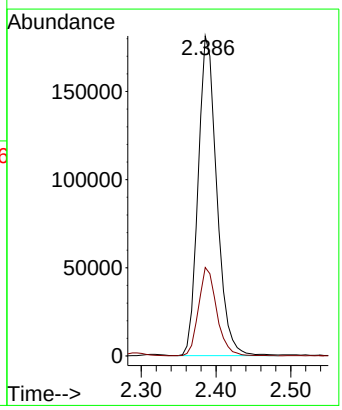


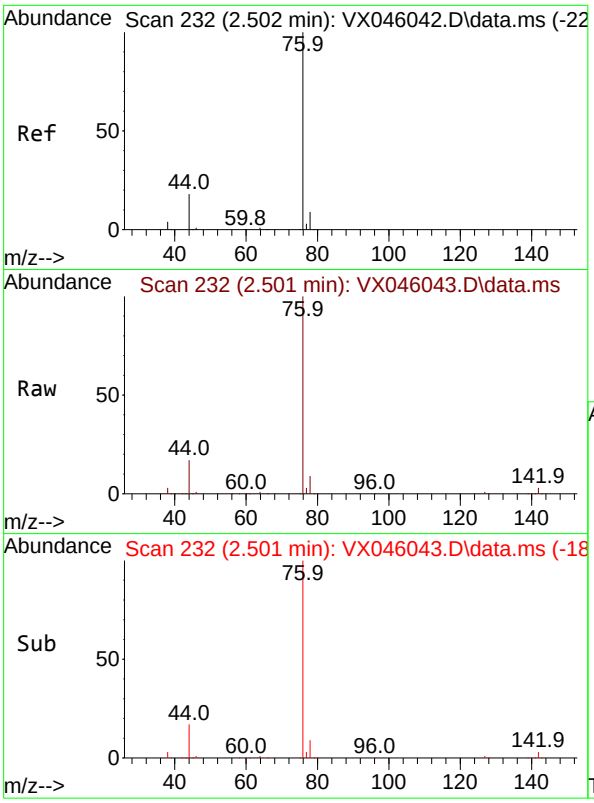


#16
Acetone
Concen: 354.936 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 43 Resp: 314383

Ion	Ratio	Lower	Upper
43	100		
58	27.6	21.2	31.8



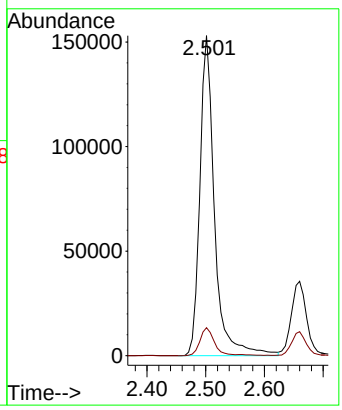


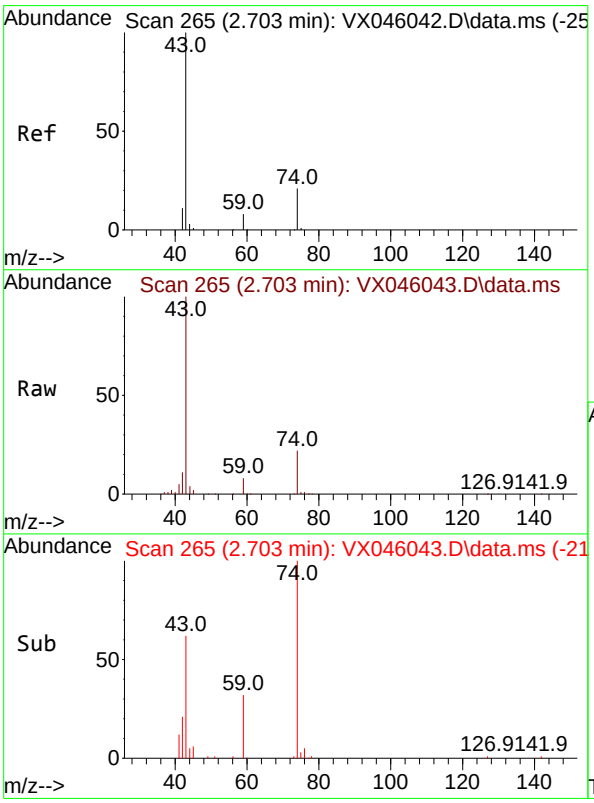
#17
Carbon Disulfide
Concen: 77.867 ug/l
RT: 2.501 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 76 Resp: 264956

Ion	Ratio	Lower	Upper
76	100		
78	8.7	7.0	10.4

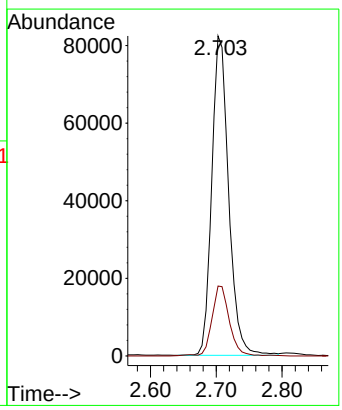


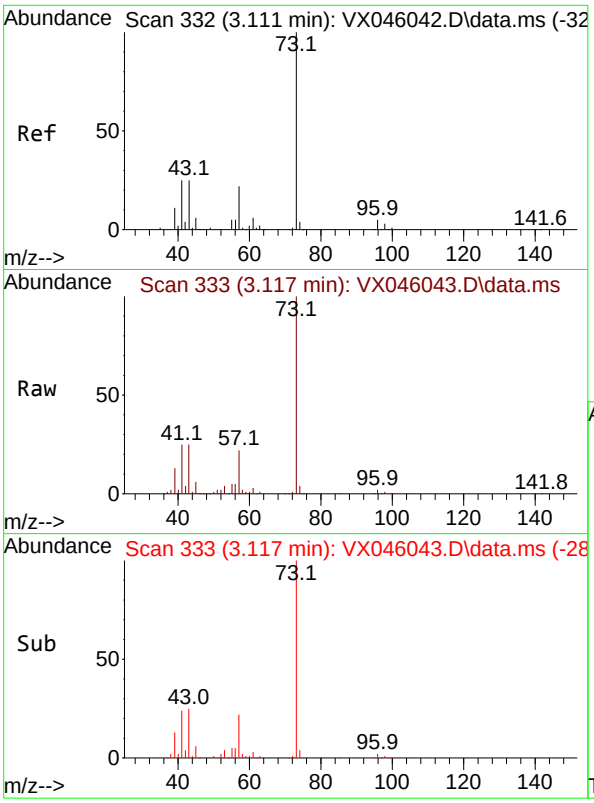


#18
Methyl Acetate
Concen: 69.531 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 43 Resp: 147014

Ion	Ratio	Lower	Upper
43	100		
74	22.6	16.7	25.1



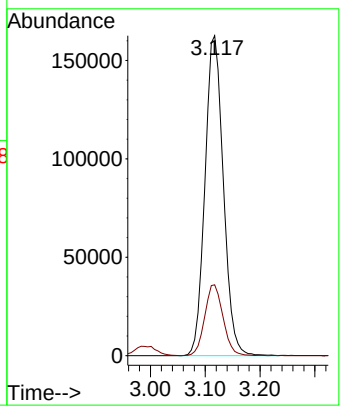


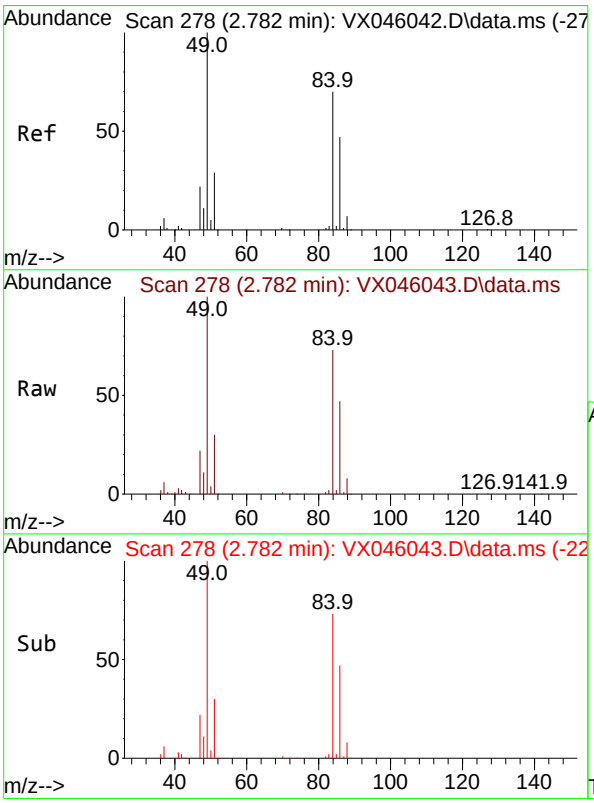
#19
Methyl tert-butyl Ether
Concen: 73.818 ug/l
RT: 3.117 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 73 Resp: 378113

Ion	Ratio	Lower	Upper
73	100		
57	22.1	17.7	26.5

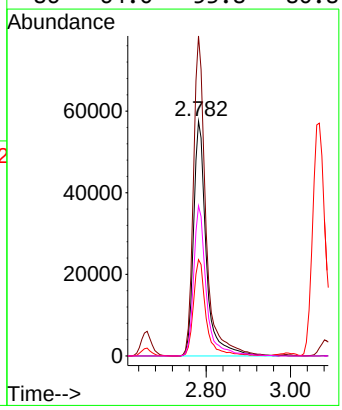


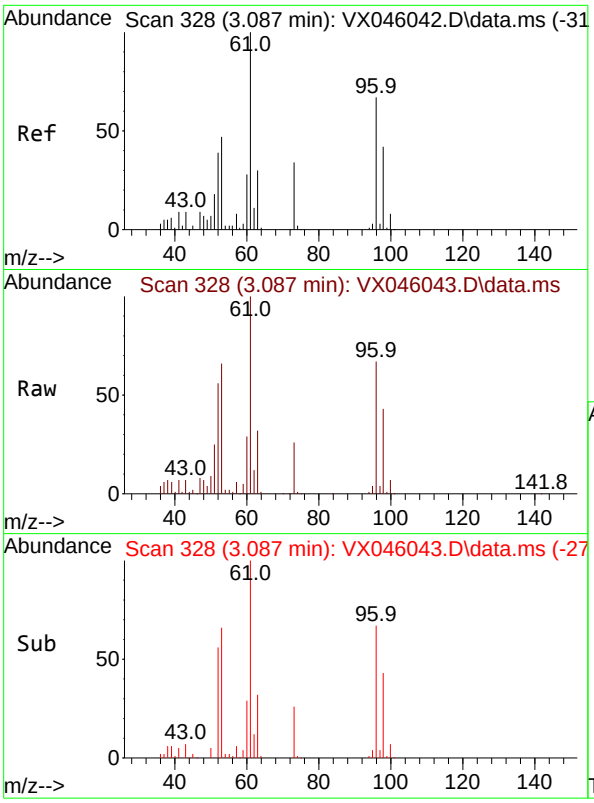


#20
Methylene Chloride
Concen: 67.030 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 84 Resp: 120270

Ion	Ratio	Lower	Upper
84	100		
49	136.4	113.9	170.9
51	41.1	33.5	50.3
86	64.0	53.8	80.8



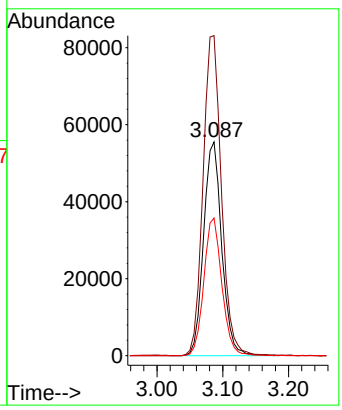


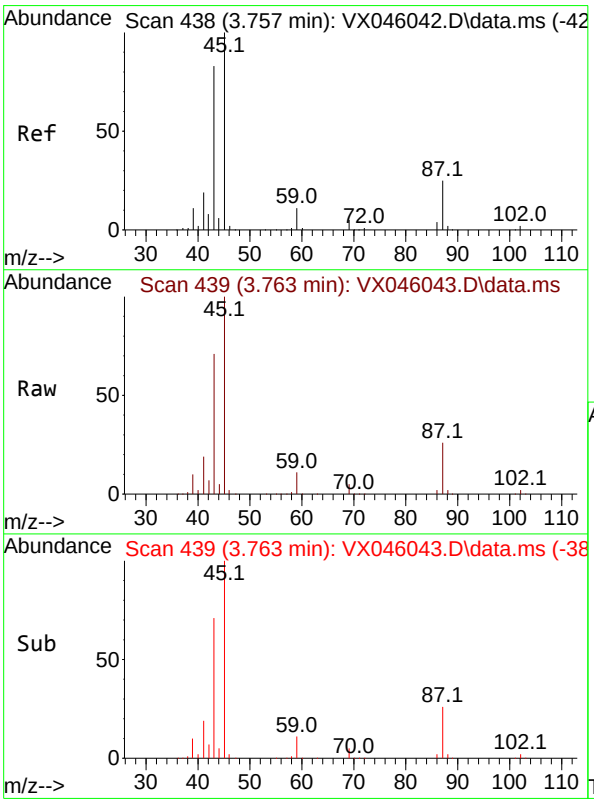
#21
trans-1,2-Dichloroethene
Concen: 71.109 ug/l
RT: 3.087 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 96 Resp: 106606

Ion	Ratio	Lower	Upper
96	100		
61	149.7	119.5	179.3
98	64.4	50.0	75.0

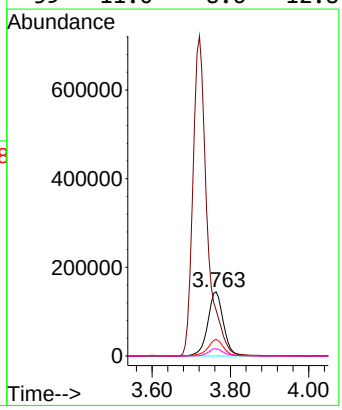


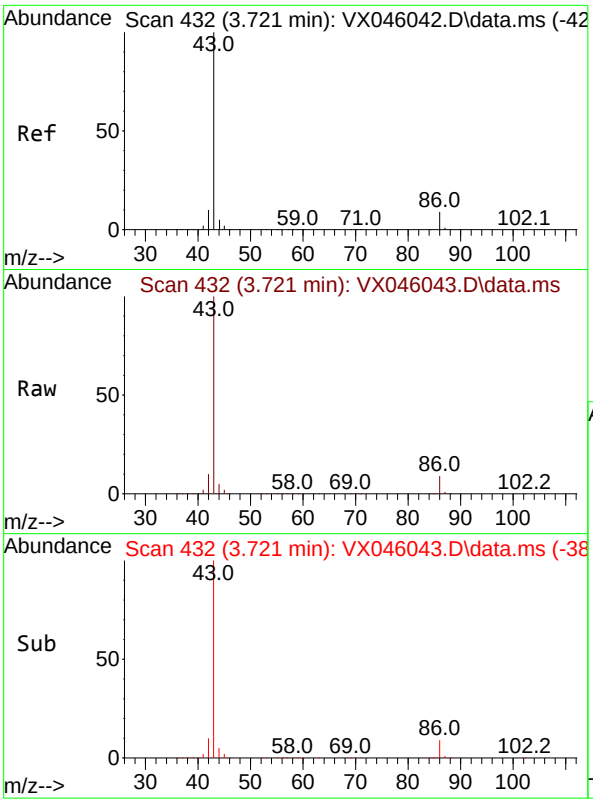


#22
Diisopropyl ether
Concen: 77.048 ug/l
RT: 3.763 min Scan# 439
Delta R.T. 0.006 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 45 Resp: 399494

Ion	Ratio	Lower	Upper
45	100		
43	71.2	66.6	100.0
87	25.7	19.8	29.6
59	11.0	8.6	12.8



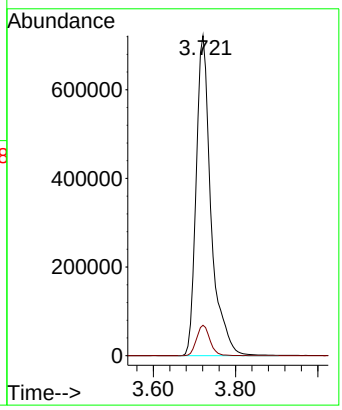


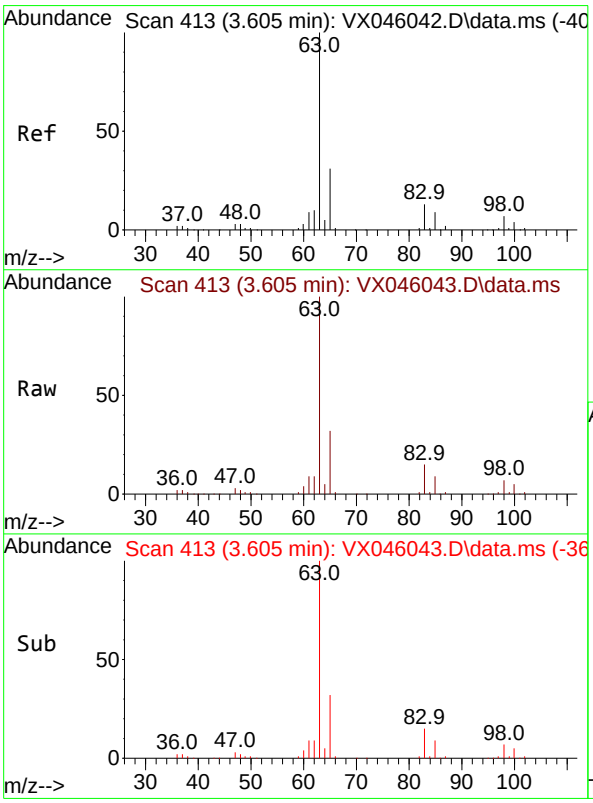
#23
Vinyl Acetate
Concen: 395.363 ug/l
RT: 3.721 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 1811550

Ion	Ratio	Lower	Upper
43	100		
86	9.5	7.5	11.3

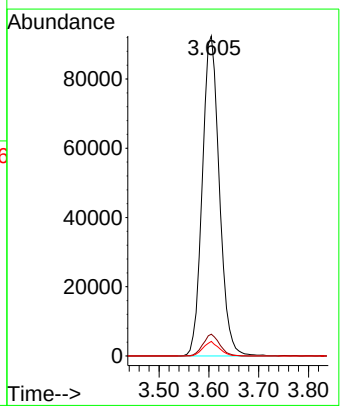


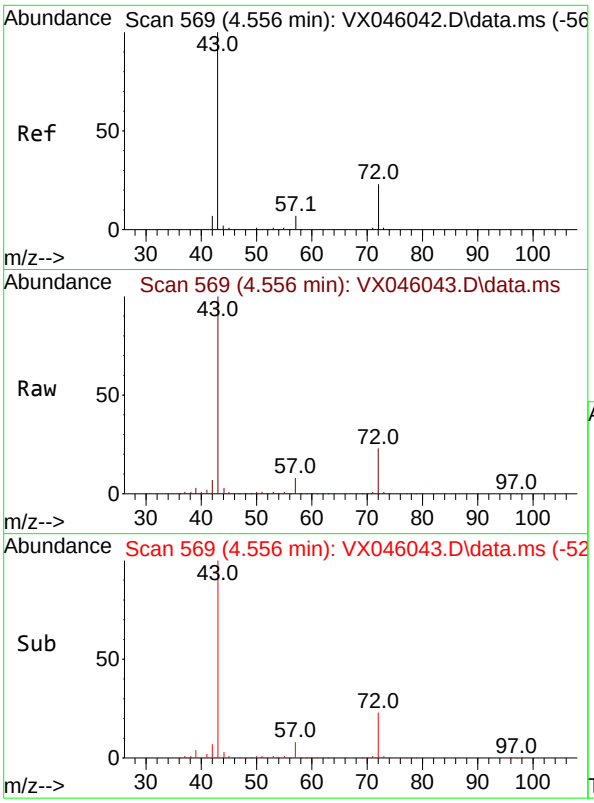


#24
1,1-Dichloroethane
Concen: 72.114 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 63 Resp: 219759

Ion	Ratio	Lower	Upper
63	100		
98	6.8	3.6	10.8
100	4.5	2.1	6.3



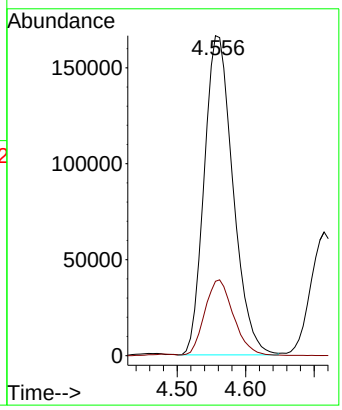


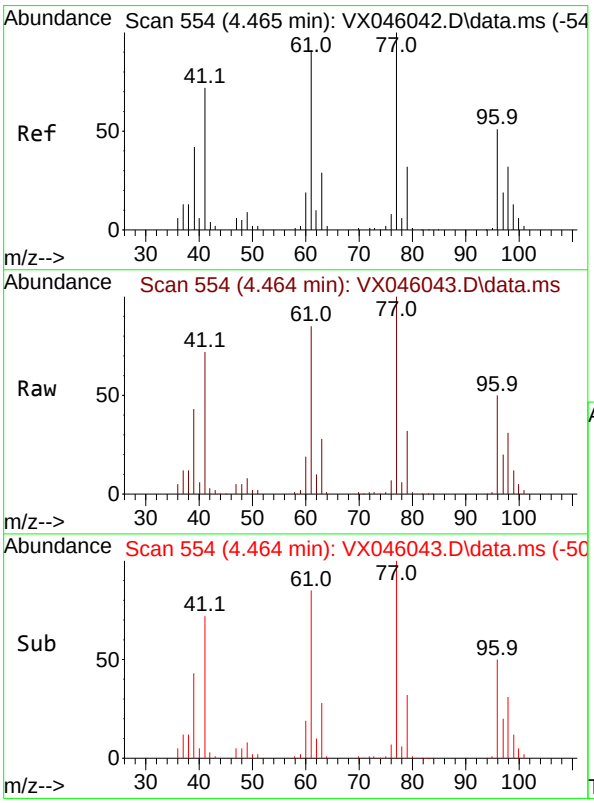
#25
2-Butanone
Concen: 379.704 ug/l
RT: 4.556 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 485448

Ion	Ratio	Lower	Upper
43	100		
72	23.1	18.4	27.6

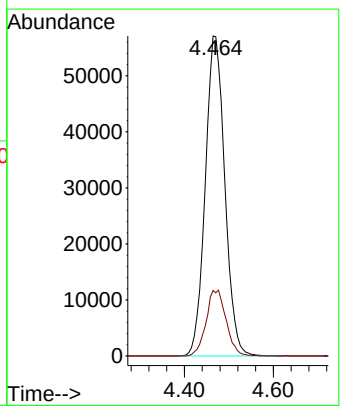


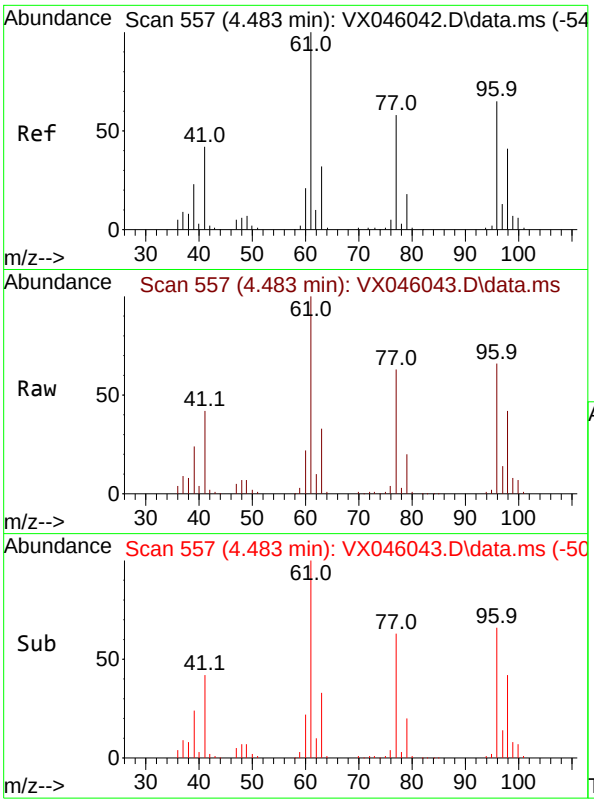


#26
2,2-Dichloropropane
Concen: 75.621 ug/l
RT: 4.464 min Scan# 554
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 77 Resp: 174579

Ion	Ratio	Lower	Upper
77	100		
97	21.1	10.5	31.5



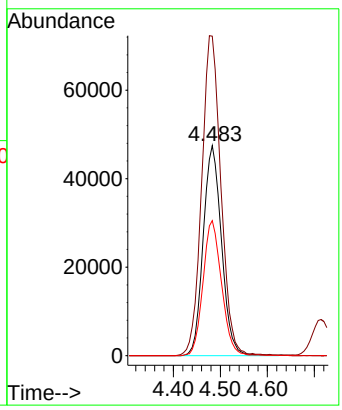


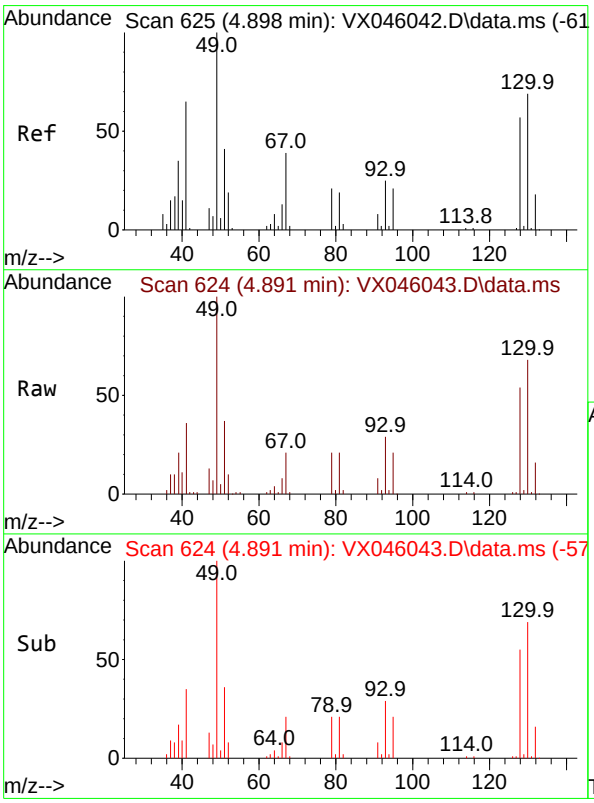
#27
cis-1,2-Dichloroethene
Concen: 71.056 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 96 Resp: 128454

Ion	Ratio	Lower	Upper
96	100		
61	160.1	0.0	322.8
98	64.9	0.0	129.0

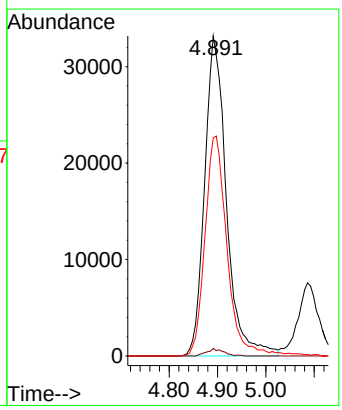


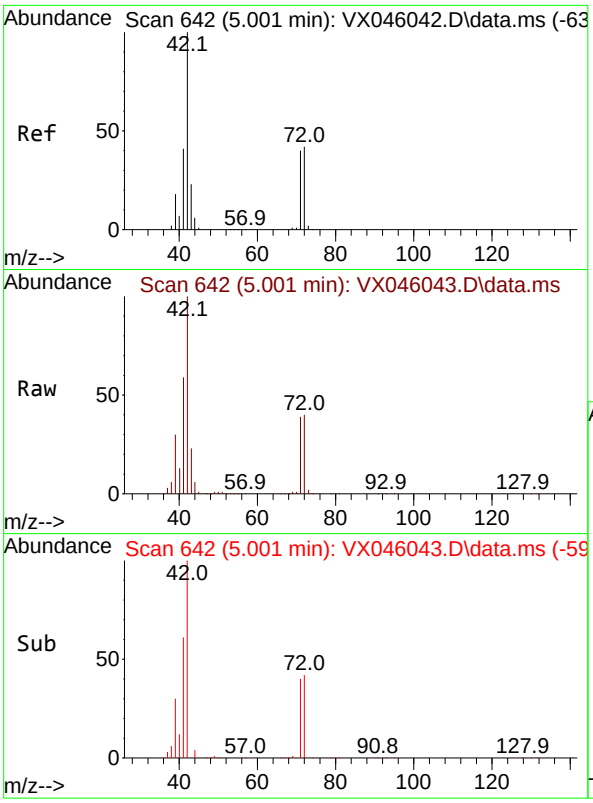


#28
Bromochloromethane
Concen: 63.932 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 49 Resp: 103602

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	4.0
130	70.1	56.2	84.2



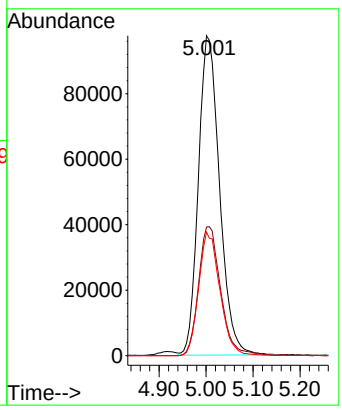


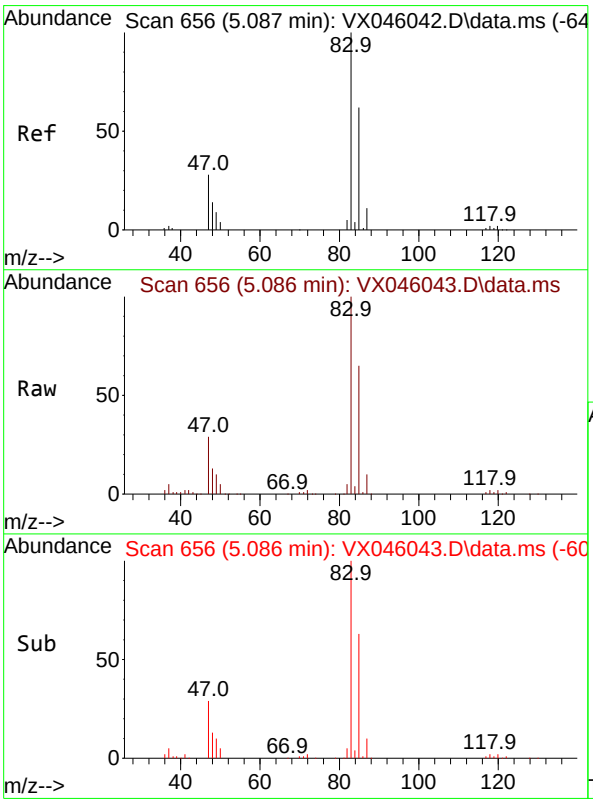
#29
Tetrahydrofuran
Concen: 368.234 ug/l
RT: 5.001 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 42 Resp: 305757

Ion	Ratio	Lower	Upper
42	100		
72	42.1	33.7	50.5
71	38.7	31.4	47.2

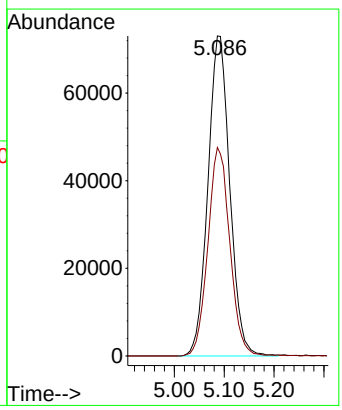


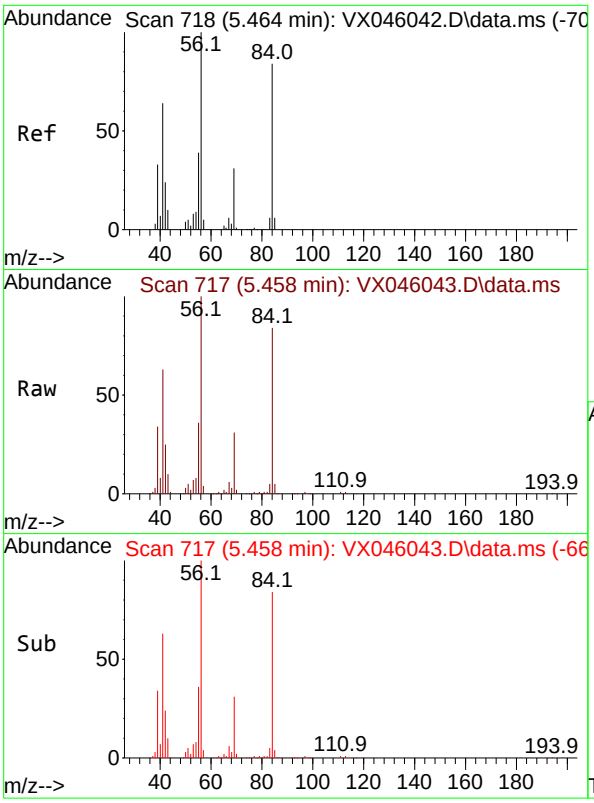


#30
Chloroform
Concen: 70.180 ug/l
RT: 5.086 min Scan# 656
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 83 Resp: 222253

Ion	Ratio	Lower	Upper
83	100		
85	65.1	49.3	73.9



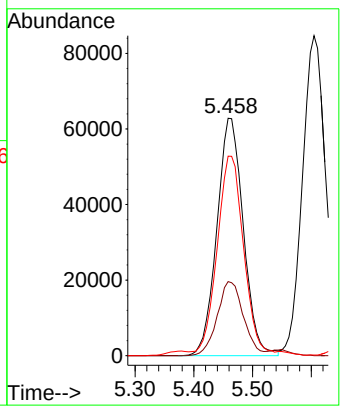


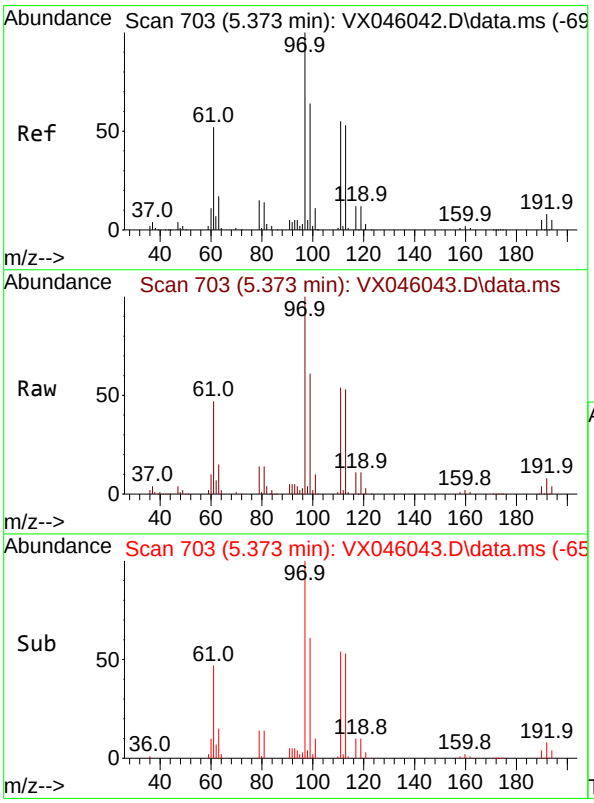
#31
Cyclohexane
Concen: 76.428 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 56 Resp: 196302

Ion	Ratio	Lower	Upper
56	100		
69	31.2	24.4	36.6
84	82.3	66.9	100.3

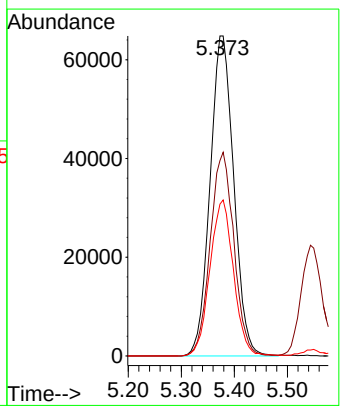


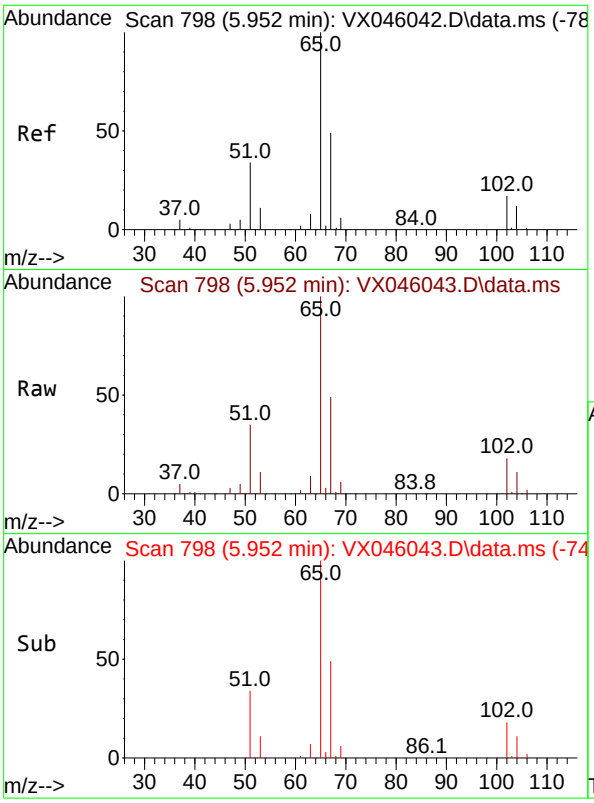


#32
1,1,1-Trichloroethane
Concen: 73.635 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 97 Resp: 201112

Ion	Ratio	Lower	Upper
97	100		
99	63.8	51.8	77.6
61	48.7	40.1	60.1



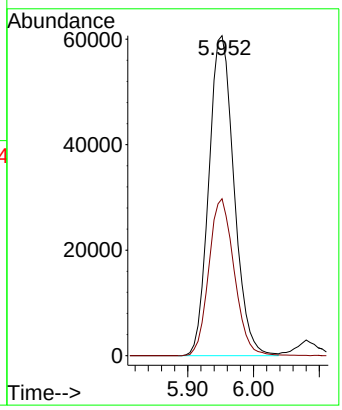


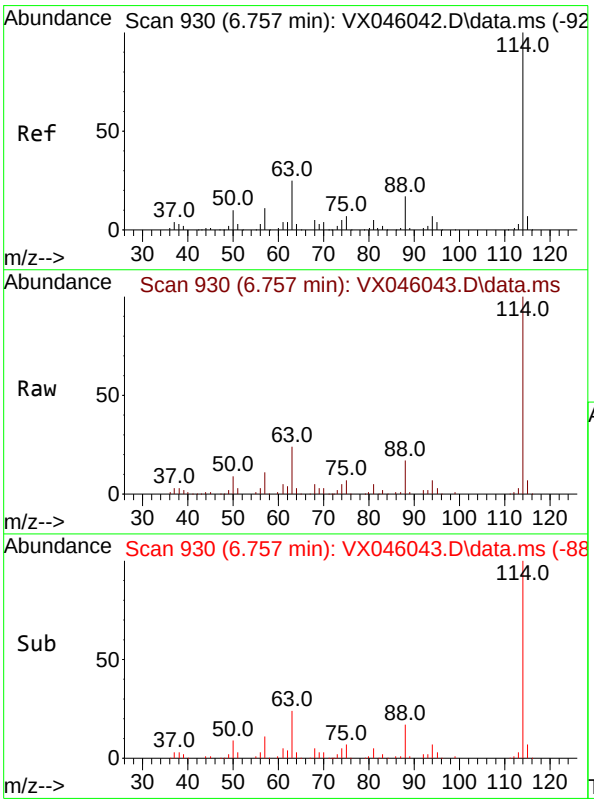
#33
1,2-Dichloroethane-d4
Concen: 62.526 ug/l
RT: 5.952 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 65 Resp: 161877

Ion	Ratio	Lower	Upper
65	100		
67	49.5	0.0	99.0

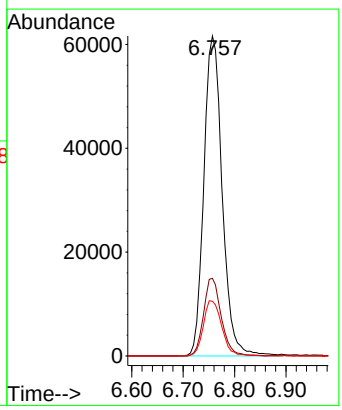


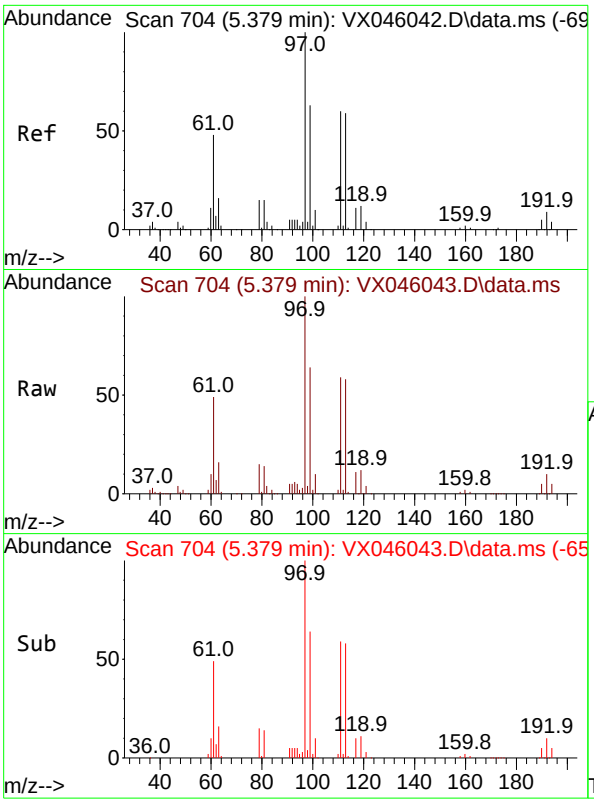


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion:114 Resp: 152958

Ion	Ratio	Lower	Upper
114	100		
63	24.3	0.0	49.2
88	17.1	0.0	33.6



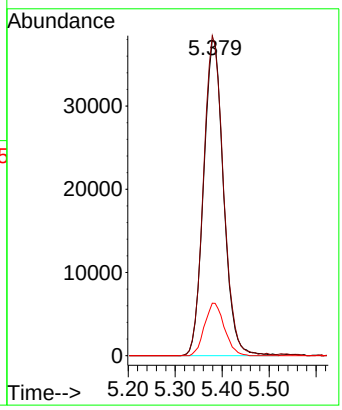


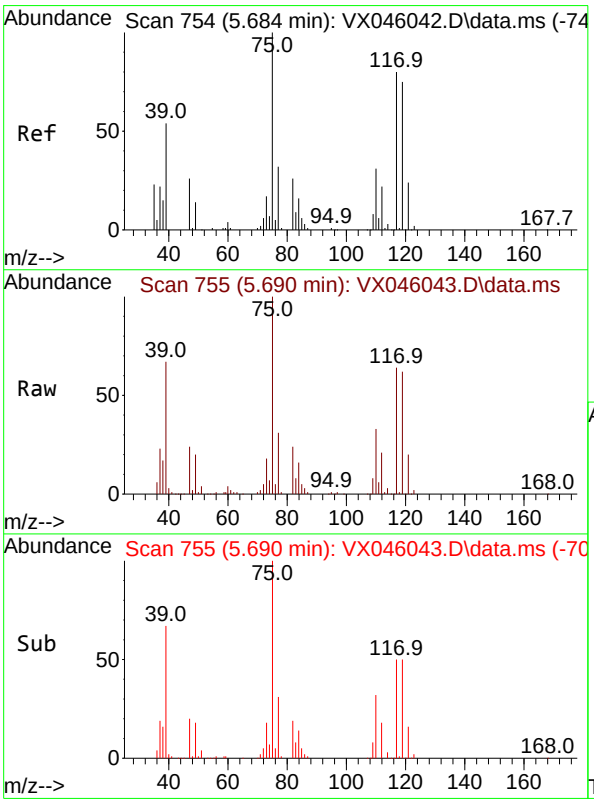
#35
Dibromofluoromethane
Concen: 65.006 ug/l
RT: 5.379 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:113 Resp: 111455

Ion	Ratio	Lower	Upper
113	100		
111	101.7	83.1	124.7
192	16.6	13.3	19.9

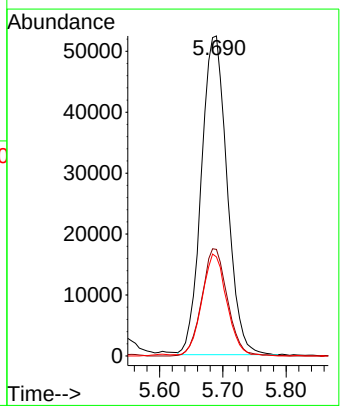


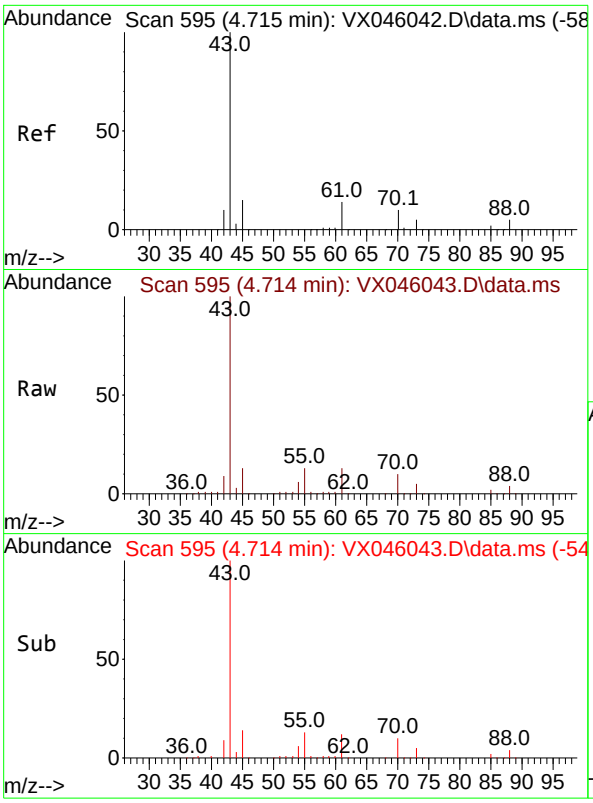


#36
1,1-Dichloropropene
Concen: 74.285 ug/l
RT: 5.690 min Scan# 755
Delta R.T. 0.006 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 75 Resp: 147873

Ion	Ratio	Lower	Upper
75	100		
110	33.5	16.3	48.9
77	31.1	24.3	36.5



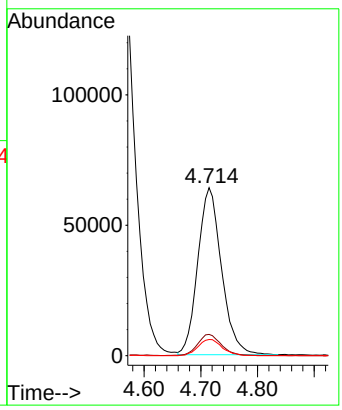


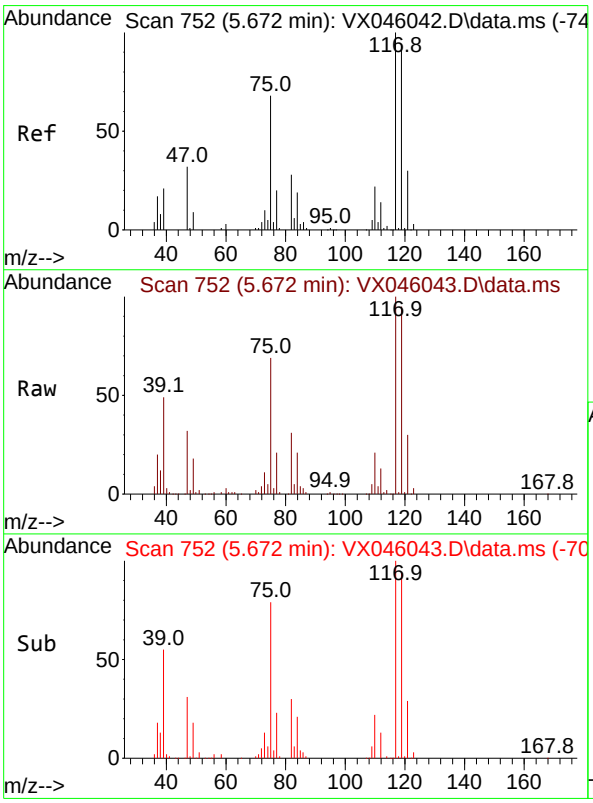
#37
Ethyl Acetate
Concen: 74.565 ug/l
RT: 4.714 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 186215

Ion	Ratio	Lower	Upper
43	100		
61	12.4	10.3	15.5
70	9.9	7.9	11.9

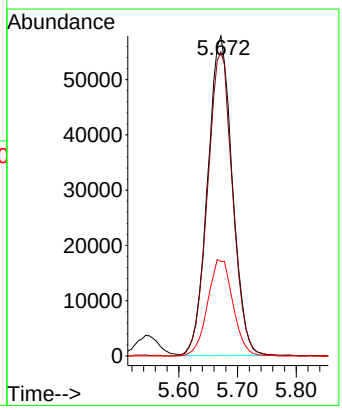


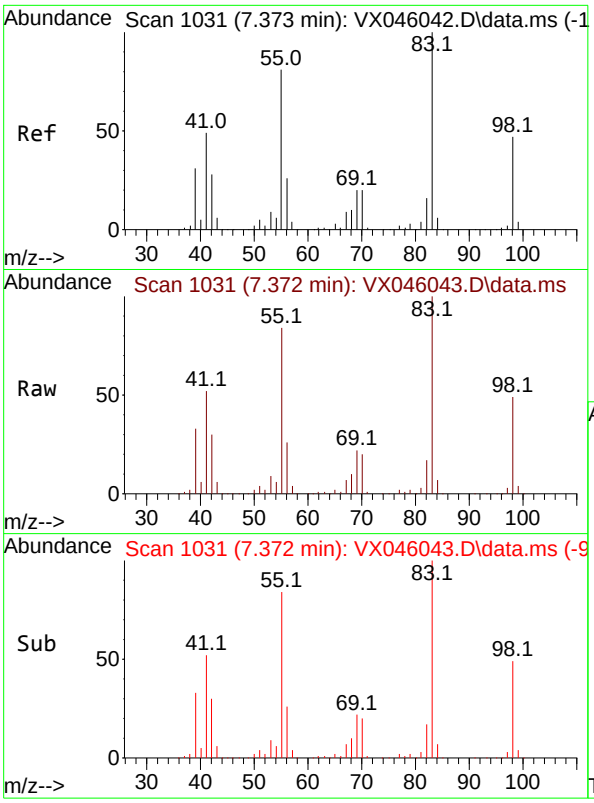


#38
Carbon Tetrachloride
Concen: 73.875 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion:117 Resp: 168946

Ion	Ratio	Lower	Upper
117	100		
119	95.0	75.2	112.8
121	29.6	24.2	36.4



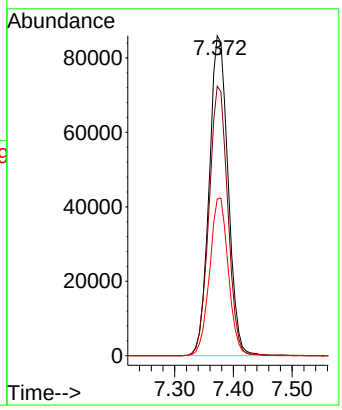


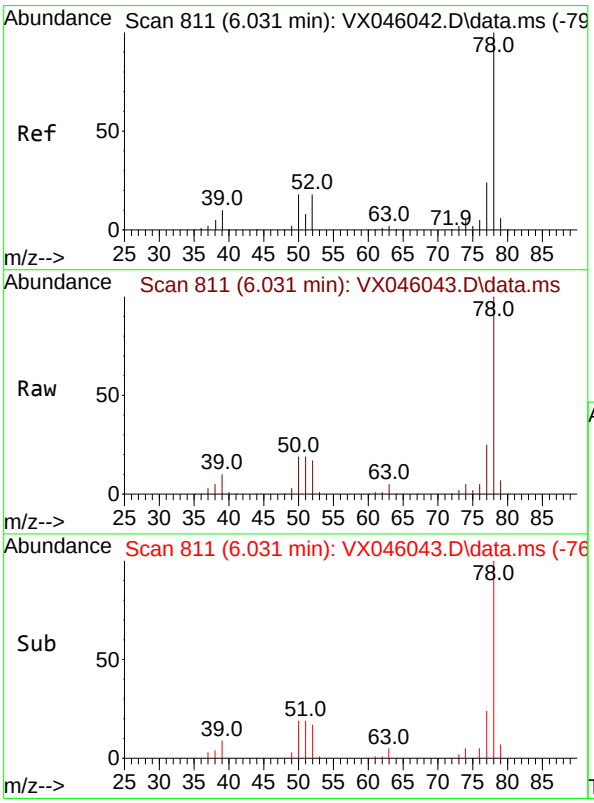
#39
Methylcyclohexane
Concen: 76.952 ug/l
RT: 7.372 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 83 Resp: 191941

Ion	Ratio	Lower	Upper
83	100		
55	84.2	64.7	97.1
98	49.0	37.4	56.2

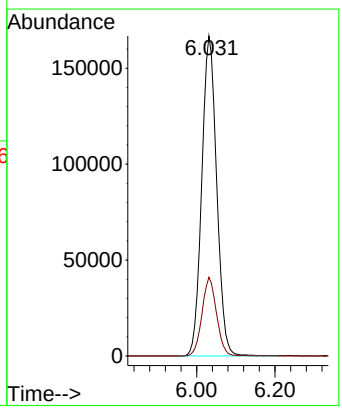


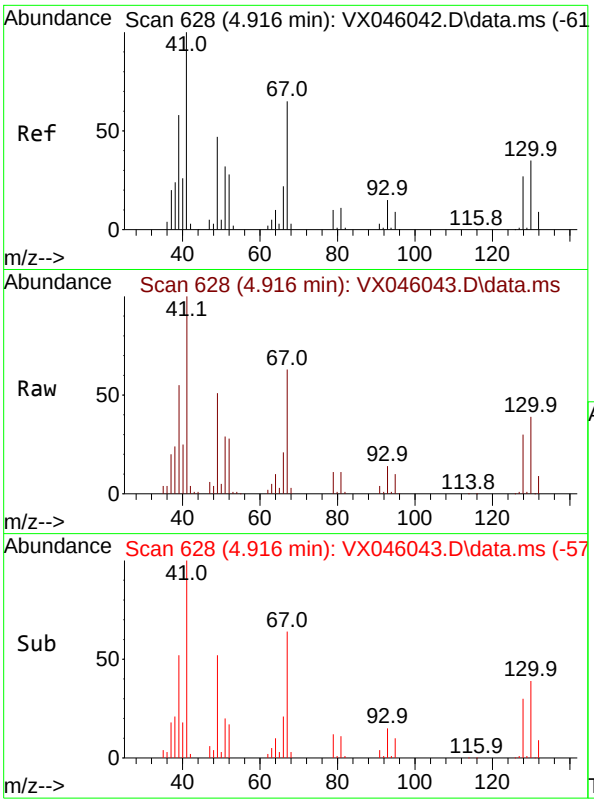


#40
Benzene
Concen: 71.457 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 78 Resp: 440885

Ion	Ratio	Lower	Upper
78	100		
77	24.6	19.0	28.4



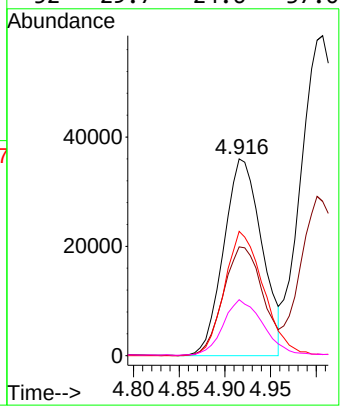


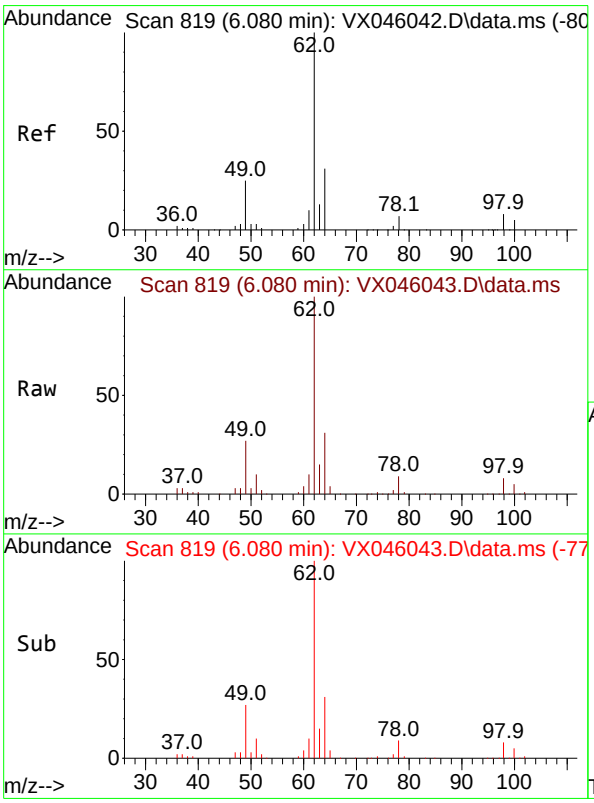
#41
Methacrylonitrile
Concen: 75.574 ug/l
RT: 4.916 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 41 Resp: 104863

Ion	Ratio	Lower	Upper
41	100		
39	57.0	47.2	70.8
67	64.6	50.7	76.1
52	29.7	24.6	37.0

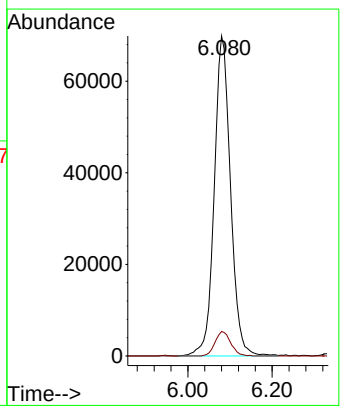


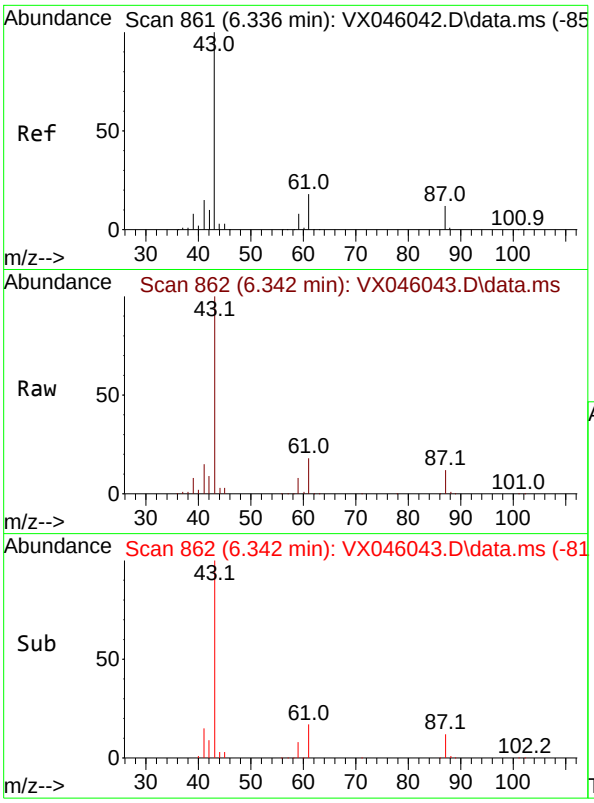


#42
1,2-Dichloroethane
Concen: 73.318 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 62 Resp: 187036

Ion	Ratio	Lower	Upper
62	100		
98	7.4	0.0	15.2



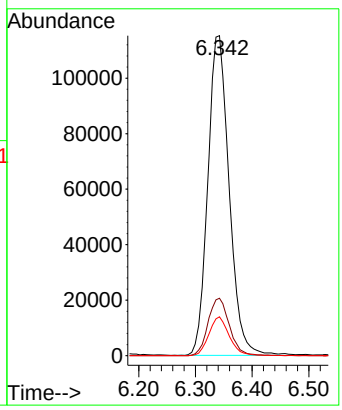


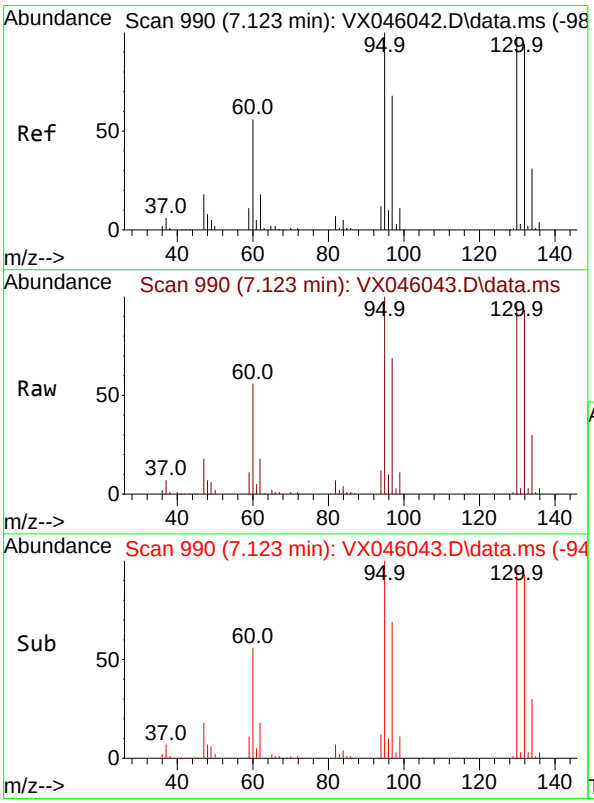
#43
Isopropyl Acetate
Concen: 78.714 ug/l
RT: 6.342 min Scan# 8
Delta R.T. 0.006 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 300491

Ion	Ratio	Lower	Upper
43	100		
61	18.0	14.3	21.5
87	11.6	9.5	14.3

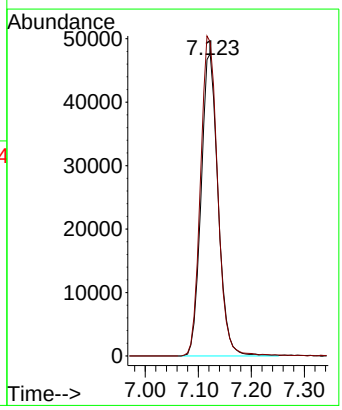


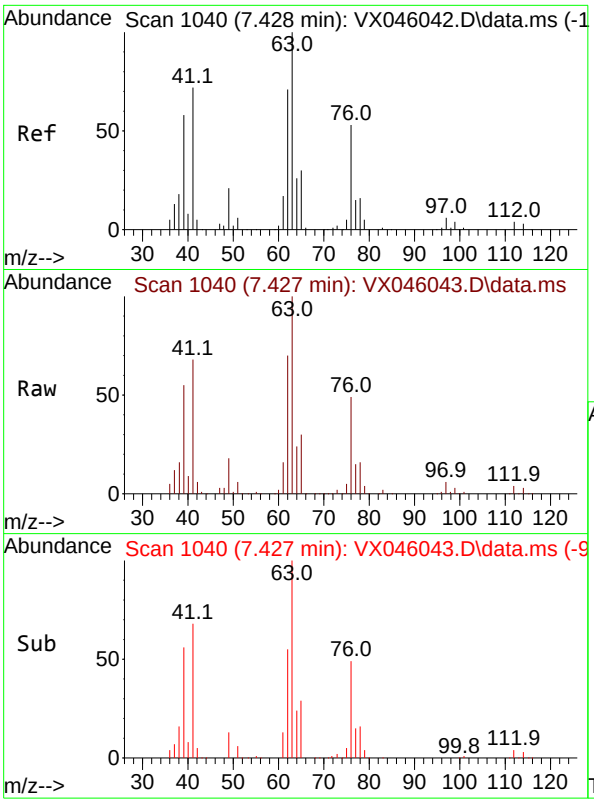


#44
Trichloroethene
Concen: 72.420 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion:130 Resp: 105628

Ion	Ratio	Lower	Upper
130	100		
95	103.8	0.0	204.2



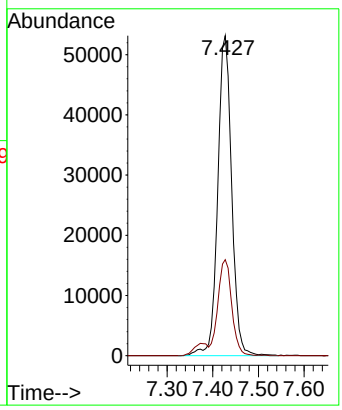


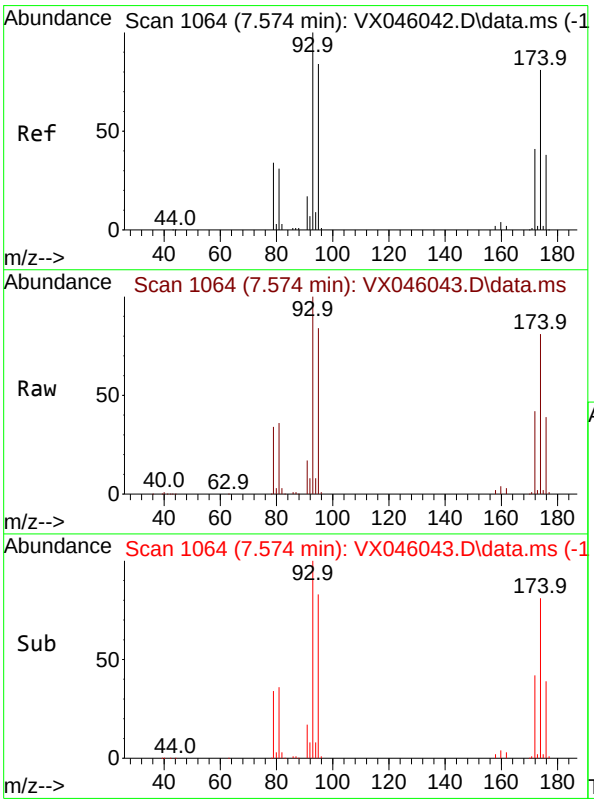
#45
1,2-Dichloropropane
Concen: 73.420 ug/l
RT: 7.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 63 Resp: 112554

Ion	Ratio	Lower	Upper
63	100		
65	30.0	24.1	36.1

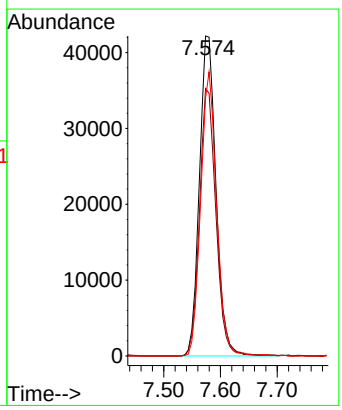


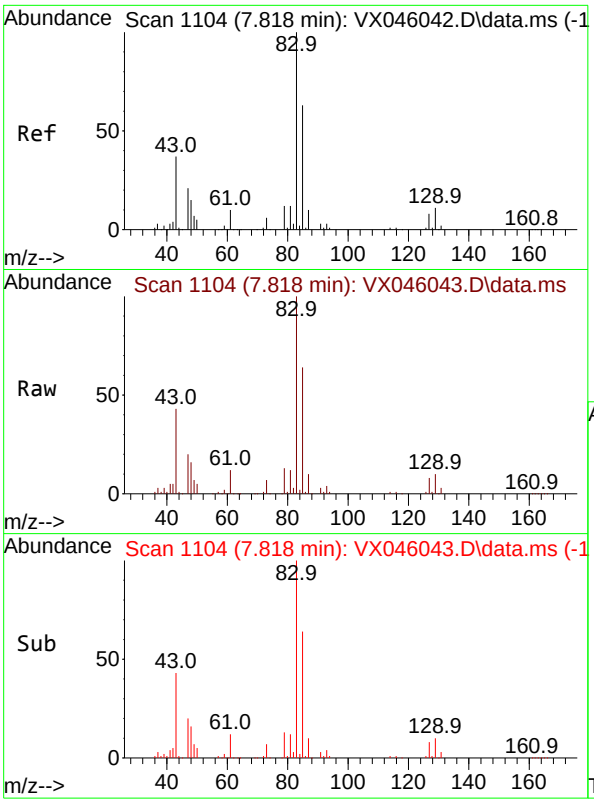


#46
Dibromomethane
Concen: 70.938 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 93 Resp: 85728

Ion	Ratio	Lower	Upper
93	100		
95	82.4	65.6	98.4
174	85.0	68.2	102.2



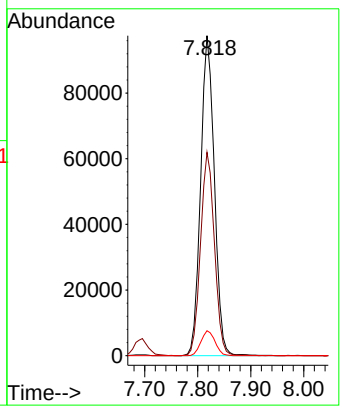


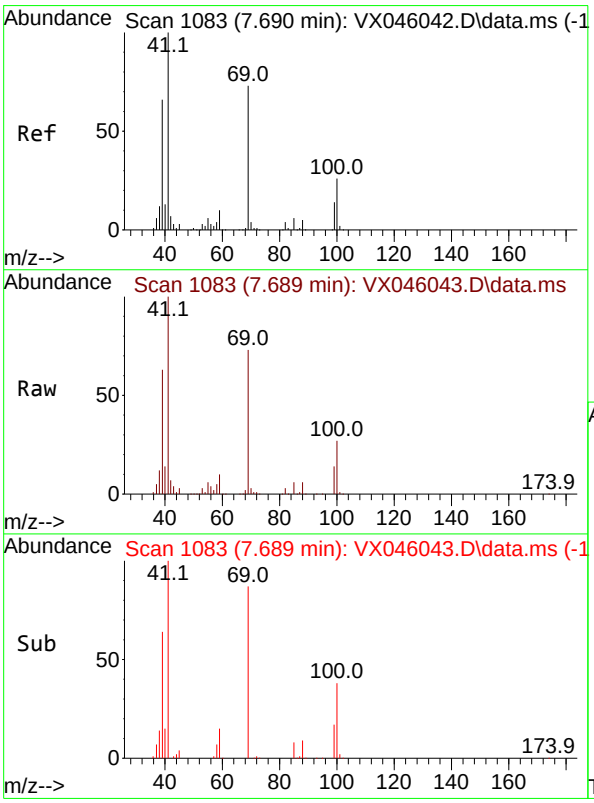
#47
Bromodichloromethane
Concen: 74.845 ug/l
RT: 7.818 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 83 Resp: 175301

Ion	Ratio	Lower	Upper
83	100		
85	63.6	50.5	75.7
127	7.8	6.5	9.7

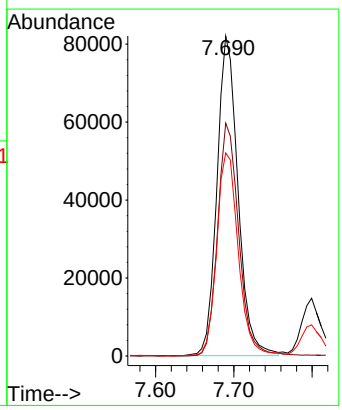


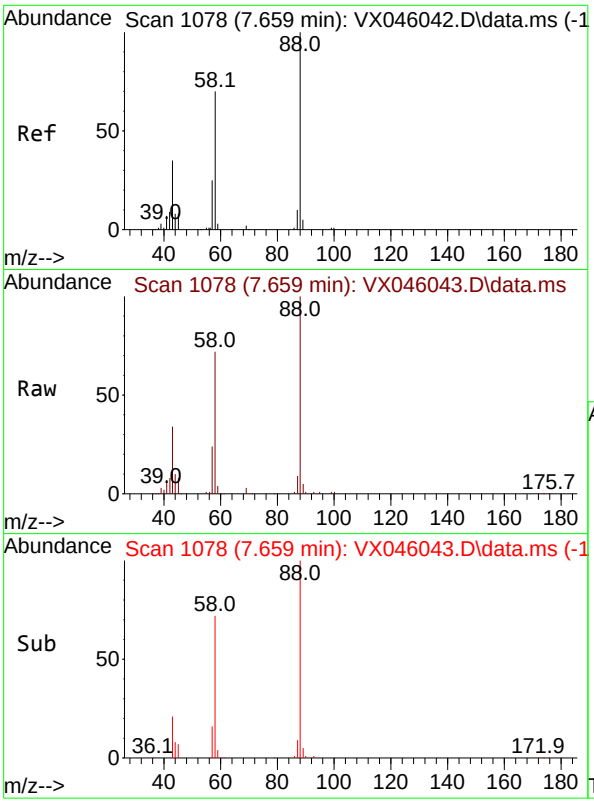


#48
Methyl methacrylate
Concen: 78.101 ug/l
RT: 7.689 min Scan# 1083
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 41 Resp: 153093

Ion	Ratio	Lower	Upper
41	100		
69	74.1	58.5	87.7
39	65.5	51.7	77.5



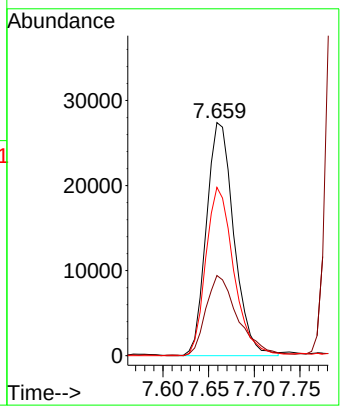


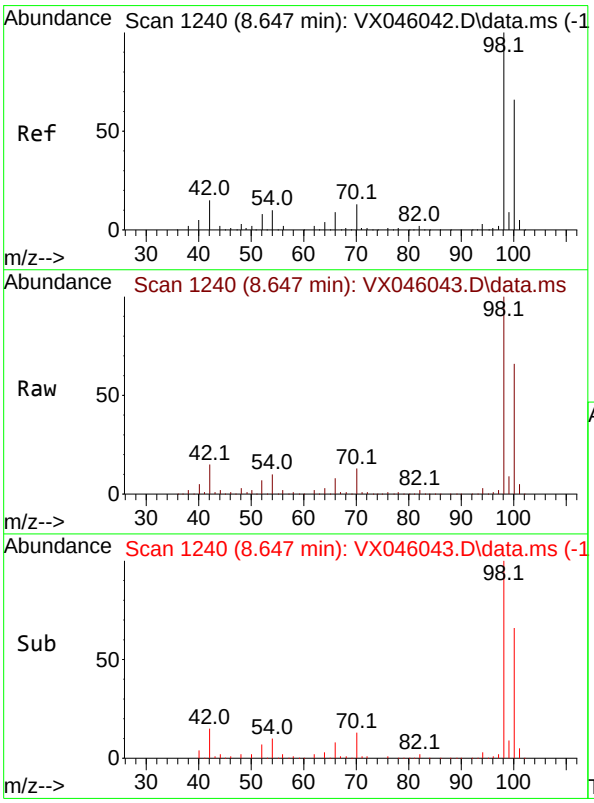
#49
1,4-Dioxane
Concen: 1470.687 ug/l
RT: 7.659 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 88 Resp: 57313

Ion	Ratio	Lower	Upper
88	100		
43	40.1	33.4	50.2
58	73.3	58.6	88.0

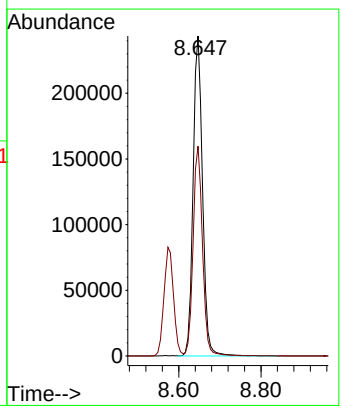


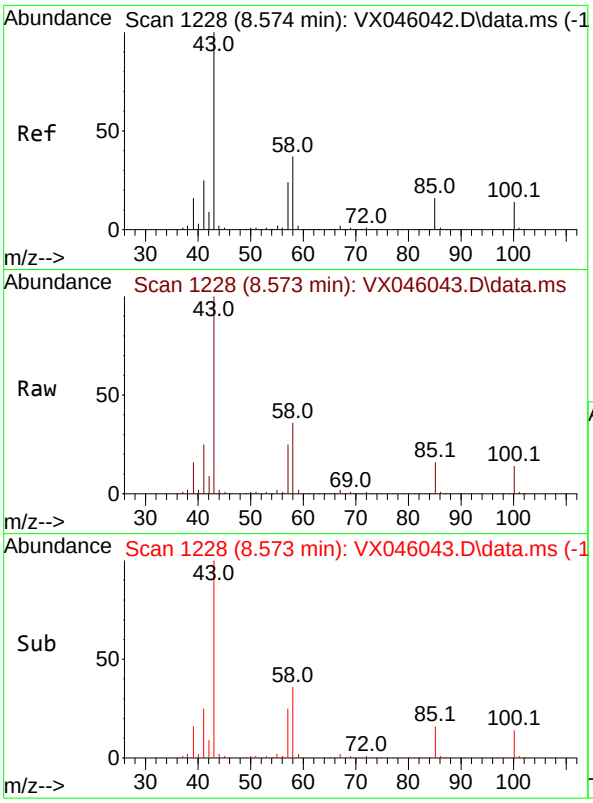


#50
Toluene-d8
Concen: 67.031 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 98 Resp: 387230

Ion	Ratio	Lower	Upper
98	100		
100	65.2	53.5	80.3



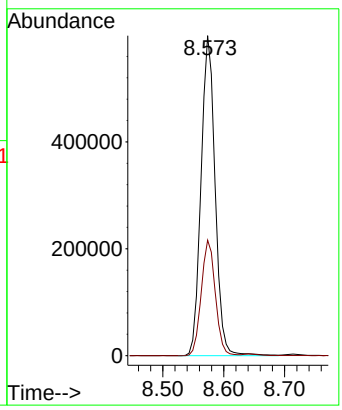


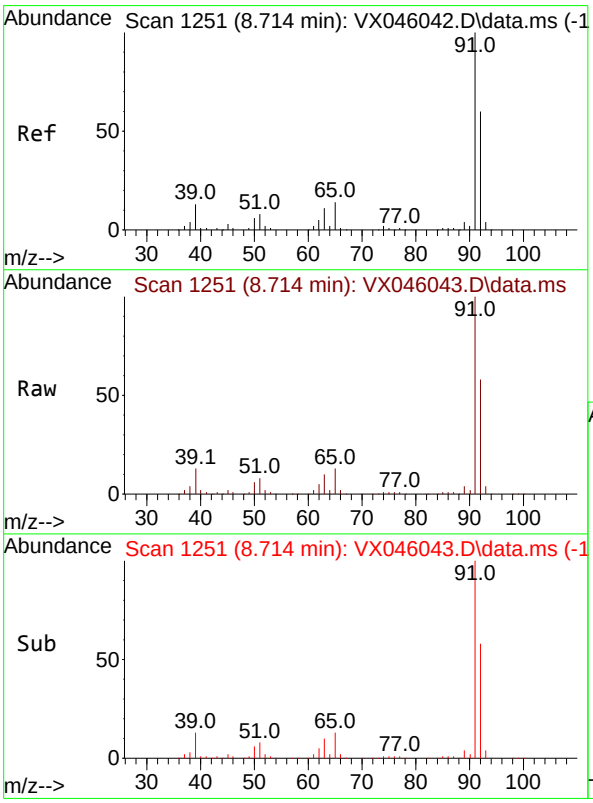
#51
4-Methyl-2-Pentanone
Concen: 384.740 ug/l
RT: 8.573 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 963319

Ion	Ratio	Lower	Upper
43	100		
58	36.1	28.9	43.3

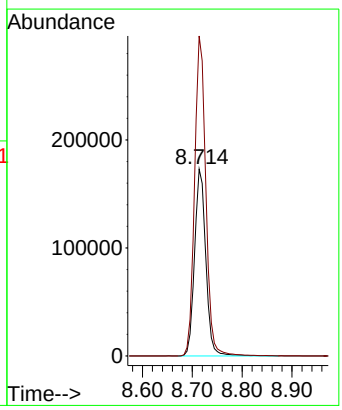


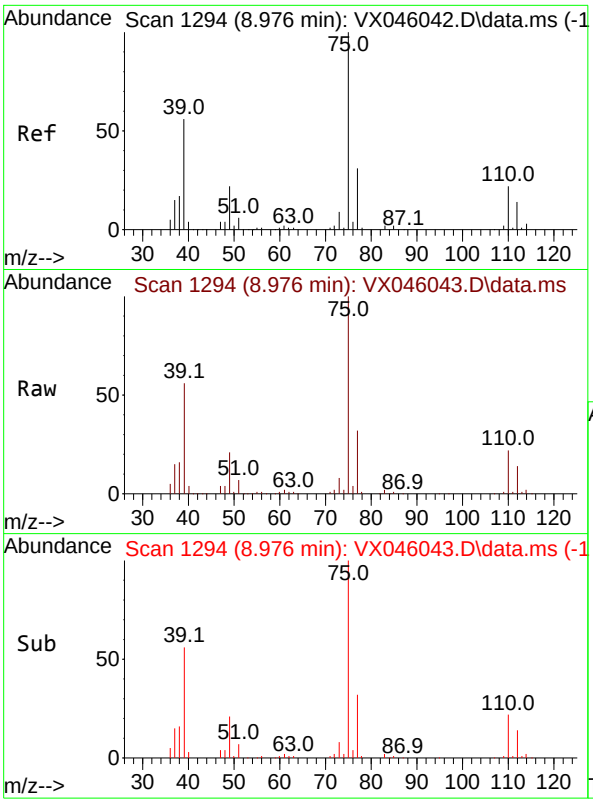


#52
Toluene
Concen: 74.010 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 92 Resp: 270763

Ion	Ratio	Lower	Upper
92	100		
91	171.2	136.6	205.0



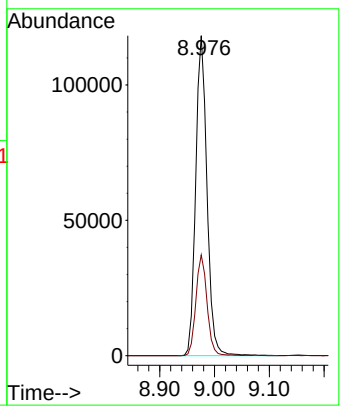


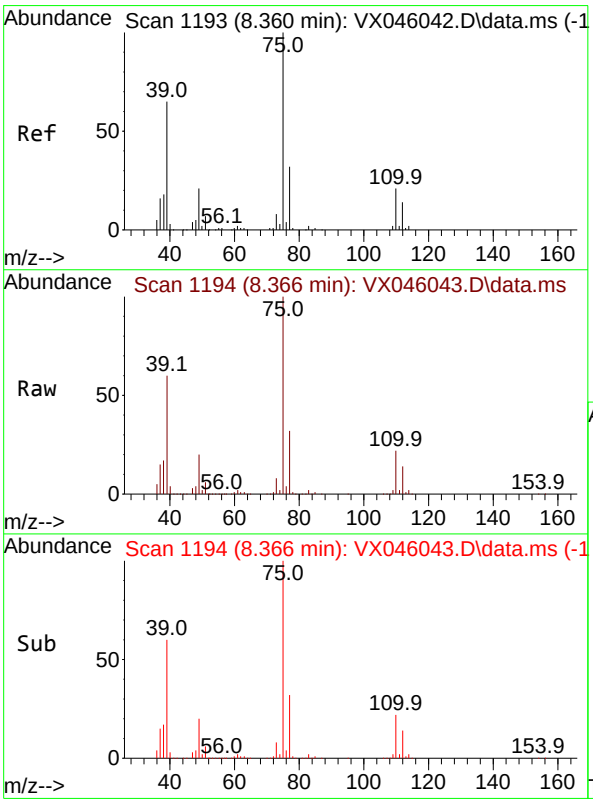
#53
t-1,3-Dichloropropene
Concen: 86.372 ug/l
RT: 8.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 75 Resp: 169863

Ion	Ratio	Lower	Upper
75	100		
77	31.5	25.0	37.6

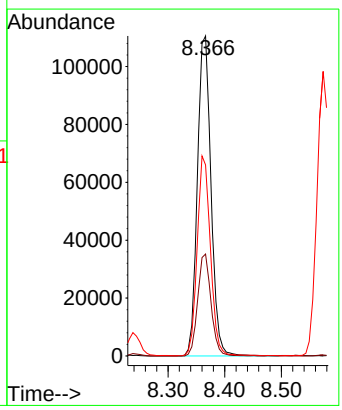


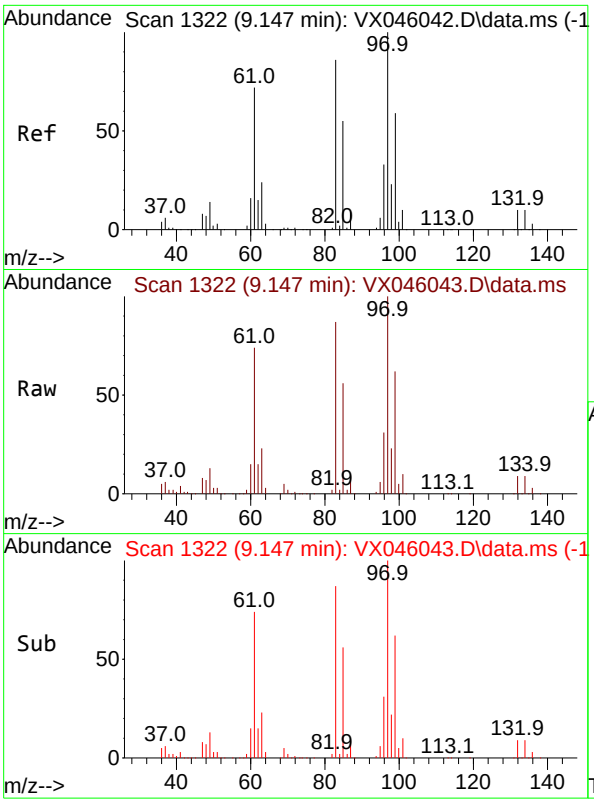


#54
cis-1,3-Dichloropropene
Concen: 80.264 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.006 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 75 Resp: 184134

Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.4	38.0
39	59.6	52.2	78.4



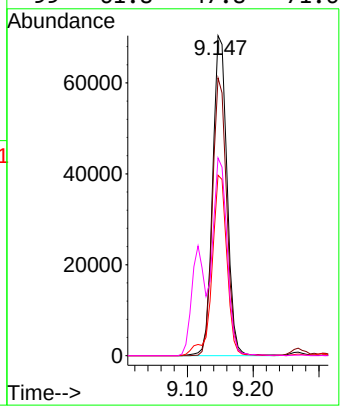


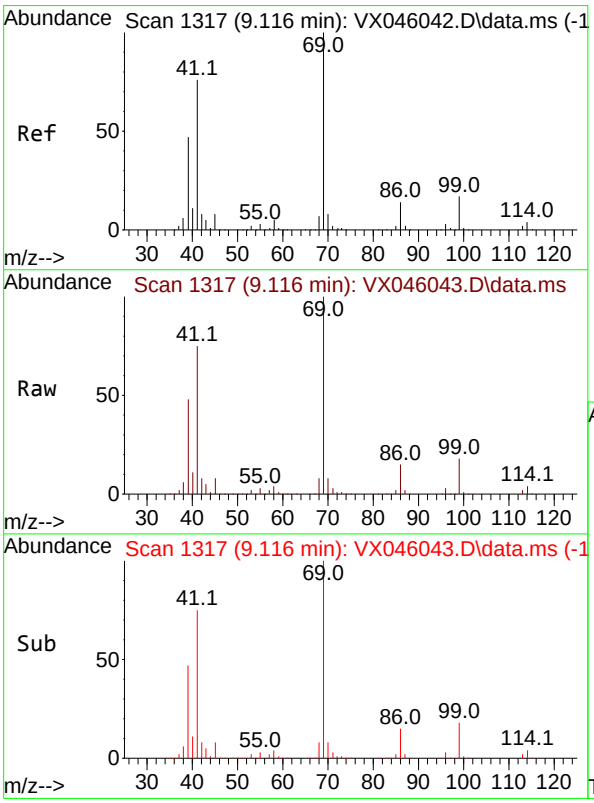
#55
1,1,2-Trichloroethane
Concen: 72.543 ug/l
RT: 9.147 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 97 Resp: 107264

Ion	Ratio	Lower	Upper
97	100		
83	86.8	69.0	103.6
85	56.4	44.3	66.5
99	61.8	47.8	71.6

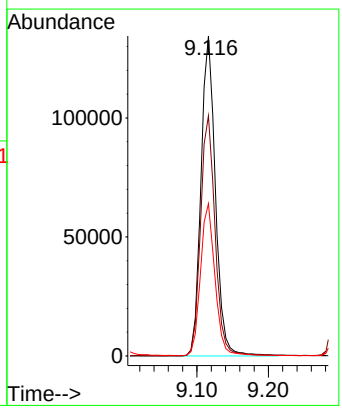


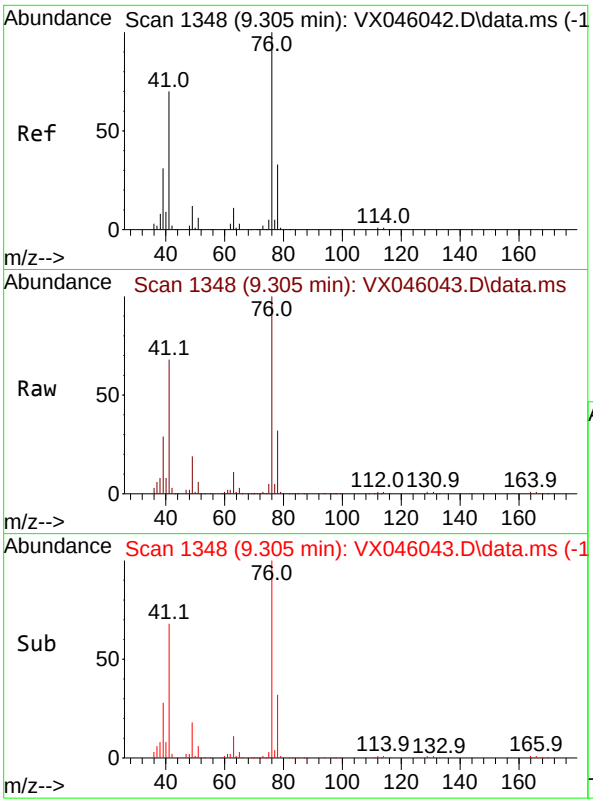


#56
Ethyl methacrylate
Concen: 82.359 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 69 Resp: 188717

Ion	Ratio	Lower	Upper
69	100		
41	75.7	60.8	91.2
39	47.7	39.0	58.6



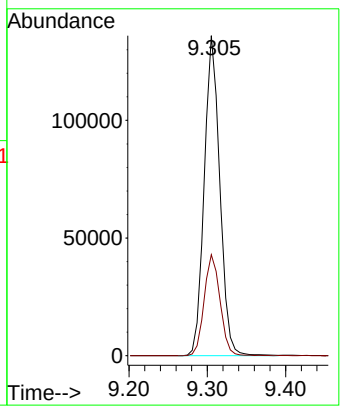


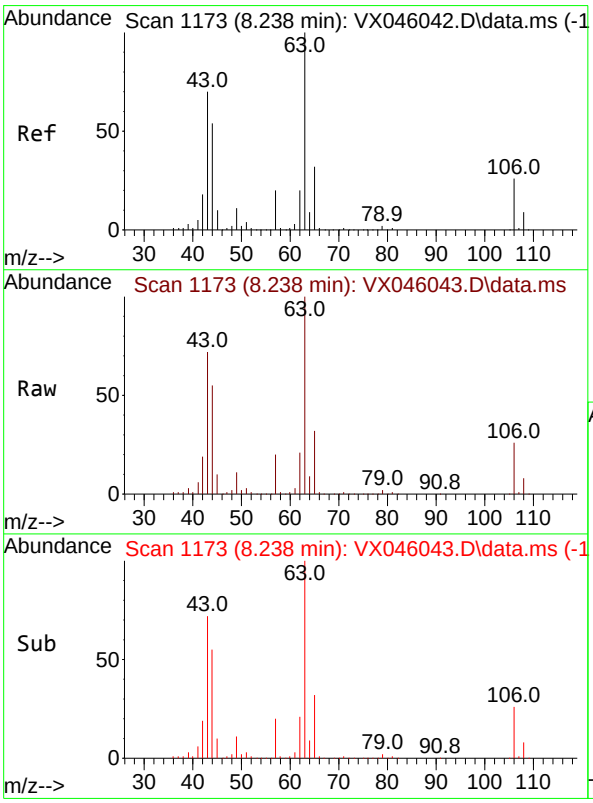
#57
1,3-Dichloropropane
Concen: 71.590 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 76 Resp: 187649

Ion	Ratio	Lower	Upper
76	100		
78	32.1	26.3	39.5

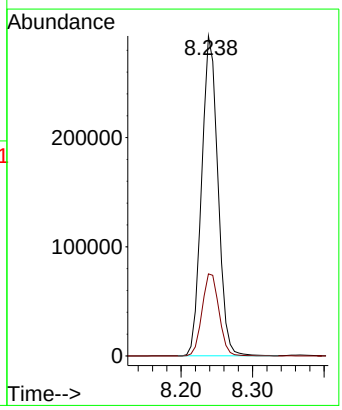


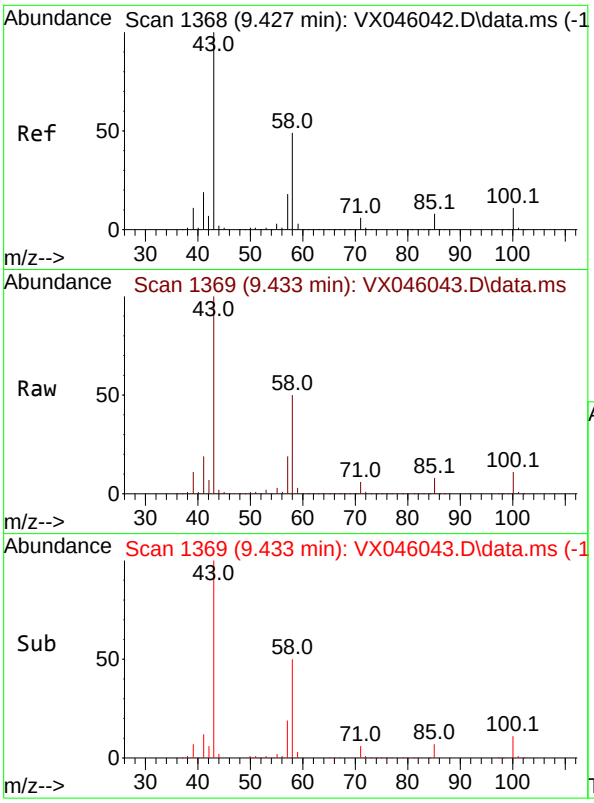


#58
2-Chloroethyl Vinyl ether
Concen: 449.791 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 63 Resp: 463169

Ion	Ratio	Lower	Upper
63	100		
106	26.7	21.5	32.3



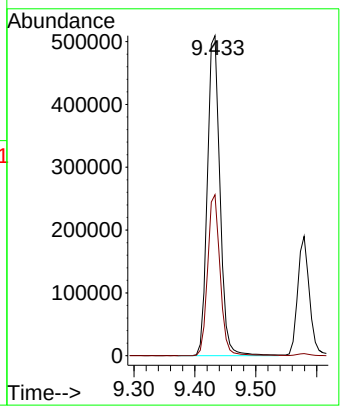


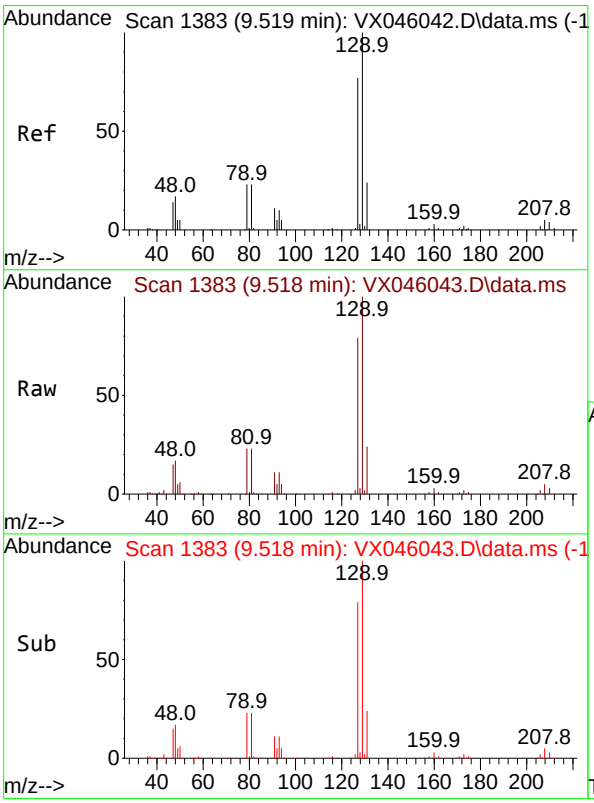
#59
2-Hexanone
Concen: 383.945 ug/l
RT: 9.433 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 729602

Ion	Ratio	Lower	Upper
43	100		
58	49.9	24.9	74.6

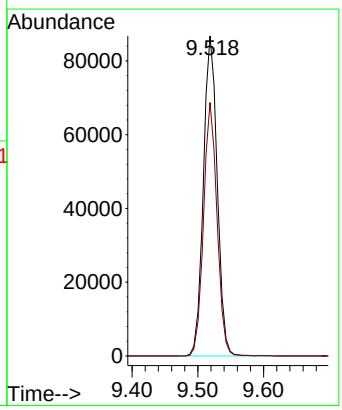


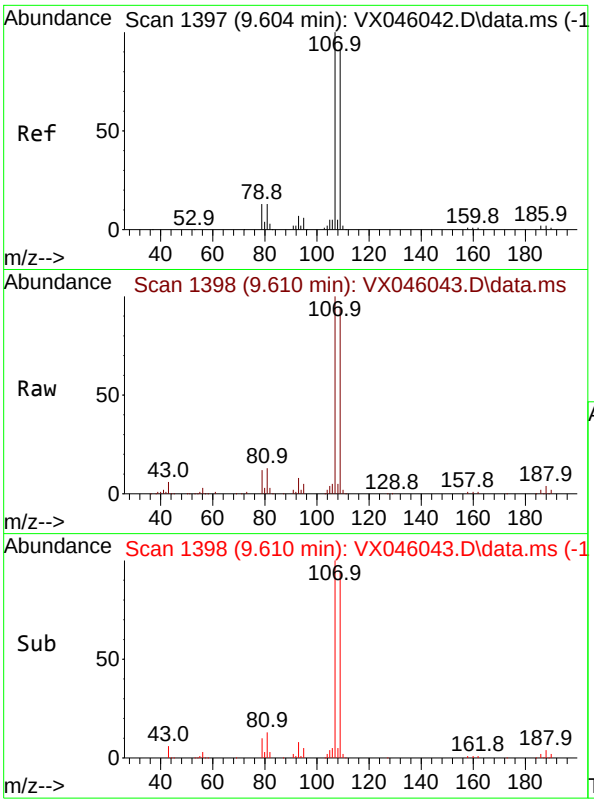


#60
Dibromochloromethane
Concen: 78.918 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion:129 Resp: 127012

Ion	Ratio	Lower	Upper
129	100		
127	77.0	39.3	117.8



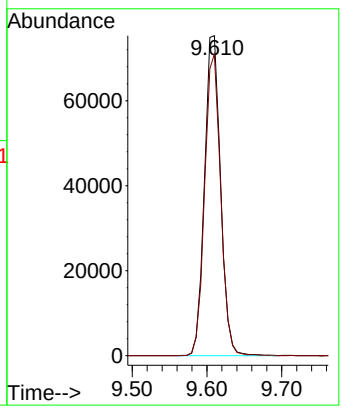


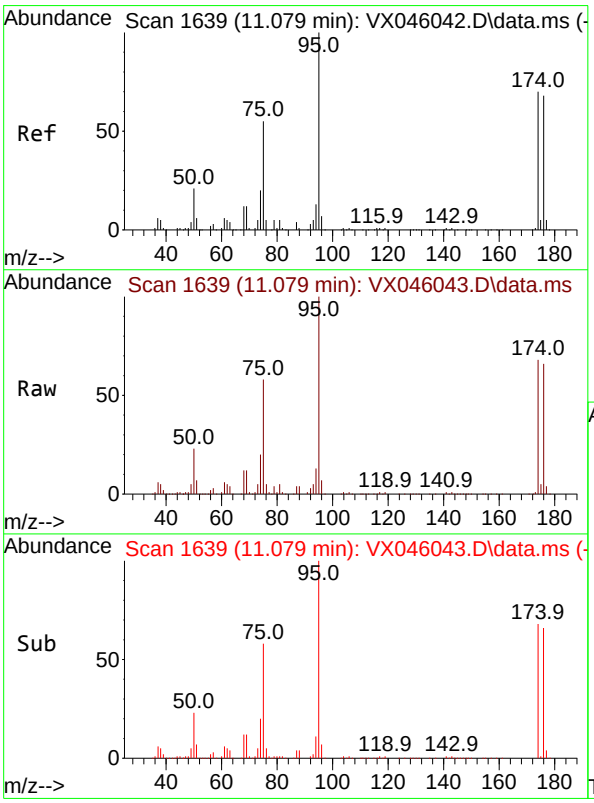
#61
1,2-Dibromoethane
Concen: 74.200 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:107 Resp: 112669

Ion	Ratio	Lower	Upper
107	100		
109	93.9	73.3	109.9

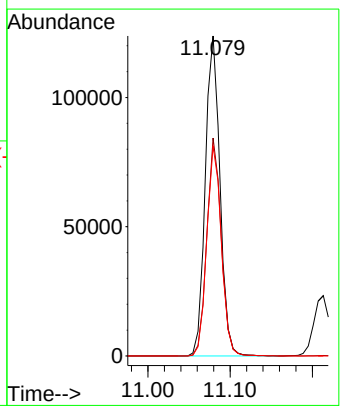


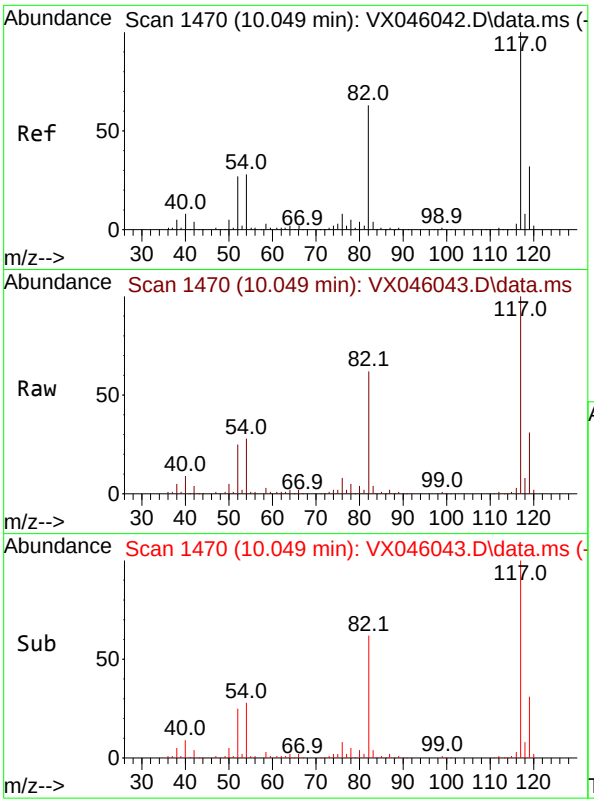


#62
4-Bromofluorobenzene
Concen: 72.818 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 95 Resp: 153085

Ion	Ratio	Lower	Upper
95	100		
174	67.1	0.0	135.8
176	65.3	0.0	131.4



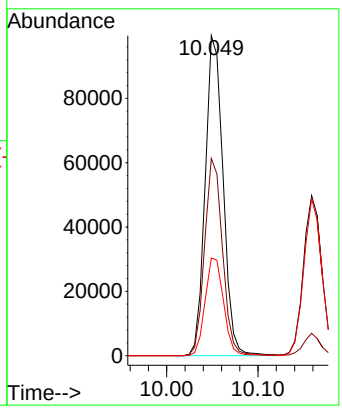


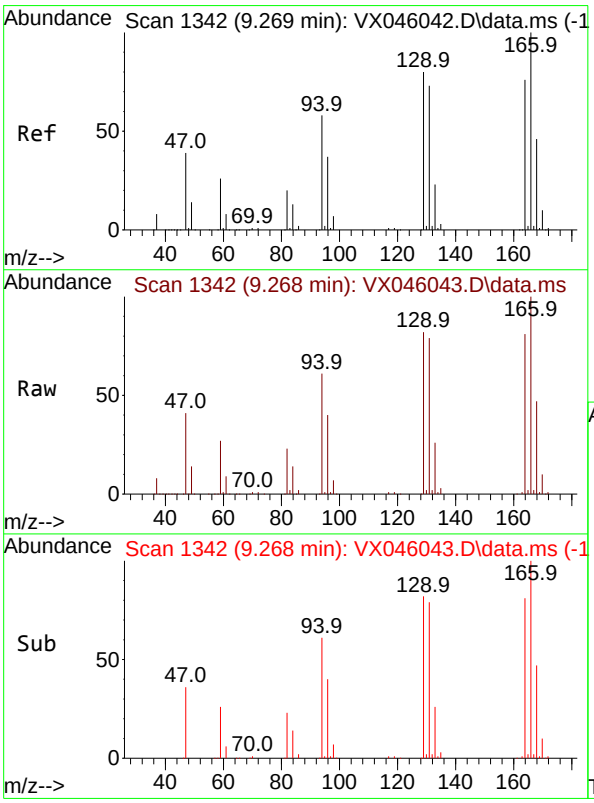
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:117 Resp: 135214

Ion	Ratio	Lower	Upper
117	100		
82	61.7	50.6	76.0
119	30.6	25.8	38.6

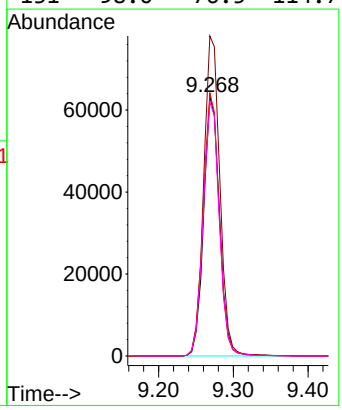


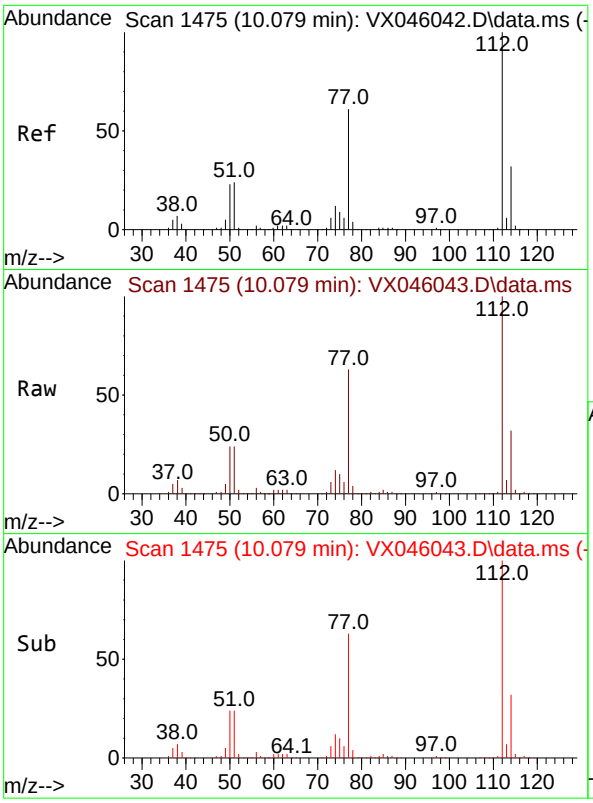


#64
Tetrachloroethene
Concen: 67.493 ug/l
RT: 9.268 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion:164 Resp: 93195

Ion	Ratio	Lower	Upper
164	100		
166	123.4	105.0	157.6
129	101.4	83.5	125.3
131	98.0	76.5	114.7



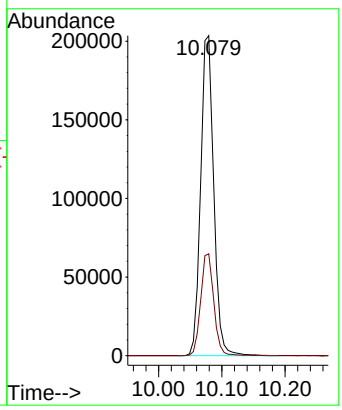


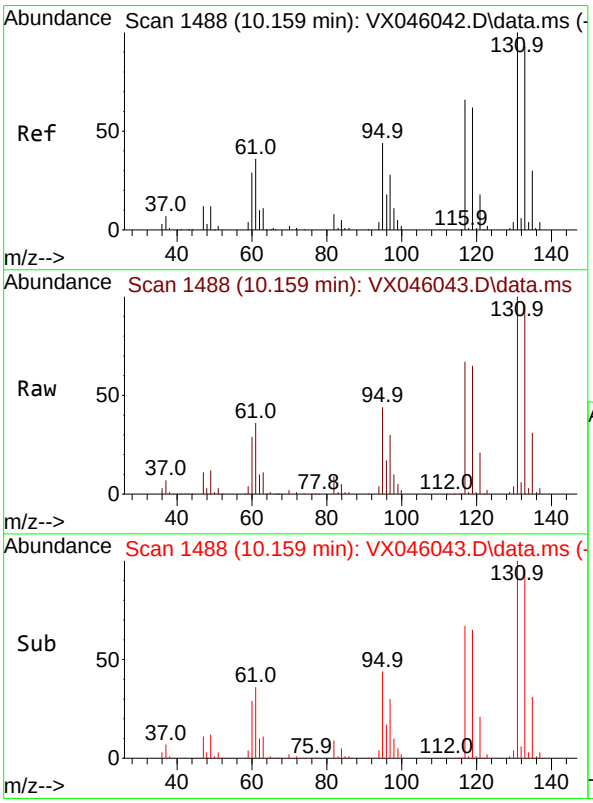
#65
Chlorobenzene
Concen: 70.490 ug/l
RT: 10.079 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:112 Resp: 293284

Ion	Ratio	Lower	Upper
112	100		
114	31.9	25.4	38.2

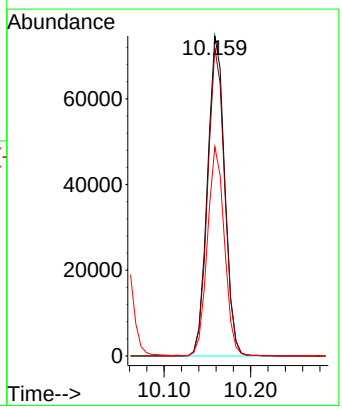


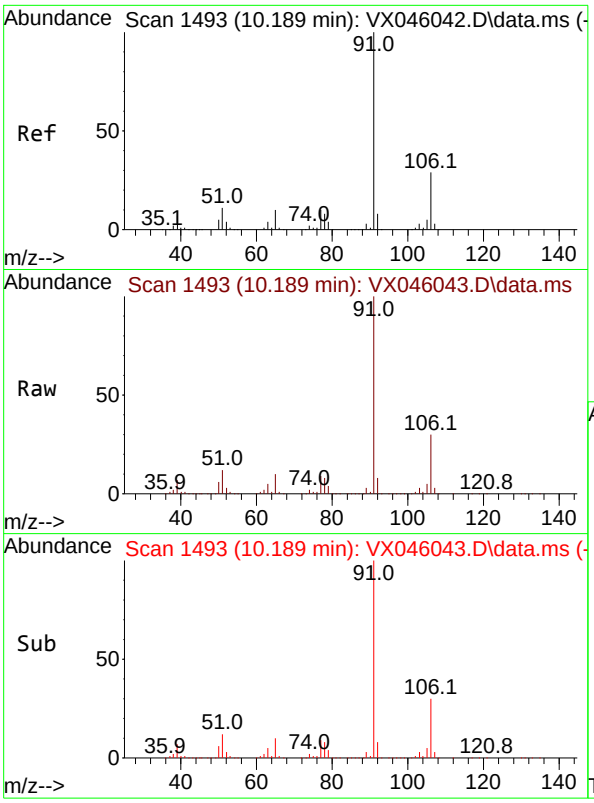


#66
1,1,1,2-Tetrachloroethane
Concen: 74.349 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion:131 Resp: 103177

Ion	Ratio	Lower	Upper
131	100		
133	95.3	47.3	141.9
119	64.5	31.6	95.0



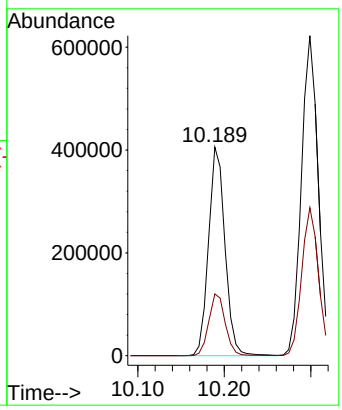


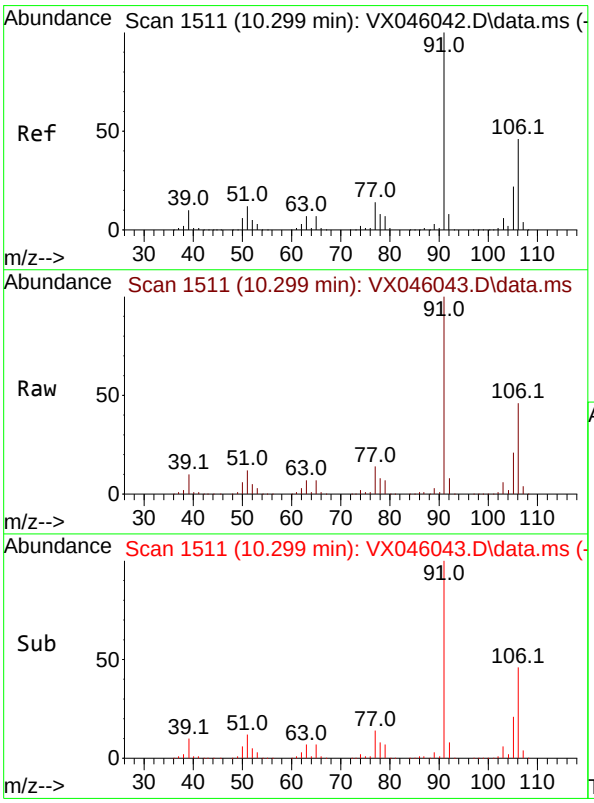
#67
Ethyl Benzene
Concen: 75.444 ug/l
RT: 10.189 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 91 Resp: 535122

Ion	Ratio	Lower	Upper
91	100		
106	29.6	23.4	35.2

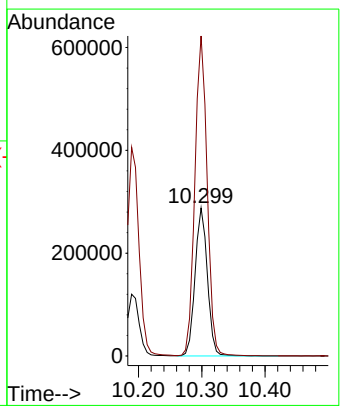


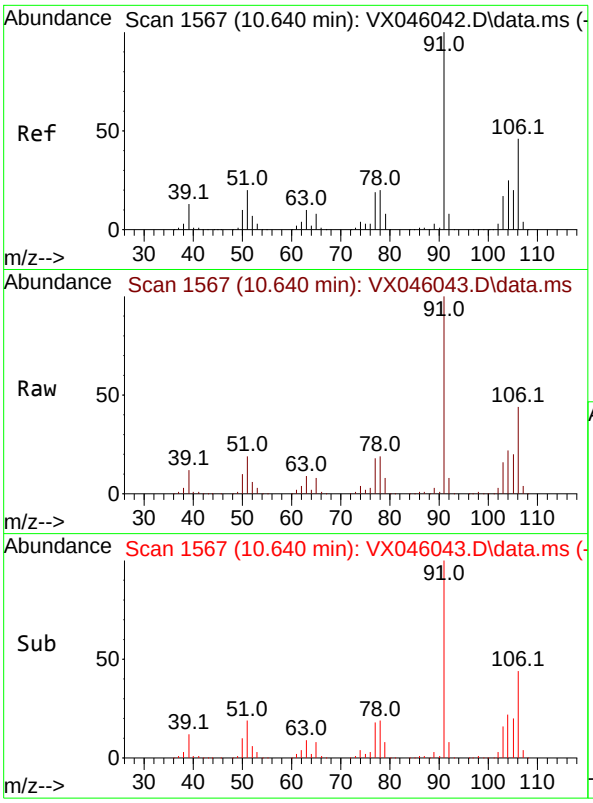


#68
m/p-Xylenes
Concen: 152.181 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion:106 Resp: 389935

Ion	Ratio	Lower	Upper
106	100		
91	215.8	171.2	256.8



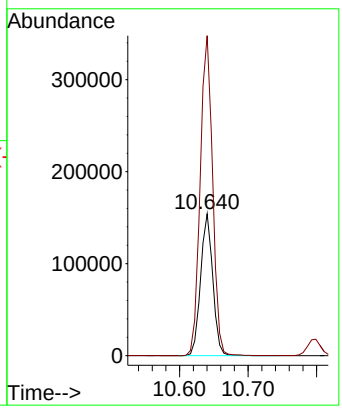


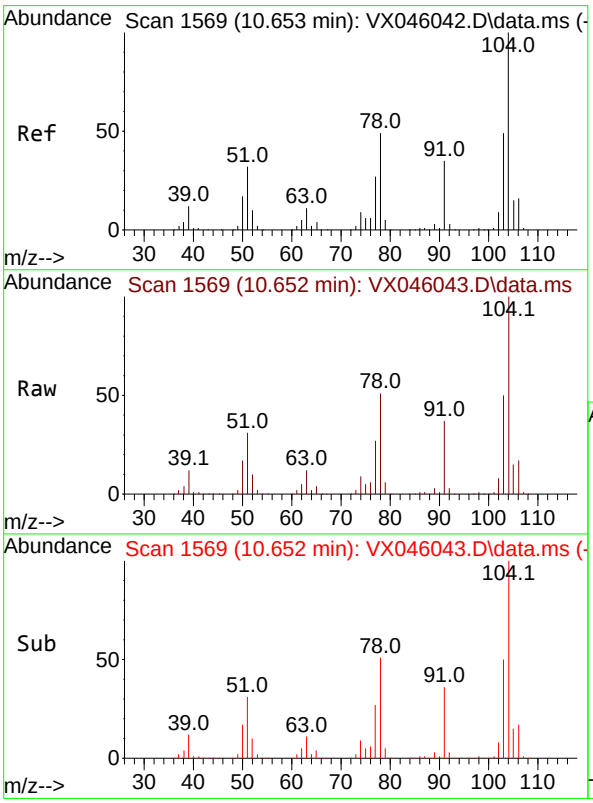
#69
o-Xylene
Concen: 73.890 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:106 Resp: 190833

Ion	Ratio	Lower	Upper
106	100		
91	230.3	112.7	338.1

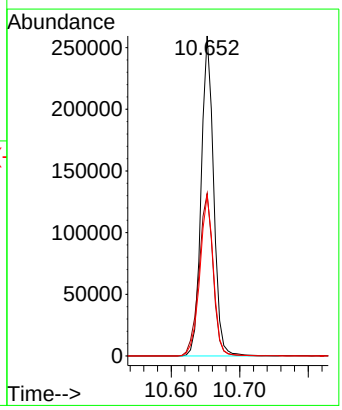


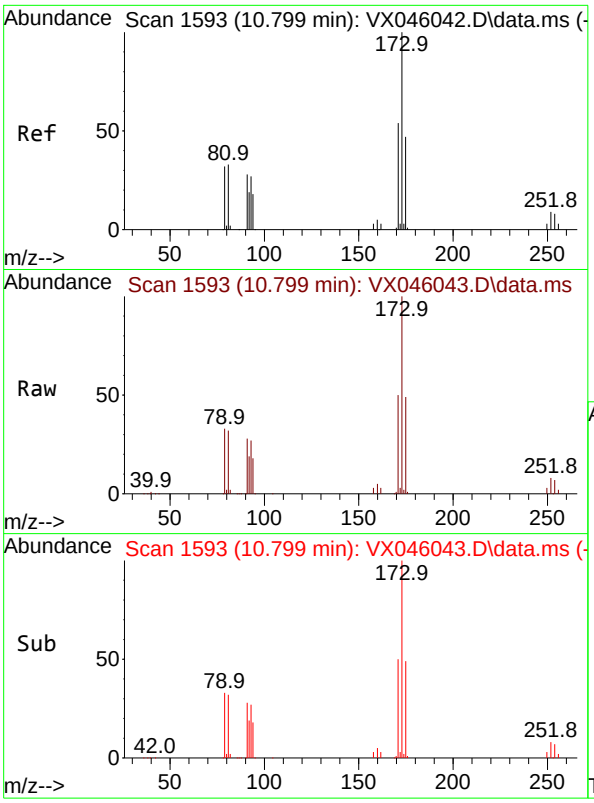


#70
Styrene
Concen: 79.411 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion:104 Resp: 328195

Ion	Ratio	Lower	Upper
104	100		
78	57.4	45.7	68.5
103	54.8	43.7	65.5



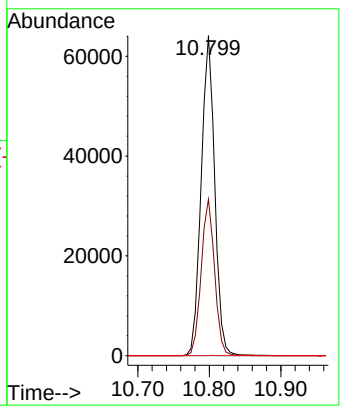


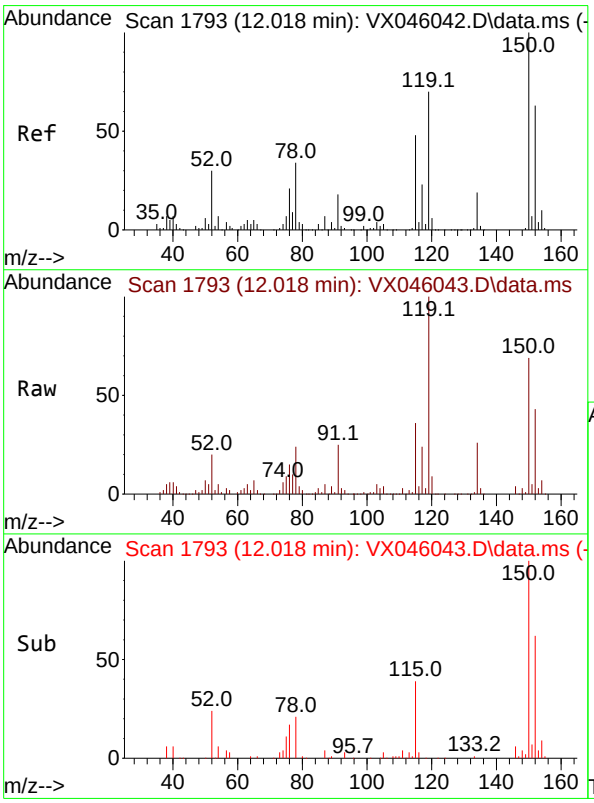
#71
Bromoform
Concen: 80.927 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:173 Resp: 84353

Ion	Ratio	Lower	Upper
173	100		
175	48.3	23.4	70.0
254	0.0	0.0	0.0#

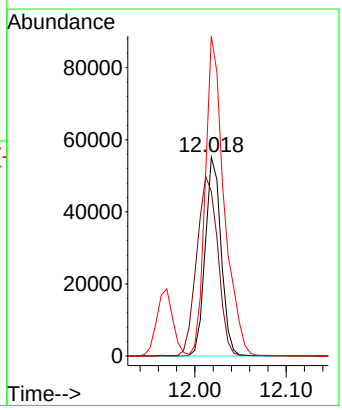


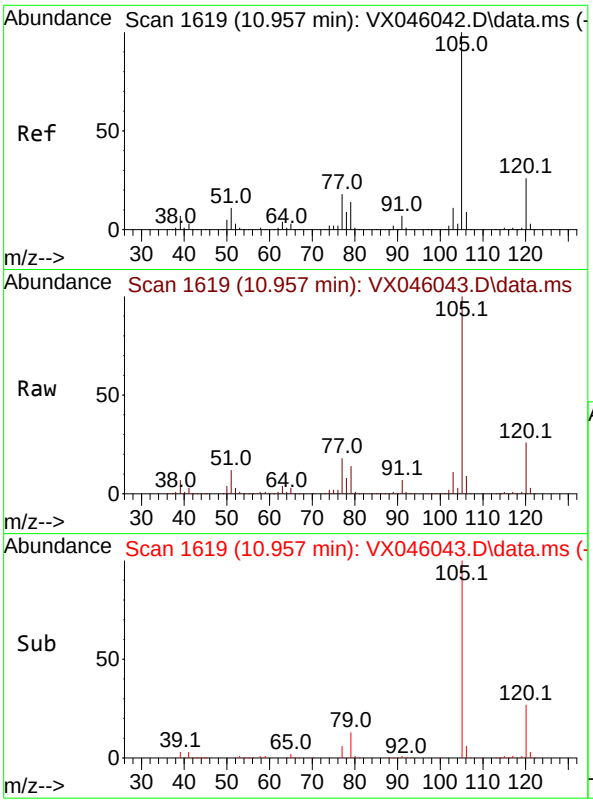


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion:152 Resp: 66369

Ion	Ratio	Lower	Upper
152	100		
115	120.4	46.9	140.7
150	190.4	0.0	351.0



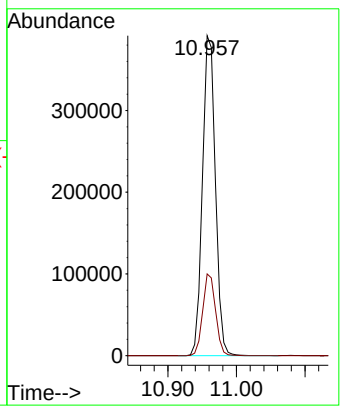


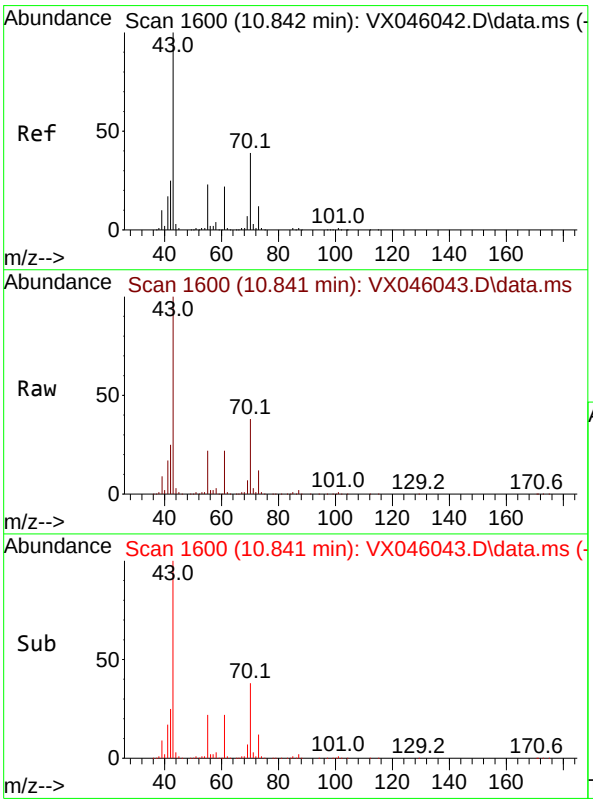
#73
Isopropylbenzene
Concen: 71.083 ug/l
RT: 10.957 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:105 Resp: 514528

Ion	Ratio	Lower	Upper
105	100		
120	25.4	12.8	38.4

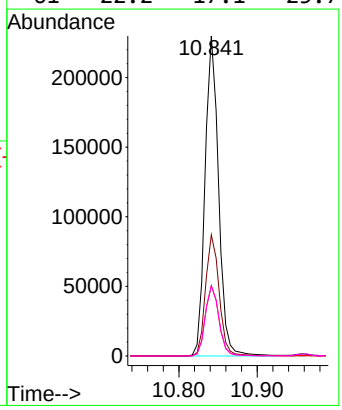


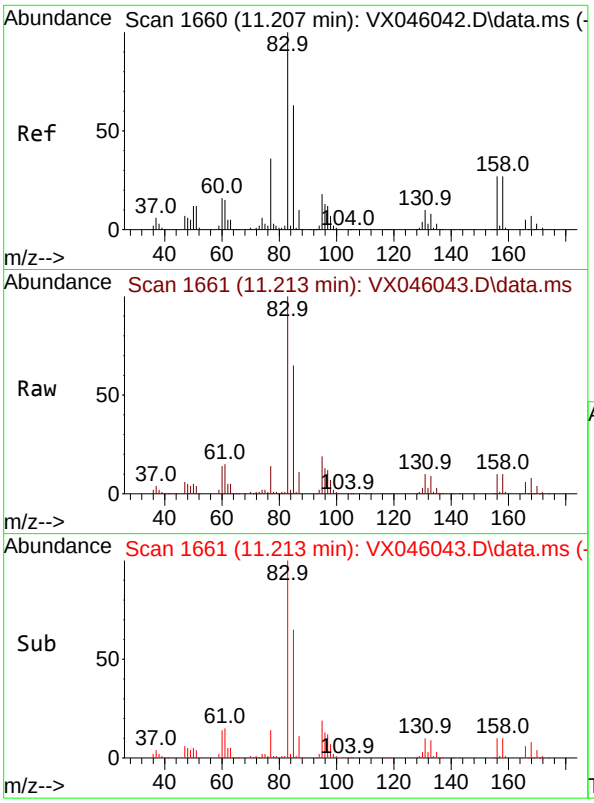


#74
N-amyl acetate
Concen: 76.073 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 43 Resp: 274553

Ion	Ratio	Lower	Upper
43	100		
70	38.2	30.9	46.3
55	22.5	18.7	28.1
61	22.2	17.1	25.7



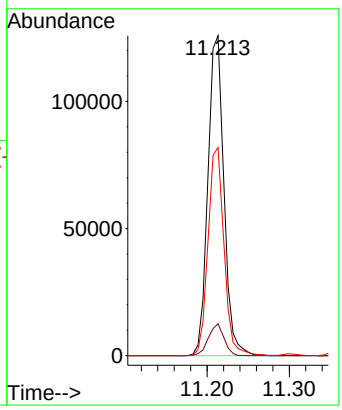


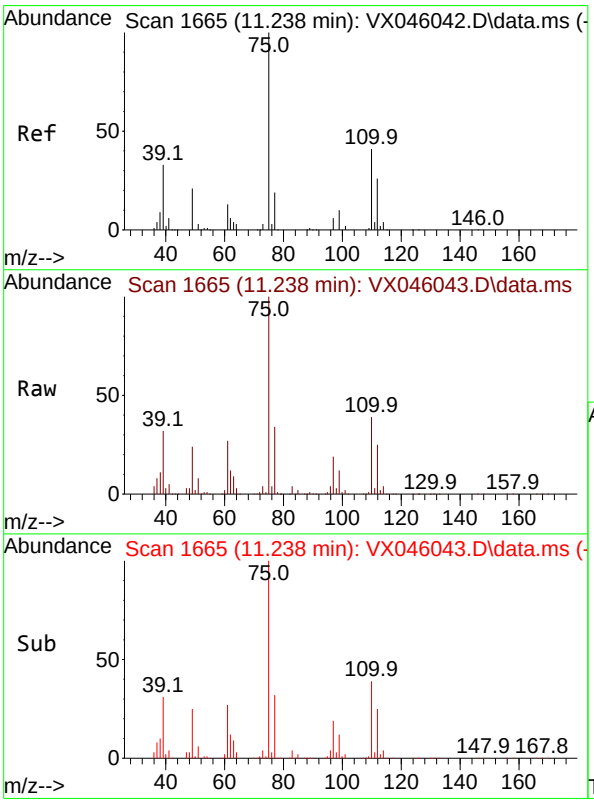
#75
1,1,2,2-Tetrachloroethane
Concen: 66.207 ug/l
RT: 11.213 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 83 Resp: 170481

Ion	Ratio	Lower	Upper
83	100		
131	9.7	5.0	14.9
85	64.9	31.9	95.7

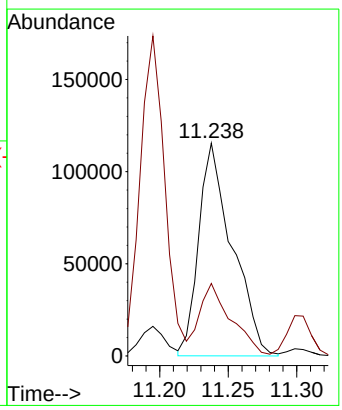


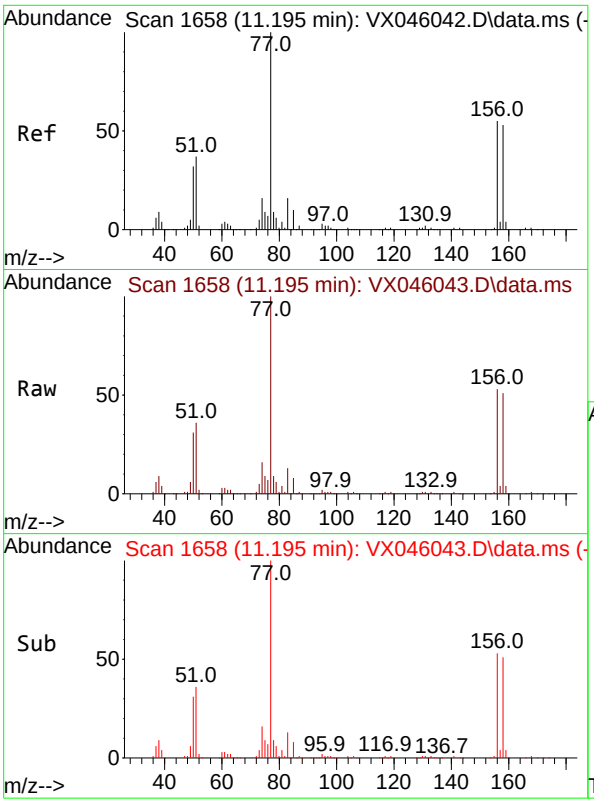


#76
1,2,3-Trichloropropane
Concen: 71.091 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 75 Resp: 196706

Ion	Ratio	Lower	Upper
75	100		
77	32.2	20.5	61.5



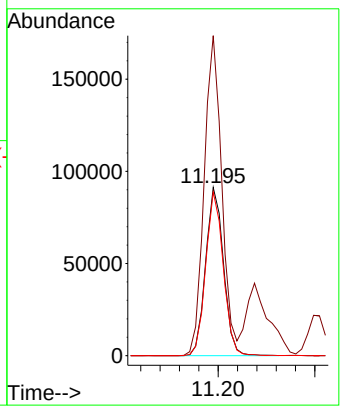


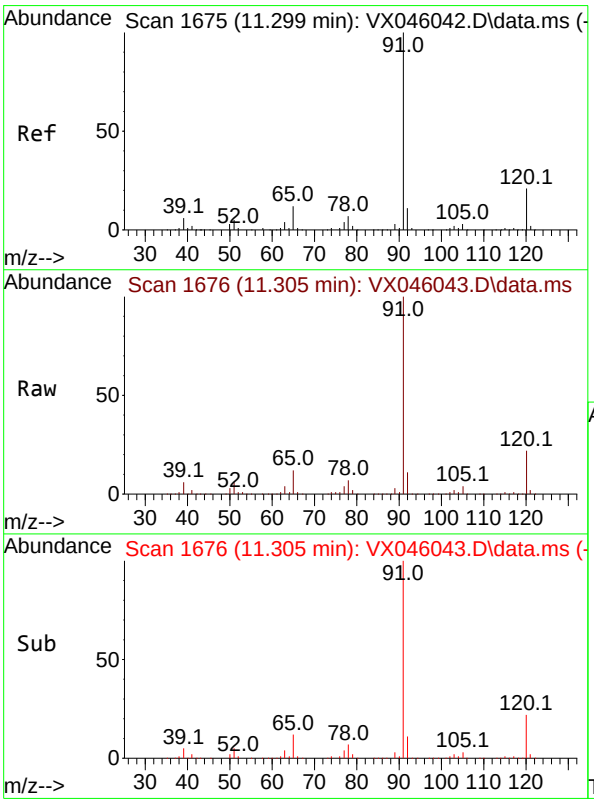
#77
Bromobenzene
Concen: 69.959 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:156 Resp: 117151

Ion	Ratio	Lower	Upper
156	100		
77	187.4	92.8	278.3
158	96.1	48.8	146.3

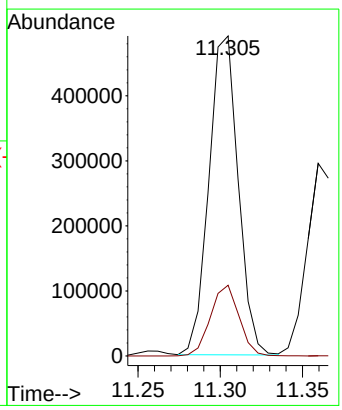


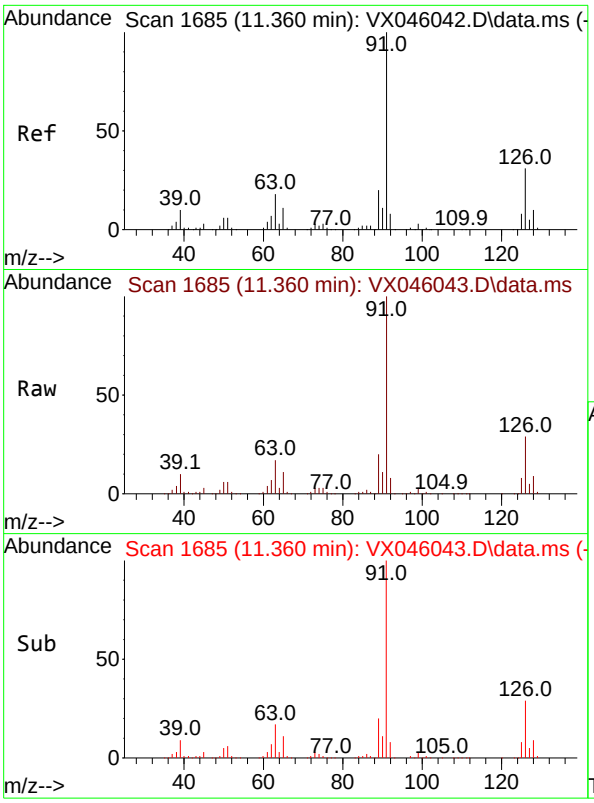


#78
n-propylbenzene
Concen: 74.974 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.006 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 91 Resp: 608332

Ion	Ratio	Lower	Upper
91	100		
120	21.7	10.8	32.4



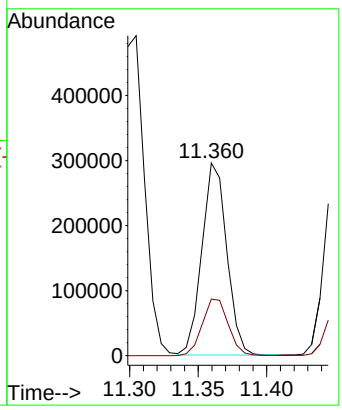


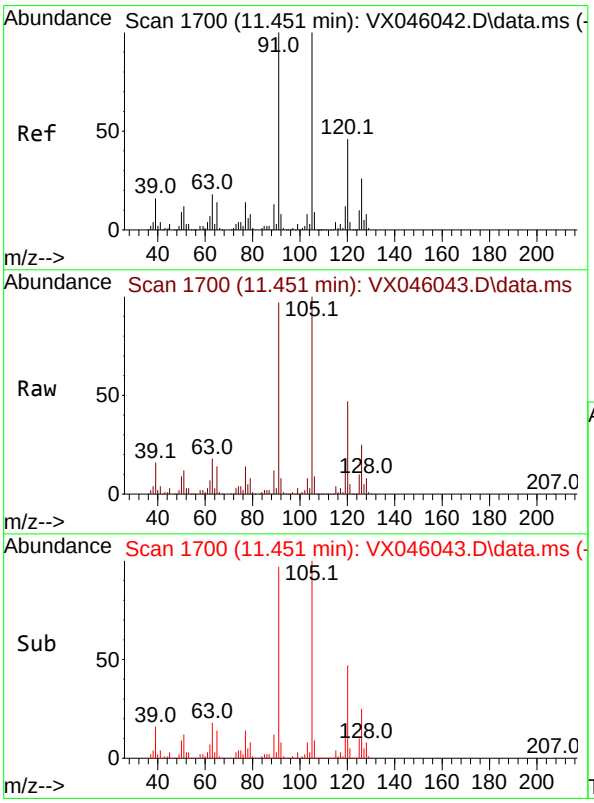
#79
2-Chlorotoluene
Concen: 68.100 ug/l
RT: 11.360 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 91 Resp: 372392

Ion	Ratio	Lower	Upper
91	100		
126	30.9	15.6	46.7

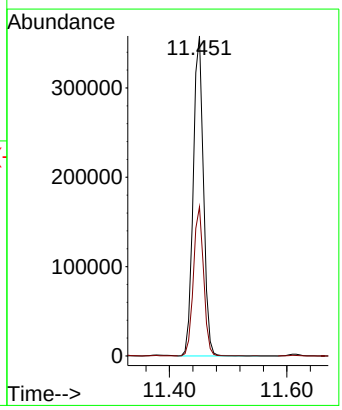


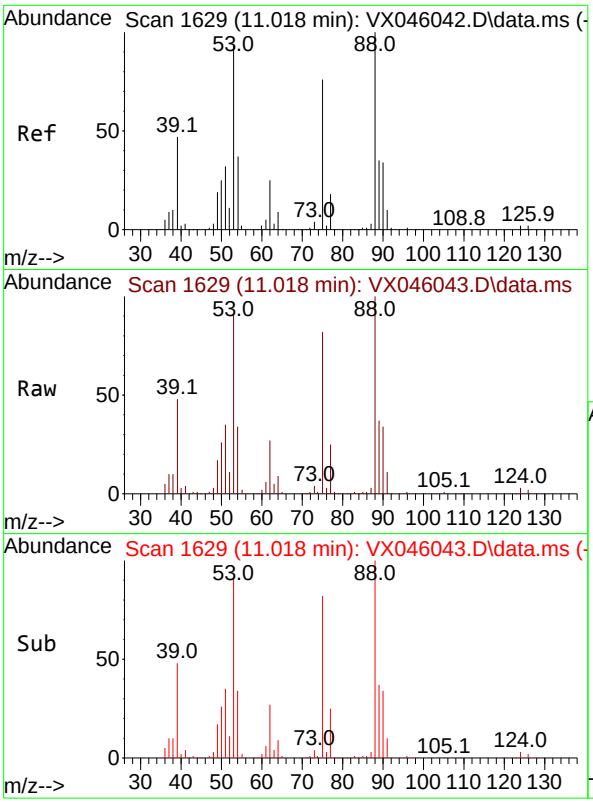


#80
1,3,5-Trimethylbenzene
Concen: 71.903 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion:105 Resp: 432096

Ion	Ratio	Lower	Upper
105	100		
120	46.3	23.1	69.2



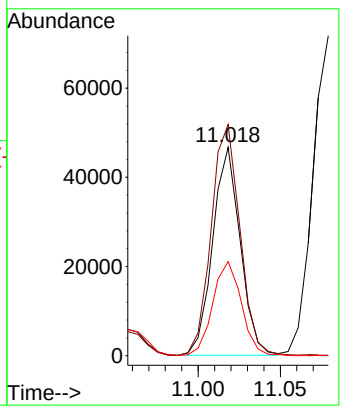


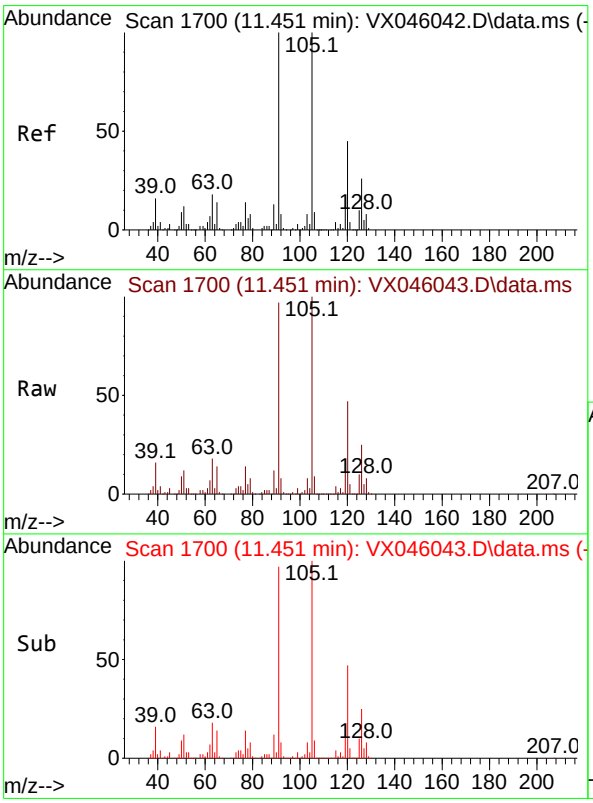
#81
trans-1,4-Dichloro-2-butene
Concen: 81.820 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 75 Resp: 54398

Ion	Ratio	Lower	Upper
75	100		
53	115.8	100.5	150.7
89	47.0	37.0	55.6

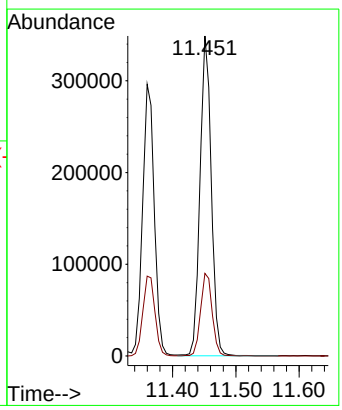


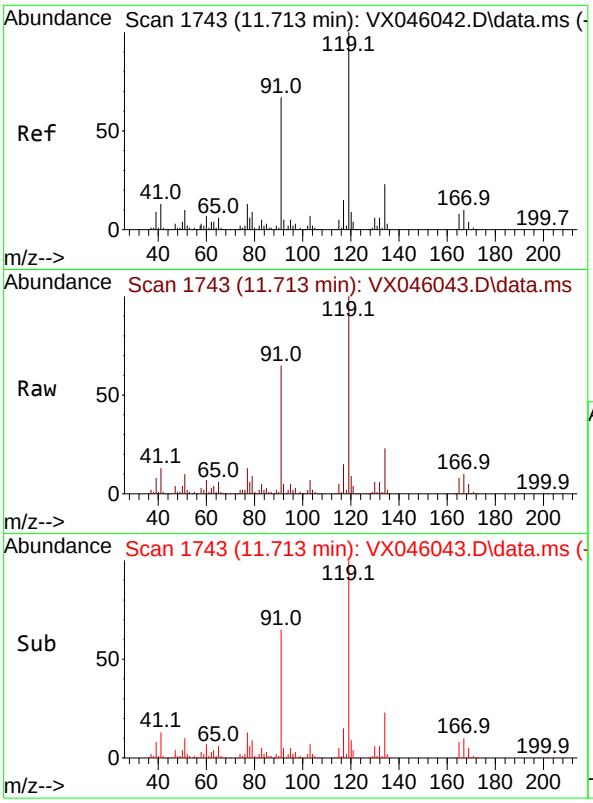


#82
4-Chlorotoluene
Concen: 71.890 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 91 Resp: 432053

Ion	Ratio	Lower	Upper
91	100		
126	26.5	13.3	39.8



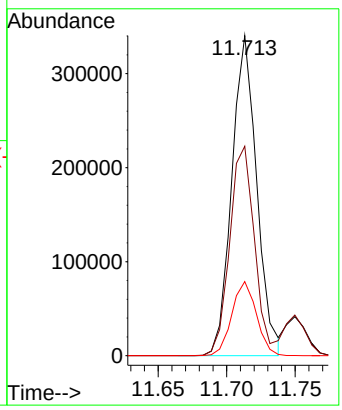


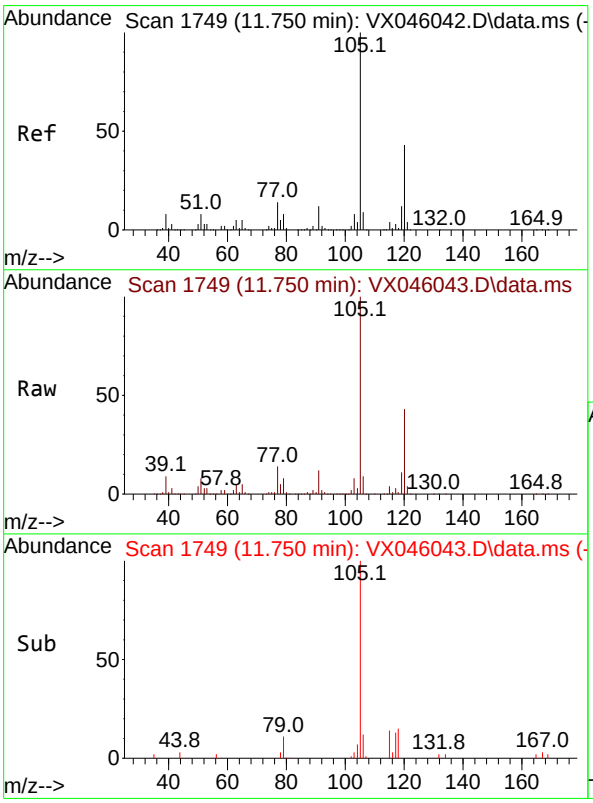
#83
tert-Butylbenzene
Concen: 73.197 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:119 Resp: 432011

Ion	Ratio	Lower	Upper
119	100		
91	64.4	32.9	98.7
134	22.8	11.4	34.1

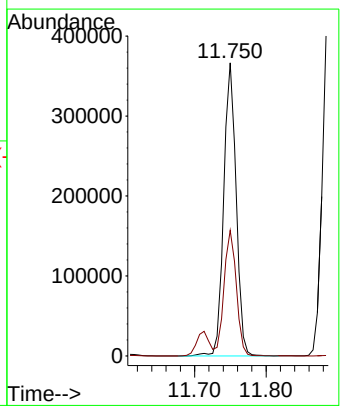


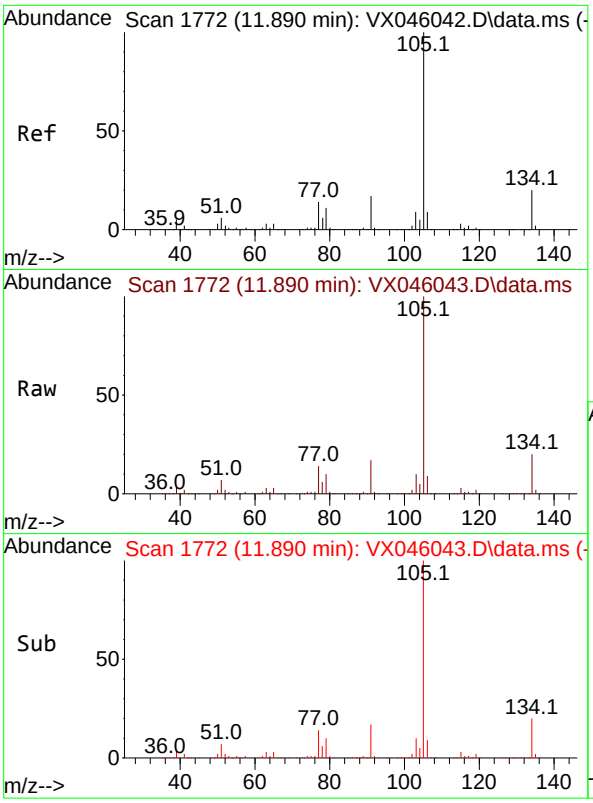


#84
1,2,4-Trimethylbenzene
Concen: 73.758 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion:105 Resp: 442728

Ion	Ratio	Lower	Upper
105	100		
120	42.4	21.2	63.6



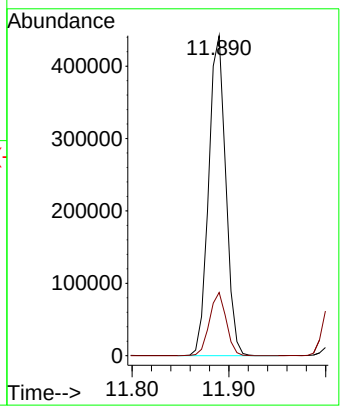


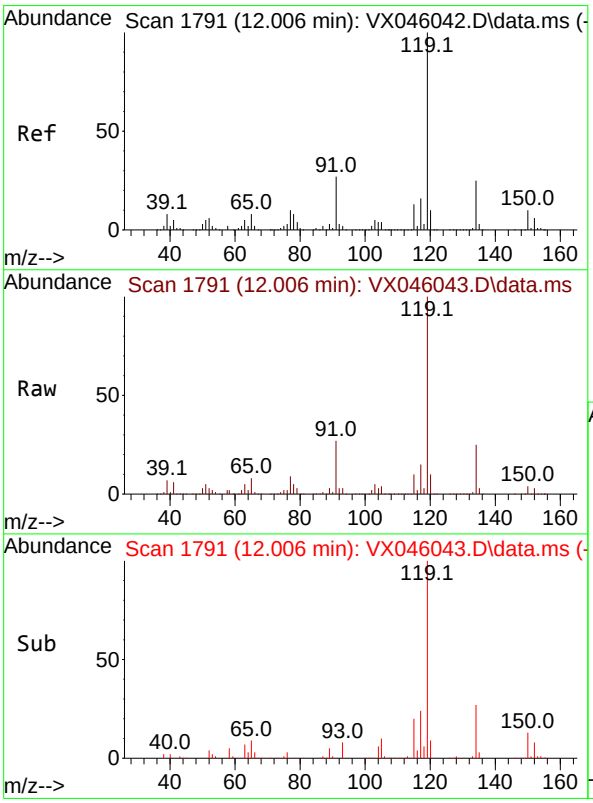
#85
sec-Butylbenzene
Concen: 74.188 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:105 Resp: 543597

Ion	Ratio	Lower	Upper
105	100		
134	19.4	9.7	29.1

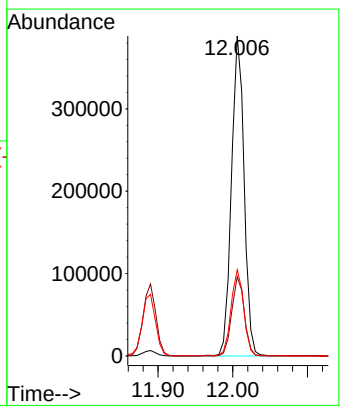


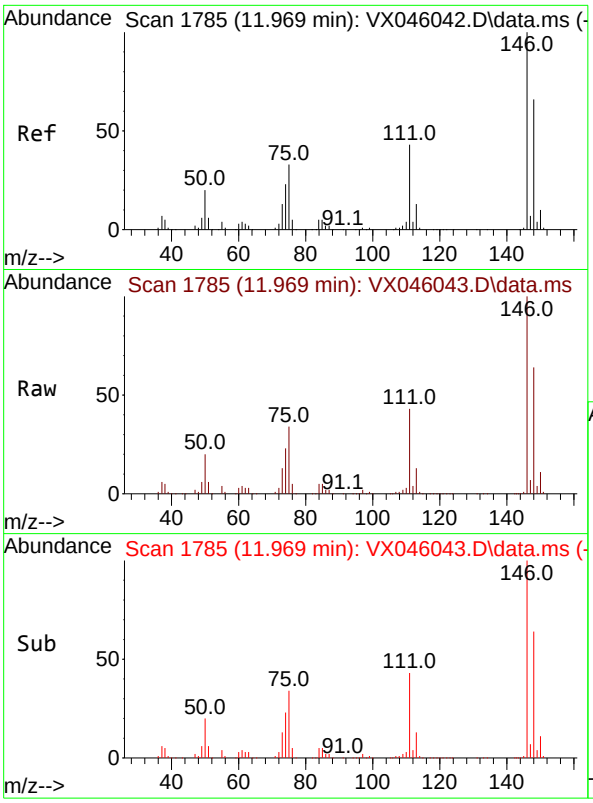


#86
p-Isopropyltoluene
Concen: 77.393 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion:119 Resp: 457898

Ion	Ratio	Lower	Upper
119	100		
134	24.6	12.5	37.5
91	26.8	13.8	41.4



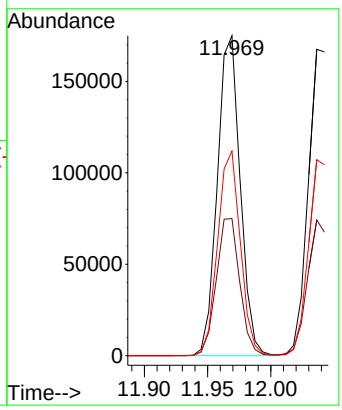


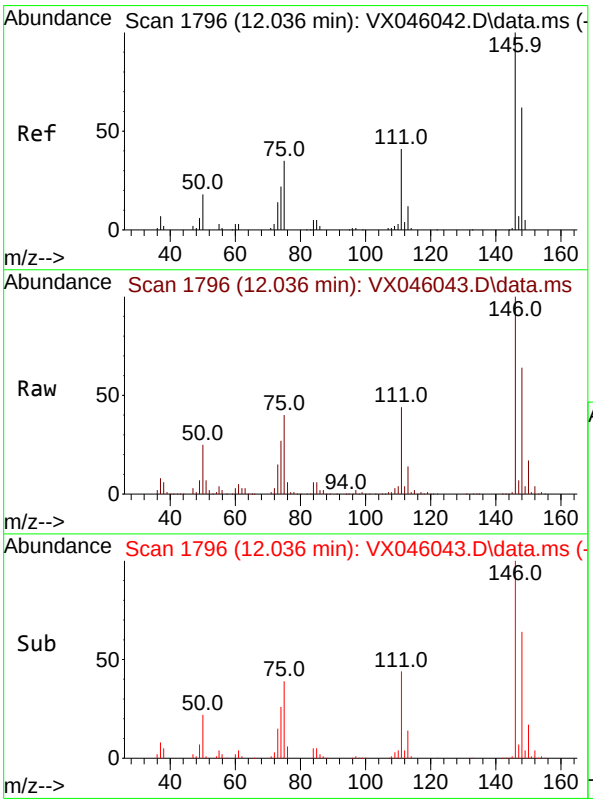
#87
1,3-Dichlorobenzene
Concen: 70.449 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:146 Resp: 219753

Ion	Ratio	Lower	Upper
146	100		
111	44.1	22.1	66.3
148	63.5	32.1	96.5

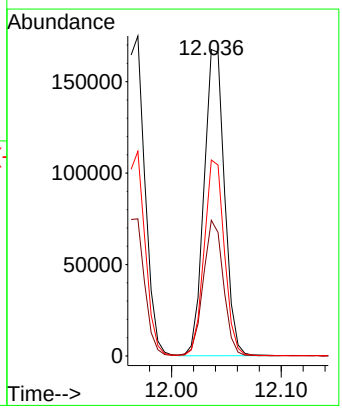


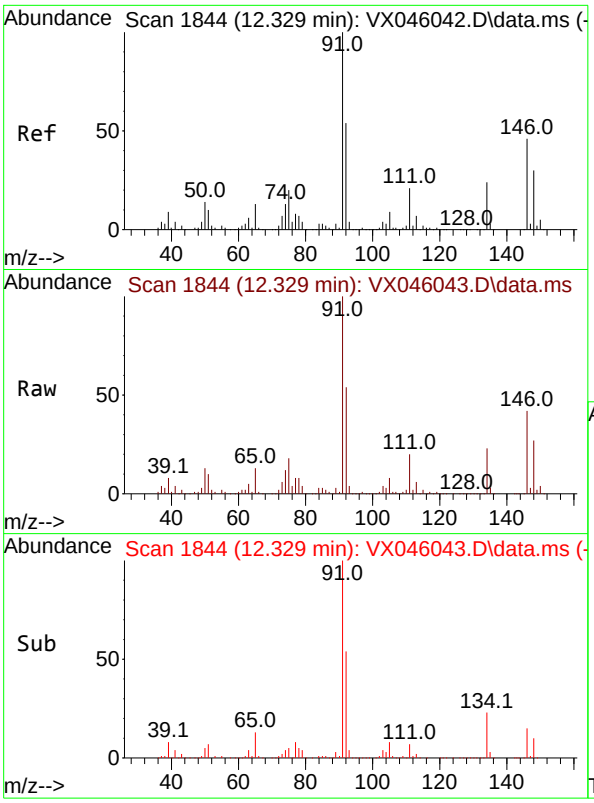


#88
1,4-Dichlorobenzene
Concen: 71.190 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion:146 Resp: 217613

Ion	Ratio	Lower	Upper
146	100		
111	43.4	21.3	63.9
148	63.2	31.9	95.5



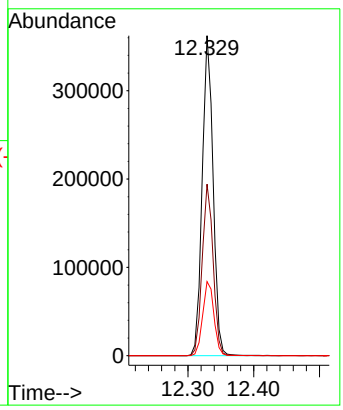


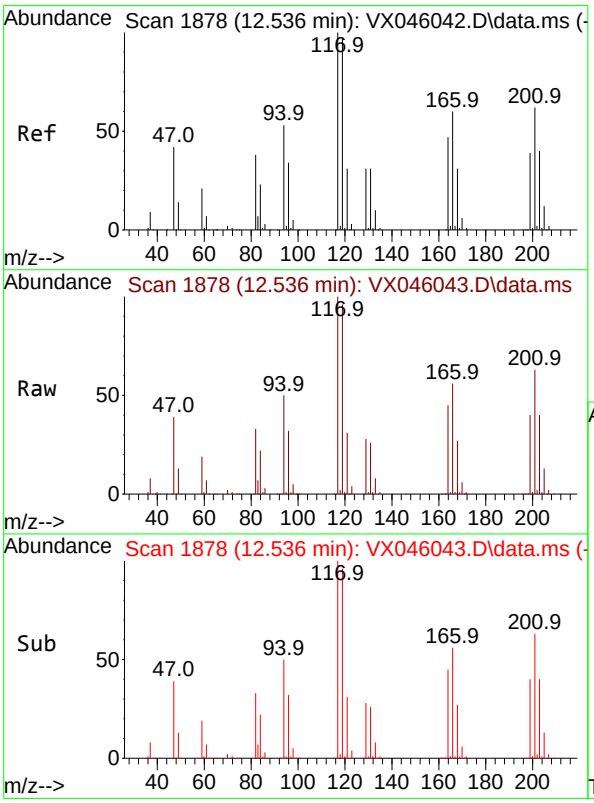
#89
n-Butylbenzene
Concen: 80.996 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 91 Resp: 416602

Ion	Ratio	Lower	Upper
91	100		
92	54.0	26.9	80.7
134	24.0	11.8	35.3

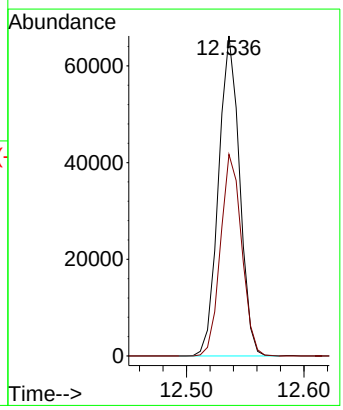


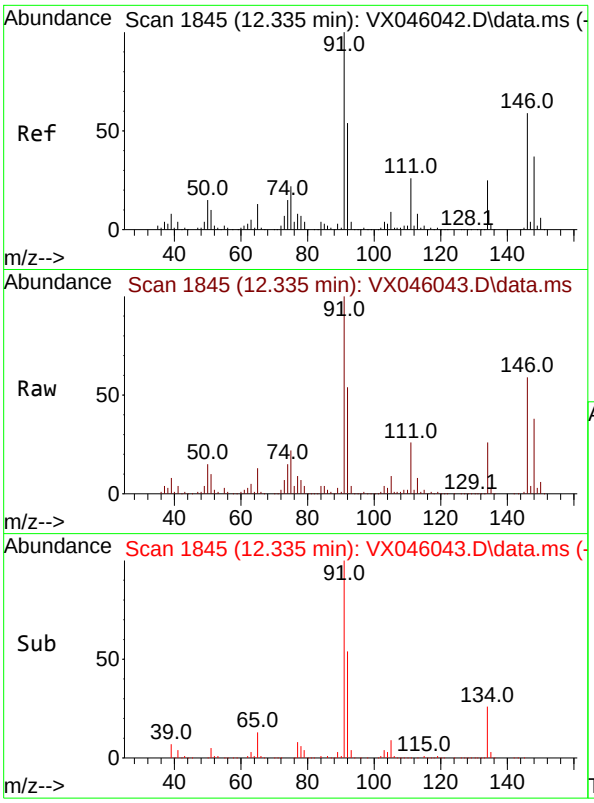


#90
Hexachloroethane
Concen: 74.978 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion:117 Resp: 82528

Ion	Ratio	Lower	Upper
117	100		
201	63.3	31.6	94.7



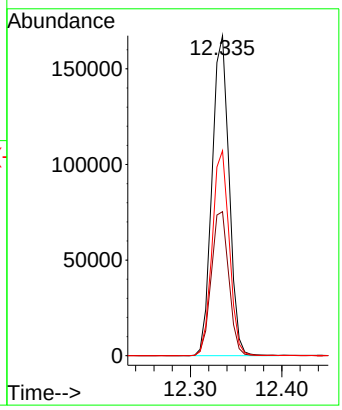


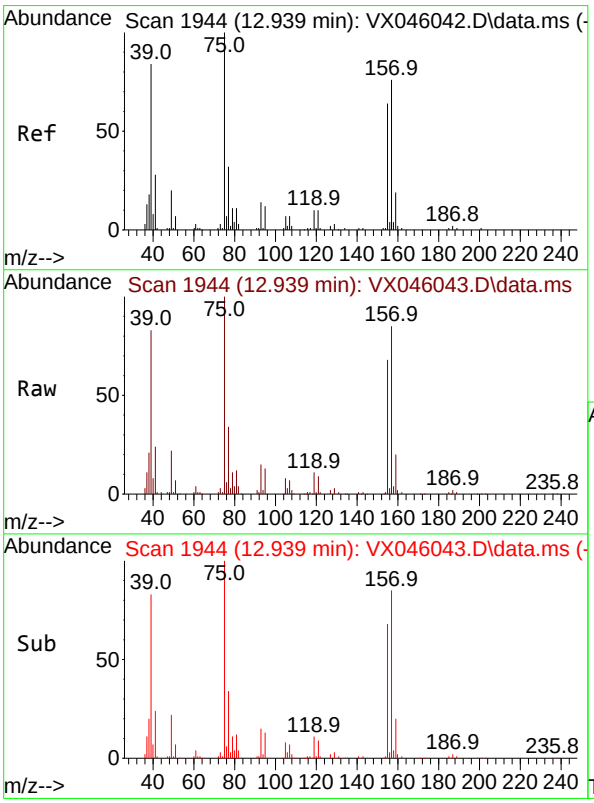
#91
1,2-Dichlorobenzene
Concen: 71.367 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:146 Resp: 216834

Ion	Ratio	Lower	Upper
146	100		
111	46.2	22.4	67.3
148	64.0	31.6	94.8

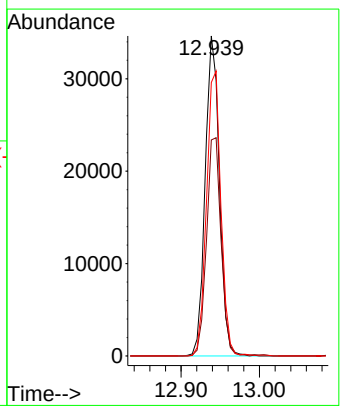


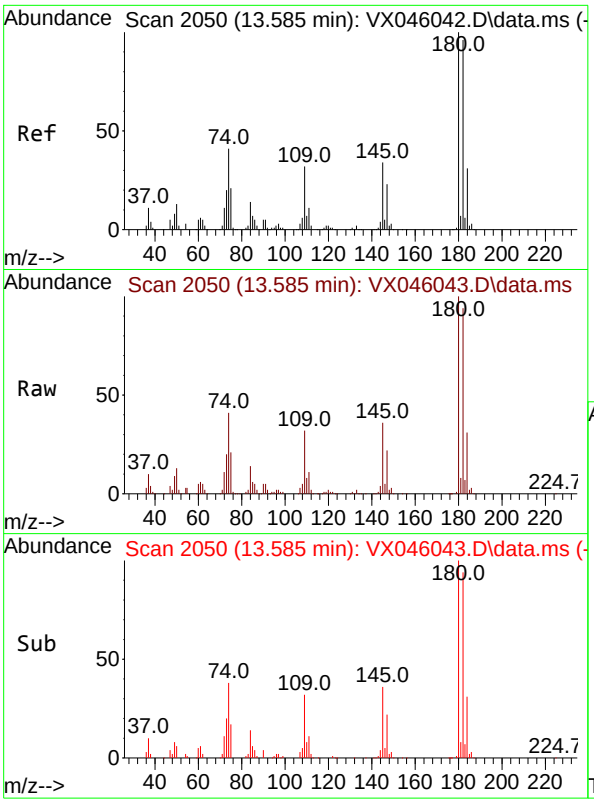


#92
1,2-Dibromo-3-Chloropropane
Concen: 74.512 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion: 75 Resp: 43673

Ion	Ratio	Lower	Upper
75	100		
155	69.4	34.9	104.8
157	90.1	43.8	131.4



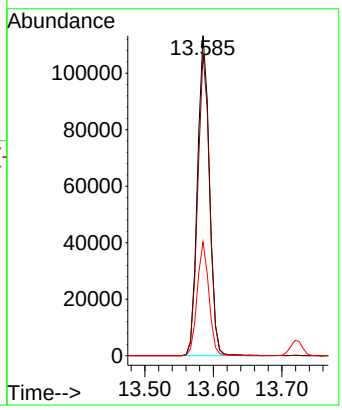


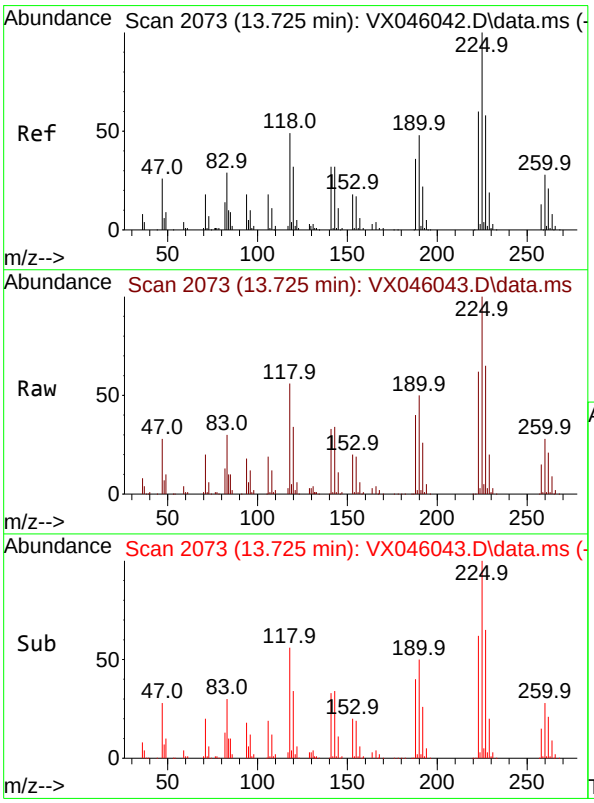
#93
1,2,4-Trichlorobenzene
Concen: 82.605 ug/l
RT: 13.585 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:180 Resp: 137430

Ion	Ratio	Lower	Upper
180	100		
182	93.7	47.9	143.8
145	34.6	17.1	51.2

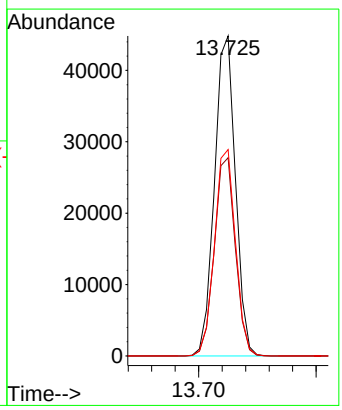


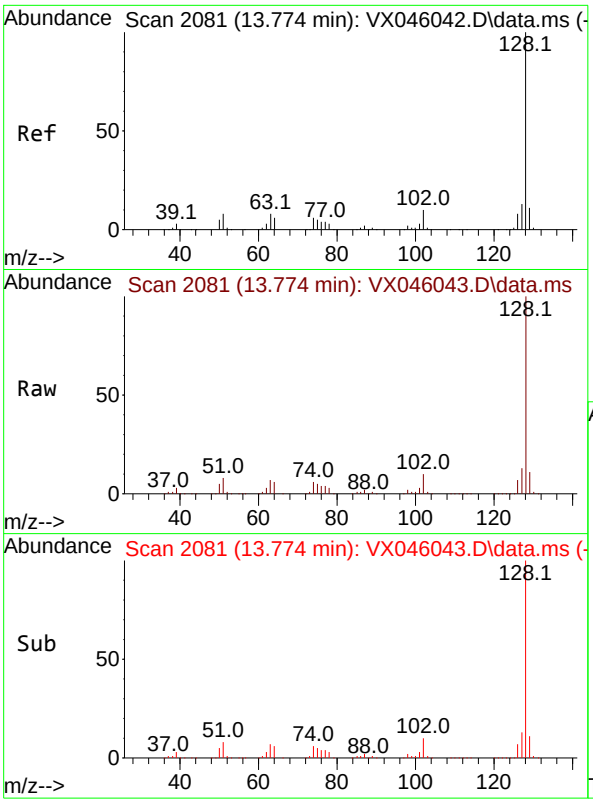


#94
Hexachlorobutadiene
Concen: 71.314 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion:225 Resp: 55494

Ion	Ratio	Lower	Upper
225	100		
223	62.3	30.8	92.4
227	64.9	30.9	92.7



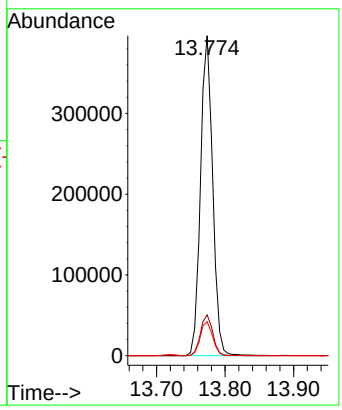


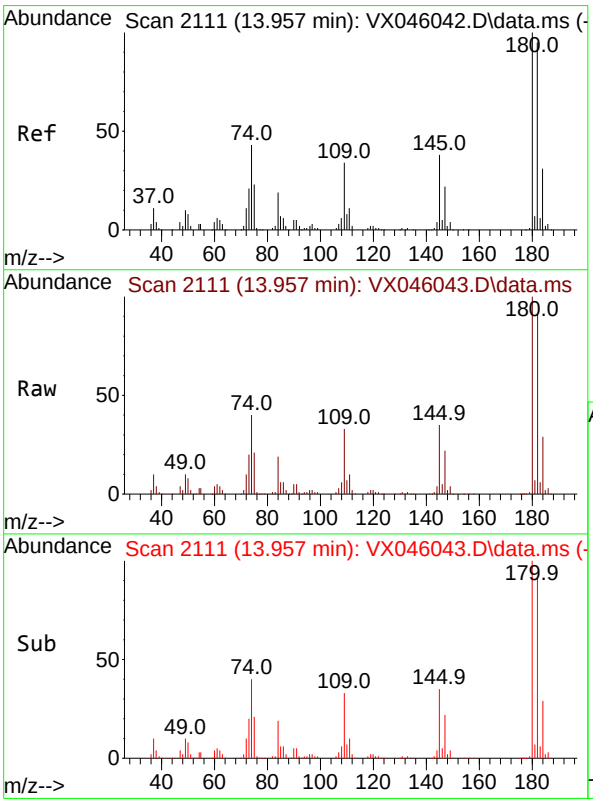
#95
Naphthalene
Concen: 80.842 ug/l
RT: 13.774 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:128 Resp: 489778

Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.4	15.6
129	10.9	8.6	13.0

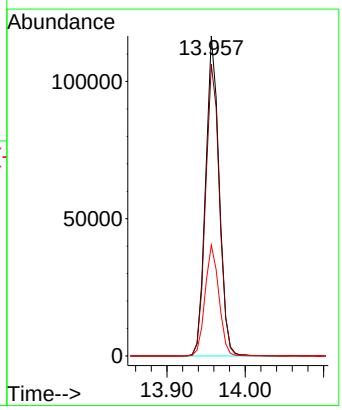




#96
1,2,3-Trichlorobenzene
Concen: 79.981 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VX046043.D
Acq: 05 May 2025 12:21

Tgt Ion:180 Resp: 139525

Ion	Ratio	Lower	Upper
180	100		
182	93.7	47.8	143.3
145	35.3	18.1	54.3



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046044.D
Acq On : 05 May 2025 12:45
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Quant Time: May 06 06:11:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	82963	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	144975	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	128557	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	60345	50.000	ug/l	# 0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	231952	93.983	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 187.960%#			
35) Dibromofluoromethane	5.385	113	160168	98.562	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 197.120%#			
50) Toluene-d8	8.647	98	554390	101.252	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 202.500%#			
62) 4-Bromofluorobenzene	11.079	95	217536	109.174	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 218.340%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	217793	118.929	ug/l	98
3) Chloromethane	1.307	50	196843	109.161	ug/l	99
4) Vinyl Chloride	1.374	62	187924	118.953	ug/l	100
5) Bromomethane	1.593	94	83008	103.625	ug/l	95
6) Chloroethane	1.660	64	78806	96.822	ug/l	98
7) Trichlorofluoromethane	1.868	101	245108	101.851	ug/l	97
8) Diethyl Ether	2.136	74	88441	111.791	ug/l	95
9) 1,1,2-Trichlorotrifluo...	2.313	101	161404	112.243	ug/l	99
10) Methyl Iodide	2.441	142	189843	112.441	ug/l	100
11) Tert butyl alcohol	3.002	59	181238	616.119	ug/l	100
12) 1,1-Dichloroethene	2.307	96	155451	111.039	ug/l	99
13) Acrolein	2.239	56	203257	594.872	ug/l	98
14) Allyl chloride	2.654	41	297776	112.561	ug/l	98
15) Acrylonitrile	3.069	53	484854	550.973	ug/l	98
16) Acetone	2.392	43	460820	545.754	ug/l	98
17) Carbon Disulfide	2.502	76	397353	122.499	ug/l	100
18) Methyl Acetate	2.709	43	217885	108.099	ug/l	98
19) Methyl tert-butyl Ether	3.117	73	557210	114.112	ug/l	100
20) Methylene Chloride	2.782	84	172035	100.579	ug/l	96
21) trans-1,2-Dichloroethene	3.081	96	154694	108.241	ug/l	96
22) Diisopropyl ether	3.764	45	577610	116.858	ug/l	90
23) Vinyl Acetate	3.721	43	2655751	608.005	ug/l	100
24) 1,1-Dichloroethane	3.605	63	320083	110.182	ug/l	99
25) 2-Butanone	4.562	43	708463	581.292	ug/l	98
26) 2,2-Dichloropropane	4.471	77	258698	117.548	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	187835	108.994	ug/l	99
28) Bromochloromethane	4.898	49	146923	95.108	ug/l	100
29) Tetrahydrofuran	5.007	42	450456	569.081	ug/l	99
30) Chloroform	5.087	83	323659	107.208	ug/l	95
31) Cyclohexane	5.458	56	286312	116.934	ug/l	99
32) 1,1,1-Trichloroethane	5.373	97	295702	113.572	ug/l	98
36) 1,1-Dichloropropene	5.684	75	219731	116.462	ug/l	99
37) Ethyl Acetate	4.715	43	274312	115.889	ug/l	99
38) Carbon Tetrachloride	5.666	117	250916	115.760	ug/l	99
39) Methylcyclohexane	7.373	83	286311	121.107	ug/l	97
40) Benzene	6.031	78	642178	109.813	ug/l	99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046044.D
Acq On : 05 May 2025 12:45
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Quant Time: May 06 06:11:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.922	41	151424	115.139	ug/l		98
42) 1,2-Dichloroethane	6.080	62	271992	112.492	ug/l		99
43) Isopropyl Acetate	6.342	43	447871	123.780	ug/l		100
44) Trichloroethene	7.117	130	157641	114.032	ug/l		96
45) 1,2-Dichloropropane	7.428	63	164505	113.217	ug/l		99
46) Dibromomethane	7.574	93	125846	109.869	ug/l		100
47) Bromodichloromethane	7.818	83	258326	116.365	ug/l		98
48) Methyl methacrylate	7.690	41	231040	124.356	ug/l		99
49) 1,4-Dioxane	7.665	88	82800	2241.695	ug/l		98
51) 4-Methyl-2-Pentanone	8.574	43	1371275	577.831	ug/l		100
52) Toluene	8.714	92	393323	113.430	ug/l		100
53) t-1,3-Dichloropropene	8.976	75	257233	138.001	ug/l		99
54) cis-1,3-Dichloropropene	8.366	75	271054	124.658	ug/l		95
55) 1,1,2-Trichloroethane	9.147	97	154932	110.551	ug/l		97
56) Ethyl methacrylate	9.116	69	277921	127.968	ug/l		99
57) 1,3-Dichloropropane	9.305	76	272814	109.813	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.244	63	680608	697.344	ug/l		100
59) 2-Hexanone	9.433	43	1028597	571.094	ug/l		99
60) Dibromochloromethane	9.519	129	187497	122.915	ug/l		98
61) 1,2-Dibromoethane	9.604	107	165634	115.087	ug/l		97
64) Tetrachloroethene	9.269	164	132488	100.918	ug/l		96
65) Chlorobenzene	10.080	112	429656	108.615	ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.159	131	152173	115.333	ug/l		99
67) Ethyl Benzene	10.189	91	785121	116.421	ug/l		99
68) m/p-Xylenes	10.299	106	570913	234.349	ug/l		100
69) o-Xylene	10.640	106	279906	113.990	ug/l		99
70) Styrene	10.653	104	474254	120.694	ug/l		99
71) Bromoform	10.799	173	125986	127.128	ug/l	#	99
73) Isopropylbenzene	10.957	105	752337	114.312	ug/l		99
74) N-amyl acetate	10.842	43	396877	120.944	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.213	83	243532	104.018	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	284571	113.113	ug/l		85
77) Bromobenzene	11.195	156	167934	110.297	ug/l		99
78) n-propylbenzene	11.305	91	881218	119.448	ug/l		100
79) 2-Chlorotoluene	11.360	91	534560	107.514	ug/l		100
80) 1,3,5-Trimethylbenzene	11.451	105	616477	112.825	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	81372	134.609	ug/l		93
82) 4-Chlorotoluene	11.451	91	611736	111.948	ug/l		100
83) tert-Butylbenzene	11.713	119	617473	115.065	ug/l		100
84) 1,2,4-Trimethylbenzene	11.750	105	623456	114.236	ug/l		99
85) sec-Butylbenzene	11.890	105	786293	118.023	ug/l		99
86) p-Isopropyltoluene	12.006	119	651531	121.113	ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	313100	110.394	ug/l		100
88) 1,4-Dichlorobenzene	12.036	146	311752	112.167	ug/l		100
89) n-Butylbenzene	12.329	91	605783	129.533	ug/l		100
90) Hexachloroethane	12.536	117	123188	123.091	ug/l		100
91) 1,2-Dichlorobenzene	12.335	146	308039	111.506	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	64438	120.915	ug/l		99
93) 1,2,4-Trichlorobenzene	13.585	180	203255	134.366	ug/l		98
94) Hexachlorobutadiene	13.719	225	80558	113.857	ug/l		99
95) Naphthalene	13.774	128	721236	130.929	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	200379	126.331	ug/l		99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046044.D
Acq On : 05 May 2025 12:45
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Quant Time: May 06 06:11:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

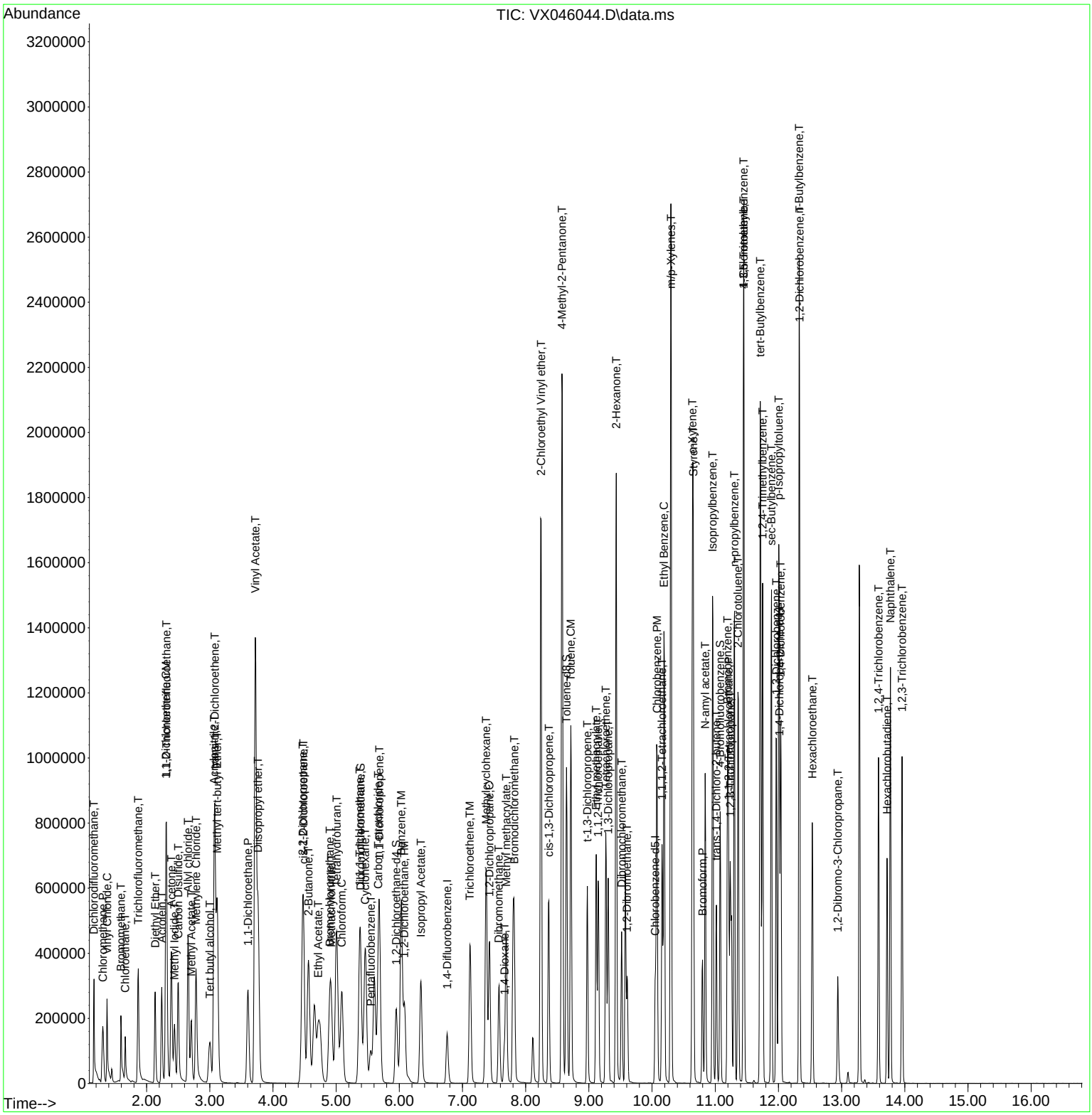
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

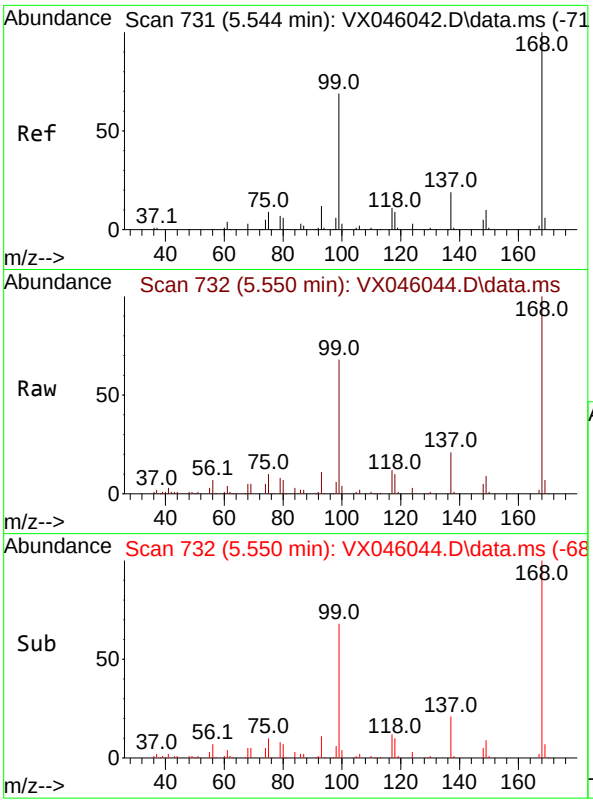
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046044.D
Acq On : 05 May 2025 12:45
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Quant Time: May 06 06:11:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration



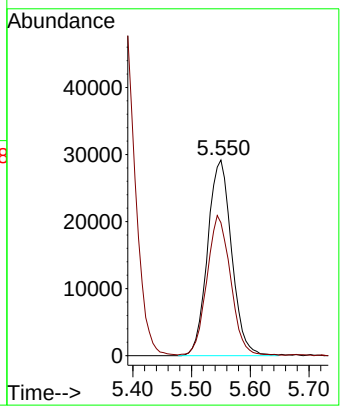


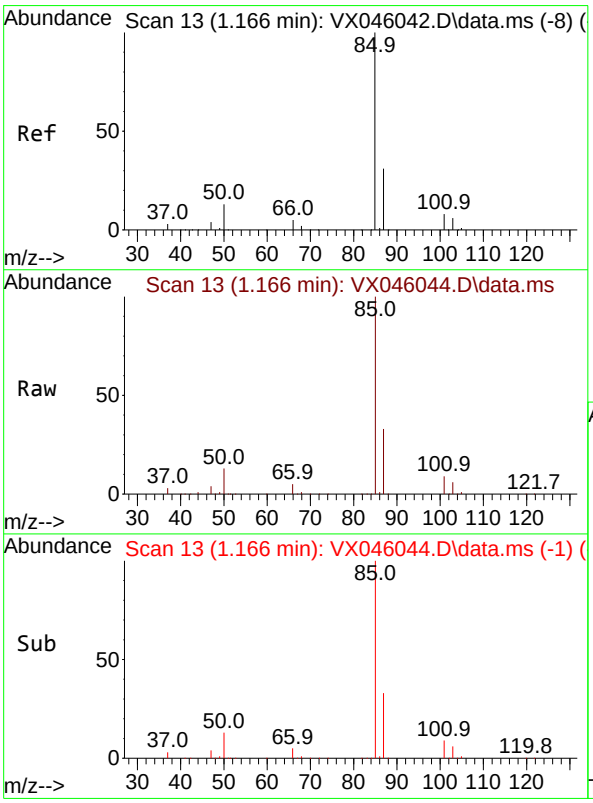
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:168 Resp: 82963

Ion	Ratio	Lower	Upper
168	100		
99	67.6	54.9	82.3

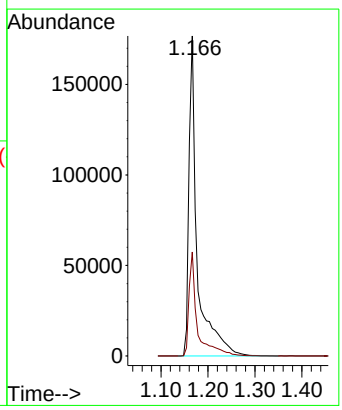


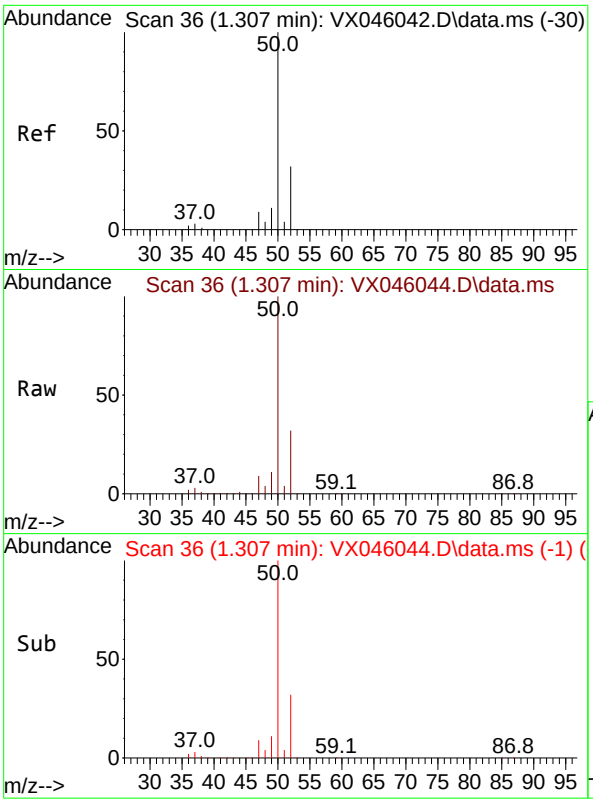


#2
Dichlorodifluoromethane
Concen: 118.929 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 85 Resp: 217793

Ion	Ratio	Lower	Upper
85	100		
87	32.5	15.7	47.1



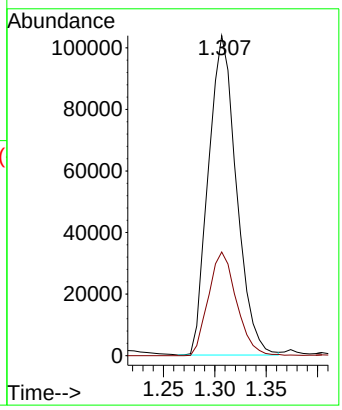


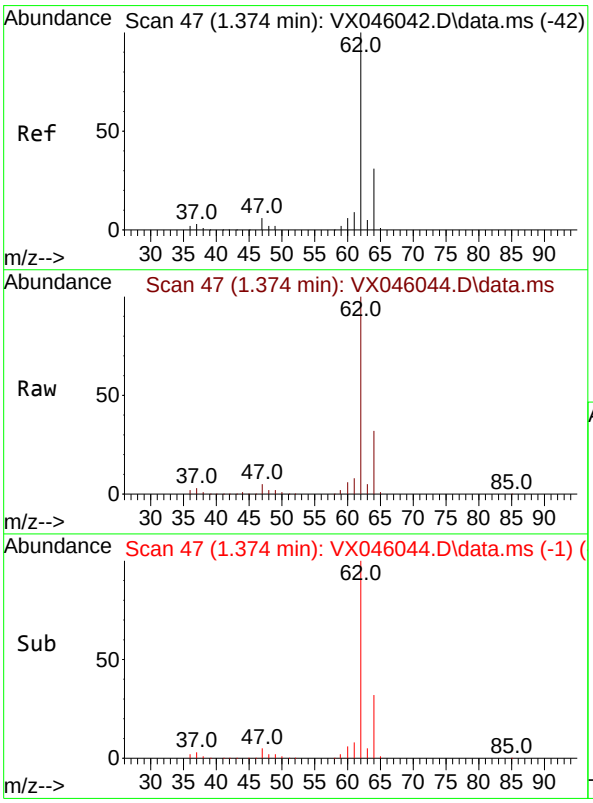
#3
Chloromethane
Concen: 109.161 ug/l
RT: 1.307 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 50 Resp: 196843

Ion	Ratio	Lower	Upper
50	100		
52	32.5	25.4	38.2

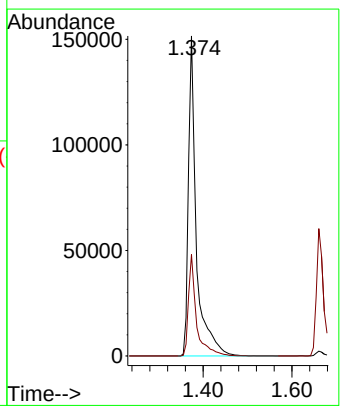


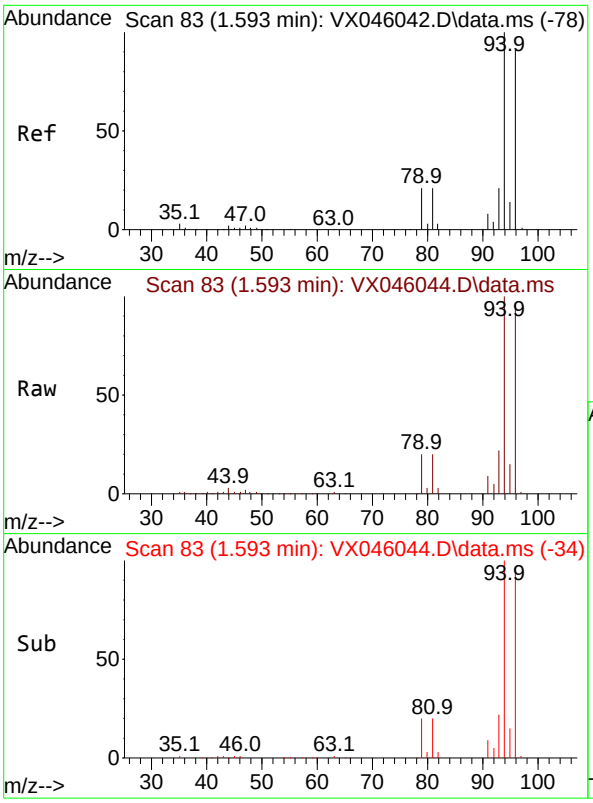


#4
Vinyl Chloride
Concen: 118.953 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 62 Resp: 187924

Ion	Ratio	Lower	Upper
62	100		
64	31.7	25.2	37.8



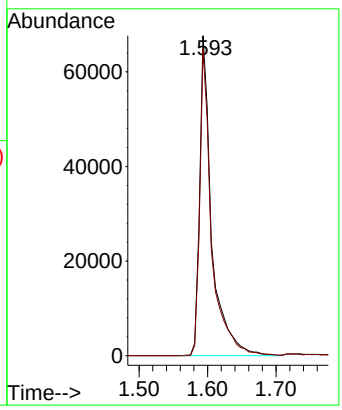


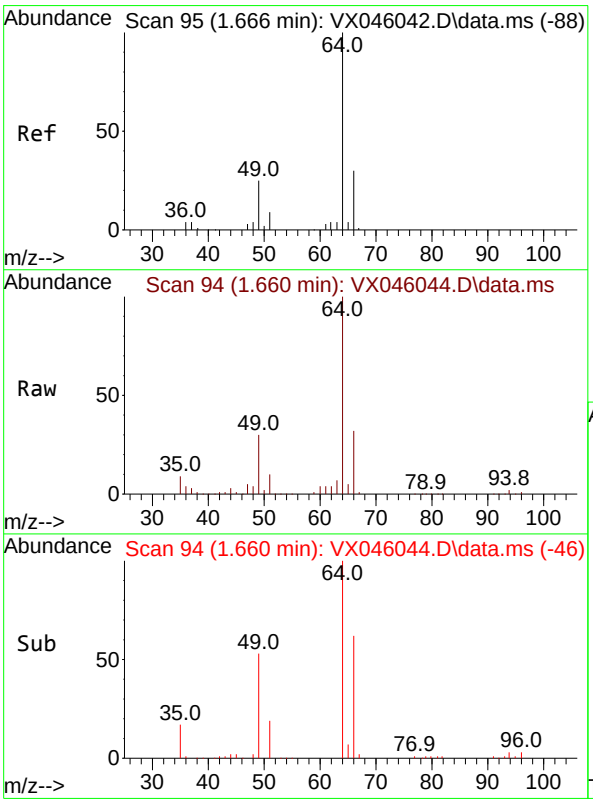
#5
Bromomethane
Concen: 103.625 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 94 Resp: 83008

Ion	Ratio	Lower	Upper
94	100		
96	95.8	72.8	109.2

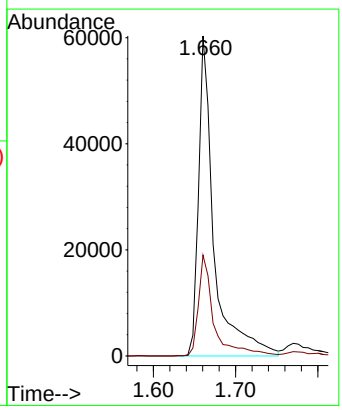


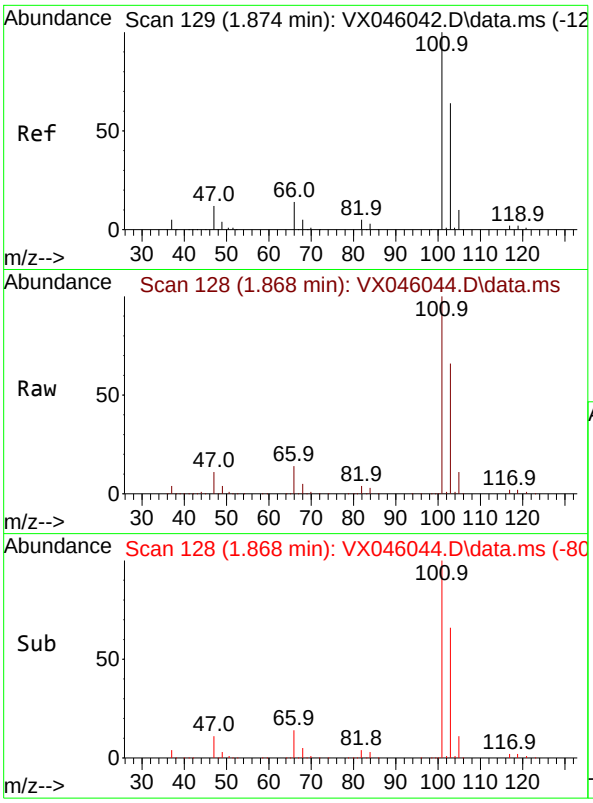


#6
Chloroethane
Concen: 96.822 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 64 Resp: 78806

Ion	Ratio	Lower	Upper
64	100		
66	31.3	24.3	36.5



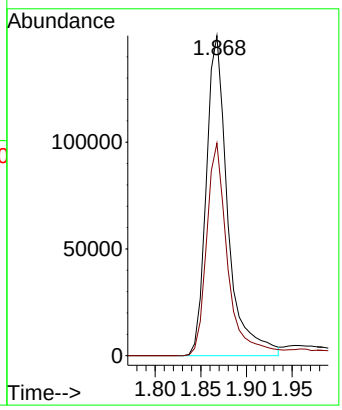


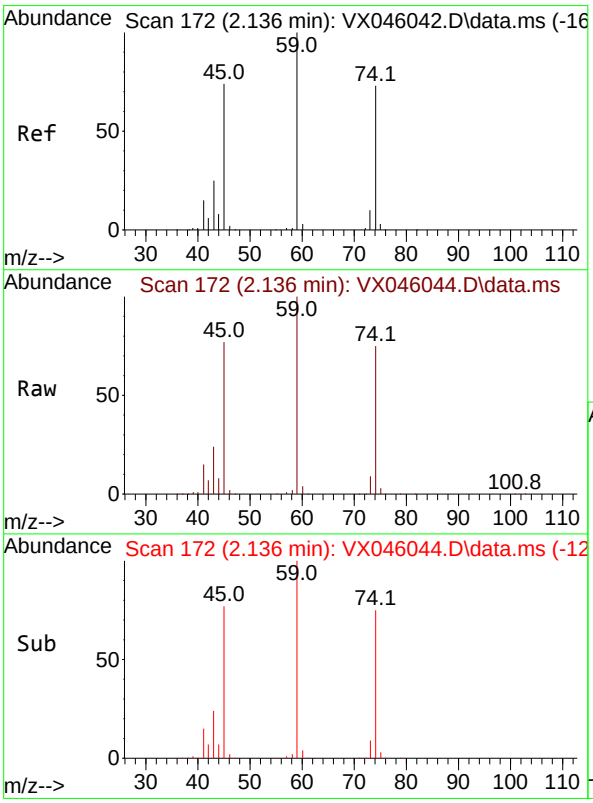
#7
Trichlorofluoromethane
Concen: 101.851 ug/l
RT: 1.868 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:101 Resp: 245108

Ion	Ratio	Lower	Upper
101	100		
103	66.4	51.0	76.4

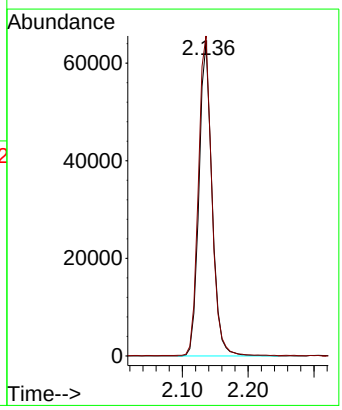


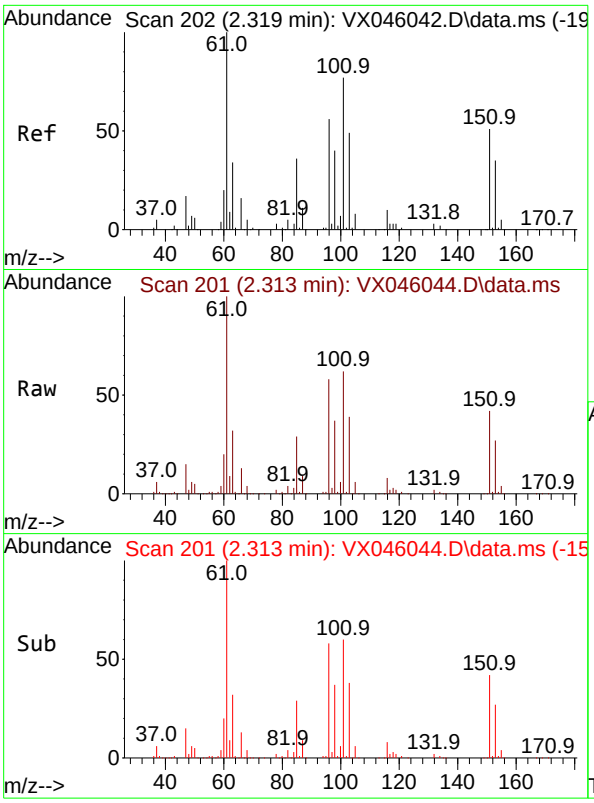


#8
Diethyl Ether
Concen: 111.791 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 74 Resp: 88441

Ion	Ratio	Lower	Upper
74	100		
45	104.7	54.9	164.8



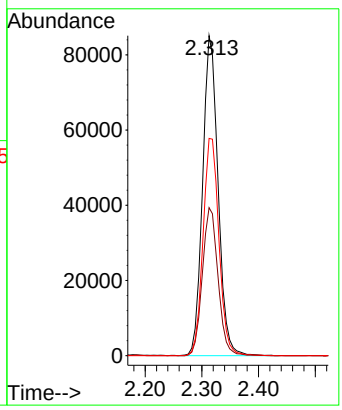


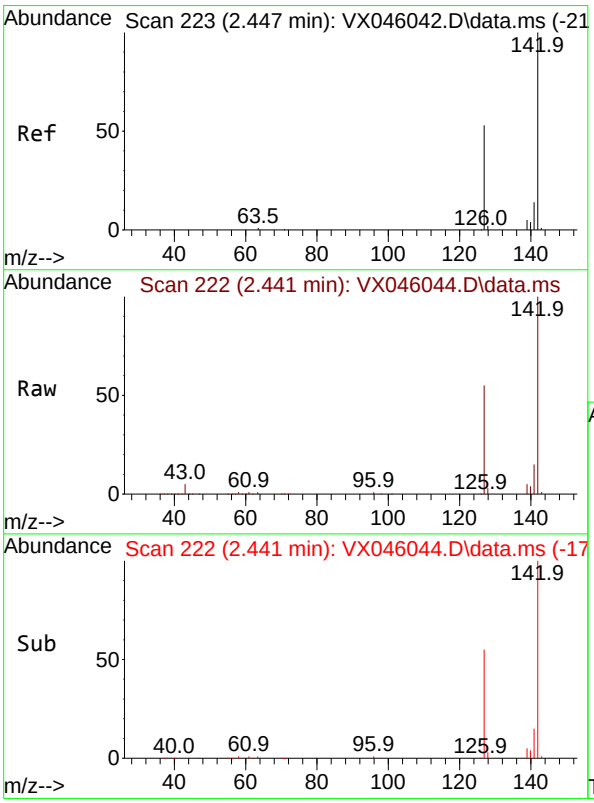
#9
1,1,2-Trichlorotrifluoroethane
Concen: 112.243 ug/l
RT: 2.313 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:101 Resp: 161404

Ion	Ratio	Lower	Upper
101	100		
85	46.8	38.6	58.0
151	69.8	55.2	82.8

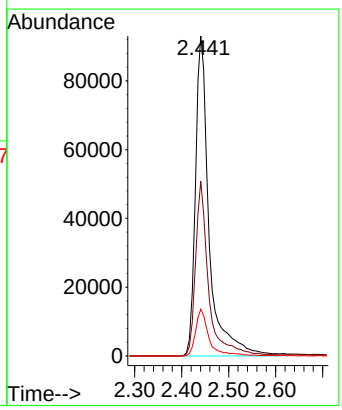


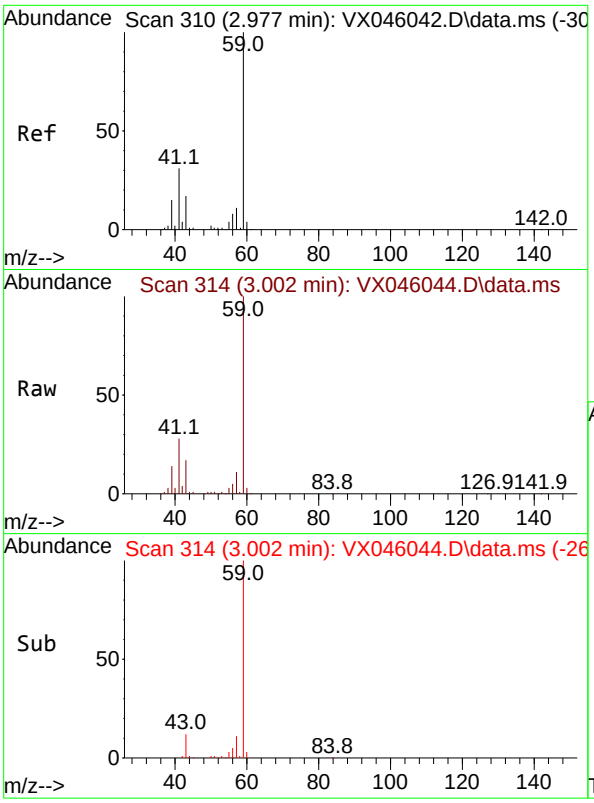


#10
Methyl Iodide
Concen: 112.441 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion:142 Resp: 189843

Ion	Ratio	Lower	Upper
142	100		
127	52.4	41.7	62.5
141	14.4	11.5	17.3



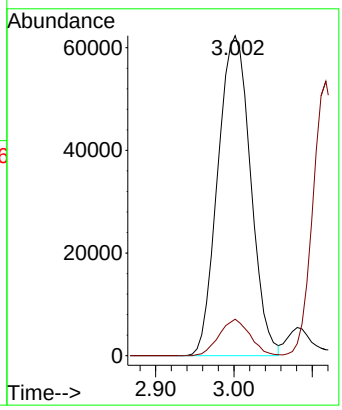


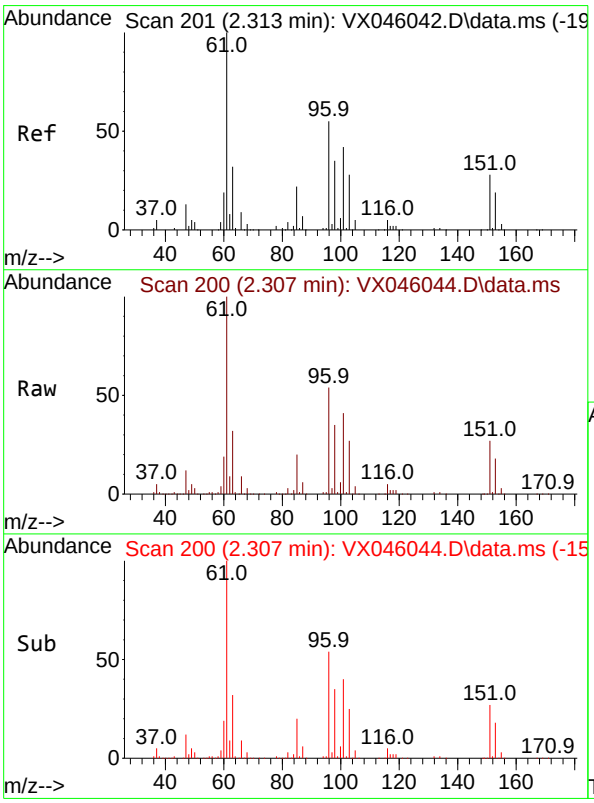
#11
Tert butyl alcohol
Concen: 616.119 ug/l
RT: 3.002 min Scan# 3
Delta R.T. 0.024 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 59 Resp: 181238

Ion	Ratio	Lower	Upper
59	100		
57	10.8	8.6	12.8

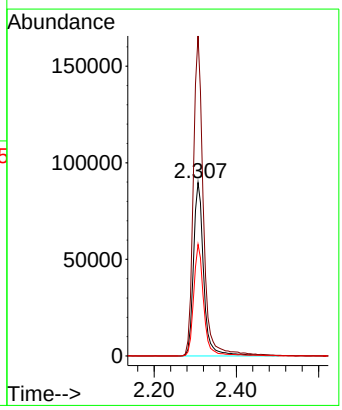


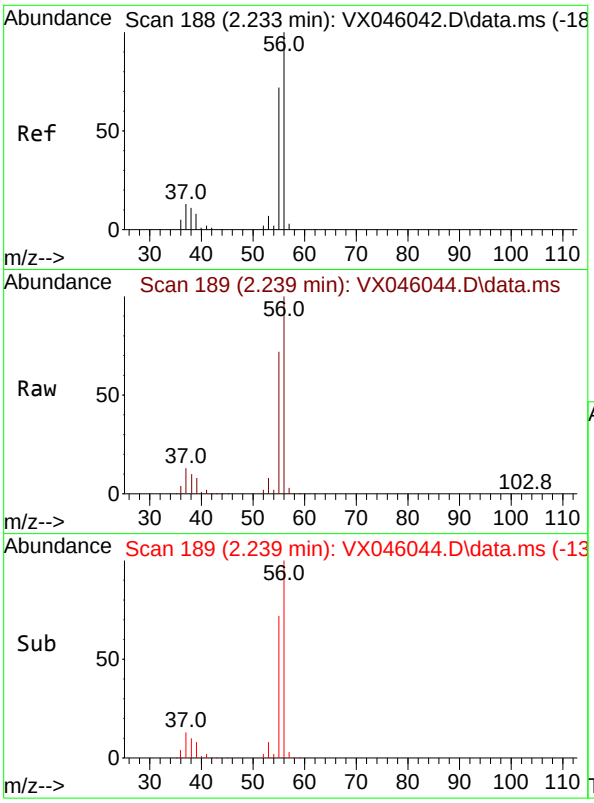


#12
1,1-Dichloroethene
Concen: 111.039 ug/l
RT: 2.307 min Scan# 200
Delta R.T. -0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 96 Resp: 155451

Ion	Ratio	Lower	Upper
96	100		
61	184.5	146.2	219.2
98	64.3	51.0	76.6



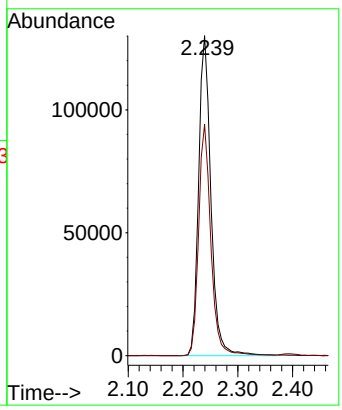


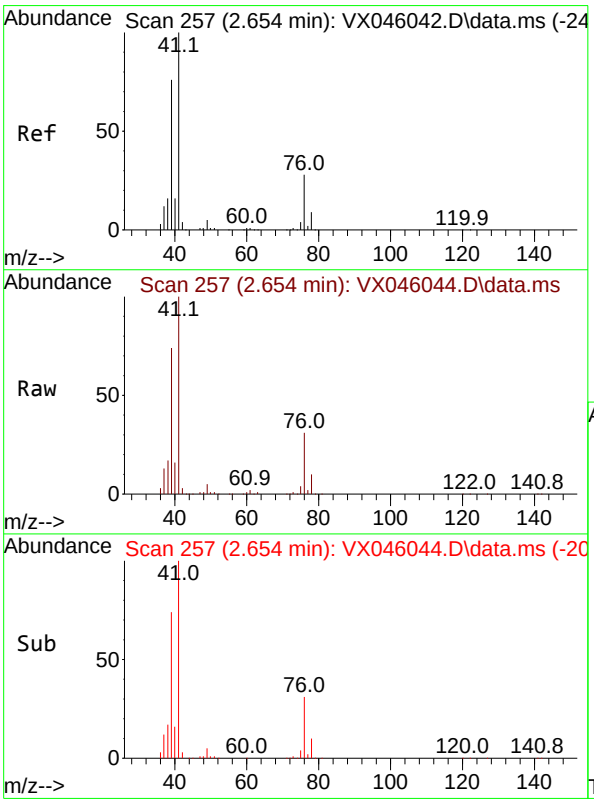
#13
Acrolein
Concen: 594.872 ug/l
RT: 2.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 56 Resp: 203257

Ion	Ratio	Lower	Upper
56	100		
55	72.1	56.2	84.4

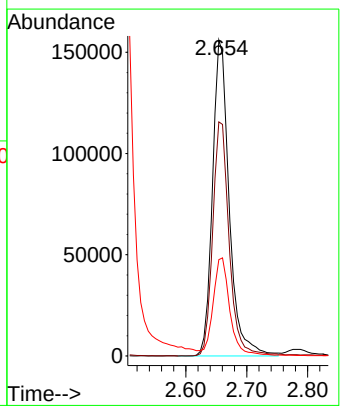


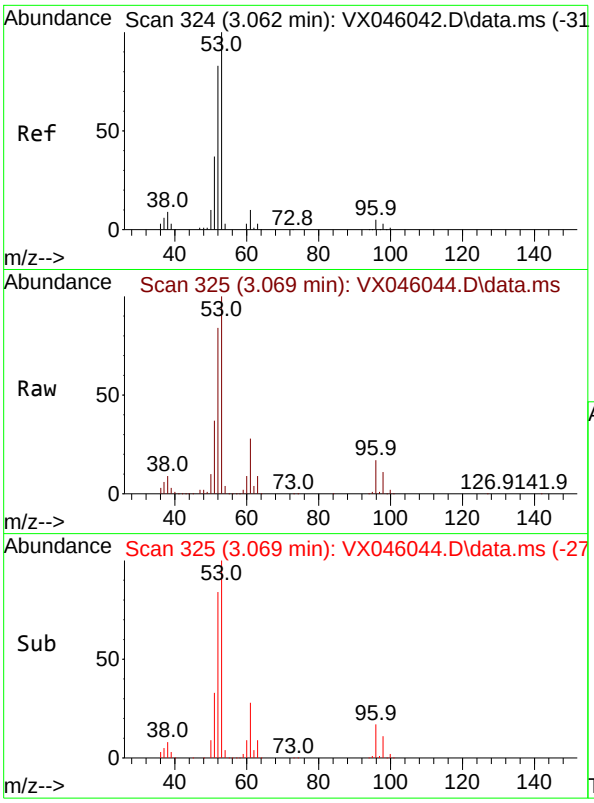


#14
Allyl chloride
Concen: 112.561 ug/l
RT: 2.654 min Scan# 257
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 41 Resp: 297776

Ion	Ratio	Lower	Upper
41	100		
39	73.7	60.6	90.8
76	31.8	24.9	37.3



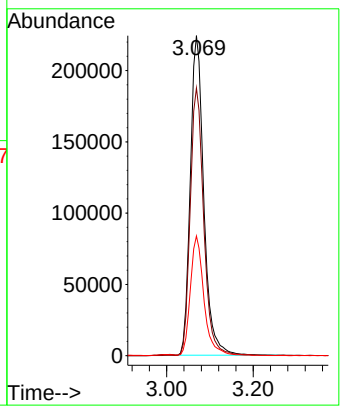


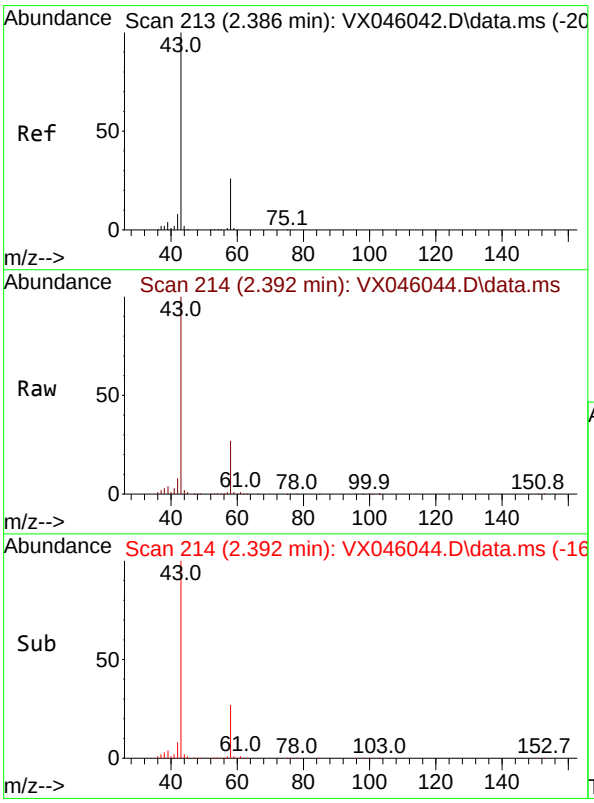
#15
Acrylonitrile
Concen: 550.973 ug/l
RT: 3.069 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 53 Resp: 484854

Ion	Ratio	Lower	Upper
53	100		
52	84.2	65.3	97.9
51	37.5	29.8	44.8

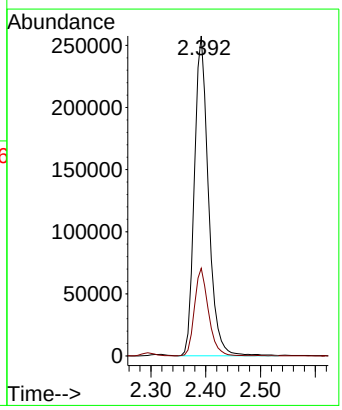


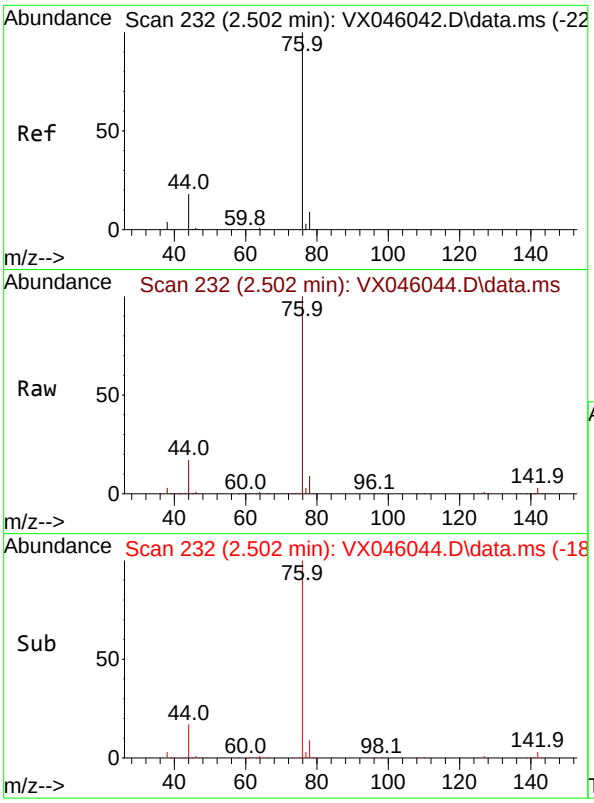


#16
Acetone
Concen: 545.754 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 43 Resp: 460820

Ion	Ratio	Lower	Upper
43	100		
58	27.3	21.2	31.8



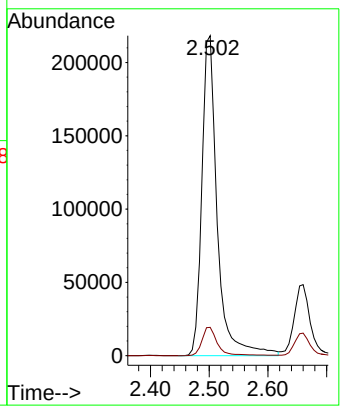


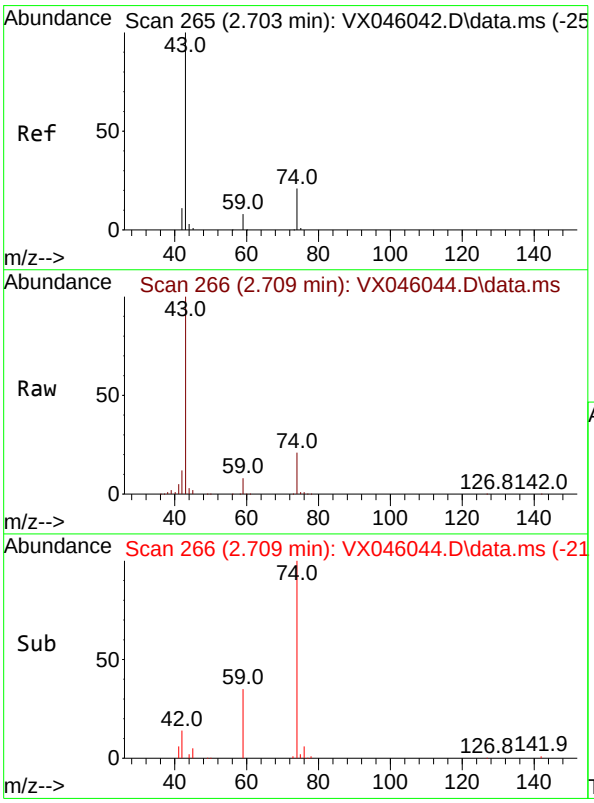
#17
Carbon Disulfide
Concen: 122.499 ug/l
RT: 2.502 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 76 Resp: 397353

Ion	Ratio	Lower	Upper
76	100		
78	8.8	7.0	10.4

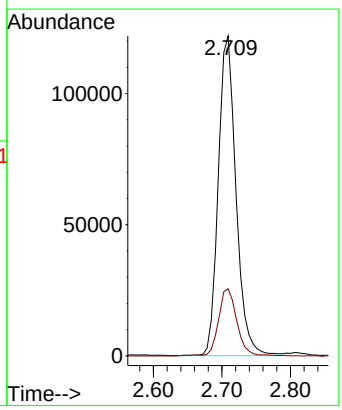


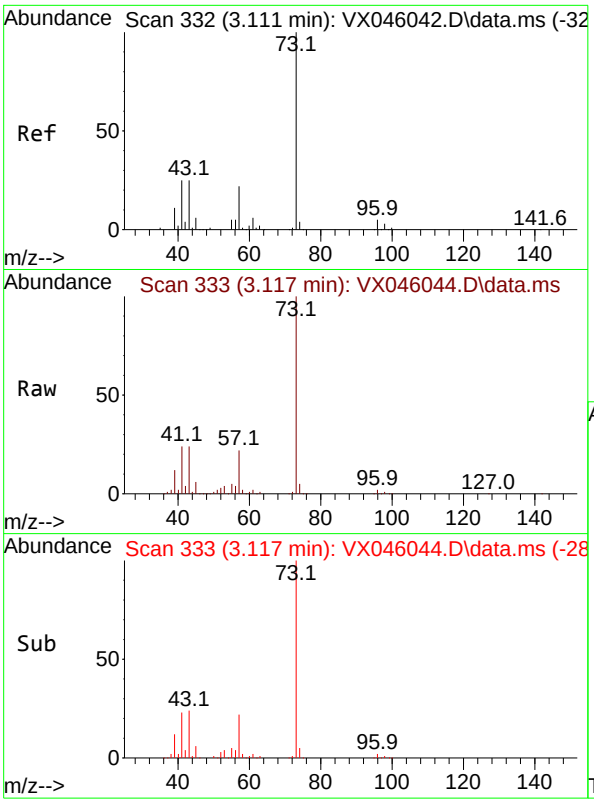


#18
Methyl Acetate
Concen: 108.099 ug/l
RT: 2.709 min Scan# 266
Delta R.T. 0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 43 Resp: 217885

Ion	Ratio	Lower	Upper
43	100		
74	21.9	16.7	25.1



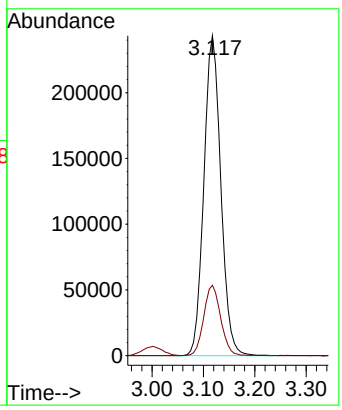


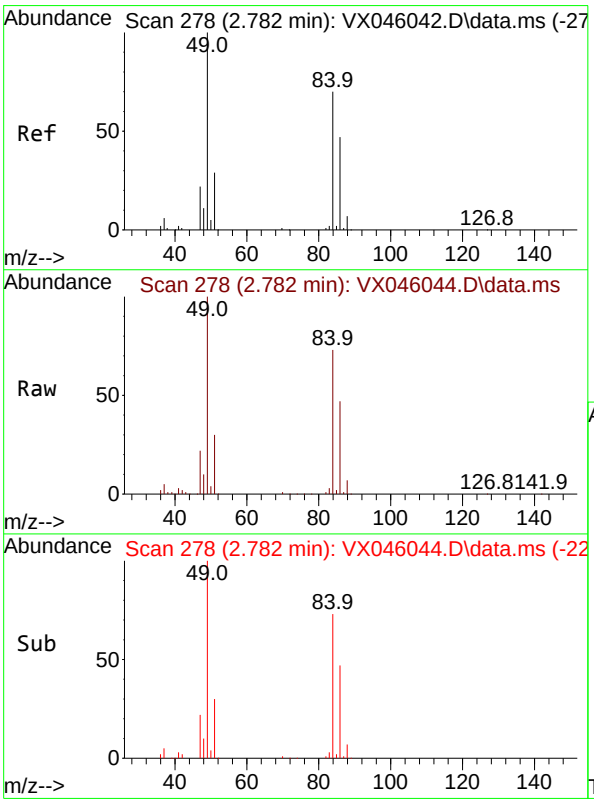
#19
Methyl tert-butyl Ether
Concen: 114.112 ug/l
RT: 3.117 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 73 Resp: 557210

Ion	Ratio	Lower	Upper
73	100		
57	22.0	17.7	26.5

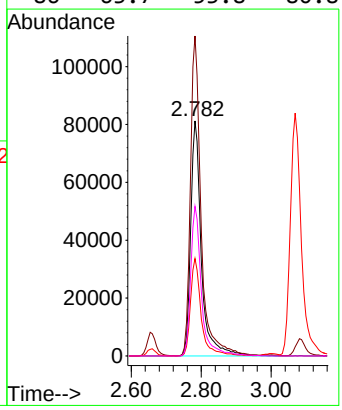


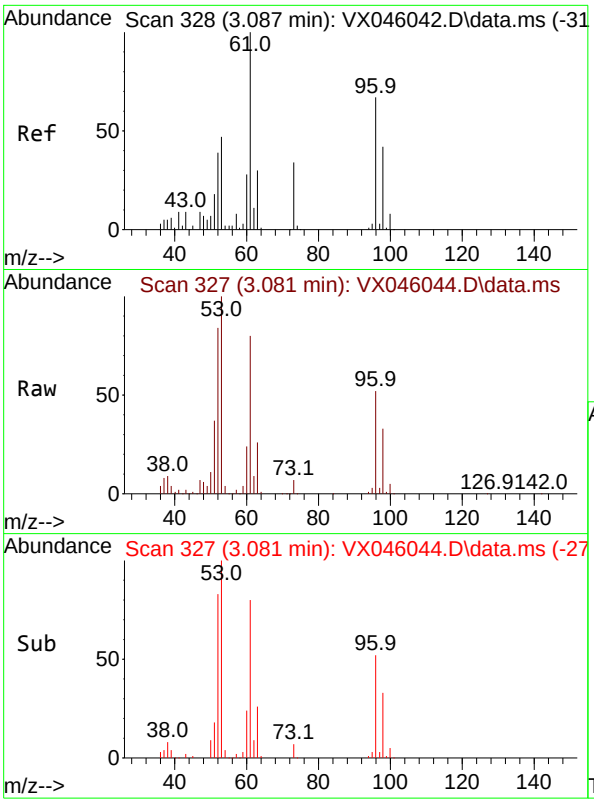


#20
Methylene Chloride
Concen: 100.579 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 84 Resp: 172035

Ion	Ratio	Lower	Upper
84	100		
49	136.0	113.9	170.9
51	41.5	33.5	50.3
86	63.7	53.8	80.8



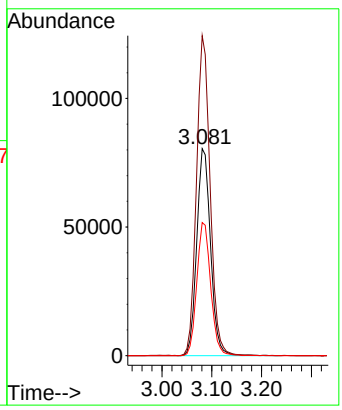


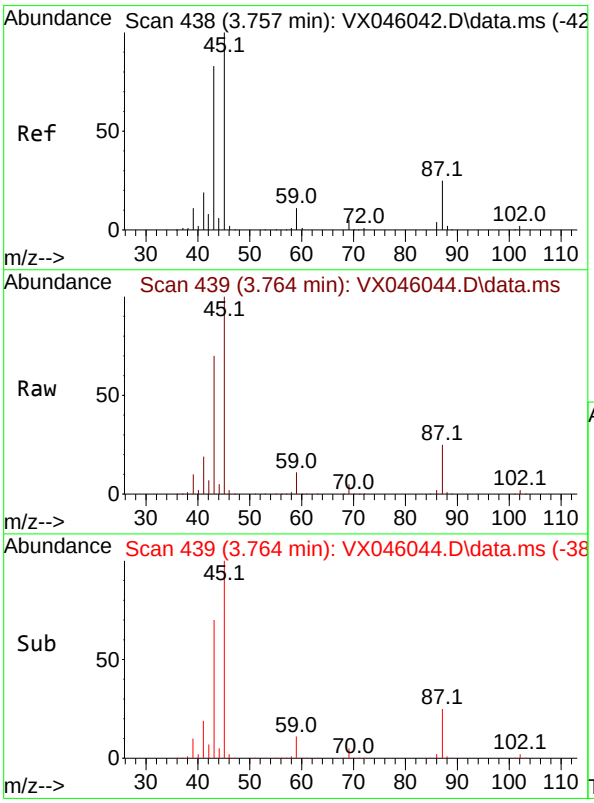
#21
trans-1,2-Dichloroethene
Concen: 108.241 ug/l
RT: 3.081 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 96 Resp: 154694

Ion	Ratio	Lower	Upper
96	100		
61	154.6	119.5	179.3
98	64.3	50.0	75.0

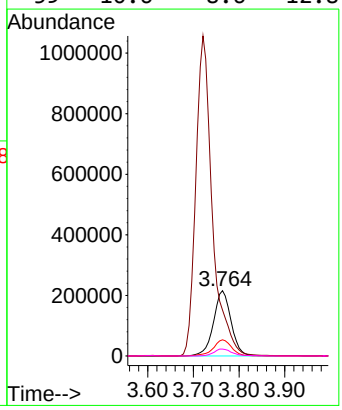


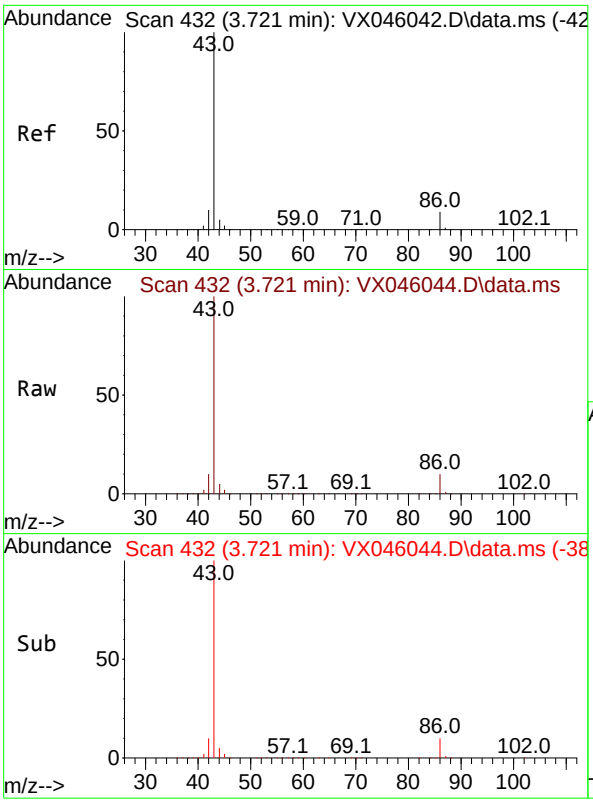


#22
Diisopropyl ether
Concen: 116.858 ug/l
RT: 3.764 min Scan# 439
Delta R.T. 0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 45 Resp: 577610

Ion	Ratio	Lower	Upper
45	100		
43	70.3	66.6	100.0
87	24.7	19.8	29.6
59	10.6	8.6	12.8



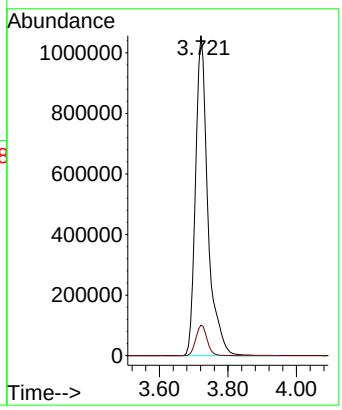


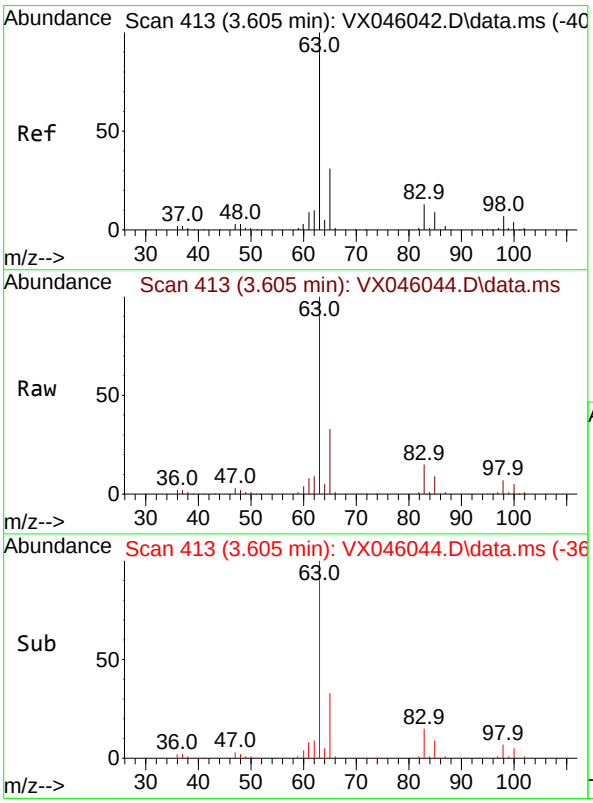
#23
Vinyl Acetate
Concen: 608.005 ug/l
RT: 3.721 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 2655751

Ion	Ratio	Lower	Upper
43	100		
86	9.6	7.5	11.3

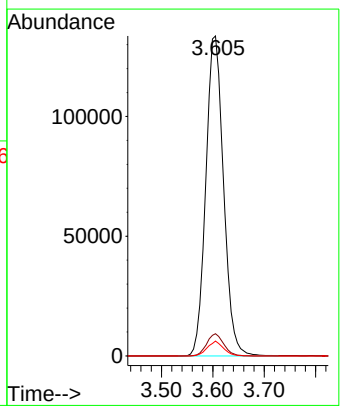


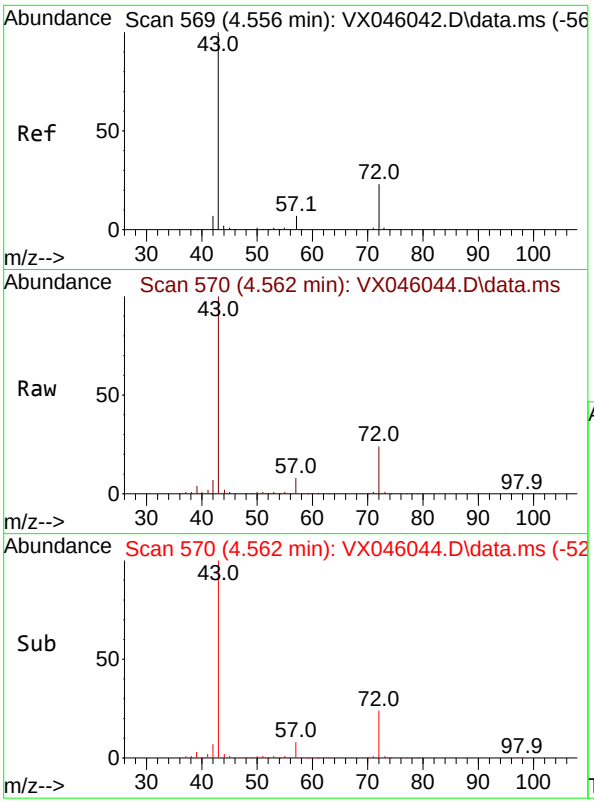


#24
1,1-Dichloroethane
Concen: 110.182 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 63 Resp: 320083

Ion	Ratio	Lower	Upper
63	100		
98	7.0	3.6	10.8
100	4.7	2.1	6.3



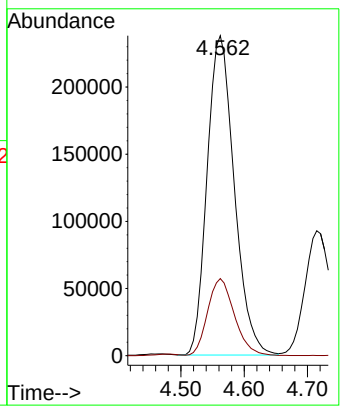


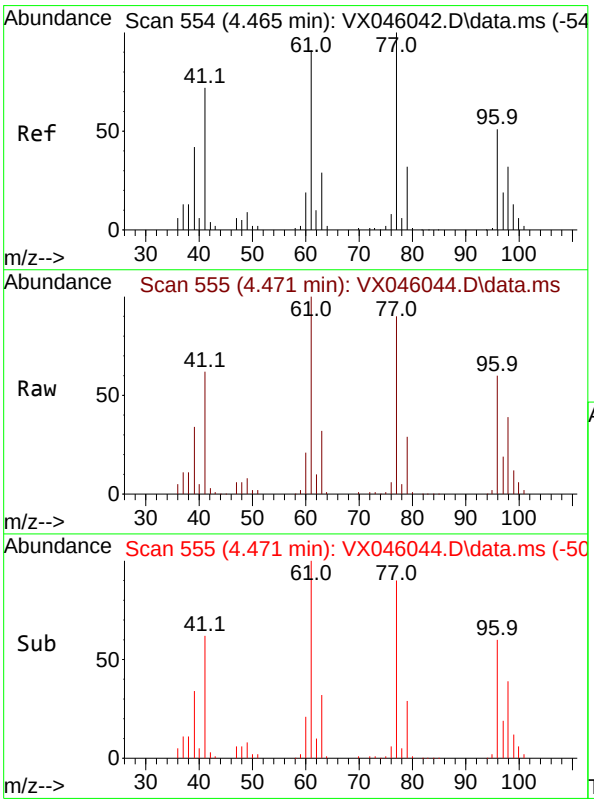
#25
2-Butanone
Concen: 581.292 ug/l
RT: 4.562 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 708463

Ion	Ratio	Lower	Upper
43	100		
72	24.0	18.4	27.6

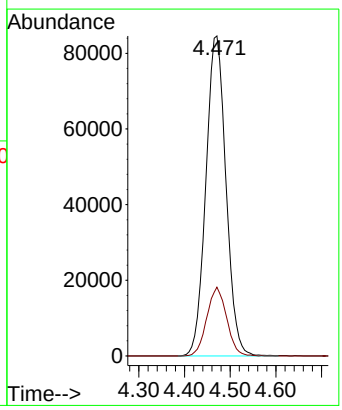


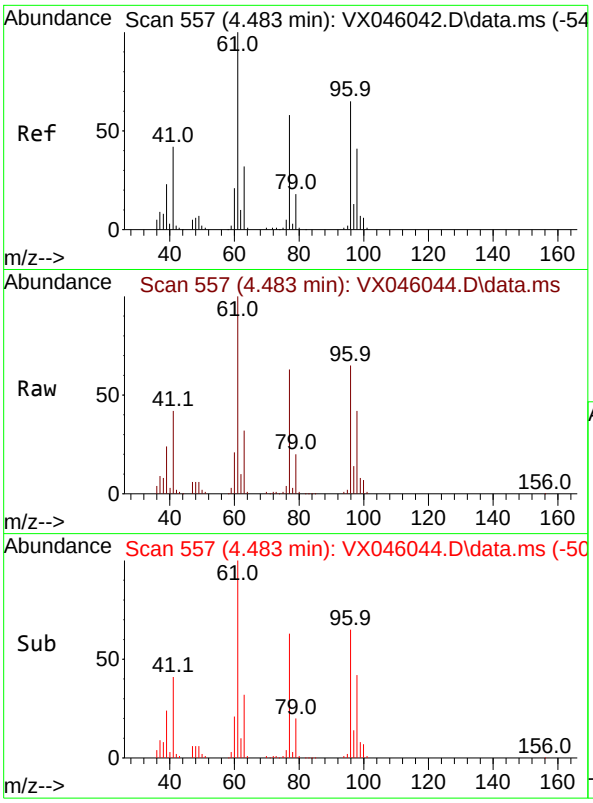


#26
2,2-Dichloropropane
Concen: 117.548 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 77 Resp: 258698

Ion	Ratio	Lower	Upper
77	100		
97	21.1	10.5	31.5



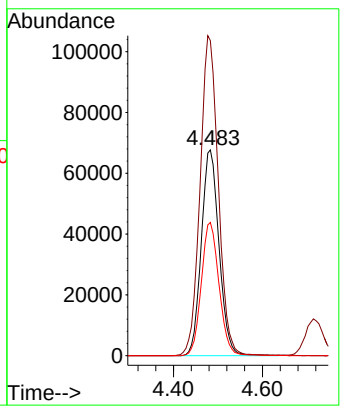


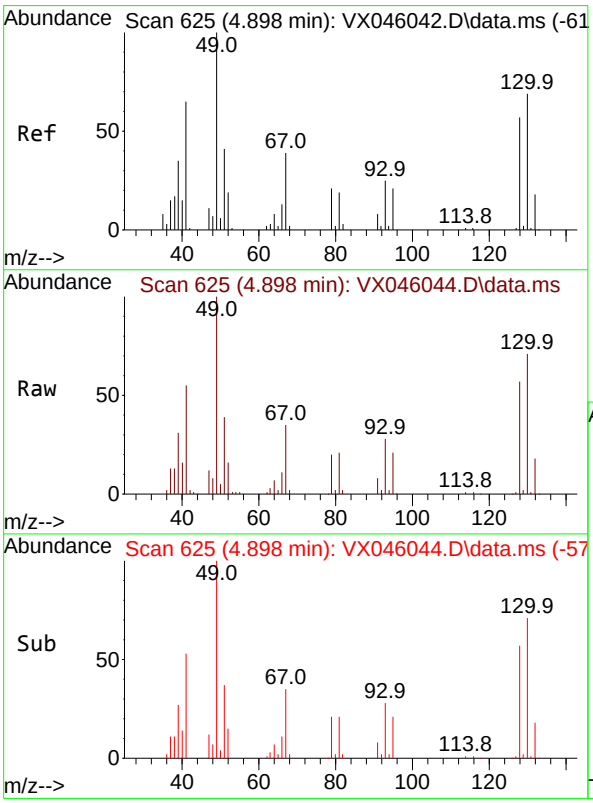
#27
cis-1,2-Dichloroethene
Concen: 108.994 ug/l
RT: 4.483 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 96 Resp: 187835

Ion	Ratio	Lower	Upper
96	100		
61	159.8	0.0	322.8
98	64.8	0.0	129.0

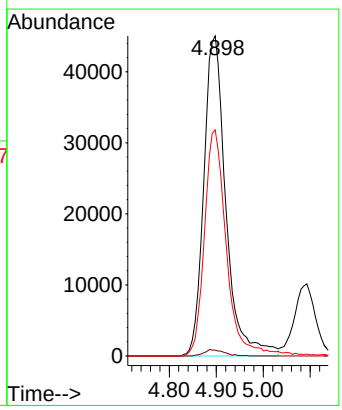


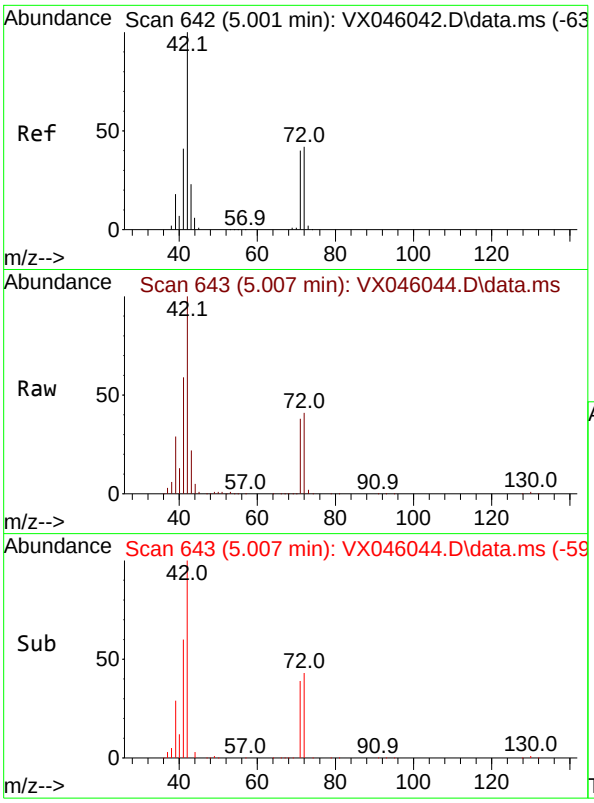


#28
Bromochloromethane
Concen: 95.108 ug/l
RT: 4.898 min Scan# 625
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 49 Resp: 146923

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	4.0
130	70.5	56.2	84.2



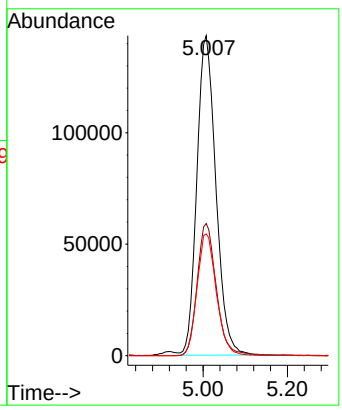


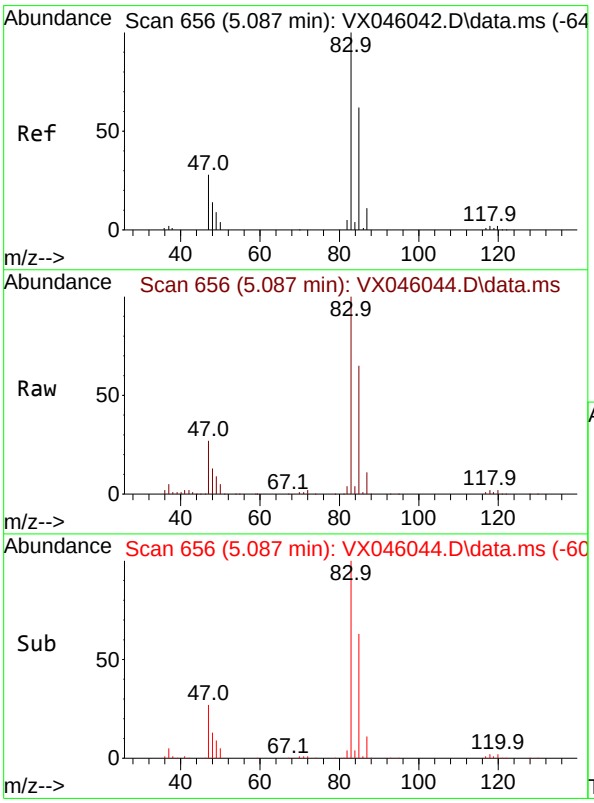
#29
Tetrahydrofuran
Concen: 569.081 ug/l
RT: 5.007 min Scan# 64
Delta R.T. 0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 42 Resp: 450456

Ion	Ratio	Lower	Upper
42	100		
72	41.6	33.7	50.5
71	38.7	31.4	47.2

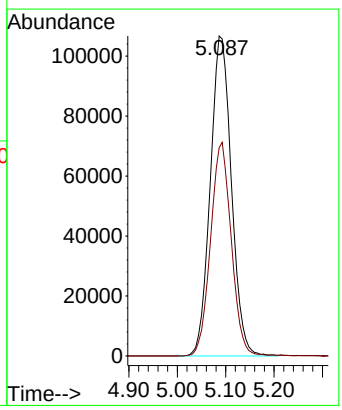


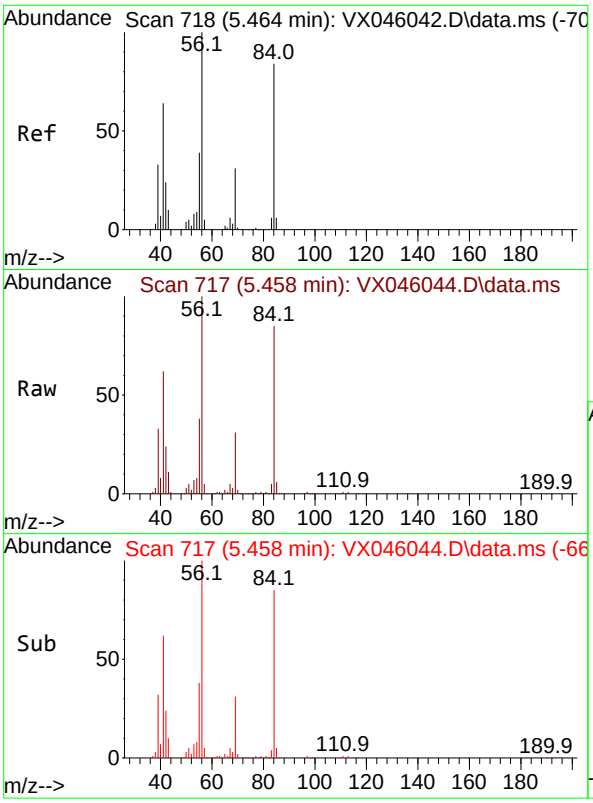


#30
Chloroform
Concen: 107.208 ug/l
RT: 5.087 min Scan# 656
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 83 Resp: 323659

Ion	Ratio	Lower	Upper
83	100		
85	65.1	49.3	73.9



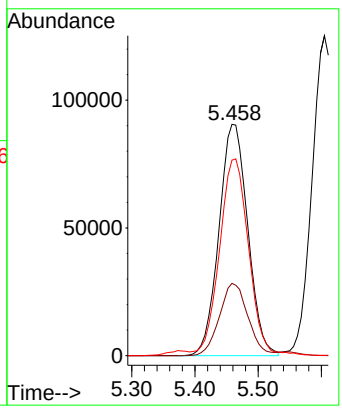


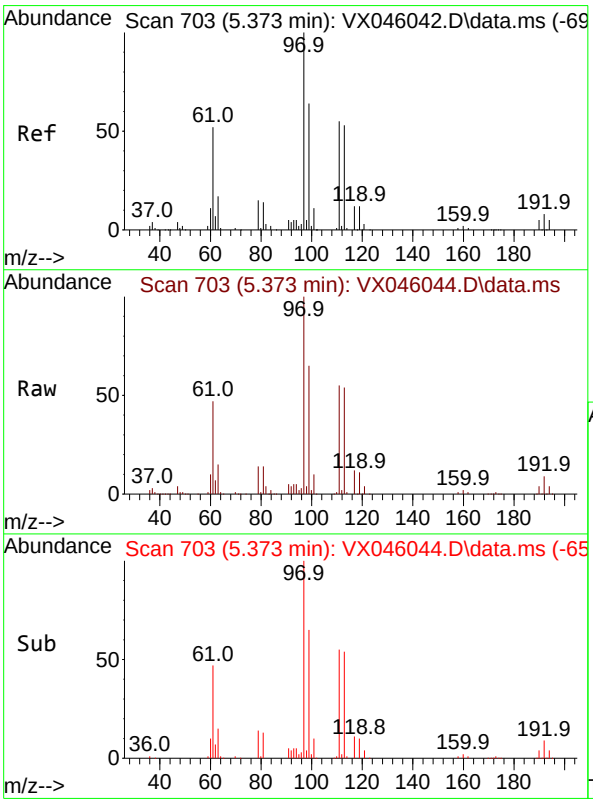
#31
Cyclohexane
Concen: 116.934 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 56 Resp: 286312

Ion	Ratio	Lower	Upper
56	100		
69	31.2	24.4	36.6
84	82.8	66.9	100.3

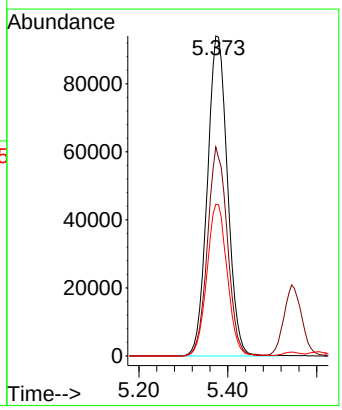


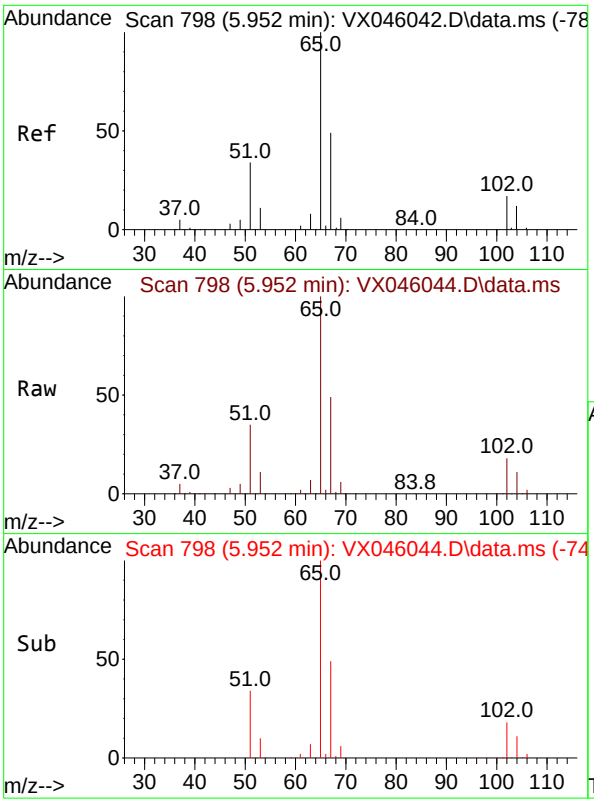


#32
1,1,1-Trichloroethane
Concen: 113.572 ug/l
RT: 5.373 min Scan# 703
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 97 Resp: 295702

Ion	Ratio	Lower	Upper
97	100		
99	64.3	51.8	77.6
61	48.0	40.1	60.1



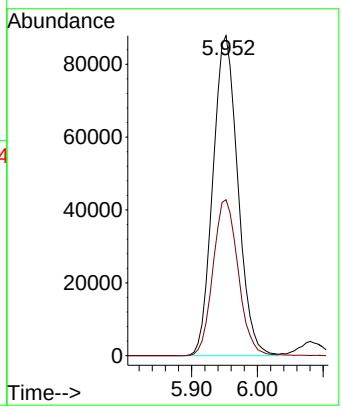


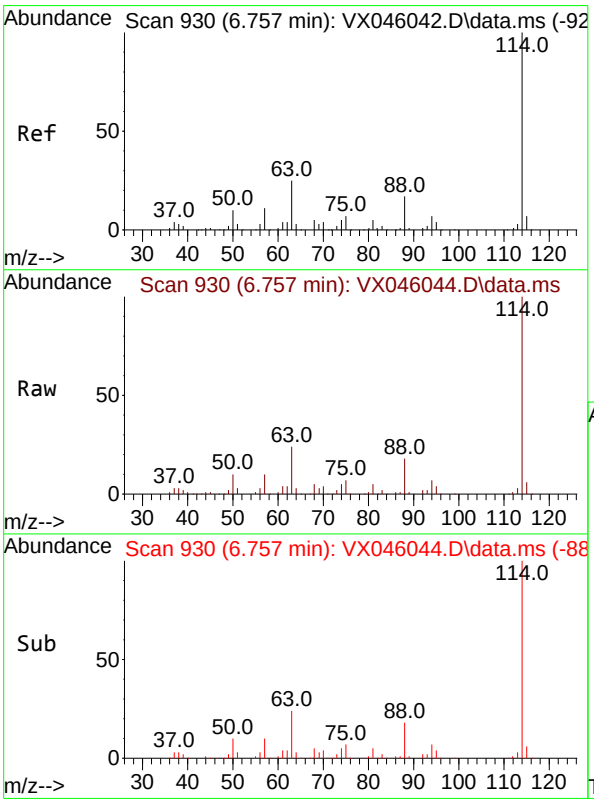
#33
1,2-Dichloroethane-d4
Concen: 93.983 ug/l
RT: 5.952 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 65 Resp: 231952

Ion	Ratio	Lower	Upper
65	100		
67	49.4	0.0	99.0

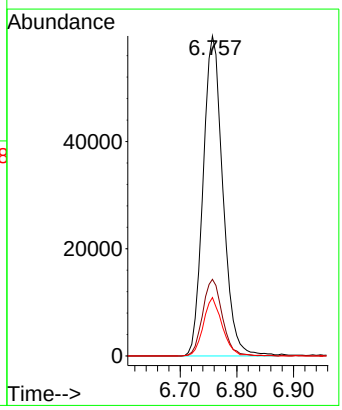


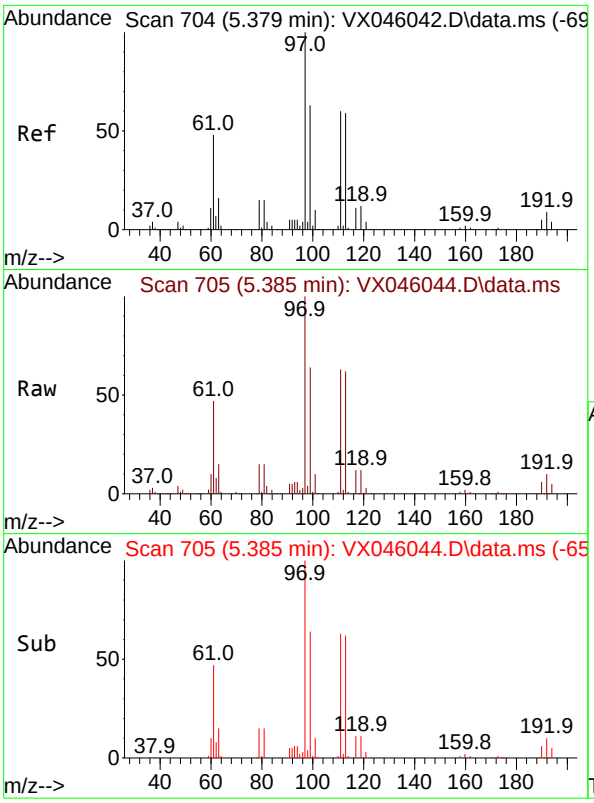


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion:114 Resp: 144975

Ion	Ratio	Lower	Upper
114	100		
63	23.9	0.0	49.2
88	18.3	0.0	33.6



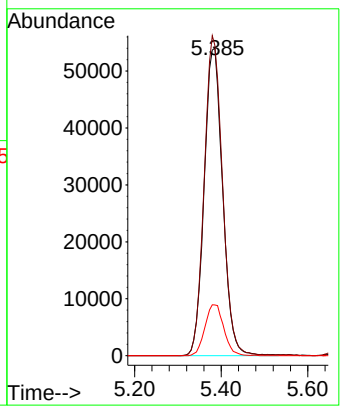


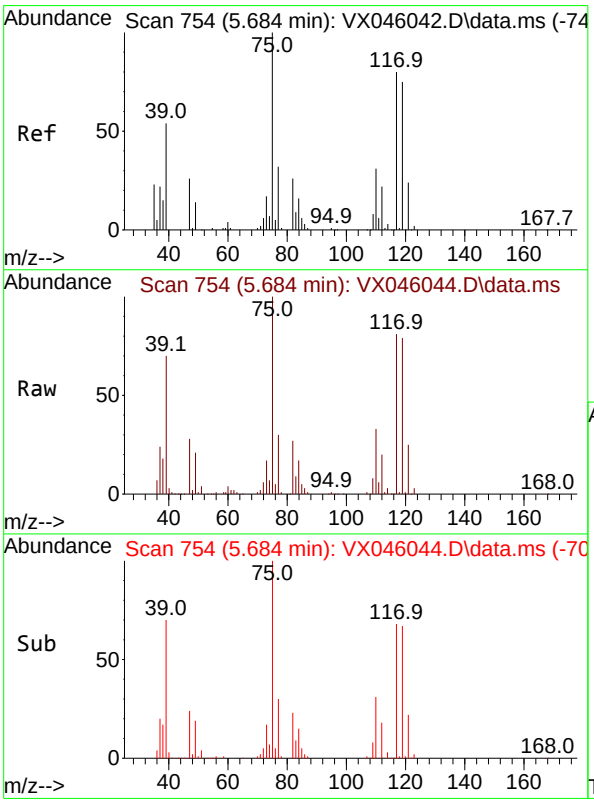
#35
Dibromofluoromethane
Concen: 98.562 ug/l
RT: 5.385 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:113 Resp: 160168

Ion	Ratio	Lower	Upper
113	100		
111	103.0	83.1	124.7
192	16.9	13.3	19.9

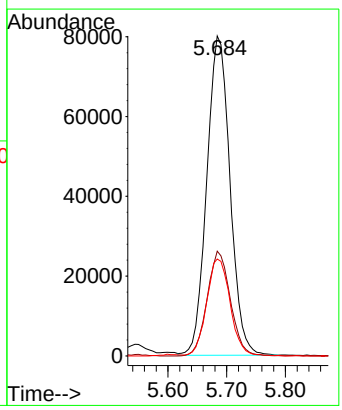


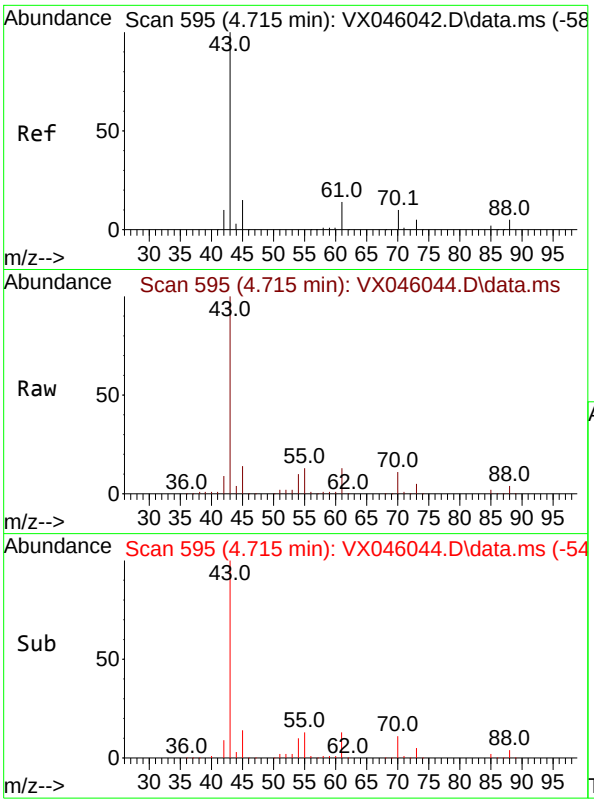


#36
1,1-Dichloropropene
Concen: 116.462 ug/l
RT: 5.684 min Scan# 754
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 75 Resp: 219731

Ion	Ratio	Lower	Upper
75	100		
110	32.9	16.3	48.9
77	30.8	24.3	36.5



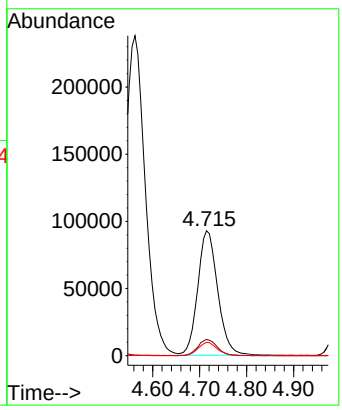


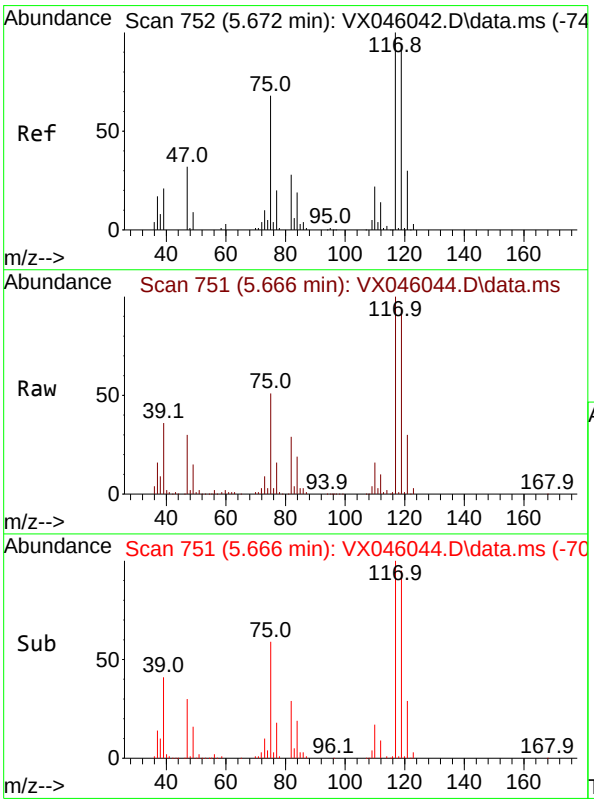
#37
Ethyl Acetate
Concen: 115.889 ug/l
RT: 4.715 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 274312

Ion	Ratio	Lower	Upper
43	100		
61	12.5	10.3	15.5
70	10.2	7.9	11.9

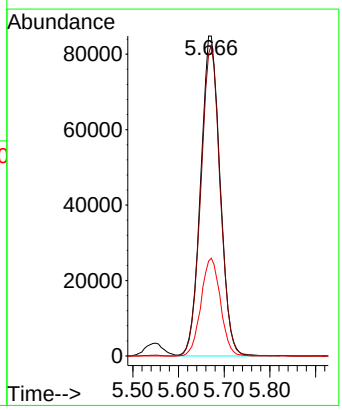


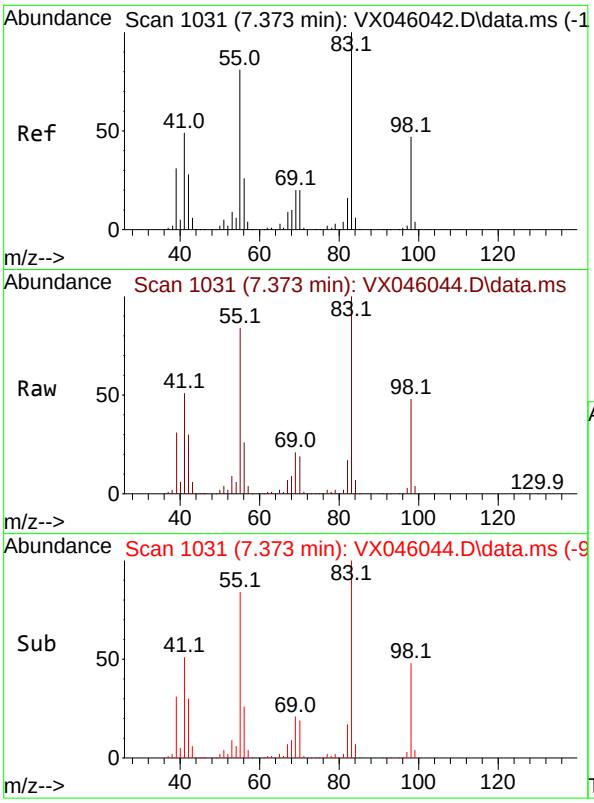


#38
Carbon Tetrachloride
Concen: 115.760 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion:117 Resp: 250916

Ion	Ratio	Lower	Upper
117	100		
119	94.3	75.2	112.8
121	29.7	24.2	36.4



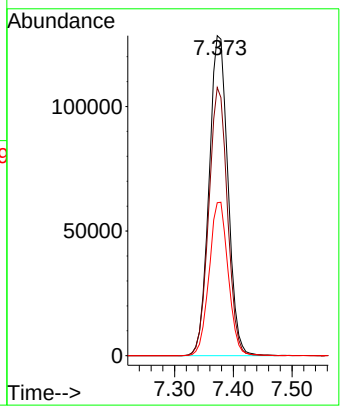


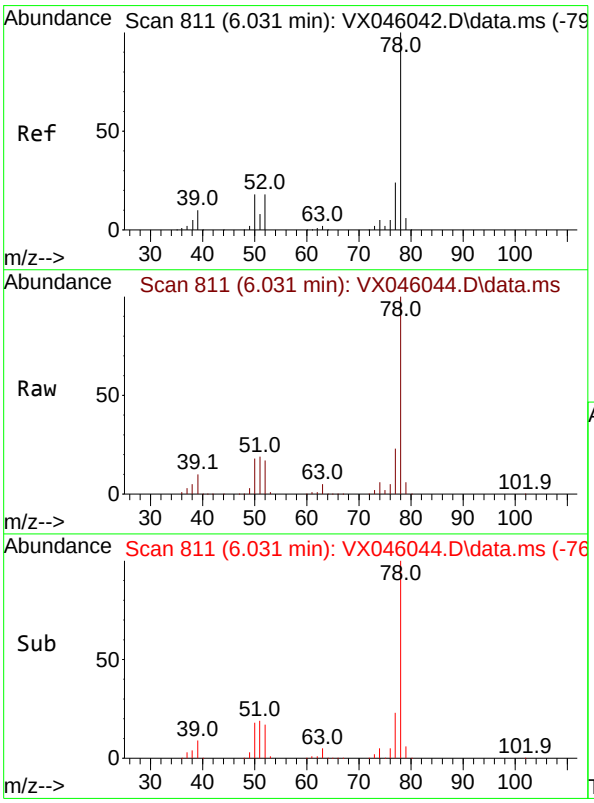
#39
Methylcyclohexane
Concen: 121.107 ug/l
RT: 7.373 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 83 Resp: 286311

Ion	Ratio	Lower	Upper
83	100		
55	83.8	64.7	97.1
98	47.8	37.4	56.2

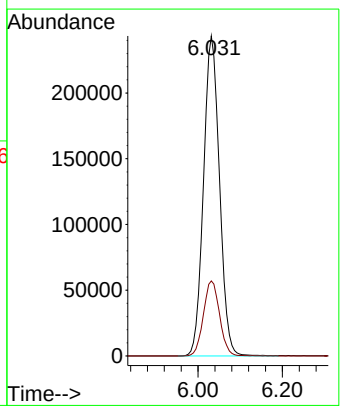


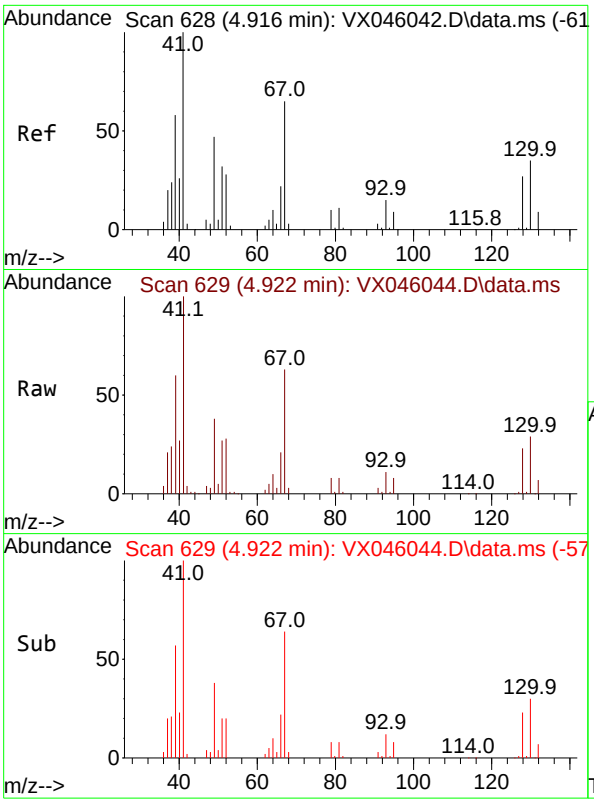


#40
Benzene
Concen: 109.813 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 78 Resp: 642178

Ion	Ratio	Lower	Upper
78	100		
77	23.4	19.0	28.4



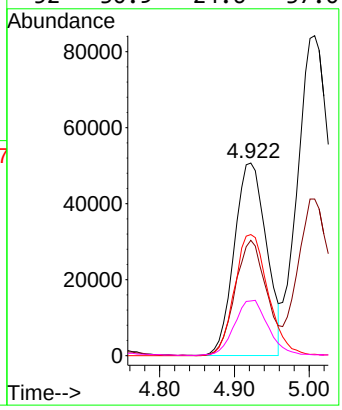


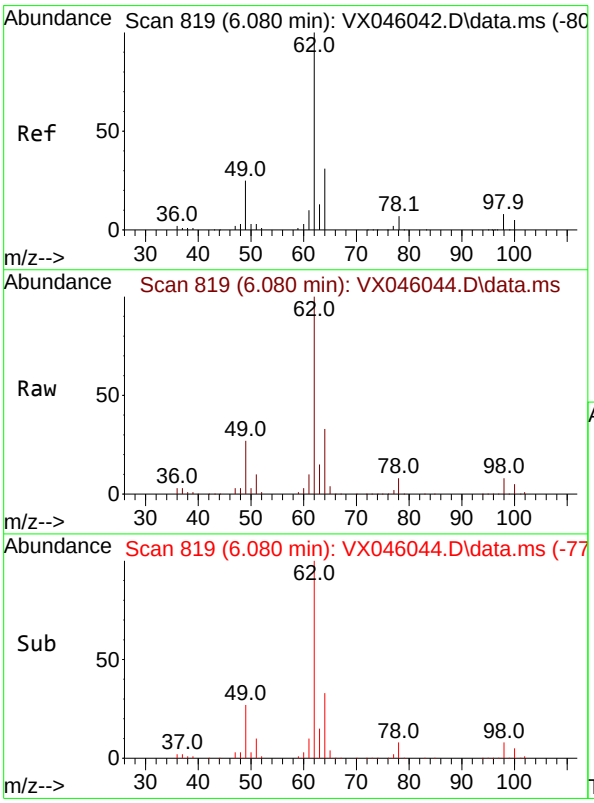
#41
Methacrylonitrile
Concen: 115.139 ug/l
RT: 4.922 min Scan# 6
Delta R.T. 0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 41 Resp: 151424

Ion	Ratio	Lower	Upper
41	100		
39	60.0	47.2	70.8
67	65.9	50.7	76.1
52	30.9	24.6	37.0

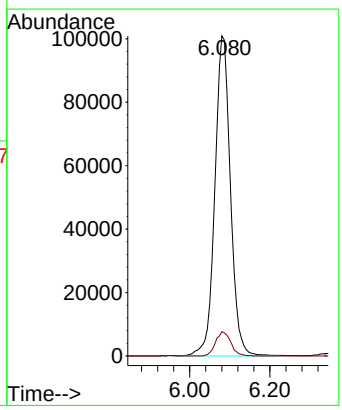


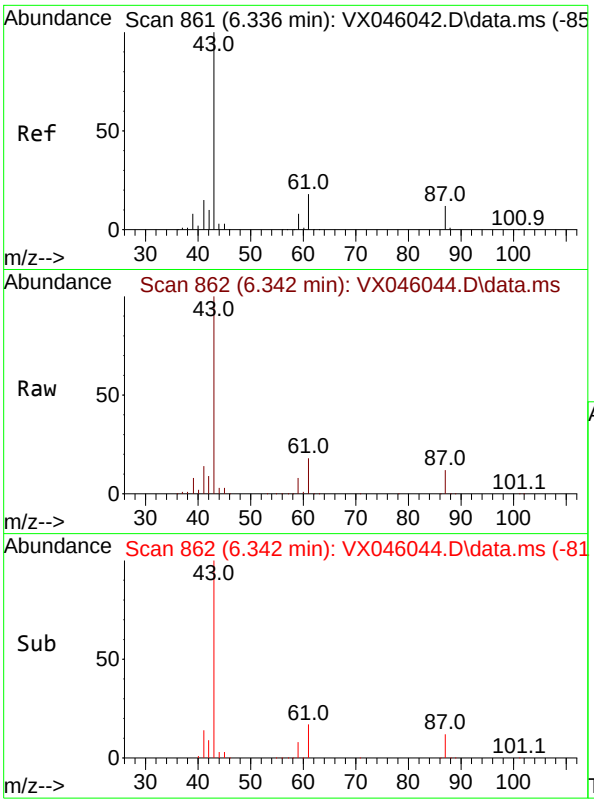


#42
1,2-Dichloroethane
Concen: 112.492 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 62 Resp: 271992

Ion	Ratio	Lower	Upper
62	100		
98	7.4	0.0	15.2



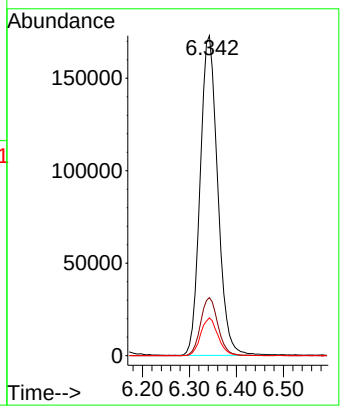


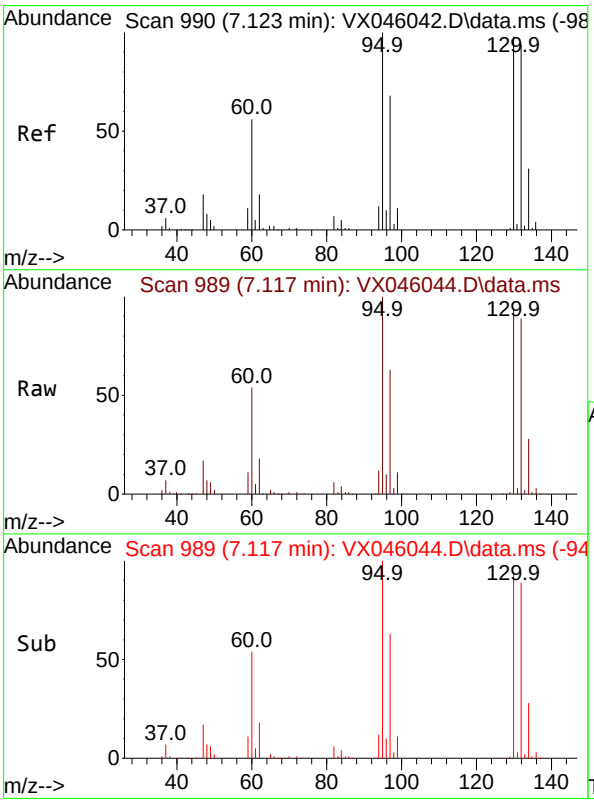
#43
Isopropyl Acetate
Concen: 123.780 ug/l
RT: 6.342 min Scan# 8
Delta R.T. 0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 447871

Ion	Ratio	Lower	Upper
43	100		
61	18.1	14.3	21.5
87	11.7	9.5	14.3

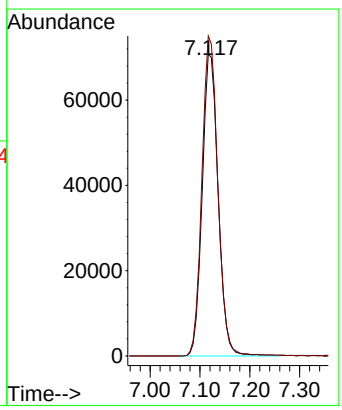


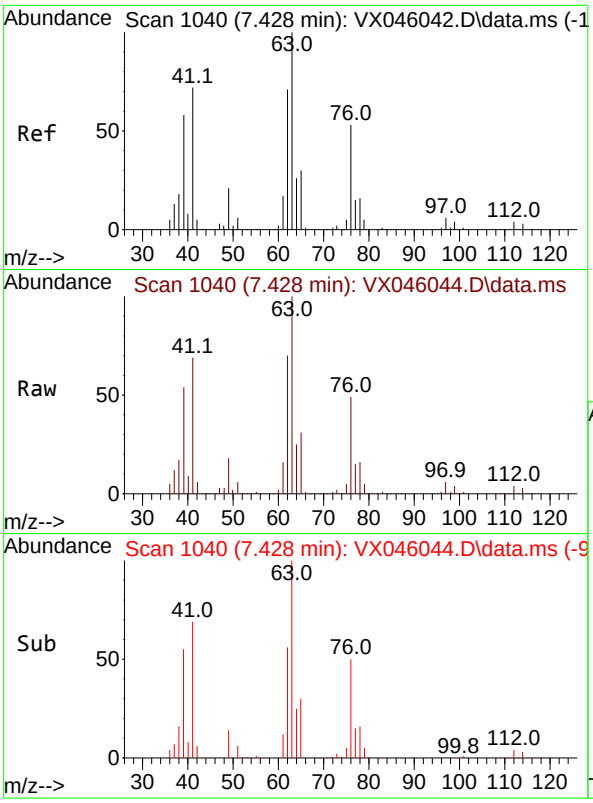


#44
Trichloroethene
Concen: 114.032 ug/l
RT: 7.117 min Scan# 989
Delta R.T. -0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion:130 Resp: 157641

Ion	Ratio	Lower	Upper
130	100		
95	105.9	0.0	204.2



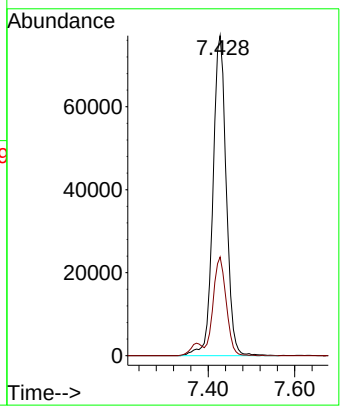


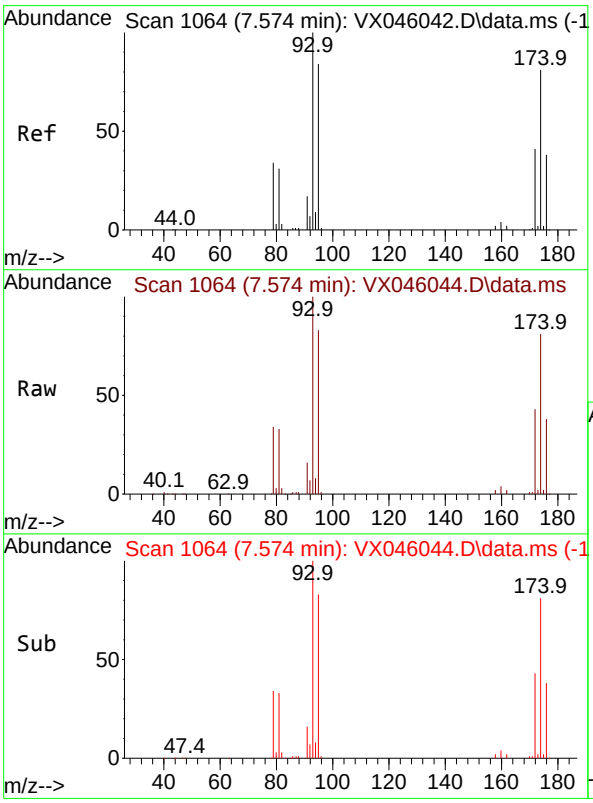
#45
1,2-Dichloropropane
Concen: 113.217 ug/l
RT: 7.428 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 63 Resp: 164505

Ion	Ratio	Lower	Upper
63	100		
65	30.8	24.1	36.1

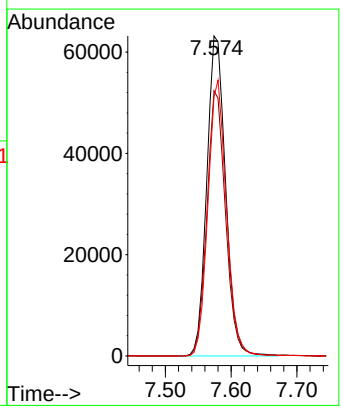


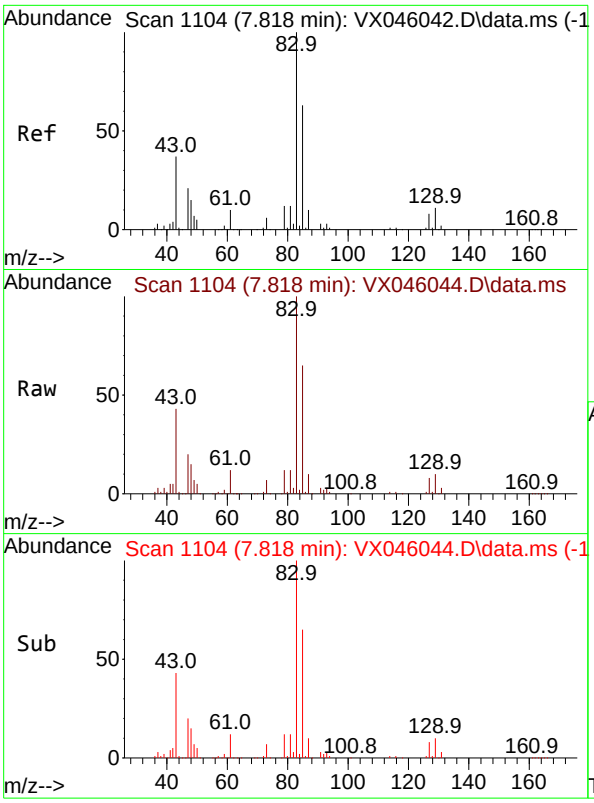


#46
Dibromomethane
Concen: 109.869 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 93 Resp: 125846

Ion	Ratio	Lower	Upper
93	100		
95	82.4	65.6	98.4
174	85.0	68.2	102.2



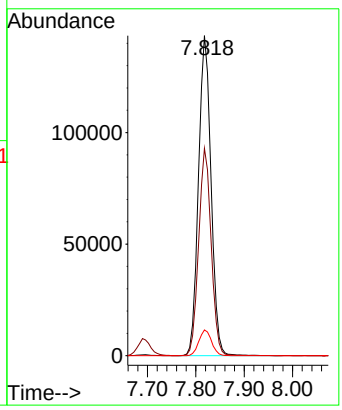


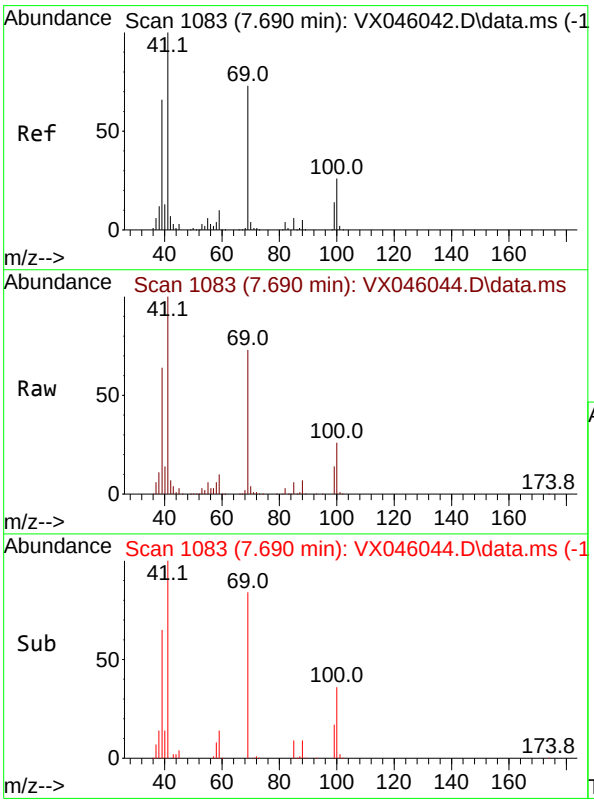
#47
Bromodichloromethane
Concen: 116.365 ug/l
RT: 7.818 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 83 Resp: 258326

Ion	Ratio	Lower	Upper
83	100		
85	64.8	50.5	75.7
127	8.0	6.5	9.7

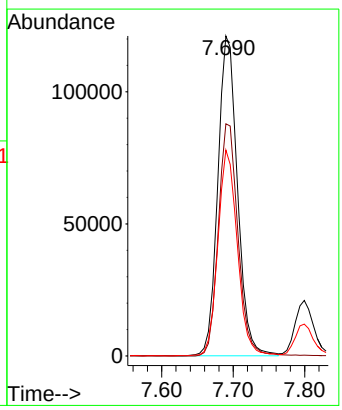


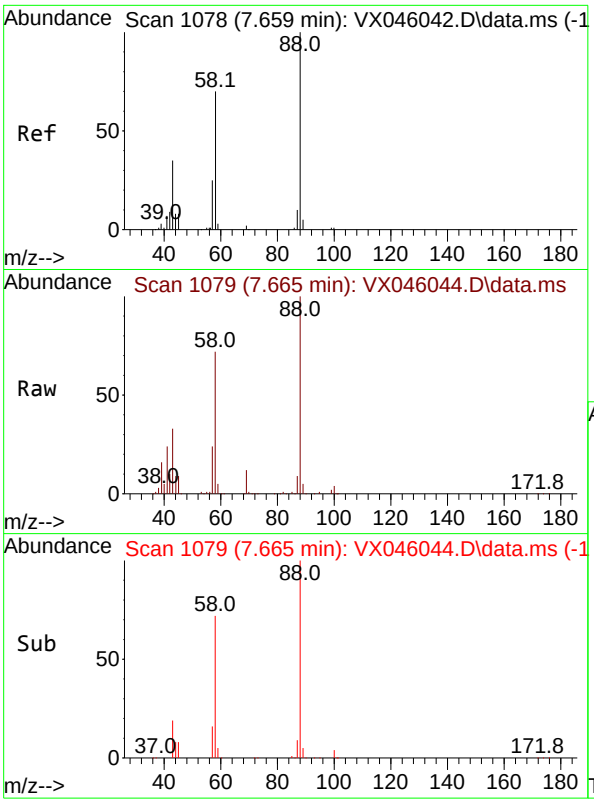


#48
Methyl methacrylate
Concen: 124.356 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 41 Resp: 231040

Ion	Ratio	Lower	Upper
41	100		
69	73.0	58.5	87.7
39	63.8	51.7	77.5



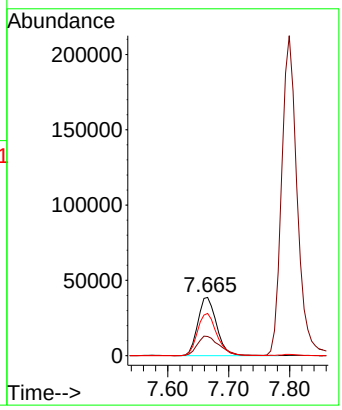


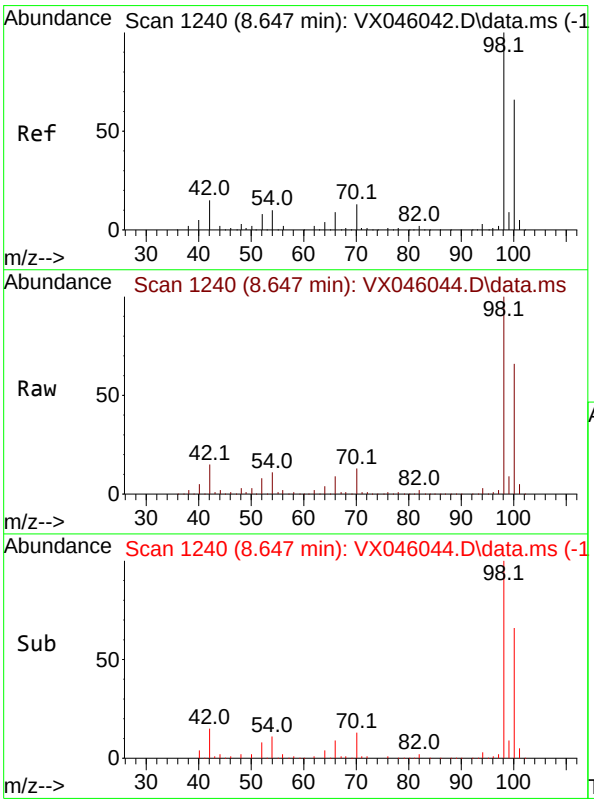
#49
1,4-Dioxane
Concen: 2241.695 ug/l
RT: 7.665 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 88 Resp: 82800

Ion	Ratio	Lower	Upper
88	100		
43	40.0	33.4	50.2
58	74.8	58.6	88.0

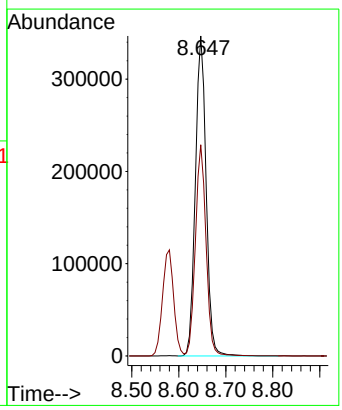


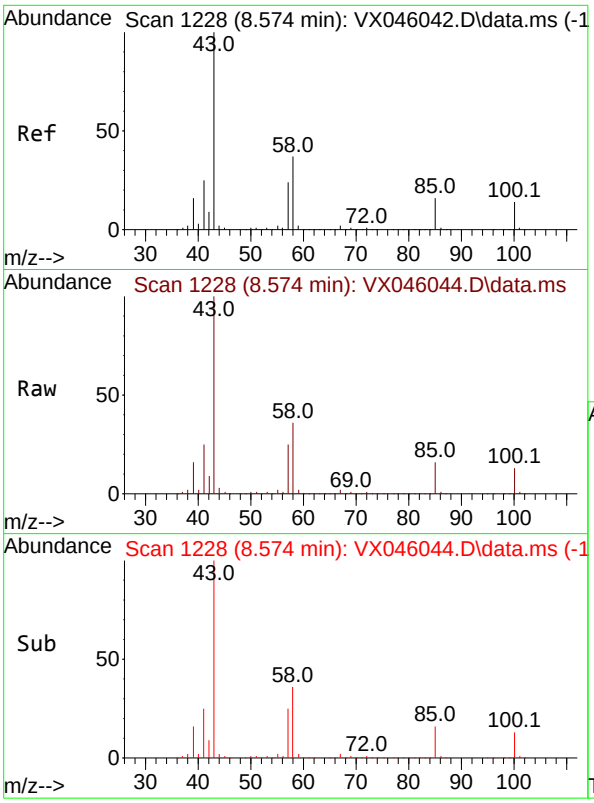


#50
Toluene-d8
Concen: 101.252 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 98 Resp: 554390

Ion	Ratio	Lower	Upper
98	100		
100	65.4	53.5	80.3



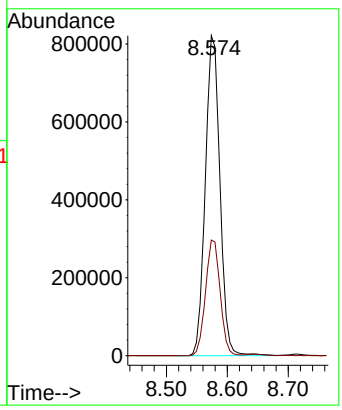


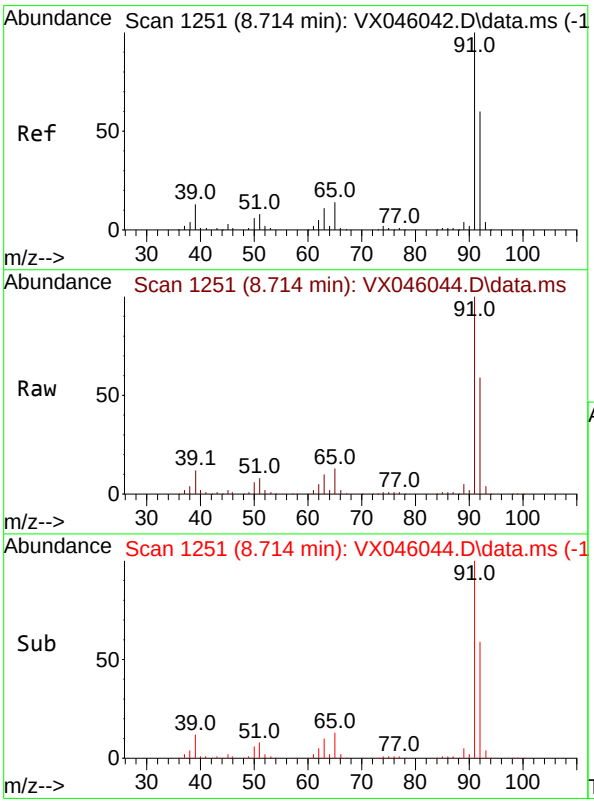
#51
4-Methyl-2-Pentanone
Concen: 577.831 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 1371275

Ion	Ratio	Lower	Upper
43	100		
58	36.2	28.9	43.3

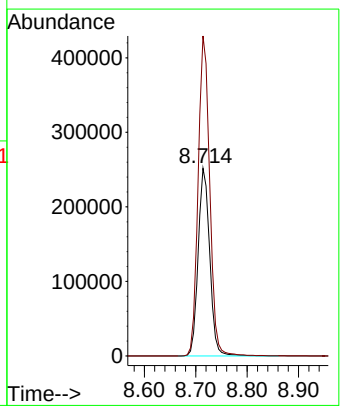


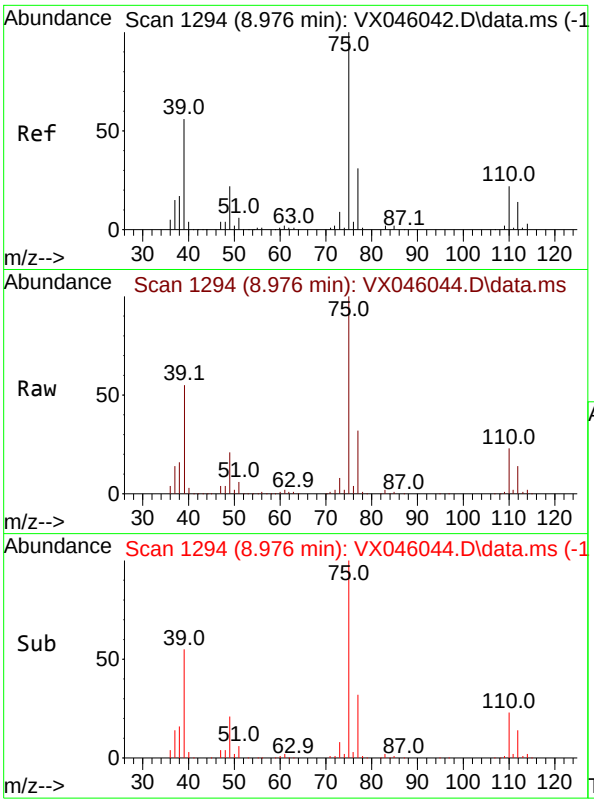


#52
Toluene
Concen: 113.430 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 92 Resp: 393323

Ion	Ratio	Lower	Upper
92	100		
91	171.0	136.6	205.0



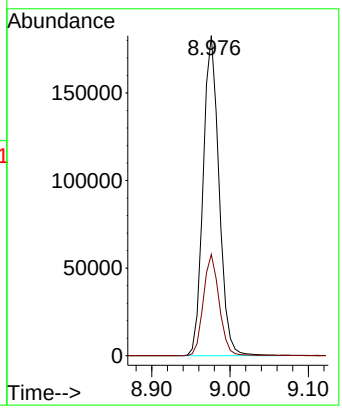


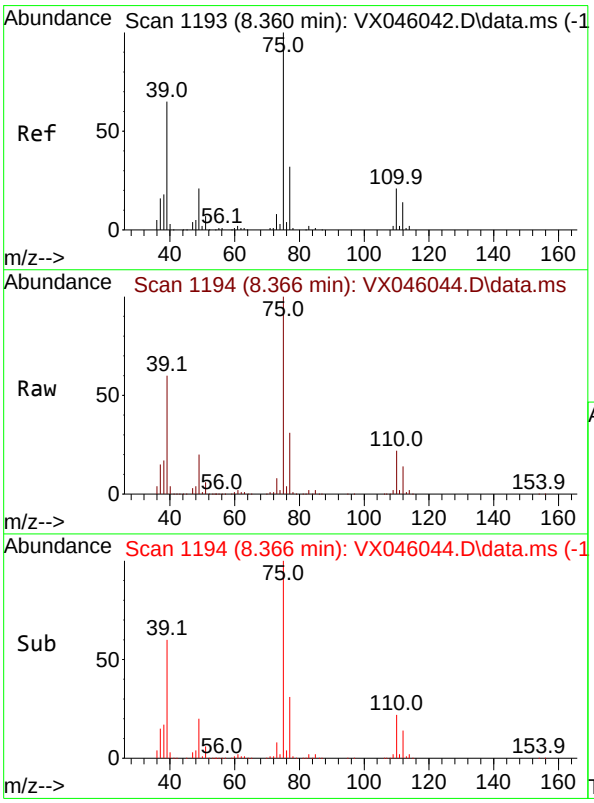
#53
t-1,3-Dichloropropene
Concen: 138.001 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 75 Resp: 257233

Ion	Ratio	Lower	Upper
75	100		
77	31.7	25.0	37.6

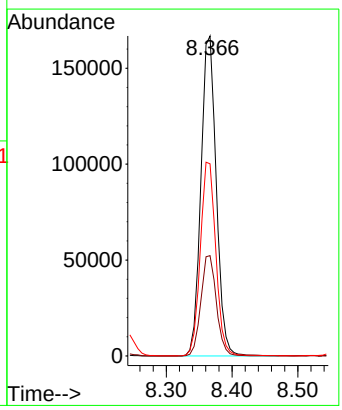


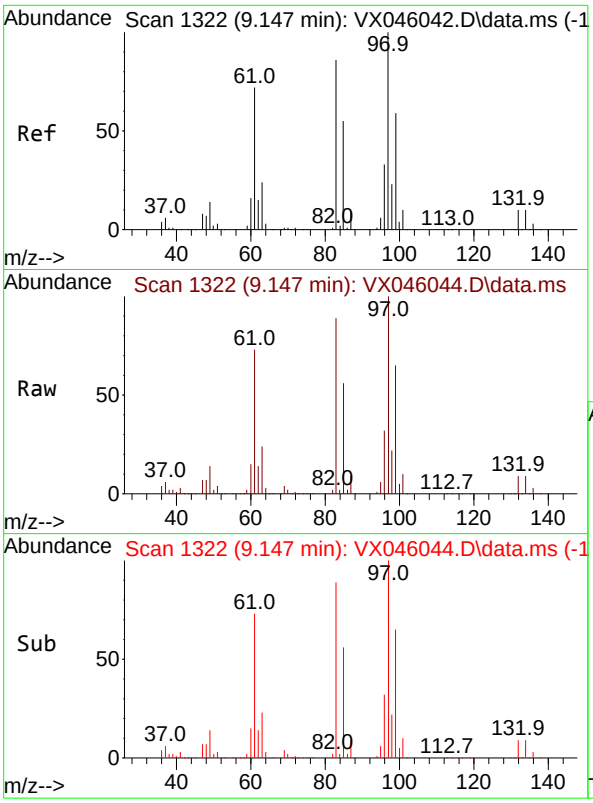


#54
cis-1,3-Dichloropropene
Concen: 124.658 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 75 Resp: 271054

Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.4	38.0
39	60.0	52.2	78.4



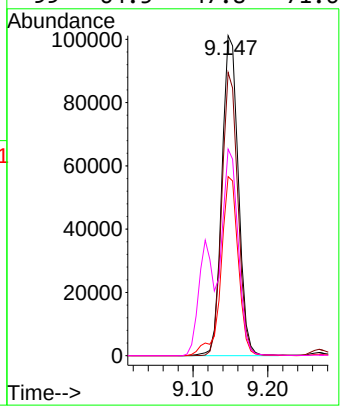


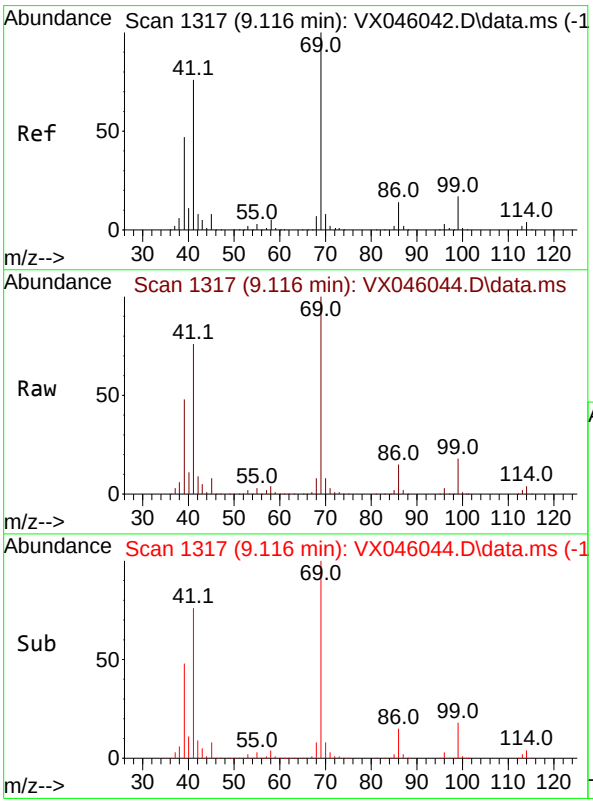
#55
1,1,2-Trichloroethane
Concen: 110.551 ug/l
RT: 9.147 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 97 Resp: 154932

Ion	Ratio	Lower	Upper
97	100		
83	88.5	69.0	103.6
85	56.0	44.3	66.5
99	64.5	47.8	71.6

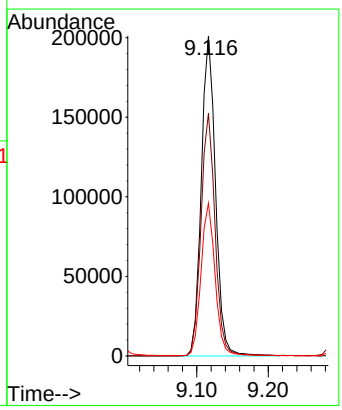


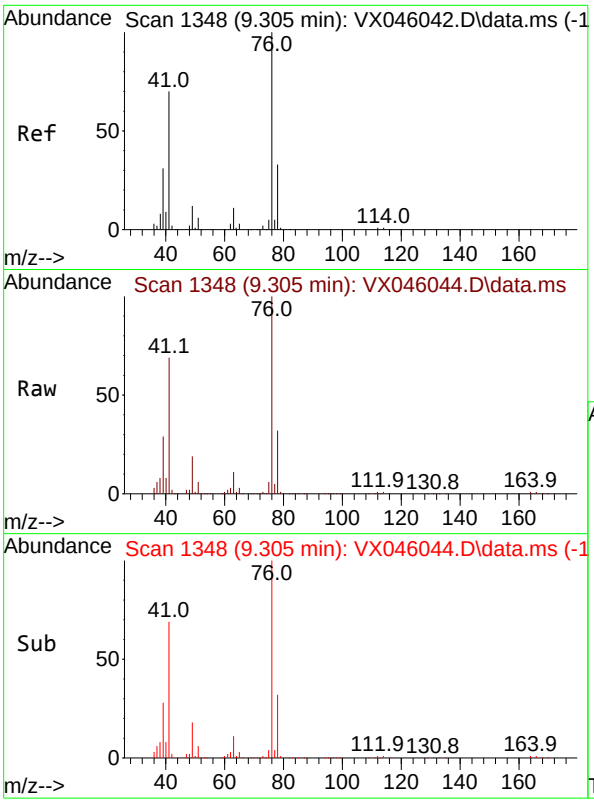


#56
Ethyl methacrylate
Concen: 127.968 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 69 Resp: 277921

Ion	Ratio	Lower	Upper
69	100		
41	75.4	60.8	91.2
39	47.2	39.0	58.6



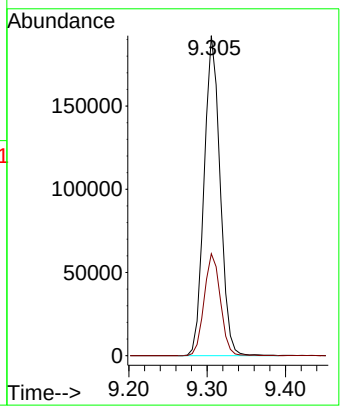


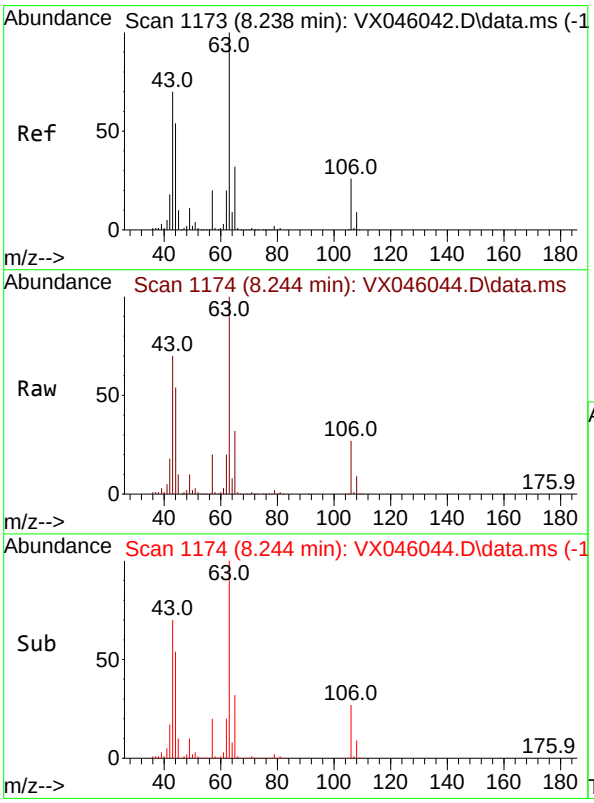
#57
1,3-Dichloropropane
Concen: 109.813 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 76 Resp: 272814

Ion	Ratio	Lower	Upper
76	100		
78	32.3	26.3	39.5

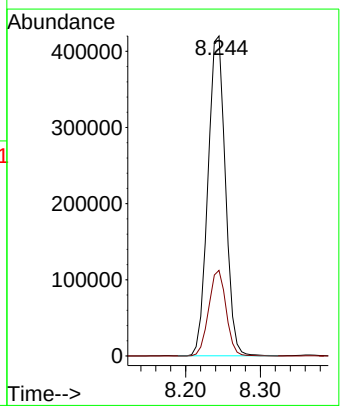


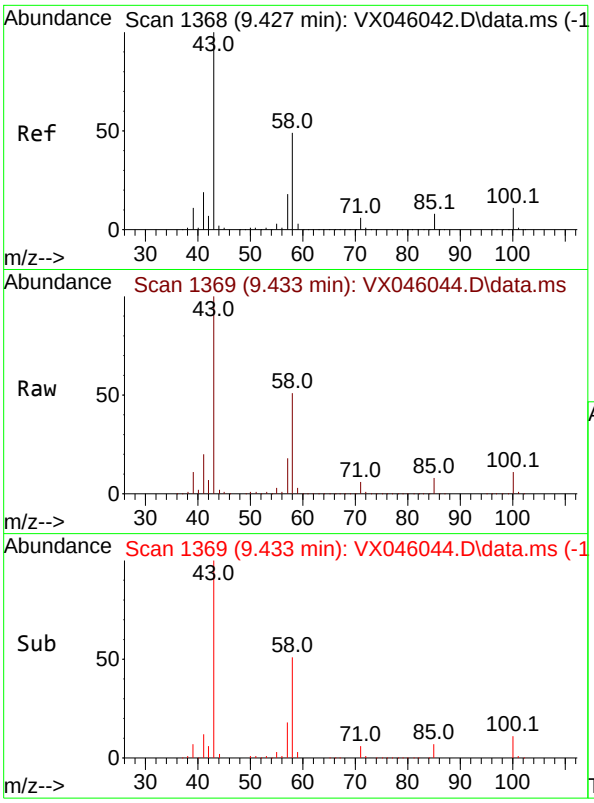


#58
2-Chloroethyl Vinyl ether
Concen: 697.344 ug/l
RT: 8.244 min Scan# 1174
Delta R.T. 0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 63 Resp: 680608

Ion	Ratio	Lower	Upper
63	100		
106	26.7	21.5	32.3



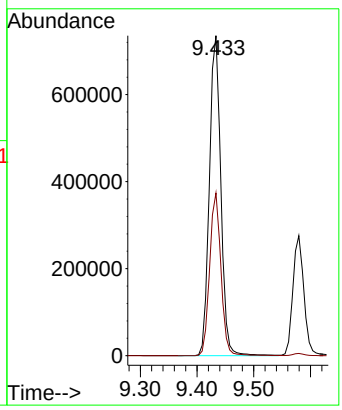


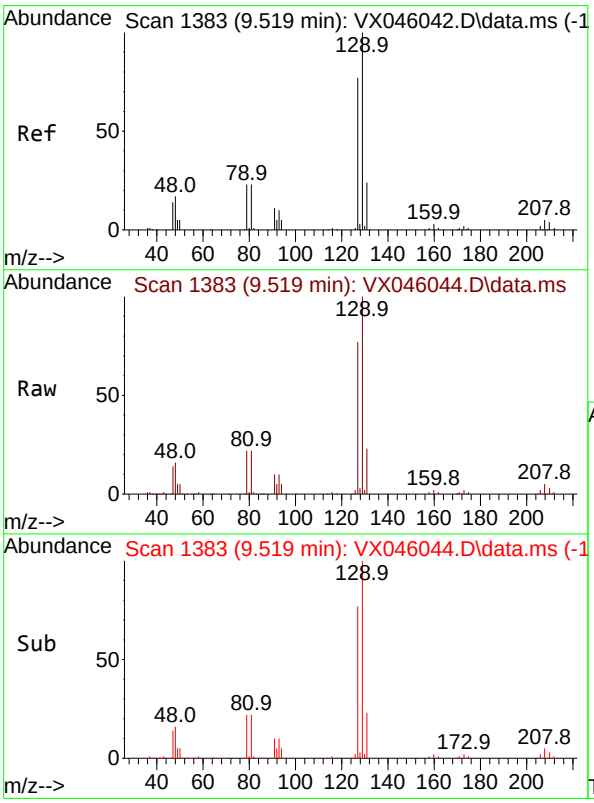
#59
2-Hexanone
Concen: 571.094 ug/l
RT: 9.433 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 1028597

Ion	Ratio	Lower	Upper
43	100		
58	50.2	24.9	74.6

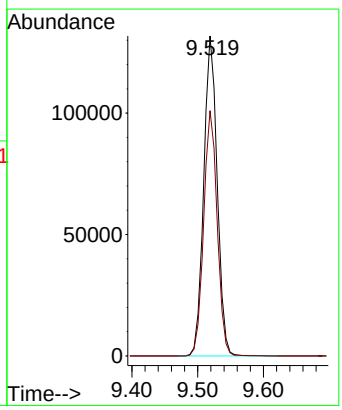


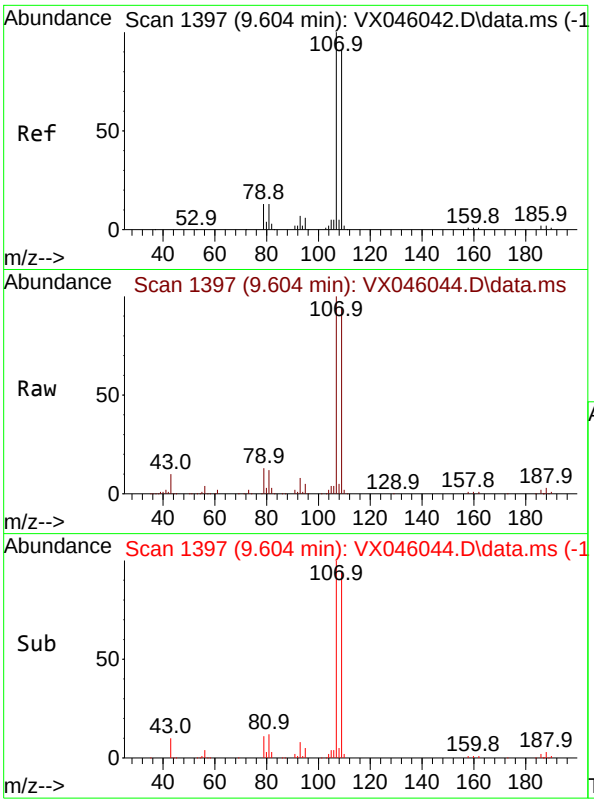


#60
Dibromochloromethane
Concen: 122.915 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion:129 Resp: 187497

Ion	Ratio	Lower	Upper
129	100		
127	77.1	39.3	117.8



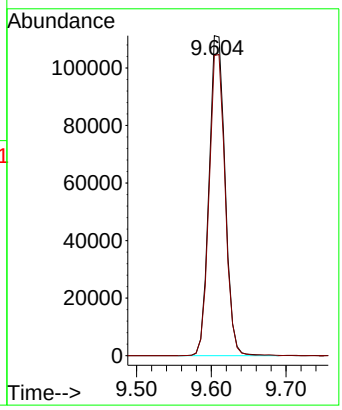


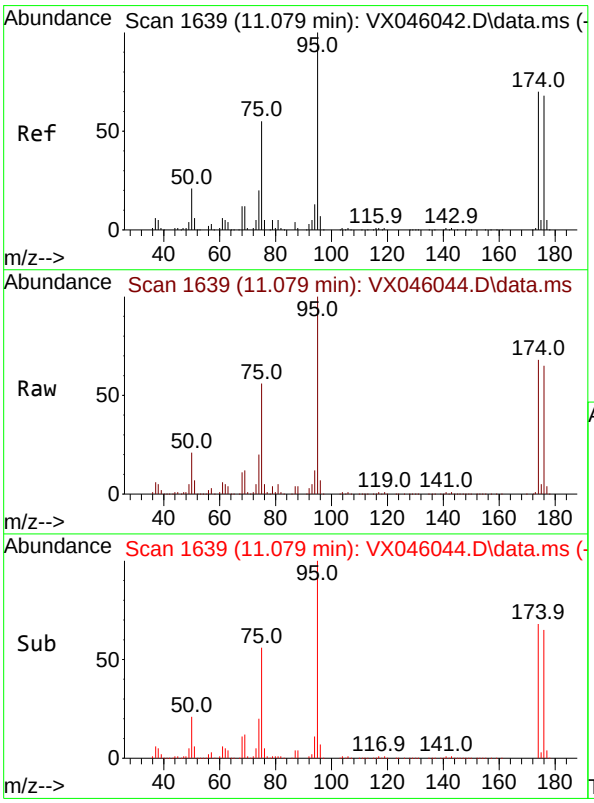
#61
1,2-Dibromoethane
Concen: 115.087 ug/l
RT: 9.604 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:107 Resp: 165634

Ion	Ratio	Lower	Upper
107	100		
109	94.6	73.3	109.9

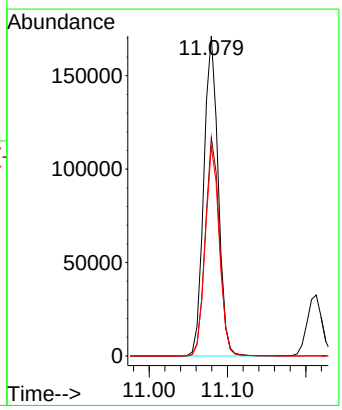


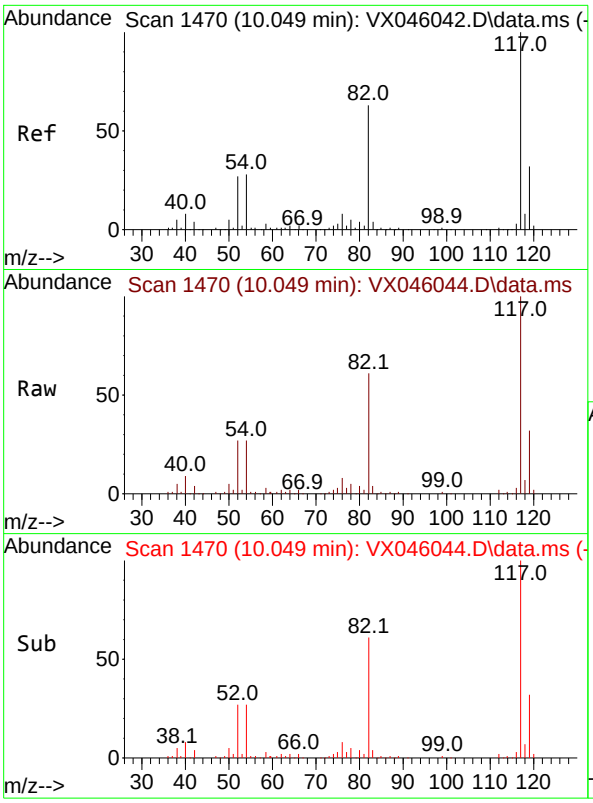


#62
4-Bromofluorobenzene
Concen: 109.174 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 95 Resp: 217536

Ion	Ratio	Lower	Upper
95	100		
174	67.5	0.0	135.8
176	64.4	0.0	131.4



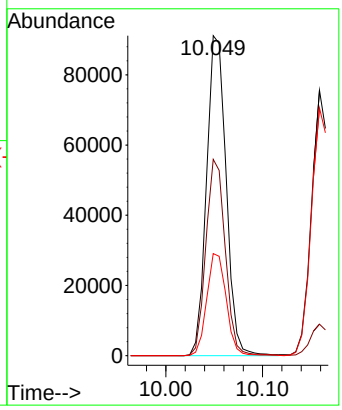


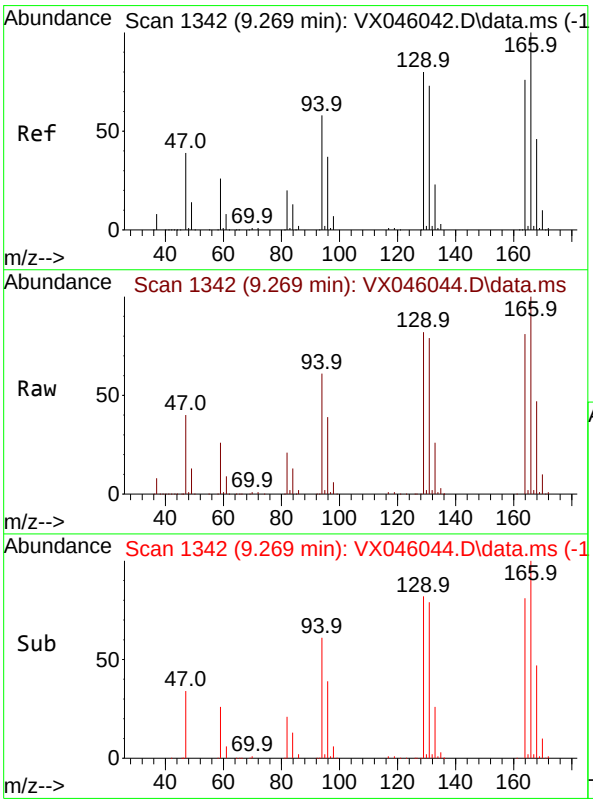
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:117 Resp: 128557

Ion	Ratio	Lower	Upper
117	100		
82	61.4	50.6	76.0
119	31.9	25.8	38.6

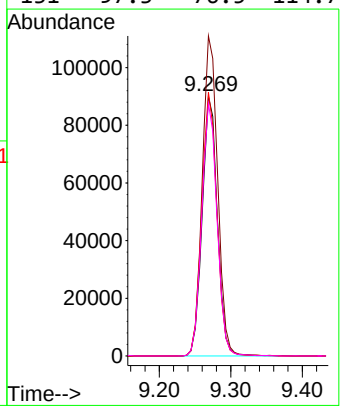


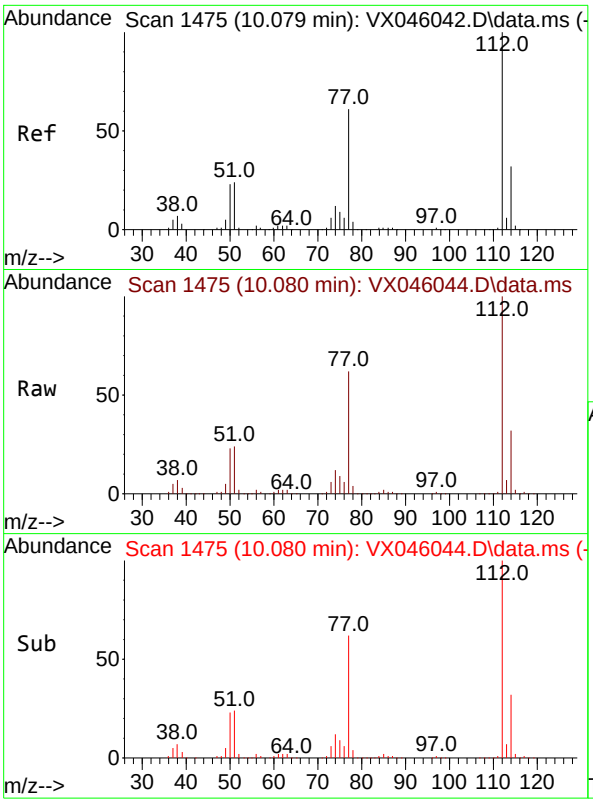


#64
Tetrachloroethene
Concen: 100.918 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion:164 Resp: 132488

Ion	Ratio	Lower	Upper
164	100		
166	123.3	105.0	157.6
129	101.6	83.5	125.3
131	97.3	76.5	114.7



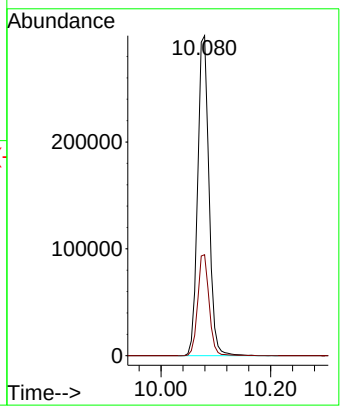


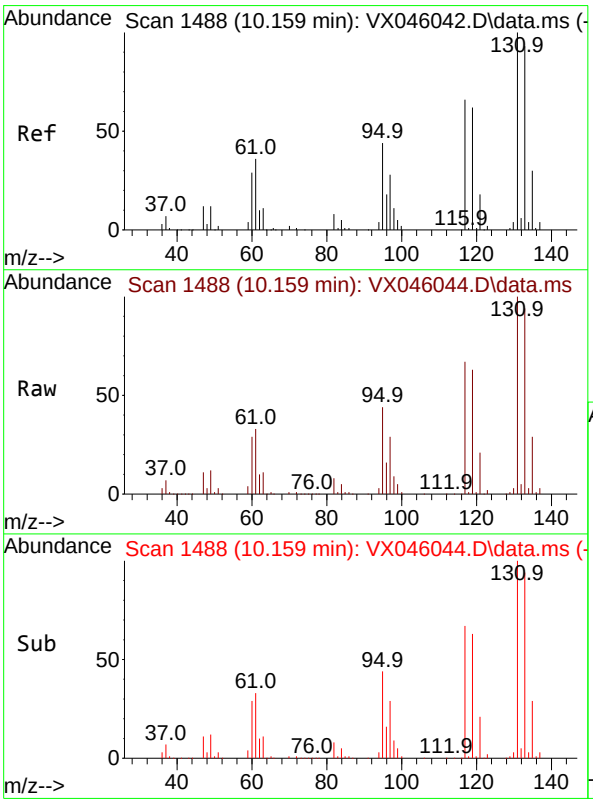
#65
Chlorobenzene
Concen: 108.615 ug/l
RT: 10.080 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:112 Resp: 429656

Ion	Ratio	Lower	Upper
112	100		
114	31.5	25.4	38.2

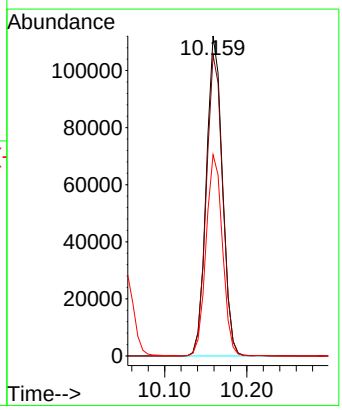


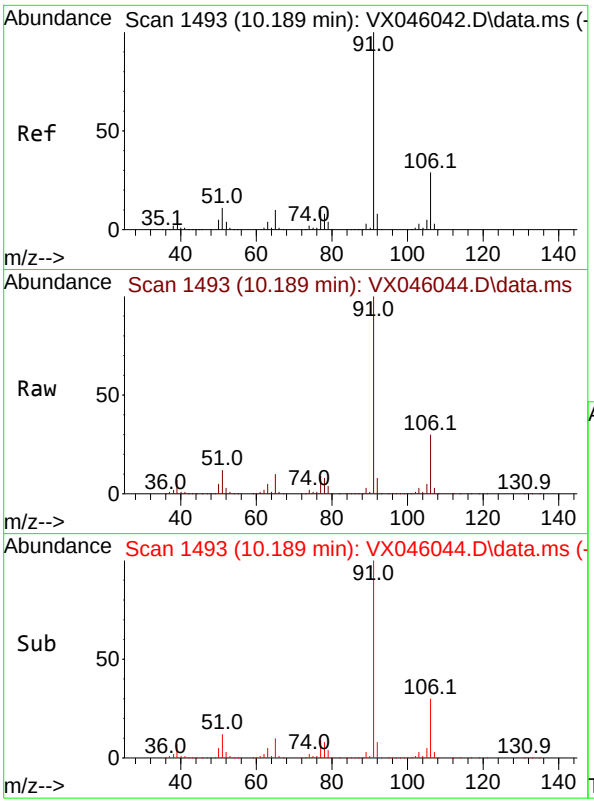


#66
1,1,1,2-Tetrachloroethane
Concen: 115.333 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion:131 Resp: 152173

Ion	Ratio	Lower	Upper
131	100		
133	95.7	47.3	141.9
119	64.0	31.6	95.0



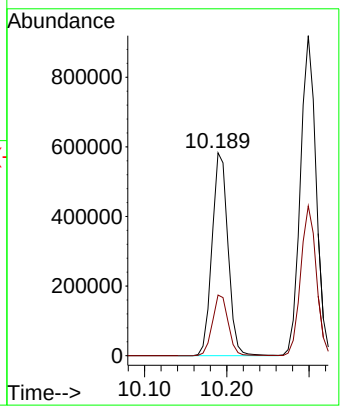


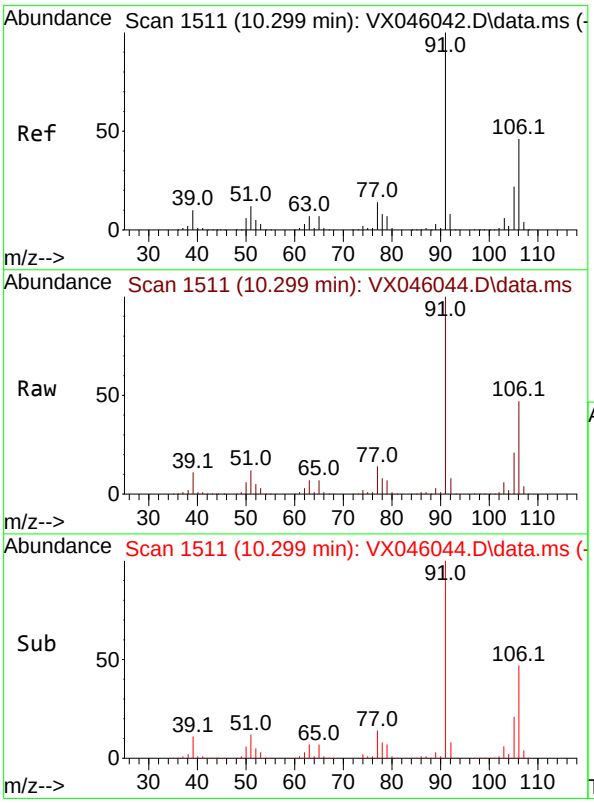
#67
Ethyl Benzene
Concen: 116.421 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 91 Resp: 785121

Ion	Ratio	Lower	Upper
91	100		
106	29.9	23.4	35.2

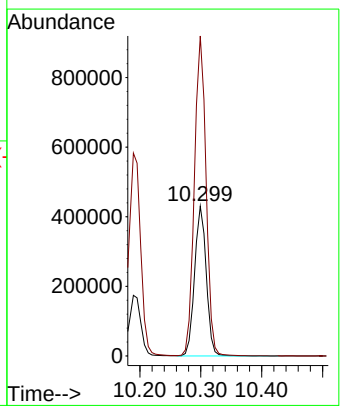


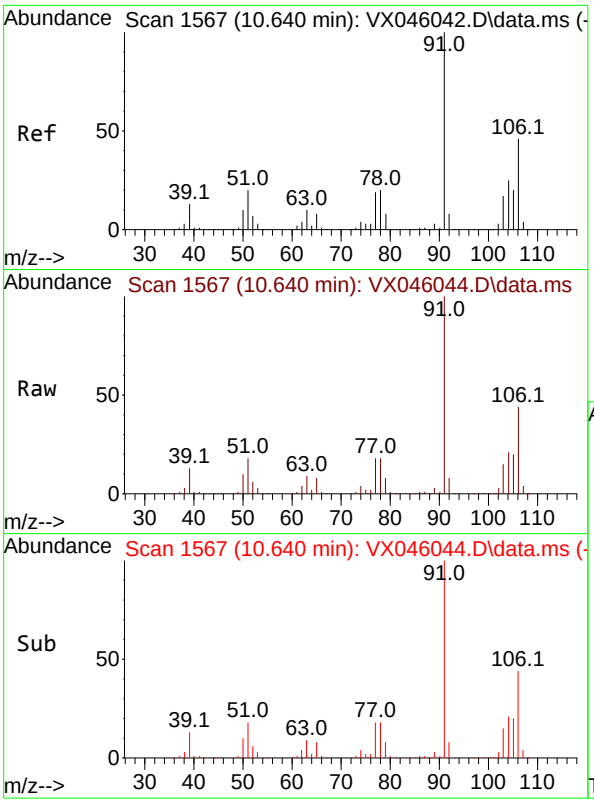


#68
m/p-Xylenes
Concen: 234.349 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion:106 Resp: 570913

Ion	Ratio	Lower	Upper
106	100		
91	214.2	171.2	256.8



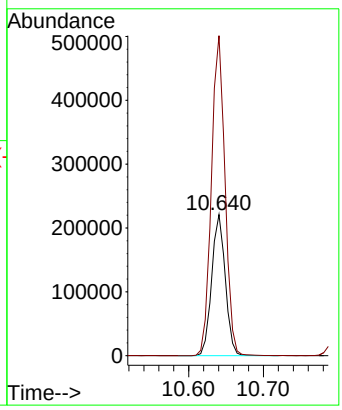


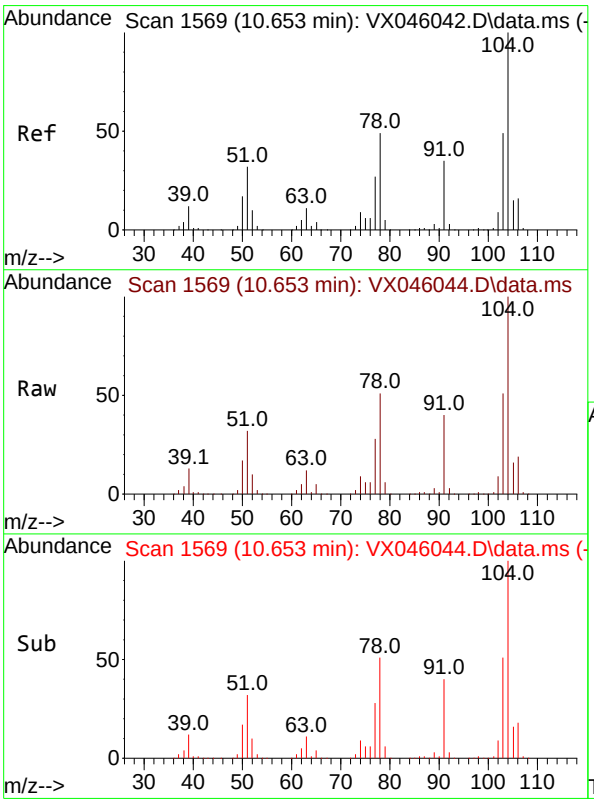
#69
o-Xylene
Concen: 113.990 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:106 Resp: 279906

Ion	Ratio	Lower	Upper
106	100		
91	226.9	112.7	338.1

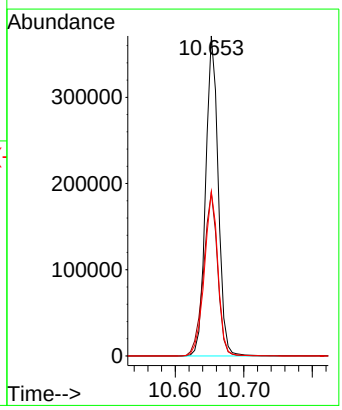


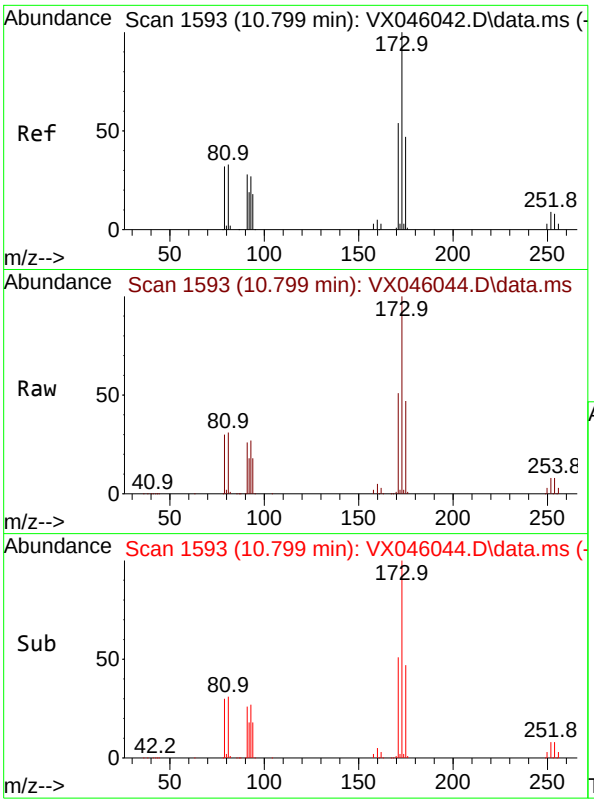


#70
Styrene
Concen: 120.694 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion:104 Resp: 474254

Ion	Ratio	Lower	Upper
104	100		
78	57.2	45.7	68.5
103	55.5	43.7	65.5



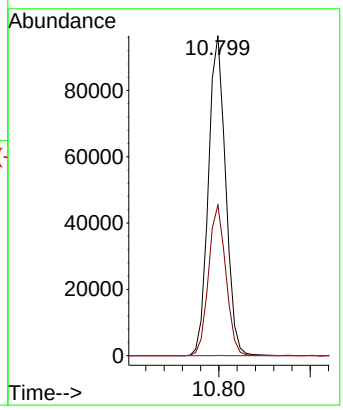


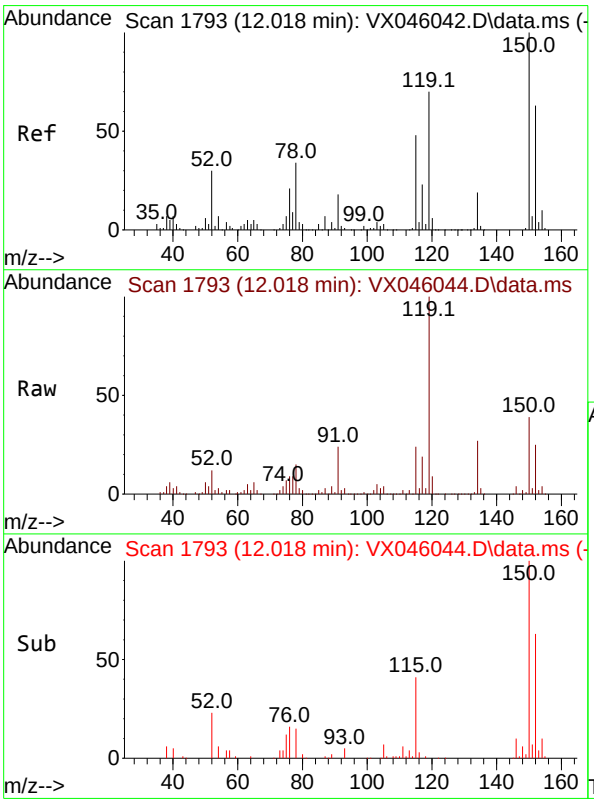
#71
Bromoform
Concen: 127.128 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:173 Resp: 125986

Ion	Ratio	Lower	Upper
173	100		
175	47.3	23.4	70.0
254	0.1	0.0	0.0#

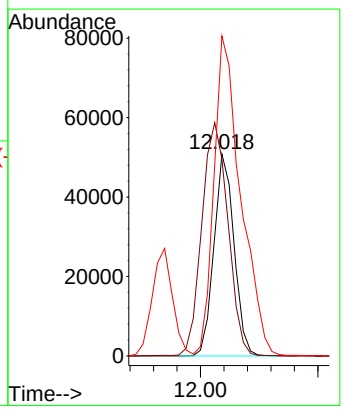


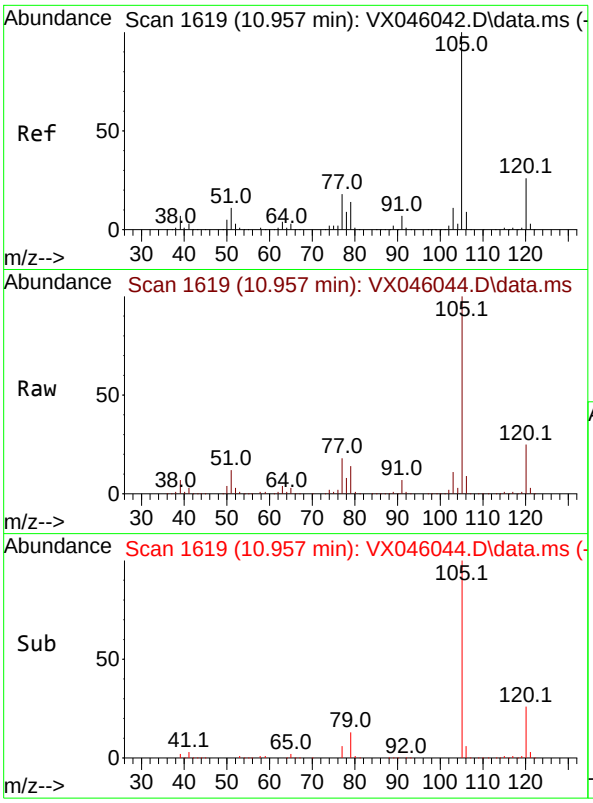


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion:152 Resp: 60345

Ion	Ratio	Lower	Upper
152	100		
115	150.7	46.9	140.7#
150	211.6	0.0	351.0



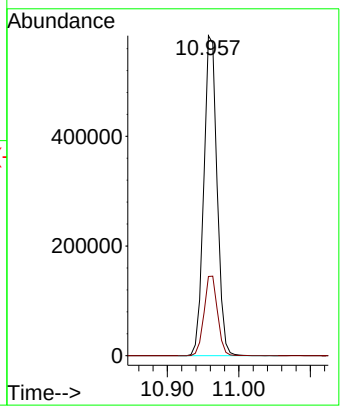


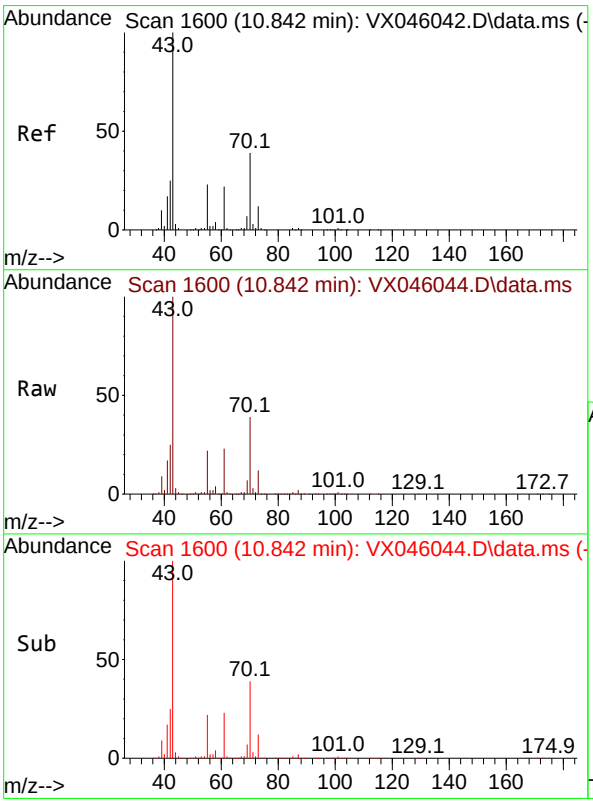
#73
Isopropylbenzene
Concen: 114.312 ug/l
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:105 Resp: 752337

Ion	Ratio	Lower	Upper
105	100		
120	25.3	12.8	38.4

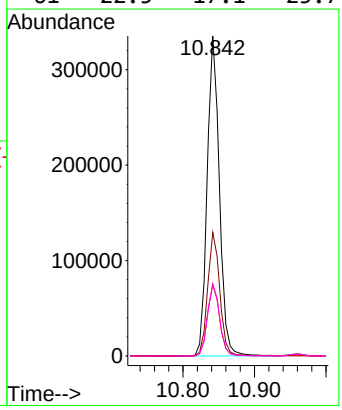


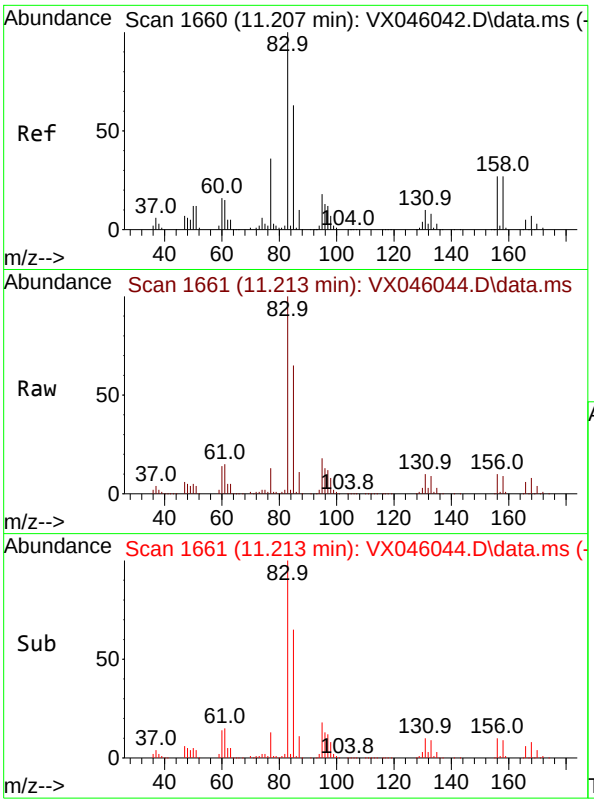


#74
N-amyl acetate
Concen: 120.944 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 43 Resp: 396877

Ion	Ratio	Lower	Upper
43	100		
70	38.5	30.9	46.3
55	22.5	18.7	28.1
61	22.5	17.1	25.7



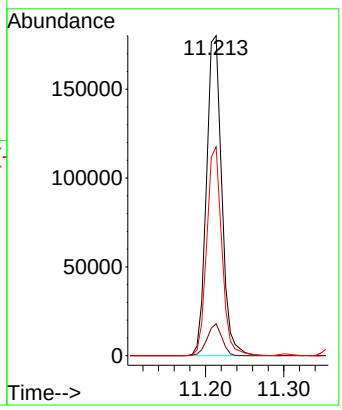


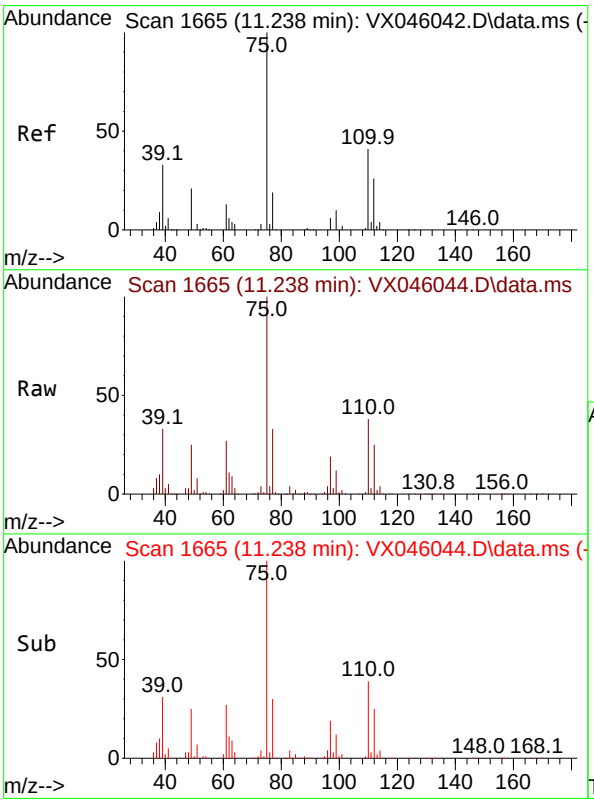
#75
1,1,2,2-Tetrachloroethane
Concen: 104.018 ug/l
RT: 11.213 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 83 Resp: 243532

Ion	Ratio	Lower	Upper
83	100		
131	9.7	5.0	14.9
85	64.4	31.9	95.7

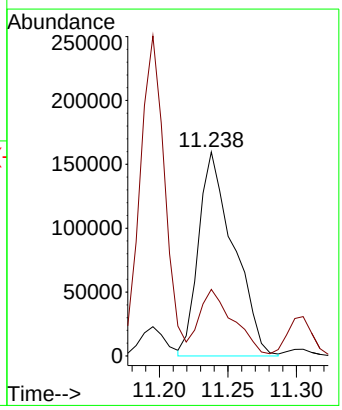


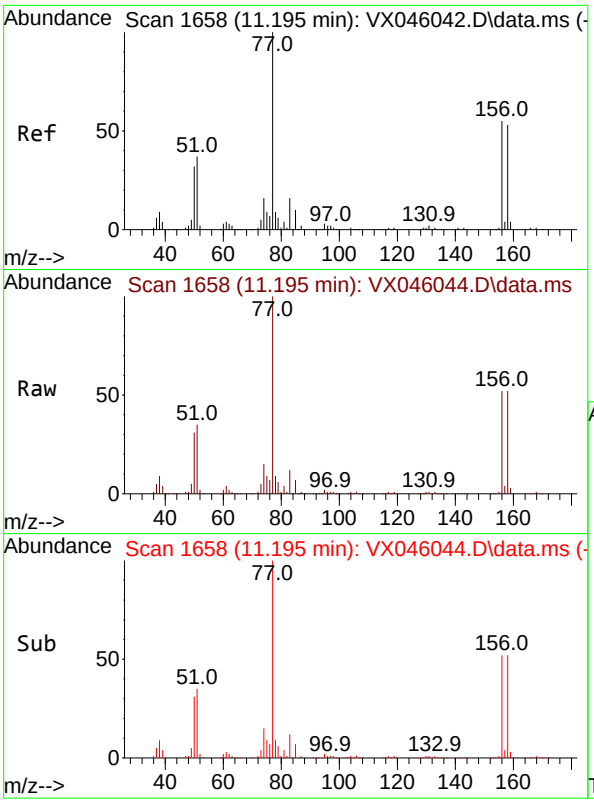


#76
1,2,3-Trichloropropane
Concen: 113.113 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 75 Resp: 284571

Ion	Ratio	Lower	Upper
75	100		
77	31.8	20.5	61.5



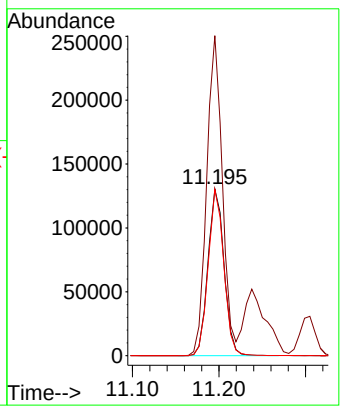


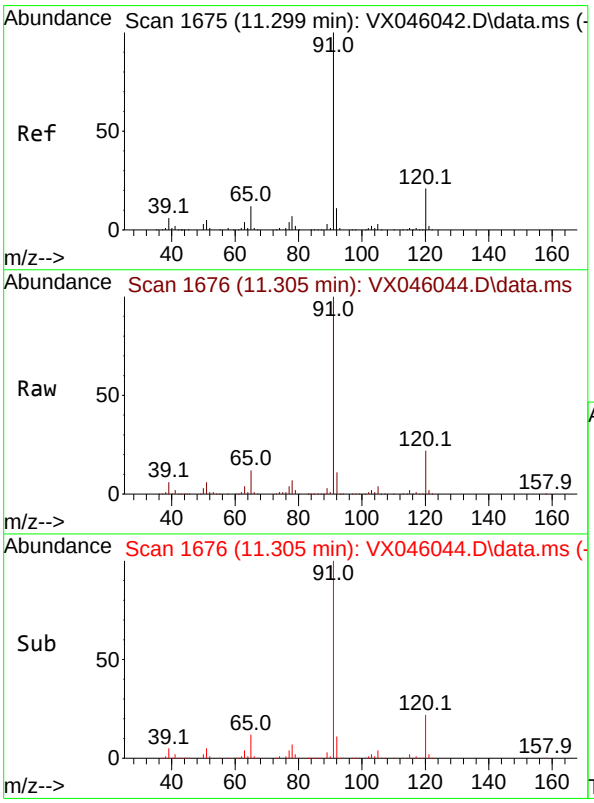
#77
Bromobenzene
Concen: 110.297 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:156 Resp: 167934

Ion	Ratio	Lower	Upper
156	100		
77	187.1	92.8	278.3
158	97.3	48.8	146.3

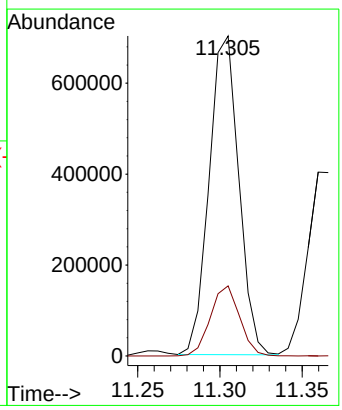


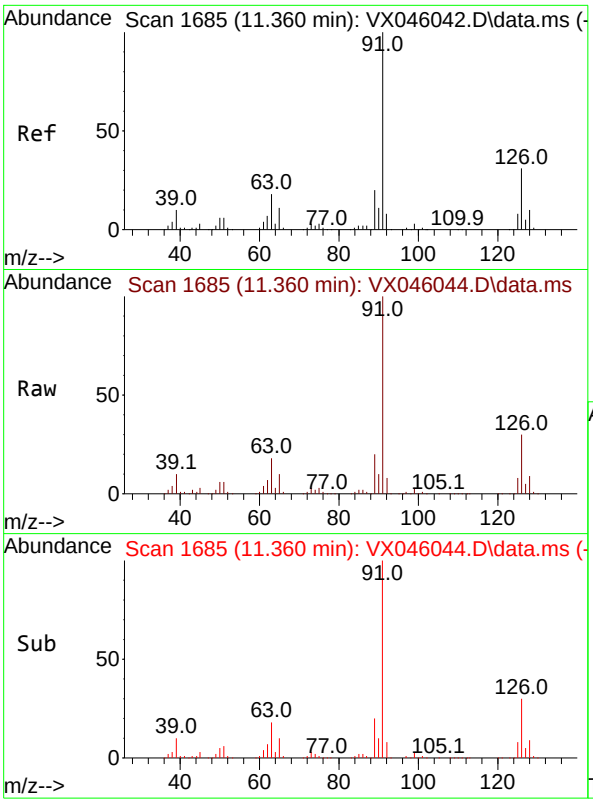


#78
n-propylbenzene
Concen: 119.448 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 91 Resp: 881218

Ion	Ratio	Lower	Upper
91	100		
120	21.7	10.8	32.4



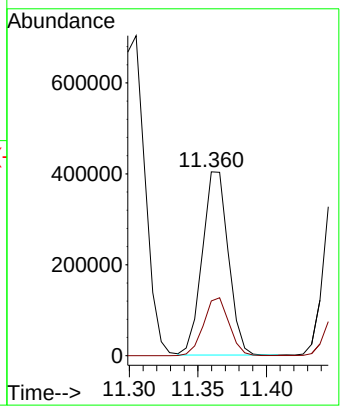


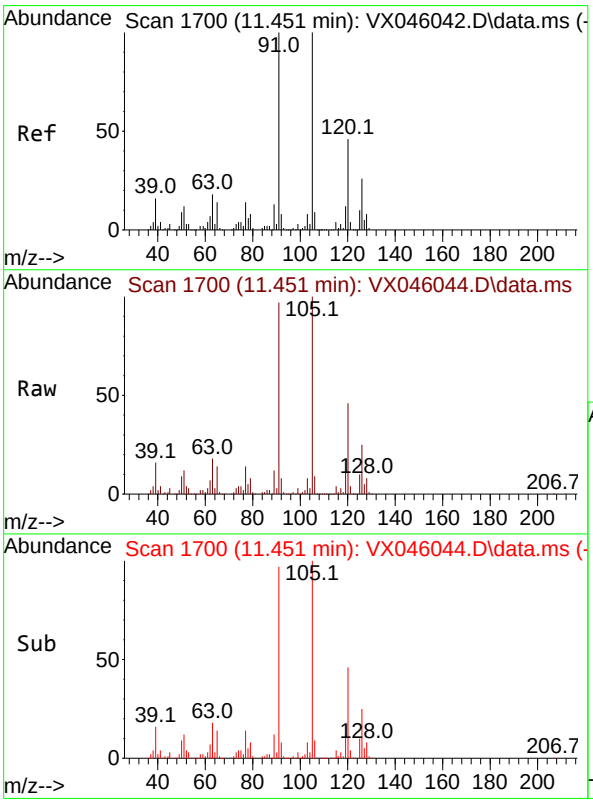
#79
2-Chlorotoluene
Concen: 107.514 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 91 Resp: 534560

Ion	Ratio	Lower	Upper
91	100		
126	31.0	15.6	46.7

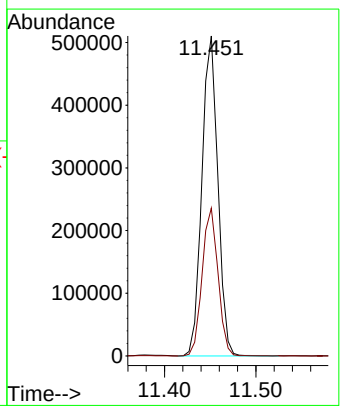


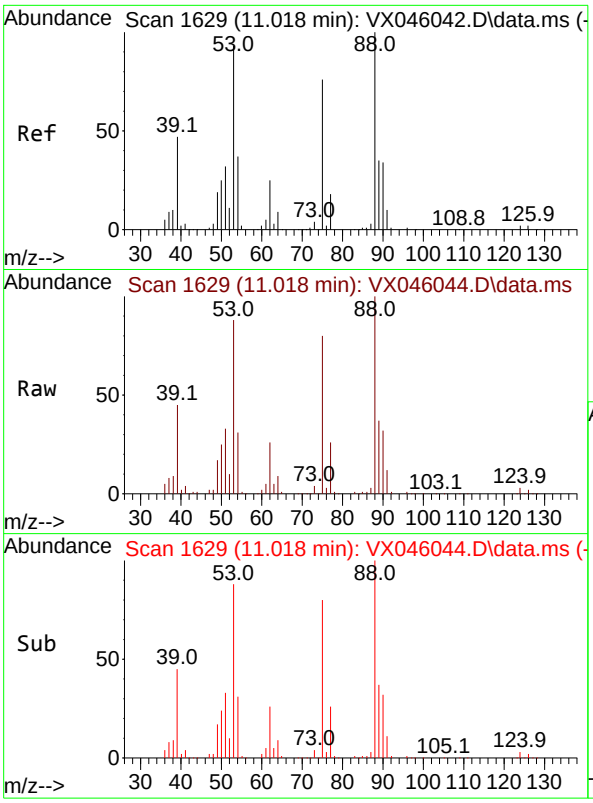


#80
1,3,5-Trimethylbenzene
Concen: 112.825 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion:105 Resp: 616477

Ion	Ratio	Lower	Upper
105	100		
120	46.0	23.1	69.2



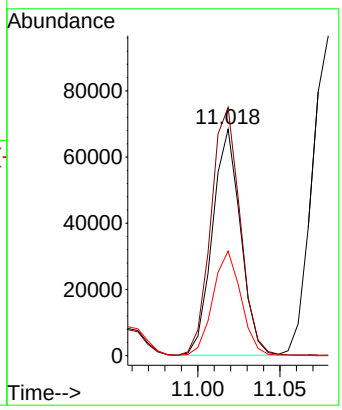


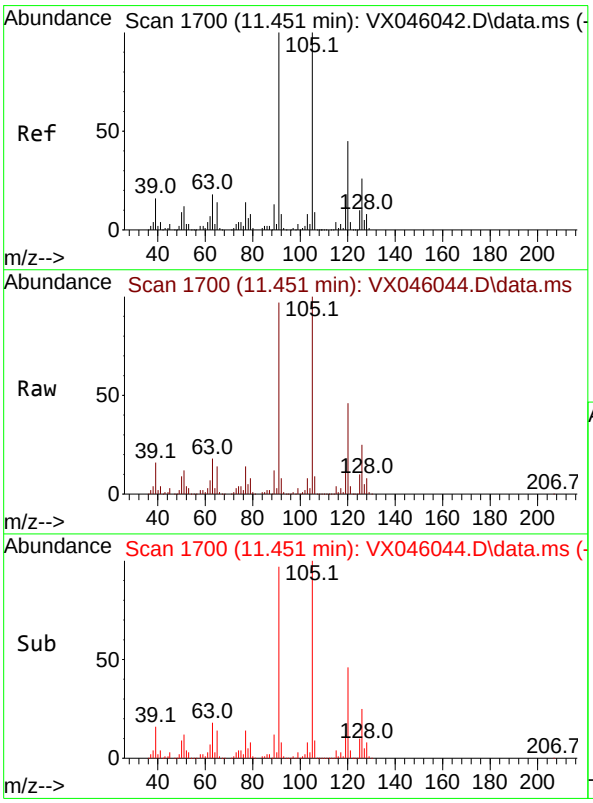
#81
trans-1,4-Dichloro-2-butene
Concen: 134.609 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 75 Resp: 81372

Ion	Ratio	Lower	Upper
75	100		
53	114.9	100.5	150.7
89	46.5	37.0	55.6

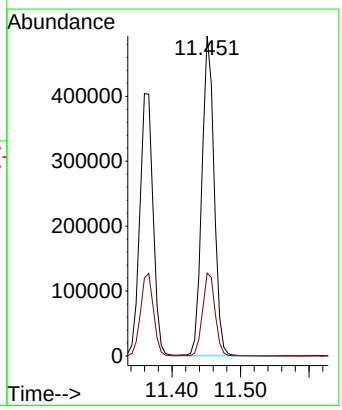


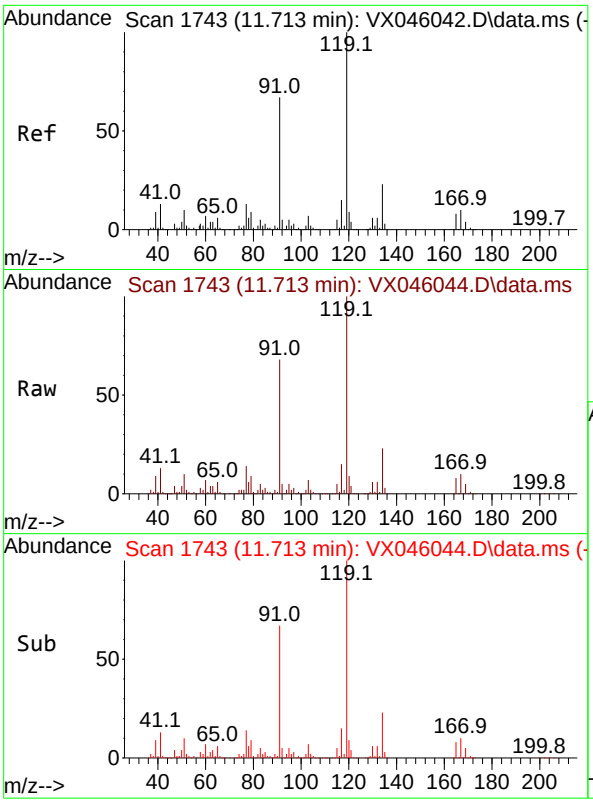


#82
4-Chlorotoluene
Concen: 111.948 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 91 Resp: 611736

Ion	Ratio	Lower	Upper
91	100		
126	26.7	13.3	39.8



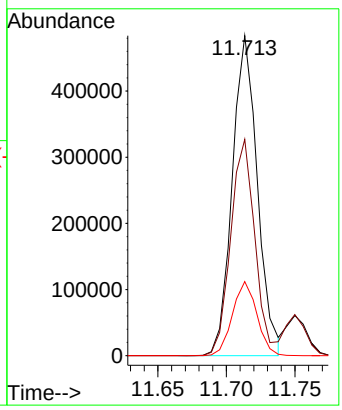


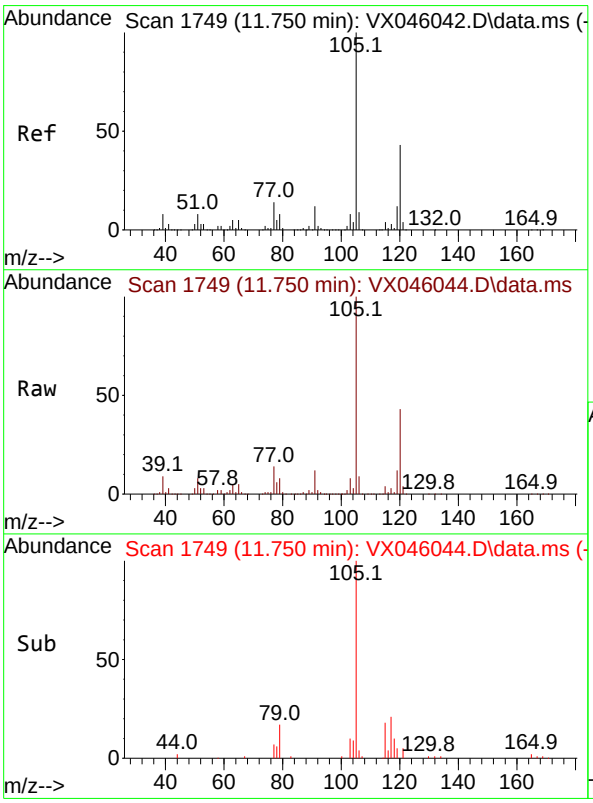
#83
tert-Butylbenzene
Concen: 115.065 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:119 Resp: 617473

Ion	Ratio	Lower	Upper
119	100		
91	65.6	32.9	98.7
134	22.6	11.4	34.1

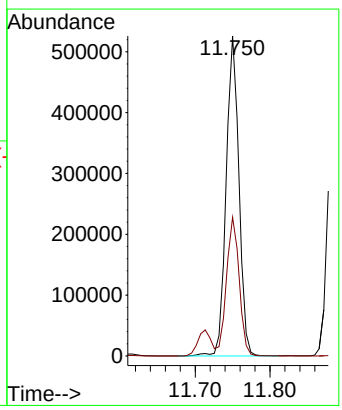


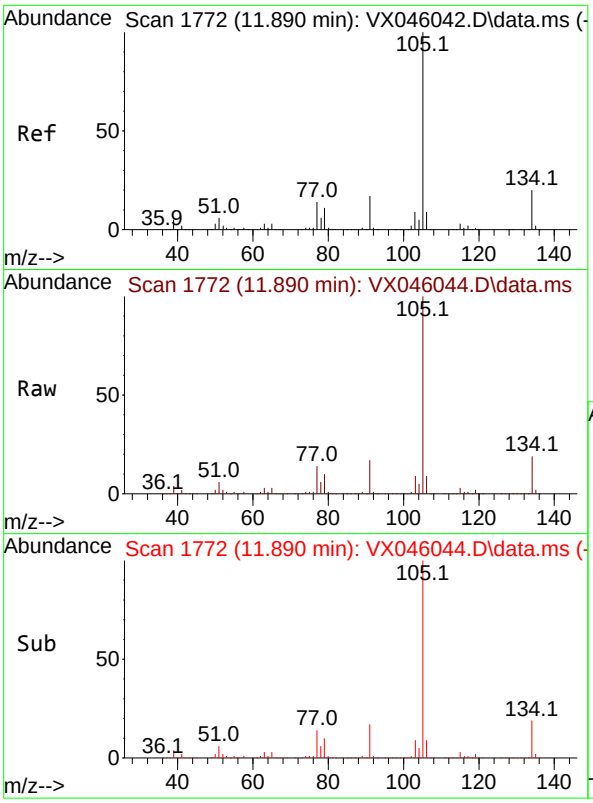


#84
1,2,4-Trimethylbenzene
Concen: 114.236 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion:105 Resp: 623456

Ion	Ratio	Lower	Upper
105	100		
120	43.1	21.2	63.6



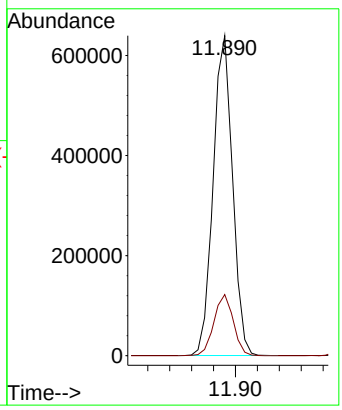


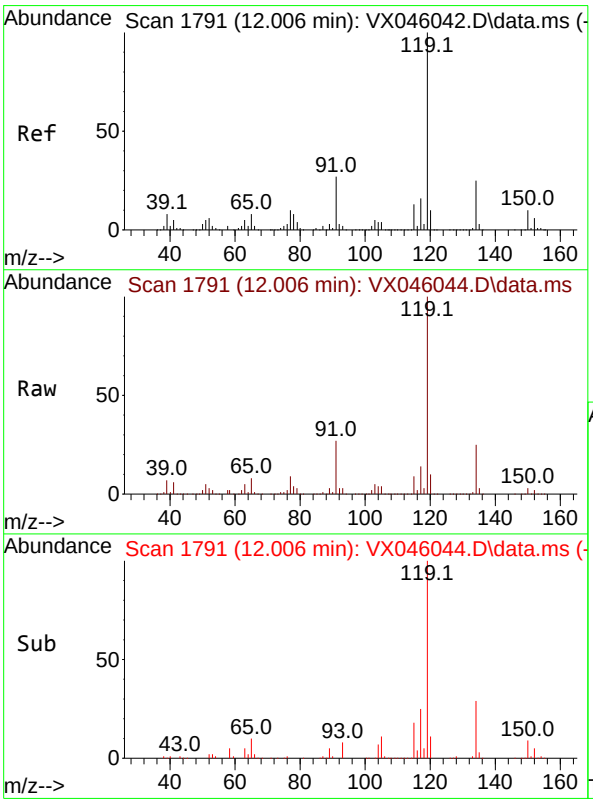
#85
sec-Butylbenzene
Concen: 118.023 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:105 Resp: 786293

Ion	Ratio	Lower	Upper
105	100		
134	19.1	9.7	29.1

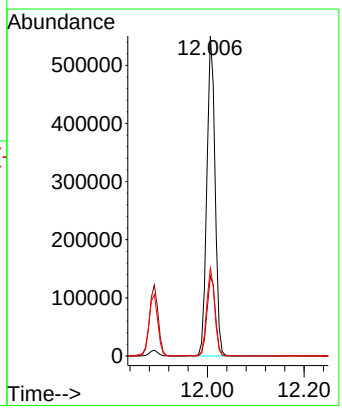


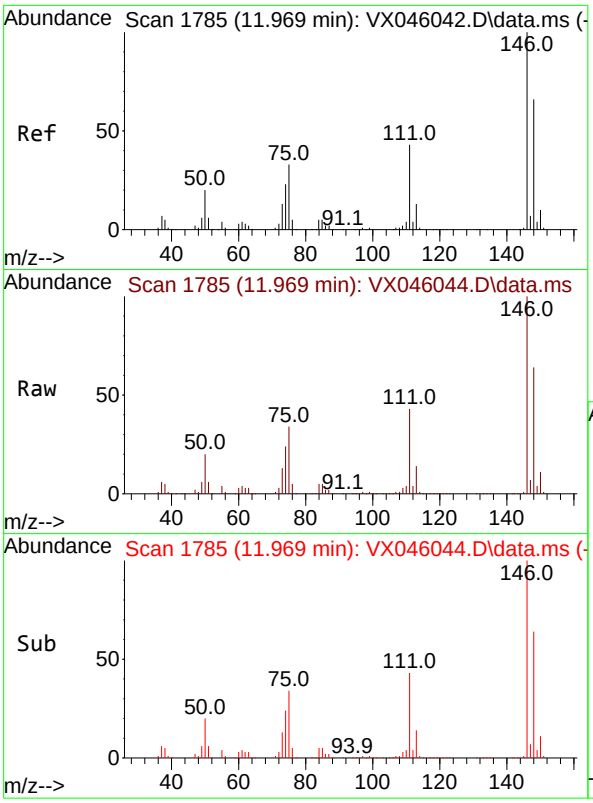


#86
p-Isopropyltoluene
Concen: 121.113 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion:119 Resp: 651531

Ion	Ratio	Lower	Upper
119	100		
134	25.4	12.5	37.5
91	27.0	13.8	41.4



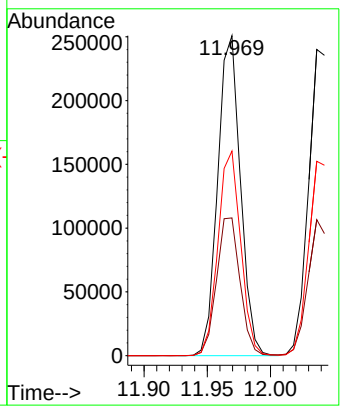


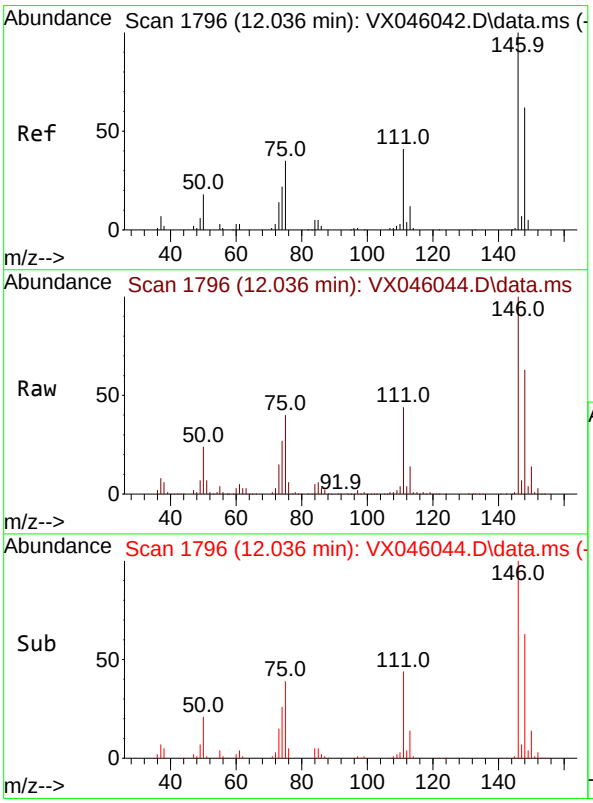
#87
1,3-Dichlorobenzene
Concen: 110.394 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:146 Resp: 313100

Ion	Ratio	Lower	Upper
146	100		
111	44.5	22.1	66.3
148	64.0	32.1	96.5

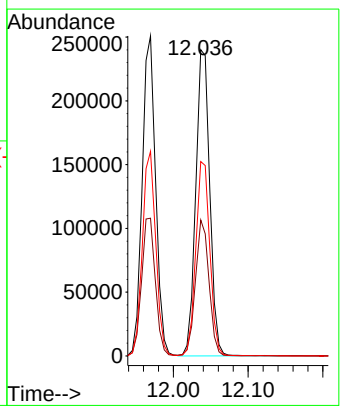


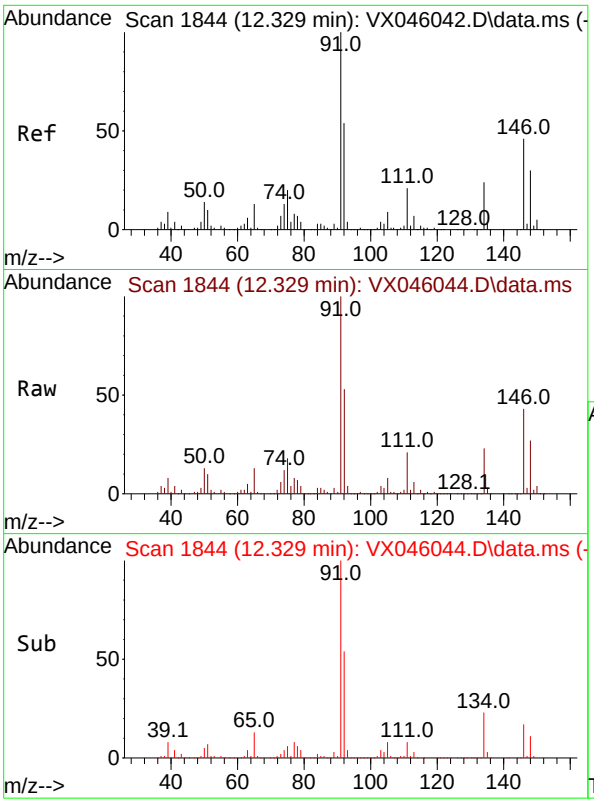


#88
1,4-Dichlorobenzene
Concen: 112.167 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion:146 Resp: 311752

Ion	Ratio	Lower	Upper
146	100		
111	43.0	21.3	63.9
148	63.9	31.9	95.5



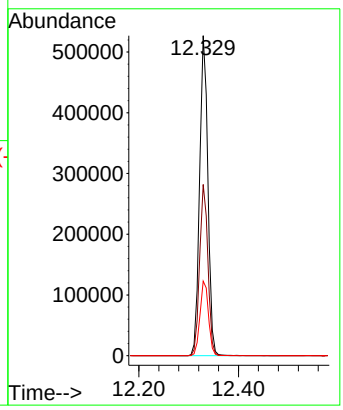


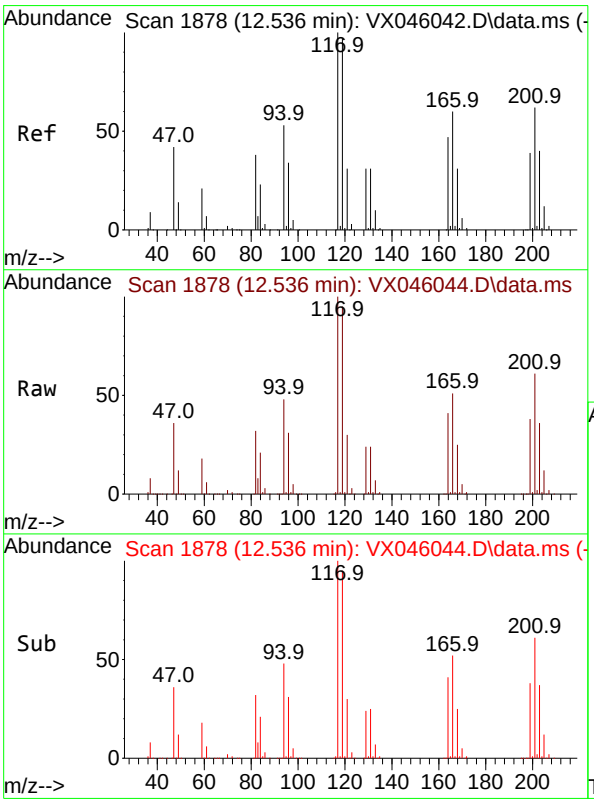
#89
n-Butylbenzene
Concen: 129.533 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 91 Resp: 605783

Ion	Ratio	Lower	Upper
91	100		
92	53.6	26.9	80.7
134	24.0	11.8	35.3

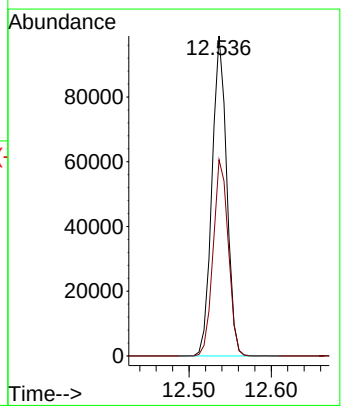


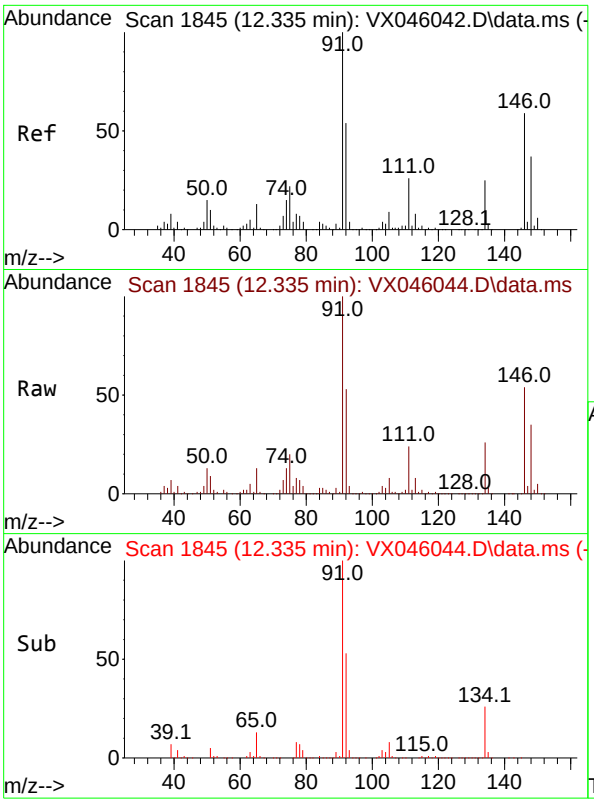


#90
Hexachloroethane
Concen: 123.091 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion:117 Resp: 123188

Ion	Ratio	Lower	Upper
117	100		
201	63.2	31.6	94.7



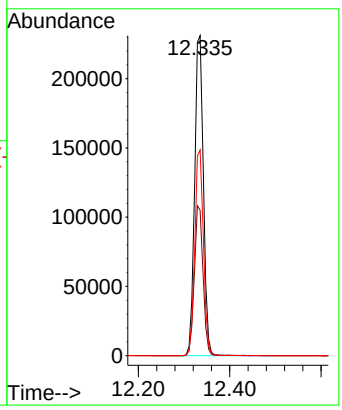


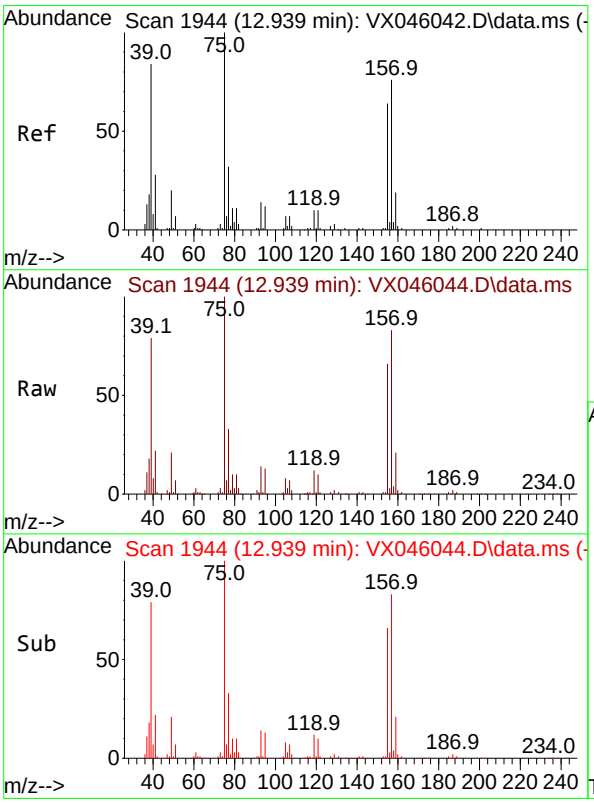
#91
1,2-Dichlorobenzene
Concen: 111.506 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:146 Resp: 308039

Ion	Ratio	Lower	Upper
146	100		
111	46.3	22.4	67.3
148	63.6	31.6	94.8

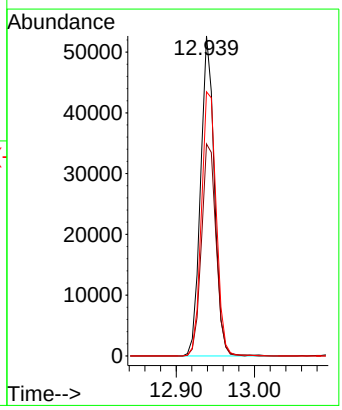


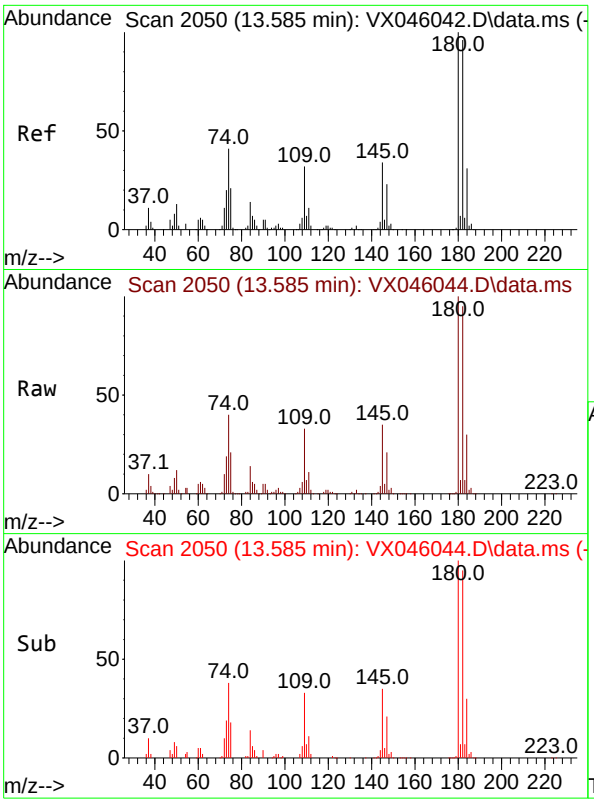


#92
1,2-Dibromo-3-Chloropropane
Concen: 120.915 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion: 75 Resp: 64438

Ion	Ratio	Lower	Upper
75	100		
155	69.6	34.9	104.8
157	88.4	43.8	131.4



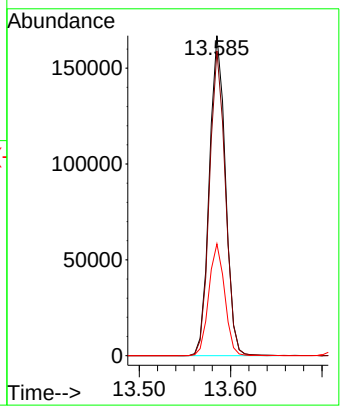


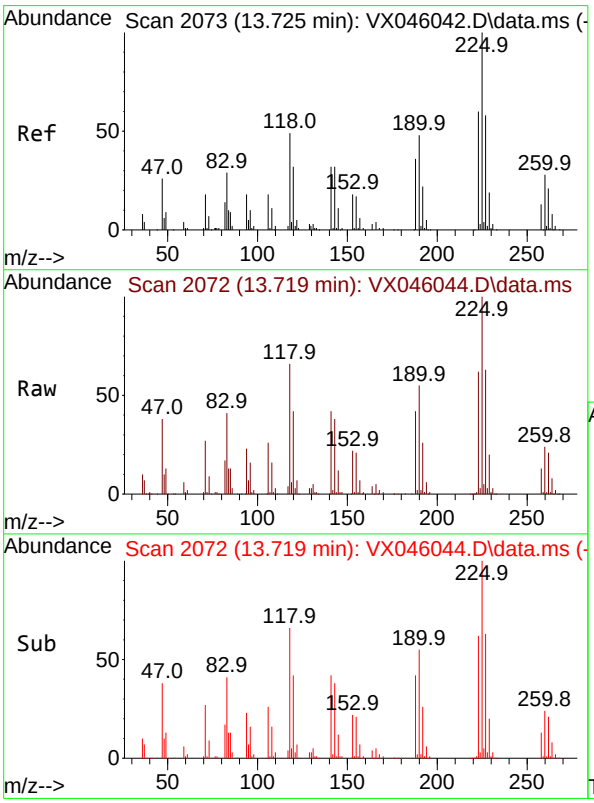
#93
1,2,4-Trichlorobenzene
Concen: 134.366 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:180 Resp: 203255

Ion	Ratio	Lower	Upper
180	100		
182	94.1	47.9	143.8
145	34.5	17.1	51.2

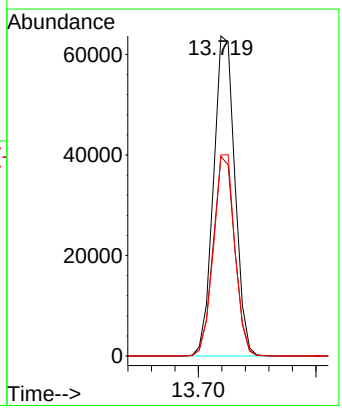


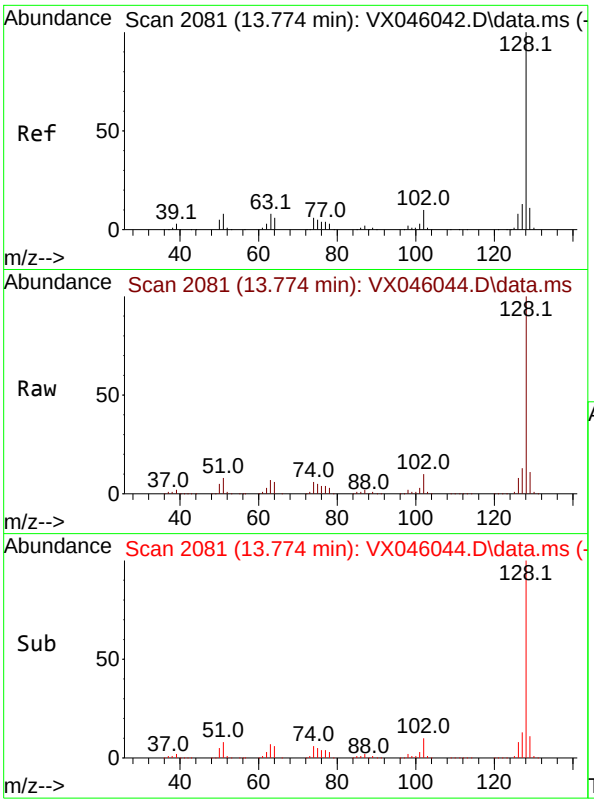


#94
Hexachlorobutadiene
Concen: 113.857 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. -0.006 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion:225 Resp: 80558

Ion	Ratio	Lower	Upper
225	100		
223	62.5	30.8	92.4
227	63.1	30.9	92.7



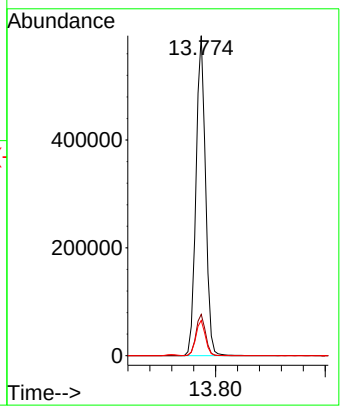


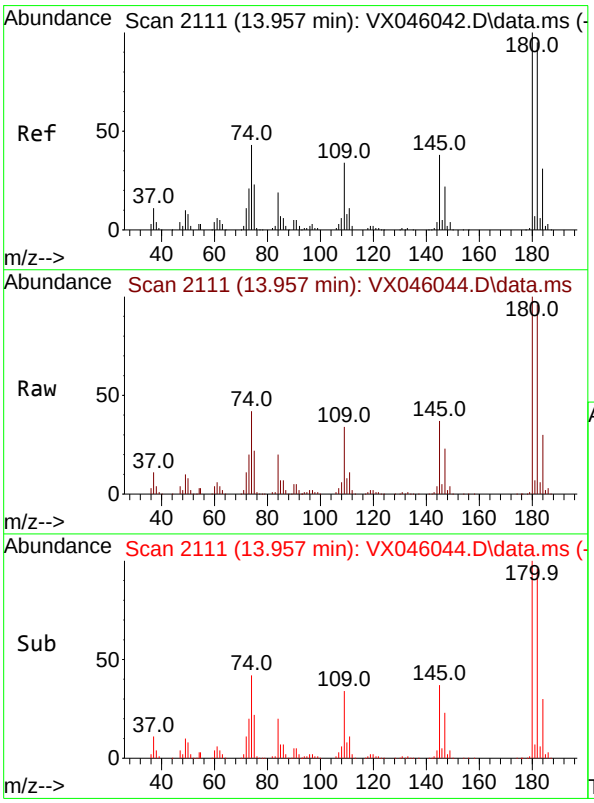
#95
Naphthalene
Concen: 130.929 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:128 Resp: 721236

Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.4	15.6
129	11.0	8.6	13.0

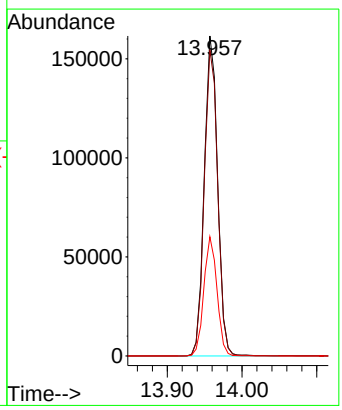




#96
1,2,3-Trichlorobenzene
Concen: 126.331 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX046044.D
Acq: 05 May 2025 12:45

Tgt Ion:180 Resp: 200379

Ion	Ratio	Lower	Upper
180	100		
182	96.5	47.8	143.3
145	36.7	18.1	54.3



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046046.D
Acq On : 05 May 2025 16:04
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Quant Time: May 06 06:12:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.538	168	96964	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	168484	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	147167	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	67939	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	9067	3.143	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	6.280%#		
35) Dibromofluoromethane	5.373	113	5969	3.161	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	6.320%#		
50) Toluene-d8	8.647	98	20566	3.232	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	6.460%#		
62) 4-Bromofluorobenzene	11.079	95	7822	3.378	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	6.760%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	6195	2.894	ug/l	95
3) Chloromethane	1.307	50	6587	3.125	ug/l	99
4) Vinyl Chloride	1.374	62	5999	3.249	ug/l	96
5) Bromomethane	1.593	94	2962	3.164	ug/l	88
6) Chloroethane	1.666	64	3567	3.750	ug/l	94
7) Trichlorofluoromethane	1.874	101	9599	3.413	ug/l	88
8) Diethyl Ether	2.130	74	3020	3.266	ug/l	95
9) 1,1,2-Trichlorotrifluo...	2.325	101	5911	3.517	ug/l	99
10) Methyl Iodide	2.441	142	5900	2.990	ug/l	99
11) Tert butyl alcohol	2.965	59	5539	16.111	ug/l	98
12) 1,1-Dichloroethene	2.306	96	5496	3.359	ug/l	97
13) Acrolein	2.233	56	5673	14.206	ug/l	95
14) Allyl chloride	2.654	41	10262	3.319	ug/l	98
15) Acrylonitrile	3.062	53	16746	16.282	ug/l	97
16) Acetone	2.380	43	19773	20.036	ug/l	98
17) Carbon Disulfide	2.501	76	11068	2.919	ug/l	96
18) Methyl Acetate	2.703	43	7909	3.357	ug/l	100
19) Methyl tert-butyl Ether	3.111	73	18497	3.241	ug/l	97
20) Methylene Chloride	2.782	84	6680	3.341	ug/l	97
21) trans-1,2-Dichloroethene	3.081	96	5402	3.234	ug/l	100
22) Diisopropyl ether	3.751	45	18657	3.230	ug/l #	65
23) Vinyl Acetate	3.715	43	82328	16.127	ug/l	99
24) 1,1-Dichloroethane	3.605	63	11193	3.297	ug/l	99
25) 2-Butanone	4.562	43	26125	18.340	ug/l	98
26) 2,2-Dichloropropane	4.465	77	8245	3.205	ug/l	96
27) cis-1,2-Dichloroethene	4.483	96	6222	3.089	ug/l	95
28) Bromochloromethane	4.891	49	5360	2.969	ug/l #	100
29) Tetrahydrofuran	5.001	42	15431	16.680	ug/l	98
30) Chloroform	5.080	83	11624	3.294	ug/l	89
31) Cyclohexane	5.458	56	10269	3.588	ug/l	96
32) 1,1,1-Trichloroethane	5.367	97	9827	3.229	ug/l	97
36) 1,1-Dichloropropene	5.678	75	7787	3.551	ug/l	98
37) Ethyl Acetate	4.721	43	9021	3.279	ug/l	98
38) Carbon Tetrachloride	5.659	117	8505	3.376	ug/l	97
39) Methylcyclohexane	7.373	83	9882	3.597	ug/l	93
40) Benzene	6.031	78	22528	3.315	ug/l	100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046046.D
Acq On : 05 May 2025 16:04
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Quant Time: May 06 06:12:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.916	41	4851	3.174	ug/l	#	65
42) 1,2-Dichloroethane	6.080	62	10011	3.563	ug/l		100
43) Isopropyl Acetate	6.348	43	13914	3.309	ug/l		96
44) Trichloroethene	7.123	130	5313	3.307	ug/l		94
45) 1,2-Dichloropropane	7.427	63	5451	3.228	ug/l	#	89
46) Dibromomethane	7.580	93	4417	3.318	ug/l		98
47) Bromodichloromethane	7.818	83	8394	3.254	ug/l		98
48) Methyl methacrylate	7.696	41	7171	3.321	ug/l		97
49) 1,4-Dioxane	7.659	88	2907	67.721	ug/l		96
51) 4-Methyl-2-Pentanone	8.567	43	46794	16.967	ug/l		98
52) Toluene	8.714	92	14126	3.505	ug/l		97
53) t-1,3-Dichloropropene	8.976	75	6834	3.155	ug/l		100
54) cis-1,3-Dichloropropene	8.366	75	7908	3.129	ug/l		91
55) 1,1,2-Trichloroethane	9.153	97	5685	3.490	ug/l		98
56) Ethyl methacrylate	9.116	69	8555	3.390	ug/l		98
57) 1,3-Dichloropropane	9.305	76	10127	3.508	ug/l		94
58) 2-Chloroethyl Vinyl ether	8.238	63	20809	18.346	ug/l		99
59) 2-Hexanone	9.427	43	34853	16.651	ug/l		97
60) Dibromochloromethane	9.518	129	5500	3.102	ug/l		98
61) 1,2-Dibromoethane	9.604	107	5614	3.356	ug/l		99
64) Tetrachloroethene	9.269	164	4752	3.162	ug/l		96
65) Chlorobenzene	10.079	112	15391	3.399	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.159	131	5024	3.326	ug/l		99
67) Ethyl Benzene	10.195	91	26732	3.463	ug/l		99
68) m/p-Xylenes	10.299	106	19957	7.156	ug/l		98
69) o-Xylene	10.640	106	9398	3.343	ug/l		95
70) Styrene	10.652	104	14900	3.312	ug/l		99
71) Bromoform	10.799	173	3470	3.059	ug/l	#	99
73) Isopropylbenzene	10.957	105	24201	3.266	ug/l		98
74) N-amyl acetate	10.841	43	11224	3.038	ug/l		96
75) 1,1,2,2-Tetrachloroethane	11.207	83	9170	3.479	ug/l		97
76) 1,2,3-Trichloropropane	11.238	75	8548	3.018	ug/l		95
77) Bromobenzene	11.195	156	5857	3.417	ug/l		96
78) n-propylbenzene	11.299	91	28436	3.424	ug/l		100
79) 2-Chlorotoluene	11.360	91	18672	3.336	ug/l		97
80) 1,3,5-Trimethylbenzene	11.451	105	20742	3.372	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	1828	2.686	ug/l		99
82) 4-Chlorotoluene	11.451	91	19966	3.245	ug/l		98
83) tert-Butylbenzene	11.713	119	21049	3.484	ug/l		98
84) 1,2,4-Trimethylbenzene	11.750	105	20613	3.355	ug/l		97
85) sec-Butylbenzene	11.890	105	25590	3.412	ug/l		99
86) p-Isopropyltoluene	12.006	119	20955	3.460	ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	10585	3.315	ug/l		97
88) 1,4-Dichlorobenzene	12.036	146	10908	3.486	ug/l		90
89) n-Butylbenzene	12.329	91	18004	3.419	ug/l		94
90) Hexachloroethane	12.536	117	3553	3.153	ug/l		94
91) 1,2-Dichlorobenzene	12.335	146	10712	3.444	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.945	75	1687	2.812	ug/l		99
93) 1,2,4-Trichlorobenzene	13.585	180	5720	3.359	ug/l		96
94) Hexachlorobutadiene	13.719	225	2816	3.535	ug/l		96
95) Naphthalene	13.774	128	19902	3.209	ug/l		99
96) 1,2,3-Trichlorobenzene	13.957	180	5745	3.217	ug/l		97

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046046.D
Acq On : 05 May 2025 16:04
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Quant Time: May 06 06:12:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

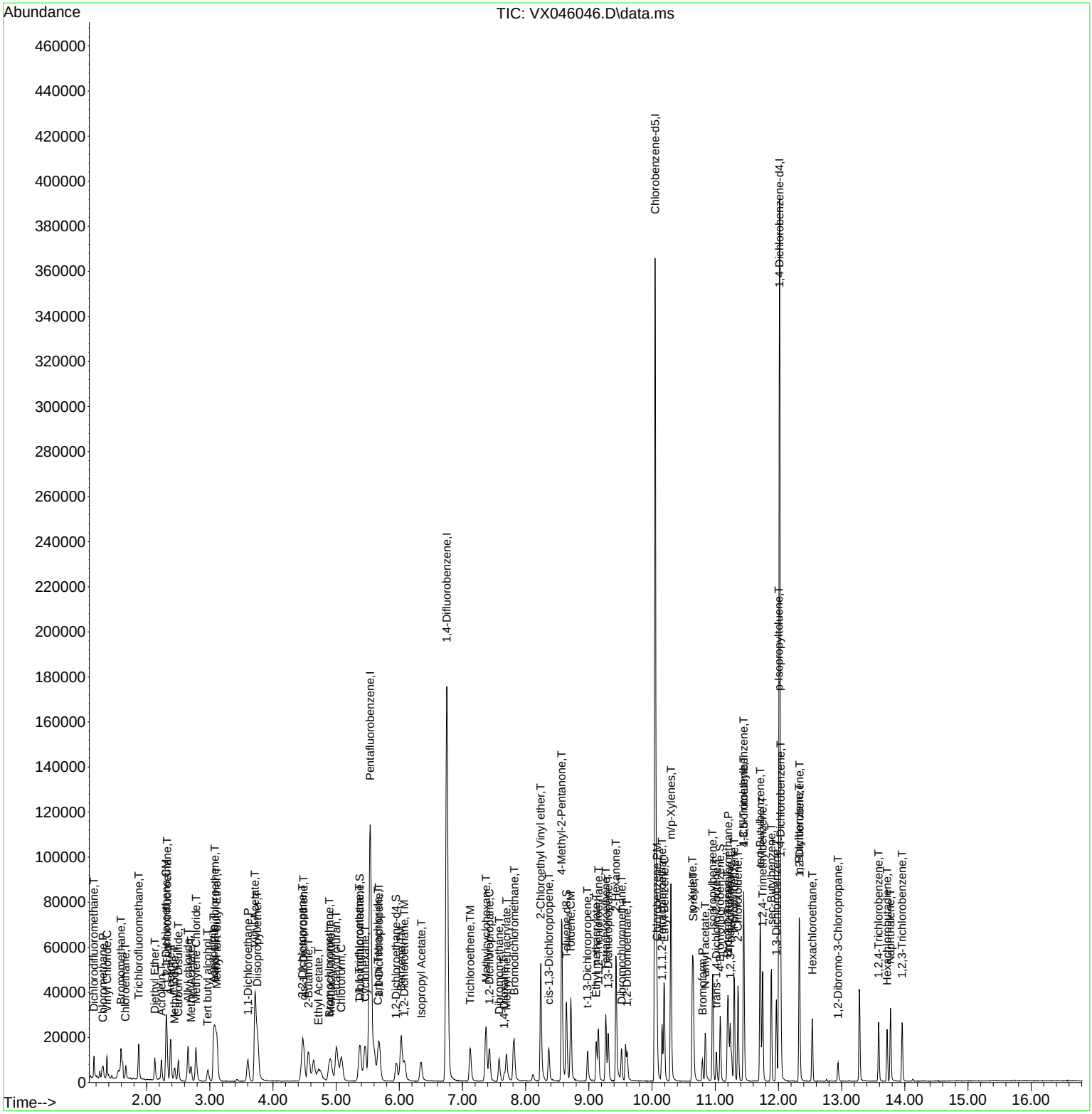
(#) = qualifier out of range (m) = manual integration (+) = signals summed

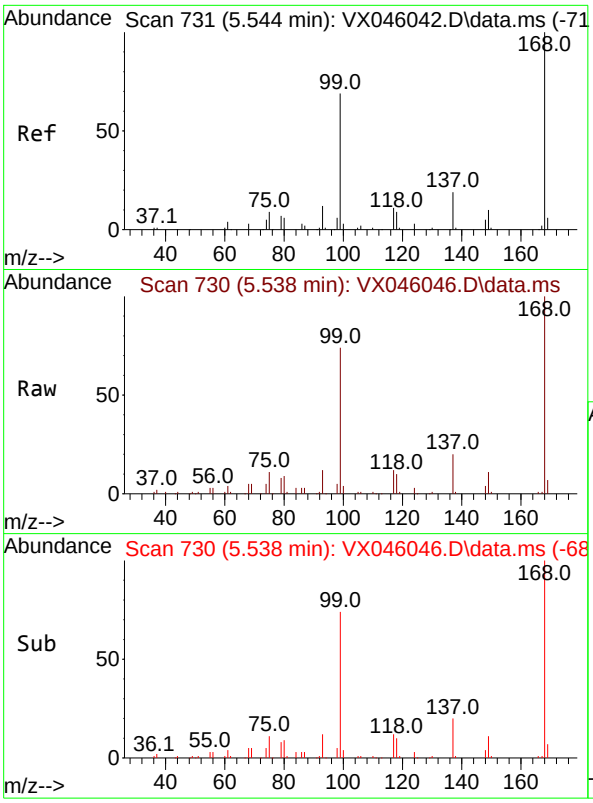
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046046.D
Acq On : 05 May 2025 16:04
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Quant Time: May 06 06:12:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration



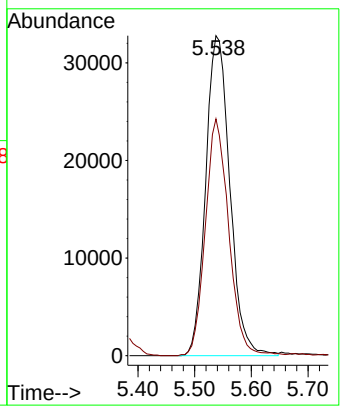


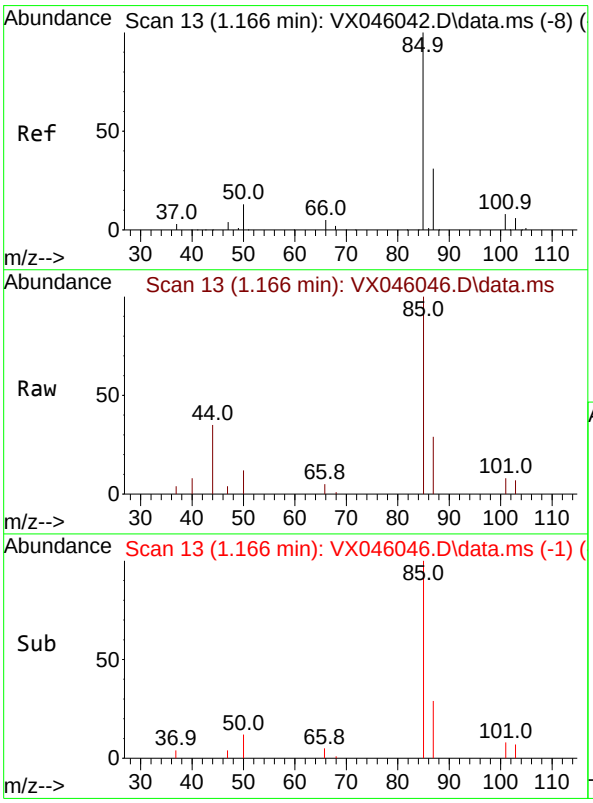
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:168 Resp: 96964

Ion	Ratio	Lower	Upper
168	100		
99	74.0	54.9	82.3

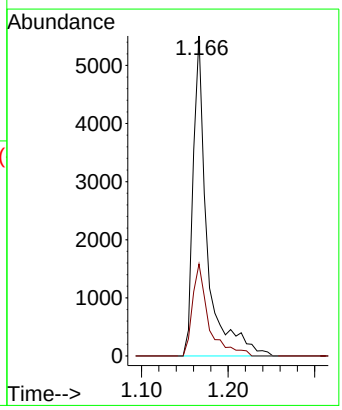


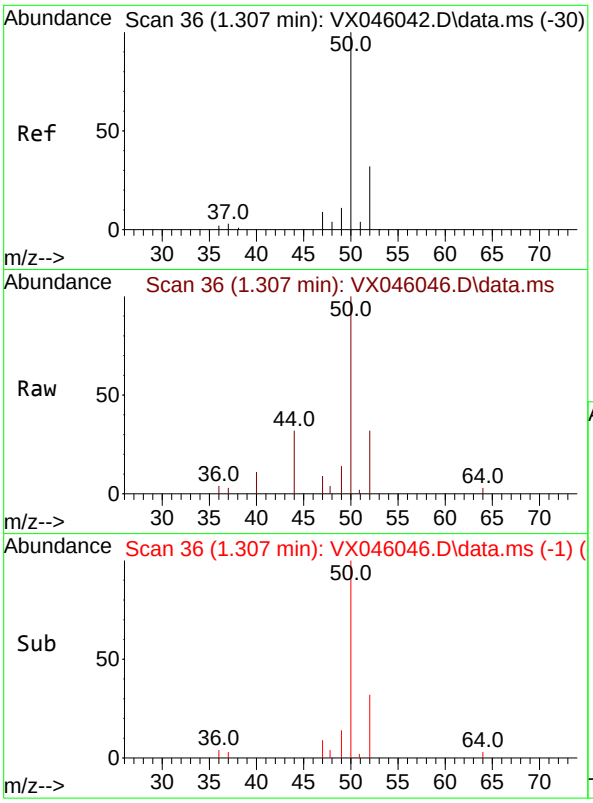


#2
Dichlorodifluoromethane
Concen: 2.894 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 85 Resp: 6195

Ion	Ratio	Lower	Upper
85	100		
87	28.7	15.7	47.1



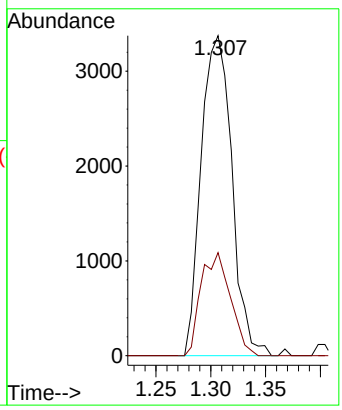


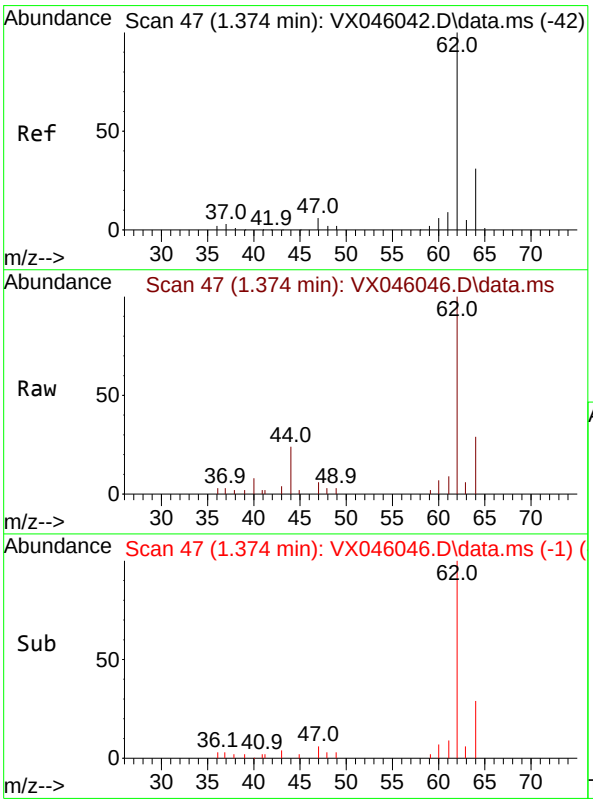
#3
Chloromethane
Concen: 3.125 ug/l
RT: 1.307 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 50 Resp: 6587

Ion	Ratio	Lower	Upper
50	100		
52	32.2	25.4	38.2

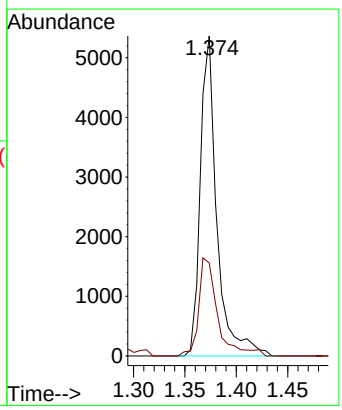


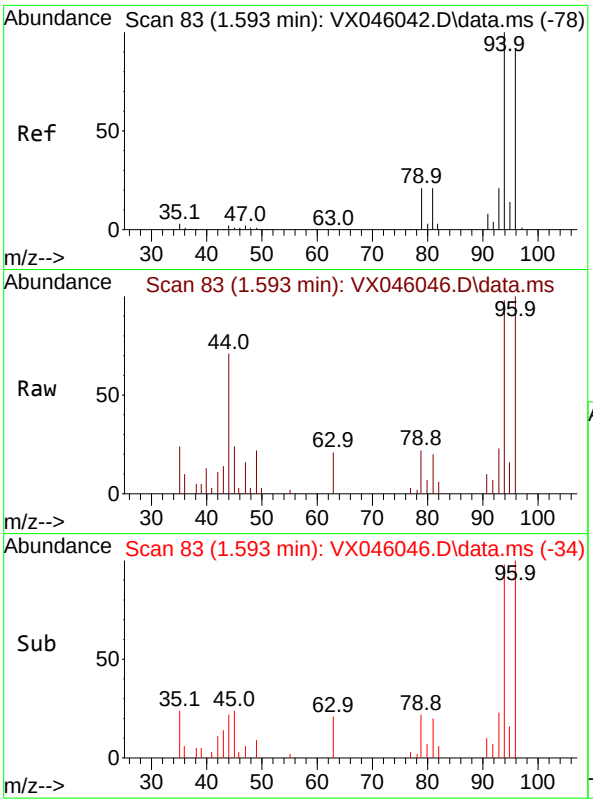


#4
Vinyl Chloride
Concen: 3.249 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 62 Resp: 5999

Ion	Ratio	Lower	Upper
62	100		
64	29.1	25.2	37.8



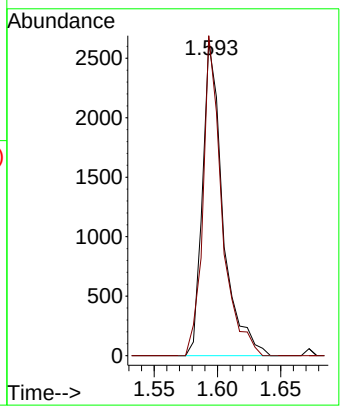


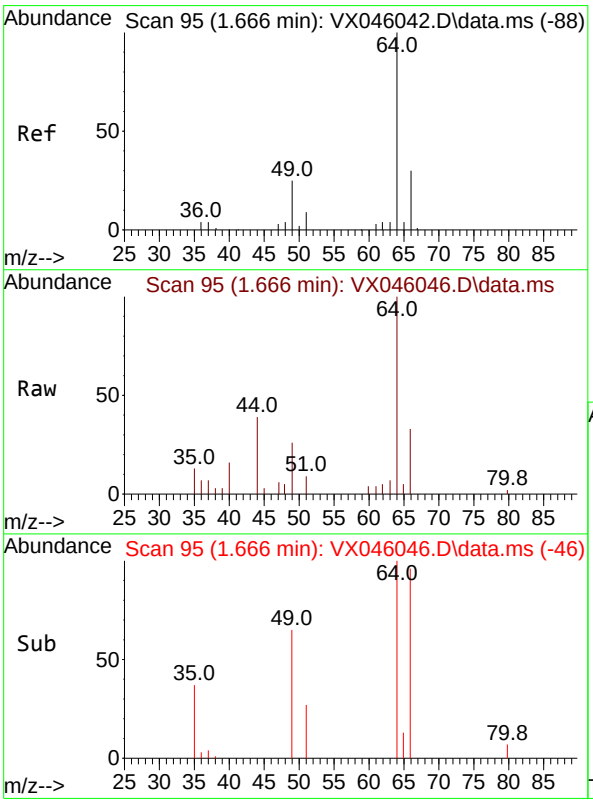
#5
Bromomethane
Concen: 3.164 ug/l
RT: 1.593 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 94 Resp: 2962

Ion	Ratio	Lower	Upper
94	100		
96	102.2	72.8	109.2

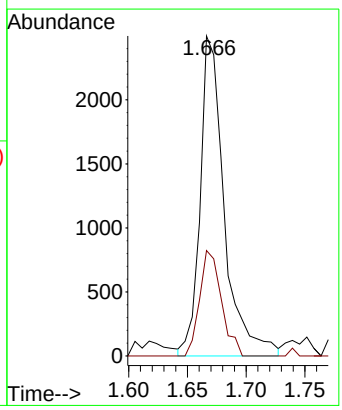


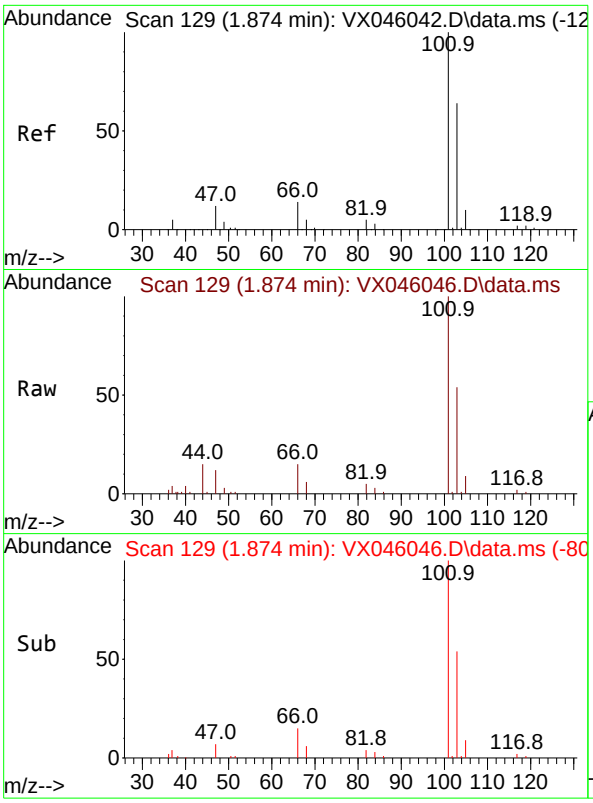


#6
Chloroethane
Concen: 3.750 ug/l
RT: 1.666 min Scan# 95
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 64 Resp: 3567

Ion	Ratio	Lower	Upper
64	100		
66	33.7	24.3	36.5



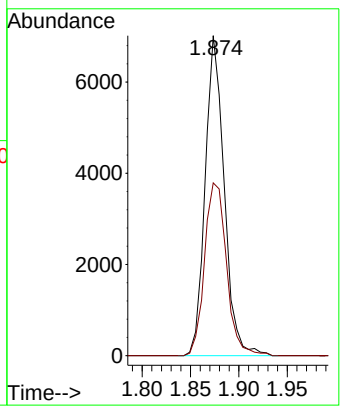


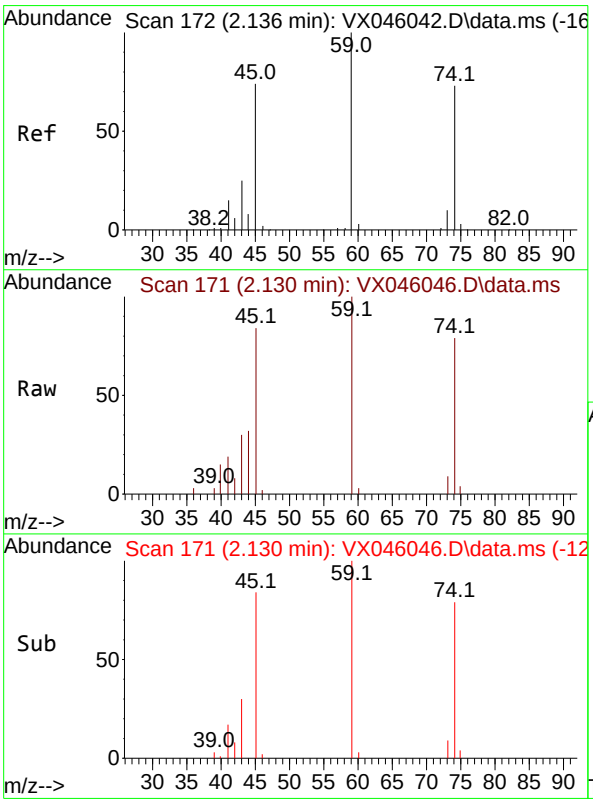
#7
Trichlorofluoromethane
Concen: 3.413 ug/l
RT: 1.874 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:101 Resp: 9599

Ion	Ratio	Lower	Upper
101	100		
103	54.0	51.0	76.4

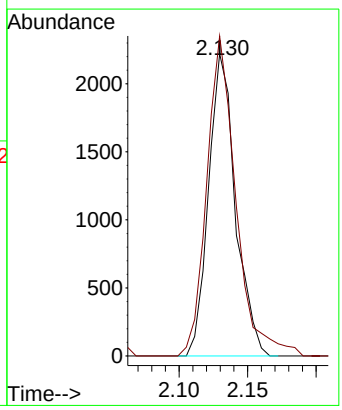


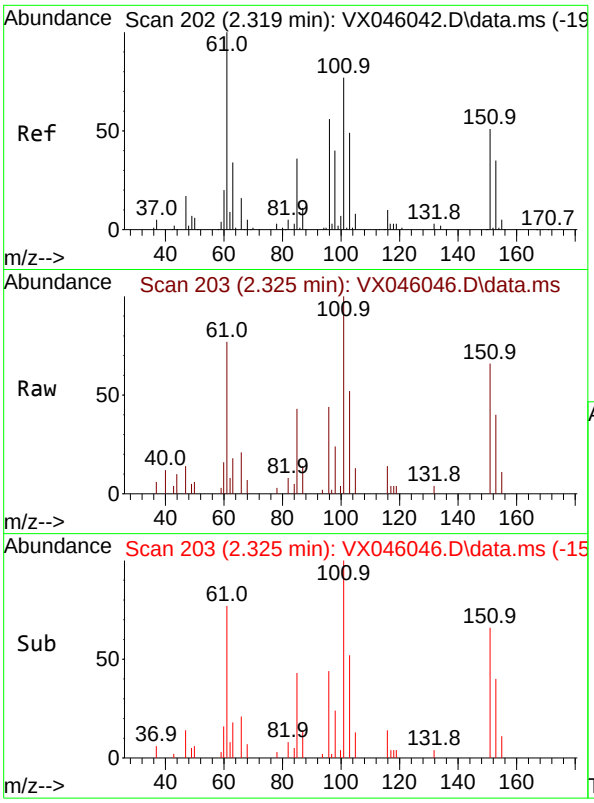


#8
Diethyl Ether
Concen: 3.266 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 74 Resp: 3020

Ion	Ratio	Lower	Upper
74	100		
45	115.1	54.9	164.8



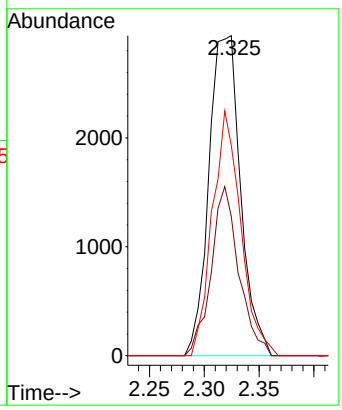


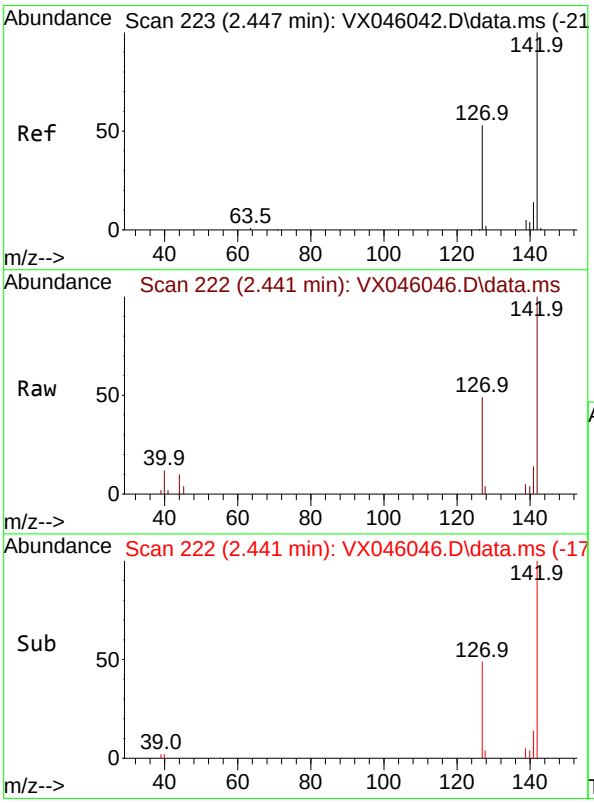
#9
1,1,2-Trichlorotrifluoroethane
Concen: 3.517 ug/l
RT: 2.325 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:101 Resp: 5911

Ion	Ratio	Lower	Upper
101	100		
85	46.3	38.6	58.0
151	68.8	55.2	82.8

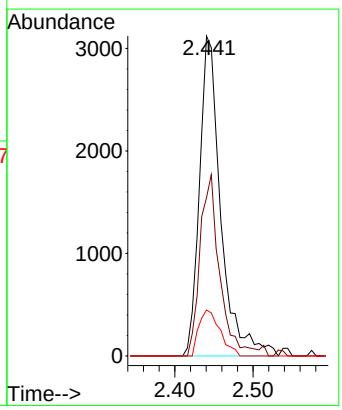


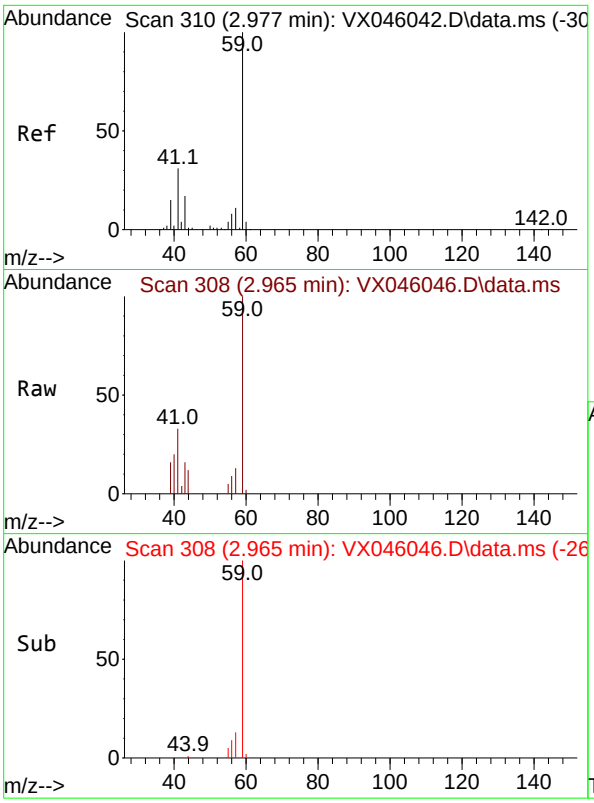


#10
Methyl Iodide
Concen: 2.990 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.006 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion:142 Resp: 5900

Ion	Ratio	Lower	Upper
142	100		
127	52.8	41.7	62.5
141	14.3	11.5	17.3



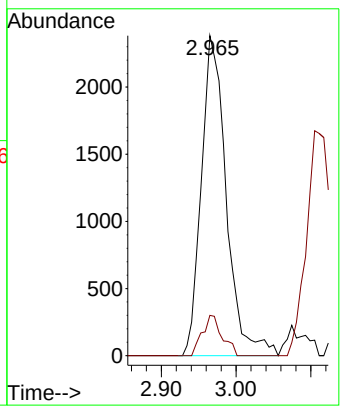


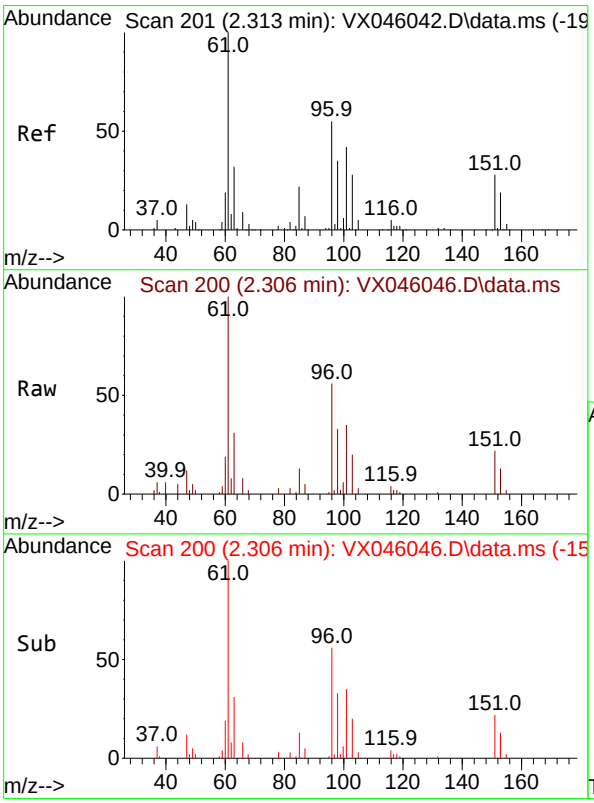
#11
Tert butyl alcohol
Concen: 16.111 ug/l
RT: 2.965 min Scan# 3
Delta R.T. -0.012 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 59 Resp: 5539

Ion	Ratio	Lower	Upper
59	100		
57	10.0	8.6	12.8

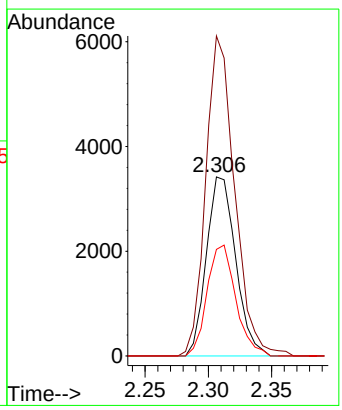


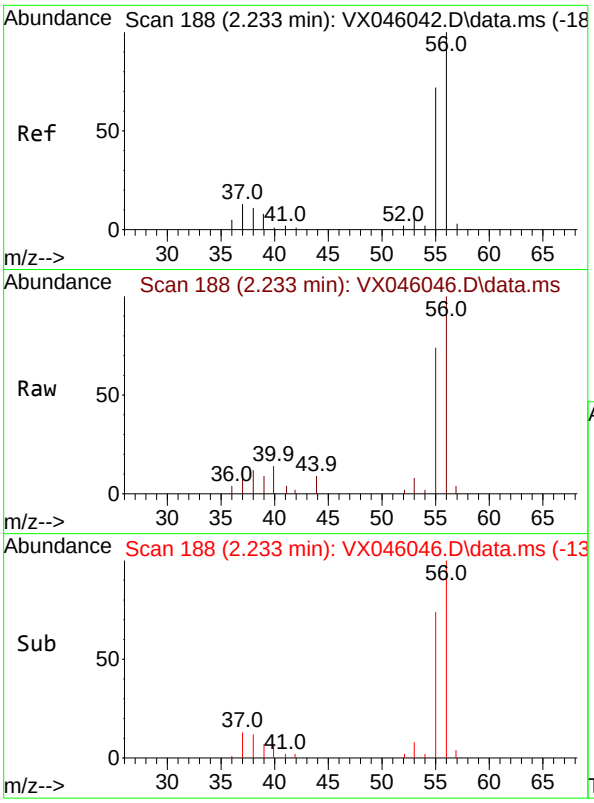


#12
1,1-Dichloroethene
Concen: 3.359 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.006 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 96 Resp: 5496

Ion	Ratio	Lower	Upper
96	100		
61	178.7	146.2	219.2
98	59.5	51.0	76.6



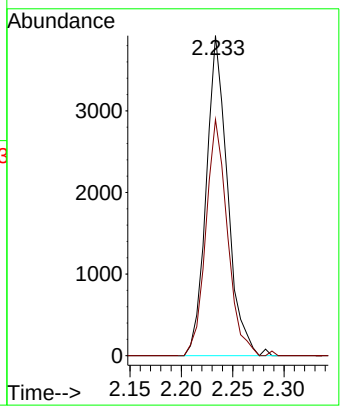


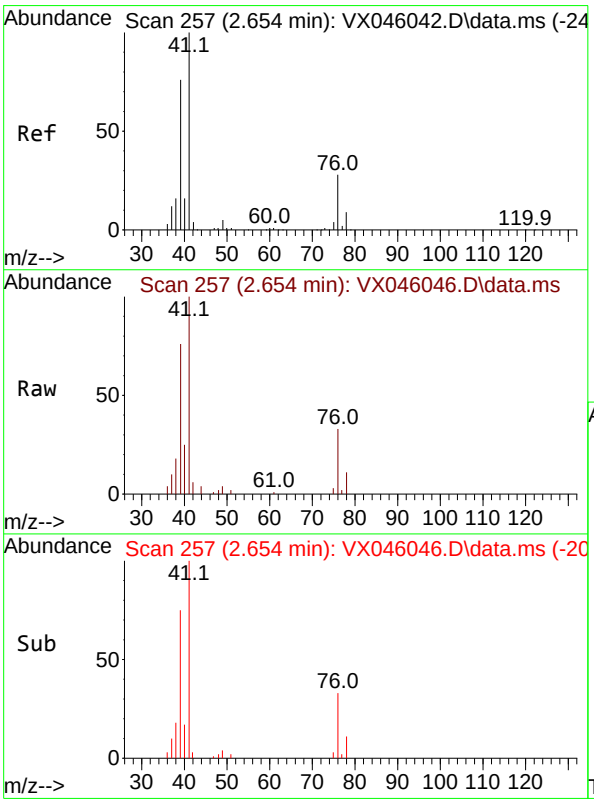
#13
Acrolein
Concen: 14.206 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 56 Resp: 5673

Ion	Ratio	Lower	Upper
56	100		
55	74.5	56.2	84.4

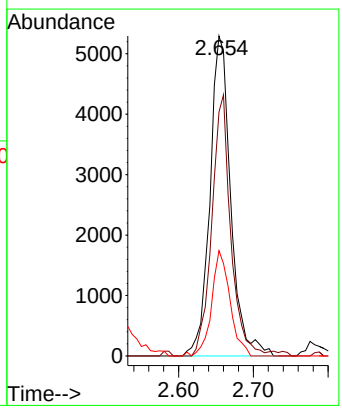


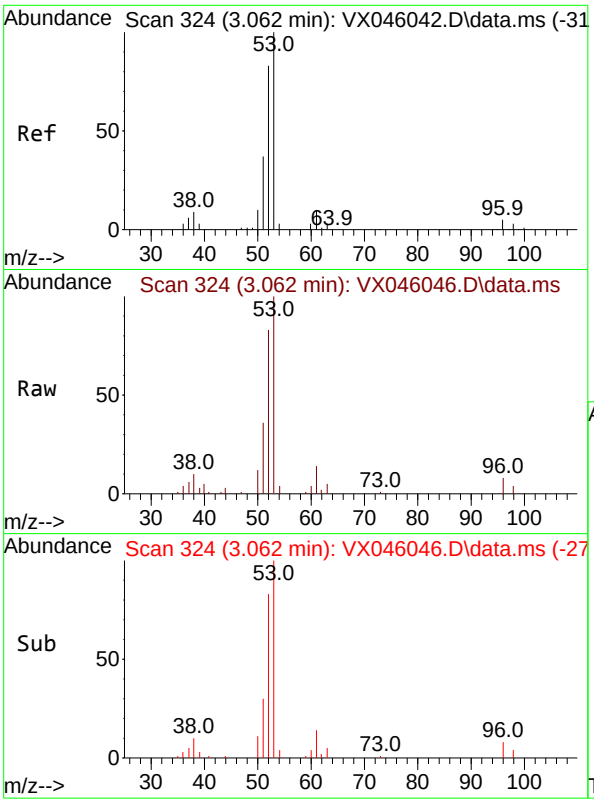


#14
Allyl chloride
Concen: 3.319 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 41 Resp: 10262

Ion	Ratio	Lower	Upper
41	100		
39	74.1	60.6	90.8
76	29.1	24.9	37.3



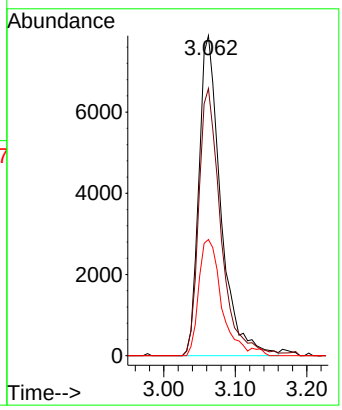


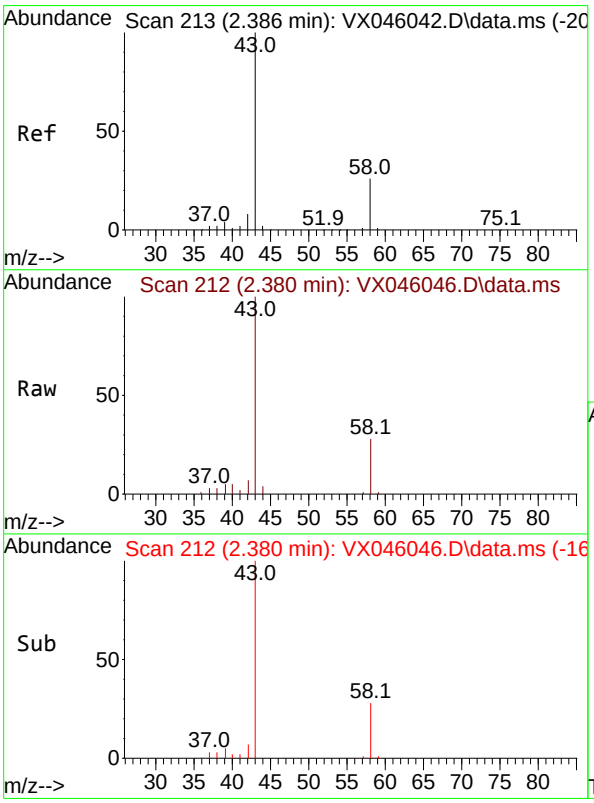
#15
Acrylonitrile
Concen: 16.282 ug/l
RT: 3.062 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 53 Resp: 16746

Ion	Ratio	Lower	Upper
53	100		
52	84.3	65.3	97.9
51	38.5	29.8	44.8

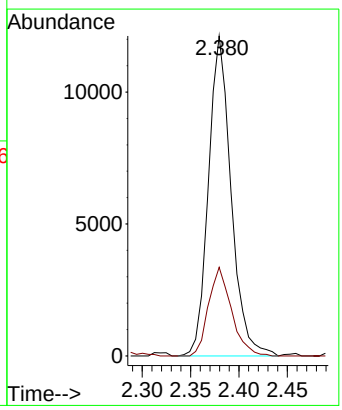


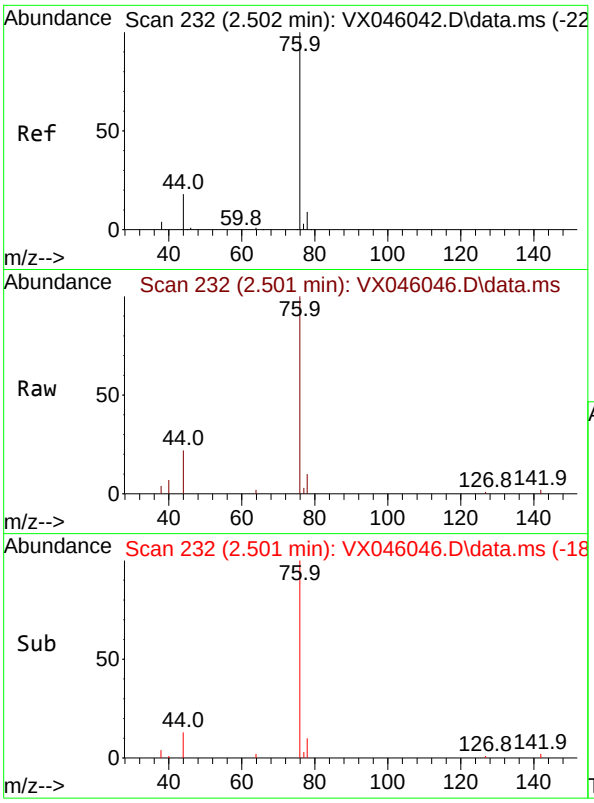


#16
Acetone
Concen: 20.036 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 43 Resp: 19773

Ion	Ratio	Lower	Upper
43	100		
58	27.7	21.2	31.8



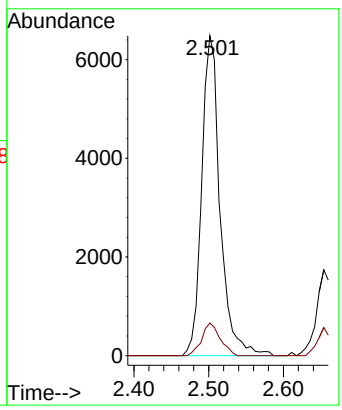


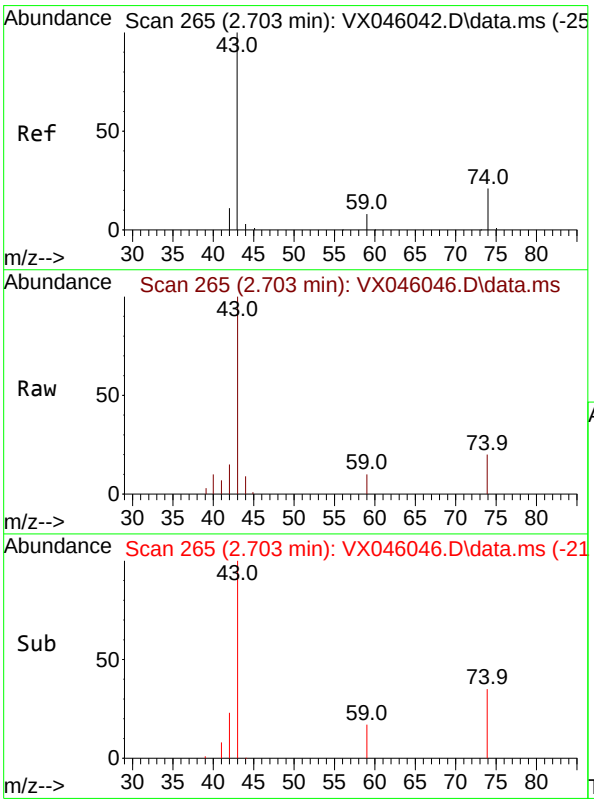
#17
Carbon Disulfide
Concen: 2.919 ug/l
RT: 2.501 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 76 Resp: 11068

Ion	Ratio	Lower	Upper
76	100		
78	10.2	7.0	10.4

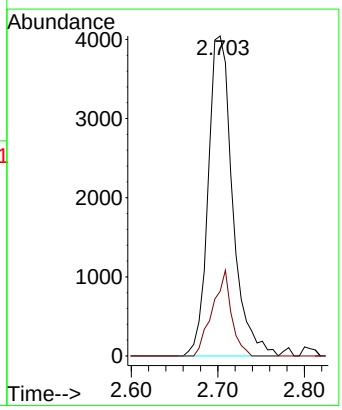


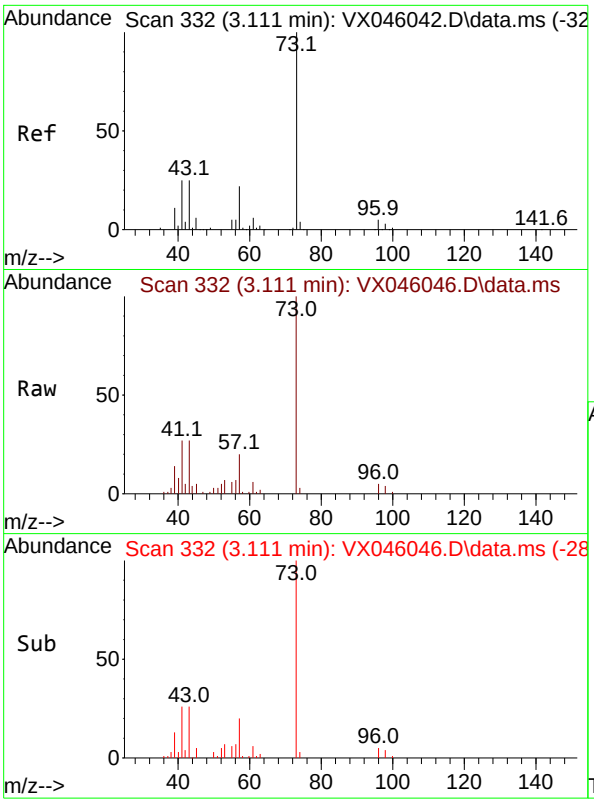


#18
Methyl Acetate
Concen: 3.357 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 43 Resp: 7909

Ion	Ratio	Lower	Upper
43	100		
74	20.9	16.7	25.1



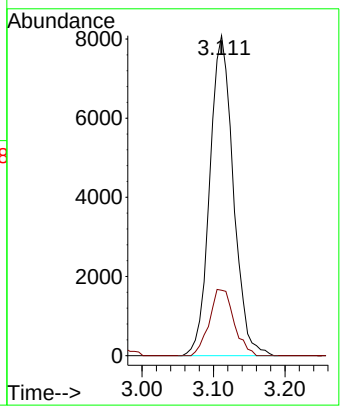


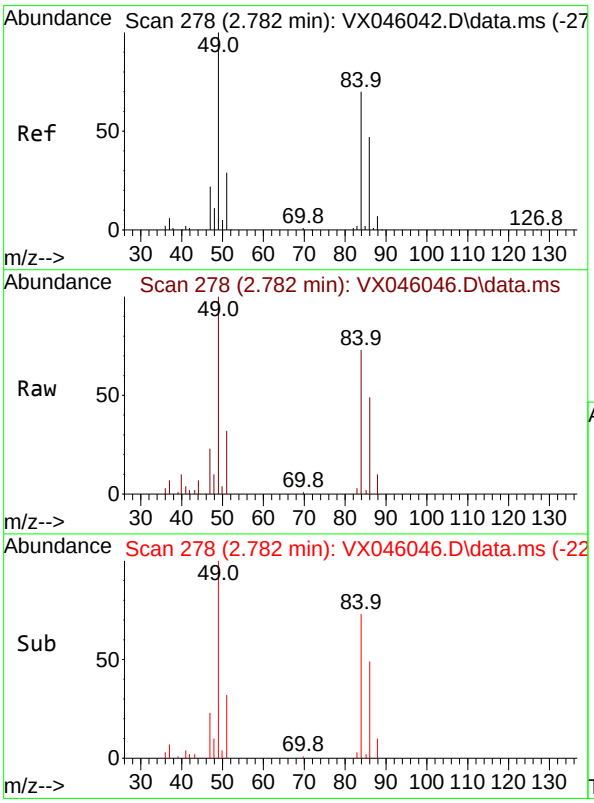
#19
Methyl tert-butyl Ether
Concen: 3.241 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 73 Resp: 18497

Ion	Ratio	Lower	Upper
73	100		
57	20.5	17.7	26.5

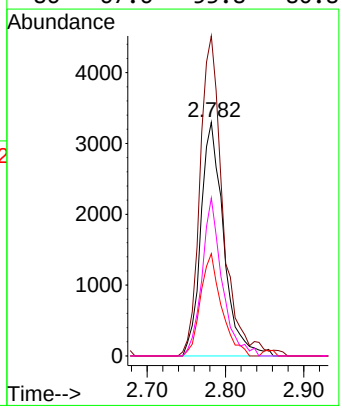


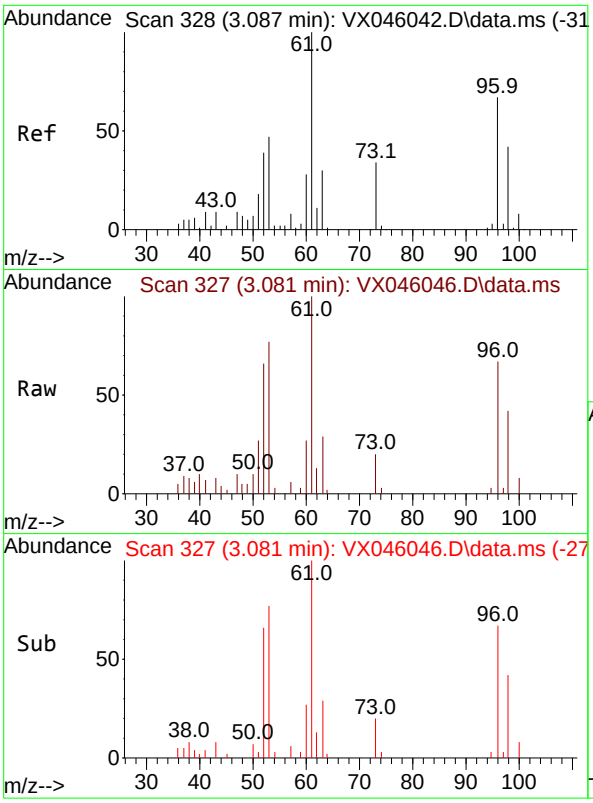


#20
Methylene Chloride
Concen: 3.341 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 84 Resp: 6680

Ion	Ratio	Lower	Upper
84	100		
49	137.0	113.9	170.9
51	43.8	33.5	50.3
86	67.6	53.8	80.8



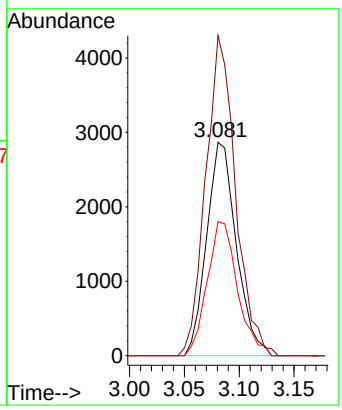


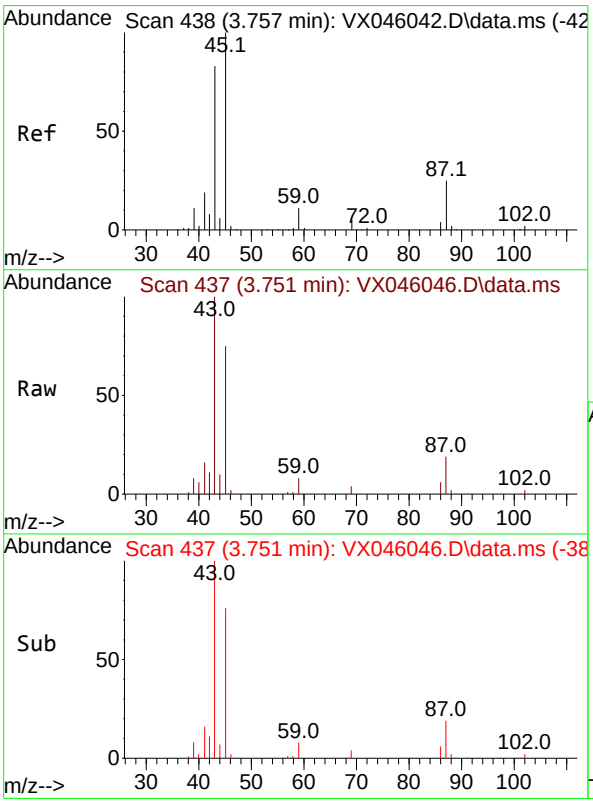
#21
trans-1,2-Dichloroethene
Concen: 3.234 ug/l
RT: 3.081 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 96 Resp: 5402

Ion	Ratio	Lower	Upper
96	100		
61	149.9	119.5	179.3
98	62.9	50.0	75.0

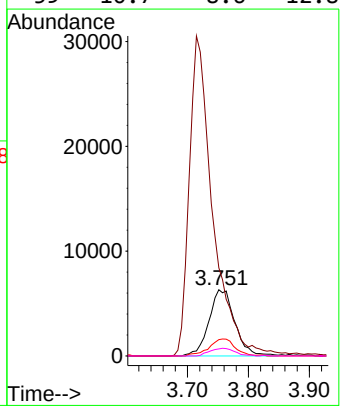


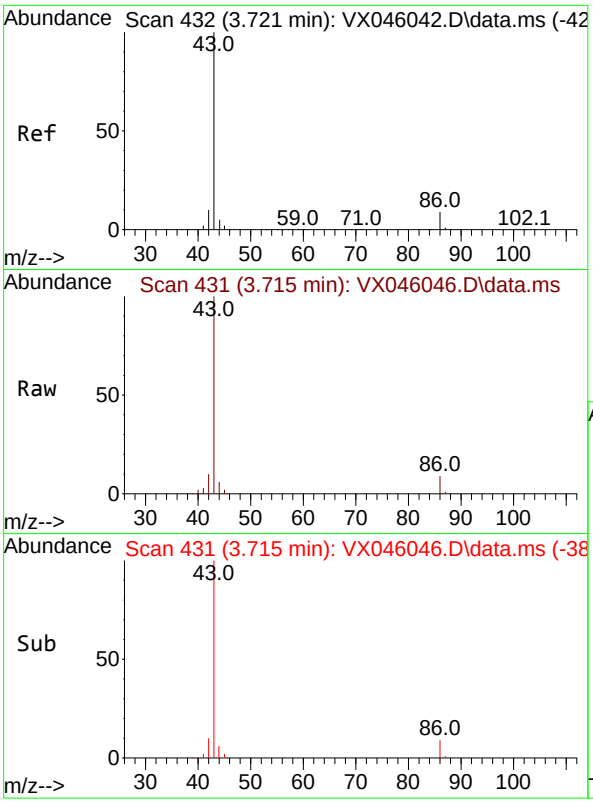


#22
Diisopropyl ether
Concen: 3.230 ug/l
RT: 3.751 min Scan# 437
Delta R.T. -0.006 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 45 Resp: 18657

Ion	Ratio	Lower	Upper
45	100		
43	128.0	66.6	100.0#
87	24.7	19.8	29.6
59	10.7	8.6	12.8



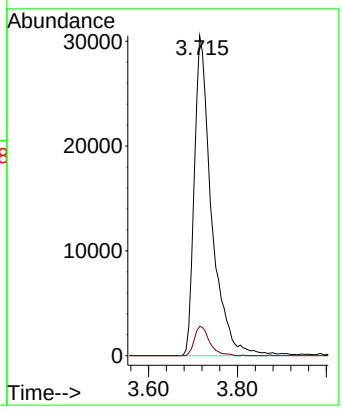


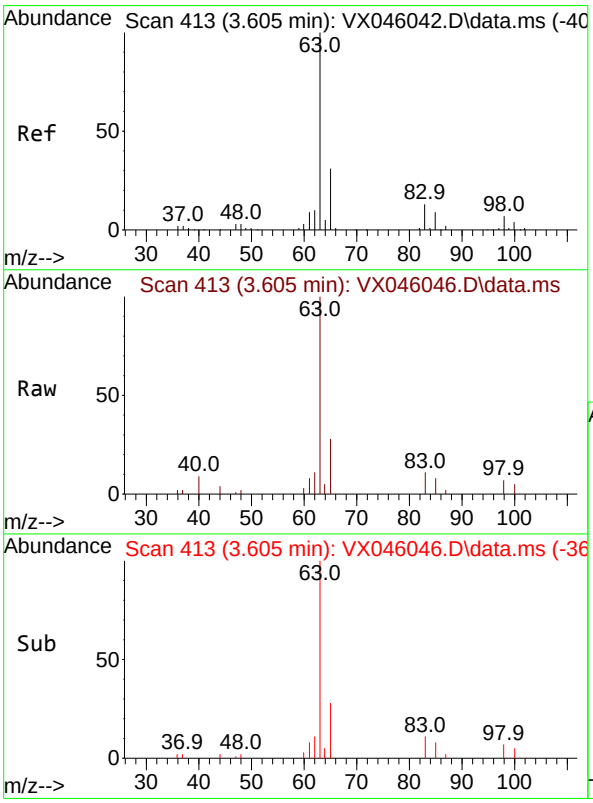
#23
Vinyl Acetate
Concen: 16.127 ug/l
RT: 3.715 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 82328

Ion	Ratio	Lower	Upper
43	100		
86	9.1	7.5	11.3

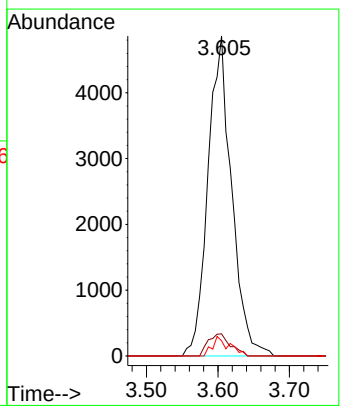


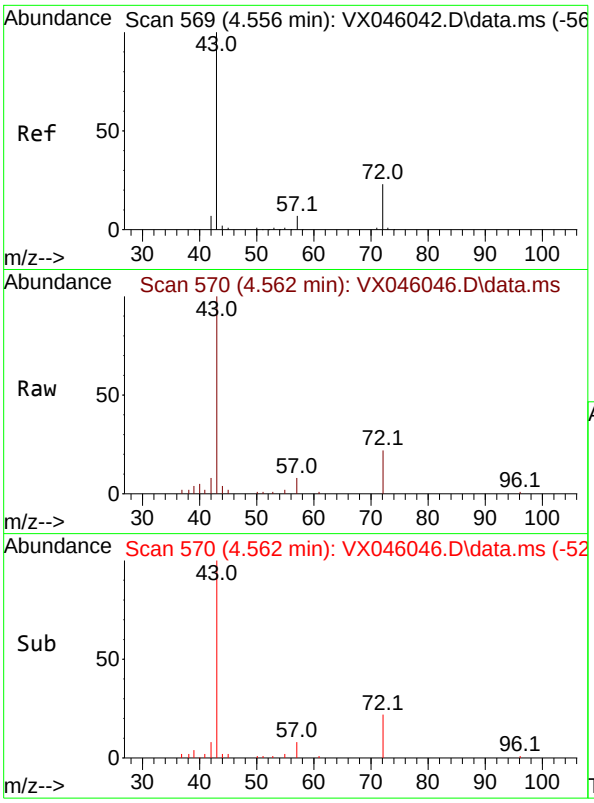


#24
1,1-Dichloroethane
Concen: 3.297 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 63 Resp: 11193

Ion	Ratio	Lower	Upper
63	100		
98	6.9	3.6	10.8
100	4.7	2.1	6.3



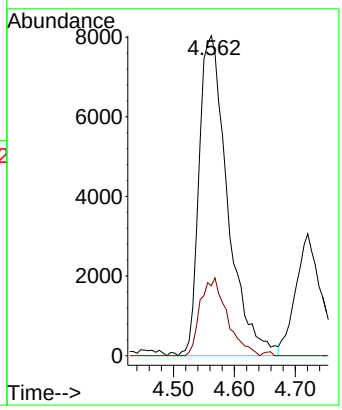


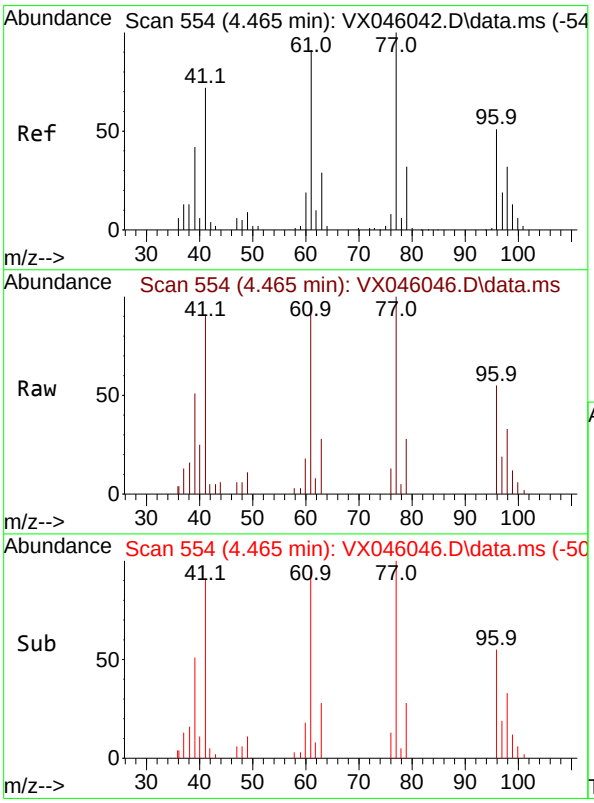
#25
2-Butanone
Concen: 18.340 ug/l
RT: 4.562 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 26125

Ion	Ratio	Lower	Upper
43	100		
72	21.8	18.4	27.6

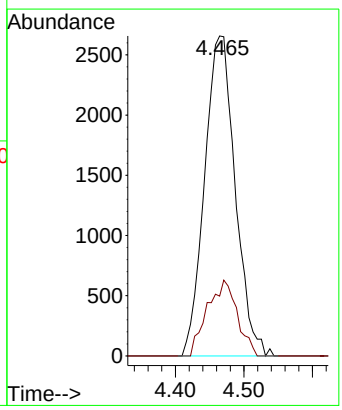


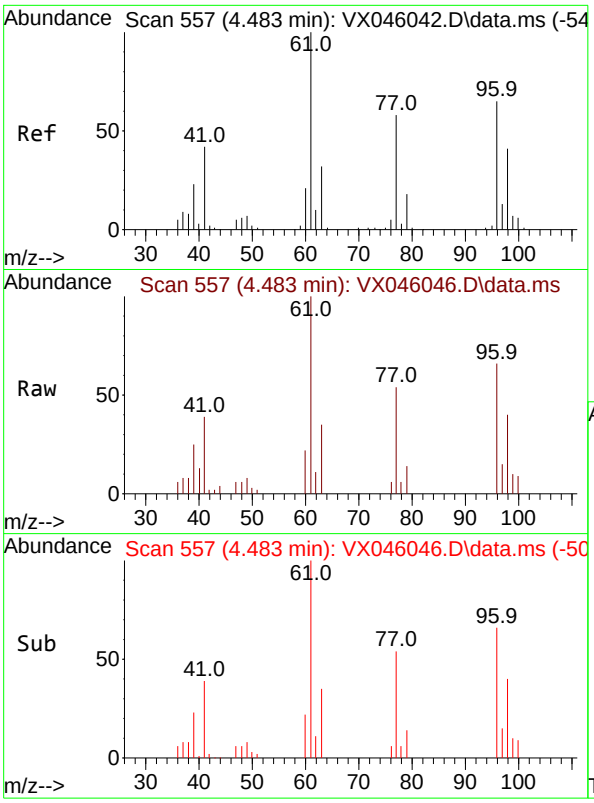


#26
2,2-Dichloropropane
Concen: 3.205 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 77 Resp: 8245

Ion	Ratio	Lower	Upper
77	100		
97	23.1	10.5	31.5



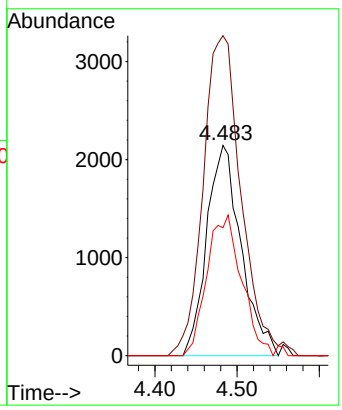


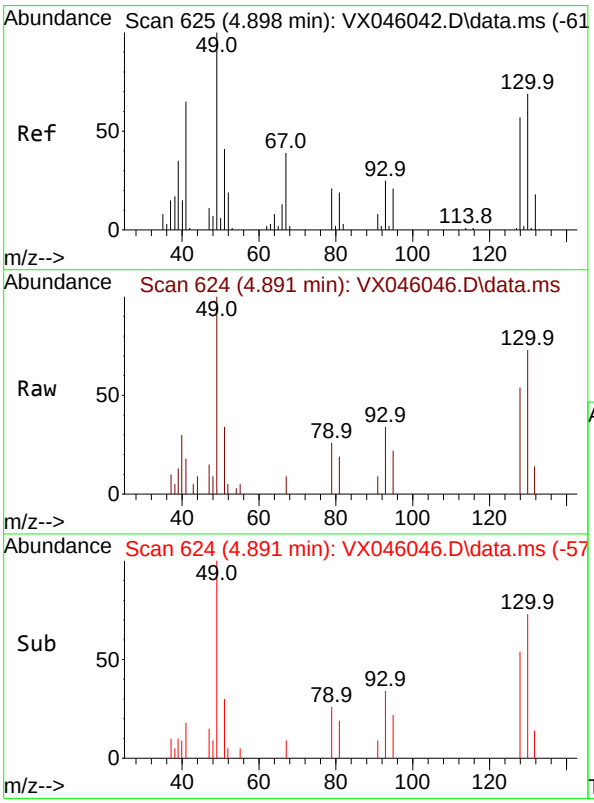
#27
cis-1,2-Dichloroethene
Concen: 3.089 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 96 Resp: 6222

Ion	Ratio	Lower	Upper
96	100		
61	168.5	0.0	322.8
98	67.6	0.0	129.0

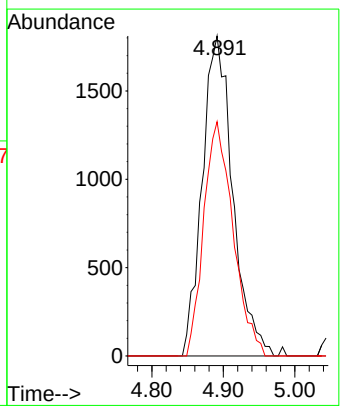


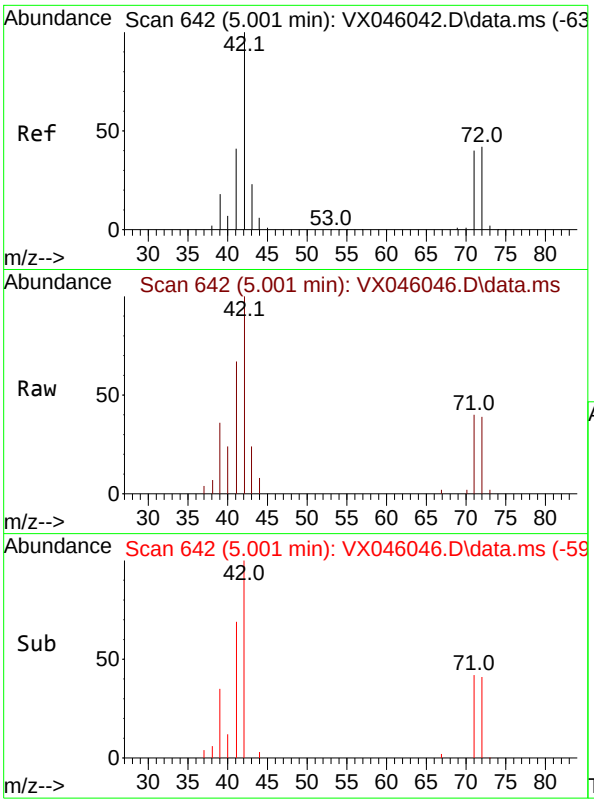


#28
Bromochloromethane
Concen: 2.969 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 49 Resp: 5360

Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.0
130	70.5	56.2	84.2



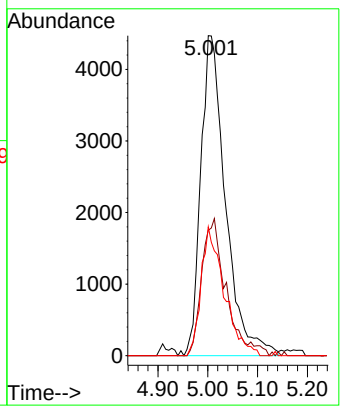


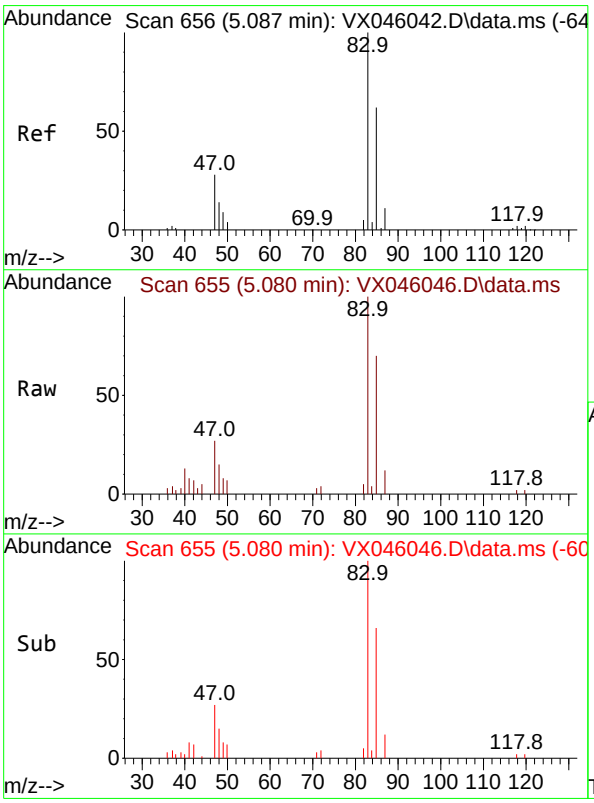
#29
Tetrahydrofuran
Concen: 16.680 ug/l
RT: 5.001 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 42 Resp: 15431

Ion	Ratio	Lower	Upper
42	100		
72	42.2	33.7	50.5
71	37.4	31.4	47.2

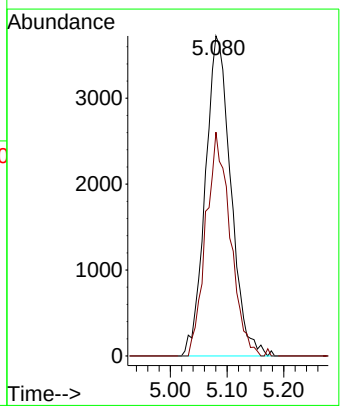


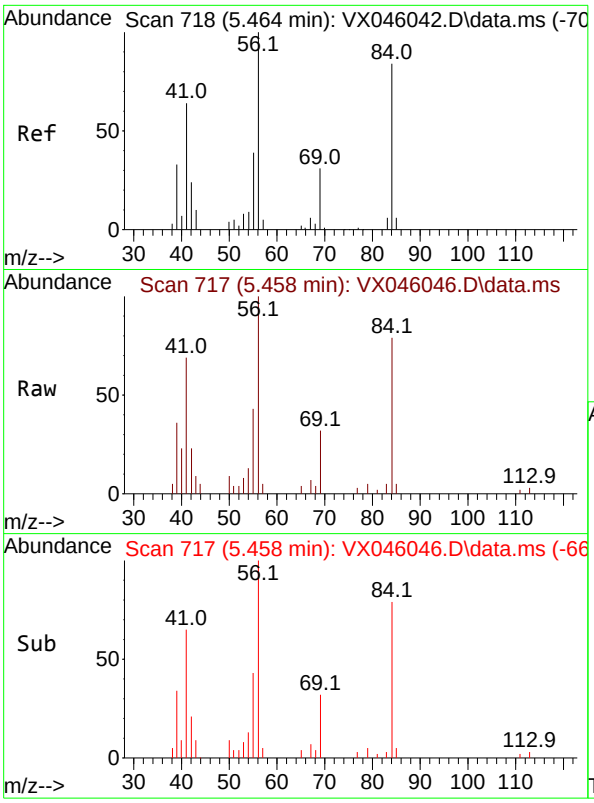


#30
Chloroform
Concen: 3.294 ug/l
RT: 5.080 min Scan# 655
Delta R.T. -0.006 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 83 Resp: 11624

Ion	Ratio	Lower	Upper
83	100		
85	69.9	49.3	73.9



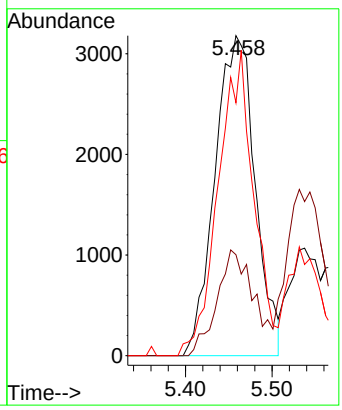


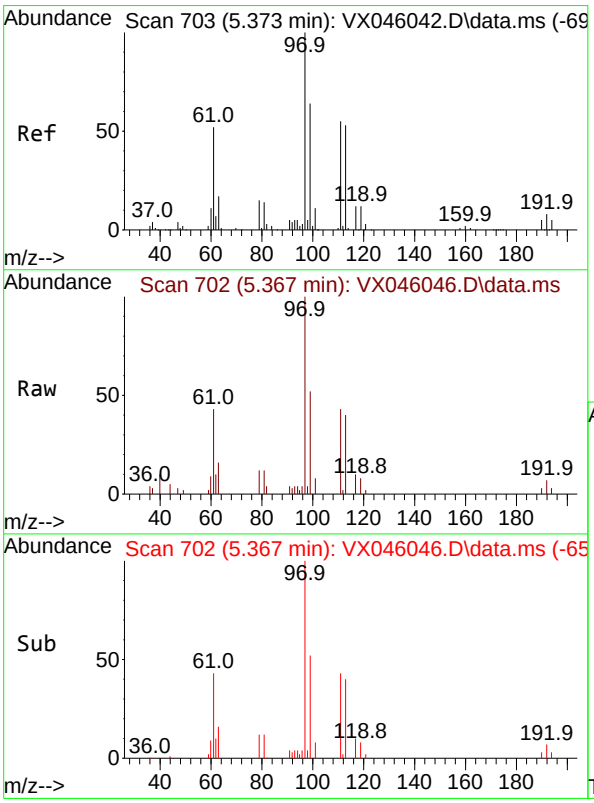
#31
Cyclohexane
Concen: 3.588 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 56 Resp: 10269

Ion	Ratio	Lower	Upper
56	100		
69	31.6	24.4	36.6
84	79.1	66.9	100.3

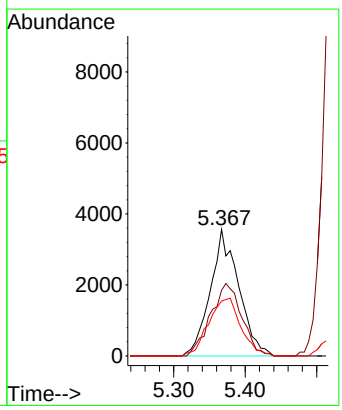


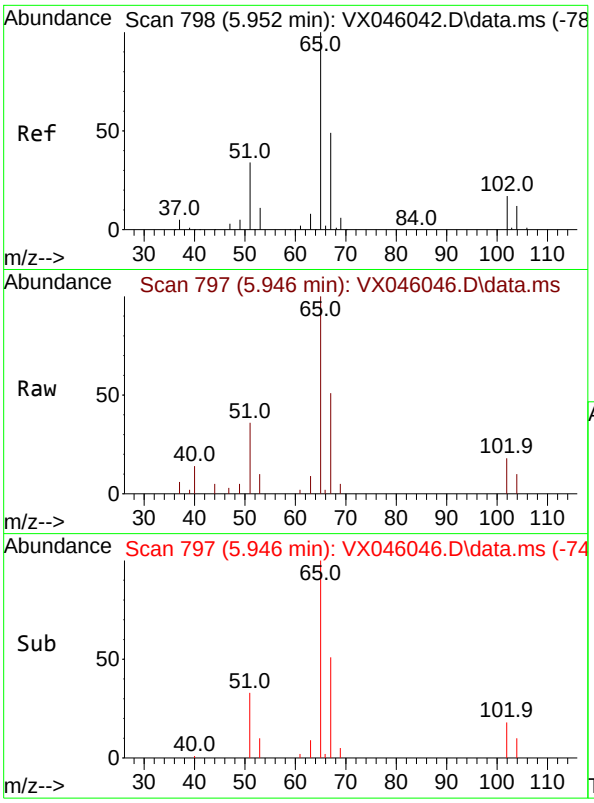


#32
1,1,1-Trichloroethane
Concen: 3.229 ug/l
RT: 5.367 min Scan# 702
Delta R.T. -0.006 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 97 Resp: 9827

Ion	Ratio	Lower	Upper
97	100		
99	62.6	51.8	77.6
61	51.8	40.1	60.1



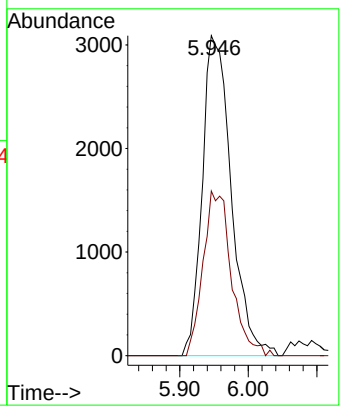


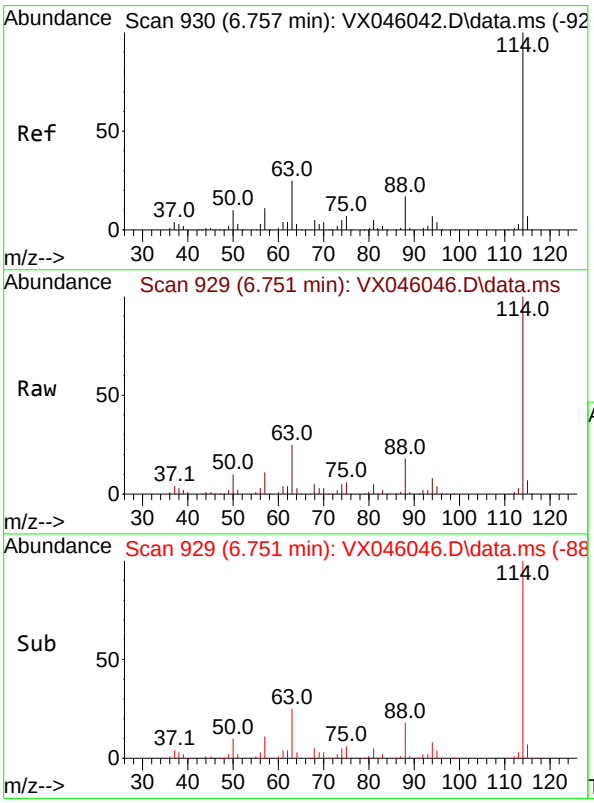
#33
1,2-Dichloroethane-d4
Concen: 3.143 ug/l
RT: 5.946 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 65 Resp: 9067

Ion	Ratio	Lower	Upper
65	100		
67	50.1	0.0	99.0

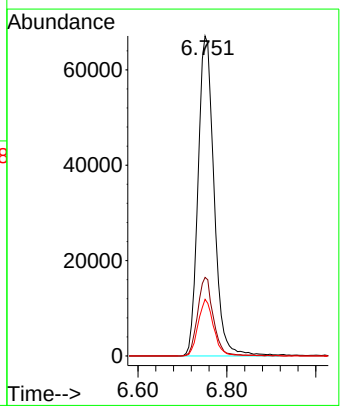


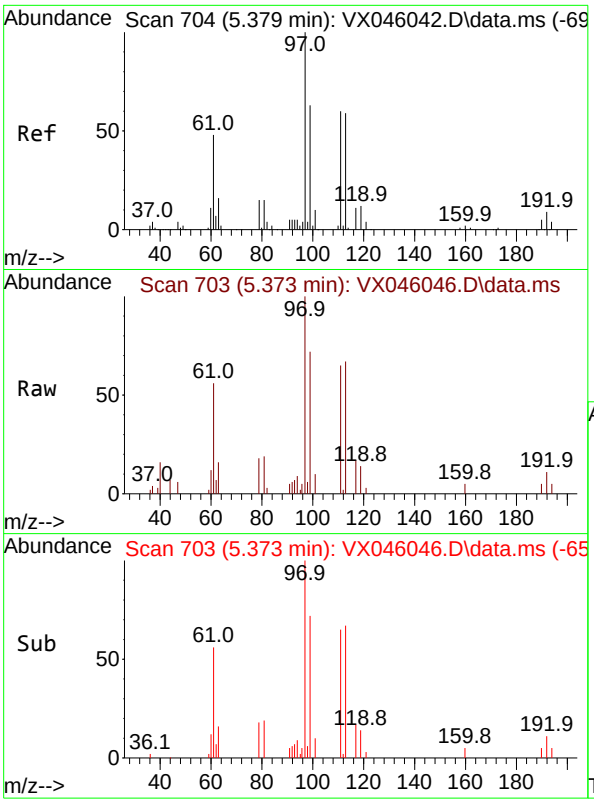


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. -0.006 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion:114 Resp: 168484

Ion	Ratio	Lower	Upper
114	100		
63	24.5	0.0	49.2
88	17.7	0.0	33.6



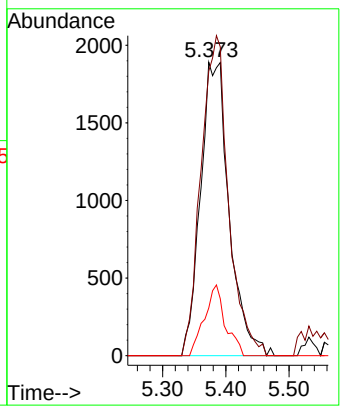


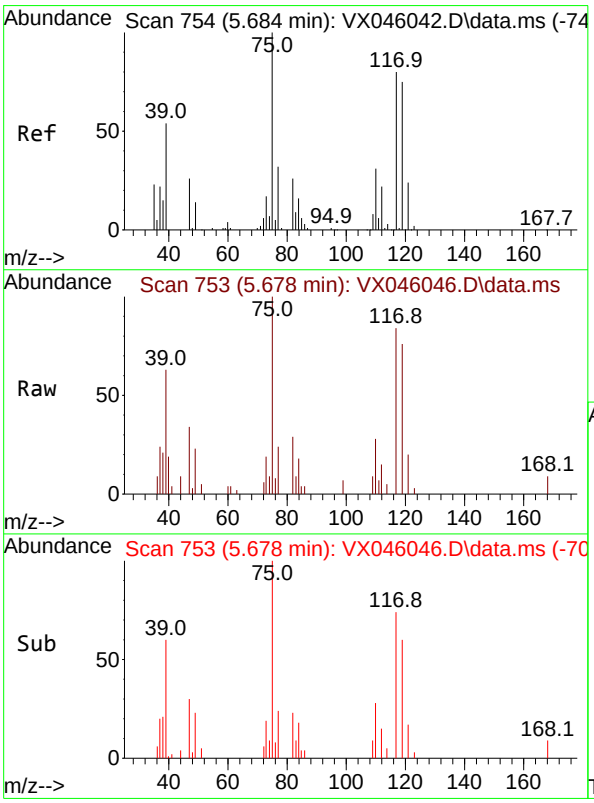
#35
Dibromofluoromethane
Concen: 3.161 ug/l
RT: 5.373 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:113 Resp: 5969

Ion	Ratio	Lower	Upper
113	100		
111	104.4	83.1	124.7
192	17.5	13.3	19.9

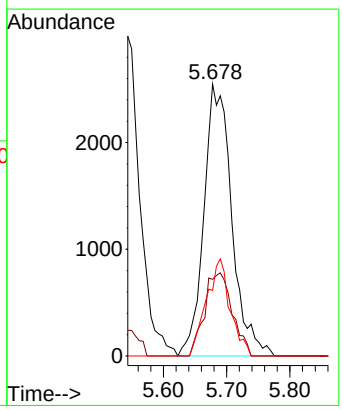


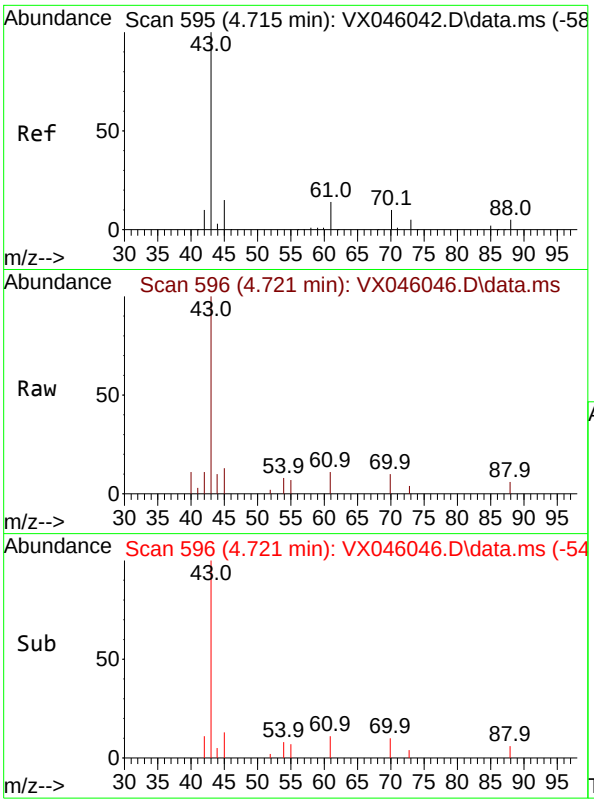


#36
1,1-Dichloropropene
Concen: 3.551 ug/l
RT: 5.678 min Scan# 753
Delta R.T. -0.006 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 75 Resp: 7787

Ion	Ratio	Lower	Upper
75	100		
110	30.6	16.3	48.9
77	30.5	24.3	36.5



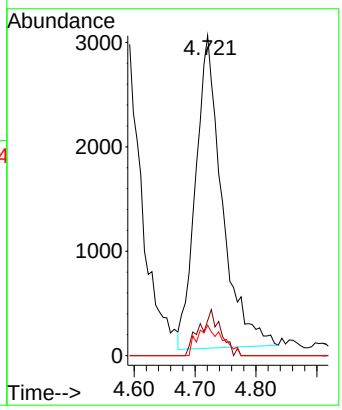


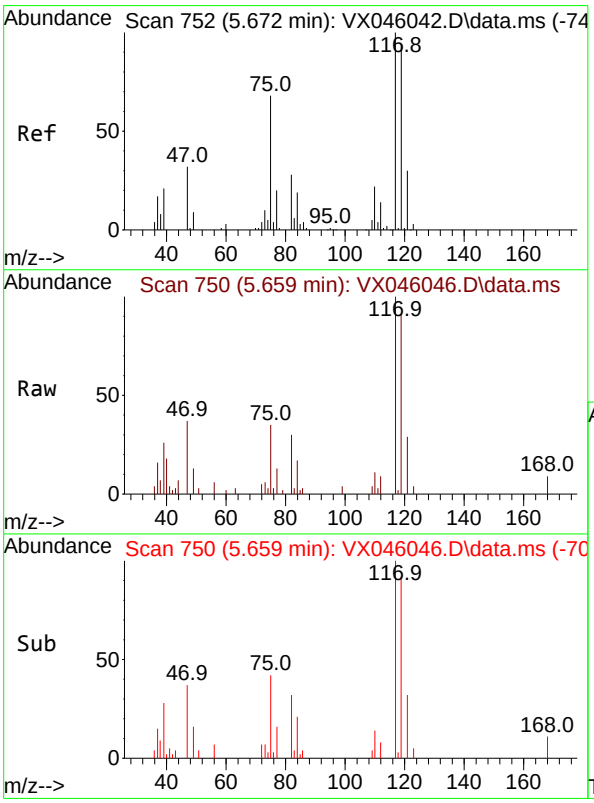
#37
Ethyl Acetate
Concen: 3.279 ug/l
RT: 4.721 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 9021

Ion	Ratio	Lower	Upper
43	100		
61	11.9	10.3	15.5
70	9.2	7.9	11.9

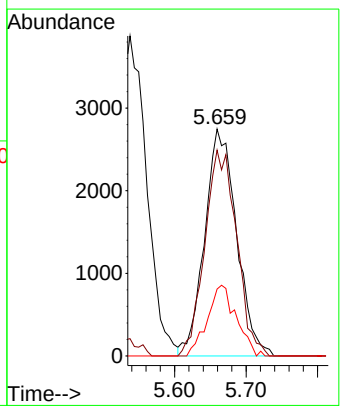


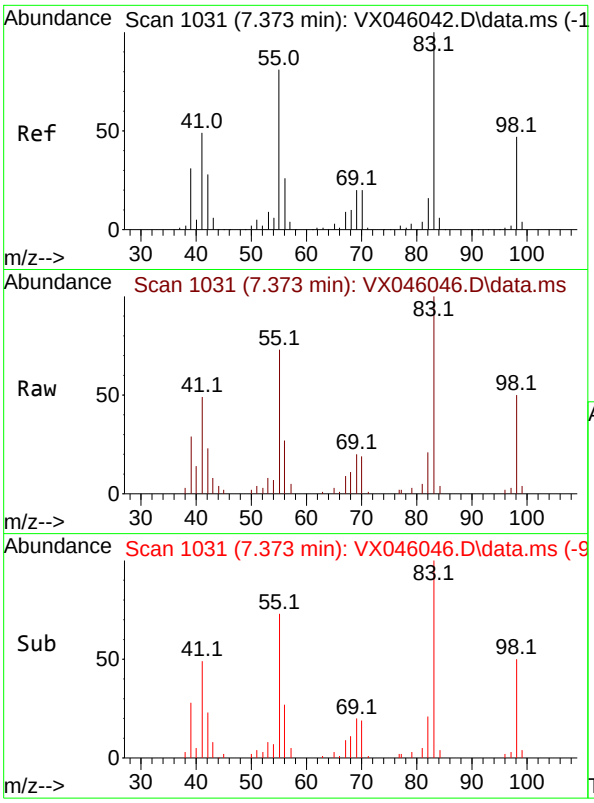


#38
Carbon Tetrachloride
Concen: 3.376 ug/l
RT: 5.659 min Scan# 750
Delta R.T. -0.012 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion:117 Resp: 8505

Ion	Ratio	Lower	Upper
117	100		
119	90.6	75.2	112.8
121	29.5	24.2	36.4



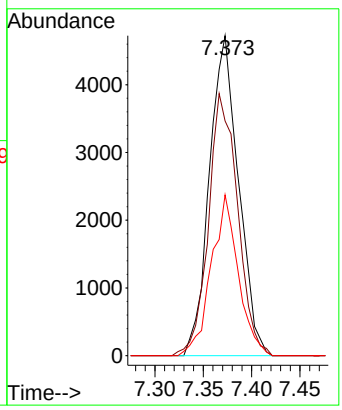


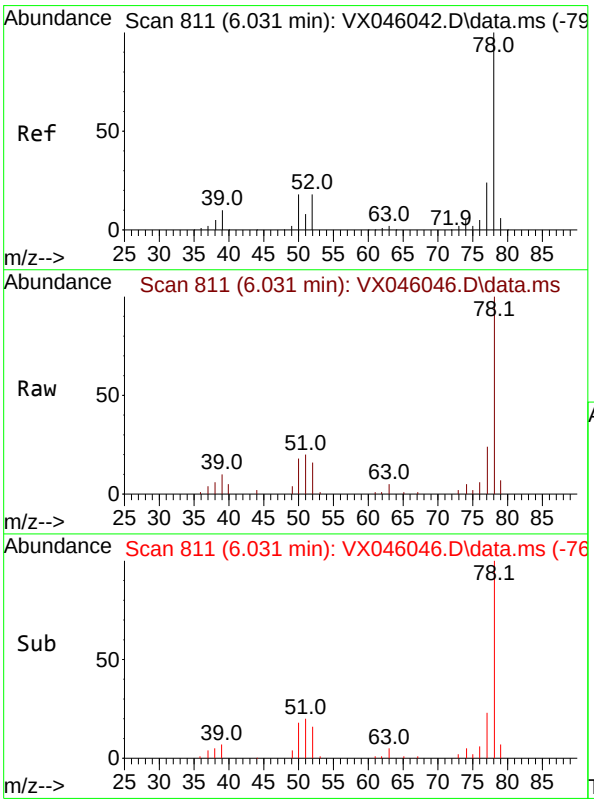
#39
Methylcyclohexane
Concen: 3.597 ug/l
RT: 7.373 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 83 Resp: 9882

Ion	Ratio	Lower	Upper
83	100		
55	73.3	64.7	97.1
98	50.3	37.4	56.2

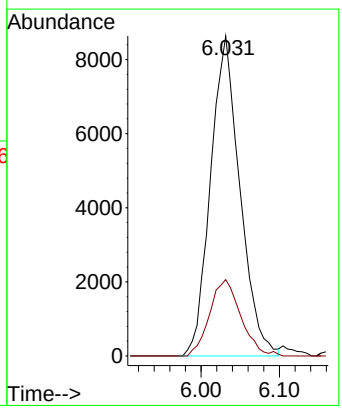


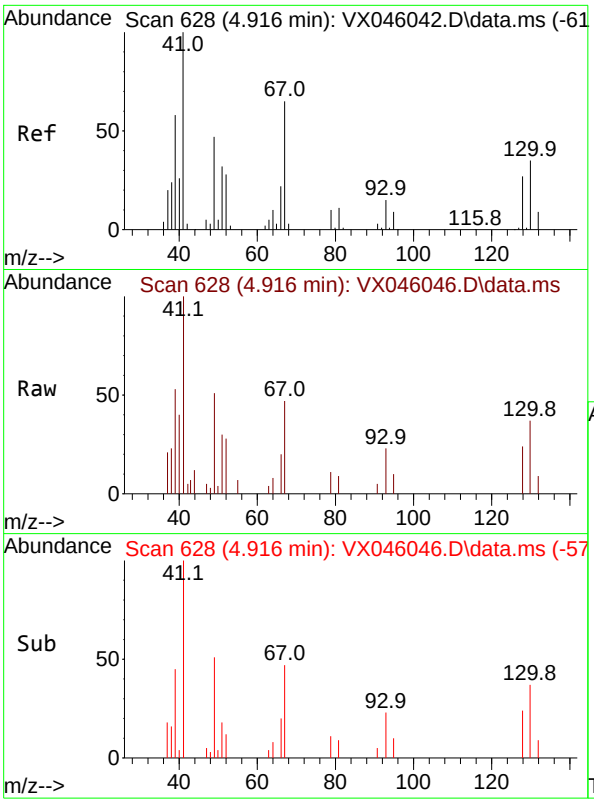


#40
Benzene
Concen: 3.315 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 78 Resp: 22528

Ion	Ratio	Lower	Upper
78	100		
77	23.9	19.0	28.4



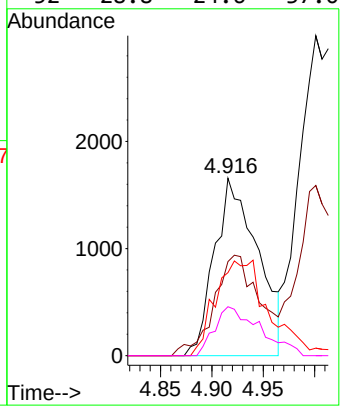


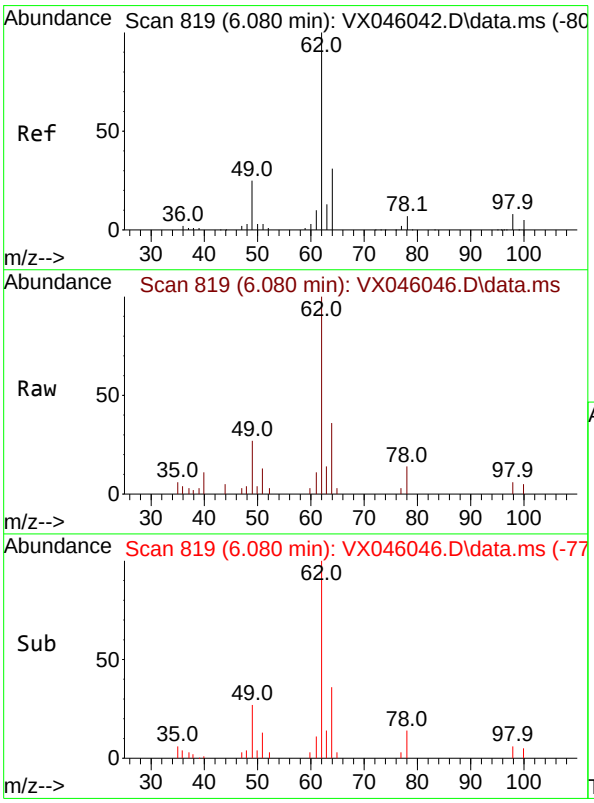
#41
Methacrylonitrile
Concen: 3.174 ug/l
RT: 4.916 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 41 Resp: 4851

Ion	Ratio	Lower	Upper
41	100		
39	59.7	47.2	70.8
67	0.0	50.7	76.1#
52	28.8	24.6	37.0

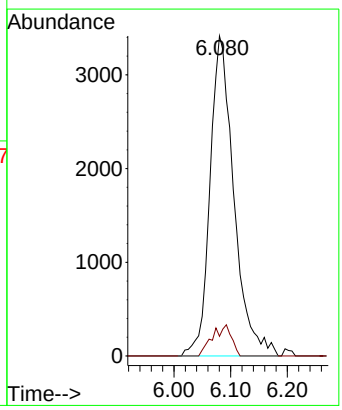


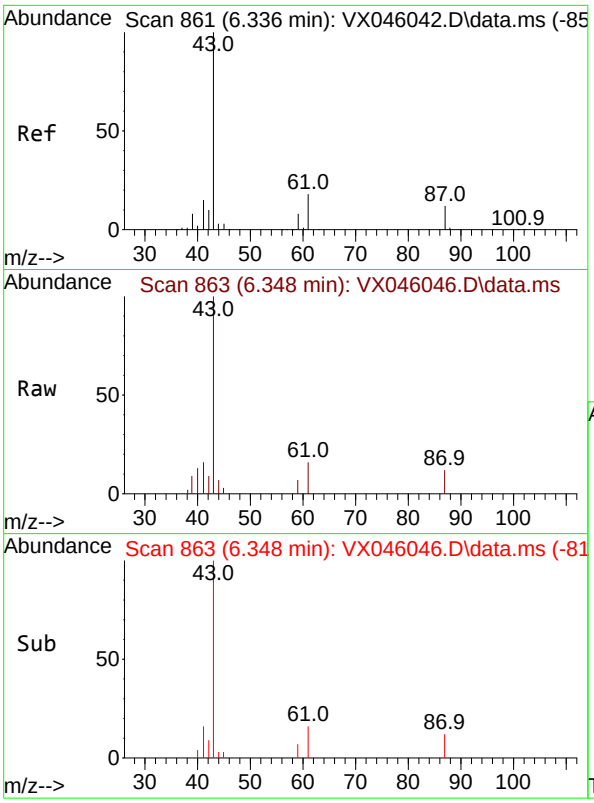


#42
1,2-Dichloroethane
Concen: 3.563 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 62 Resp: 10011

Ion	Ratio	Lower	Upper
62	100		
98	7.8	0.0	15.2



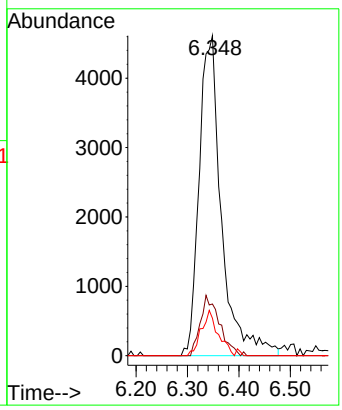


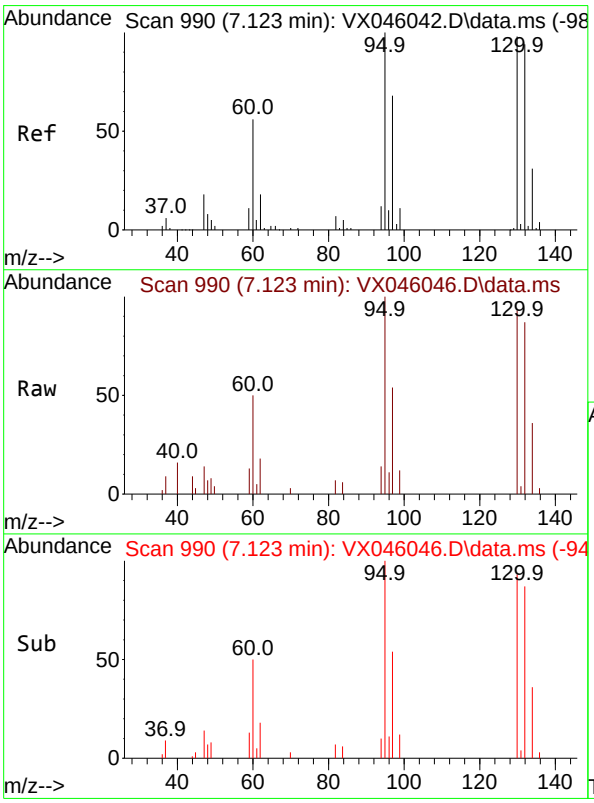
#43
Isopropyl Acetate
Concen: 3.309 ug/l
RT: 6.348 min Scan# 8
Delta R.T. 0.012 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 13914

Ion	Ratio	Lower	Upper
43	100		
61	16.2	14.3	21.5
87	10.6	9.5	14.3

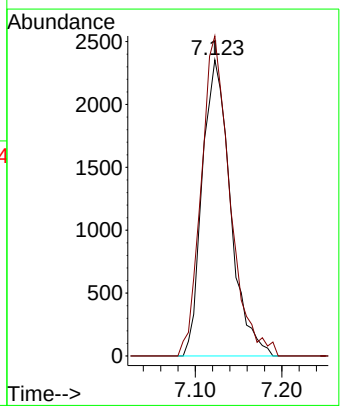


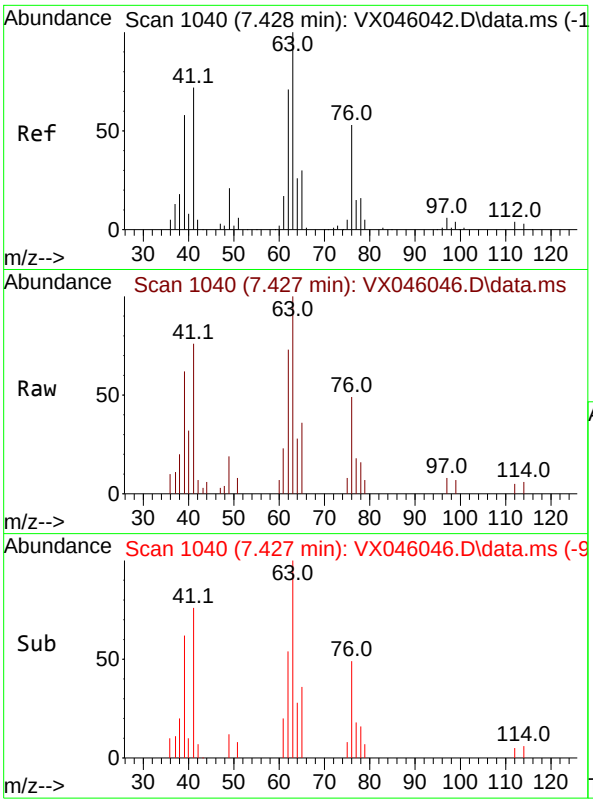


#44
Trichloroethene
Concen: 3.307 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion:130 Resp: 5313

Ion	Ratio	Lower	Upper
130	100		
95	108.1	0.0	204.2



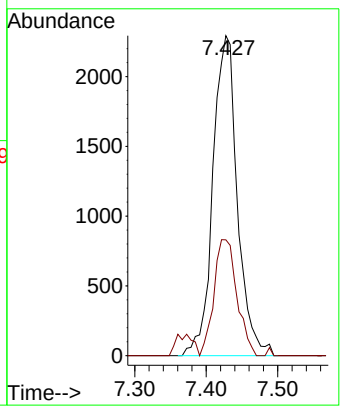


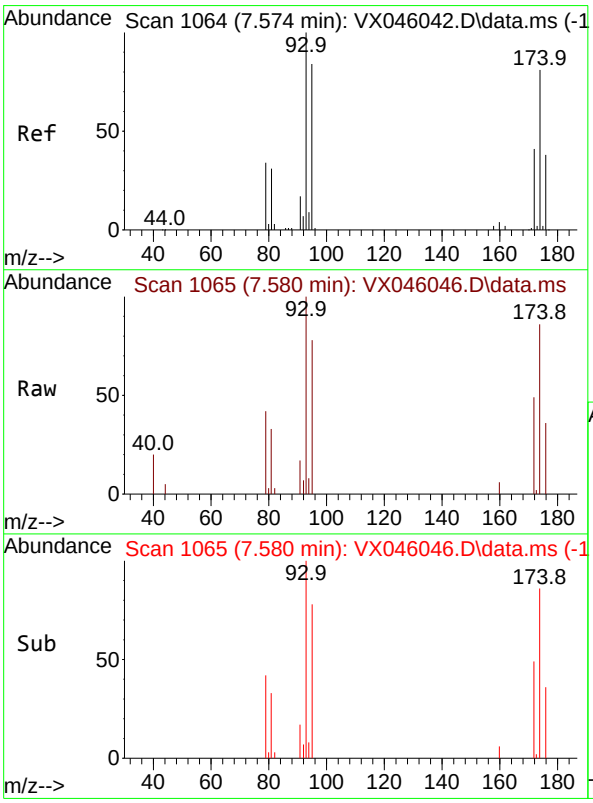
#45
1,2-Dichloropropane
Concen: 3.228 ug/l
RT: 7.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 63 Resp: 5451

Ion	Ratio	Lower	Upper
63	100		
65	36.2	24.1	36.1#

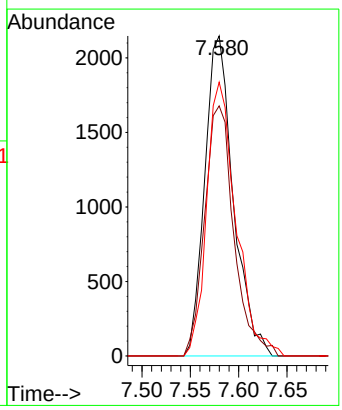


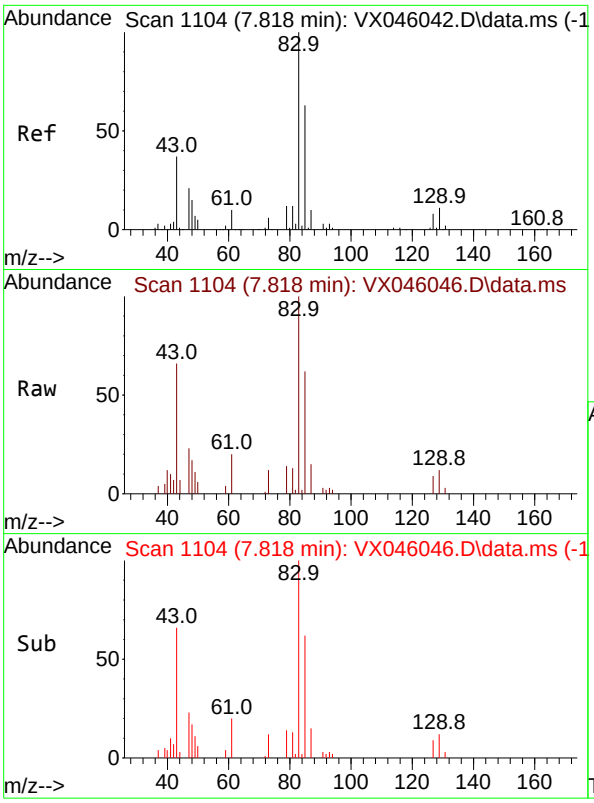


#46
Dibromomethane
Concen: 3.318 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. 0.006 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 93 Resp: 4417

Ion	Ratio	Lower	Upper
93	100		
95	80.1	65.6	98.4
174	87.6	68.2	102.2



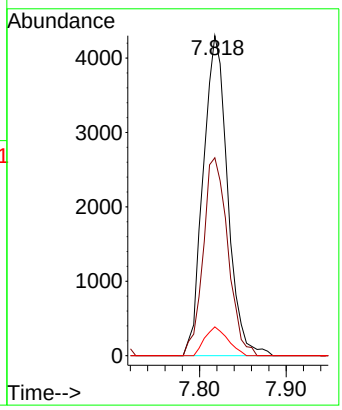


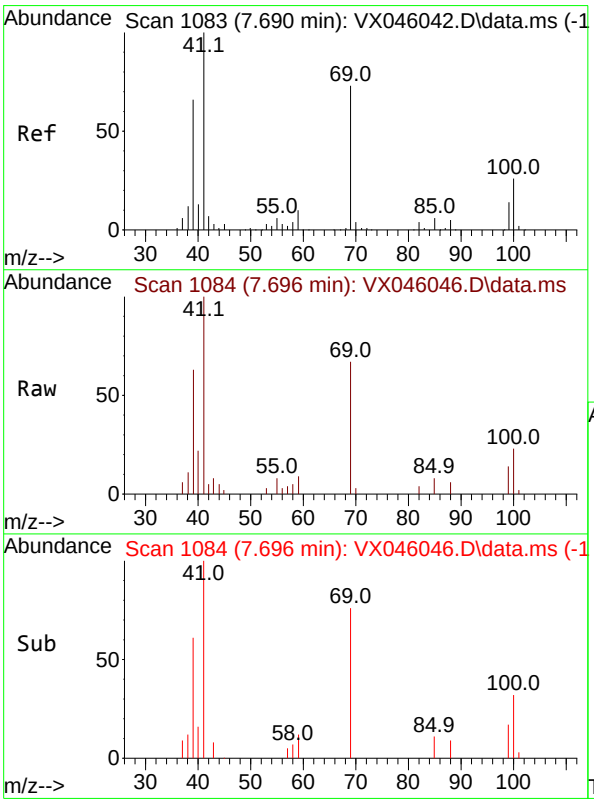
#47
Bromodichloromethane
Concen: 3.254 ug/l
RT: 7.818 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 83 Resp: 8394

Ion	Ratio	Lower	Upper
83	100		
85	61.9	50.5	75.7
127	9.0	6.5	9.7

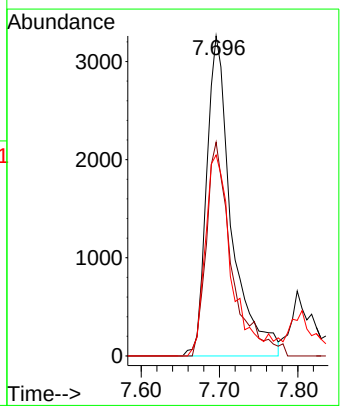


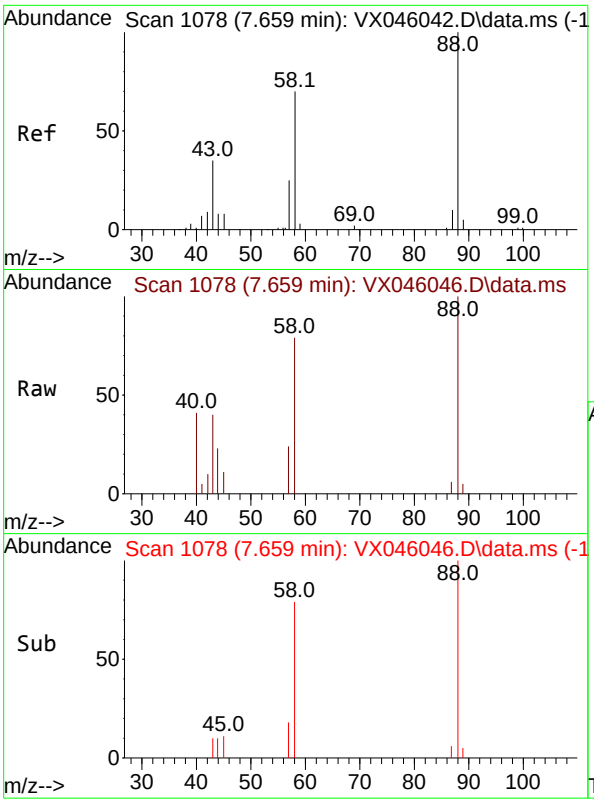


#48
Methyl methacrylate
Concen: 3.321 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. 0.006 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 41 Resp: 7171

Ion	Ratio	Lower	Upper
41	100		
69	68.4	58.5	87.7
39	65.1	51.7	77.5



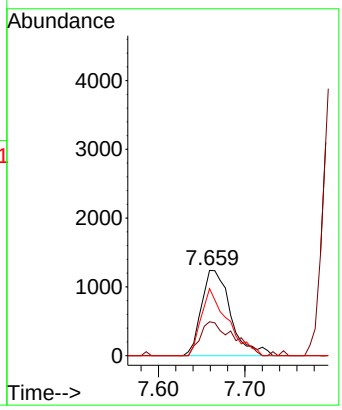


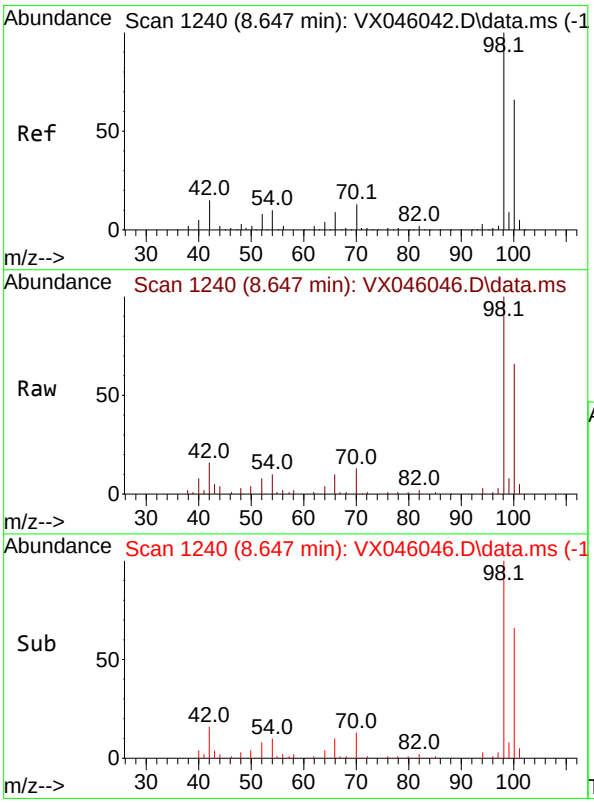
#49
1,4-Dioxane
Concen: 67.721 ug/l
RT: 7.659 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 88 Resp: 2907

Ion	Ratio	Lower	Upper
88	100		
43	45.3	33.4	50.2
58	71.0	58.6	88.0

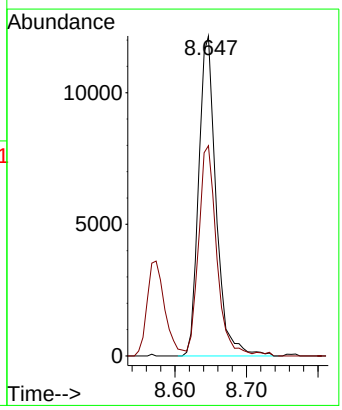


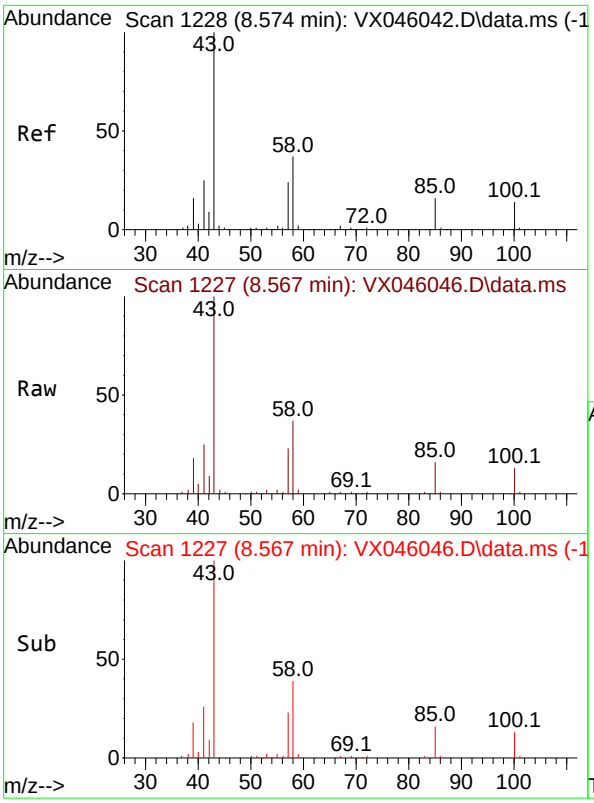


#50
Toluene-d8
Concen: 3.232 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 98 Resp: 20566

Ion	Ratio	Lower	Upper
98	100		
100	66.1	53.5	80.3



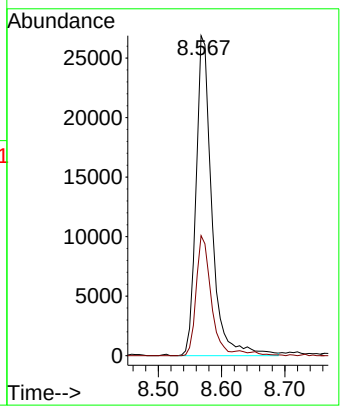


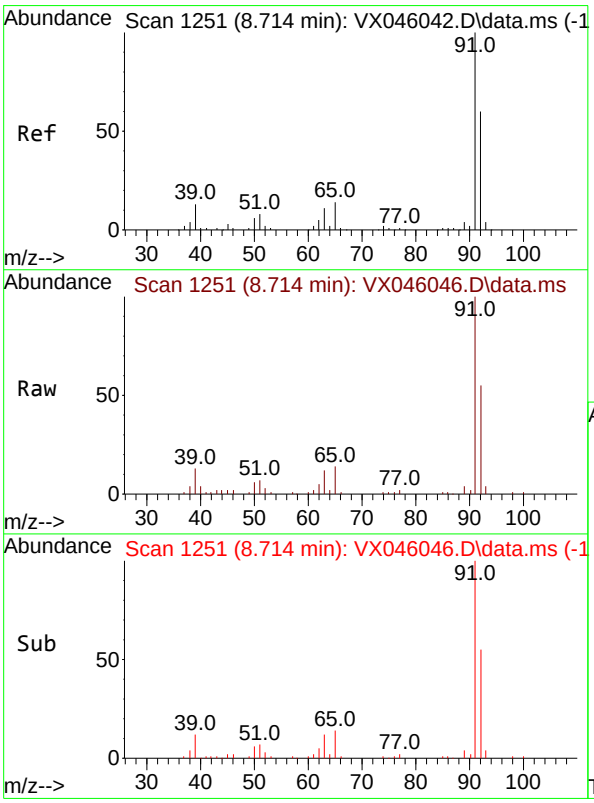
#51
4-Methyl-2-Pentanone
Concen: 16.967 ug/l
RT: 8.567 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 46794

Ion	Ratio	Lower	Upper
43	100		
58	34.8	28.9	43.3

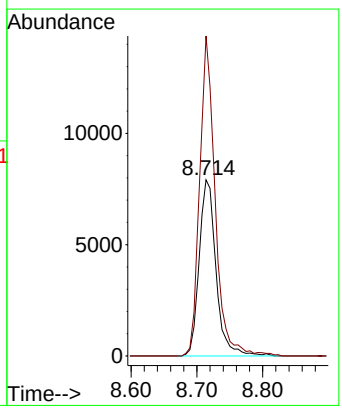


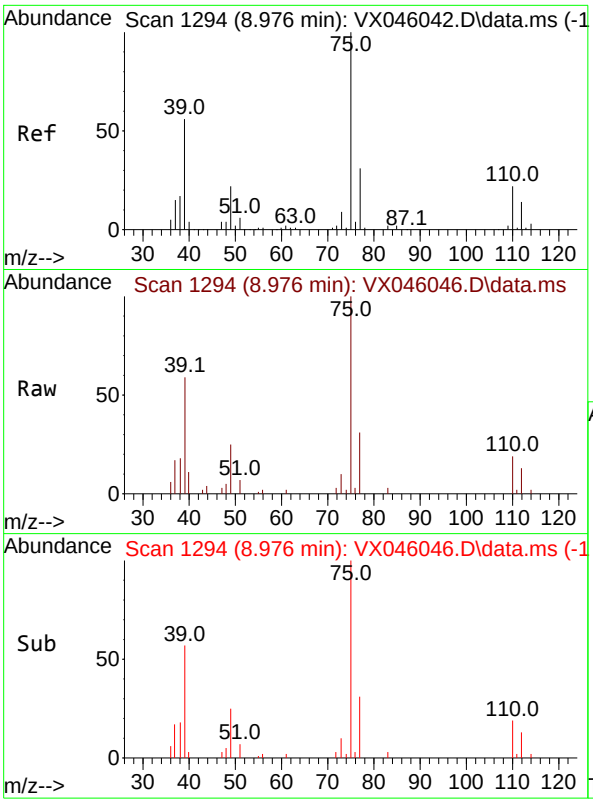


#52
Toluene
Concen: 3.505 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 92 Resp: 14126

Ion	Ratio	Lower	Upper
92	100		
91	167.2	136.6	205.0



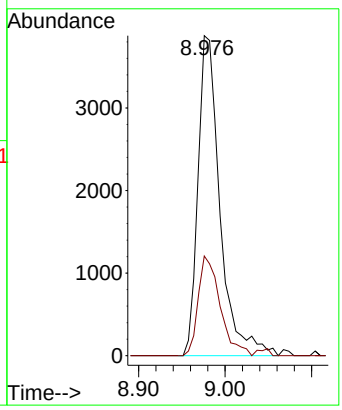


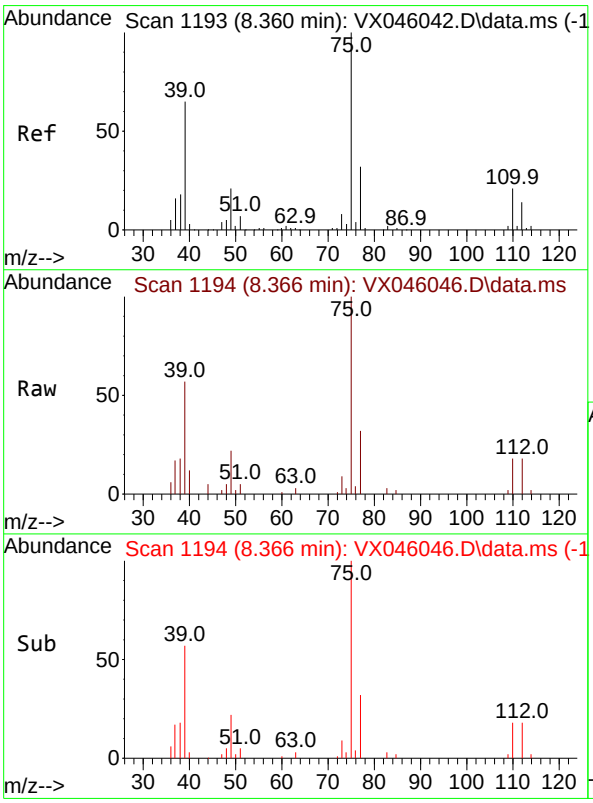
#53
t-1,3-Dichloropropene
Concen: 3.155 ug/l
RT: 8.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 75 Resp: 6834

Ion	Ratio	Lower	Upper
75	100		
77	31.1	25.0	37.6

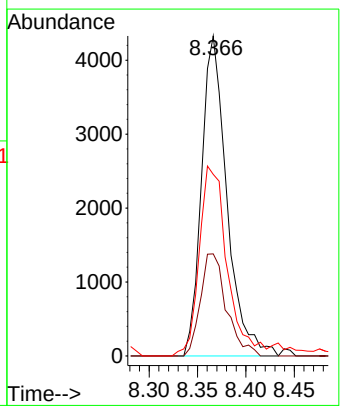


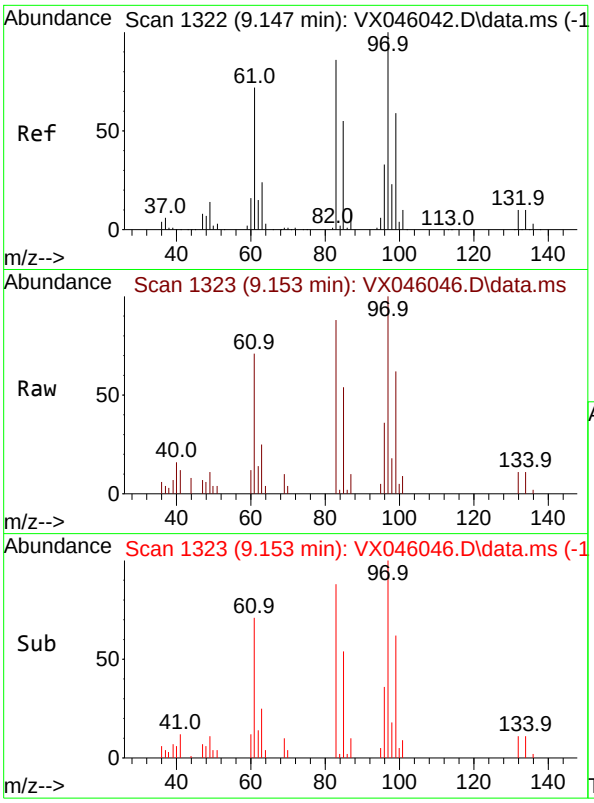


#54
cis-1,3-Dichloropropene
Concen: 3.129 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.006 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 75 Resp: 7908

Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.4	38.0
39	55.3	52.2	78.4



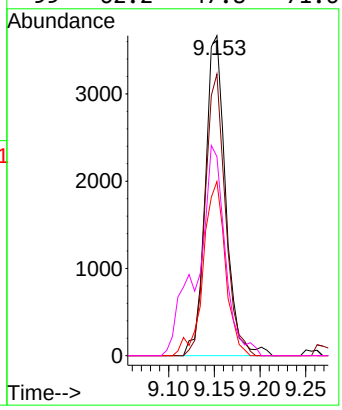


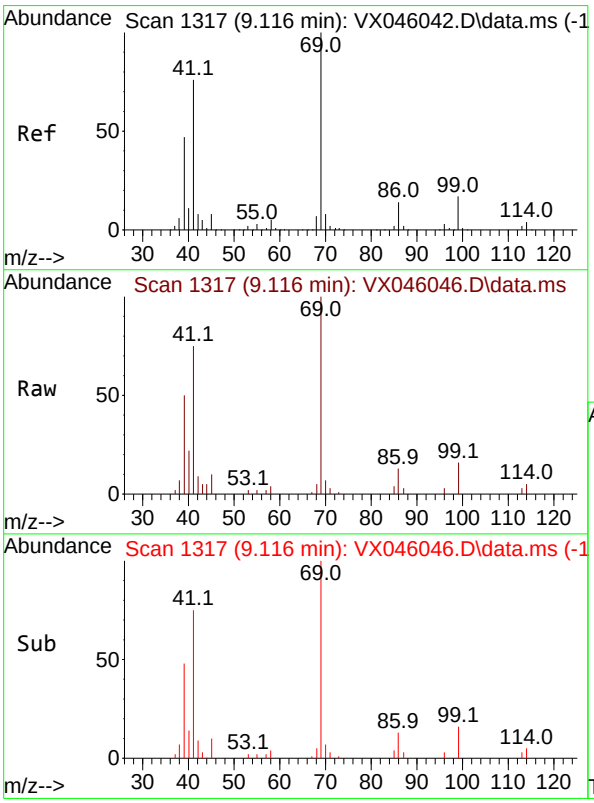
#55
1,1,2-Trichloroethane
Concen: 3.490 ug/l
RT: 9.153 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 97 Resp: 5685

Ion	Ratio	Lower	Upper
97	100		
83	88.0	69.0	103.6
85	54.4	44.3	66.5
99	62.2	47.8	71.6

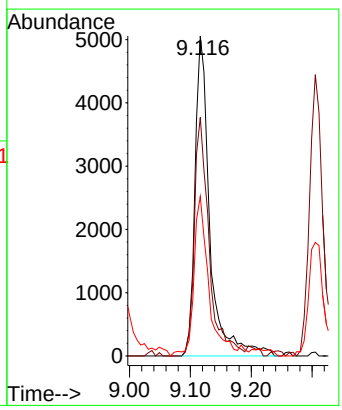


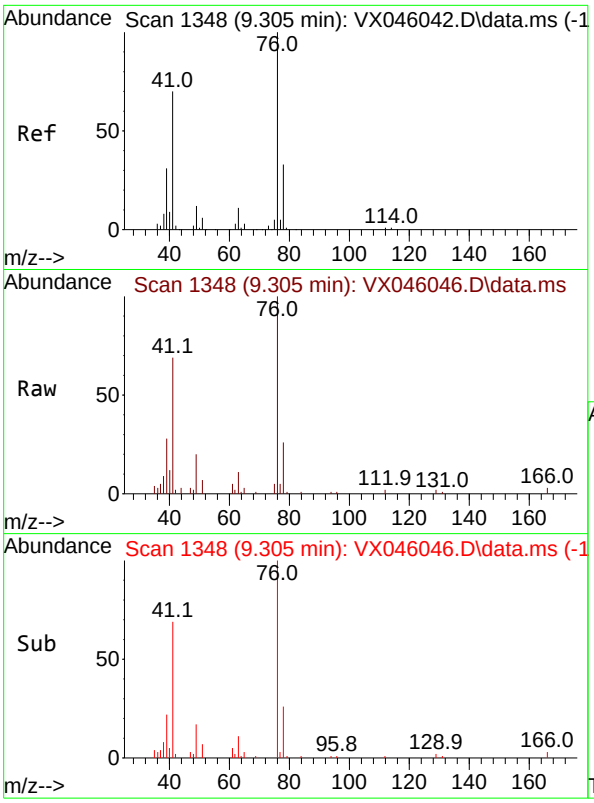


#56
Ethyl methacrylate
Concen: 3.390 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 69 Resp: 8555

Ion	Ratio	Lower	Upper
69	100		
41	73.7	60.8	91.2
39	49.3	39.0	58.6



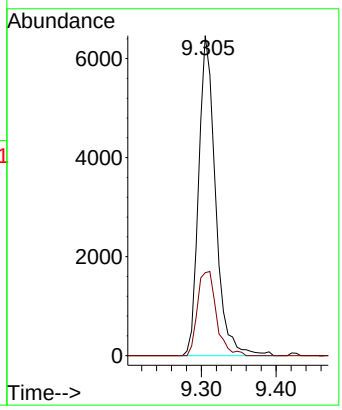


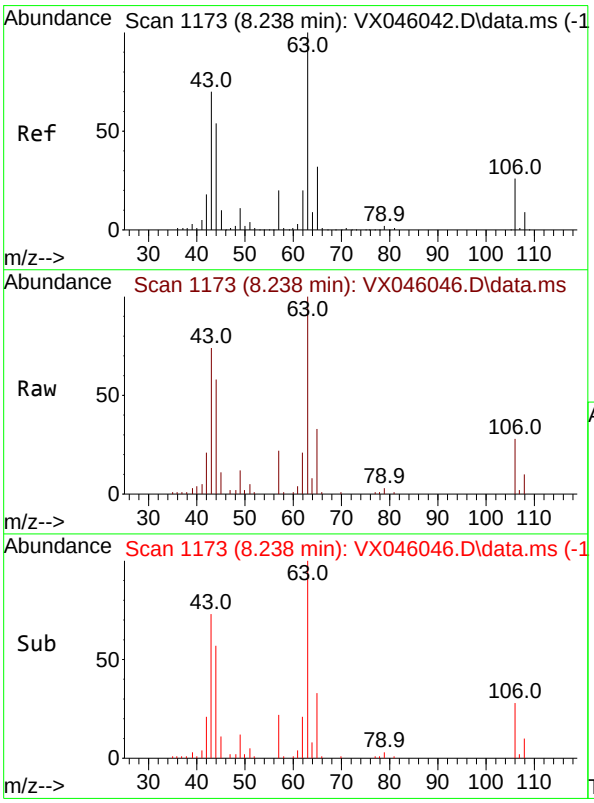
#57
1,3-Dichloropropane
Concen: 3.508 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 76 Resp: 10127

Ion	Ratio	Lower	Upper
76	100		
78	29.5	26.3	39.5

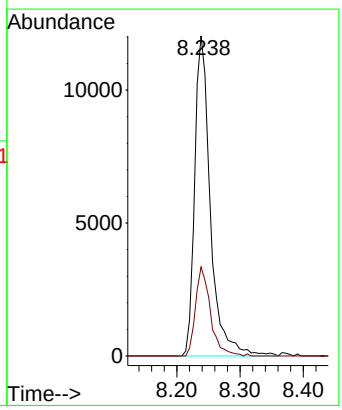


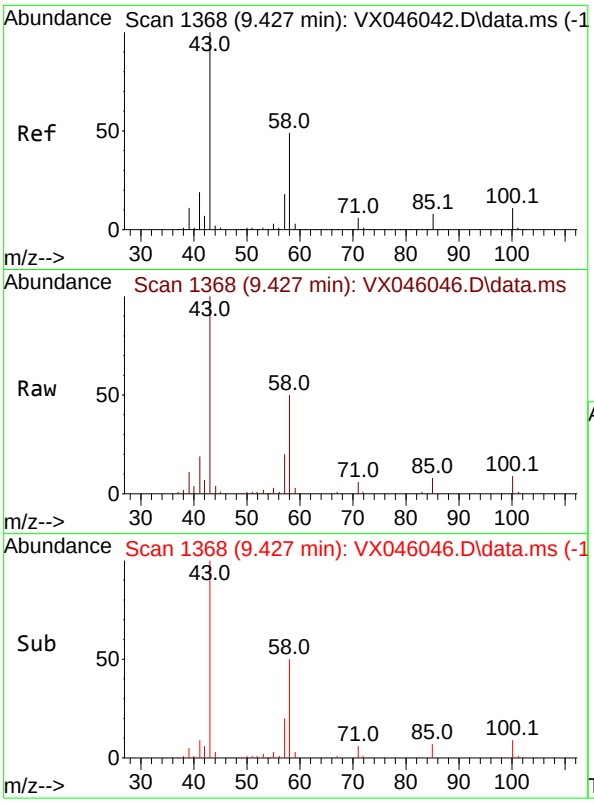


#58
2-Chloroethyl Vinyl ether
Concen: 18.346 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 63 Resp: 20809

Ion	Ratio	Lower	Upper
63	100		
106	26.4	21.5	32.3



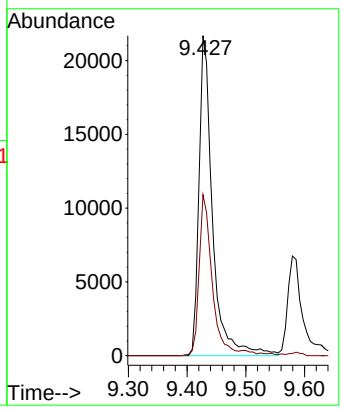


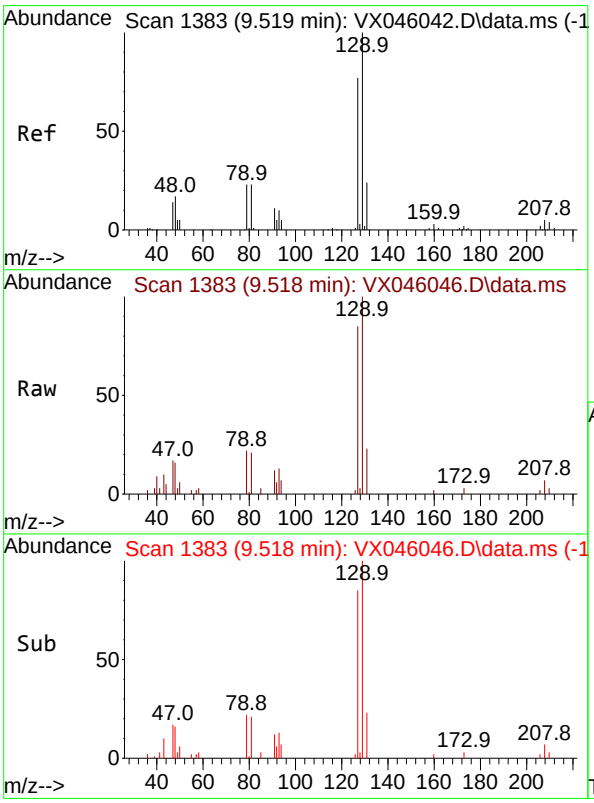
#59
2-Hexanone
Concen: 16.651 ug/l
RT: 9.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 34853

Ion	Ratio	Lower	Upper
43	100		
58	47.5	24.9	74.6

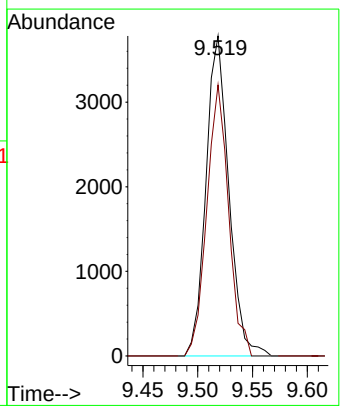


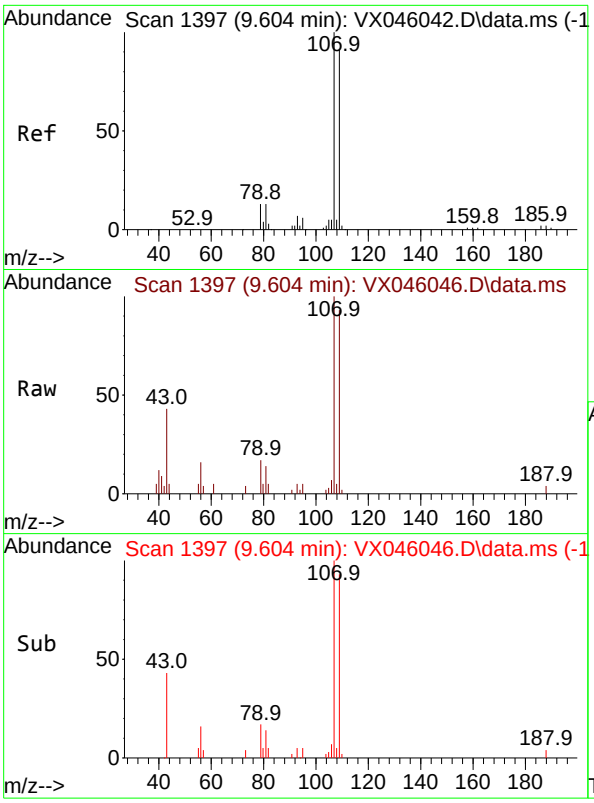


#60
Dibromochloromethane
Concen: 3.102 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion:129 Resp: 5500

Ion	Ratio	Lower	Upper
129	100		
127	80.4	39.3	117.8



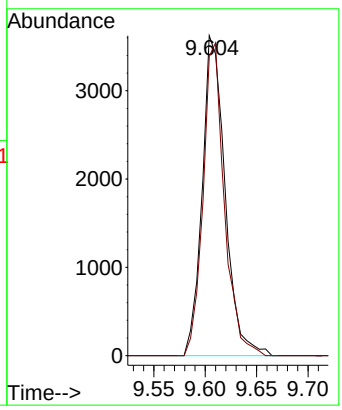


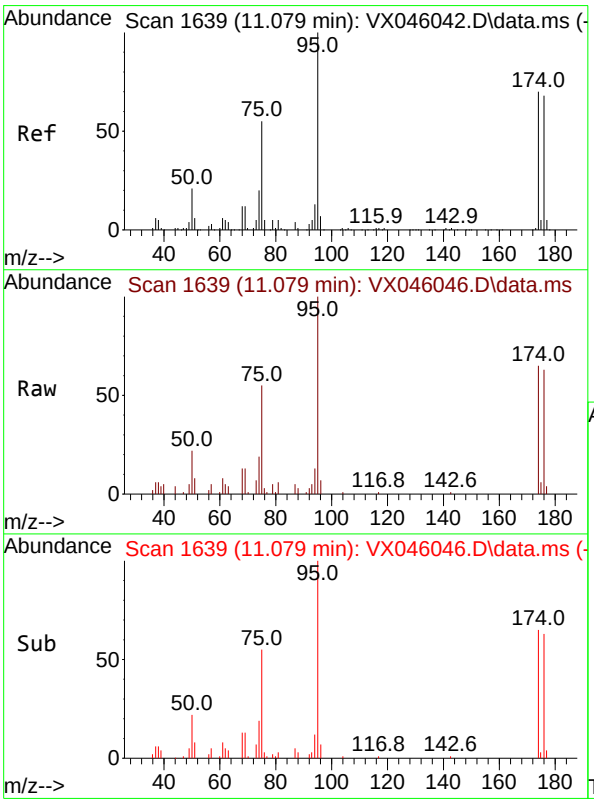
#61
1,2-Dibromoethane
Concen: 3.356 ug/l
RT: 9.604 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:107 Resp: 5614

Ion	Ratio	Lower	Upper
107	100		
109	91.0	73.3	109.9

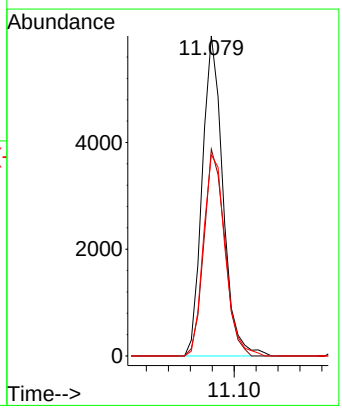


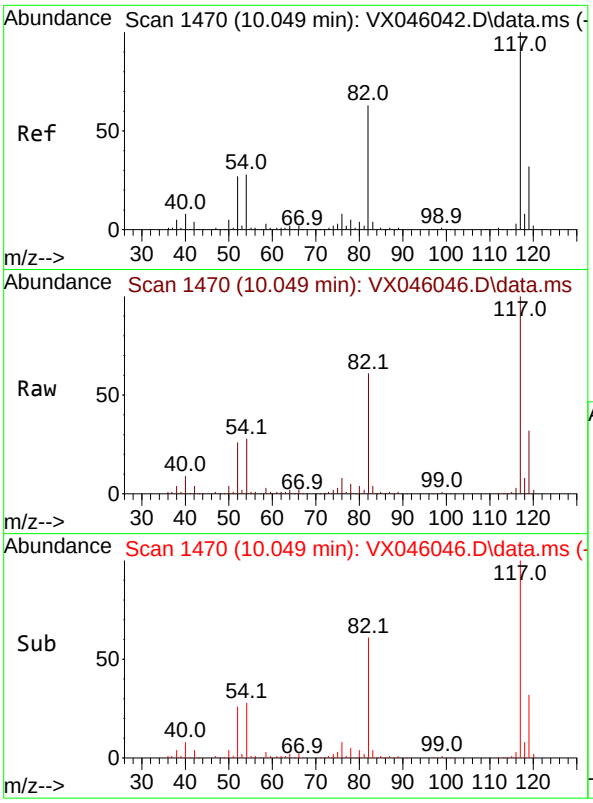


#62
4-Bromofluorobenzene
Concen: 3.378 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 95 Resp: 7822

Ion	Ratio	Lower	Upper
95	100		
174	65.0	0.0	135.8
176	66.6	0.0	131.4



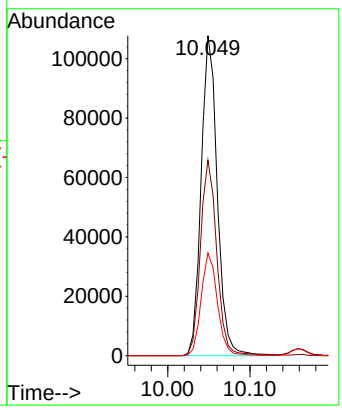


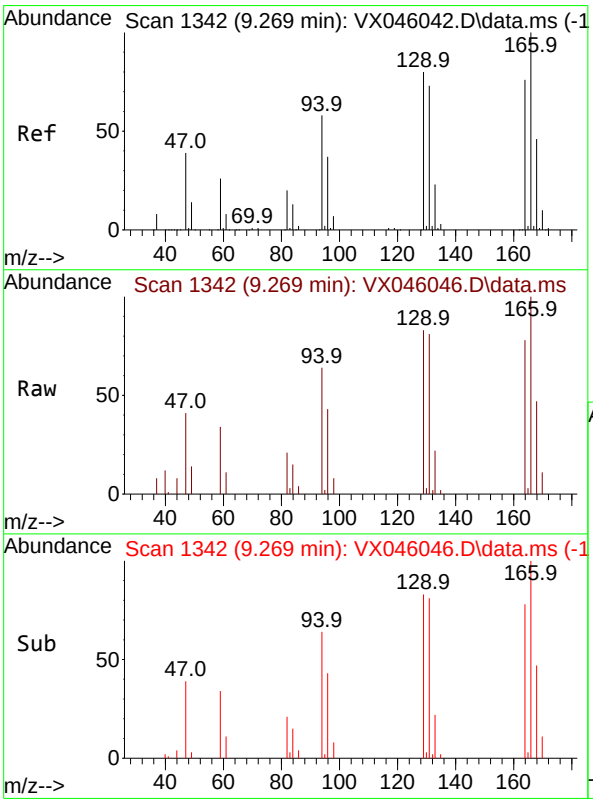
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:117 Resp: 147167

Ion	Ratio	Lower	Upper
117	100		
82	61.1	50.6	76.0
119	32.1	25.8	38.6

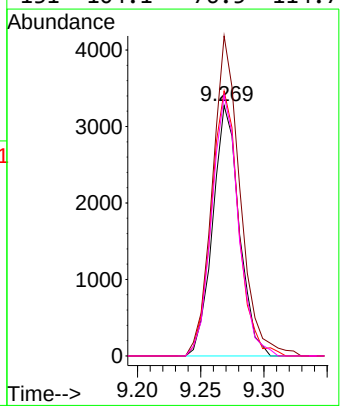


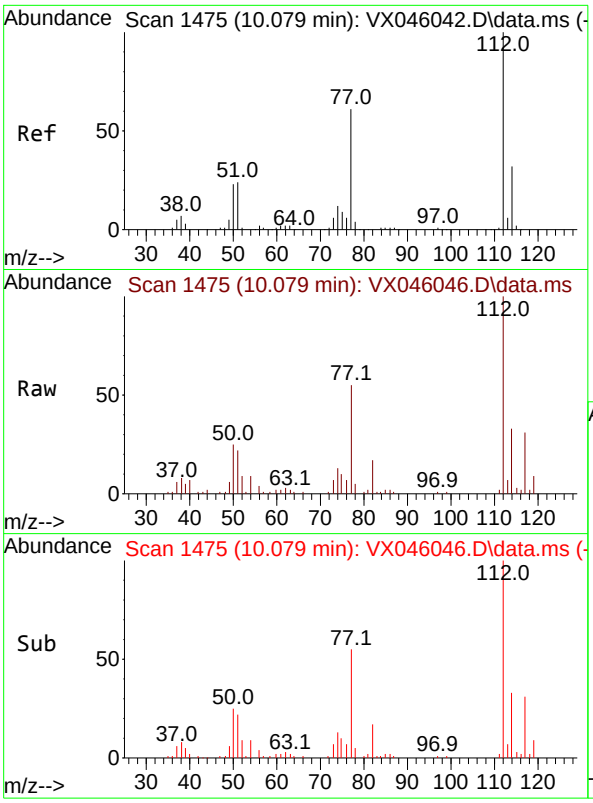


#64
Tetrachloroethene
Concen: 3.162 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion:164 Resp: 4752

Ion	Ratio	Lower	Upper
164	100		
166	127.8	105.0	157.6
129	105.8	83.5	125.3
131	104.1	76.5	114.7



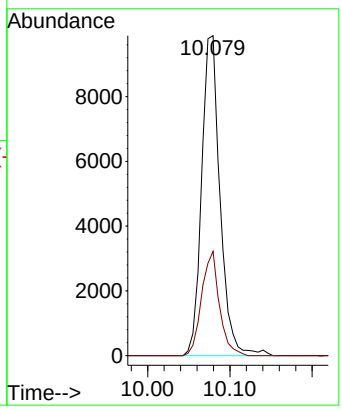


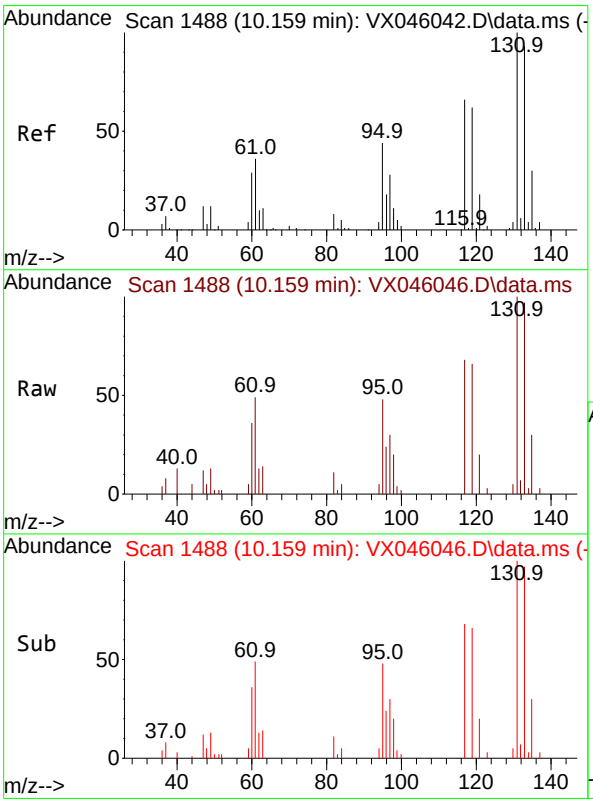
#65
Chlorobenzene
Concen: 3.399 ug/l
RT: 10.079 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:112 Resp: 15391

Ion	Ratio	Lower	Upper
112	100		
114	32.6	25.4	38.2

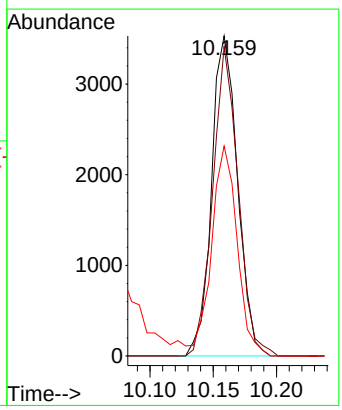


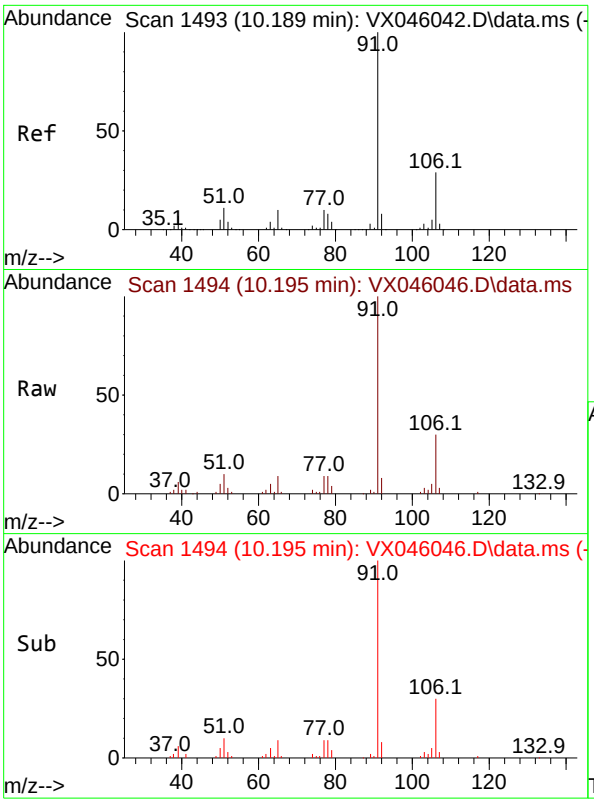


#66
1,1,1,2-Tetrachloroethane
Concen: 3.326 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion:131 Resp: 5024

Ion	Ratio	Lower	Upper
131	100		
133	95.0	47.3	141.9
119	64.8	31.6	95.0



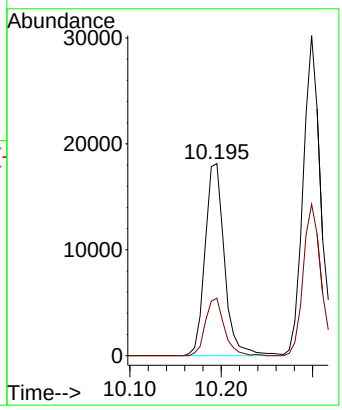


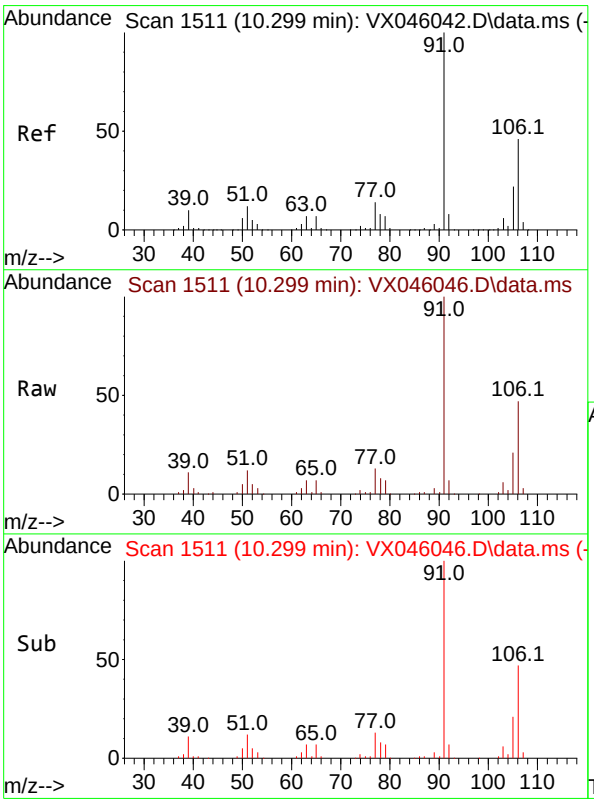
#67
Ethyl Benzene
Concen: 3.463 ug/l
RT: 10.195 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 91 Resp: 26732

Ion	Ratio	Lower	Upper
91	100		
106	29.9	23.4	35.2

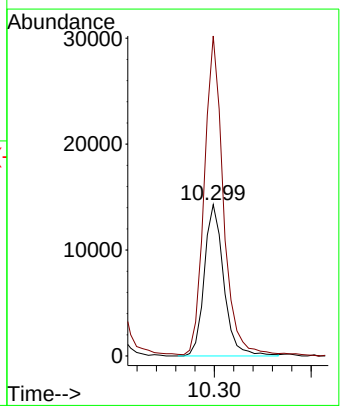


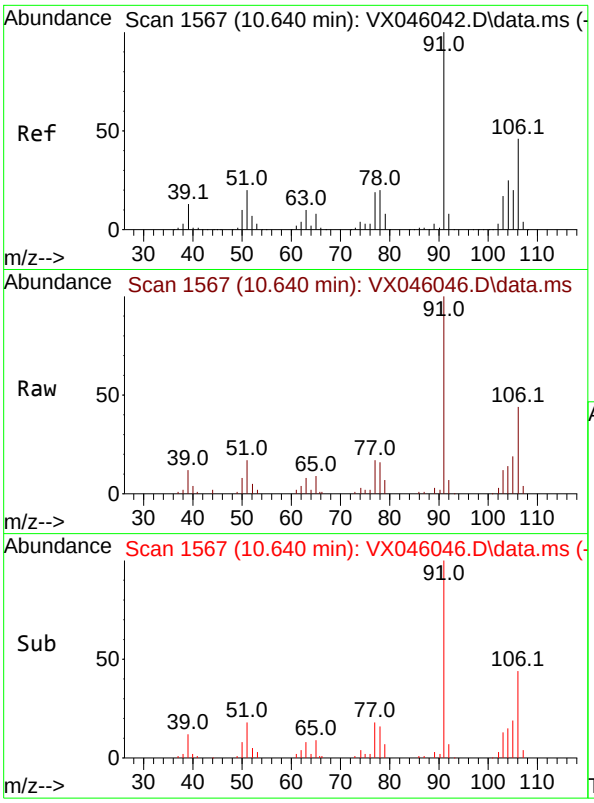


#68
m/p-Xylenes
Concen: 7.156 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion:106 Resp: 19957

Ion	Ratio	Lower	Upper
106	100		
91	210.1	171.2	256.8



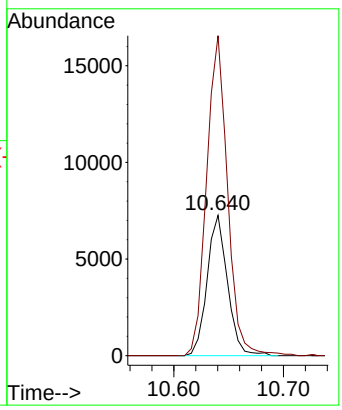


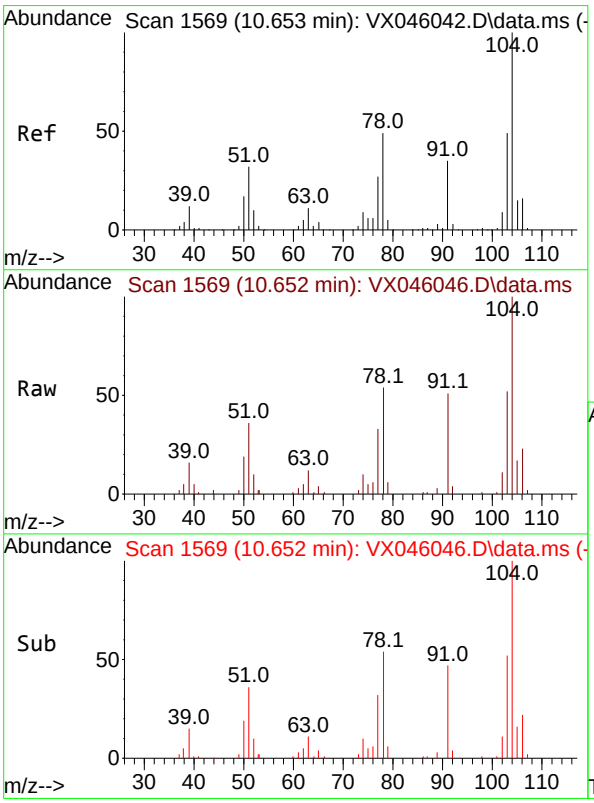
#69
o-Xylene
Concen: 3.343 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:106 Resp: 9398

Ion	Ratio	Lower	Upper
106	100		
91	233.6	112.7	338.1

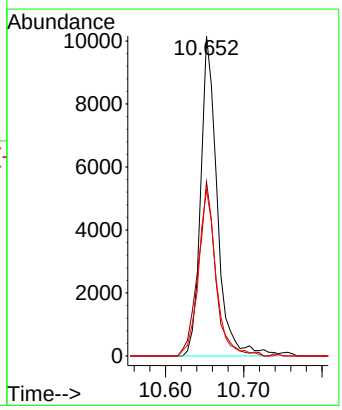


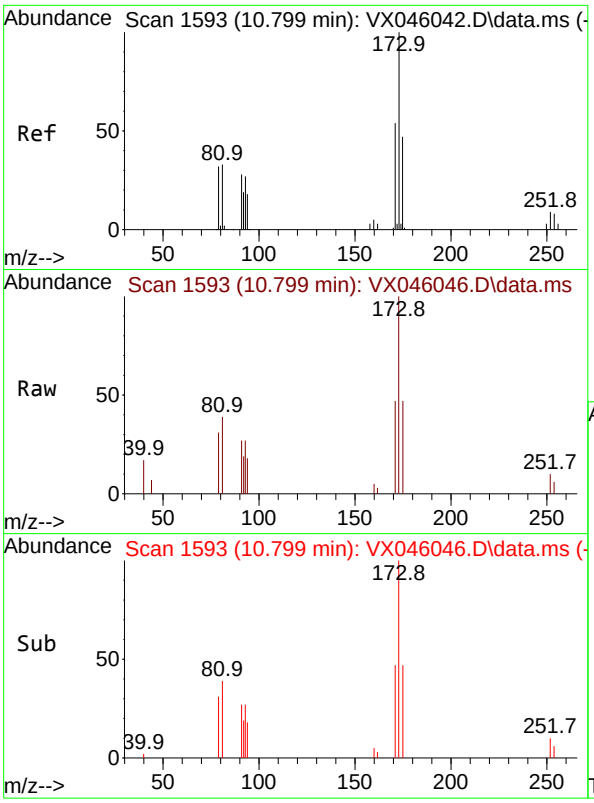


#70
Styrene
Concen: 3.312 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion:104 Resp: 14900

Ion	Ratio	Lower	Upper
104	100		
78	57.9	45.7	68.5
103	55.6	43.7	65.5



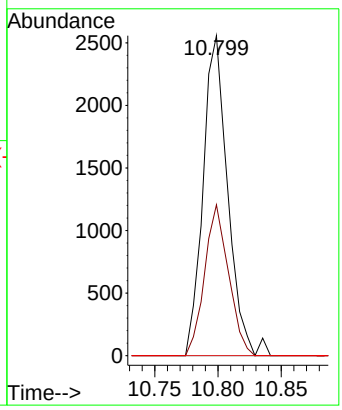


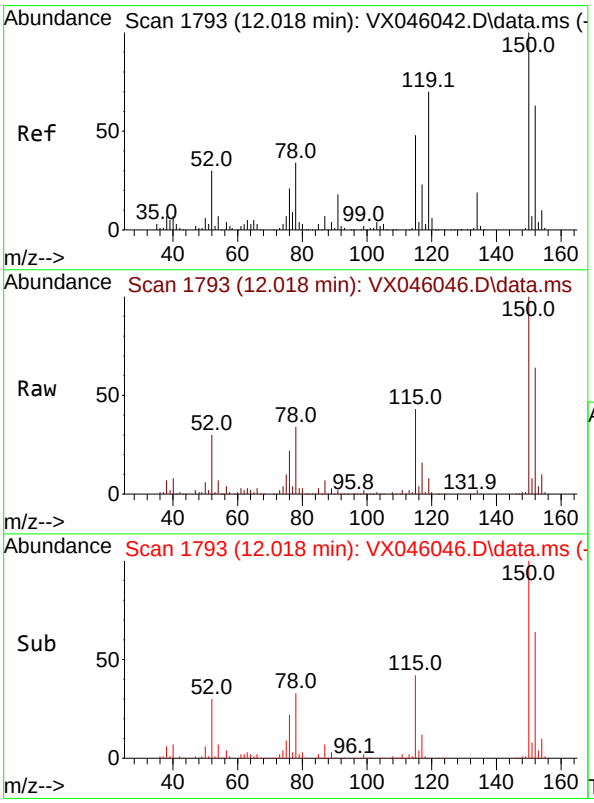
#71
Bromoform
Concen: 3.059 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:173 Resp: 3470

Ion	Ratio	Lower	Upper
173	100		
175	45.8	23.4	70.0
254	0.0	0.0	0.0

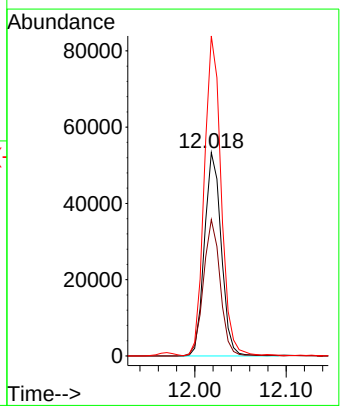


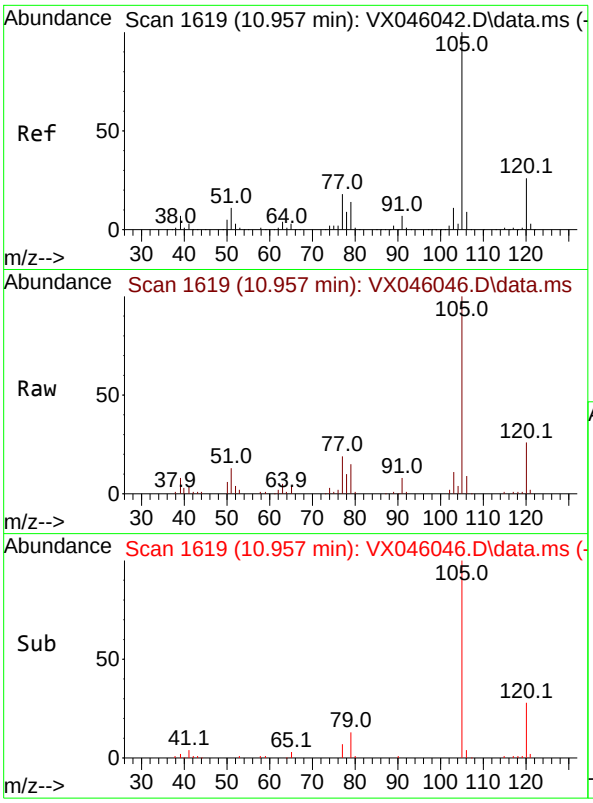


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion:152 Resp: 67939

Ion	Ratio	Lower	Upper
152	100		
115	66.8	46.9	140.7
150	157.5	0.0	351.0



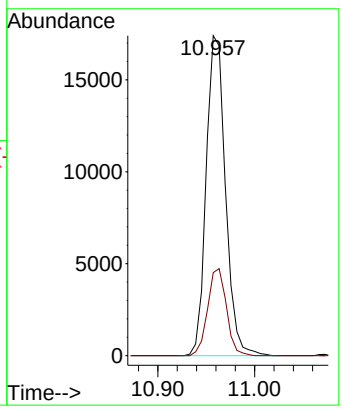


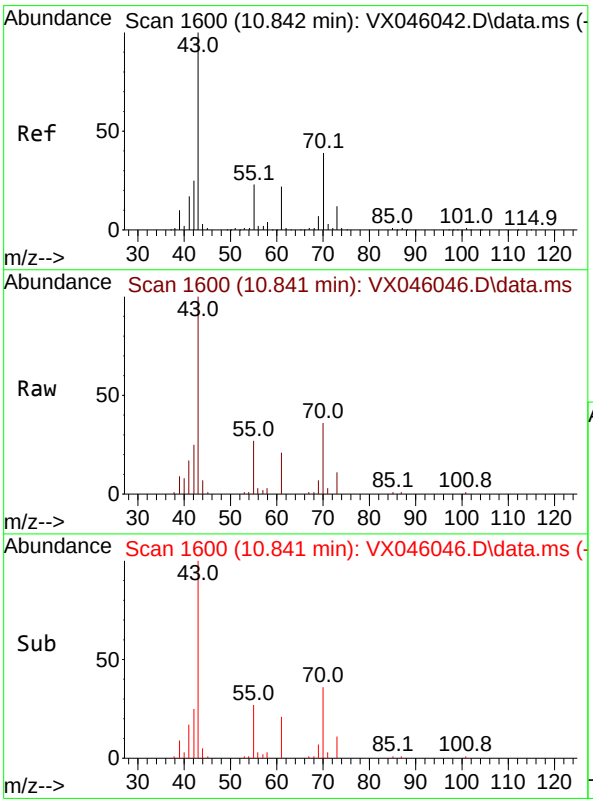
#73
Isopropylbenzene
Concen: 3.266 ug/l
RT: 10.957 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:105 Resp: 24201

Ion	Ratio	Lower	Upper
105	100		
120	26.4	12.8	38.4

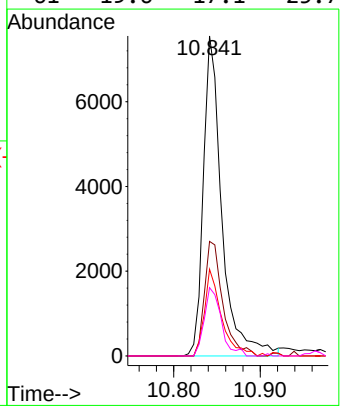


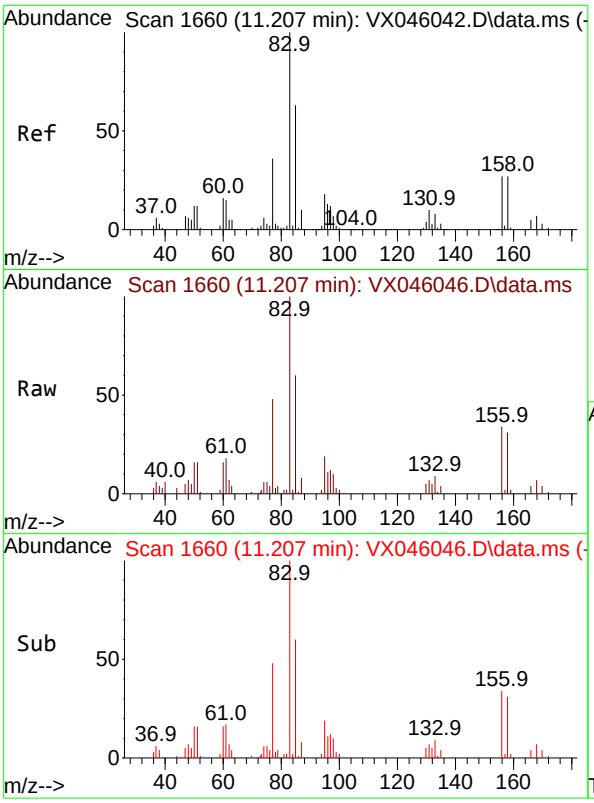


#74
N-amyl acetate
Concen: 3.038 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 43 Resp: 11224

Ion	Ratio	Lower	Upper
43	100		
70	35.4	30.9	46.3
55	25.0	18.7	28.1
61	19.6	17.1	25.7



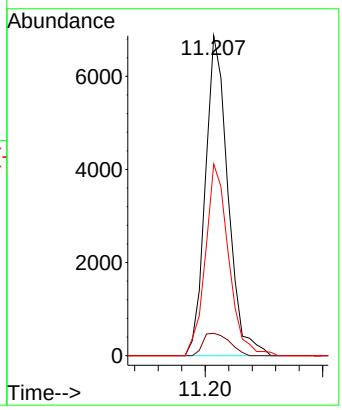


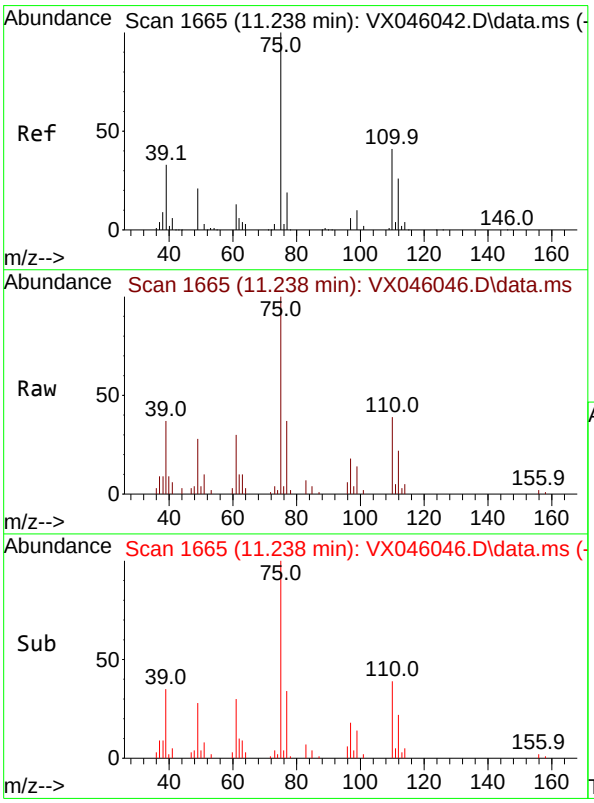
#75
1,1,2,2-Tetrachloroethane
Concen: 3.479 ug/l
RT: 11.207 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 83 Resp: 9170

Ion	Ratio	Lower	Upper
83	100		
131	8.3	5.0	14.9
85	61.7	31.9	95.7

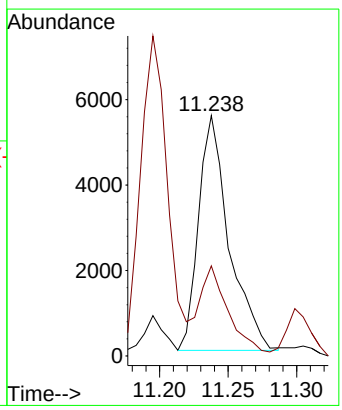


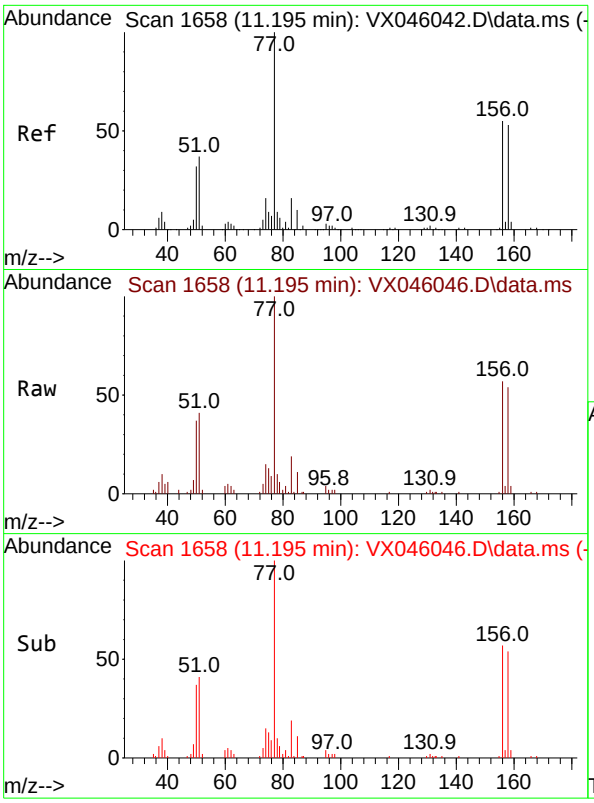


#76
1,2,3-Trichloropropane
Concen: 3.018 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 75 Resp: 8548

Ion	Ratio	Lower	Upper
75	100		
77	37.7	20.5	61.5



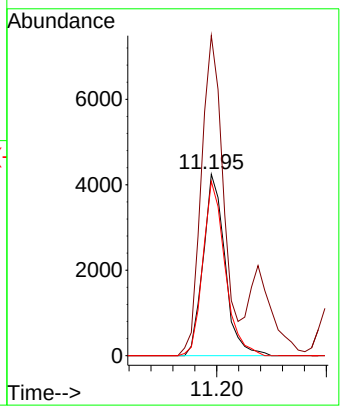


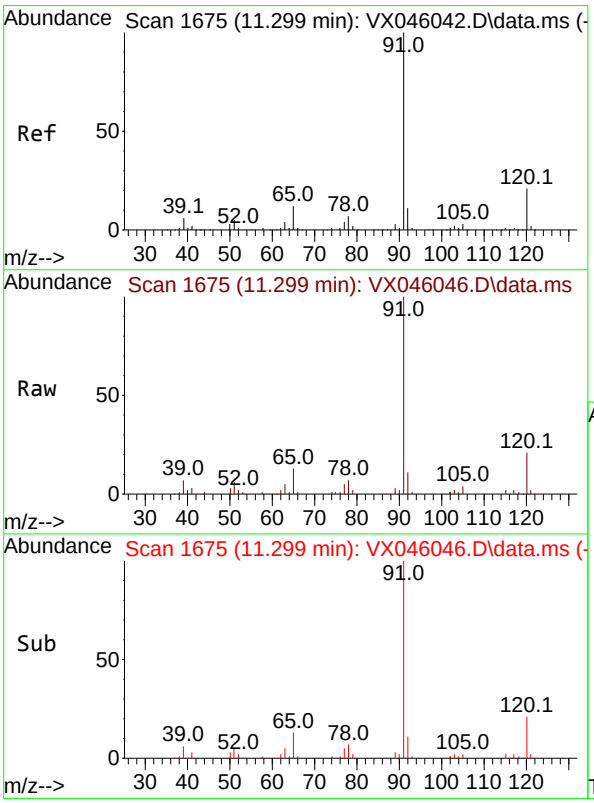
#77
Bromobenzene
Concen: 3.417 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:156 Resp: 5857

Ion	Ratio	Lower	Upper
156	100		
77	177.0	92.8	278.3
158	97.7	48.8	146.3

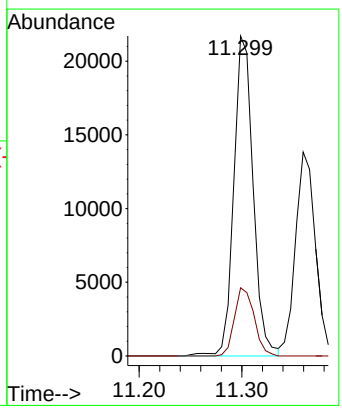


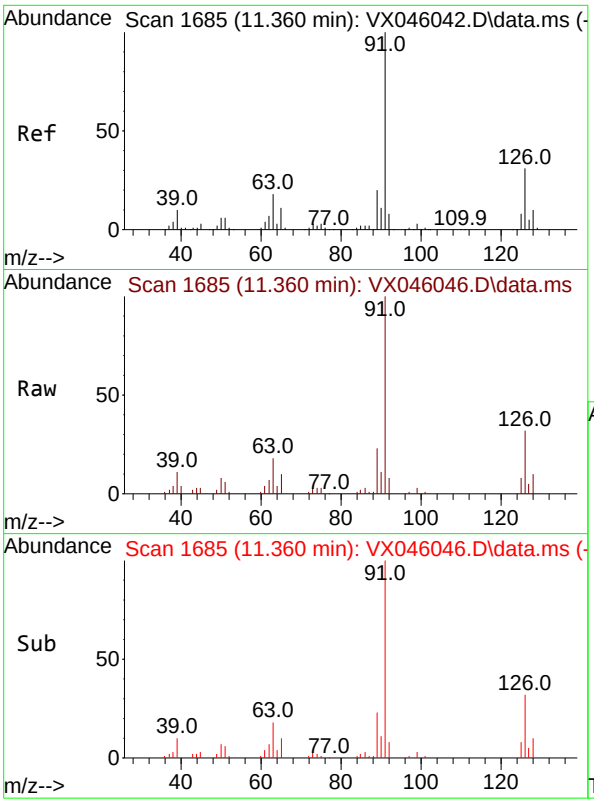


#78
n-propylbenzene
Concen: 3.424 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 91 Resp: 28436

Ion	Ratio	Lower	Upper
91	100		
120	21.7	10.8	32.4



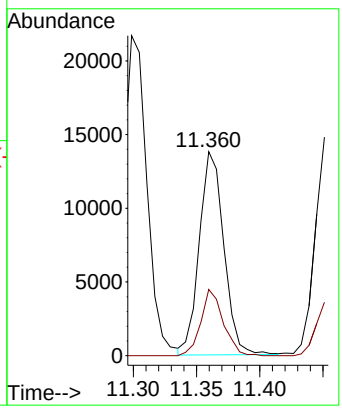


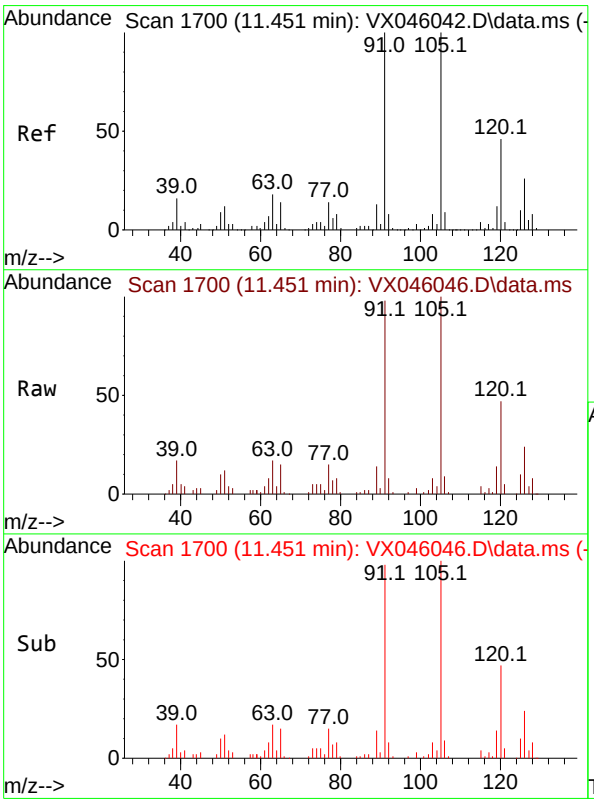
#79
2-Chlorotoluene
Concen: 3.336 ug/l
RT: 11.360 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 91 Resp: 18672

Ion	Ratio	Lower	Upper
91	100		
126	29.7	15.6	46.7

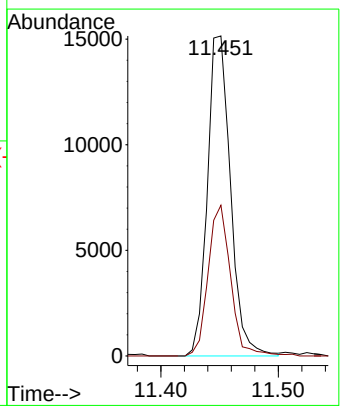


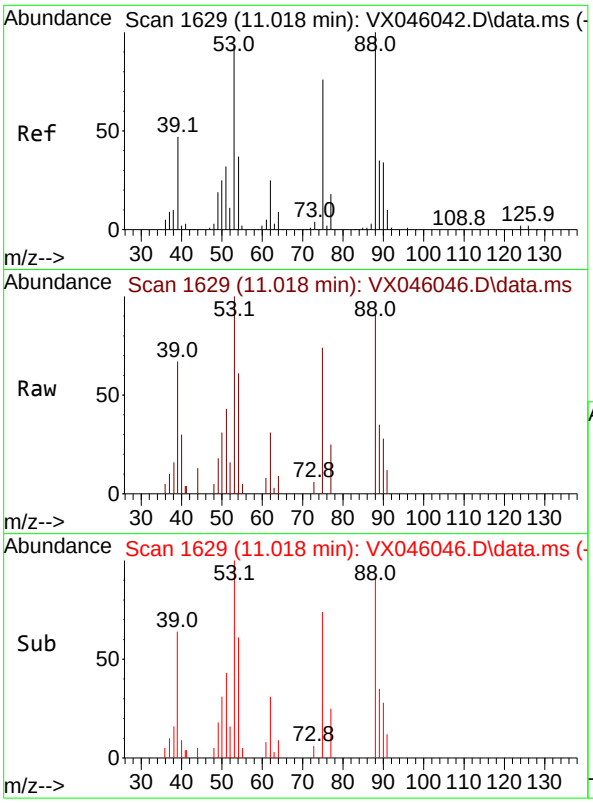


#80
1,3,5-Trimethylbenzene
Concen: 3.372 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion:105 Resp: 20742

Ion	Ratio	Lower	Upper
105	100		
120	45.9	23.1	69.2



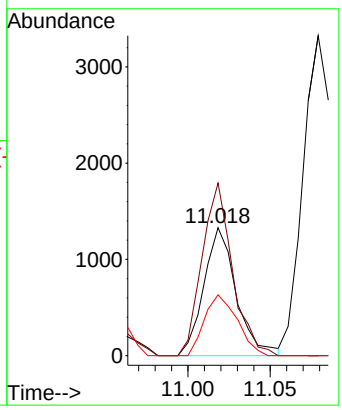


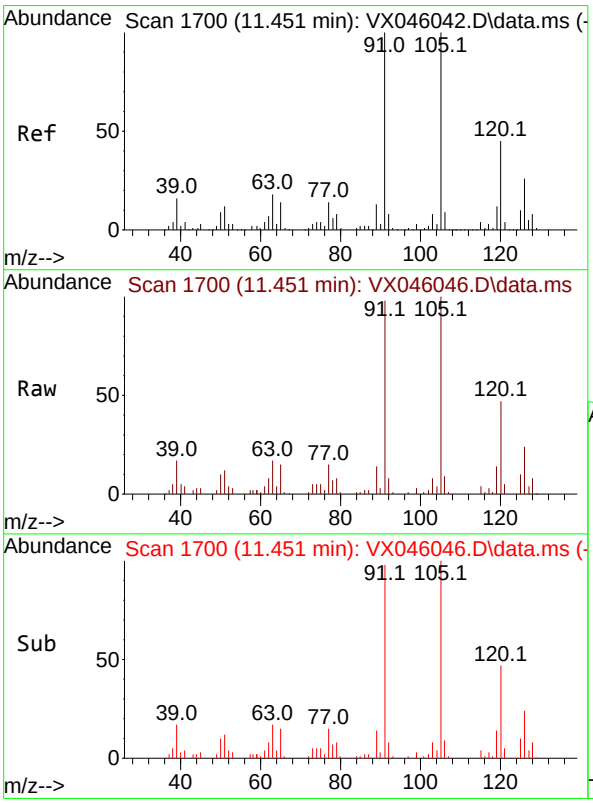
#81
trans-1,4-Dichloro-2-butene
Concen: 2.686 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 75 Resp: 1828

Ion	Ratio	Lower	Upper
75	100		
53	125.8	100.5	150.7
89	47.9	37.0	55.6

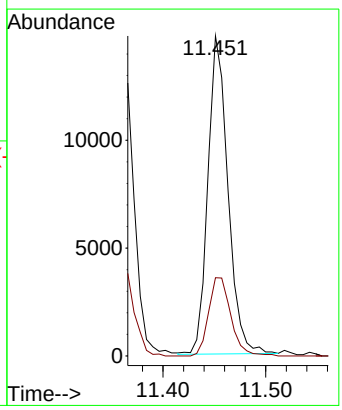


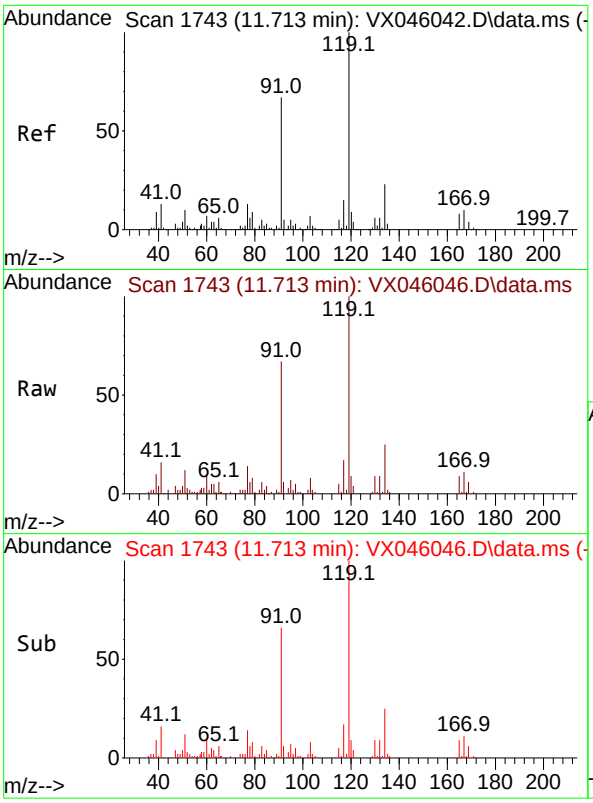


#82
4-Chlorotoluene
Concen: 3.245 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 91 Resp: 19966

Ion	Ratio	Lower	Upper
91	100		
126	27.3	13.3	39.8



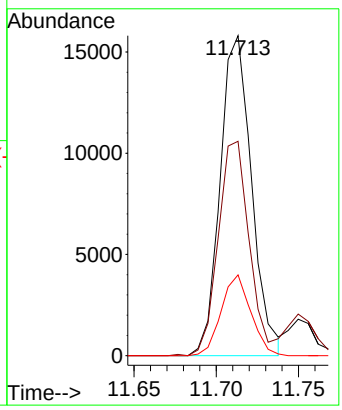


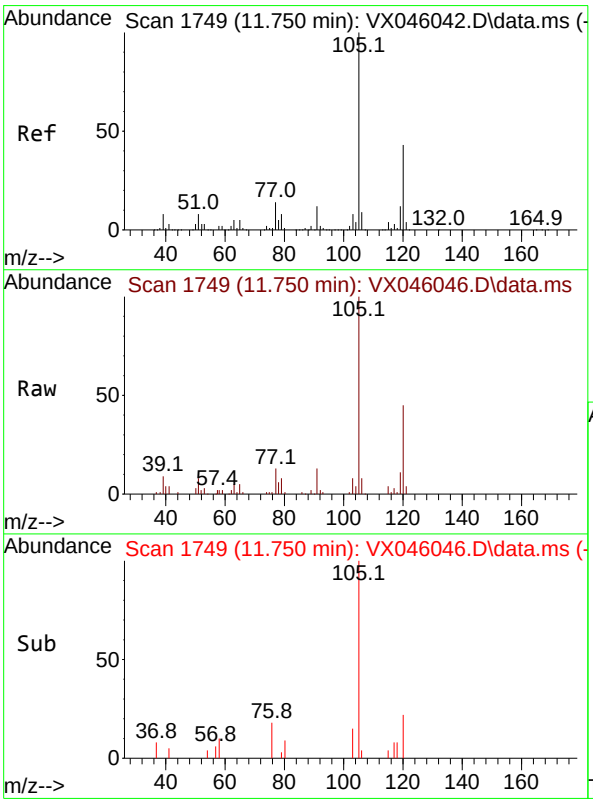
#83
tert-Butylbenzene
Concen: 3.484 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:119 Resp: 21049

Ion	Ratio	Lower	Upper
119	100		
91	67.0	32.9	98.7
134	23.8	11.4	34.1

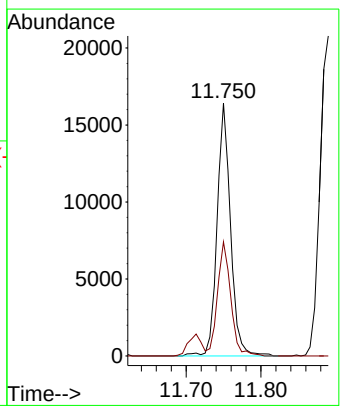


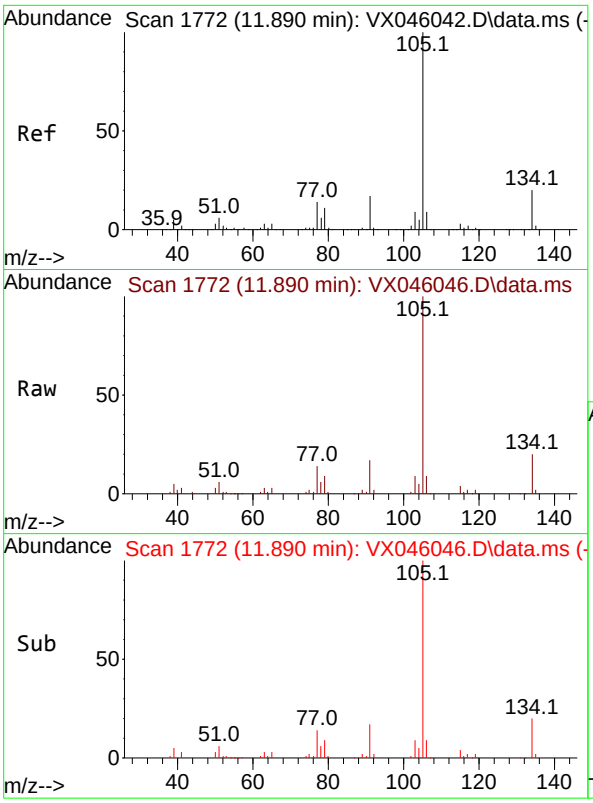


#84
1,2,4-Trimethylbenzene
Concen: 3.355 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion:105 Resp: 20613

Ion	Ratio	Lower	Upper
105	100		
120	44.5	21.2	63.6



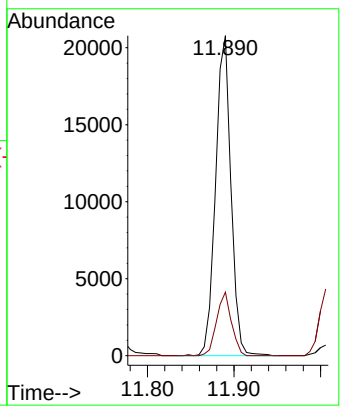


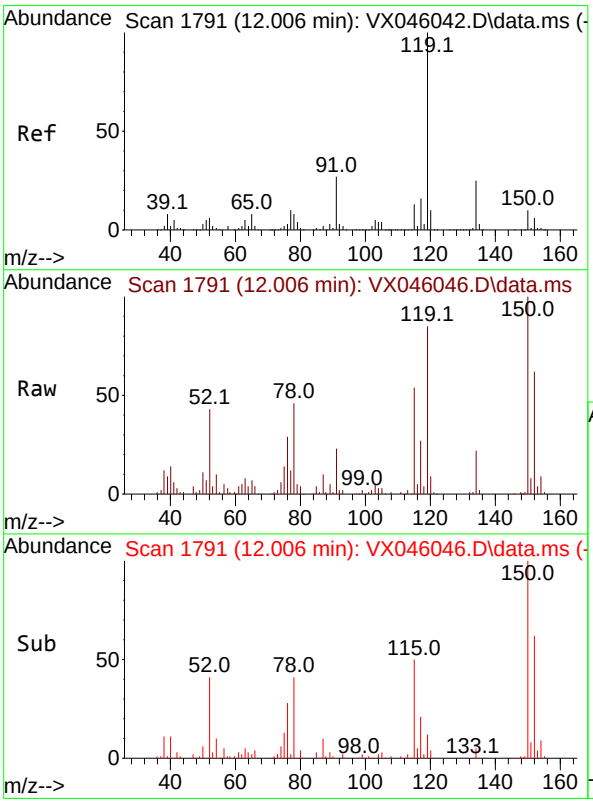
#85
sec-Butylbenzene
Concen: 3.412 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:105 Resp: 25590

Ion	Ratio	Lower	Upper
105	100		
134	19.1	9.7	29.1

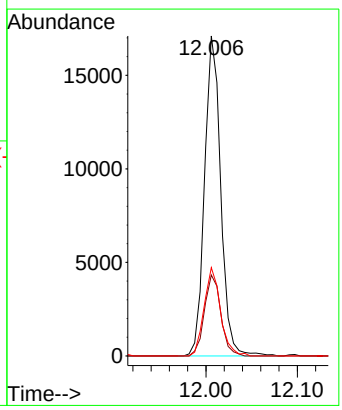


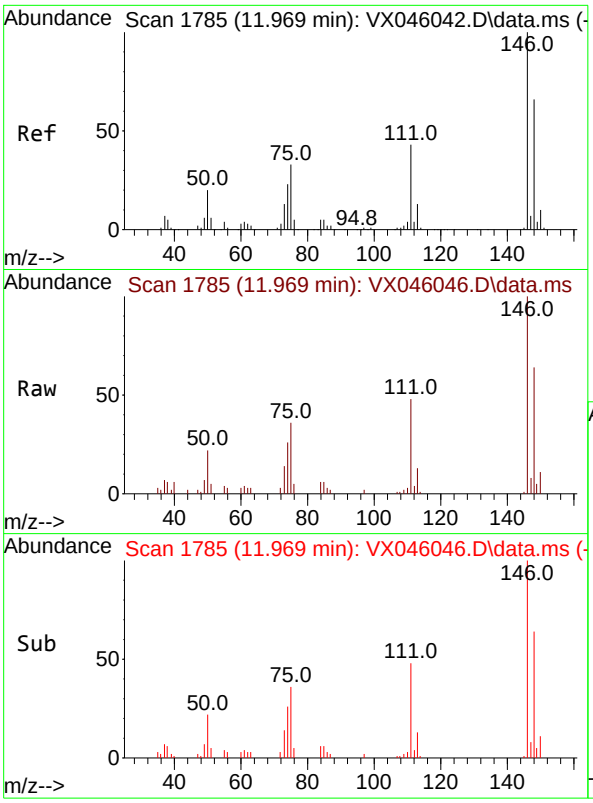


#86
p-Isopropyltoluene
Concen: 3.460 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion:119 Resp: 20955

Ion	Ratio	Lower	Upper
119	100		
134	25.6	12.5	37.5
91	28.0	13.8	41.4



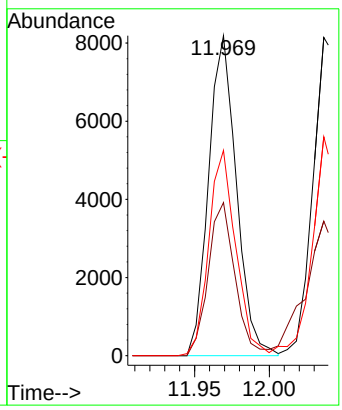


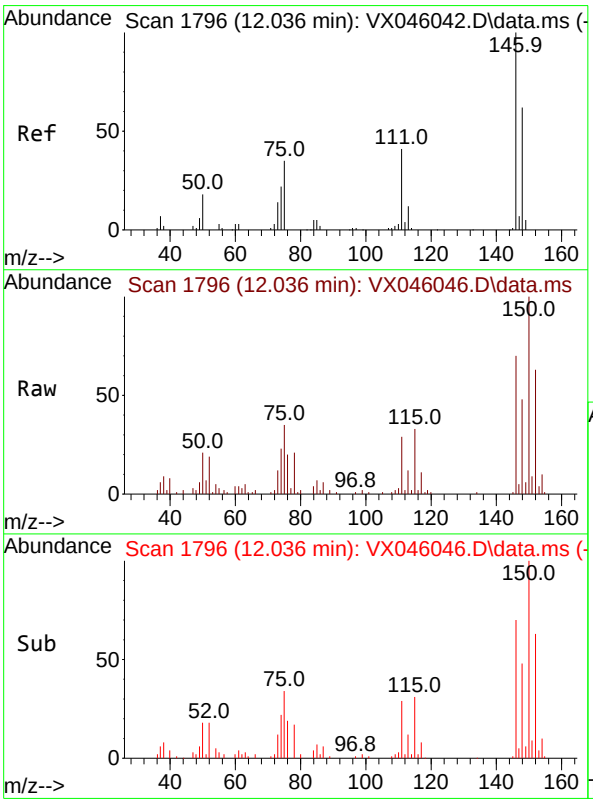
#87
1,3-Dichlorobenzene
Concen: 3.315 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:146 Resp: 10585

Ion	Ratio	Lower	Upper
146	100		
111	46.2	22.1	66.3
148	62.4	32.1	96.5

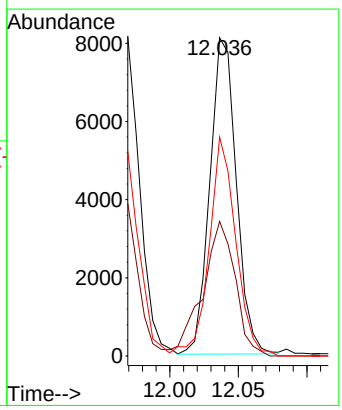


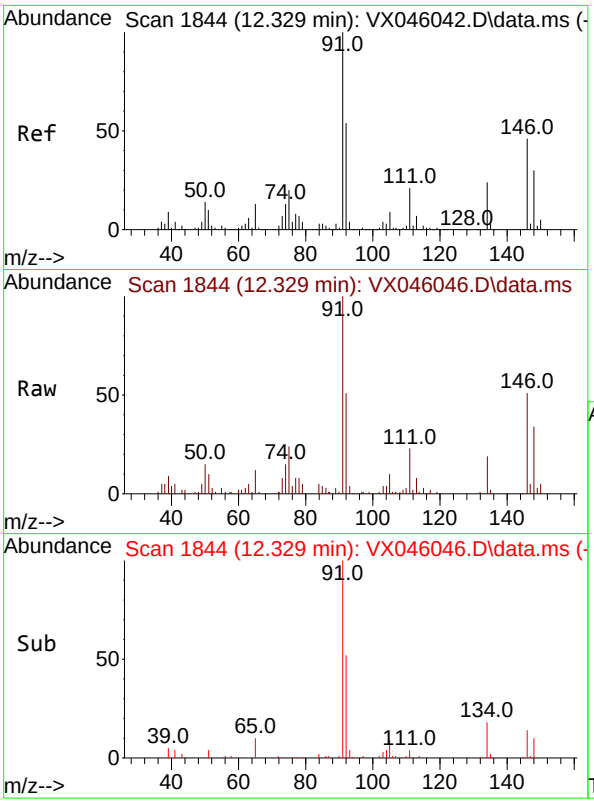


#88
1,4-Dichlorobenzene
Concen: 3.486 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion:146 Resp: 10908

Ion	Ratio	Lower	Upper
146	100		
111	52.1	21.3	63.9
148	69.4	31.9	95.5



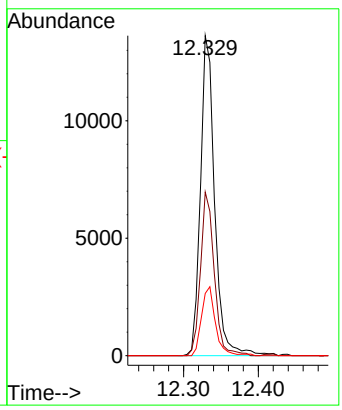


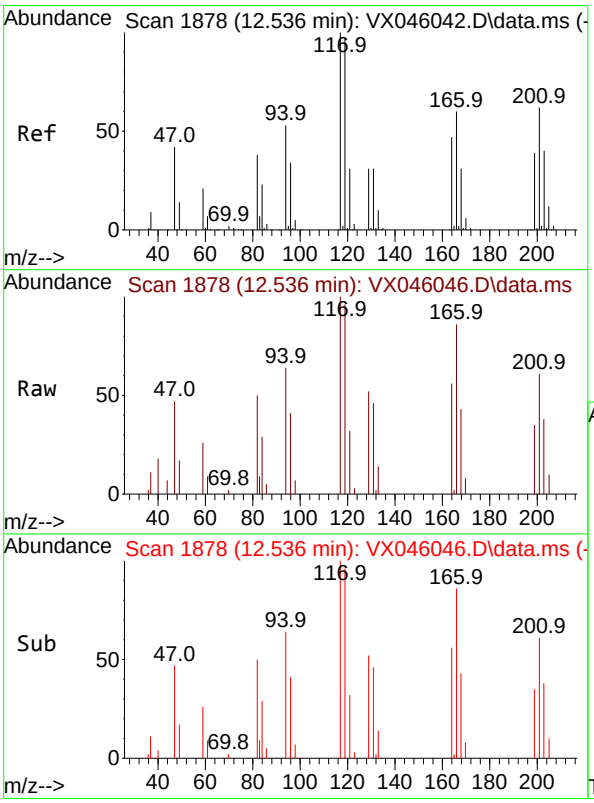
#89
n-Butylbenzene
Concen: 3.419 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 91 Resp: 18004

Ion	Ratio	Lower	Upper
91	100		
92	49.5	26.9	80.7
134	21.2	11.8	35.3

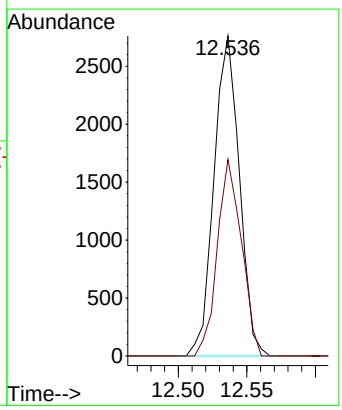


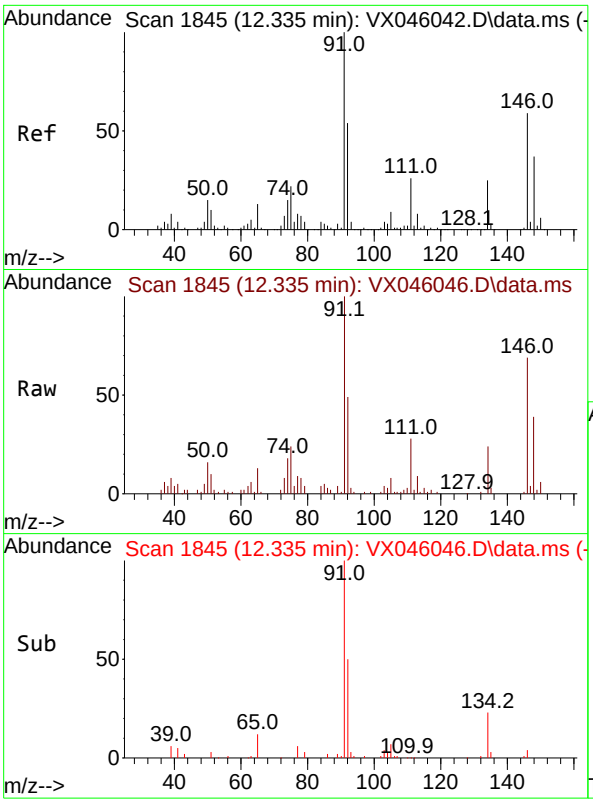


#90
Hexachloroethane
Concen: 3.153 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion:117 Resp: 3553

Ion	Ratio	Lower	Upper
117	100		
201	58.5	31.6	94.7



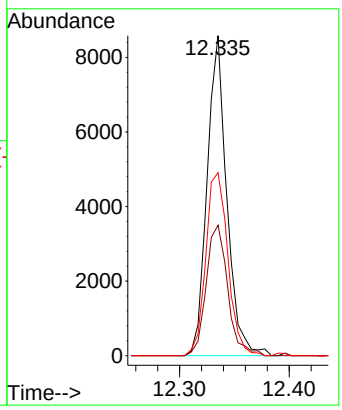


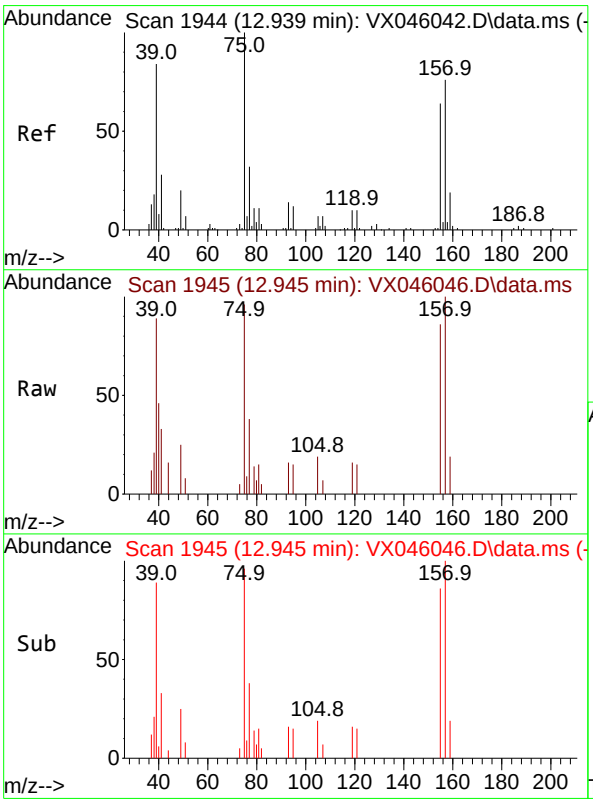
#91
1,2-Dichlorobenzene
Concen: 3.444 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:146 Resp: 10712

Ion	Ratio	Lower	Upper
146	100		
111	44.7	22.4	67.3
148	64.2	31.6	94.8

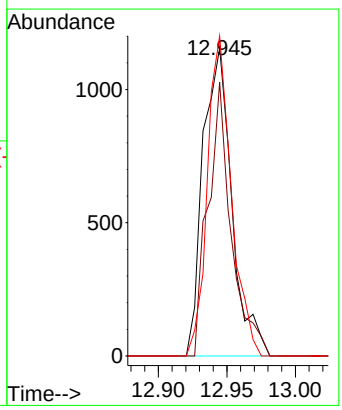


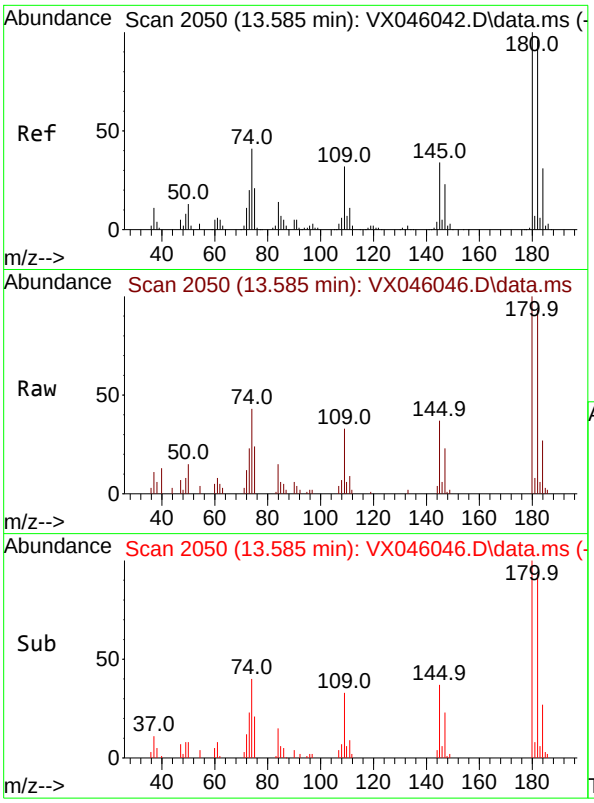


#92
1,2-Dibromo-3-Chloropropane
Concen: 2.812 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. 0.006 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion: 75 Resp: 1687

Ion	Ratio	Lower	Upper
75	100		
155	71.7	34.9	104.8
157	87.0	43.8	131.4



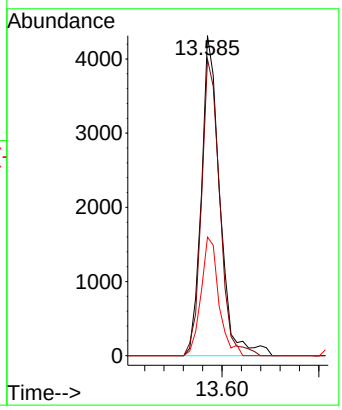


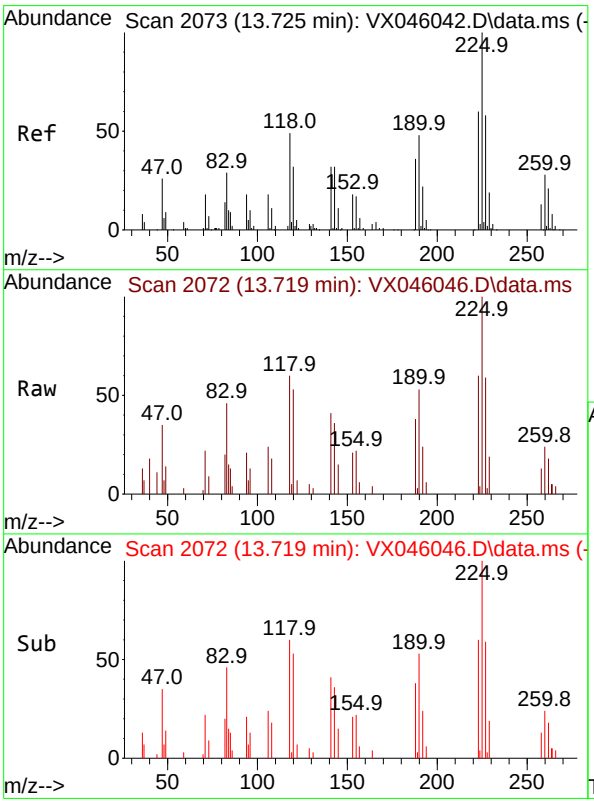
#93
1,2,4-Trichlorobenzene
Concen: 3.359 ug/l
RT: 13.585 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:180 Resp: 5720

Ion	Ratio	Lower	Upper
180	100		
182	91.6	47.9	143.8
145	35.7	17.1	51.2

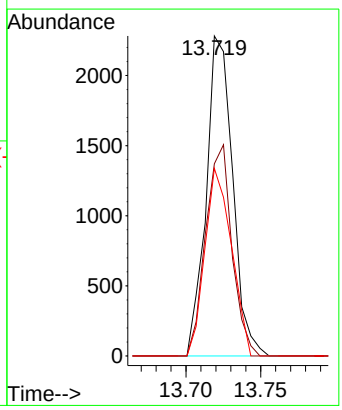


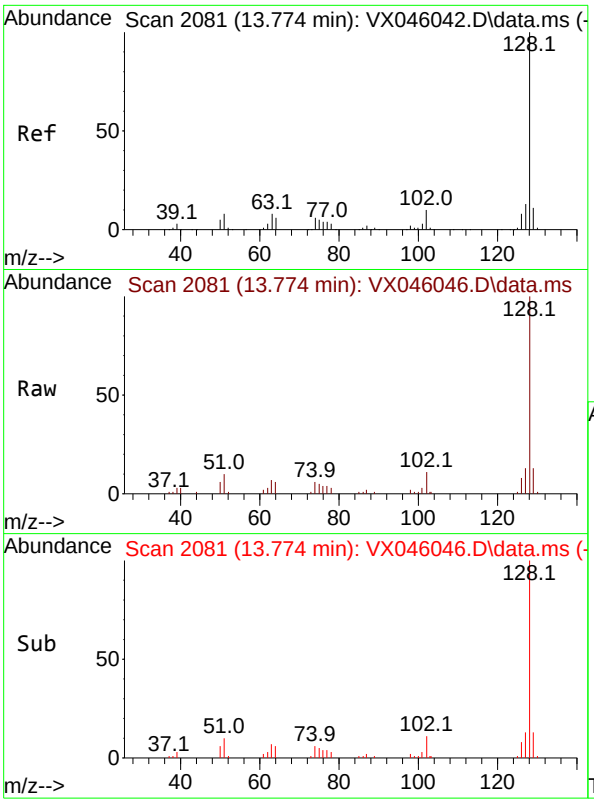


#94
Hexachlorobutadiene
Concen: 3.535 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. -0.006 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion:225 Resp: 2816

Ion	Ratio	Lower	Upper
225	100		
223	65.1	30.8	92.4
227	58.8	30.9	92.7



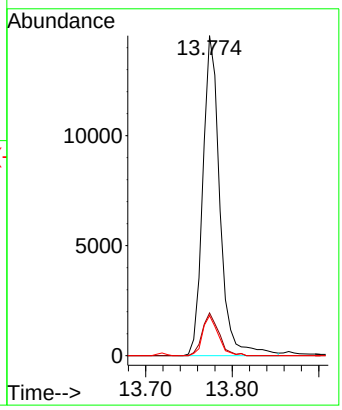


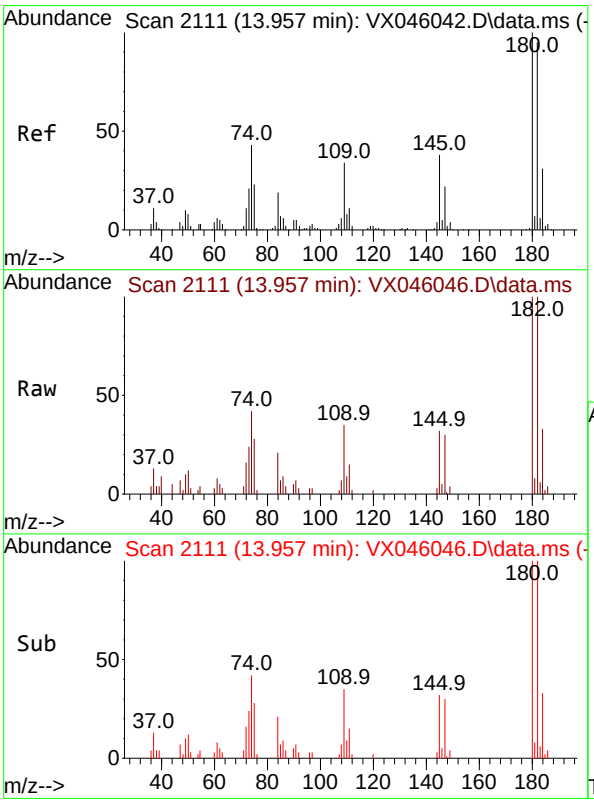
#95
Naphthalene
Concen: 3.209 ug/l
RT: 13.774 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:128 Resp: 19902

Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.4	15.6
129	11.5	8.6	13.0

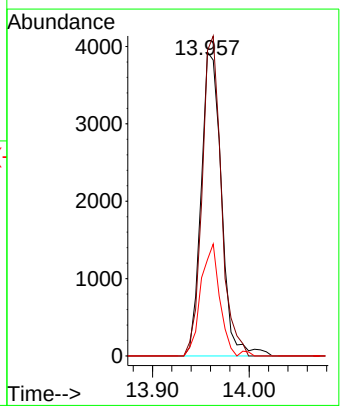




#96
1,2,3-Trichlorobenzene
Concen: 3.217 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VX046046.D
Acq: 05 May 2025 16:04

Tgt Ion:180 Resp: 5745

Ion	Ratio	Lower	Upper
180	100		
182	99.1	47.8	143.3
145	34.8	18.1	54.3



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046047.D
Acq On : 05 May 2025 16:27
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Quant Time: May 06 06:13:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.544	168	92040	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	6.757	114	167022	50.000	ug/l		0.00
63) Chlorobenzene-d5	10.049	117	140108	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	59123	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	5.970	65	2188	0.799	ug/l		0.02
Spiked Amount 50.000	Range 74 - 125		Recovery =	1.600%#			
35) Dibromofluoromethane	5.391	113	1350	0.721	ug/l		0.01
Spiked Amount 50.000	Range 75 - 124		Recovery =	1.440%#			
50) Toluene-d8	8.647	98	3964	0.628	ug/l		0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	1.260%#			
62) 4-Bromofluorobenzene	11.085	95	1250	0.545	ug/l		0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	1.080%#			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.166	85	1211	0.596	ug/l		98
3) Chloromethane	1.307	50	1278	0.639	ug/l		97
4) Vinyl Chloride	1.374	62	1239	0.707	ug/l	#	82
5) Bromomethane	1.593	94	770	0.866	ug/l		88
6) Chloroethane	1.678	64	859	0.951	ug/l		91
7) Trichlorofluoromethane	1.880	101	1959	0.734	ug/l		95
8) Diethyl Ether	2.130	74	742	0.845	ug/l		87
9) 1,1,2-Trichlorotrifluo...	2.319	101	1166	0.731	ug/l		96
10) Methyl Iodide	2.441	142	1297	0.692	ug/l	#	87
11) Tert butyl alcohol	2.965	59	1176	3.604	ug/l	#	78
12) 1,1-Dichloroethene	2.313	96	1093	0.704	ug/l	#	87
13) Acrolein	2.233	56	1374	3.625	ug/l		83
14) Allyl chloride	2.654	41	1936	0.660	ug/l		89
15) Acrylonitrile	3.075	53	3343	3.424	ug/l		98
16) Acetone	2.380	43	3500	3.736	ug/l		97
17) Carbon Disulfide	2.508	76	2619	0.728	ug/l		98
18) Methyl Acetate	2.709	43	1852	0.828	ug/l		98
19) Methyl tert-butyl Ether	3.117	73	3588	0.662	ug/l		96
20) Methylene Chloride	2.782	84	1571	0.828	ug/l	#	90
21) trans-1,2-Dichloroethene	3.081	96	1111	0.701	ug/l	#	71
22) Diisopropyl ether	3.757	45	3857	0.703	ug/l	#	26
23) Vinyl Acetate	3.727	43	15283	3.154	ug/l		96
24) 1,1-Dichloroethane	3.605	63	2054	0.637	ug/l		97
25) 2-Butanone	4.593	43	4558	3.371	ug/l		92
26) 2,2-Dichloropropane	4.458	77	1777	0.728	ug/l		84
27) cis-1,2-Dichloroethene	4.483	96	1324	0.693	ug/l		91
28) Bromochloromethane	4.910	49	682	0.398	ug/l	#	63
29) Tetrahydrofuran	5.019	42	2931	3.338	ug/l		99
30) Chloroform	5.093	83	2328	0.695	ug/l		98
31) Cyclohexane	5.458	56	2072	0.763	ug/l		88
32) 1,1,1-Trichloroethane	5.379	97	1869	0.647	ug/l	#	51
36) 1,1-Dichloropropene	5.684	75	1648	0.758	ug/l	#	83
37) Ethyl Acetate	4.733	43	1447	0.531	ug/l	#	72
38) Carbon Tetrachloride	5.678	117	1807	0.724	ug/l	#	78
39) Methylcyclohexane	7.373	83	2096	0.770	ug/l		97
40) Benzene	6.044	78	4502	0.668	ug/l	#	89

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046047.D
Acq On : 05 May 2025 16:27
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Quant Time: May 06 06:13:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	4.946	41	778	0.513 ug/l #	56
42) 1,2-Dichloroethane	6.092	62	1934	0.694 ug/l	81
43) Isopropyl Acetate	6.354	43	2553	0.612 ug/l #	81
44) Trichloroethene	7.135	130	1083	0.680 ug/l	85
45) 1,2-Dichloropropane	7.440	63	1059	0.633 ug/l	89
46) Dibromomethane	7.586	93	880	0.667 ug/l	97
47) Bromodichloromethane	7.818	83	1620	0.633 ug/l #	91
48) Methyl methacrylate	7.714	41	1033	0.483 ug/l #	71
49) 1,4-Dioxane	7.677	88	498	11.703 ug/l #	66
51) 4-Methyl-2-Pentanone	8.580	43	9378	3.430 ug/l	97
52) Toluene	8.720	92	2684	0.672 ug/l	96
53) t-1,3-Dichloropropene	8.988	75	1238	0.576 ug/l #	79
54) cis-1,3-Dichloropropene	8.379	75	1414	0.564 ug/l #	87
55) 1,1,2-Trichloroethane	9.153	97	1029	0.637 ug/l	92
56) Ethyl methacrylate	9.128	69	1260	0.504 ug/l #	76
57) 1,3-Dichloropropane	9.311	76	2036	0.711 ug/l	97
58) 2-Chloroethyl Vinyl ether	8.244	63	3846	3.420 ug/l	94
59) 2-Hexanone	9.439	43	6424	3.096 ug/l	88
60) Dibromochloromethane	9.525	129	1023	0.582 ug/l	93
61) 1,2-Dibromoethane	9.610	107	1077	0.650 ug/l	98
64) Tetrachloroethene	9.275	164	972	0.679 ug/l	95
65) Chlorobenzene	10.079	112	3170	0.735 ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.159	131	1035	0.720 ug/l #	67
67) Ethyl Benzene	10.195	91	5052	0.687 ug/l	94
68) m/p-Xylenes	10.299	106	3630	1.367 ug/l	97
69) o-Xylene	10.640	106	1799	0.672 ug/l	94
70) Styrene	10.659	104	2664	0.622 ug/l	98
71) Bromoform	10.799	173	657	0.608 ug/l #	100
73) Isopropylbenzene	10.963	105	4480	0.695 ug/l	96
74) N-amyl acetate	10.854	43	2028	0.631 ug/l #	91
75) 1,1,2,2-Tetrachloroethane	11.213	83	1835	0.800 ug/l	94
76) 1,2,3-Trichloropropane	11.244	75	1858	0.754 ug/l	77
77) Bromobenzene	11.201	156	1095	0.734 ug/l	96
78) n-propylbenzene	11.305	91	5052	0.699 ug/l	97
79) 2-Chlorotoluene	11.360	91	3765	0.773 ug/l	94
80) 1,3,5-Trimethylbenzene	11.451	105	3590	0.671 ug/l	96
81) trans-1,4-Dichloro-2-b...	11.024	75	252	0.425 ug/l #	71
82) 4-Chlorotoluene	11.457	91	3815	0.713 ug/l	97
83) tert-Butylbenzene	11.713	119	3951	0.751 ug/l	97
84) 1,2,4-Trimethylbenzene	11.756	105	3725	0.697 ug/l	97
85) sec-Butylbenzene	11.890	105	4385	0.672 ug/l	100
86) p-Isopropyltoluene	12.006	119	3577	0.679 ug/l	94
87) 1,3-Dichlorobenzene	11.969	146	1914	0.689 ug/l	99
88) 1,4-Dichlorobenzene	11.969	146	1914	0.703 ug/l	98
89) n-Butylbenzene	12.335	91	2889	0.631 ug/l	92
90) Hexachloroethane	12.536	117	604	0.616 ug/l	99
91) 1,2-Dichlorobenzene	12.341	146	2022	0.747 ug/l	95
92) 1,2-Dibromo-3-Chloropr...	12.945	75	306	0.586 ug/l	83
93) 1,2,4-Trichlorobenzene	13.591	180	1019	0.688 ug/l	94
94) Hexachlorobutadiene	13.725	225	465	0.671 ug/l	89
95) Naphthalene	13.780	128	4138	0.767 ug/l	97
96) 1,2,3-Trichlorobenzene	13.963	180	1113	0.716 ug/l	96

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046047.D
Acq On : 05 May 2025 16:27
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Quant Time: May 06 06:13:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

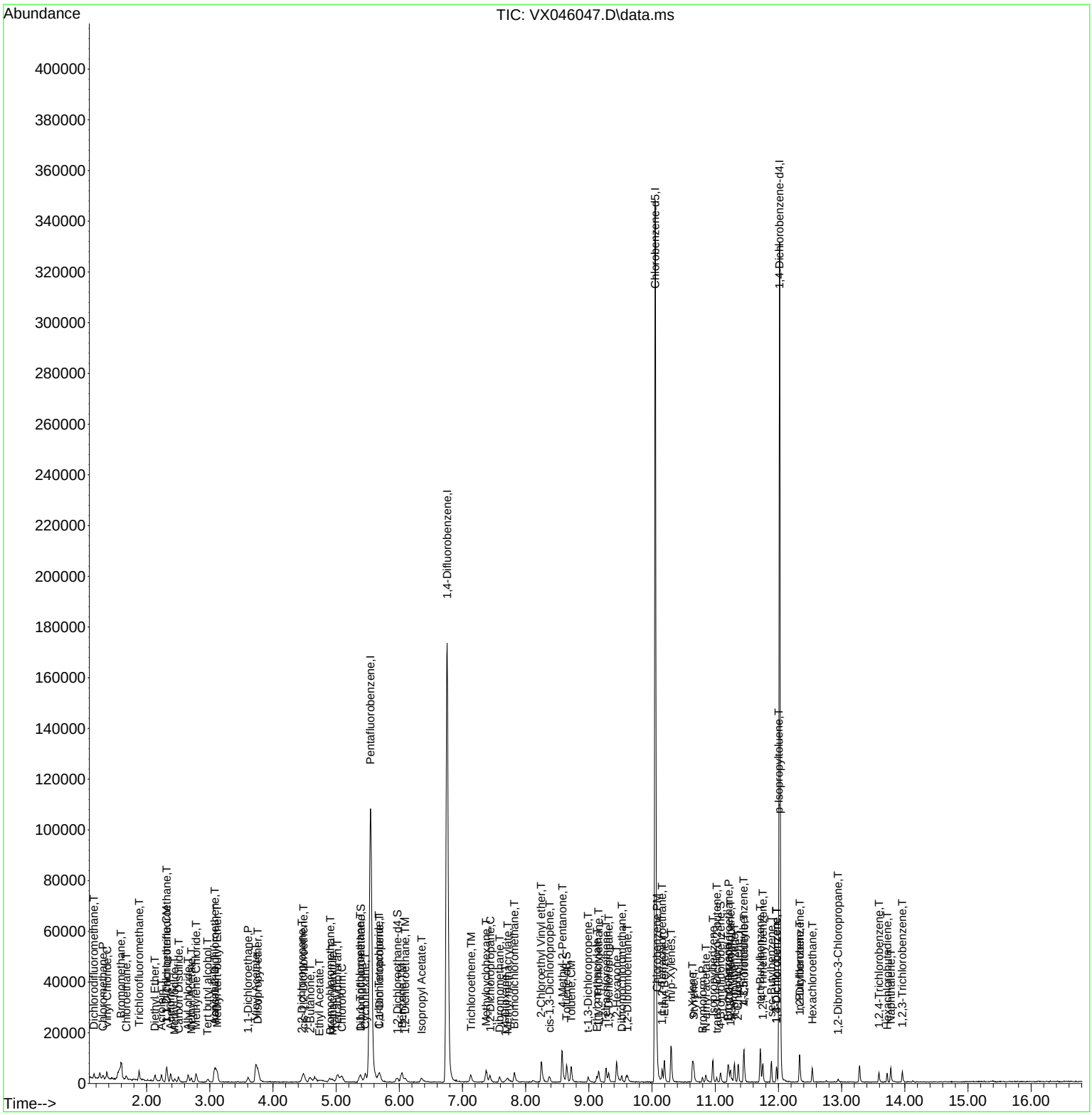
(#) = qualifier out of range (m) = manual integration (+) = signals summed

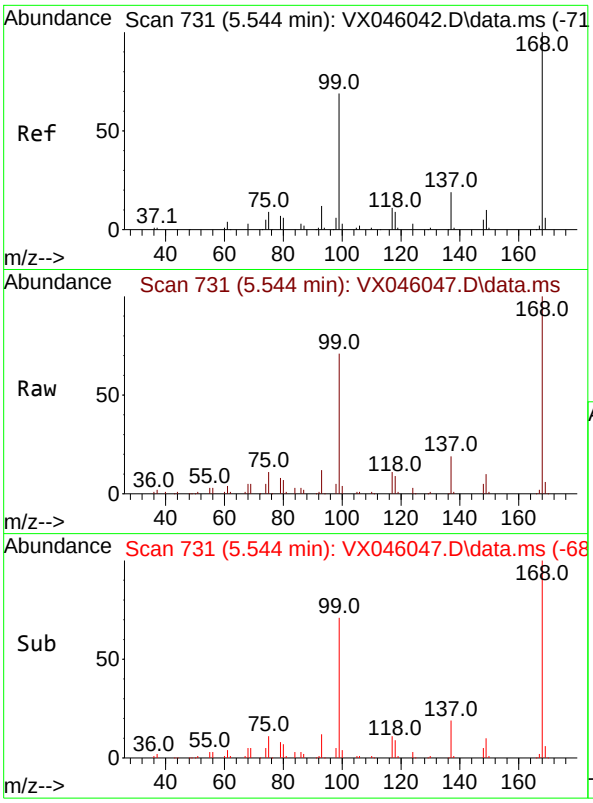
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046047.D
Acq On : 05 May 2025 16:27
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Quant Time: May 06 06:13:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 06:04:56 2025
Response via : Initial Calibration



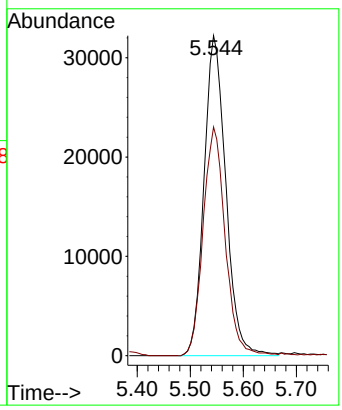


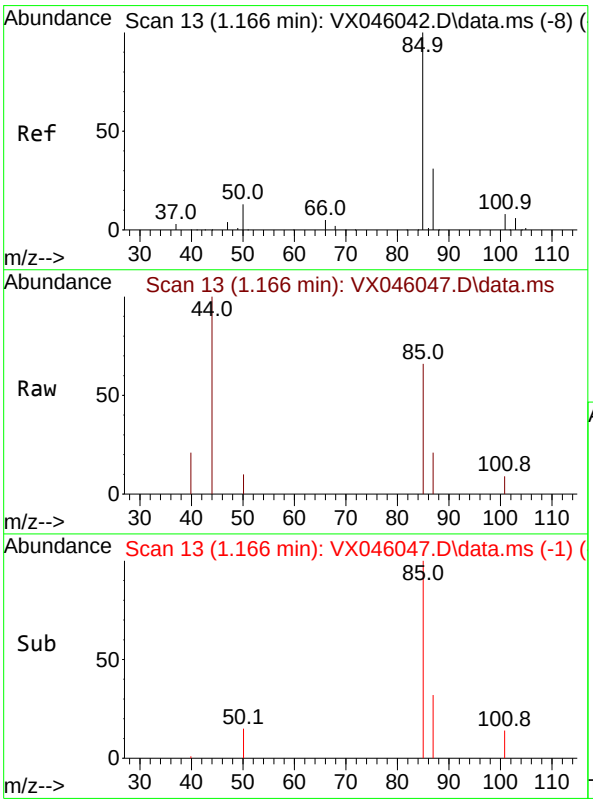
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:168 Resp: 92040

Ion	Ratio	Lower	Upper
168	100		
99	71.5	54.9	82.3

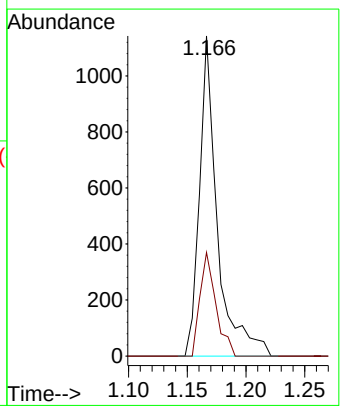


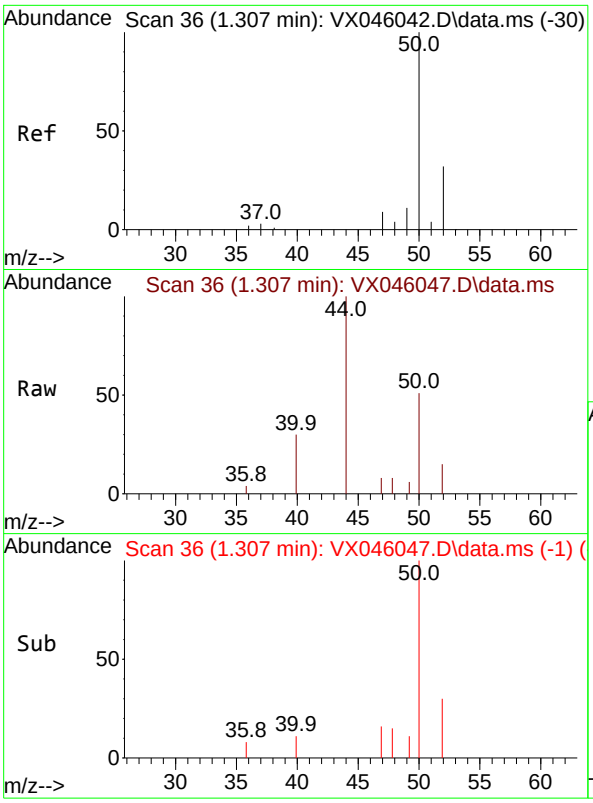


#2
Dichlorodifluoromethane
Concen: 0.596 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 85 Resp: 1211

Ion	Ratio	Lower	Upper
85	100		
87	32.4	15.7	47.1



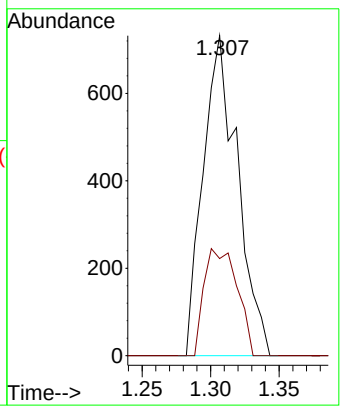


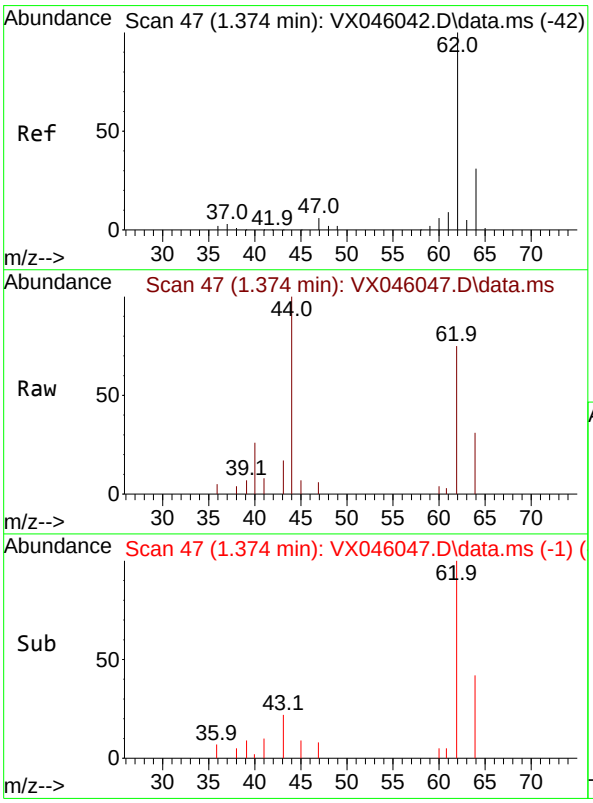
#3
Chloromethane
Concen: 0.639 ug/l
RT: 1.307 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 50 Resp: 1278

Ion	Ratio	Lower	Upper
50	100		
52	30.3	25.4	38.2

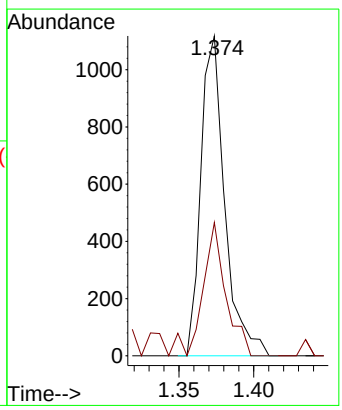


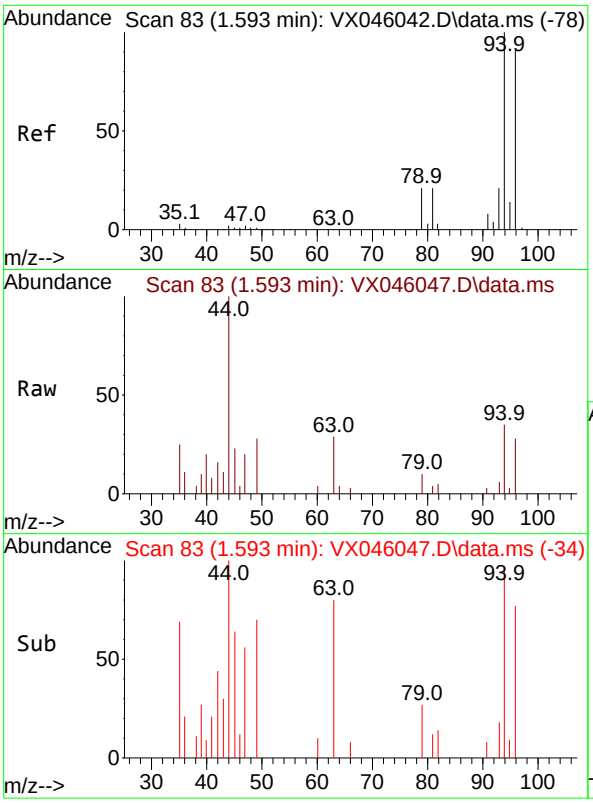


#4
Vinyl Chloride
Concen: 0.707 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 62 Resp: 1239

Ion	Ratio	Lower	Upper
62	100		
64	41.7	25.2	37.8#



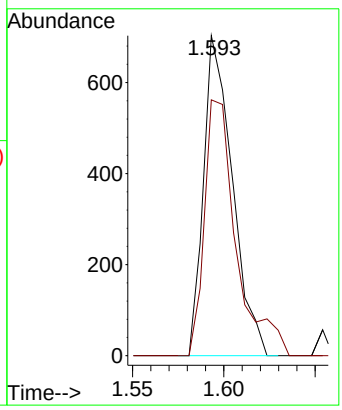


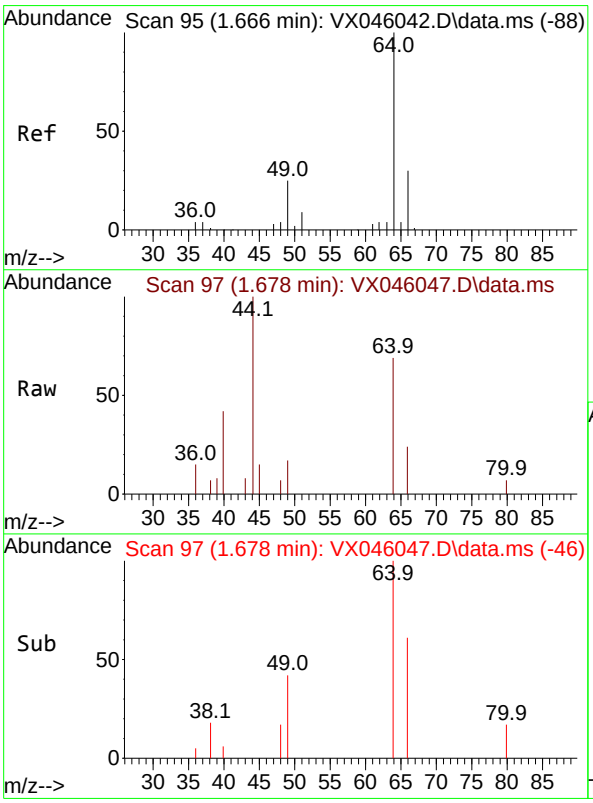
#5
Bromomethane
Concen: 0.866 ug/l
RT: 1.593 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 94 Resp: 770

Ion	Ratio	Lower	Upper
94	100		
96	79.9	72.8	109.2

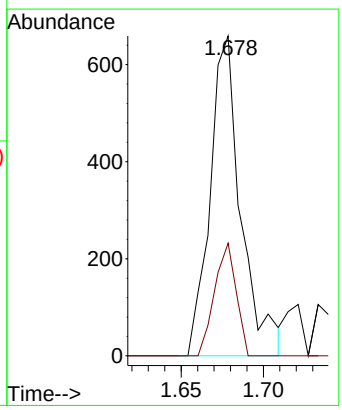


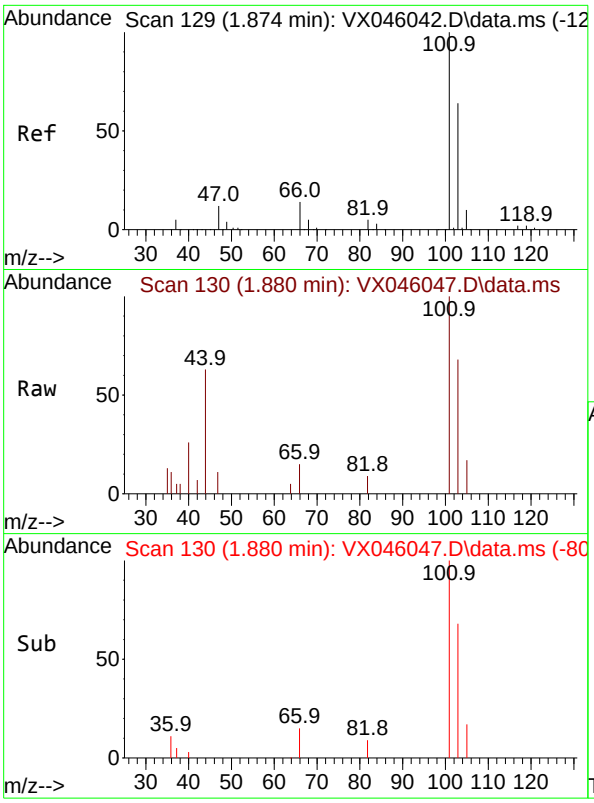


#6
Chloroethane
Concen: 0.951 ug/l
RT: 1.678 min Scan# 97
Delta R.T. 0.012 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 64 Resp: 859

Ion	Ratio	Lower	Upper
64	100		
66	35.2	24.3	36.5



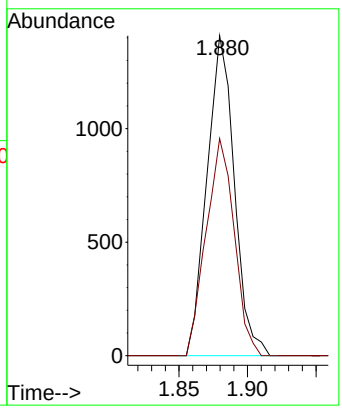


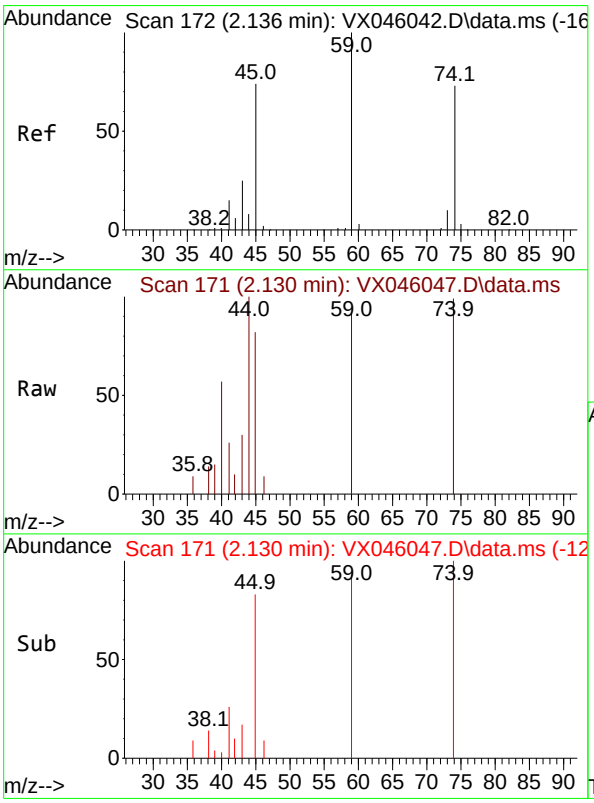
#7
Trichlorofluoromethane
Concen: 0.734 ug/l
RT: 1.880 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:101 Resp: 1959

Ion	Ratio	Lower	Upper
101	100		
103	67.8	51.0	76.4

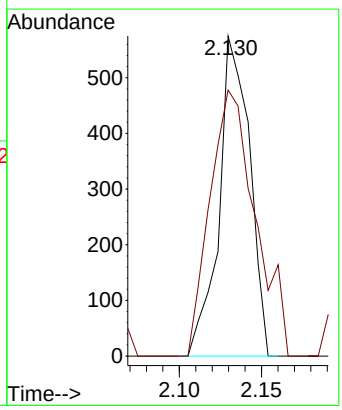


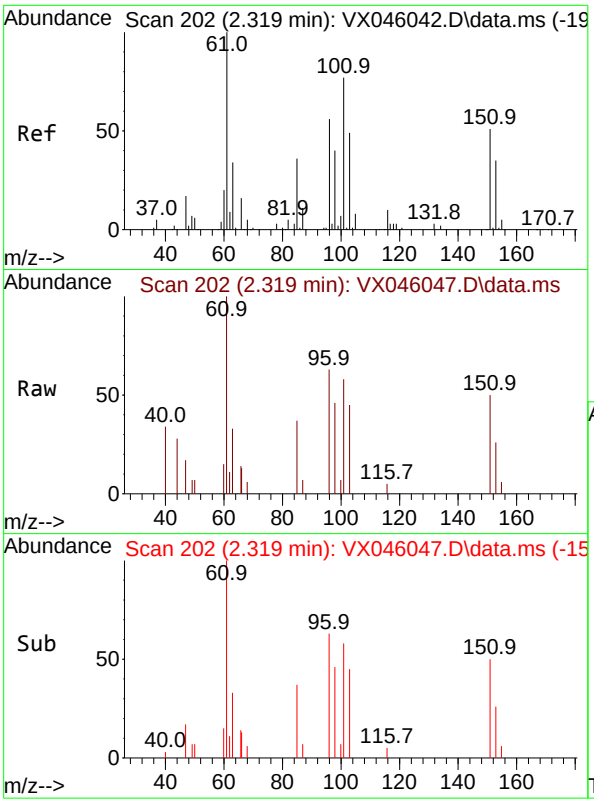


#8
Diethyl Ether
Concen: 0.845 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 74 Resp: 742

Ion	Ratio	Lower	Upper
74	100		
45	123.6	54.9	164.8



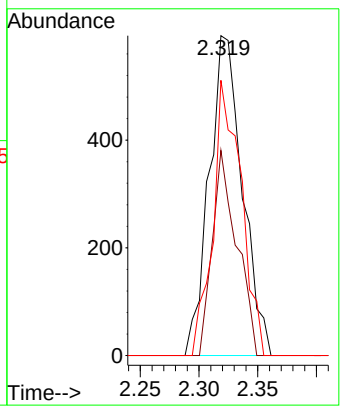


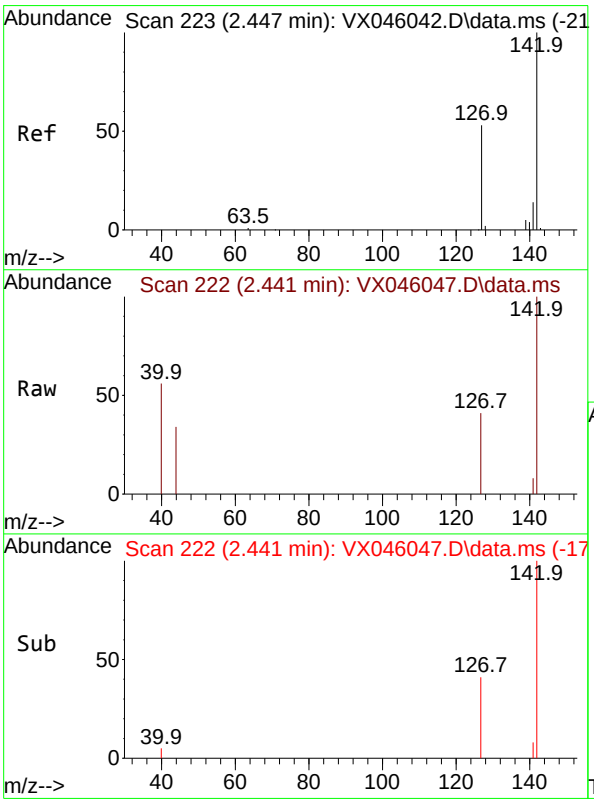
#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.731 ug/l
RT: 2.319 min Scan# 2(
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:101 Resp: 1166

Ion	Ratio	Lower	Upper
101	100		
85	47.3	38.6	58.0
151	73.1	55.2	82.8

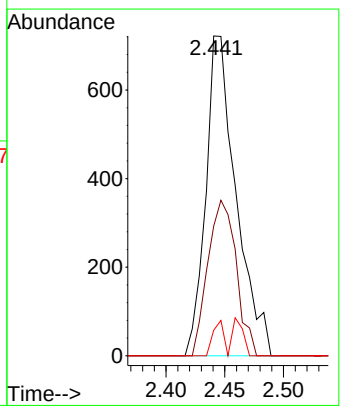


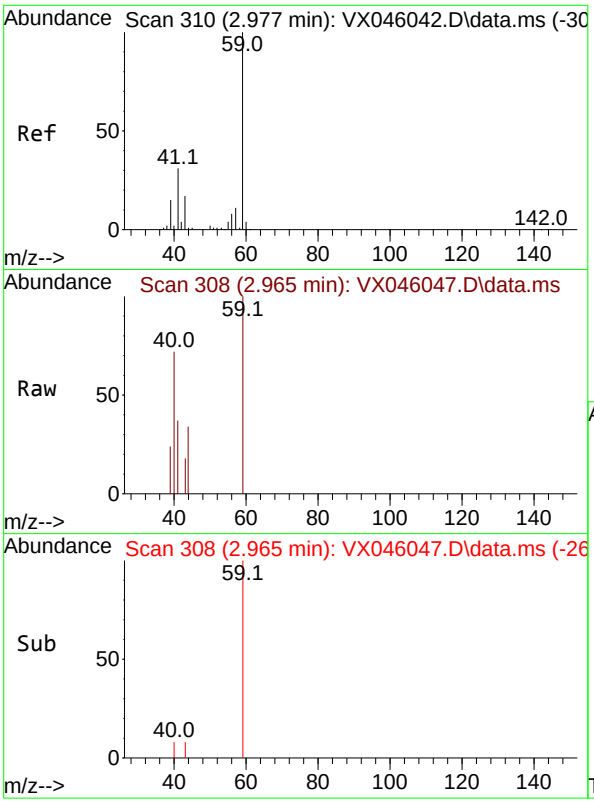


#10
Methyl Iodide
Concen: 0.692 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion:142 Resp: 1297

Ion	Ratio	Lower	Upper
142	100		
127	45.5	41.7	62.5
141	3.9	11.5	17.3#



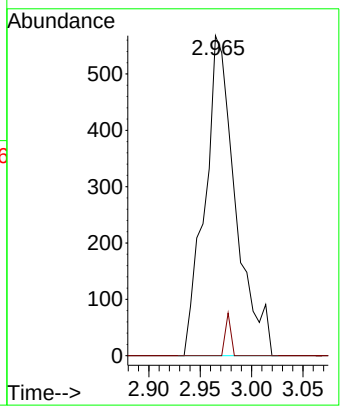


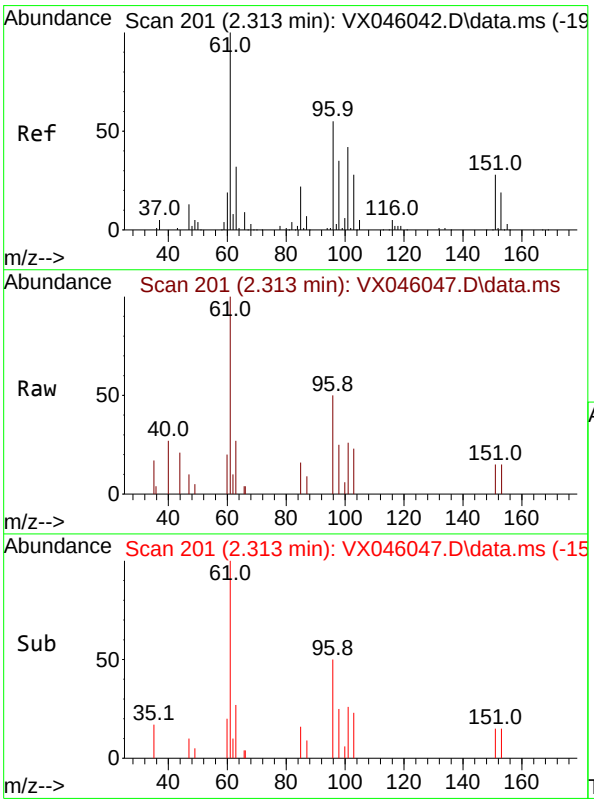
#11
Tert butyl alcohol
Concen: 3.604 ug/l
RT: 2.965 min Scan# 3
Delta R.T. -0.012 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 59 Resp: 1176

Ion	Ratio	Lower	Upper
59	100		
57	2.4	8.6	12.8#

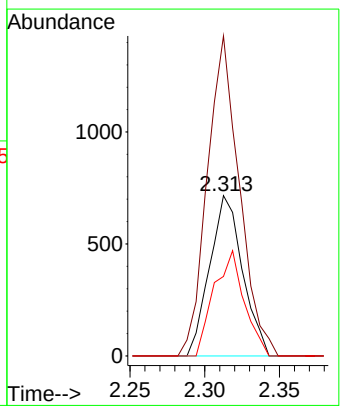


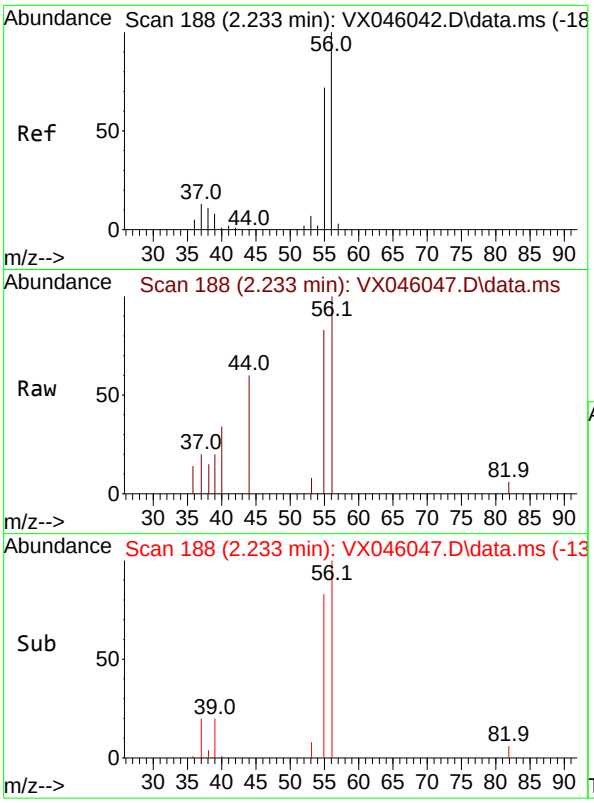


#12
1,1-Dichloroethene
Concen: 0.704 ug/l
RT: 2.313 min Scan# 201
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 96 Resp: 1093

Ion	Ratio	Lower	Upper
96	100		
61	199.6	146.2	219.2
98	49.6	51.0	76.6#



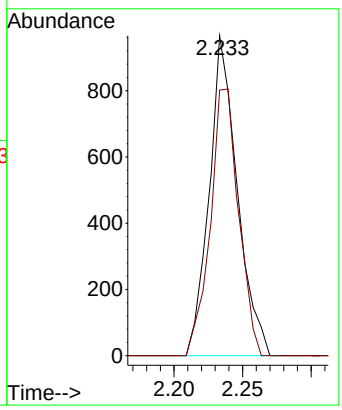


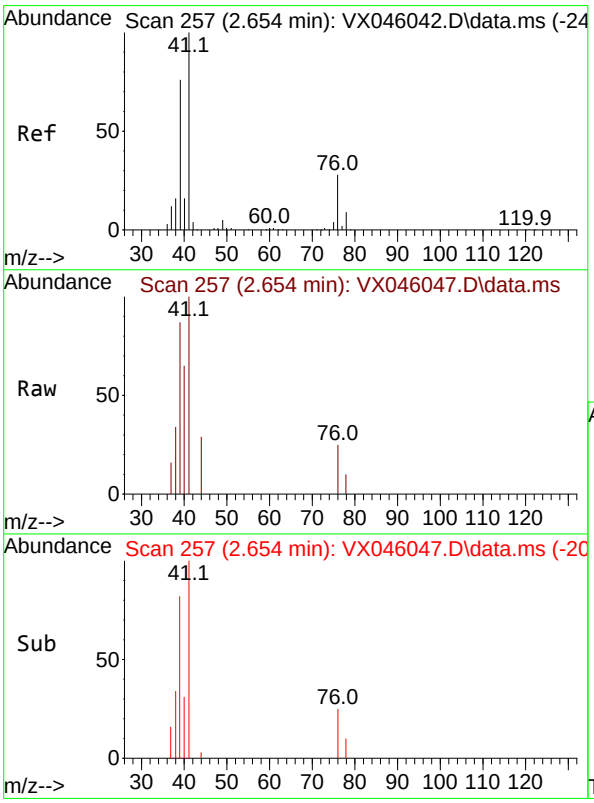
#13
Acrolein
Concen: 3.625 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 56 Resp: 1374

Ion	Ratio	Lower	Upper
56	100		
55	83.9	56.2	84.4

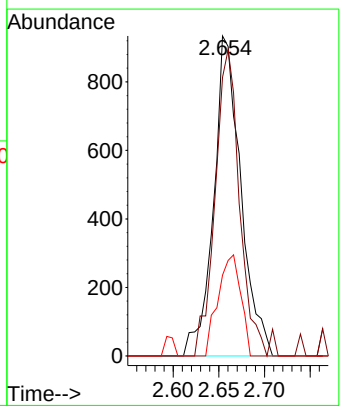


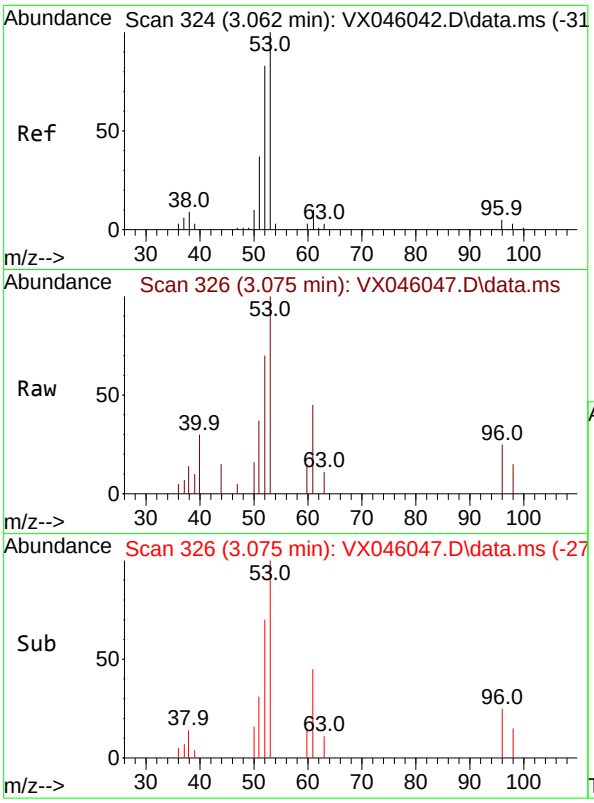


#14
Allyl chloride
Concen: 0.660 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 41 Resp: 1936

Ion	Ratio	Lower	Upper
41	100		
39	85.5	60.6	90.8
76	26.4	24.9	37.3



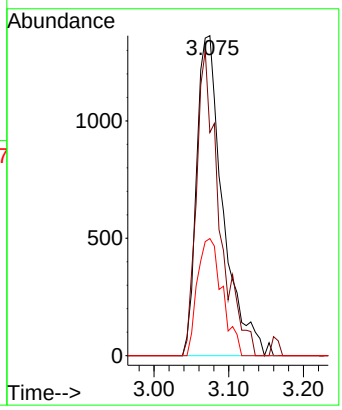


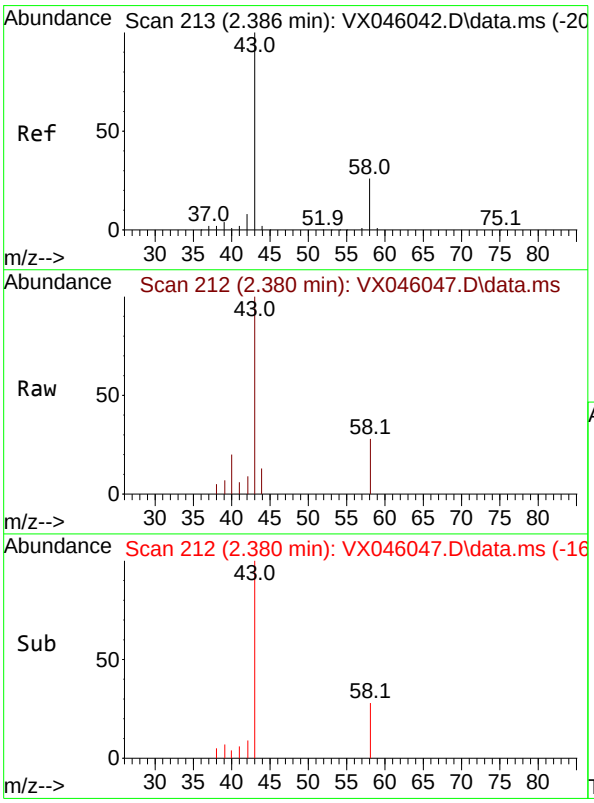
#15
Acrylonitrile
Concen: 3.424 ug/l
RT: 3.075 min Scan# 3
Delta R.T. 0.012 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 53 Resp: 3343

Ion	Ratio	Lower	Upper
53	100		
52	82.9	65.3	97.9
51	34.4	29.8	44.8

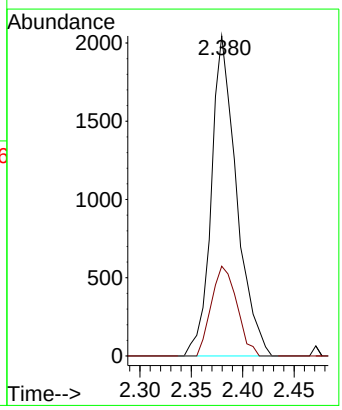


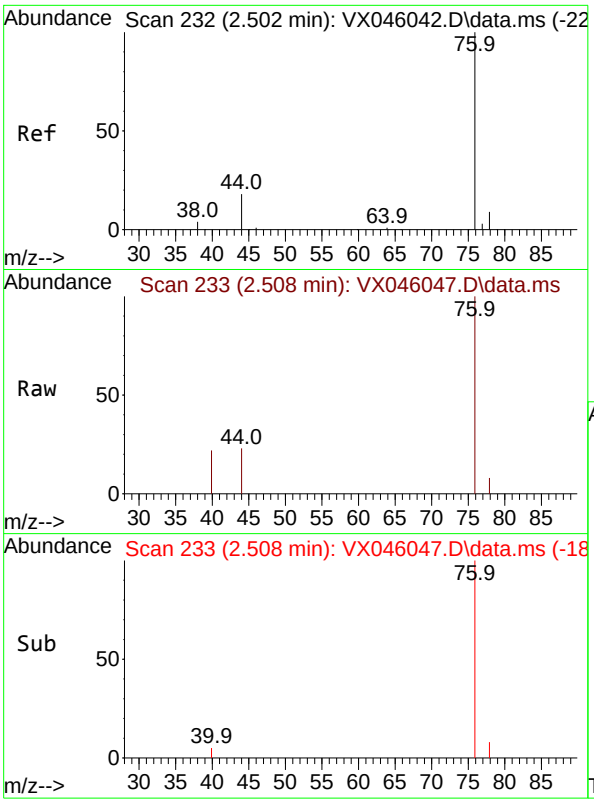


#16
Acetone
Concen: 3.736 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 43 Resp: 3500

Ion	Ratio	Lower	Upper
43	100		
58	28.1	21.2	31.8



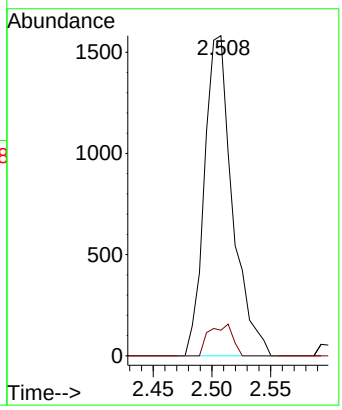


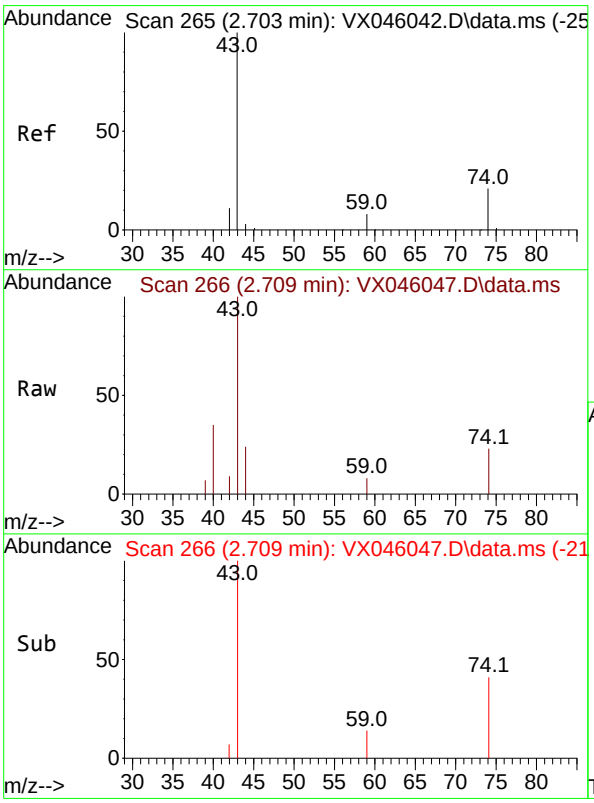
#17
Carbon Disulfide
Concen: 0.728 ug/l
RT: 2.508 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 76 Resp: 2619

Ion	Ratio	Lower	Upper
76	100		
78	8.0	7.0	10.4

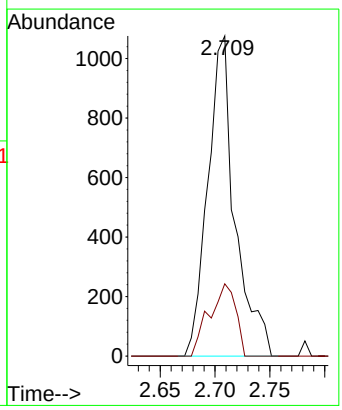


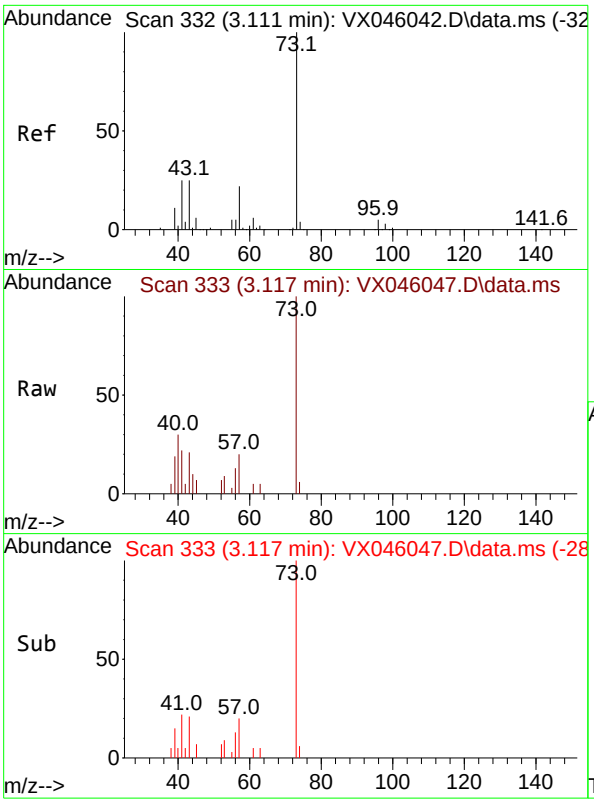


#18
Methyl Acetate
Concen: 0.828 ug/l
RT: 2.709 min Scan# 266
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 43 Resp: 1852

Ion	Ratio	Lower	Upper
43	100		
74	22.0	16.7	25.1



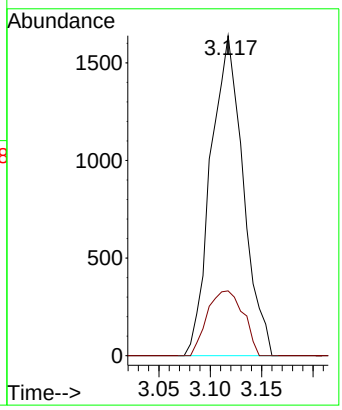


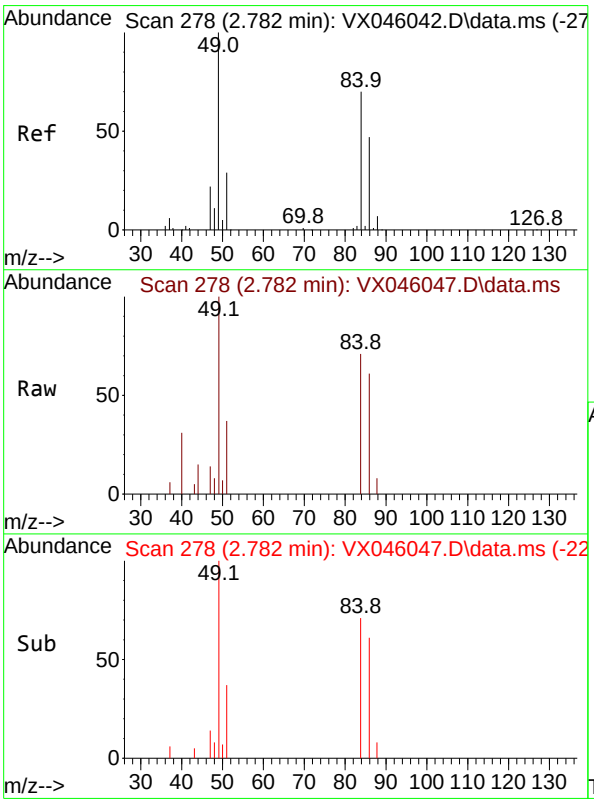
#19
Methyl tert-butyl Ether
Concen: 0.662 ug/l
RT: 3.117 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 73 Resp: 3588

Ion	Ratio	Lower	Upper
73	100		
57	20.3	17.7	26.5

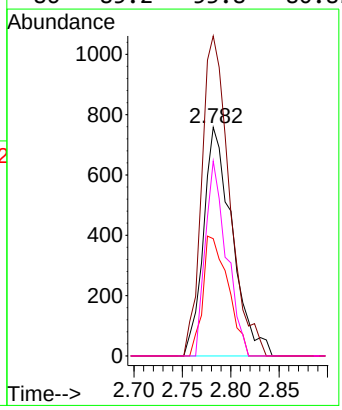


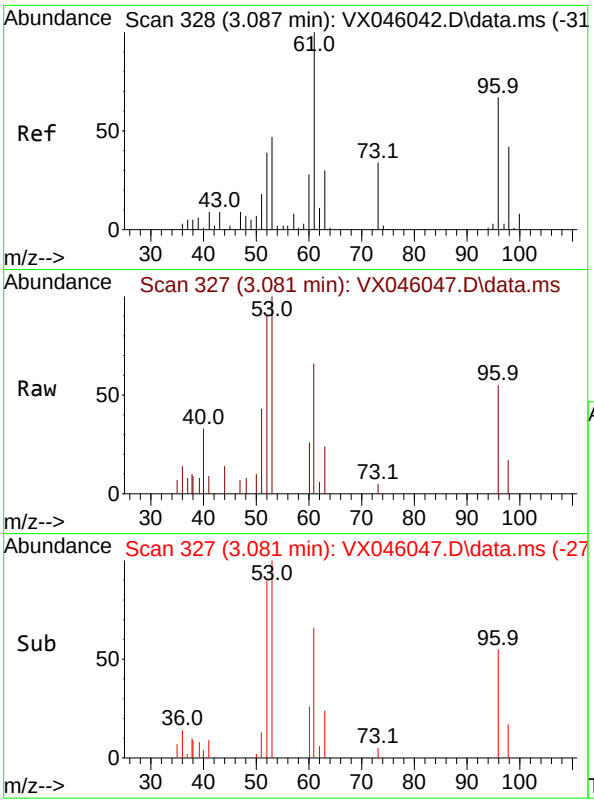


#20
Methylene Chloride
Concen: 0.828 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 84 Resp: 1571

Ion	Ratio	Lower	Upper
84	100		
49	140.0	113.9	170.9
51	51.3	33.5	50.3#
86	85.2	53.8	80.8#



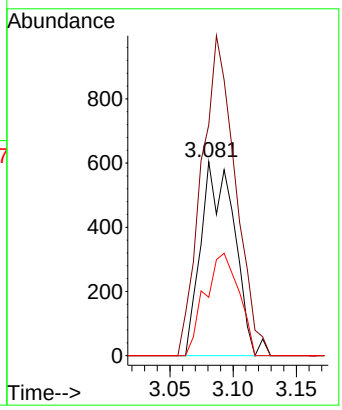


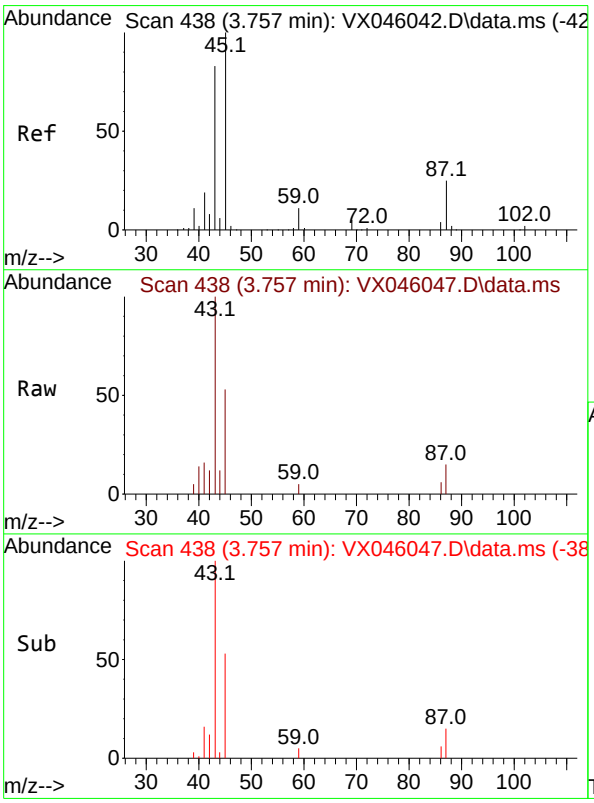
#21
trans-1,2-Dichloroethene
Concen: 0.701 ug/l
RT: 3.081 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 96 Resp: 1111

Ion	Ratio	Lower	Upper
96	100		
61	119.0	119.5	179.3#
98	30.1	50.0	75.0#

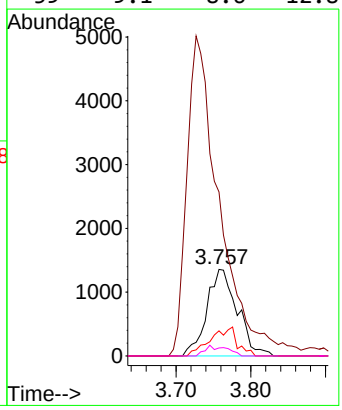


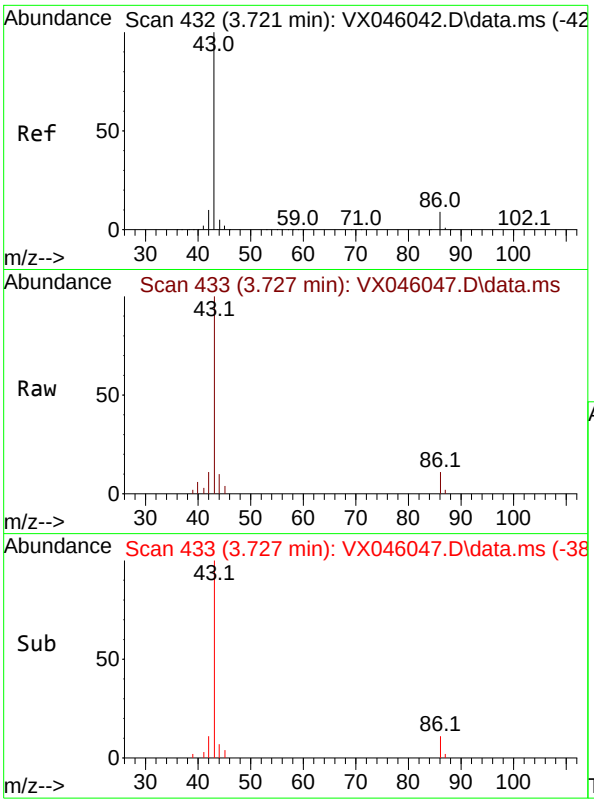


#22
Diisopropyl ether
Concen: 0.703 ug/l
RT: 3.757 min Scan# 438
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 45 Resp: 3857

Ion	Ratio	Lower	Upper
45	100		
43	176.2	66.6	100.0#
87	28.9	19.8	29.6
59	9.1	8.6	12.8



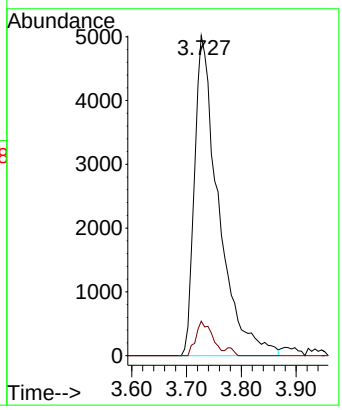


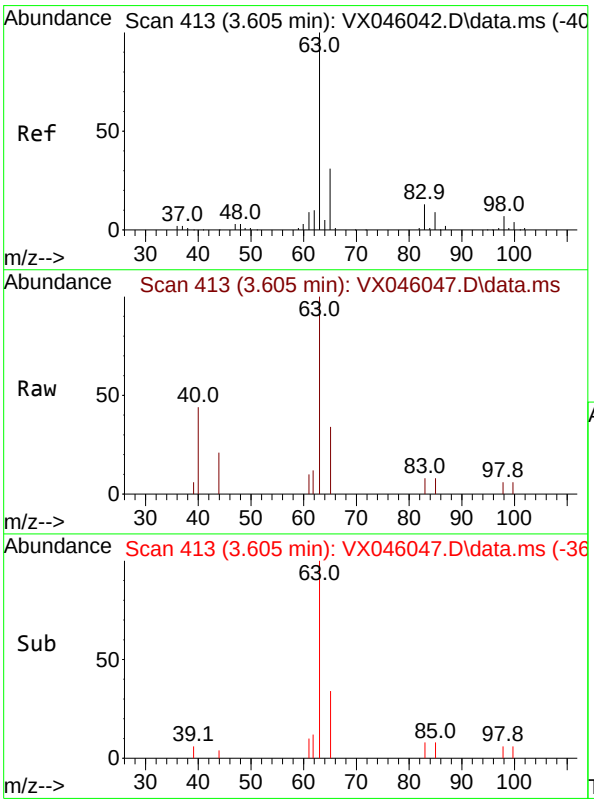
#23
Vinyl Acetate
Concen: 3.154 ug/l
RT: 3.727 min Scan# 4
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 15283

Ion	Ratio	Lower	Upper
43	100		
86	10.8	7.5	11.3

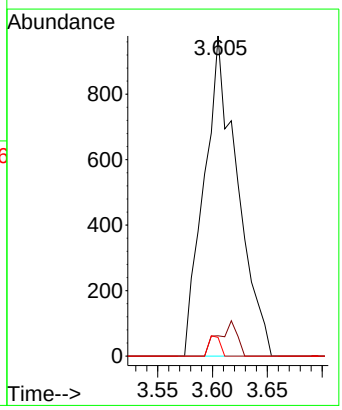


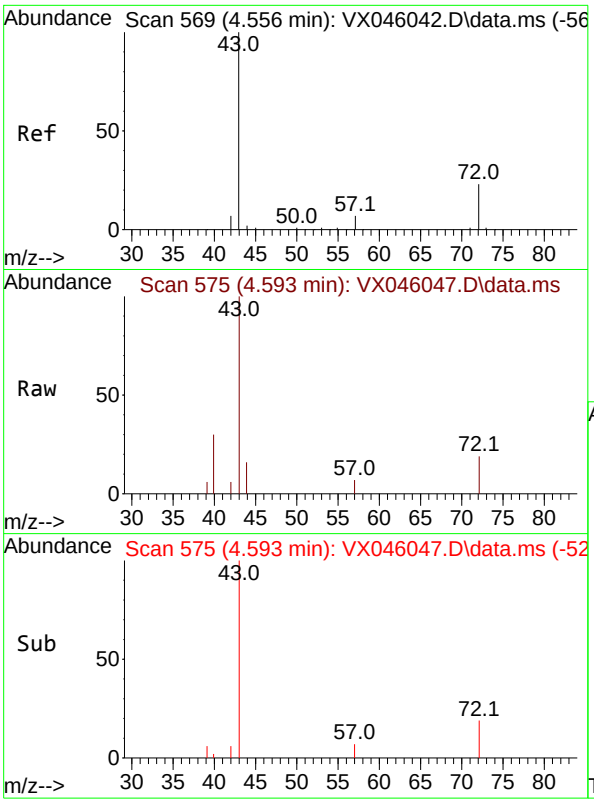


#24
1,1-Dichloroethane
Concen: 0.637 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 63 Resp: 2054

Ion	Ratio	Lower	Upper
63	100		
98	6.3	3.6	10.8
100	5.8	2.1	6.3



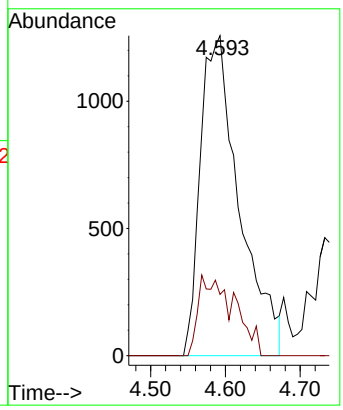


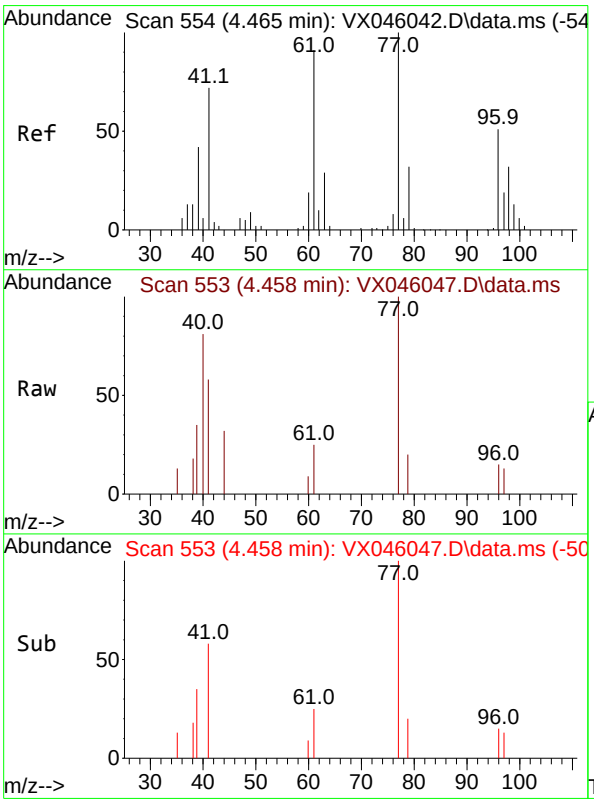
#25
2-Butanone
Concen: 3.371 ug/l
RT: 4.593 min Scan# 5
Delta R.T. 0.037 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 4558

Ion	Ratio	Lower	Upper
43	100		
72	19.2	18.4	27.6

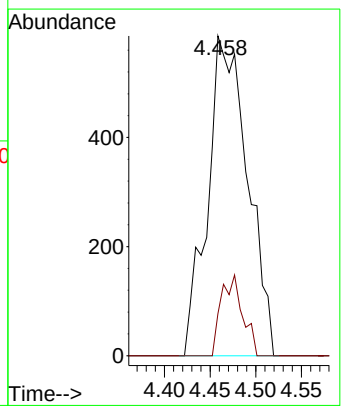


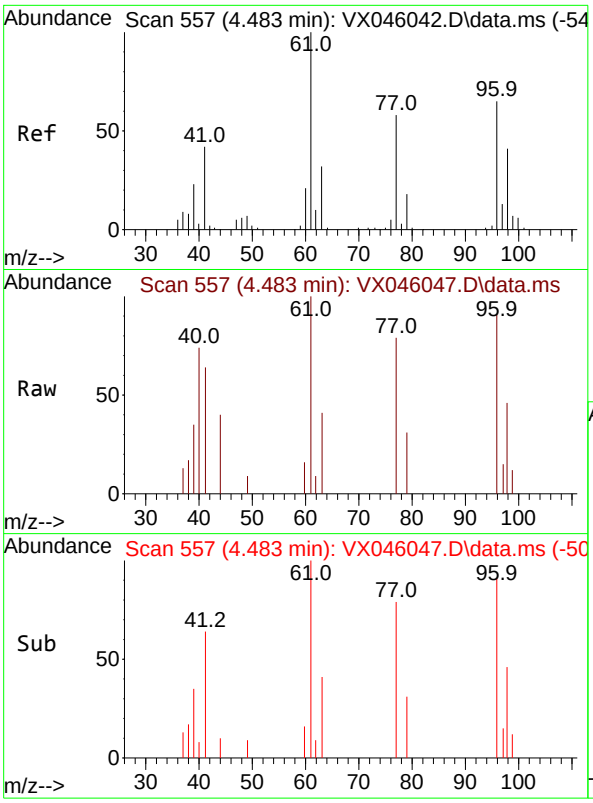


#26
2,2-Dichloropropane
Concen: 0.728 ug/l
RT: 4.458 min Scan# 553
Delta R.T. -0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 77 Resp: 1777

Ion	Ratio	Lower	Upper
77	100		
97	13.7	10.5	31.5



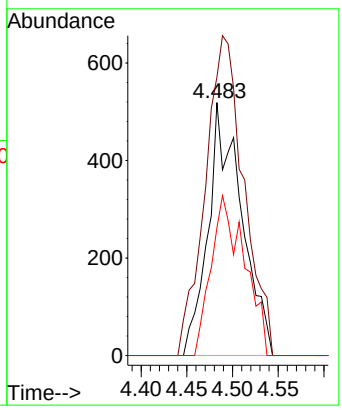


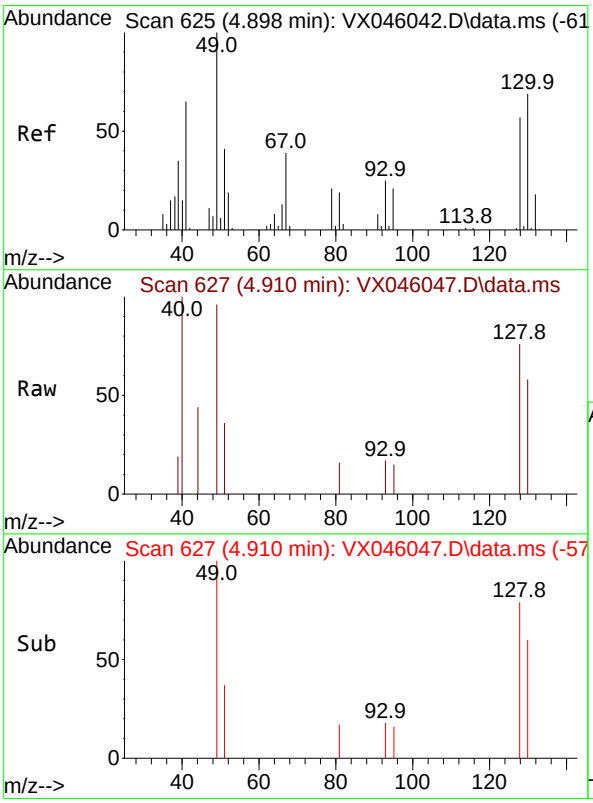
#27
cis-1,2-Dichloroethene
Concen: 0.693 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 96 Resp: 1324

Ion	Ratio	Lower	Upper
96	100		
61	145.5	0.0	322.8
98	63.1	0.0	129.0

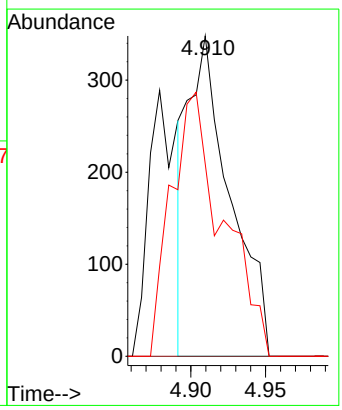


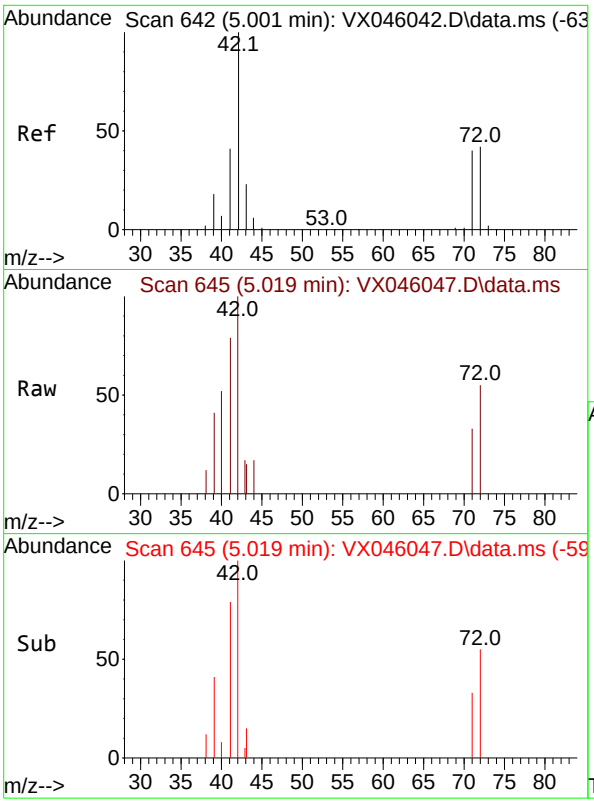


#28
Bromochloromethane
Concen: 0.398 ug/l
RT: 4.910 min Scan# 627
Delta R.T. 0.012 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 49 Resp: 682

Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.0
130	101.6	56.2	84.2#



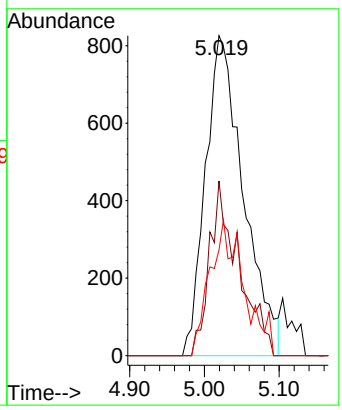


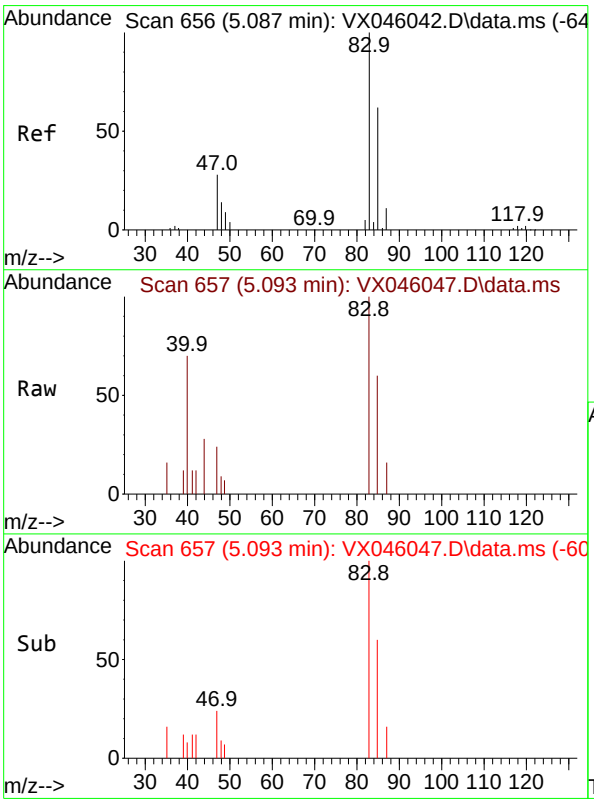
#29
Tetrahydrofuran
Concen: 3.338 ug/l
RT: 5.019 min Scan# 64
Delta R.T. 0.018 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 42 Resp: 2931

Ion	Ratio	Lower	Upper
42	100		
72	41.9	33.7	50.5
71	37.7	31.4	47.2

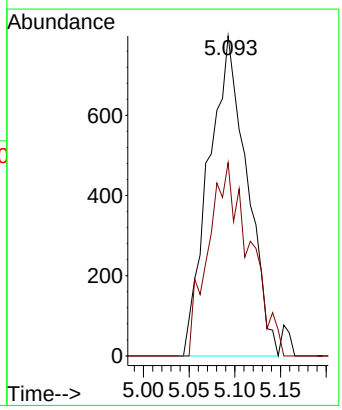


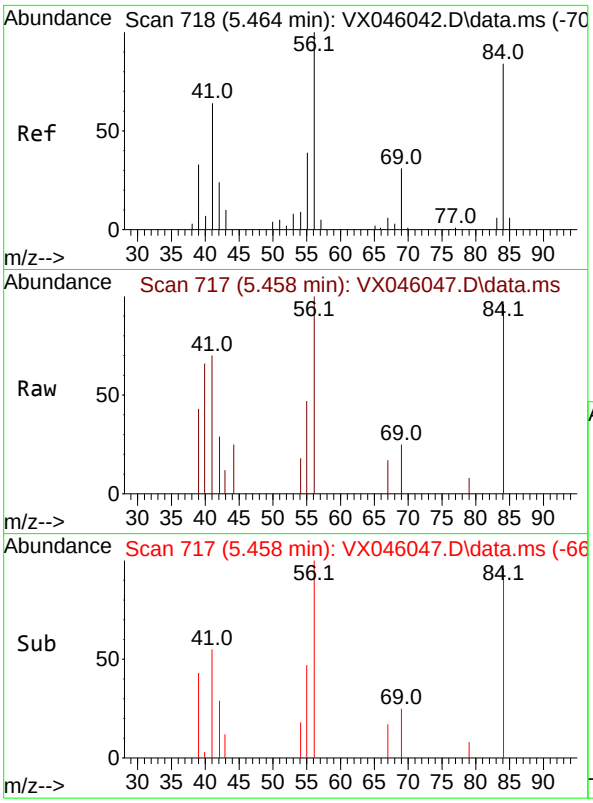


#30
Chloroform
Concen: 0.695 ug/l
RT: 5.093 min Scan# 657
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 83 Resp: 2328

Ion	Ratio	Lower	Upper
83	100		
85	60.4	49.3	73.9



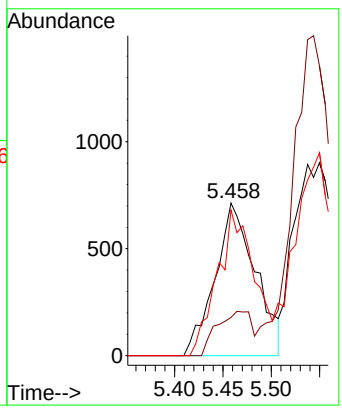


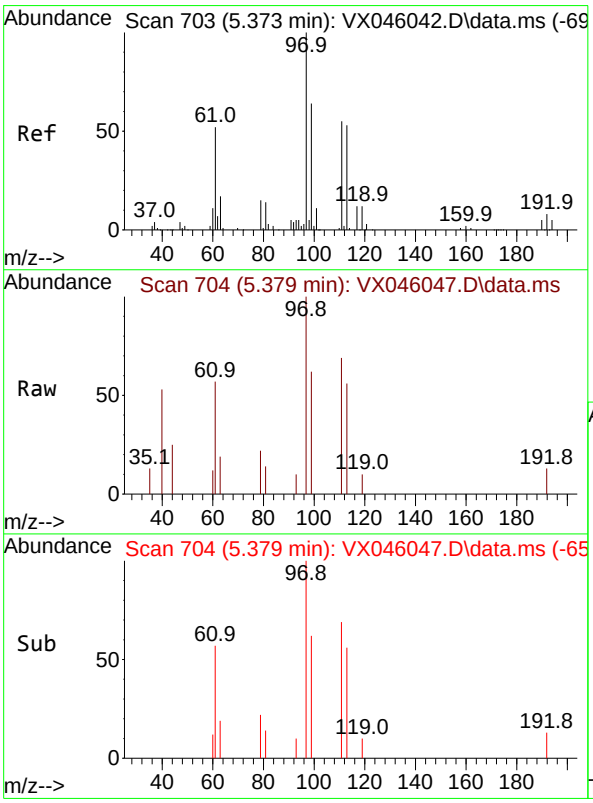
#31
Cyclohexane
Concen: 0.763 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 56 Resp: 2072

Ion	Ratio	Lower	Upper
56	100		
69	25.1	24.4	36.6
84	95.5	66.9	100.3

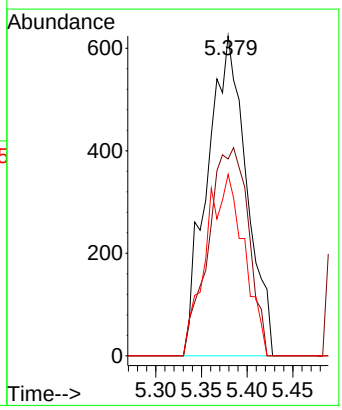


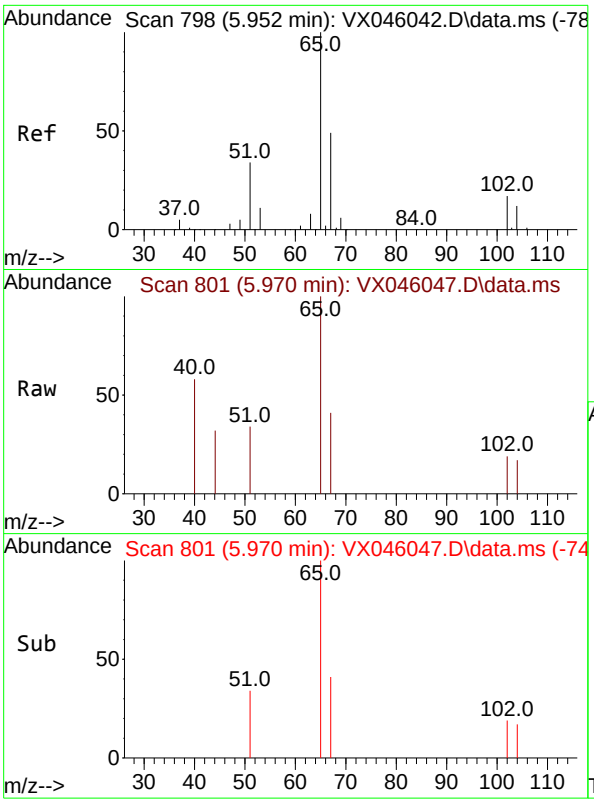


#32
1,1,1-Trichloroethane
Concen: 0.647 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 97 Resp: 1869

Ion	Ratio	Lower	Upper
97	100		
99	0.0	51.8	77.6#
61	55.0	40.1	60.1



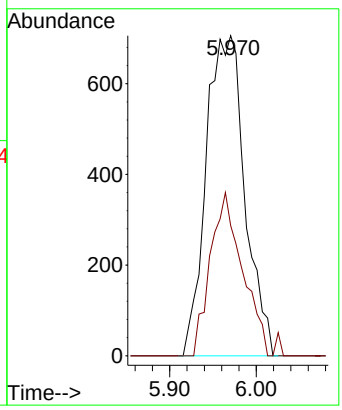


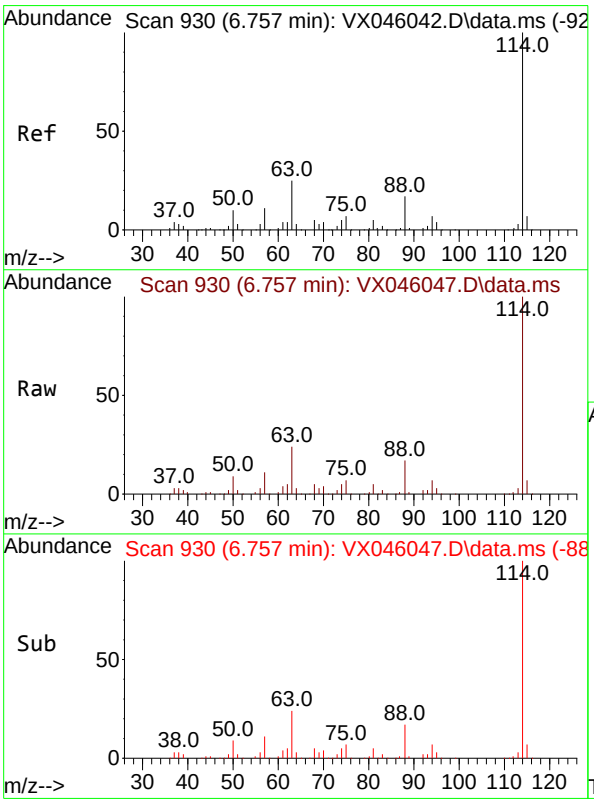
#33
1,2-Dichloroethane-d4
Concen: 0.799 ug/l
RT: 5.970 min Scan# 8
Delta R.T. 0.018 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 65 Resp: 2188

Ion	Ratio	Lower	Upper
65	100		
67	42.3	0.0	99.0

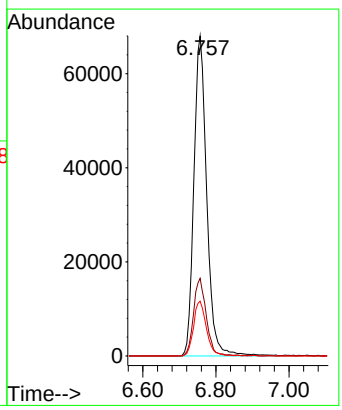


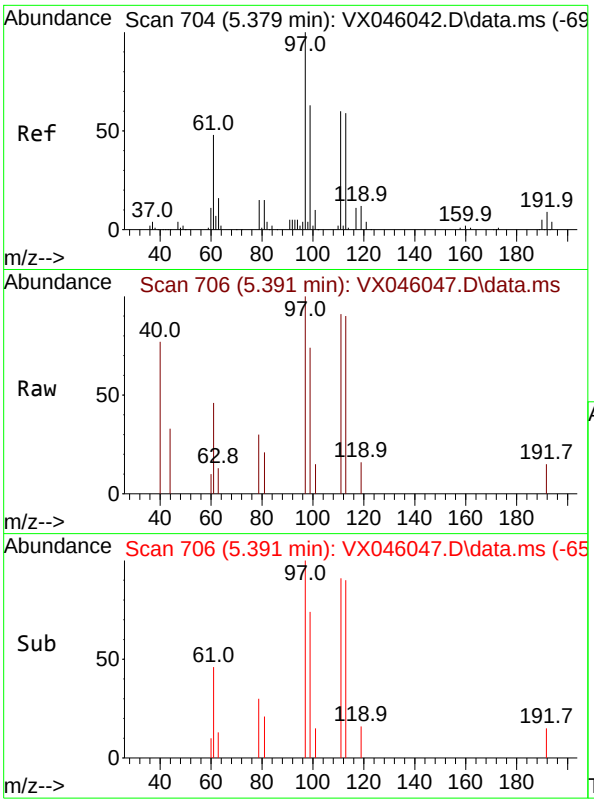


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion:114 Resp: 167022

Ion	Ratio	Lower	Upper
114	100		
63	24.2	0.0	49.2
88	17.1	0.0	33.6



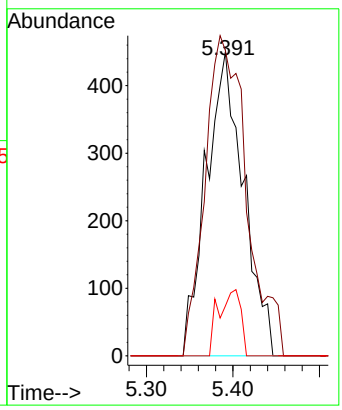


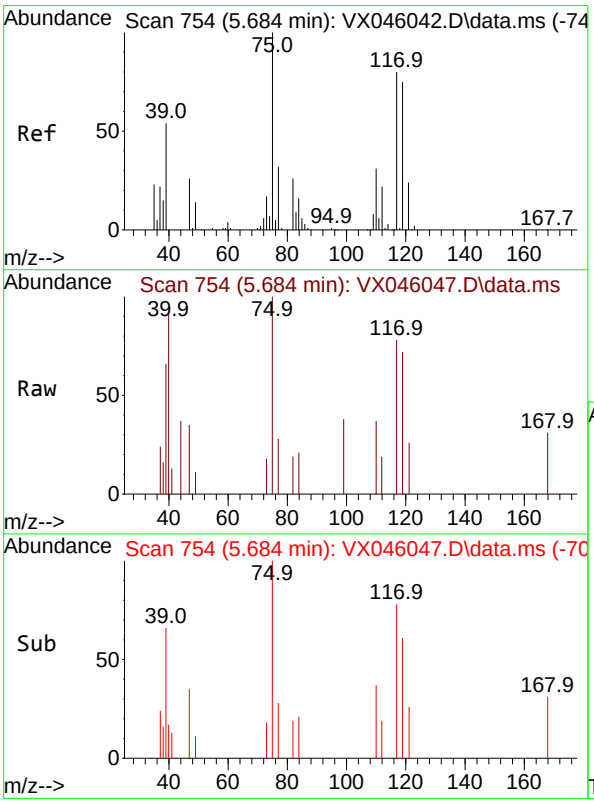
#35
Dibromofluoromethane
Concen: 0.721 ug/l
RT: 5.391 min Scan# 7
Delta R.T. 0.012 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:113 Resp: 1350

Ion	Ratio	Lower	Upper
113	100		
111	117.0	83.1	124.7
192	12.8	13.3	19.9#

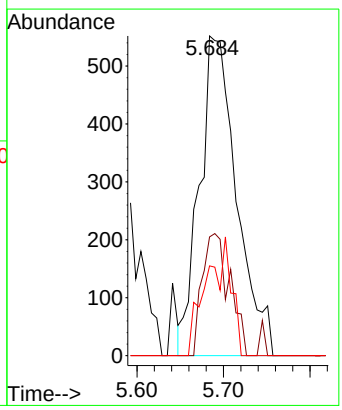


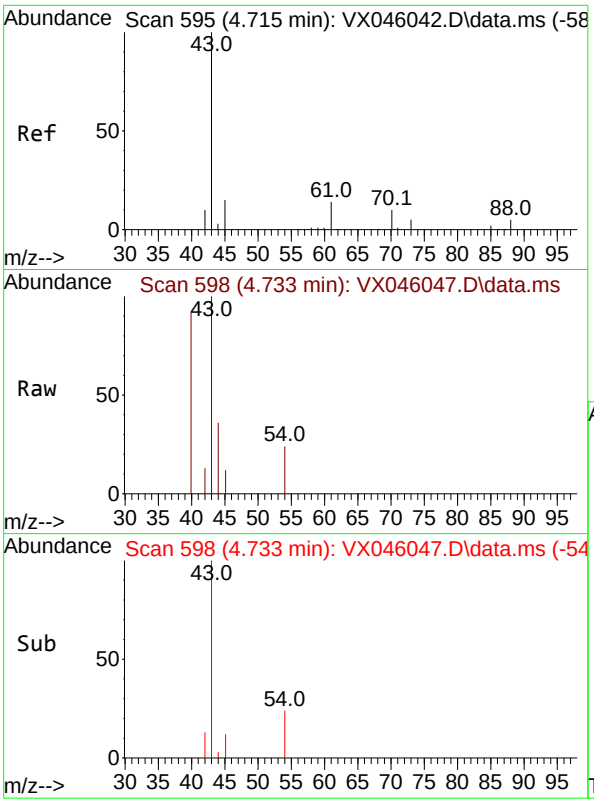


#36
1,1-Dichloropropene
Concen: 0.758 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 75 Resp: 1648

Ion	Ratio	Lower	Upper
75	100		
110	28.2	16.3	48.9
77	15.8	24.3	36.5#



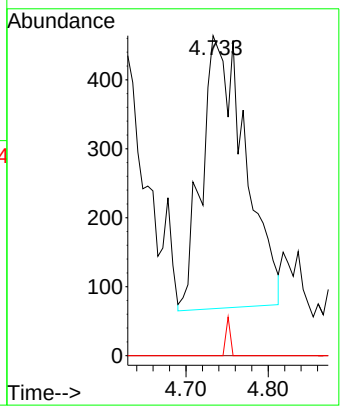


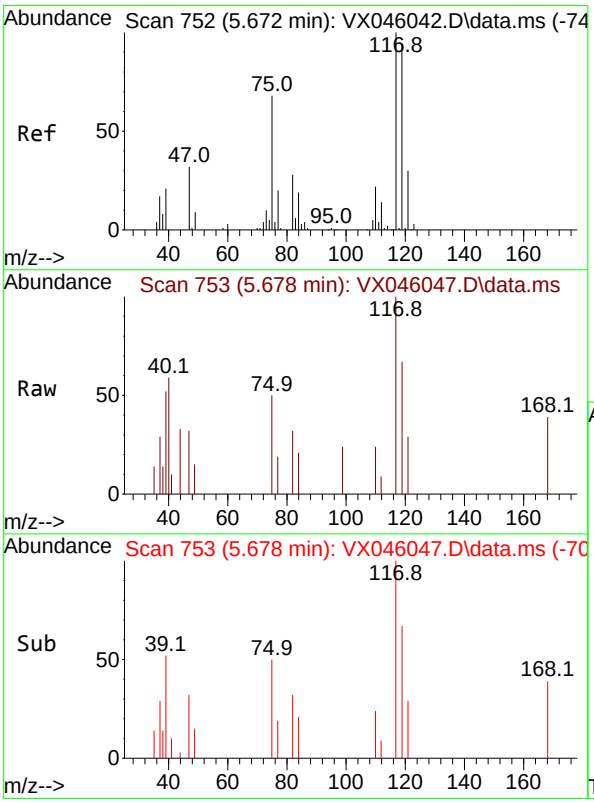
#37
Ethyl Acetate
Concen: 0.531 ug/l
RT: 4.733 min Scan# 5
Delta R.T. 0.018 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 1447

Ion	Ratio	Lower	Upper
43	100		
61	0.0	10.3	15.5#
70	1.4	7.9	11.9#

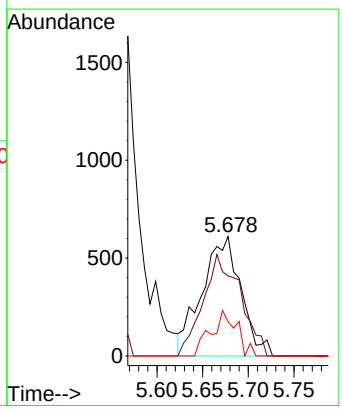


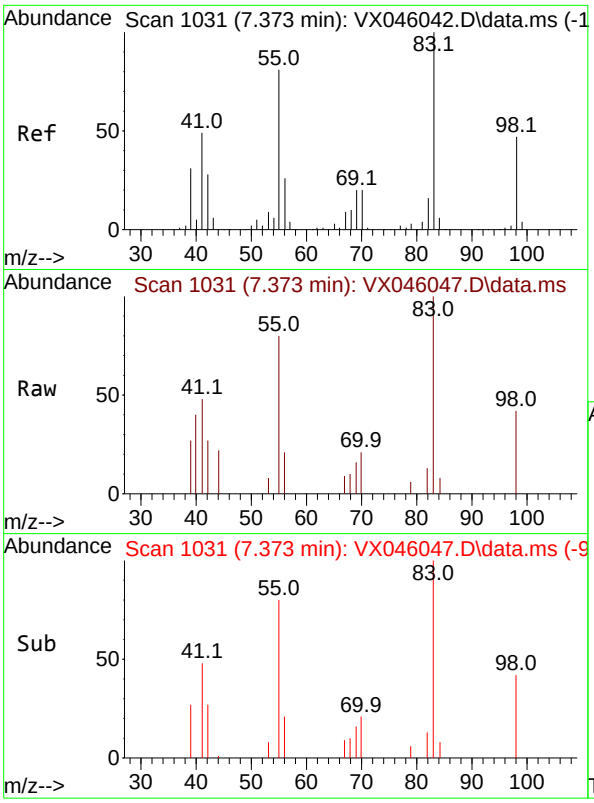


#38
Carbon Tetrachloride
Concen: 0.724 ug/l
RT: 5.678 min Scan# 753
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion:117 Resp: 1807

Ion	Ratio	Lower	Upper
117	100		
119	67.0	75.2	112.8#
121	28.5	24.2	36.4



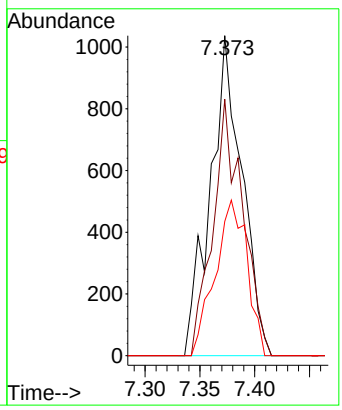


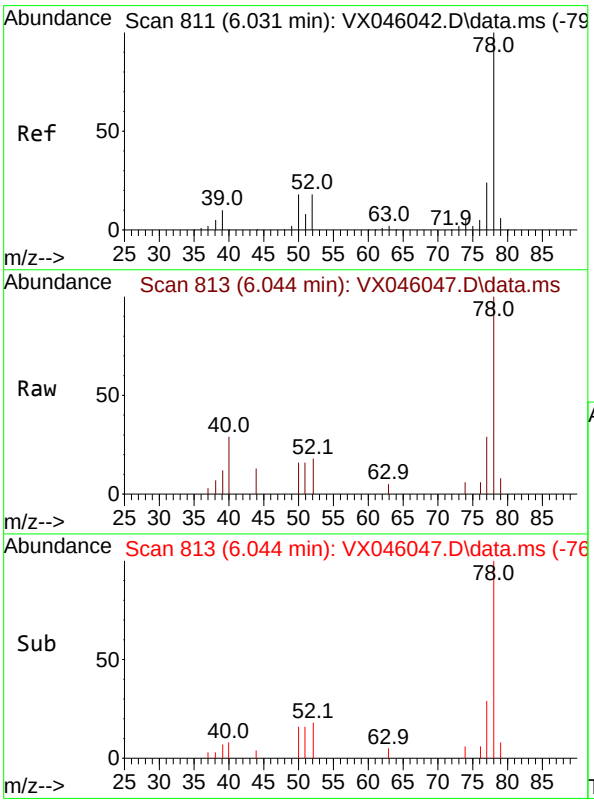
#39
Methylcyclohexane
Concen: 0.770 ug/l
RT: 7.373 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 83 Resp: 2096

Ion	Ratio	Lower	Upper
83	100		
55	80.1	64.7	97.1
98	41.9	37.4	56.2

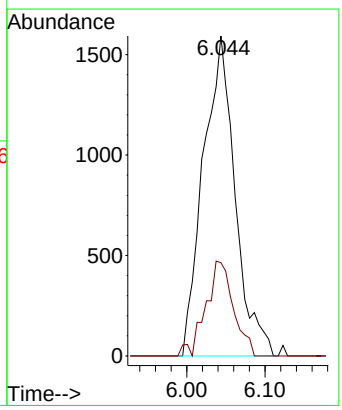


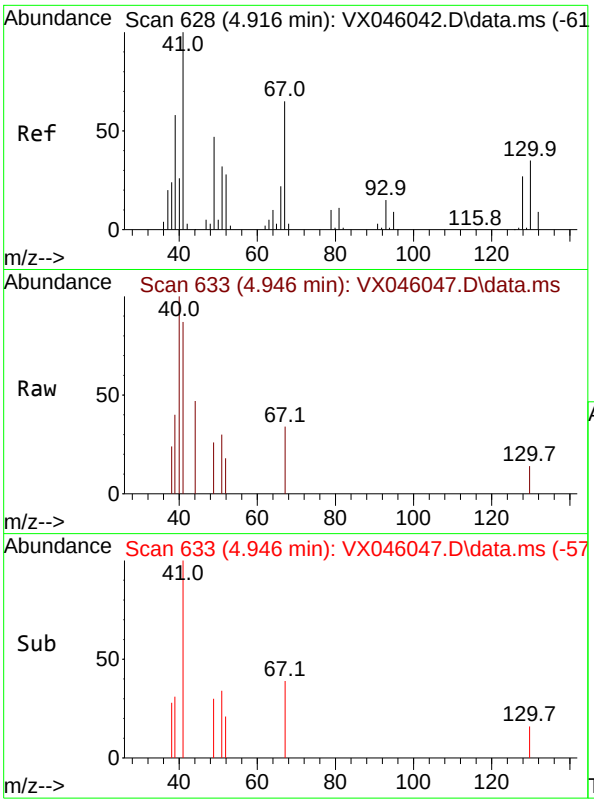


#40
Benzene
Concen: 0.668 ug/l
RT: 6.044 min Scan# 813
Delta R.T. 0.012 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 78 Resp: 4502

Ion	Ratio	Lower	Upper
78	100		
77	29.1	19.0	28.4#



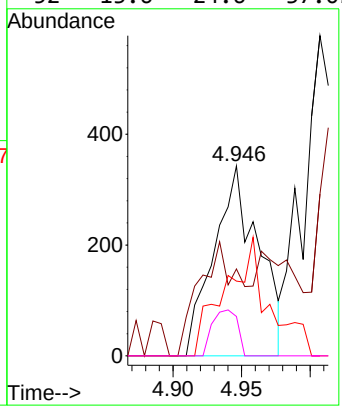


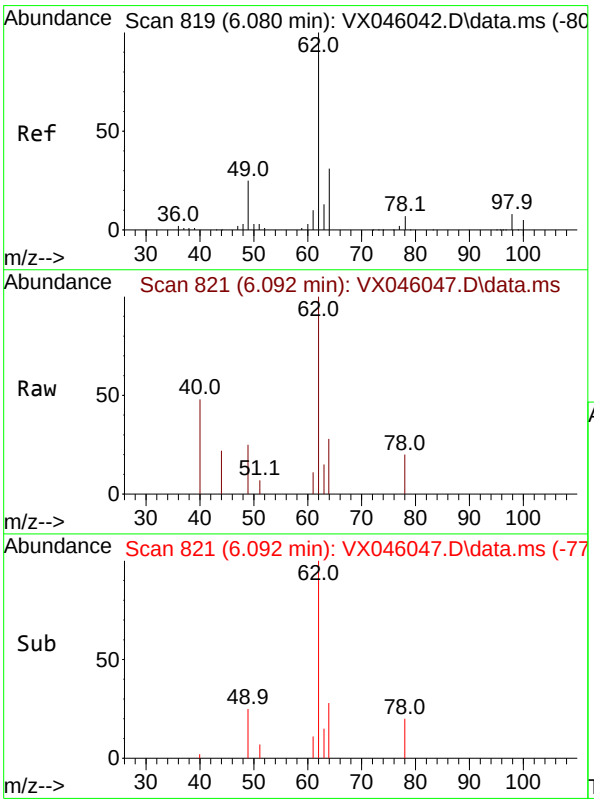
#41
Methacrylonitrile
Concen: 0.513 ug/l
RT: 4.946 min Scan# 6
Delta R.T. 0.030 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 41 Resp: 778

Ion	Ratio	Lower	Upper
41	100		
39	51.7	47.2	70.8
67	0.0	50.7	76.1#
52	13.6	24.6	37.0#

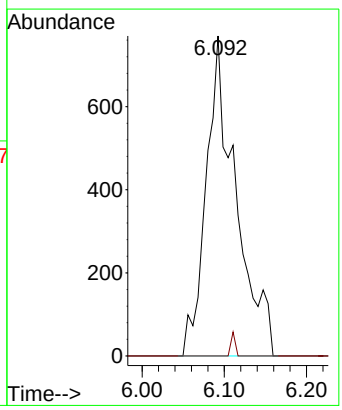


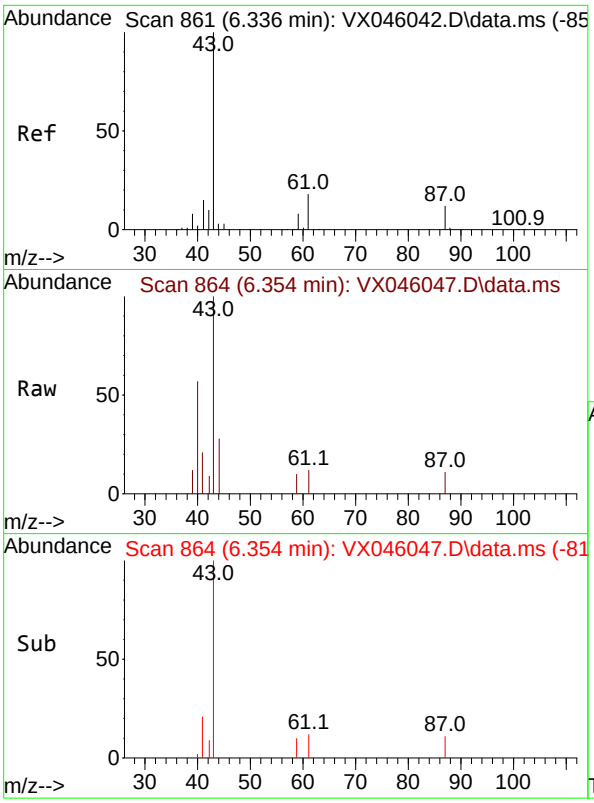


#42
1,2-Dichloroethane
Concen: 0.694 ug/l
RT: 6.092 min Scan# 821
Delta R.T. 0.012 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 62 Resp: 1934

Ion	Ratio	Lower	Upper
62	100		
98	1.1	0.0	15.2



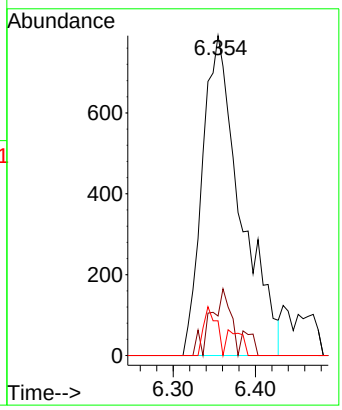


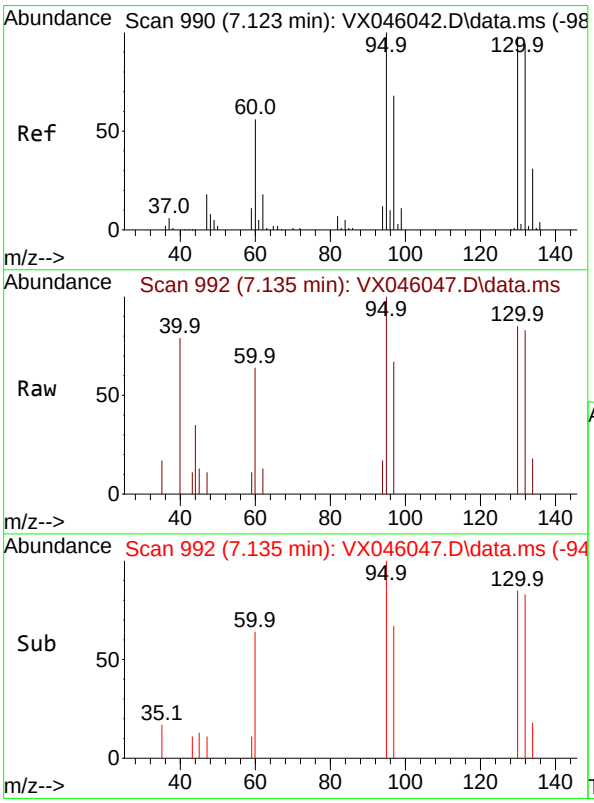
#43
Isopropyl Acetate
Concen: 0.612 ug/l
RT: 6.354 min Scan# 8
Delta R.T. 0.018 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 2553

Ion	Ratio	Lower	Upper
43	100		
61	10.7	14.3	21.5#
87	3.2	9.5	14.3#

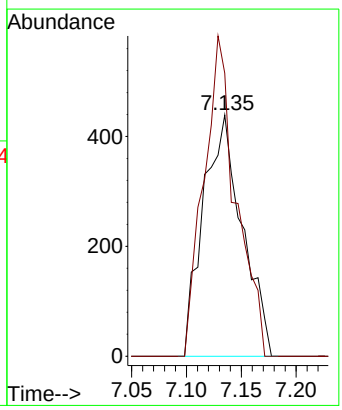


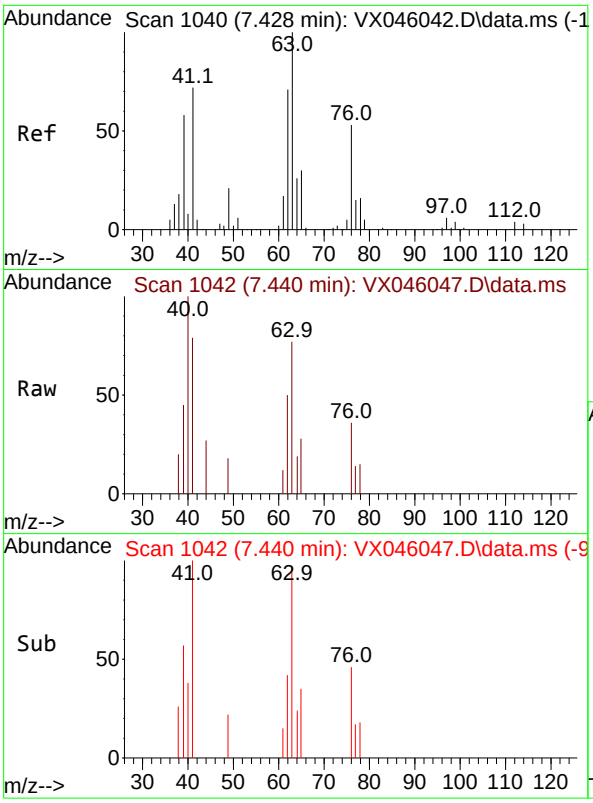


#44
Trichloroethene
Concen: 0.680 ug/l
RT: 7.135 min Scan# 992
Delta R.T. 0.012 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion:130 Resp: 1083

Ion	Ratio	Lower	Upper
130	100		
95	117.3	0.0	204.2



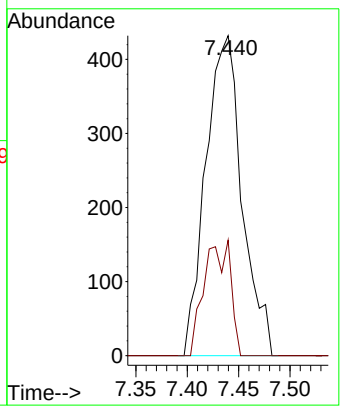


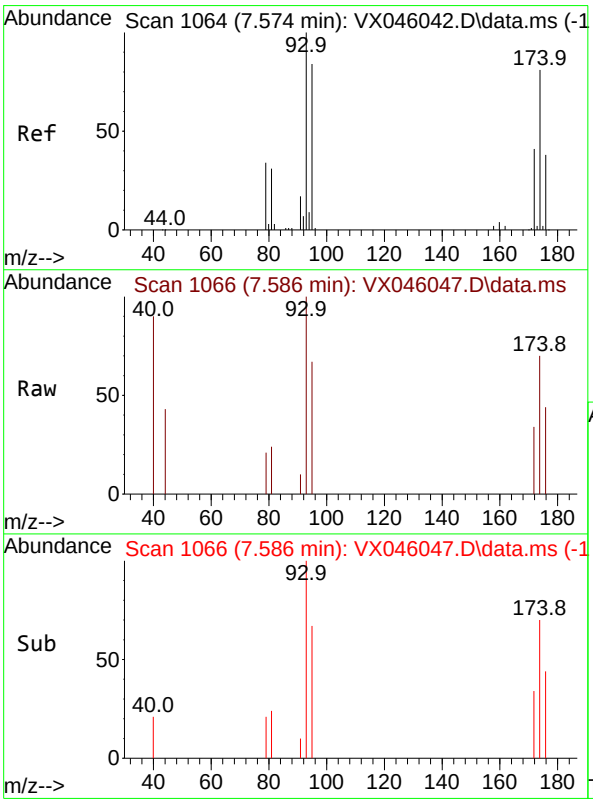
#45
1,2-Dichloropropane
Concen: 0.633 ug/l
RT: 7.440 min Scan# 1
Delta R.T. 0.012 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 63 Resp: 1059

Ion	Ratio	Lower	Upper
63	100		
65	36.1	24.1	36.1

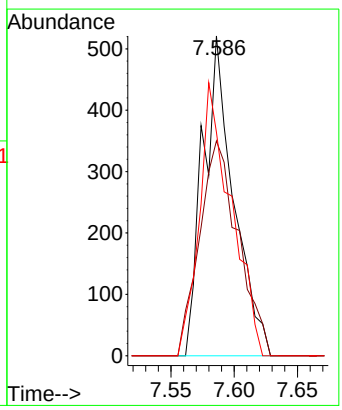


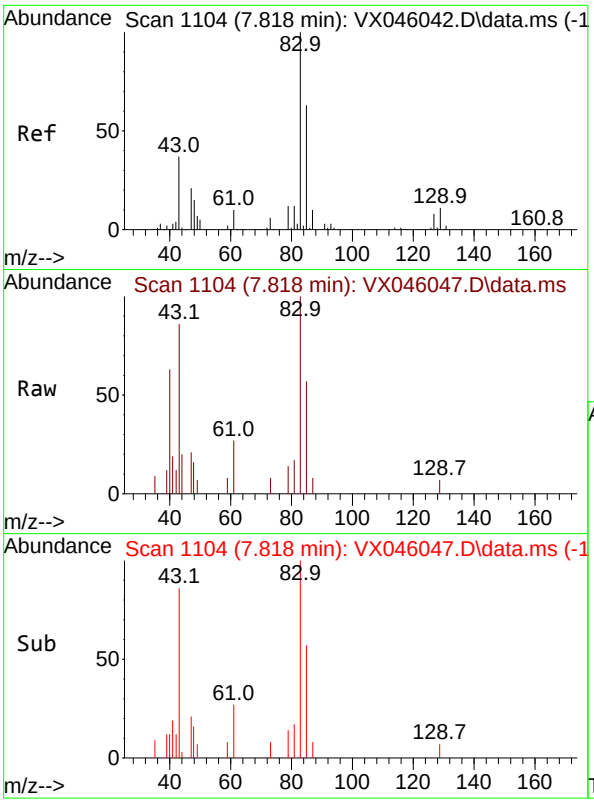


#46
Dibromomethane
Concen: 0.667 ug/l
RT: 7.586 min Scan# 1066
Delta R.T. 0.012 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 93 Resp: 880

Ion	Ratio	Lower	Upper
93	100		
95	84.5	65.6	98.4
174	88.5	68.2	102.2



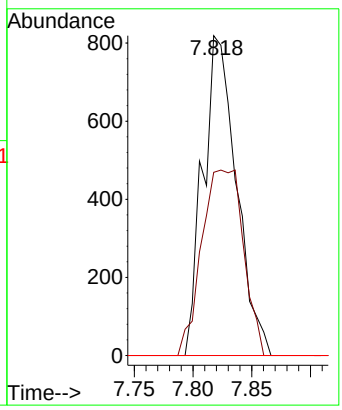


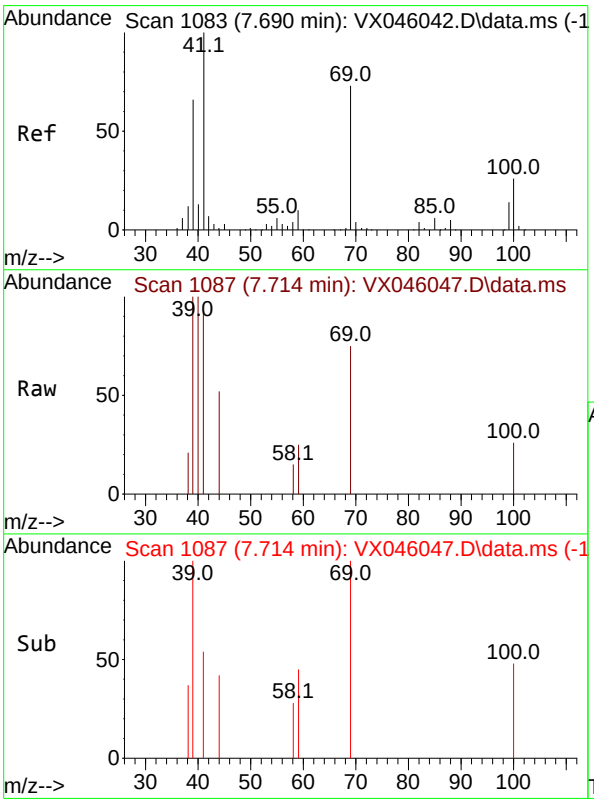
#47
Bromodichloromethane
Concen: 0.633 ug/l
RT: 7.818 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 83 Resp: 1620

Ion	Ratio	Lower	Upper
83	100		
85	57.3	50.5	75.7
127	0.0	6.5	9.7#

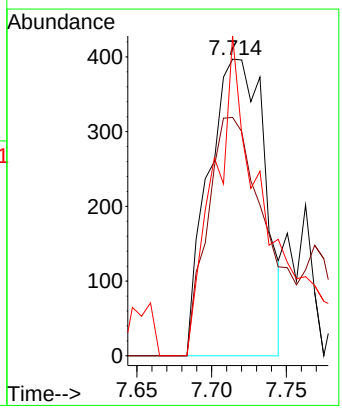


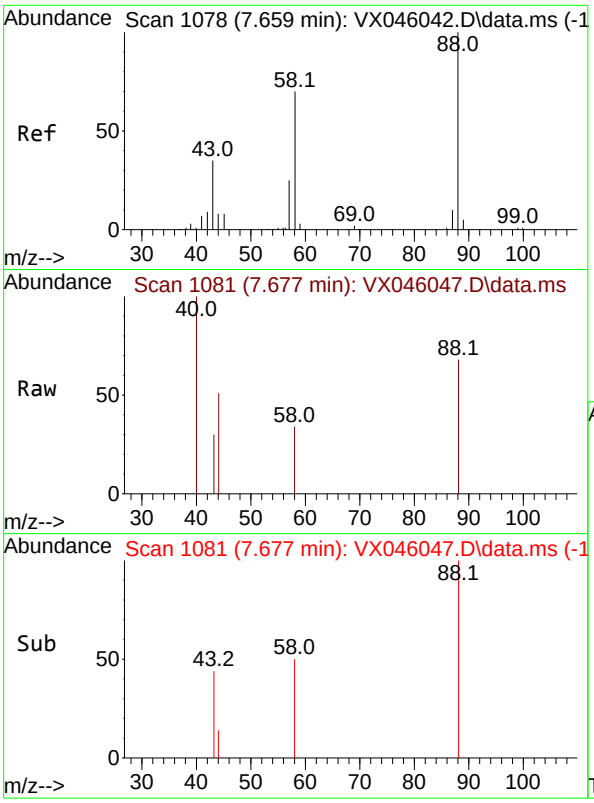


#48
Methyl methacrylate
Concen: 0.483 ug/l
RT: 7.714 min Scan# 1087
Delta R.T. 0.024 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 41 Resp: 1033

Ion	Ratio	Lower	Upper
41	100		
69	84.4	58.5	87.7
39	101.4	51.7	77.5#



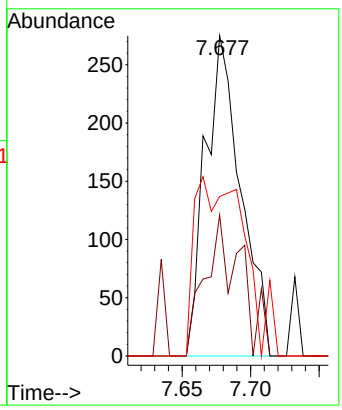


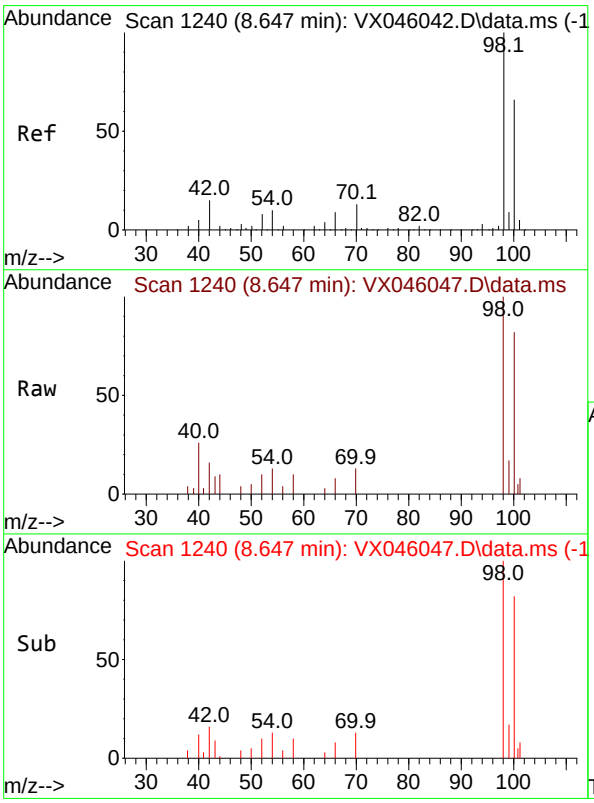
#49
1,4-Dioxane
Concen: 11.703 ug/l
RT: 7.677 min Scan# 1
Delta R.T. 0.018 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 88 Resp: 498

Ion	Ratio	Lower	Upper
88	100		
43	44.4	33.4	50.2
58	30.3	58.6	88.0#

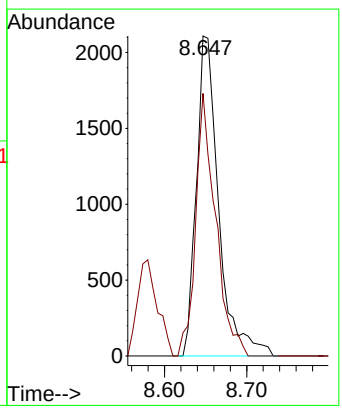


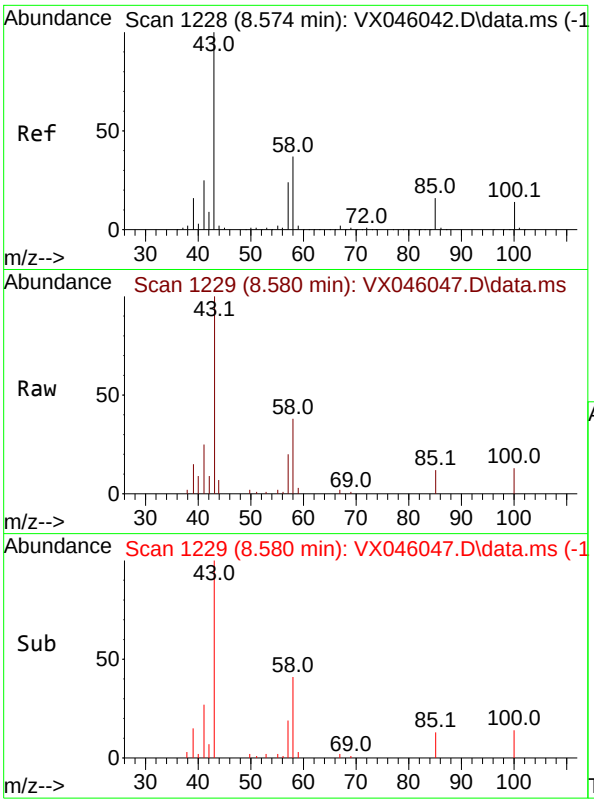


#50
Toluene-d8
Concen: 0.628 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 98 Resp: 3964

Ion	Ratio	Lower	Upper
98	100		
100	73.5	53.5	80.3



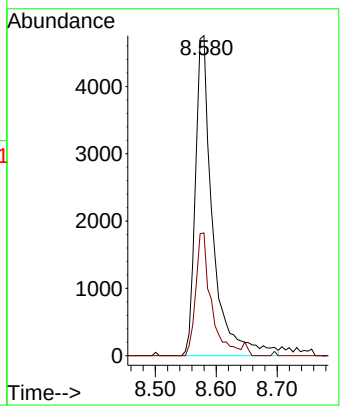


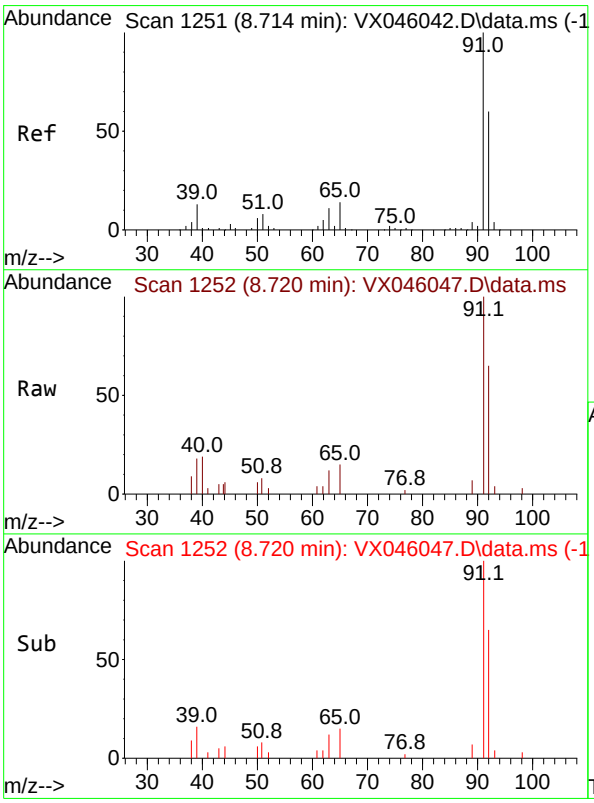
#51
4-Methyl-2-Pentanone
Concen: 3.430 ug/l
RT: 8.580 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 9378

Ion	Ratio	Lower	Upper
43	100		
58	34.4	28.9	43.3

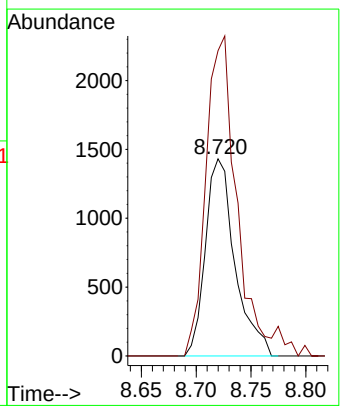


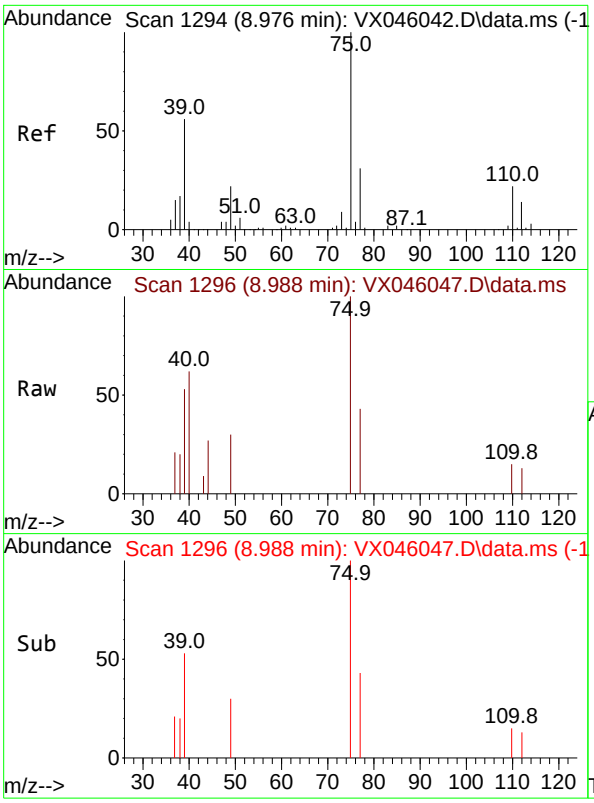


#52
Toluene
Concen: 0.672 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 92 Resp: 2684

Ion	Ratio	Lower	Upper
92	100		
91	165.7	136.6	205.0



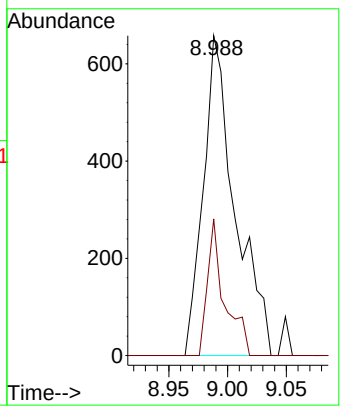


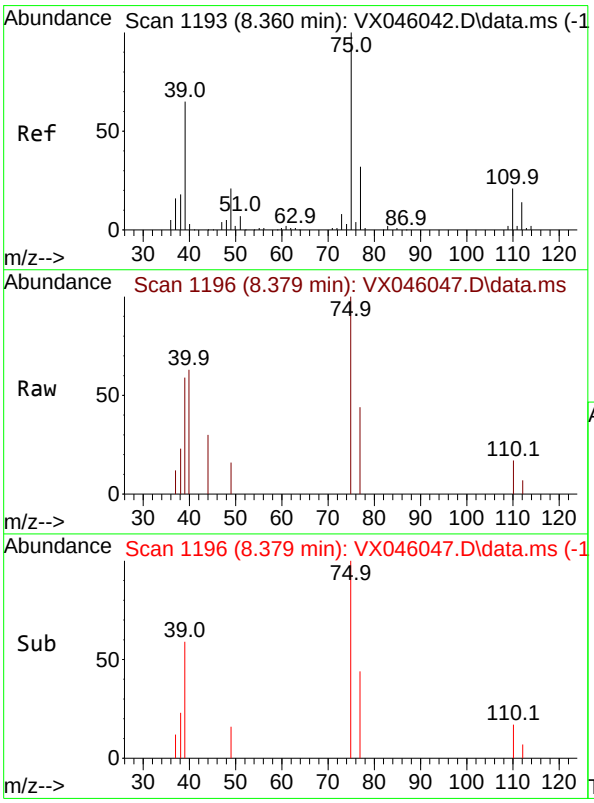
#53
t-1,3-Dichloropropene
Concen: 0.576 ug/l
RT: 8.988 min Scan# 1
Delta R.T. 0.012 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 75 Resp: 1238

Ion	Ratio	Lower	Upper
75	100		
77	42.7	25.0	37.6#

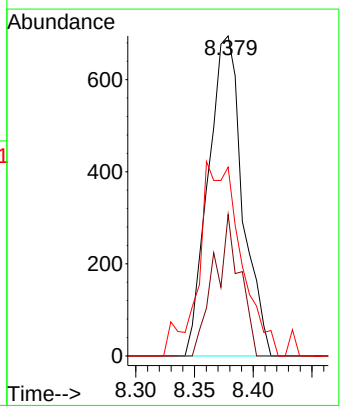


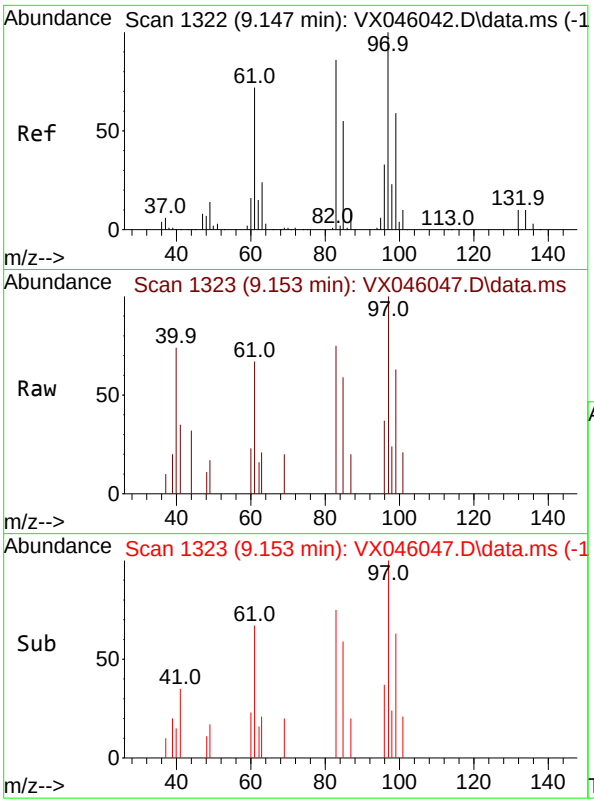


#54
cis-1,3-Dichloropropene
Concen: 0.564 ug/l
RT: 8.379 min Scan# 1196
Delta R.T. 0.018 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 75 Resp: 1414

Ion	Ratio	Lower	Upper
75	100		
77	44.2	25.4	38.0#
39	59.0	52.2	78.4



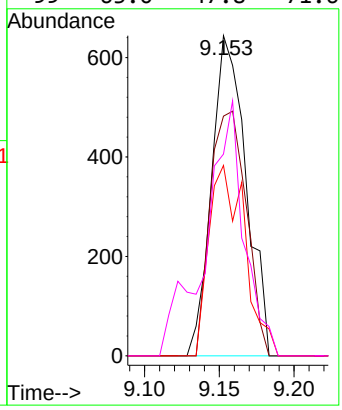


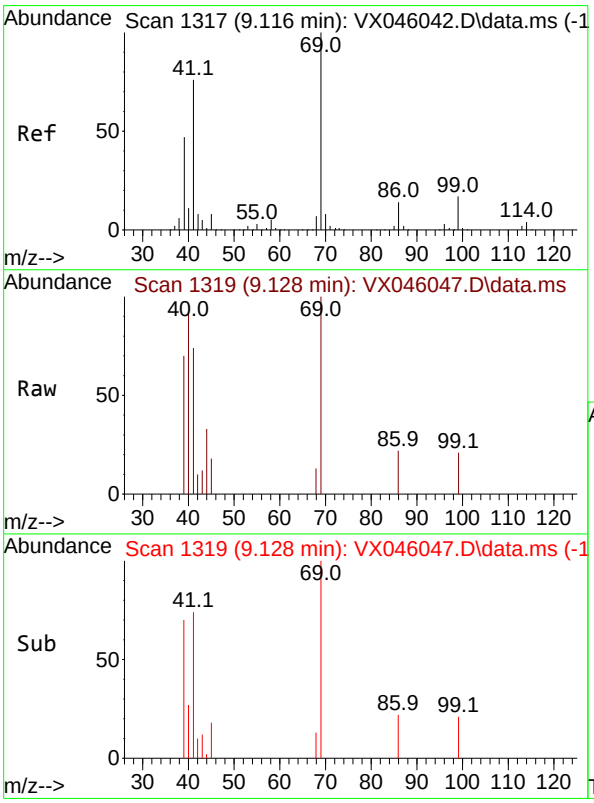
#55
1,1,2-Trichloroethane
Concen: 0.637 ug/l
RT: 9.153 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 97 Resp: 1029

Ion	Ratio	Lower	Upper
97	100		
83	74.8	69.0	103.6
85	59.5	44.3	66.5
99	63.0	47.8	71.6

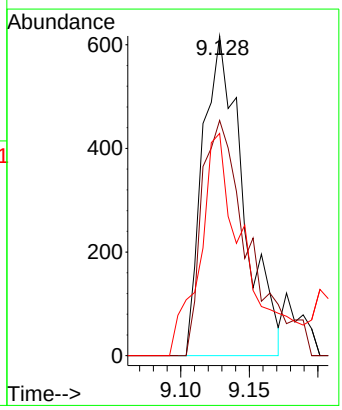


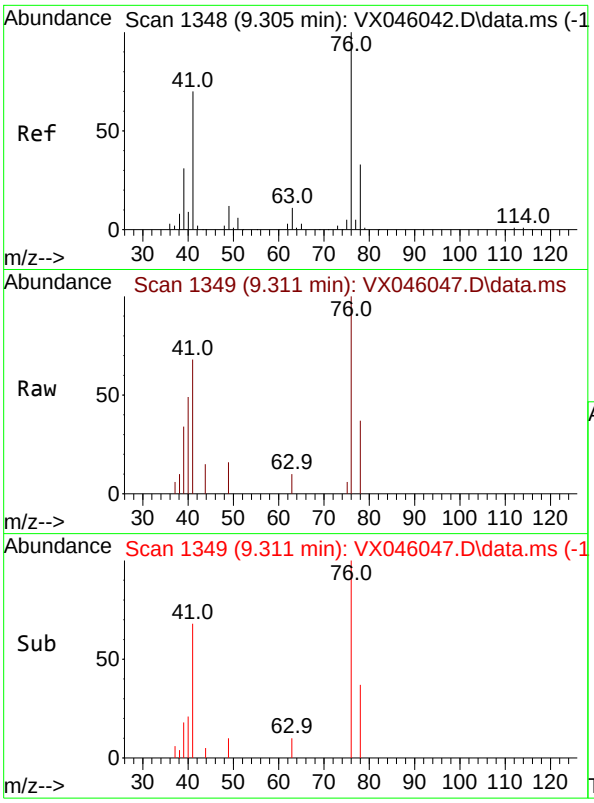


#56
Ethyl methacrylate
Concen: 0.504 ug/l
RT: 9.128 min Scan# 1319
Delta R.T. 0.012 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 69 Resp: 1260

Ion	Ratio	Lower	Upper
69	100		
41	86.6	60.8	91.2
39	78.0	39.0	58.6#



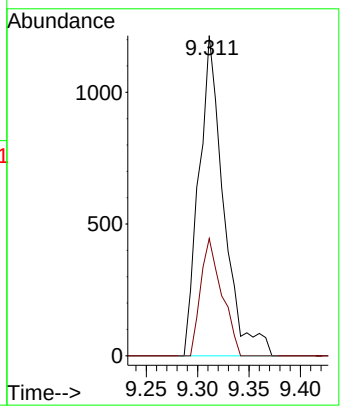


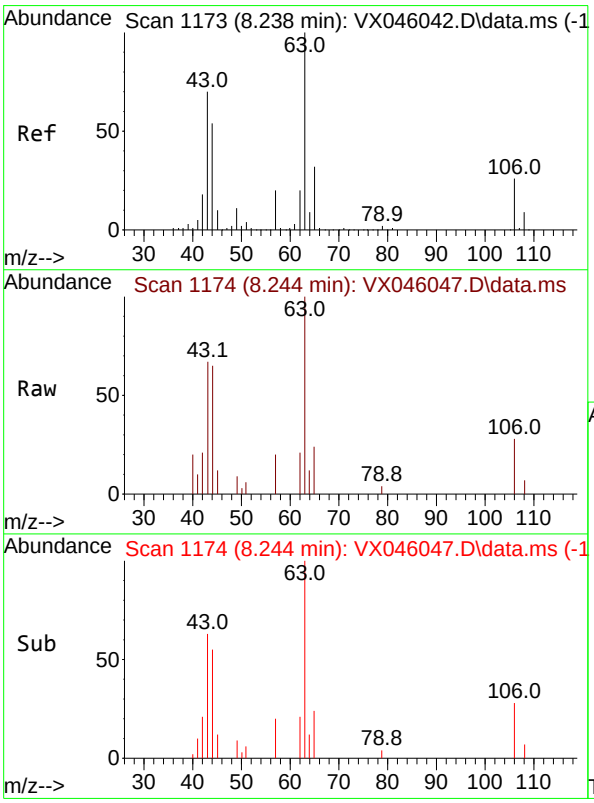
#57
1,3-Dichloropropane
Concen: 0.711 ug/l
RT: 9.311 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 76 Resp: 2036

Ion	Ratio	Lower	Upper
76	100		
78	31.4	26.3	39.5

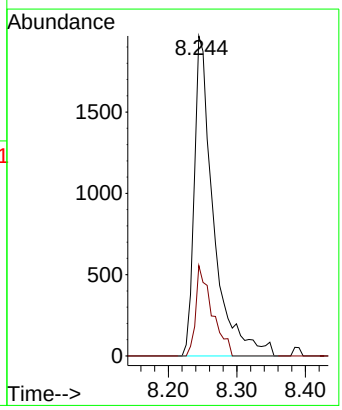


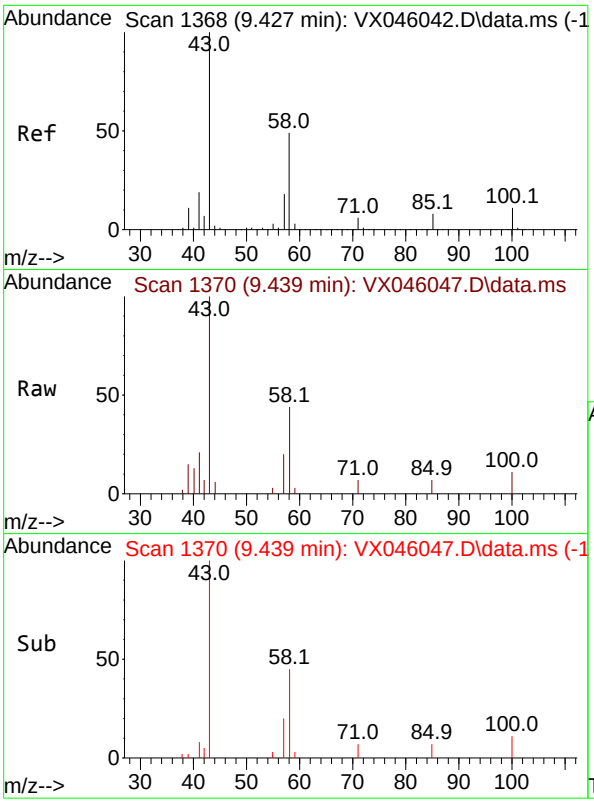


#58
2-Chloroethyl Vinyl ether
Concen: 3.420 ug/l
RT: 8.244 min Scan# 1174
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 63 Resp: 3846

Ion	Ratio	Lower	Upper
63	100		
106	24.0	21.5	32.3



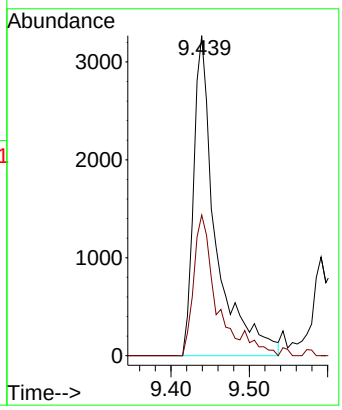


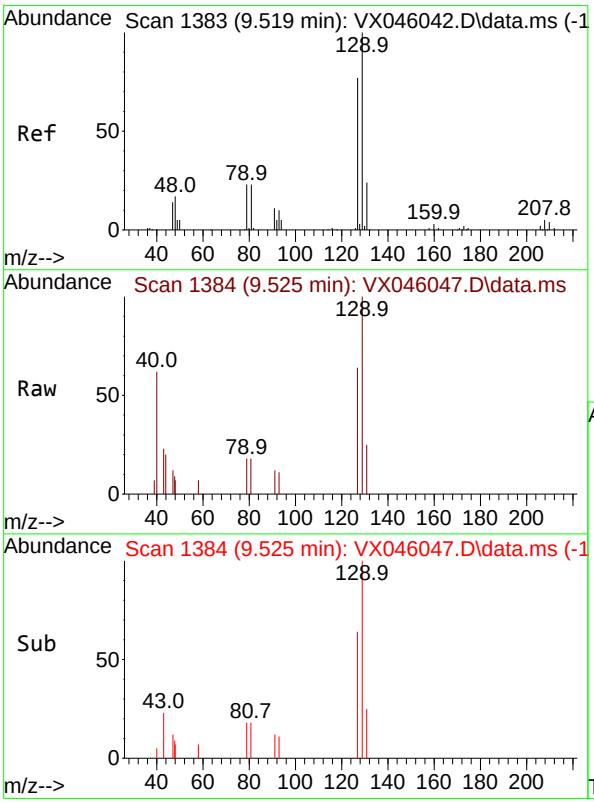
#59
2-Hexanone
Concen: 3.096 ug/l
RT: 9.439 min Scan# 1
Delta R.T. 0.012 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 6424

Ion	Ratio	Lower	Upper
43	100		
58	41.6	24.9	74.6

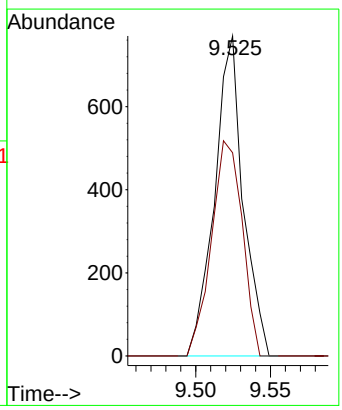


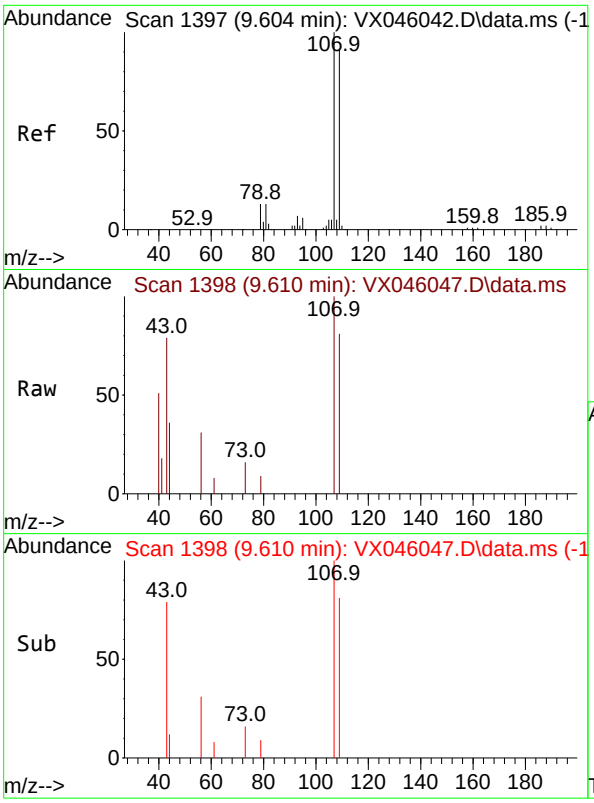


#60
Dibromochloromethane
Concen: 0.582 ug/l
RT: 9.525 min Scan# 1384
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion:129 Resp: 1023

Ion	Ratio	Lower	Upper
129	100		
127	72.5	39.3	117.8



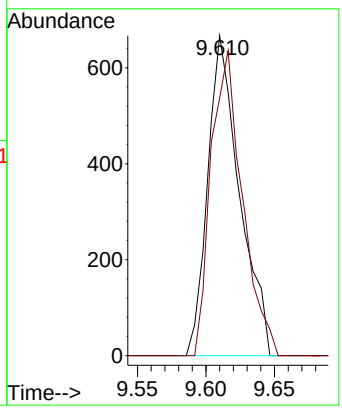


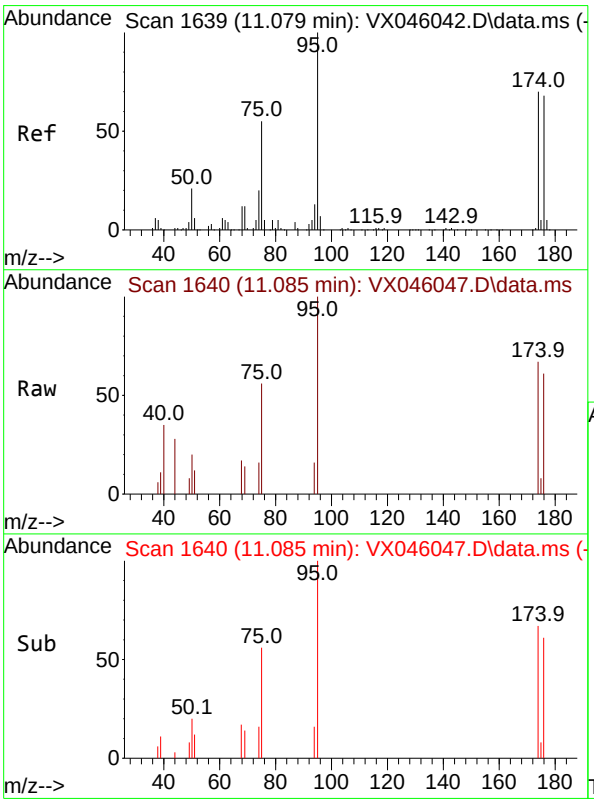
#61
1,2-Dibromoethane
Concen: 0.650 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:107 Resp: 1077

Ion	Ratio	Lower	Upper
107	100		
109	94.0	73.3	109.9

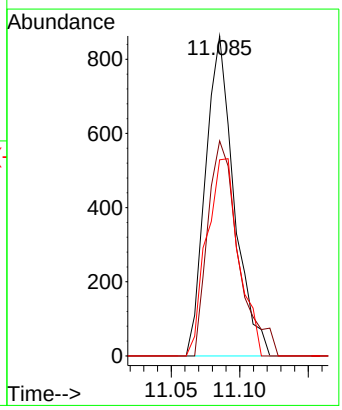


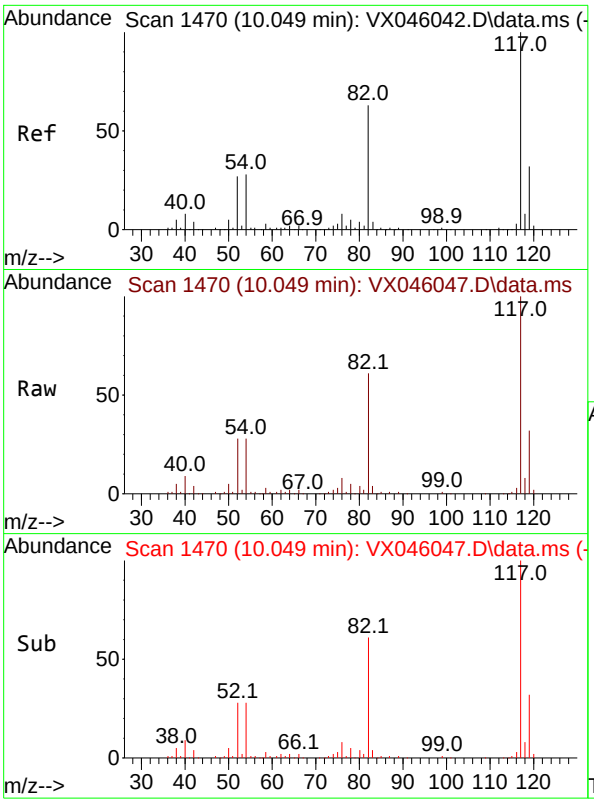


#62
4-Bromofluorobenzene
Concen: 0.545 ug/l
RT: 11.085 min Scan# 1640
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 95 Resp: 1250

Ion	Ratio	Lower	Upper
95	100		
174	72.2	0.0	135.8
176	68.9	0.0	131.4



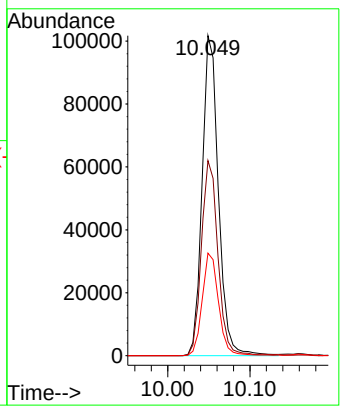


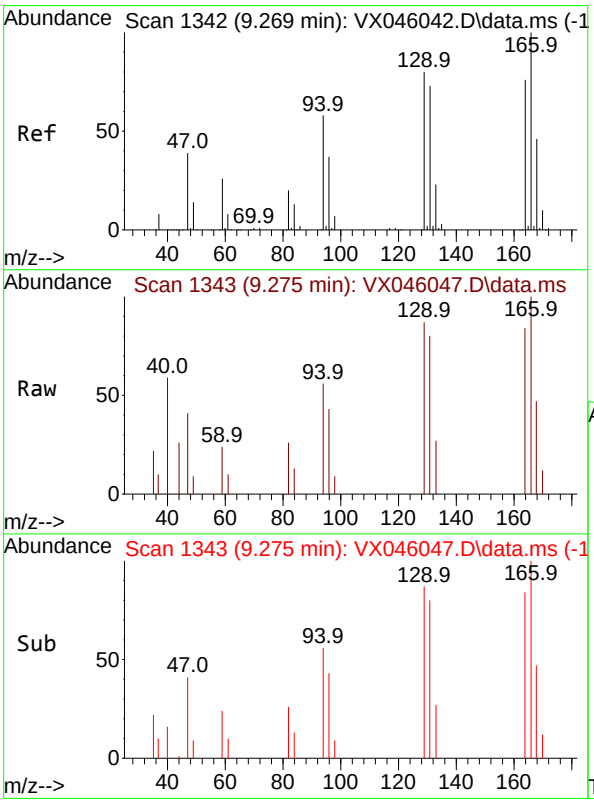
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:117 Resp: 140108

Ion	Ratio	Lower	Upper
117	100		
82	61.0	50.6	76.0
119	32.1	25.8	38.6

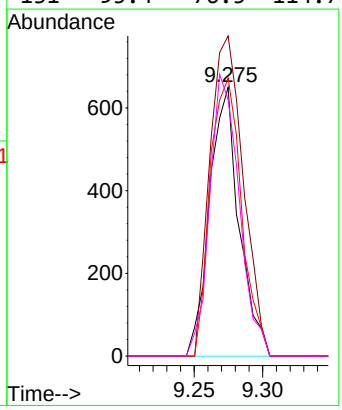


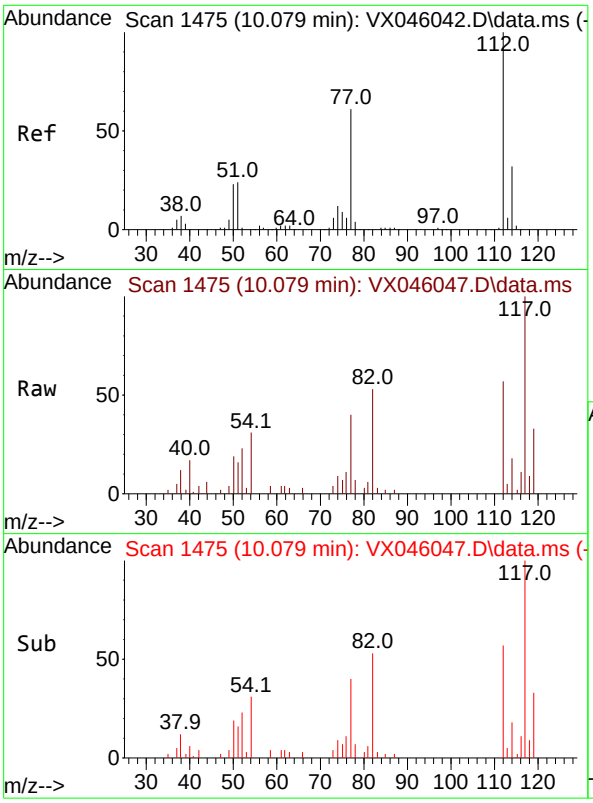


#64
Tetrachloroethene
Concen: 0.679 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion:164 Resp: 972

Ion	Ratio	Lower	Upper
164	100		
166	119.1	105.0	157.6
129	103.4	83.5	125.3
131	95.4	76.5	114.7



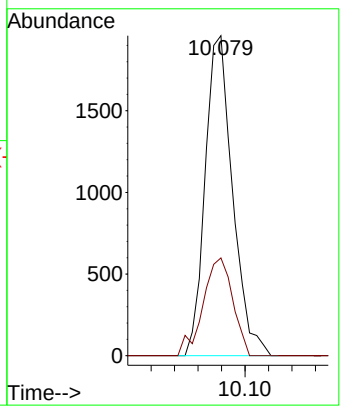


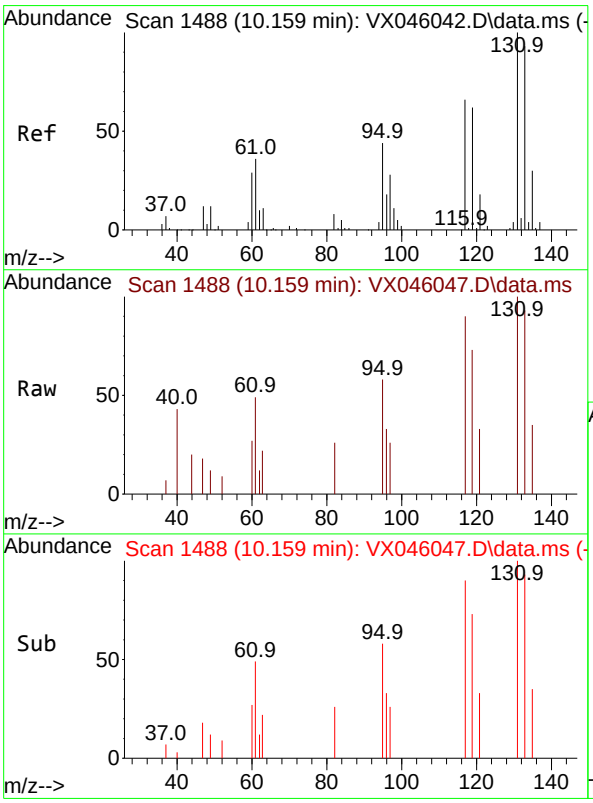
#65
Chlorobenzene
Concen: 0.735 ug/l
RT: 10.079 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:112 Resp: 3170

Ion	Ratio	Lower	Upper
112	100		
114	30.6	25.4	38.2

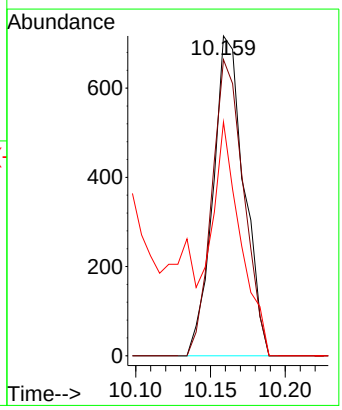


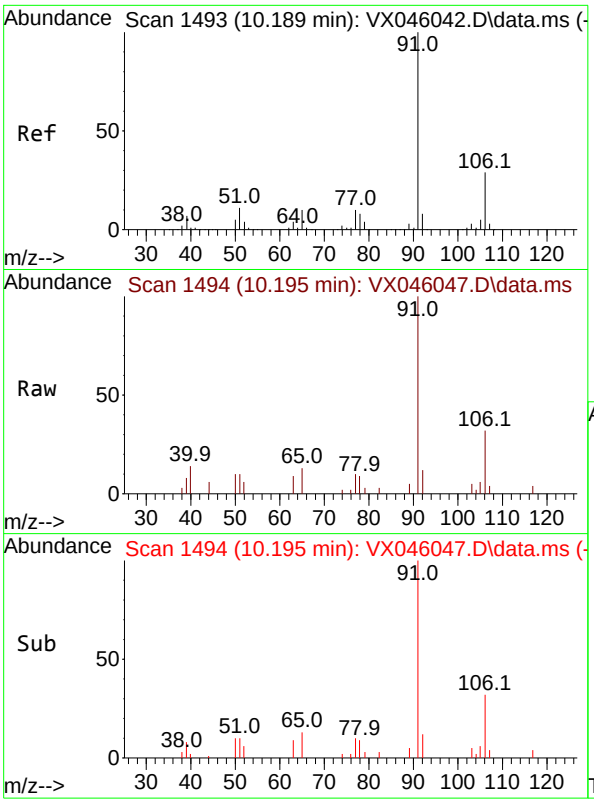


#66
1,1,1,2-Tetrachloroethane
Concen: 0.720 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion:131 Resp: 1035

Ion	Ratio	Lower	Upper
131	100		
133	94.9	47.3	141.9
119	0.0	31.6	95.0#



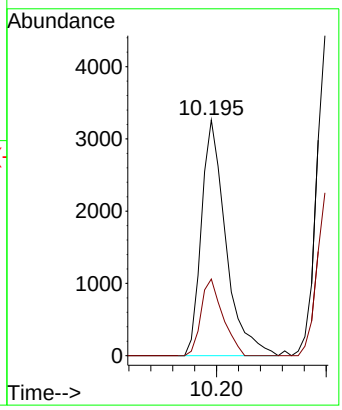


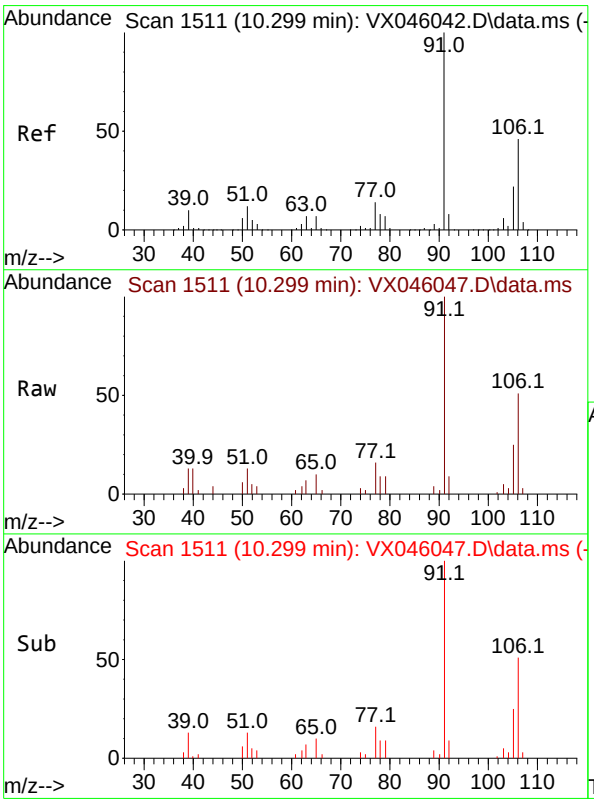
#67
Ethyl Benzene
Concen: 0.687 ug/l
RT: 10.195 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 91 Resp: 5052

Ion	Ratio	Lower	Upper
91	100		
106	32.5	23.4	35.2

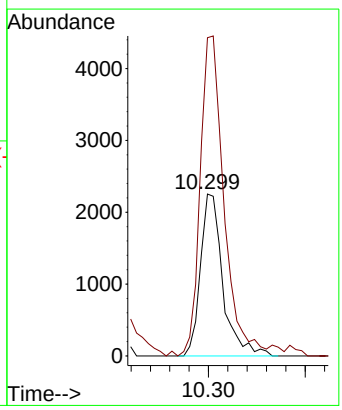


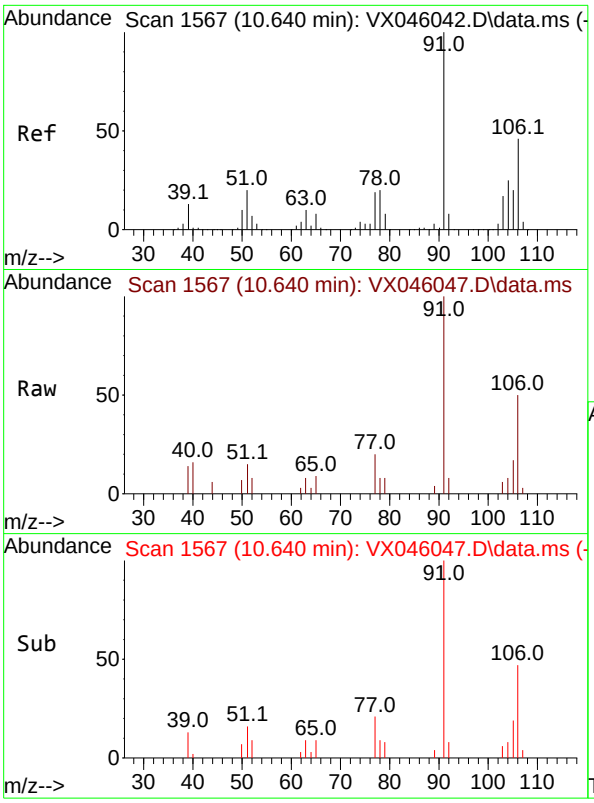


#68
m/p-Xylenes
Concen: 1.367 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion:106 Resp: 3630

Ion	Ratio	Lower	Upper
106	100		
91	209.8	171.2	256.8



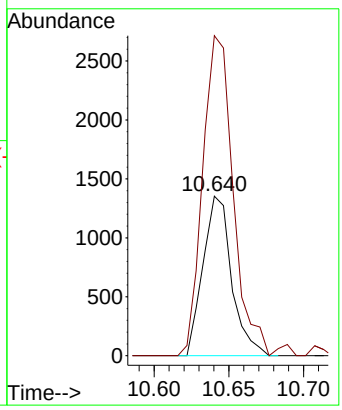


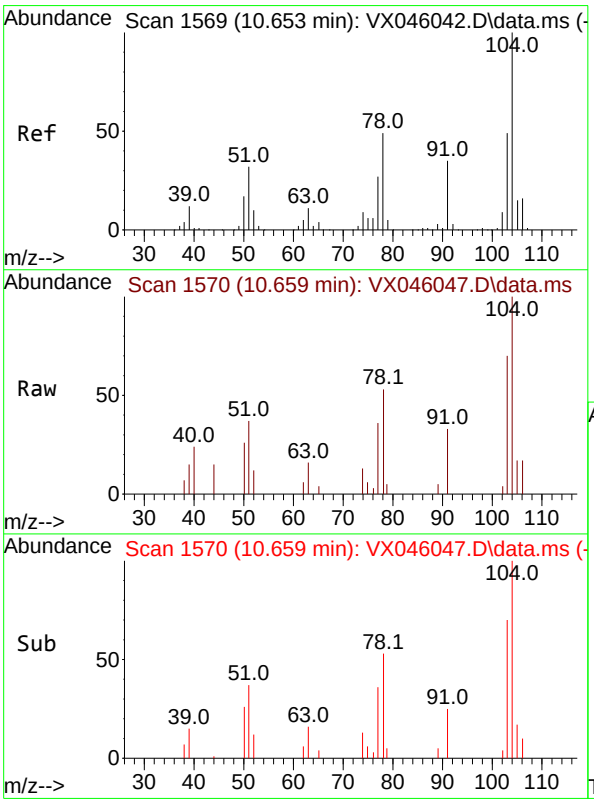
#69
o-Xylene
Concen: 0.672 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:106 Resp: 1799

Ion	Ratio	Lower	Upper
106	100		
91	214.9	112.7	338.1

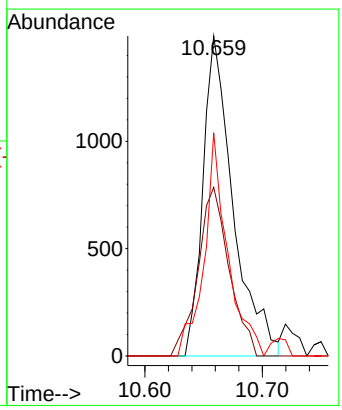


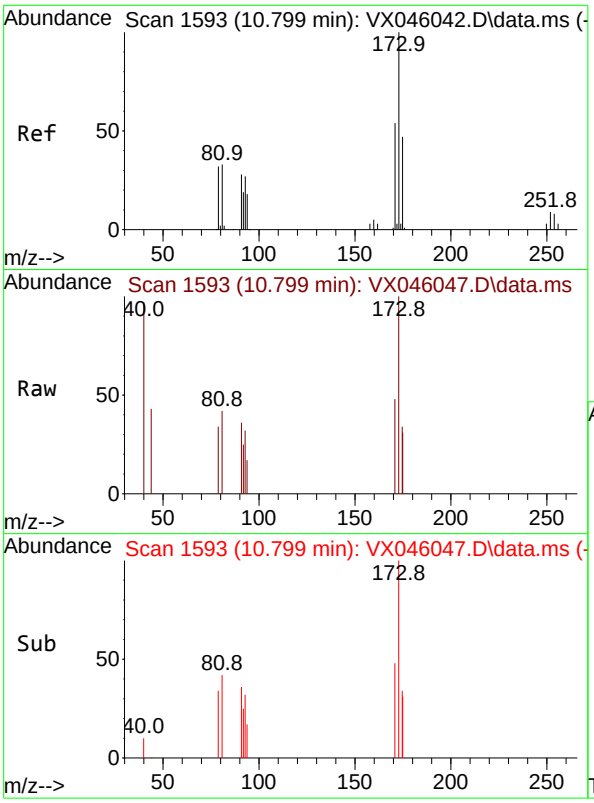


#70
Styrene
Concen: 0.622 ug/l
RT: 10.659 min Scan# 1570
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion:104 Resp: 2664

Ion	Ratio	Lower	Upper
104	100		
78	54.3	45.7	68.5
103	53.9	43.7	65.5



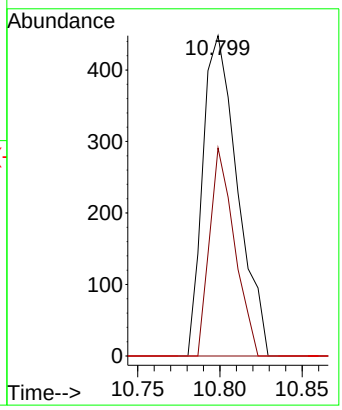


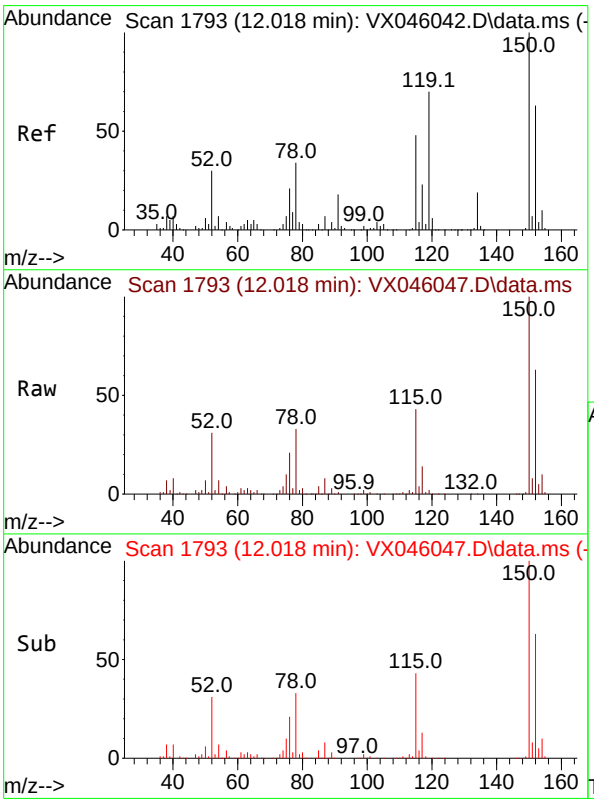
#71
Bromoform
Concen: 0.608 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:173 Resp: 657

Ion	Ratio	Lower	Upper
173	100		
175	46.6	23.4	70.0
254	0.0	0.0	0.0

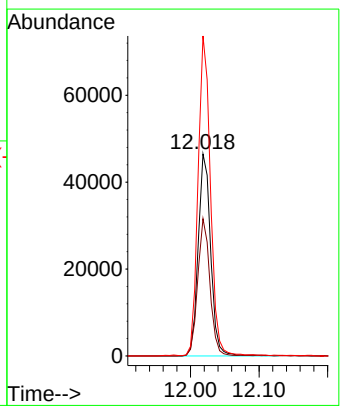


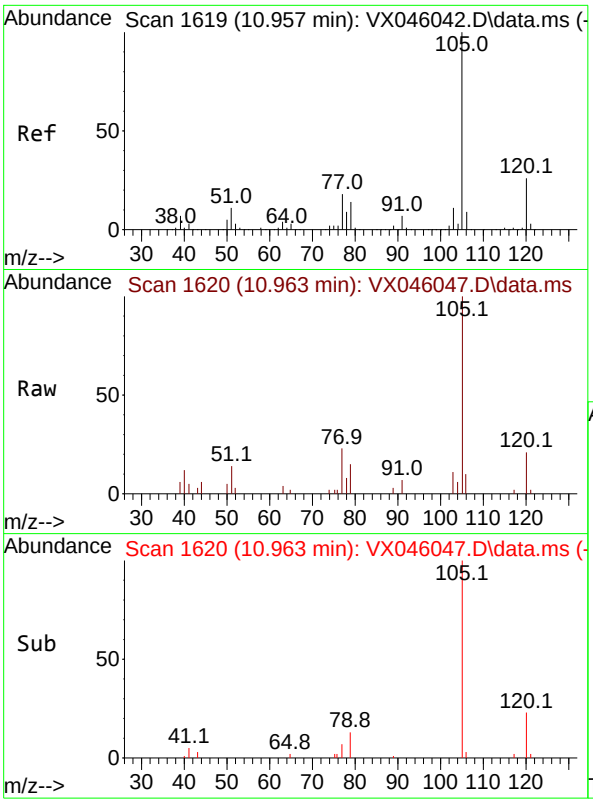


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion:152 Resp: 59123

Ion	Ratio	Lower	Upper
152	100		
115	66.6	46.9	140.7
150	156.3	0.0	351.0



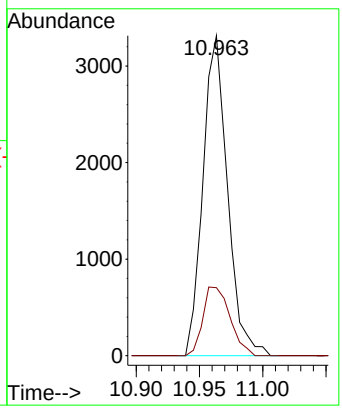


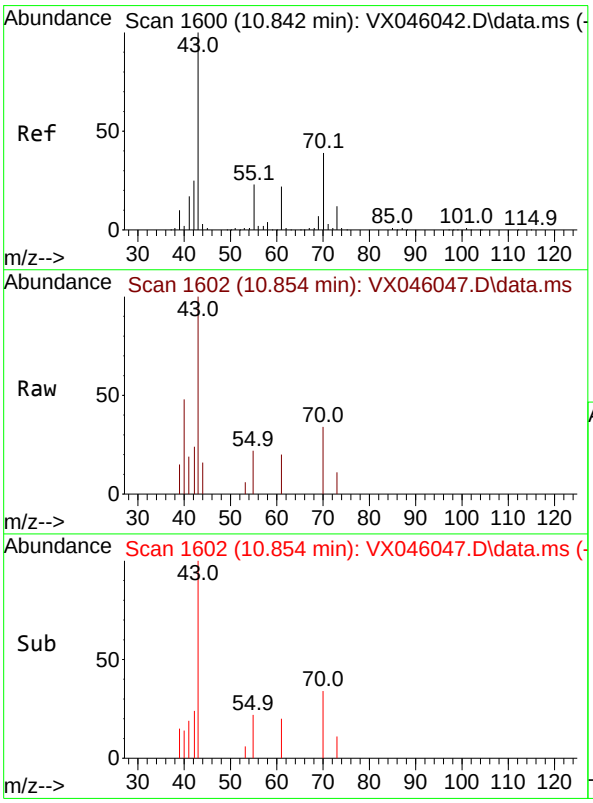
#73
Isopropylbenzene
Concen: 0.695 ug/l
RT: 10.963 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:105 Resp: 4480

Ion	Ratio	Lower	Upper
105	100		
120	23.7	12.8	38.4

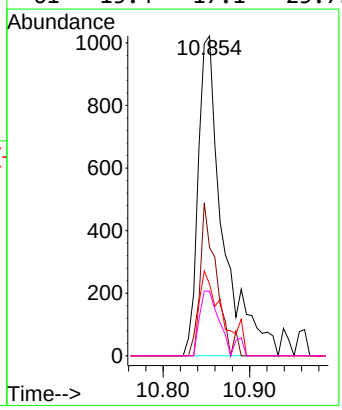


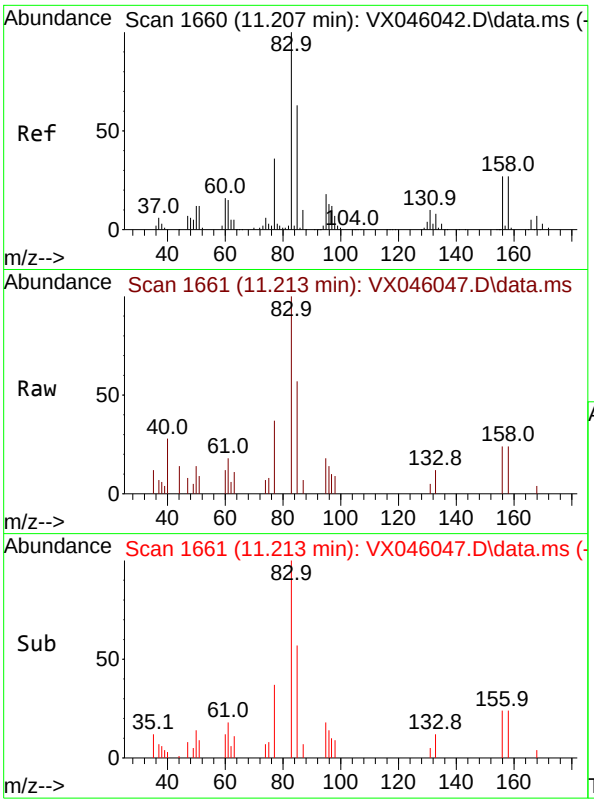


#74
N-amyl acetate
Concen: 0.631 ug/l
RT: 10.854 min Scan# 1602
Delta R.T. 0.012 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 43 Resp: 2028

Ion	Ratio	Lower	Upper
43	100		
70	31.5	30.9	46.3
55	24.5	18.7	28.1
61	15.4	17.1	25.7#



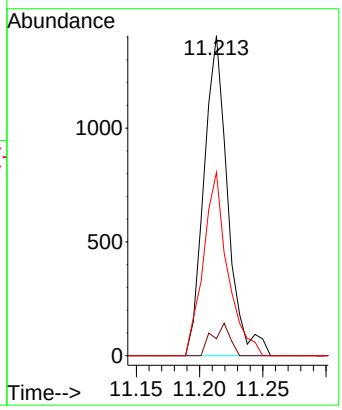


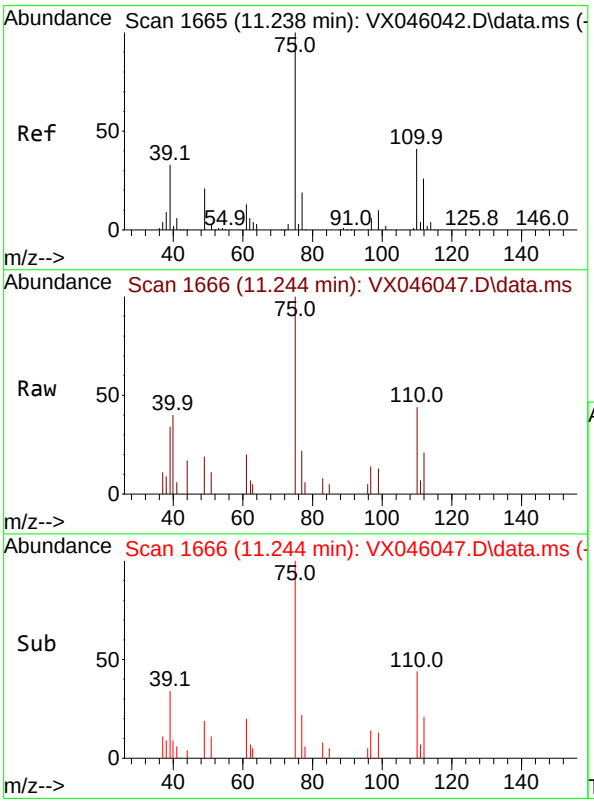
#75
1,1,2,2-Tetrachloroethane
Concen: 0.800 ug/l
RT: 11.213 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 83 Resp: 1835

Ion	Ratio	Lower	Upper
83	100		
131	7.5	5.0	14.9
85	58.7	31.9	95.7

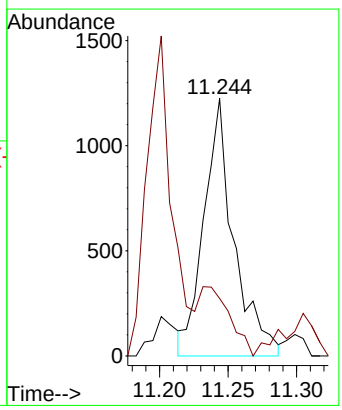


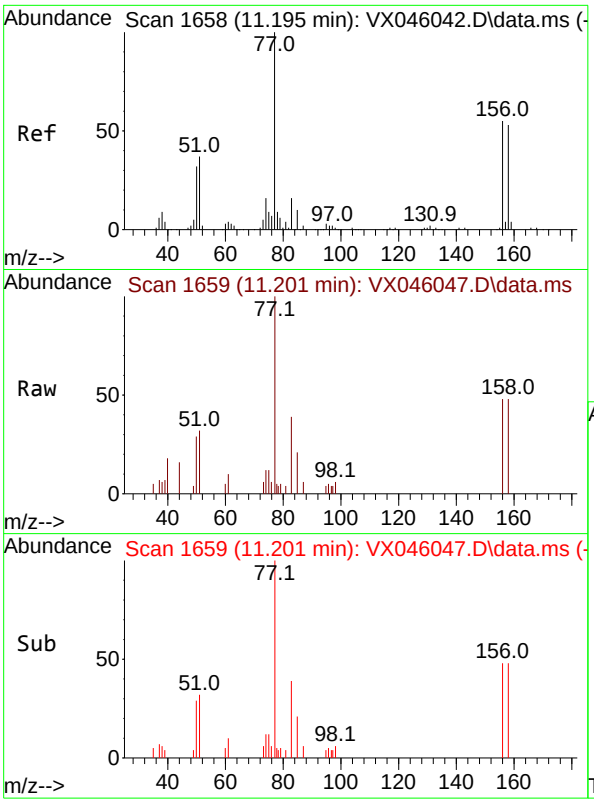


#76
1,2,3-Trichloropropane
Concen: 0.754 ug/l
RT: 11.244 min Scan# 1666
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 75 Resp: 1858

Ion	Ratio	Lower	Upper
75	100		
77	26.5	20.5	61.5



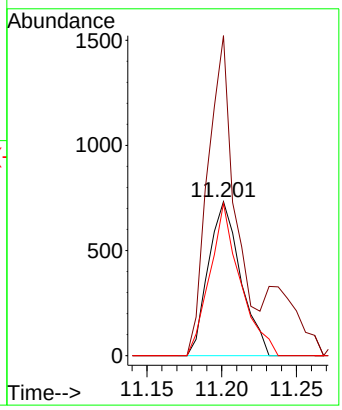


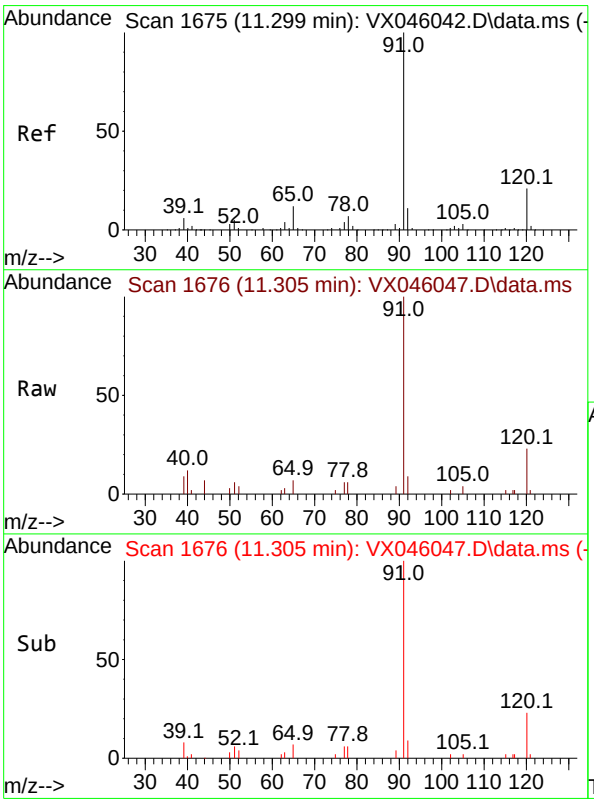
#77
Bromobenzene
Concen: 0.734 ug/l
RT: 11.201 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:156 Resp: 1095

Ion	Ratio	Lower	Upper
156	100		
77	179.5	92.8	278.3
158	93.5	48.8	146.3

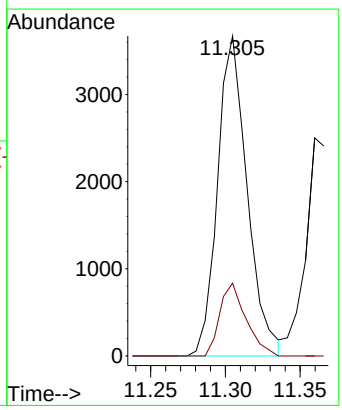


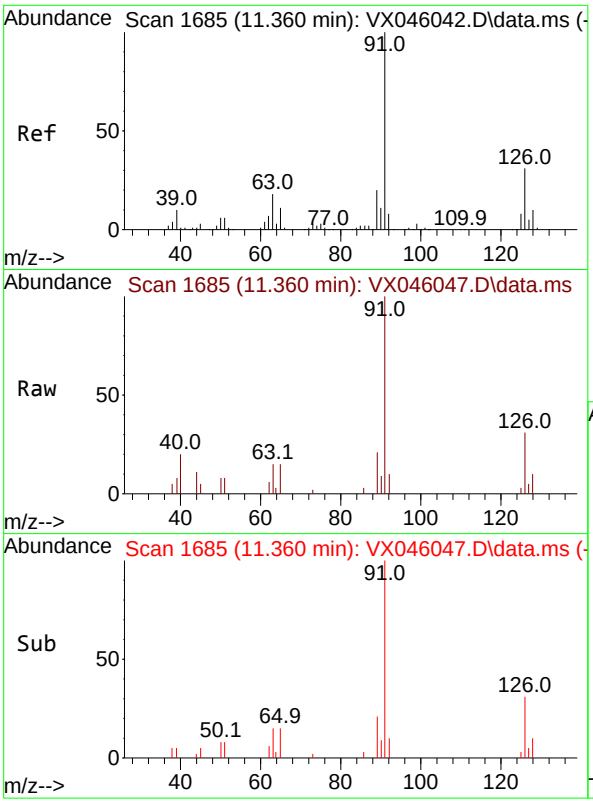


#78
n-propylbenzene
Concen: 0.699 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 91 Resp: 5052

Ion	Ratio	Lower	Upper
91	100		
120	20.1	10.8	32.4



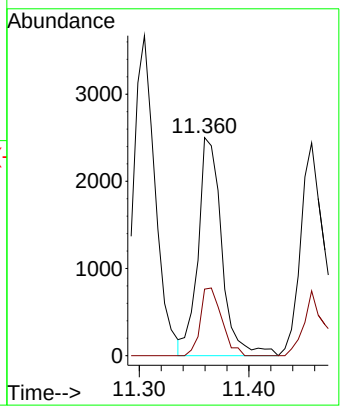


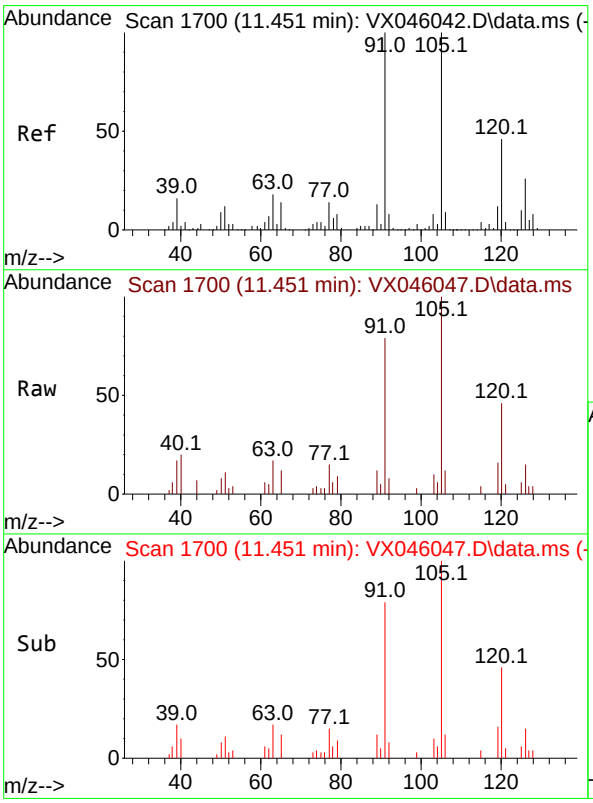
#79
2-Chlorotoluene
Concen: 0.773 ug/l
RT: 11.360 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 91 Resp: 3765

Ion	Ratio	Lower	Upper
91	100		
126	28.0	15.6	46.7

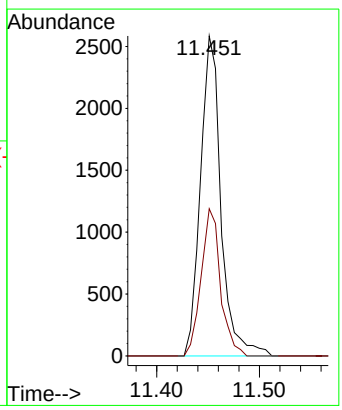


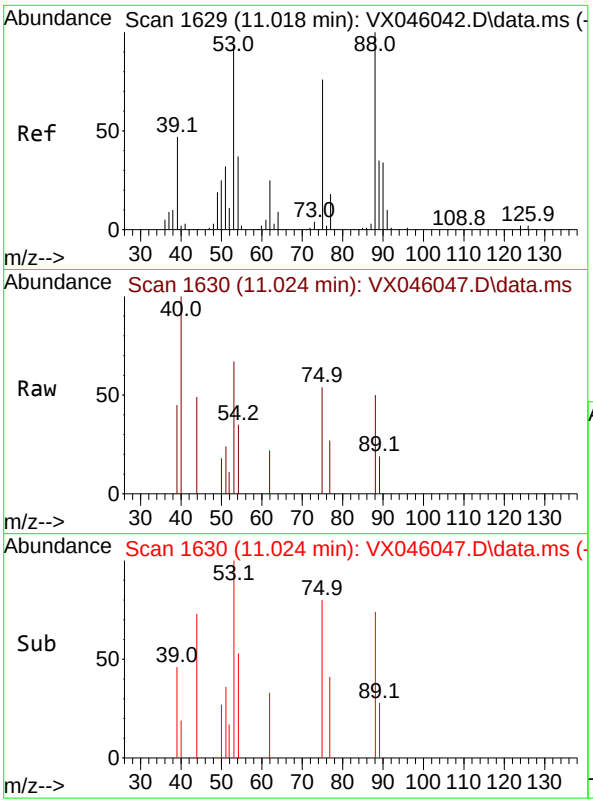


#80
1,3,5-Trimethylbenzene
Concen: 0.671 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion:105 Resp: 3590

Ion	Ratio	Lower	Upper
105	100		
120	43.4	23.1	69.2



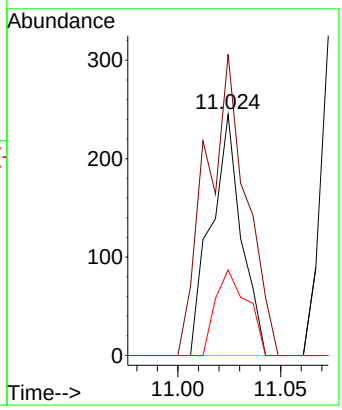


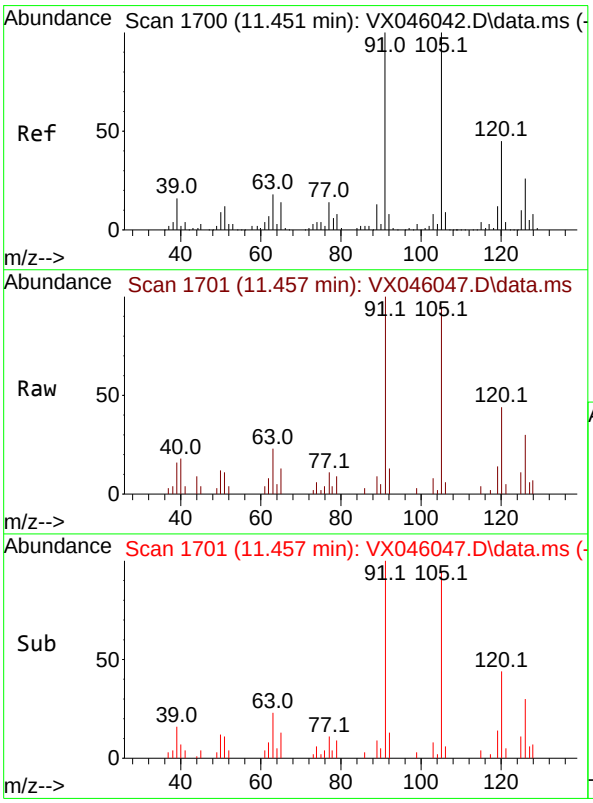
#81
trans-1,4-Dichloro-2-butene
Concen: 0.425 ug/l
RT: 11.024 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 75 Resp: 252

Ion	Ratio	Lower	Upper
75	100		
53	164.7	100.5	150.7#
89	37.3	37.0	55.6

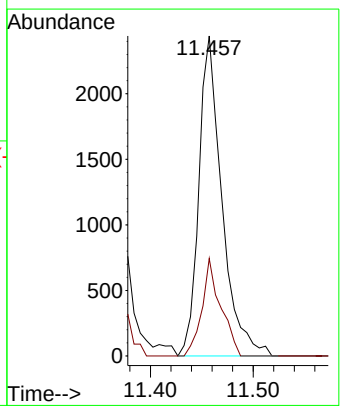


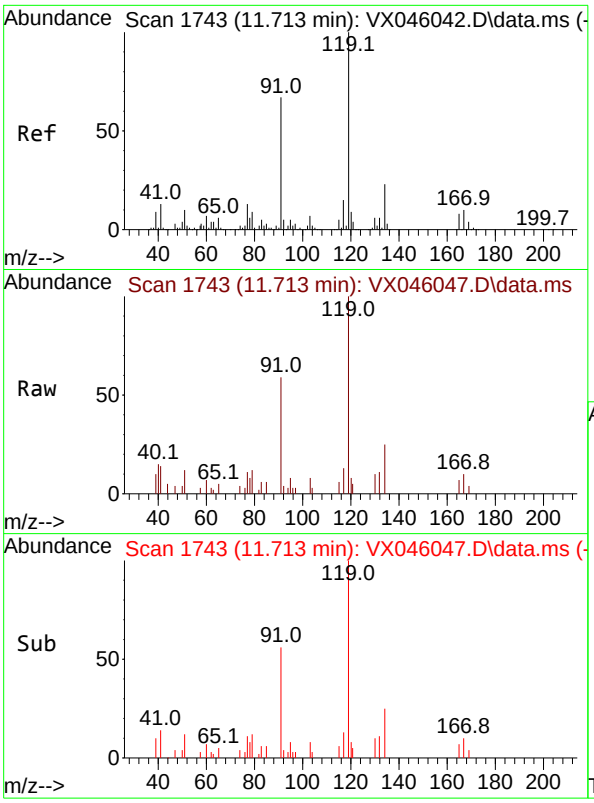


#82
4-Chlorotoluene
Concen: 0.713 ug/l
RT: 11.457 min Scan# 1701
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 91 Resp: 3815

Ion	Ratio	Lower	Upper
91	100		
126	24.8	13.3	39.8



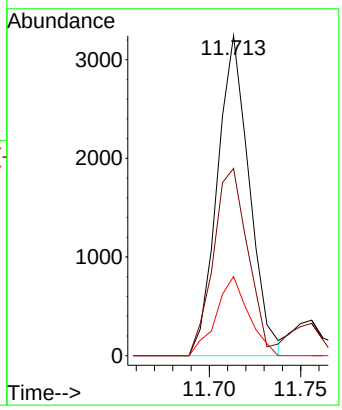


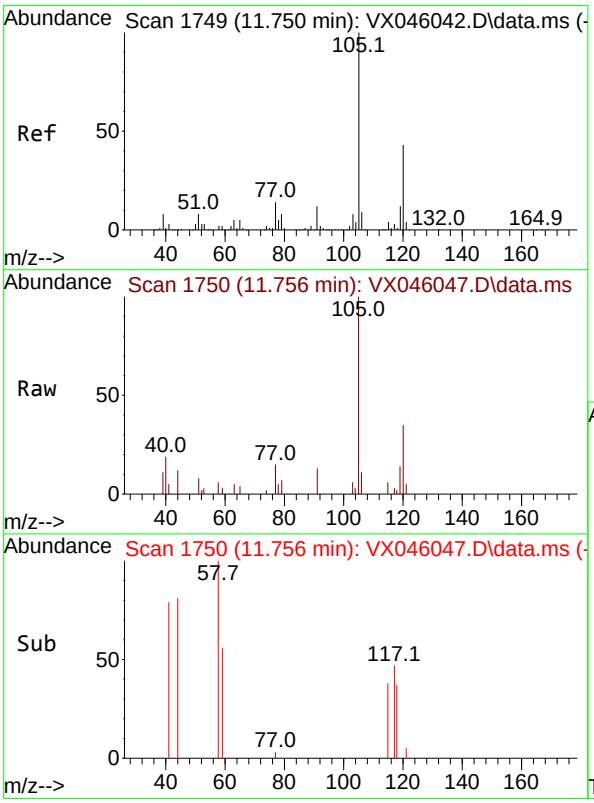
#83
tert-Butylbenzene
Concen: 0.751 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:119 Resp: 3951

Ion	Ratio	Lower	Upper
119	100		
91	63.9	32.9	98.7
134	25.2	11.4	34.1

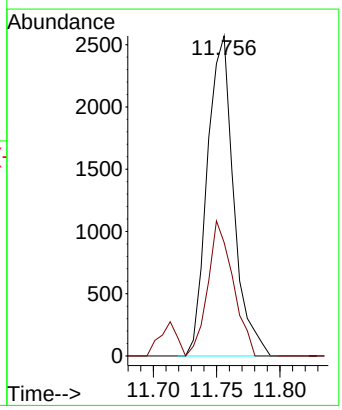


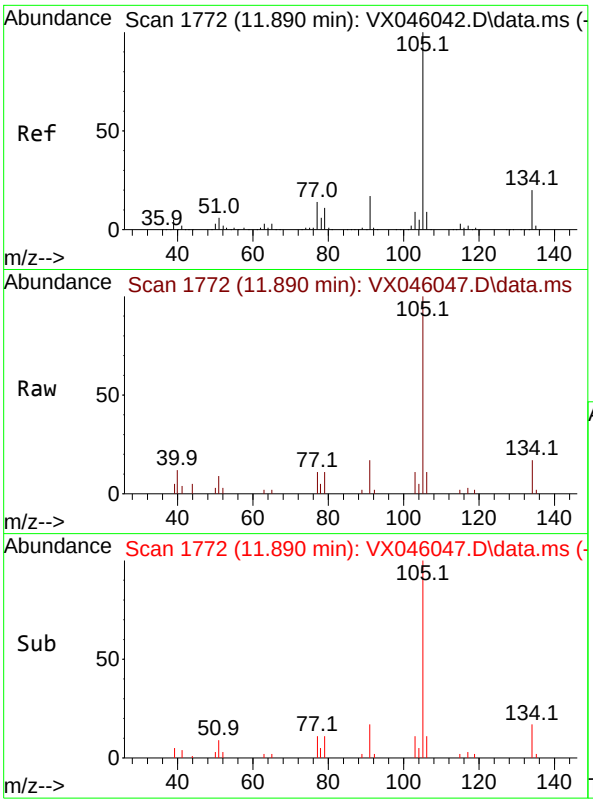


#84
1,2,4-Trimethylbenzene
Concen: 0.697 ug/l
RT: 11.756 min Scan# 1750
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion:105 Resp: 3725

Ion	Ratio	Lower	Upper
105	100		
120	40.3	21.2	63.6



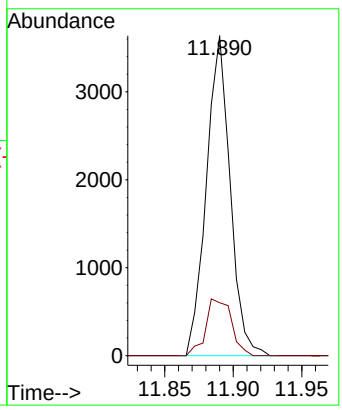


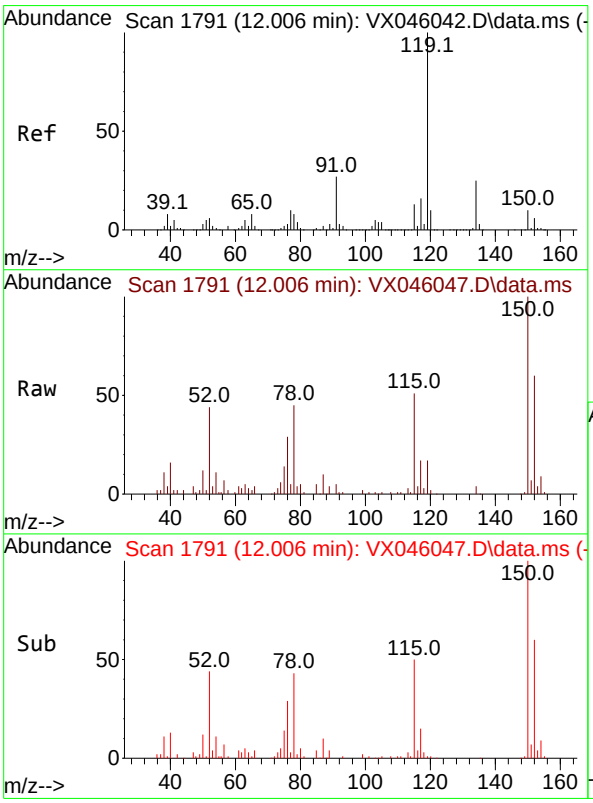
#85
sec-Butylbenzene
Concen: 0.672 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:105 Resp: 4385

Ion	Ratio	Lower	Upper
105	100		
134	19.2	9.7	29.1

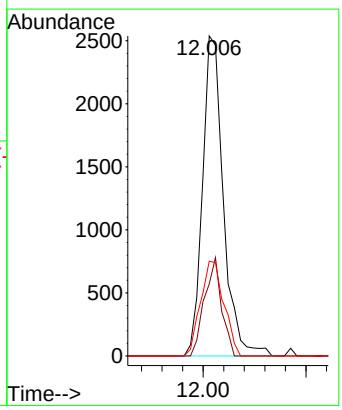


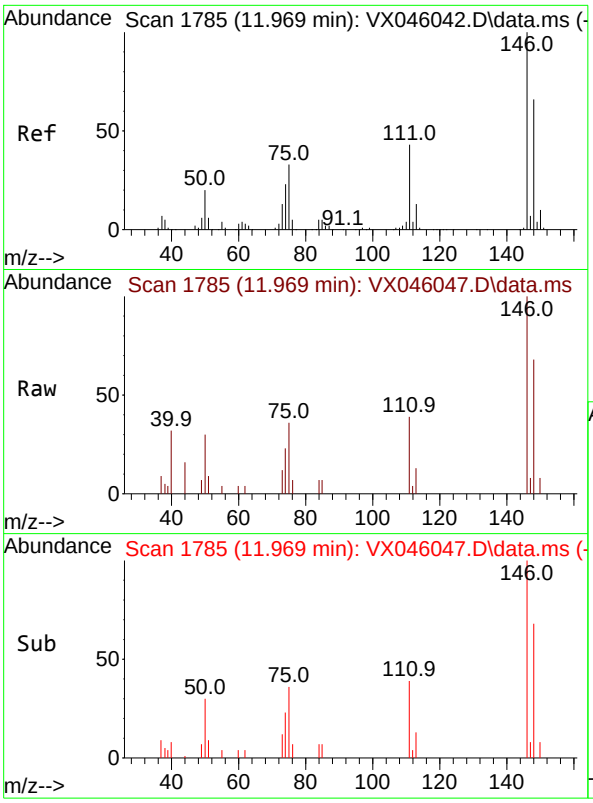


#86
p-Isopropyltoluene
Concen: 0.679 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion:119 Resp: 3577

Ion	Ratio	Lower	Upper
119	100		
134	25.0	12.5	37.5
91	33.1	13.8	41.4



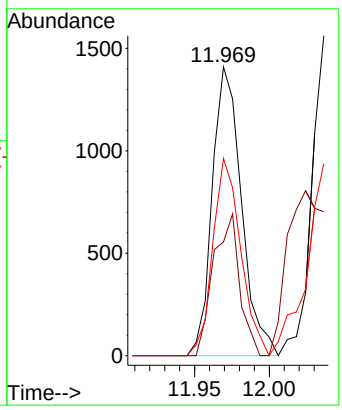


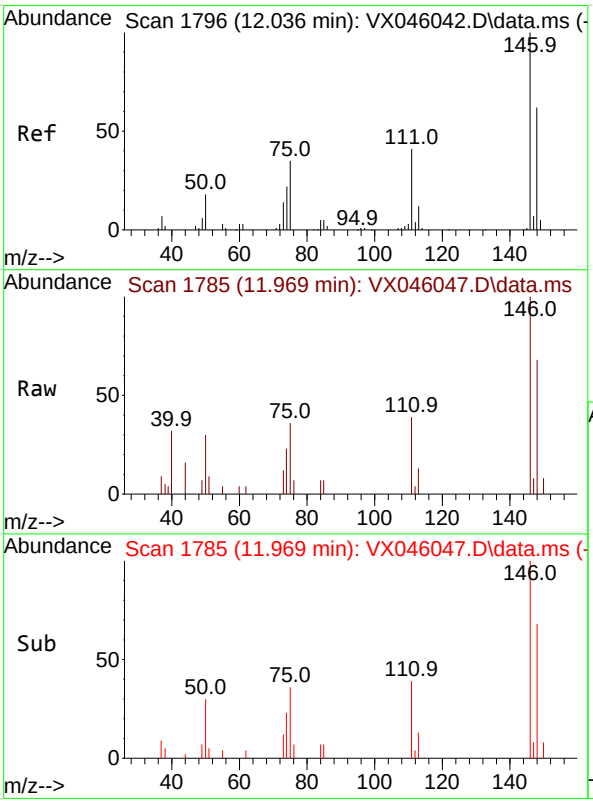
#87
1,3-Dichlorobenzene
Concen: 0.689 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:146 Resp: 1914

Ion	Ratio	Lower	Upper
146	100		
111	43.9	22.1	66.3
148	65.3	32.1	96.5

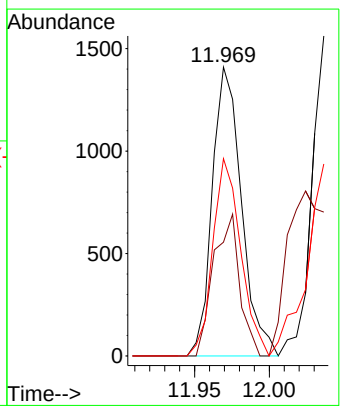


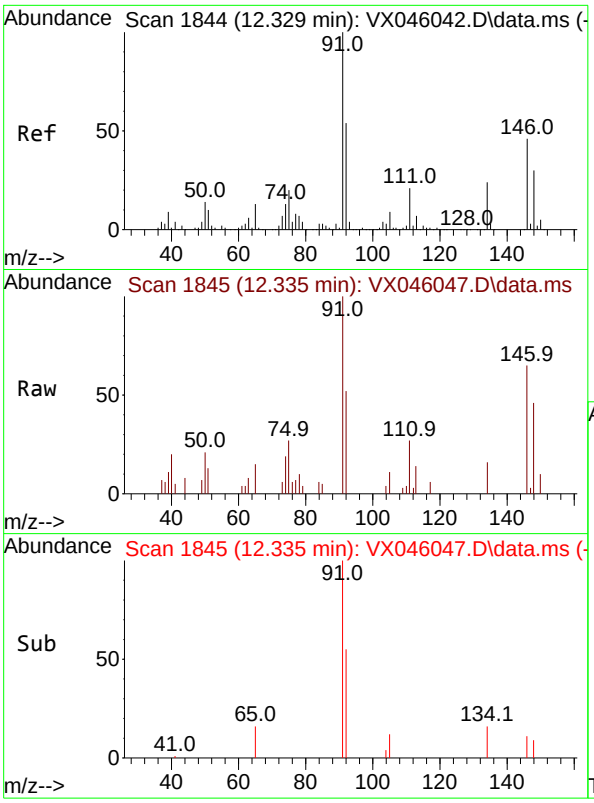


#88
1,4-Dichlorobenzene
Concen: 0.703 ug/l
RT: 11.969 min Scan# 1785
Delta R.T. -0.067 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion:146 Resp: 1914

Ion	Ratio	Lower	Upper
146	100		
111	43.9	21.3	63.9
148	65.3	31.9	95.5



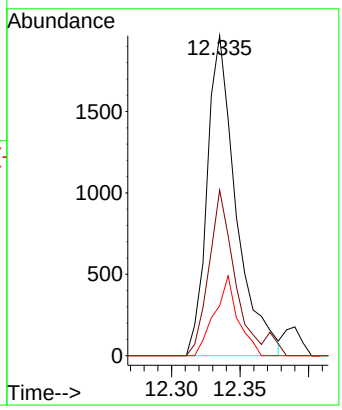


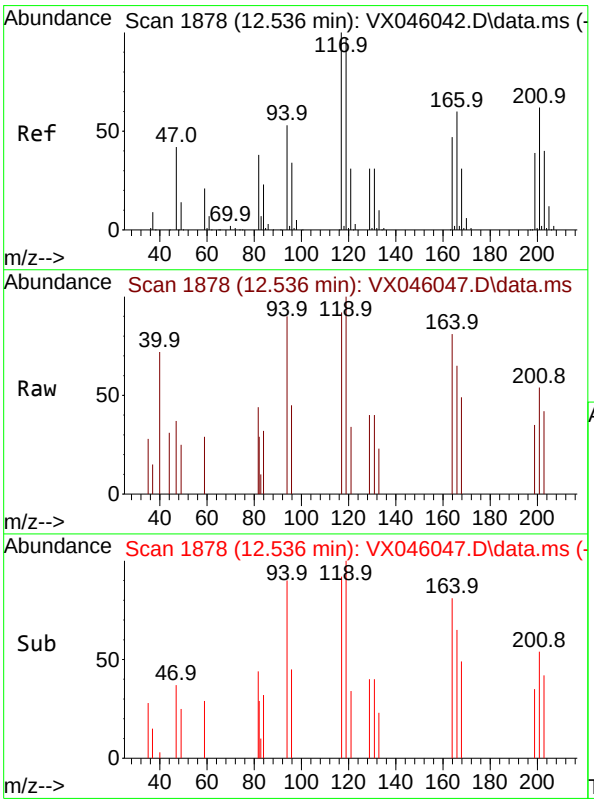
#89
n-Butylbenzene
Concen: 0.631 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 91 Resp: 2889

Ion	Ratio	Lower	Upper
91	100		
92	48.1	26.9	80.7
134	20.1	11.8	35.3

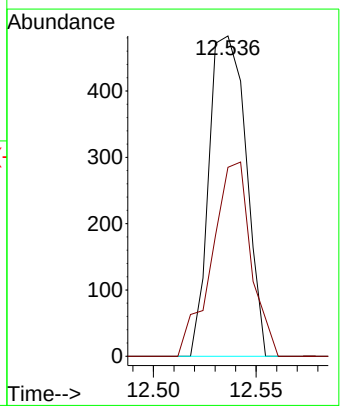


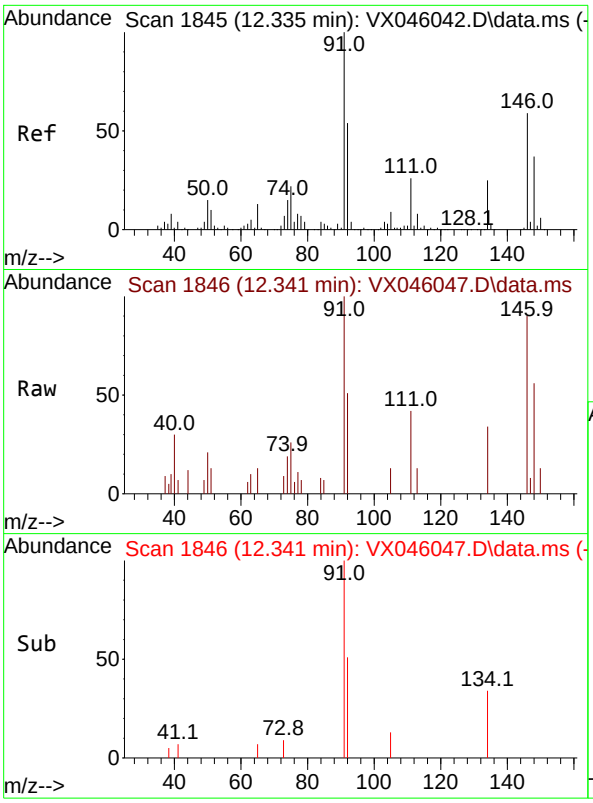


#90
Hexachloroethane
Concen: 0.616 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion:117 Resp: 604

Ion	Ratio	Lower	Upper
117	100		
201	64.2	31.6	94.7



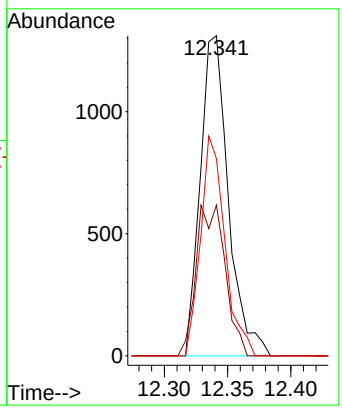


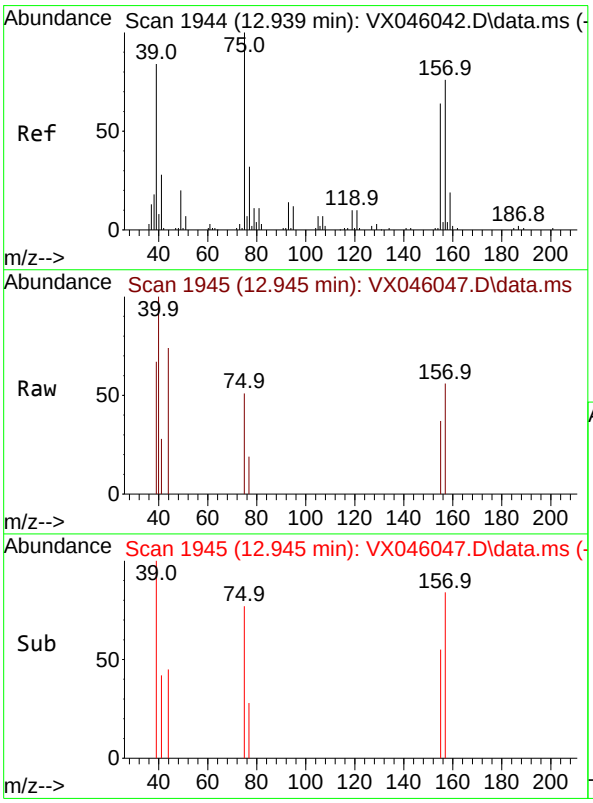
#91
1,2-Dichlorobenzene
Concen: 0.747 ug/l
RT: 12.341 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:146 Resp: 2022

Ion	Ratio	Lower	Upper
146	100		
111	48.8	22.4	67.3
148	59.4	31.6	94.8

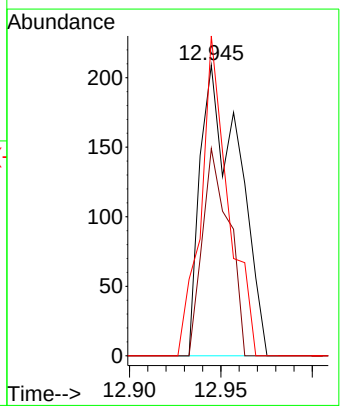


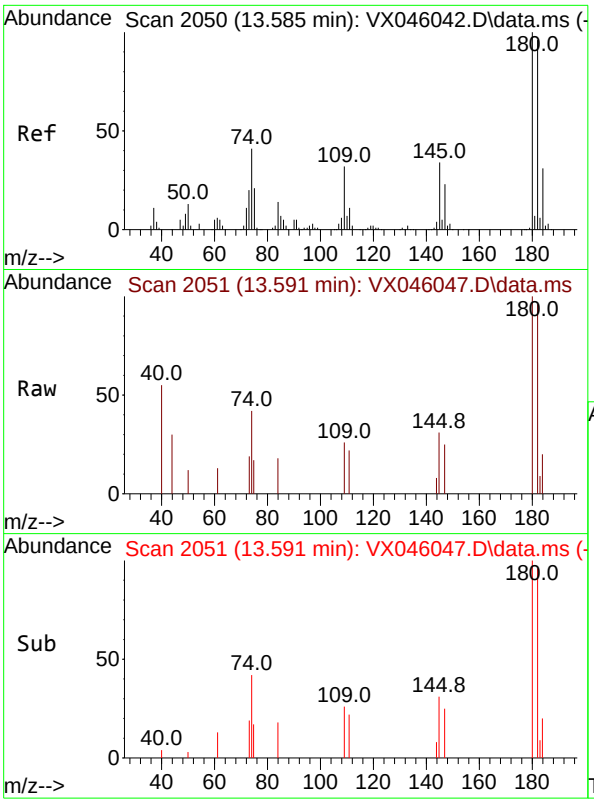


#92
1,2-Dibromo-3-Chloropropane
Concen: 0.586 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion: 75 Resp: 306

Ion	Ratio	Lower	Upper
75	100		
155	49.3	34.9	104.8
157	78.1	43.8	131.4



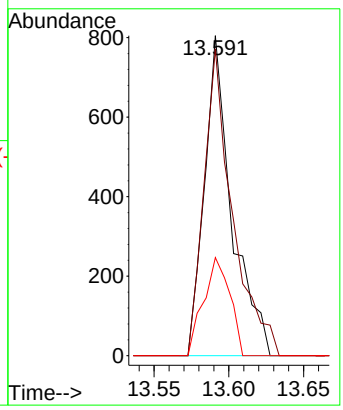


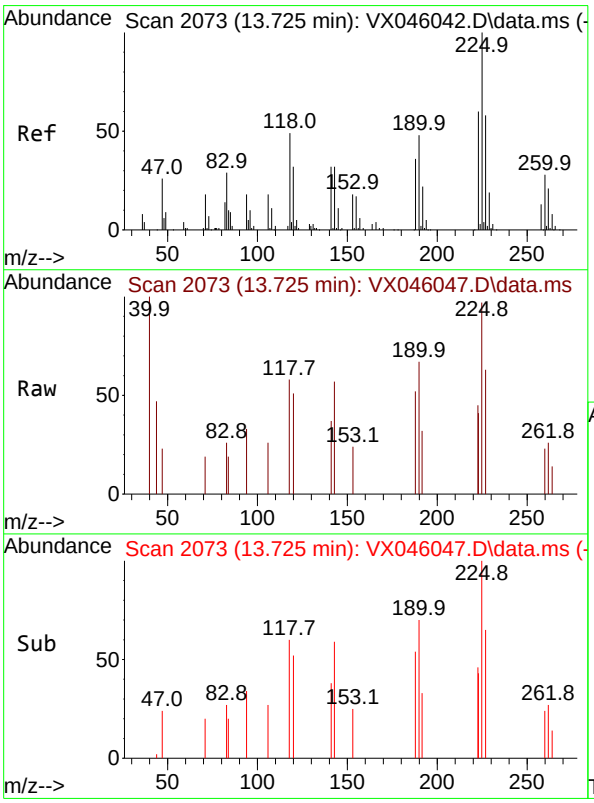
#93
1,2,4-Trichlorobenzene
Concen: 0.688 ug/l
RT: 13.591 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:180 Resp: 1019

Ion	Ratio	Lower	Upper
180	100		
182	100.6	47.9	143.8
145	29.5	17.1	51.2

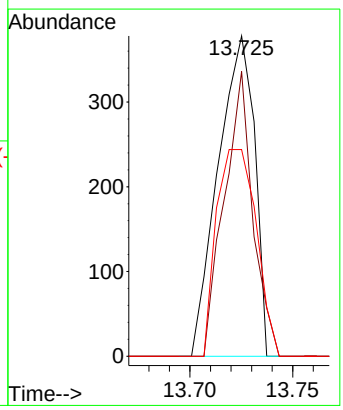


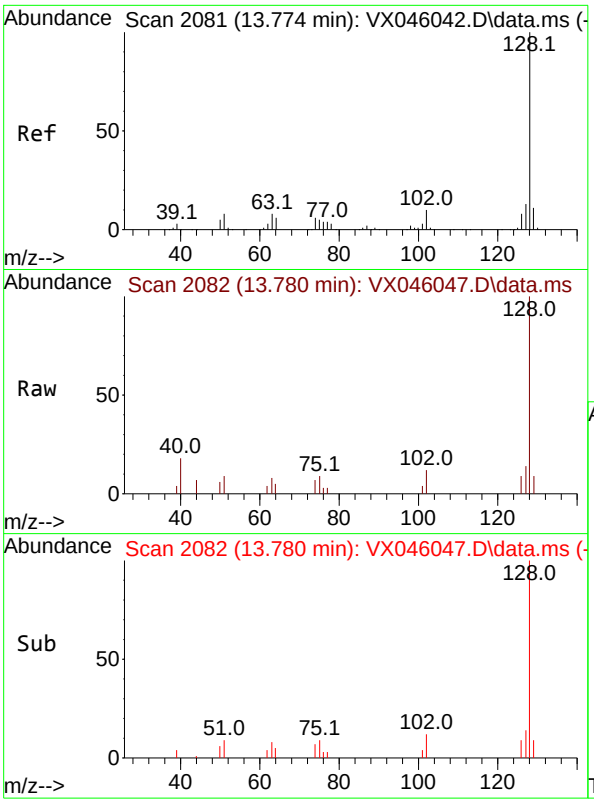


#94
Hexachlorobutadiene
Concen: 0.671 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion:225 Resp: 465

Ion	Ratio	Lower	Upper
225	100		
223	69.7	30.8	92.4
227	70.5	30.9	92.7



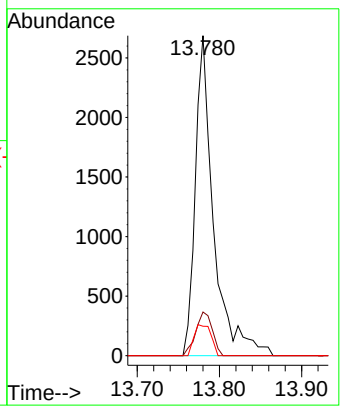


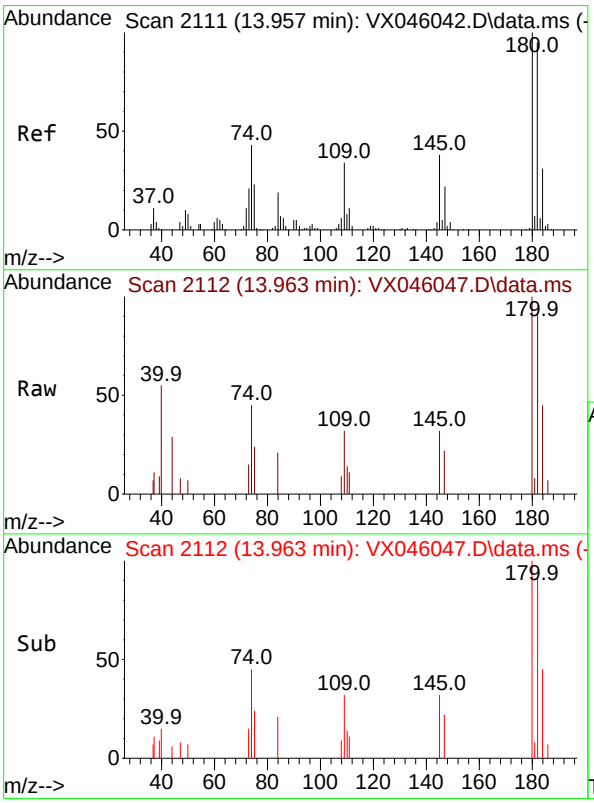
#95
Naphthalene
Concen: 0.767 ug/l
RT: 13.780 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:128 Resp: 4138

Ion	Ratio	Lower	Upper
128	100		
127	12.4	10.4	15.6
129	8.9	8.6	13.0

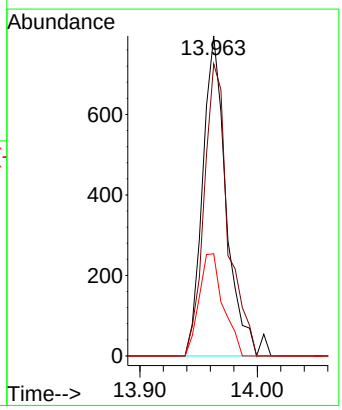




#96
1,2,3-Trichlorobenzene
Concen: 0.716 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. 0.006 min
Lab File: VX046047.D
Acq: 05 May 2025 16:27

Tgt Ion:180 Resp: 1113

Ion	Ratio	Lower	Upper
180	100		
182	92.5	47.8	143.3
145	32.5	18.1	54.3



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046048.D
Acq On : 05 May 2025 16:50
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Quant Time: May 06 07:17:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	92588	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	162651	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	145078	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	68229	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	83733	48.509	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 97.020%			
35) Dibromofluoromethane	5.379	113	58192	49.683	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 99.360%			
50) Toluene-d8	8.647	98	198575	48.984	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 97.960%			
62) 4-Bromofluorobenzene	11.079	95	75568	48.596	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 97.200%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.167	85	78783	55.594	ug/l	99
3) Chloromethane	1.307	50	72275	52.592	ug/l	100
4) Vinyl Chloride	1.374	62	65994	51.598	ug/l	98
5) Bromomethane	1.593	94	30033	50.627	ug/l	97
6) Chloroethane	1.666	64	35690	52.271	ug/l	94
7) Trichlorofluoromethane	1.874	101	99352	52.560	ug/l	99
8) Diethyl Ether	2.130	74	31875	49.536	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.319	101	59451	50.822	ug/l	99
10) Methyl Iodide	2.447	142	73940	53.419	ug/l	99
11) Tert butyl alcohol	2.977	59	61065	252.025	ug/l	99
12) 1,1-Dichloroethene	2.313	96	56097	51.097	ug/l	98
13) Acrolein	2.233	56	64157	232.505	ug/l	99
14) Allyl chloride	2.660	41	108757	51.833	ug/l	100
15) Acrylonitrile	3.063	53	181808	262.412	ug/l	99
16) Acetone	2.380	43	169923	245.518	ug/l	98
17) Carbon Disulfide	2.502	76	132695	50.981	ug/l	99
18) Methyl Acetate	2.703	43	80251	49.968	ug/l	97
19) Methyl tert-butyl Ether	3.111	73	195442	50.777	ug/l	99
20) Methylene Chloride	2.782	84	63369	47.779	ug/l	99
21) trans-1,2-Dichloroethene	3.087	96	55770	50.513	ug/l	99
22) Diisopropyl ether	3.757	45	209946	51.800	ug/l	97
23) Vinyl Acetate	3.715	43	946746	265.585	ug/l	100
24) 1,1-Dichloroethane	3.605	63	114733	50.825	ug/l	98
25) 2-Butanone	4.556	43	258339	257.110	ug/l	97
26) 2,2-Dichloropropane	4.471	77	88229	49.934	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	67727	50.956	ug/l	100
28) Bromochloromethane	4.891	49	55390	50.975	ug/l	98
29) Tetrahydrofuran	5.001	42	163675	259.958	ug/l	99
30) Chloroform	5.093	83	120782	51.332	ug/l	97
31) Cyclohexane	5.458	56	103158	50.147	ug/l	96
32) 1,1,1-Trichloroethane	5.373	97	104243	51.108	ug/l	100
36) 1,1-Dichloropropene	5.690	75	77931	49.521	ug/l	99
37) Ethyl Acetate	4.715	43	98604	50.714	ug/l	100
38) Carbon Tetrachloride	5.666	117	88100	49.825	ug/l	97
39) Methylcyclohexane	7.373	83	100808	49.757	ug/l	98
40) Benzene	6.031	78	233977	50.759	ug/l	99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046048.D
Acq On : 05 May 2025 16:50
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Quant Time: May 06 07:17:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.916	41	56017	55.076	ug/l		100
42) 1,2-Dichloroethane	6.080	62	101185	50.861	ug/l		98
43) Isopropyl Acetate	6.336	43	154818	52.195	ug/l		99
44) Trichloroethene	7.123	130	55491	50.018	ug/l		100
45) 1,2-Dichloropropane	7.428	63	59582	51.983	ug/l		98
46) Dibromomethane	7.580	93	45181	49.978	ug/l		99
47) Bromodichloromethane	7.818	83	92388	51.889	ug/l		100
48) Methyl methacrylate	7.690	41	82144	54.226	ug/l		98
49) 1,4-Dioxane	7.659	88	30477	1059.599	ug/l		97
51) 4-Methyl-2-Pentanone	8.574	43	510206	259.133	ug/l		100
52) Toluene	8.714	92	144574	51.150	ug/l		100
53) t-1,3-Dichloropropene	8.976	75	83751	52.920	ug/l		100
54) cis-1,3-Dichloropropene	8.360	75	92517	52.892	ug/l		98
55) 1,1,2-Trichloroethane	9.147	97	56713	50.887	ug/l		96
56) Ethyl methacrylate	9.116	69	95772	53.918	ug/l		99
57) 1,3-Dichloropropane	9.305	76	99663	49.793	ug/l		97
58) 2-Chloroethyl Vinyl ether	8.238	63	240681	265.780	ug/l		99
59) 2-Hexanone	9.427	43	390701	268.218	ug/l		100
60) Dibromochloromethane	9.519	129	63738	52.075	ug/l		99
61) 1,2-Dibromoethane	9.610	107	59134	51.050	ug/l		98
64) Tetrachloroethene	9.269	164	48034	46.795	ug/l		98
65) Chlorobenzene	10.073	112	154640	48.699	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.159	131	53735	49.557	ug/l		100
67) Ethyl Benzene	10.189	91	281239	50.245	ug/l		100
68) m/p-Xylenes	10.299	106	206813	101.022	ug/l		99
69) o-Xylene	10.640	106	101469	50.841	ug/l		99
70) Styrene	10.653	104	169703	51.907	ug/l		99
71) Bromoform	10.799	173	40364	49.583	ug/l	#	97
73) Isopropylbenzene	10.957	105	269484	50.733	ug/l		100
74) N-amyl acetate	10.842	43	137559	52.407	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.207	83	89027	47.827	ug/l		98
76) 1,2,3-Trichloropropane	11.238	75	99886	60.821	ug/l		86
77) Bromobenzene	11.195	156	59871	48.549	ug/l		98
78) n-propylbenzene	11.299	91	312285	50.562	ug/l		100
79) 2-Chlorotoluene	11.360	91	195630	49.107	ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	228538	51.500	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	24857	49.276	ug/l		98
82) 4-Chlorotoluene	11.451	91	223811	50.661	ug/l		100
83) tert-Butylbenzene	11.713	119	225783	50.511	ug/l		99
84) 1,2,4-Trimethylbenzene	11.750	105	231371	51.485	ug/l		100
85) sec-Butylbenzene	11.890	105	280578	51.122	ug/l		99
86) p-Isopropyltoluene	12.006	119	231942	51.198	ug/l		100
87) 1,3-Dichlorobenzene	11.963	146	113146	50.272	ug/l		99
88) 1,4-Dichlorobenzene	12.037	146	111173	48.368	ug/l		99
89) n-Butylbenzene	12.329	91	205858	51.804	ug/l		100
90) Hexachloroethane	12.536	117	39823	49.895	ug/l		99
91) 1,2-Dichlorobenzene	12.335	146	111482	49.361	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	21220	51.458	ug/l		99
93) 1,2,4-Trichlorobenzene	13.585	180	64421	49.662	ug/l		100
94) Hexachlorobutadiene	13.719	225	27425	48.408	ug/l		98
95) Naphthalene	13.774	128	239805	50.404	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	64950	48.525	ug/l		98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046048.D
Acq On : 05 May 2025 16:50
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Quant Time: May 06 07:17:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

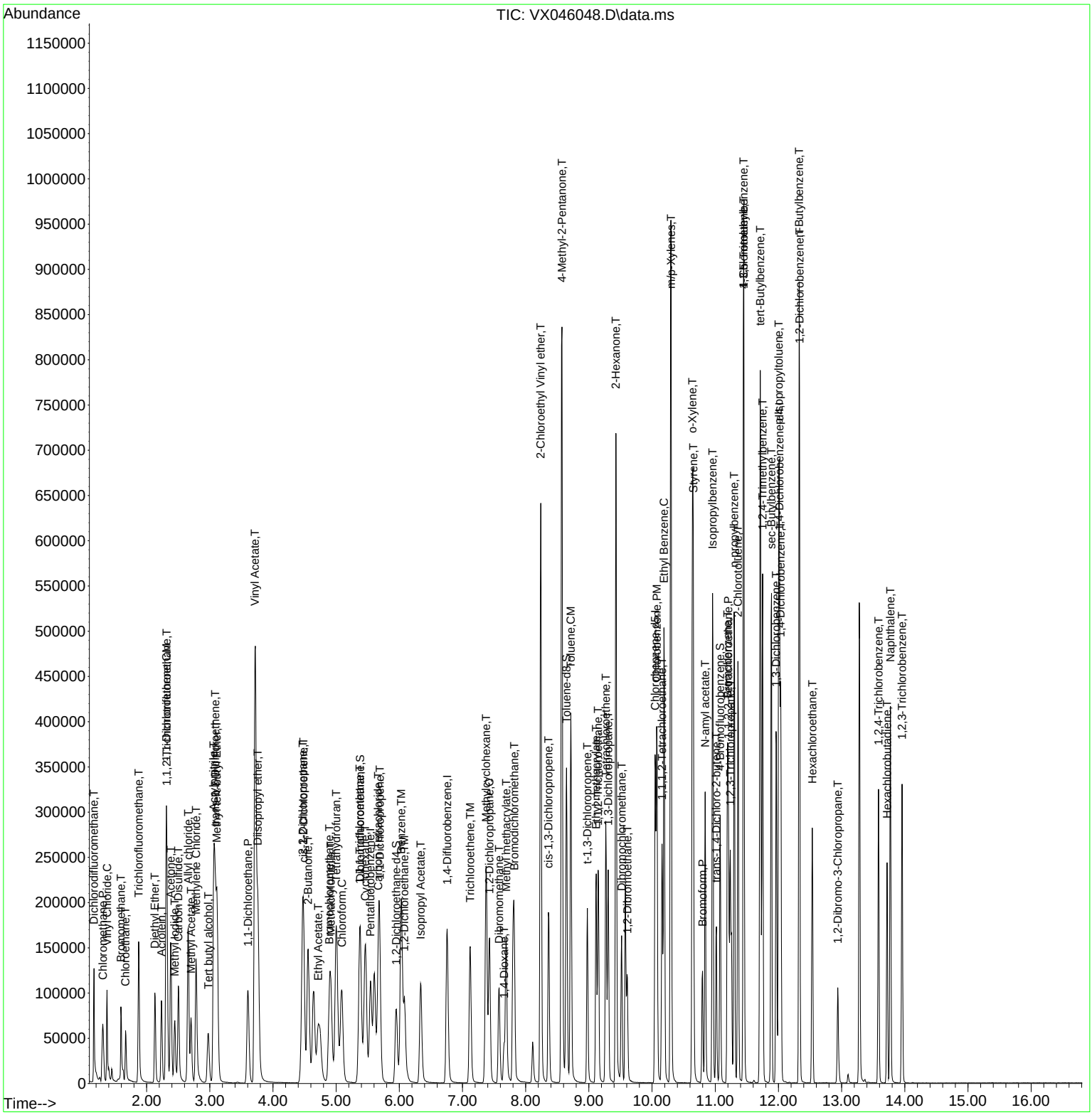
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

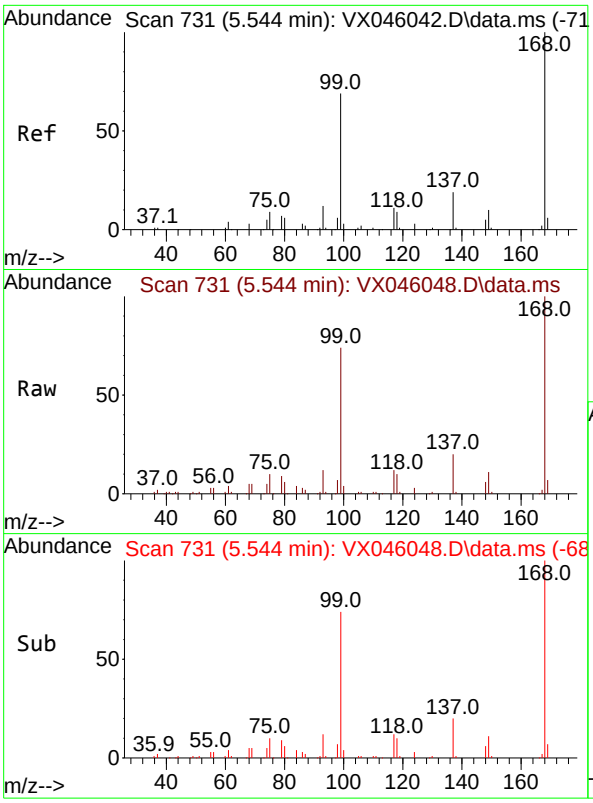
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX050525\
Data File : VX046048.D
Acq On : 05 May 2025 16:50
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Quant Time: May 06 07:17:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration



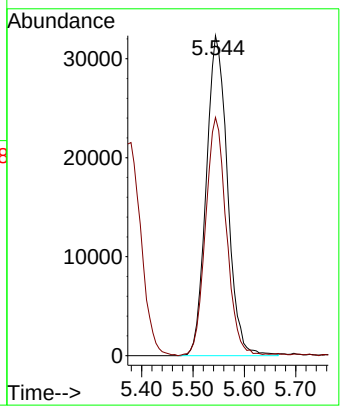


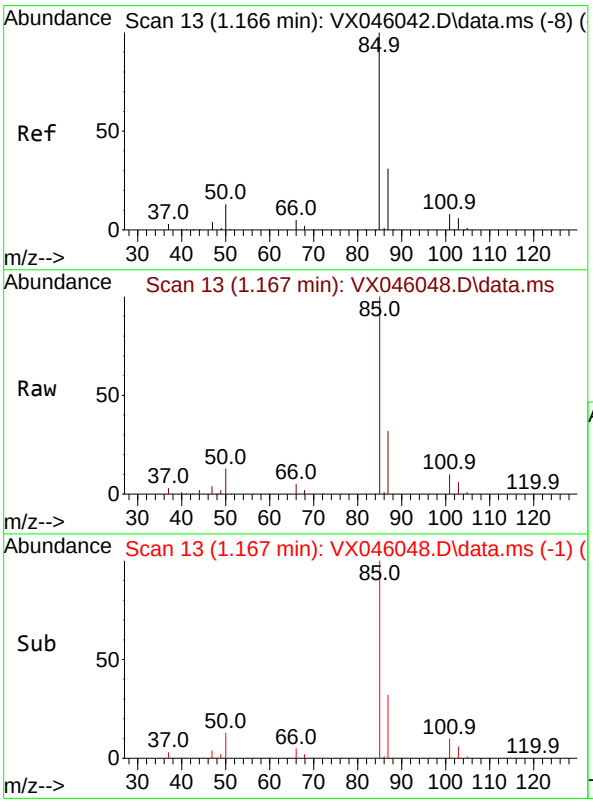
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Tgt Ion:168 Resp: 92588

Ion	Ratio	Lower	Upper
168	100		
99	74.5	54.9	82.3

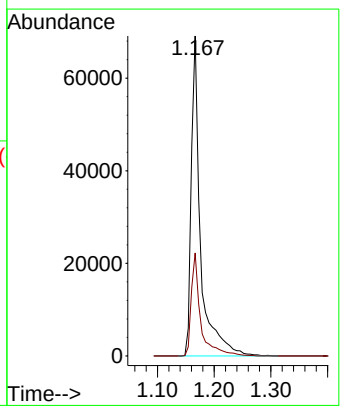


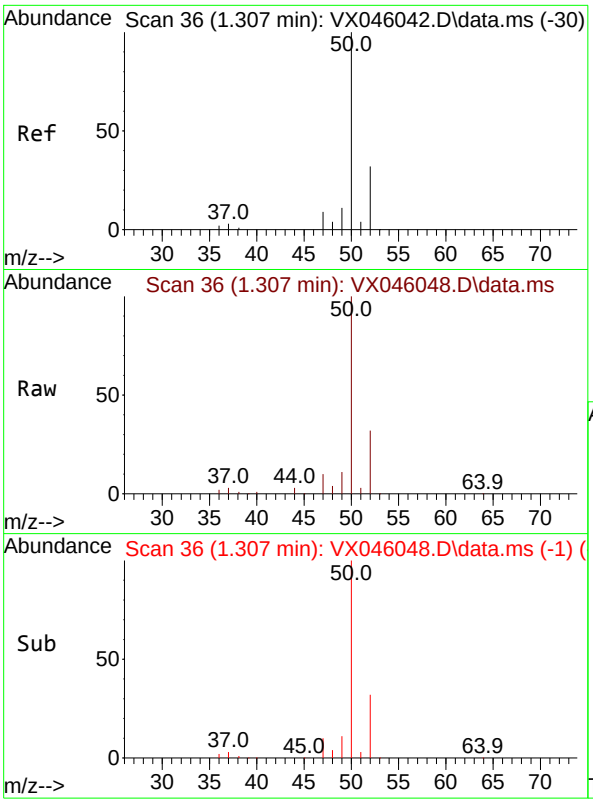


#2
Dichlorodifluoromethane
Concen: 55.594 ug/l
RT: 1.167 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 85 Resp: 78783

Ion	Ratio	Lower	Upper
85	100		
87	32.2	15.7	47.1



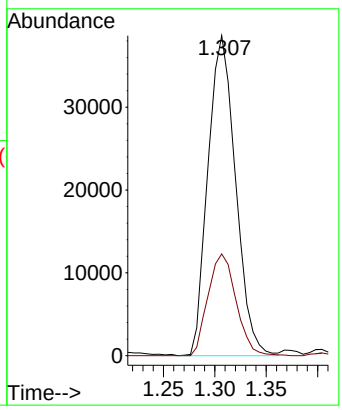


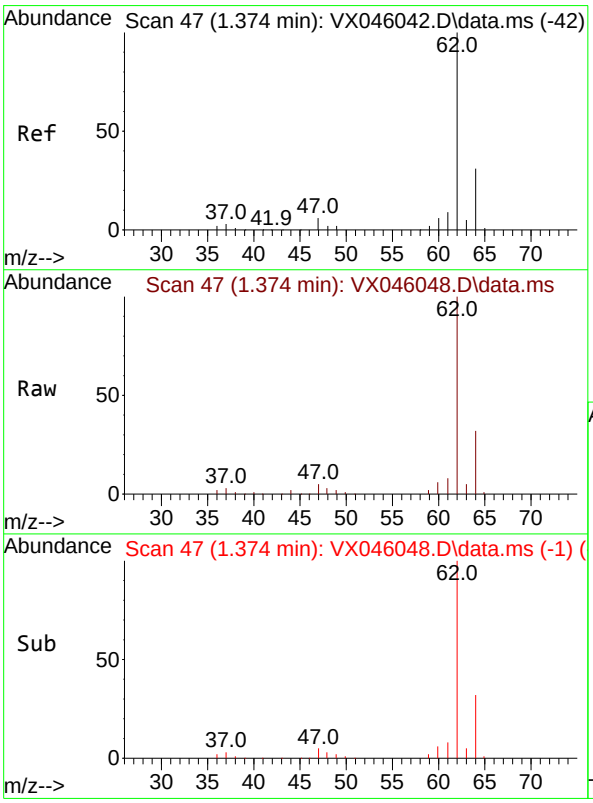
#3
Chloromethane
Concen: 52.592 ug/l
RT: 1.307 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Tgt Ion: 50 Resp: 72275

Ion	Ratio	Lower	Upper
50	100		
52	31.8	25.4	38.2

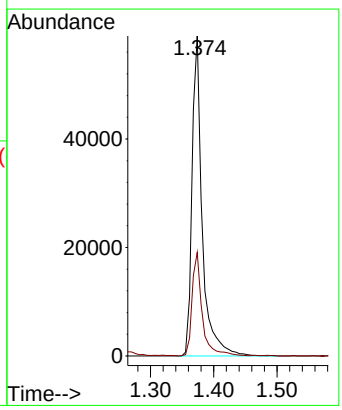


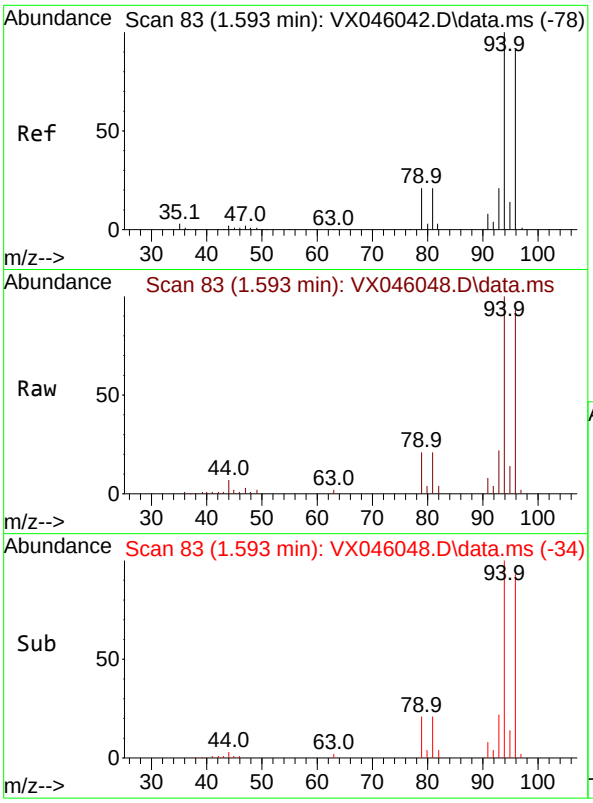


#4
Vinyl Chloride
Concen: 51.598 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 62 Resp: 65994

Ion	Ratio	Lower	Upper
62	100		
64	32.3	25.2	37.8



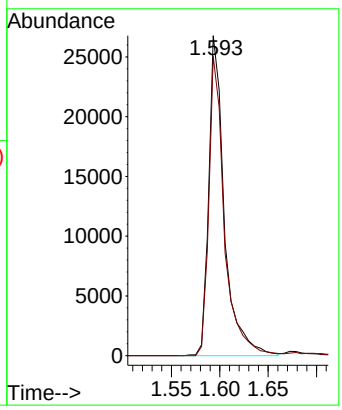


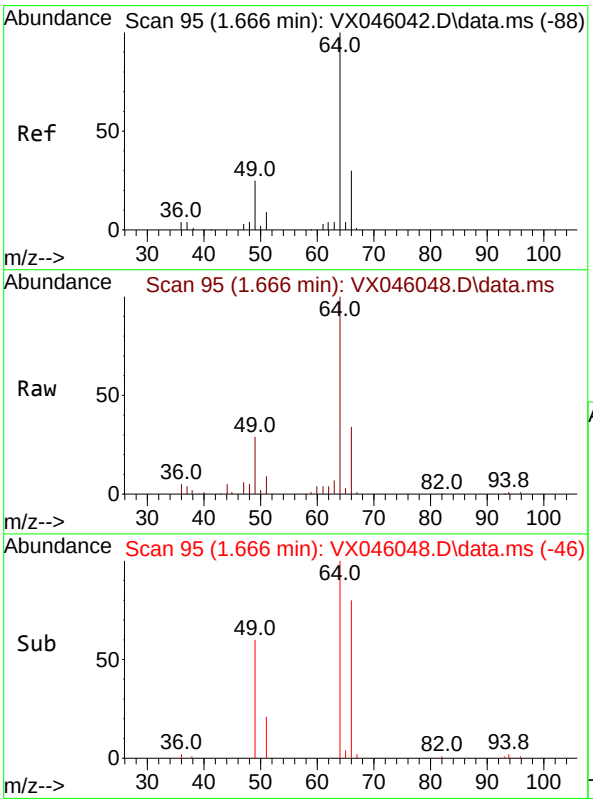
#5
Bromomethane
Concen: 50.627 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Tgt Ion: 94 Resp: 30033

Ion	Ratio	Lower	Upper
94	100		
96	93.5	72.8	109.2

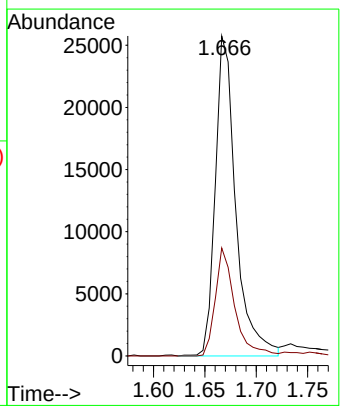


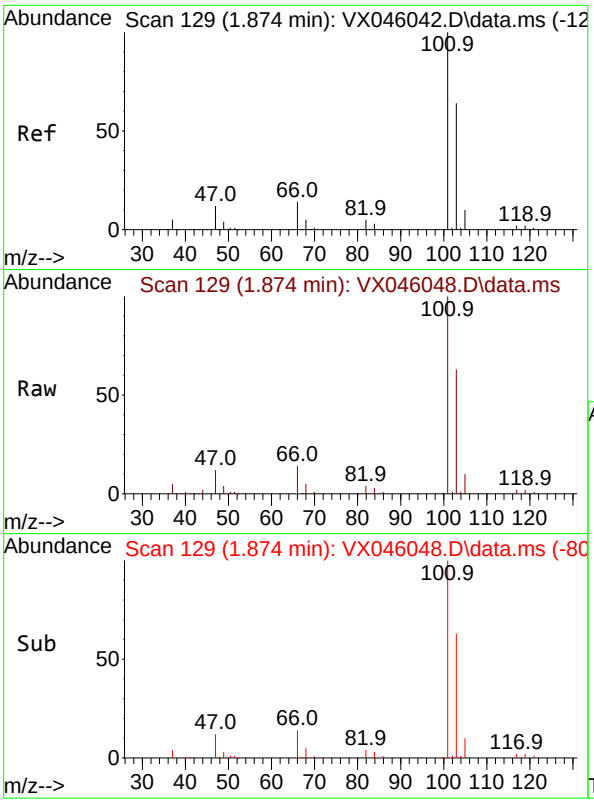


#6
Chloroethane
Concen: 52.271 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 64 Resp: 35690

Ion	Ratio	Lower	Upper
64	100		
66	33.7	24.3	36.5



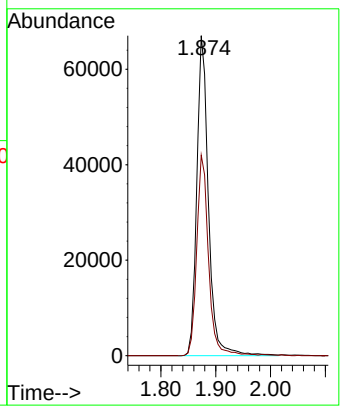


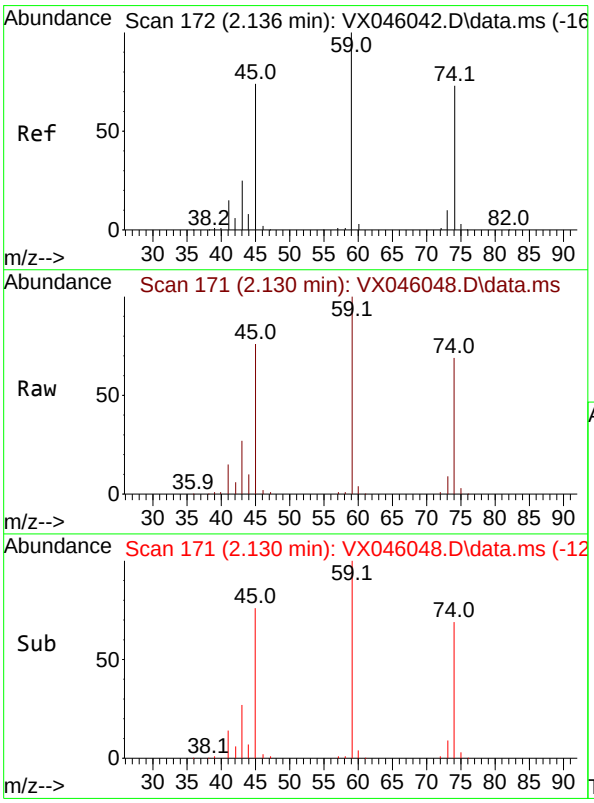
#7
Trichlorofluoromethane
Concen: 52.560 ug/l
RT: 1.874 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Tgt Ion:101 Resp: 99352

Ion	Ratio	Lower	Upper
101	100		
103	62.6	51.0	76.4

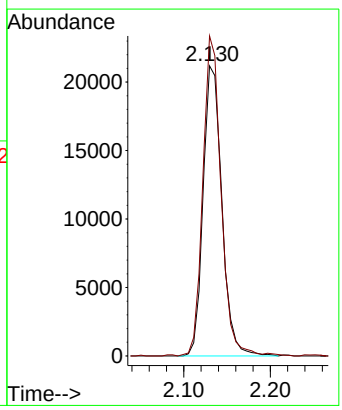


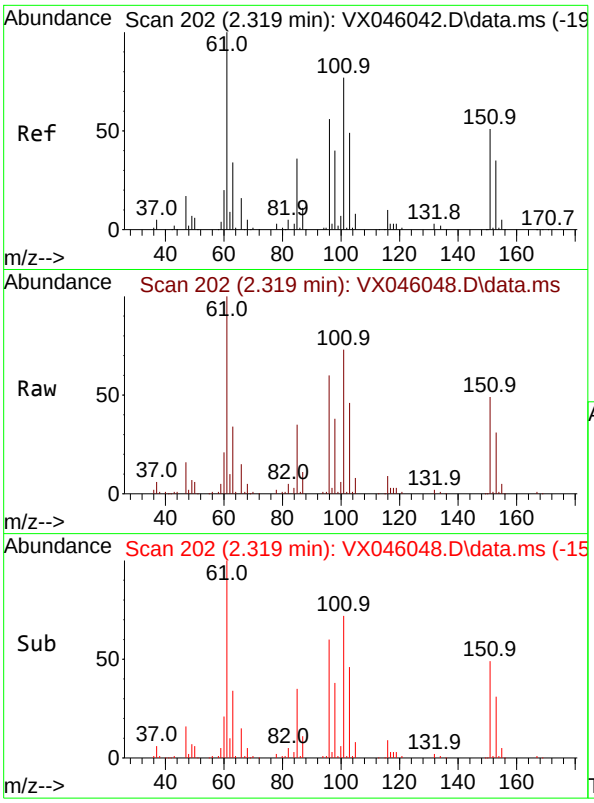


#8
Diethyl Ether
Concen: 49.536 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 74 Resp: 31875

Ion	Ratio	Lower	Upper
74	100		
45	107.1	54.9	164.8



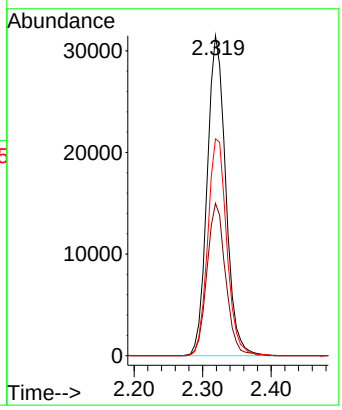


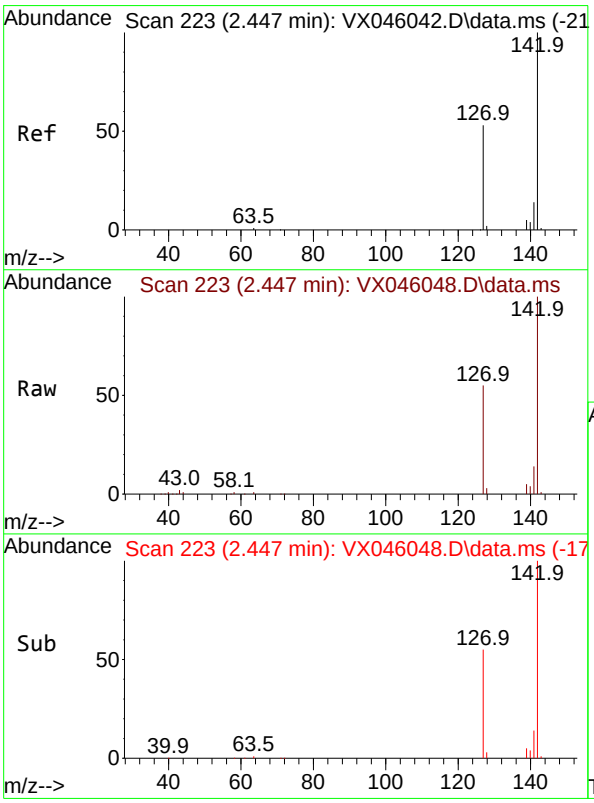
#9
1,1,2-Trichlorotrifluoroethane
Concen: 50.822 ug/l
RT: 2.319 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Tgt Ion:101 Resp: 59451

Ion	Ratio	Lower	Upper
101	100		
85	47.8	38.6	58.0
151	69.4	55.2	82.8

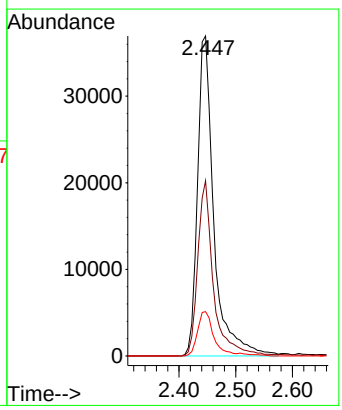


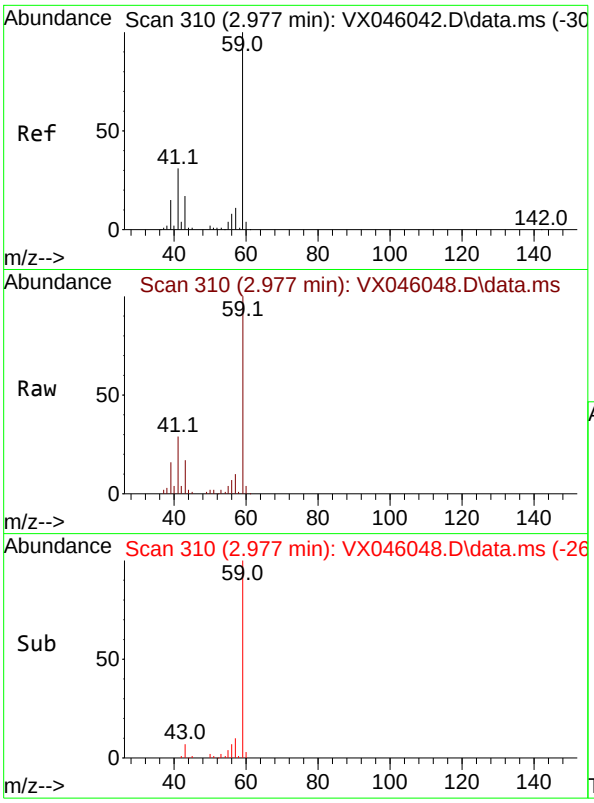


#10
Methyl Iodide
Concen: 53.419 ug/l
RT: 2.447 min Scan# 223
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion:142 Resp: 73940

Ion	Ratio	Lower	Upper
142	100		
127	52.9	41.7	62.5
141	14.4	11.5	17.3



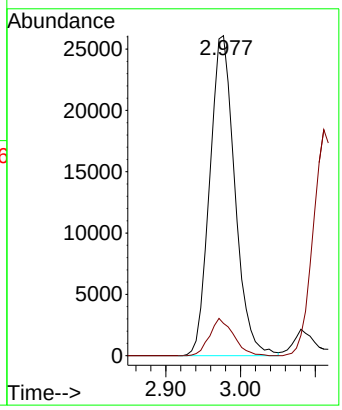


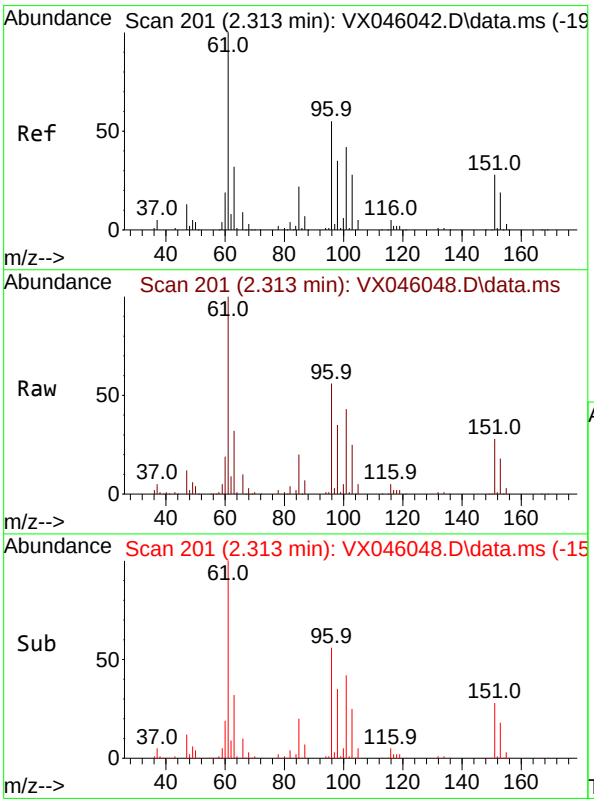
#11
Tert butyl alcohol
Concen: 252.025 ug/l
RT: 2.977 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Tgt Ion: 59 Resp: 61065

Ion	Ratio	Lower	Upper
59	100		
57	11.1	8.6	12.8

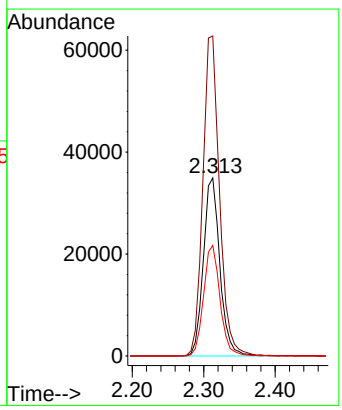


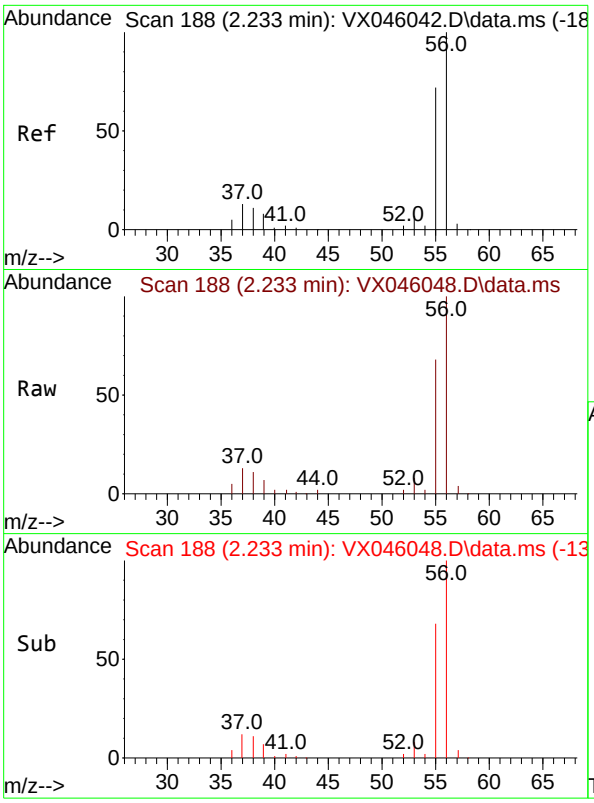


#12
1,1-Dichloroethene
Concen: 51.097 ug/l
RT: 2.313 min Scan# 201
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 96 Resp: 56097

Ion	Ratio	Lower	Upper
96	100		
61	179.7	146.2	219.2
98	62.1	51.0	76.6



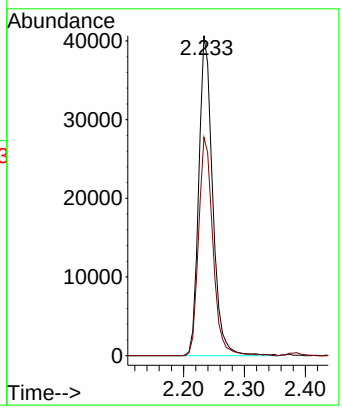


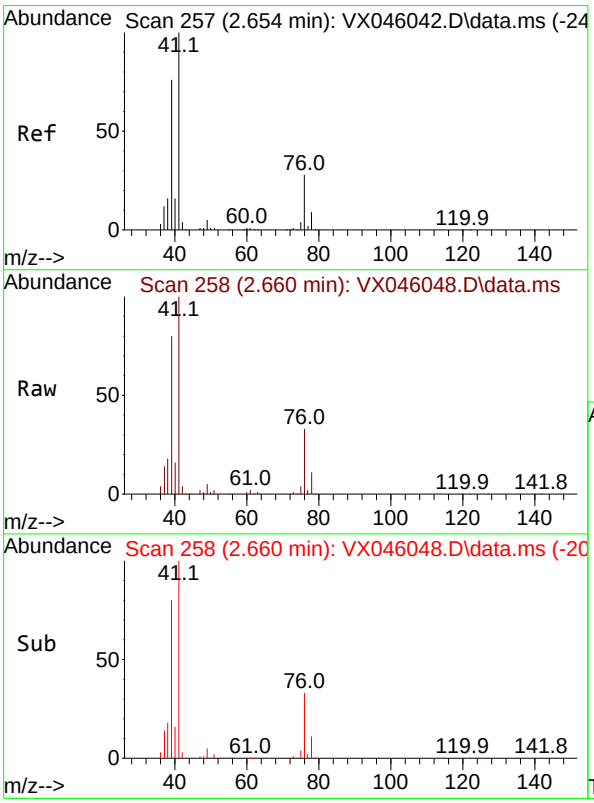
#13
Acrolein
Concen: 232.505 ug/l
RT: 2.233 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Tgt Ion: 56 Resp: 64157

Ion	Ratio	Lower	Upper
56	100		
55	70.8	56.2	84.4

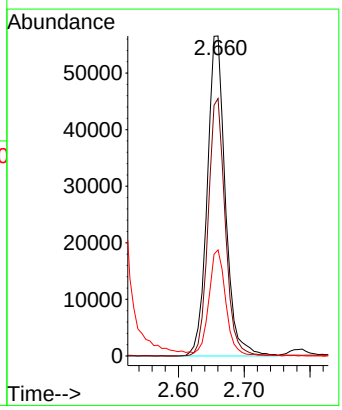


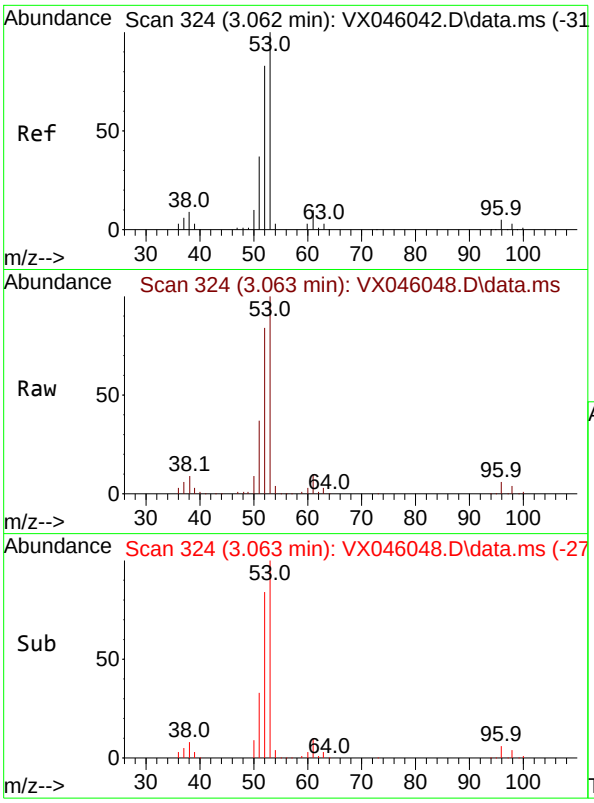


#14
Allyl chloride
Concen: 51.833 ug/l
RT: 2.660 min Scan# 258
Delta R.T. 0.006 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 41 Resp: 108757

Ion	Ratio	Lower	Upper
41	100		
39	75.6	60.6	90.8
76	31.1	24.9	37.3



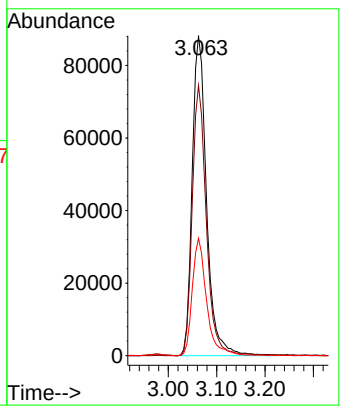


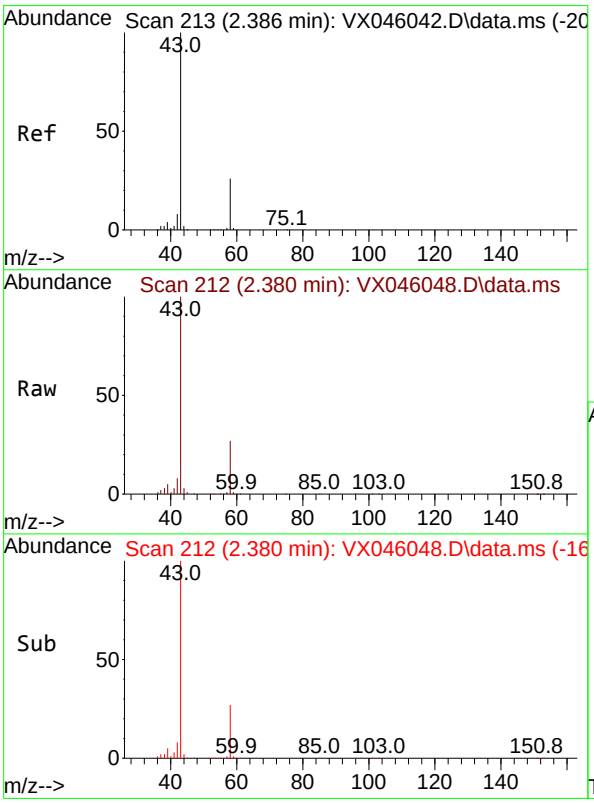
#15
Acrylonitrile
Concen: 262.412 ug/l
RT: 3.063 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Tgt Ion: 53 Resp: 181808

Ion	Ratio	Lower	Upper
53	100		
52	82.9	65.3	97.9
51	36.5	29.8	44.8

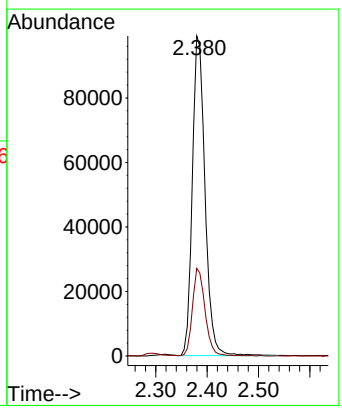


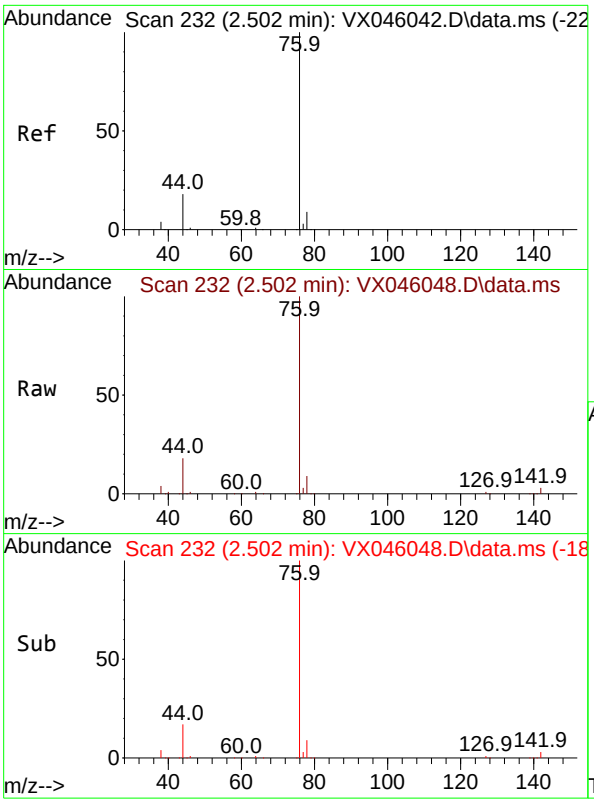


#16
Acetone
Concen: 245.518 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 43 Resp: 169923

Ion	Ratio	Lower	Upper
43	100		
58	27.3	21.2	31.8



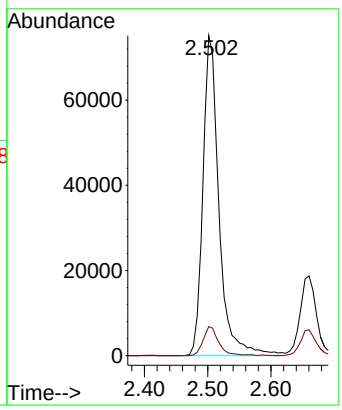


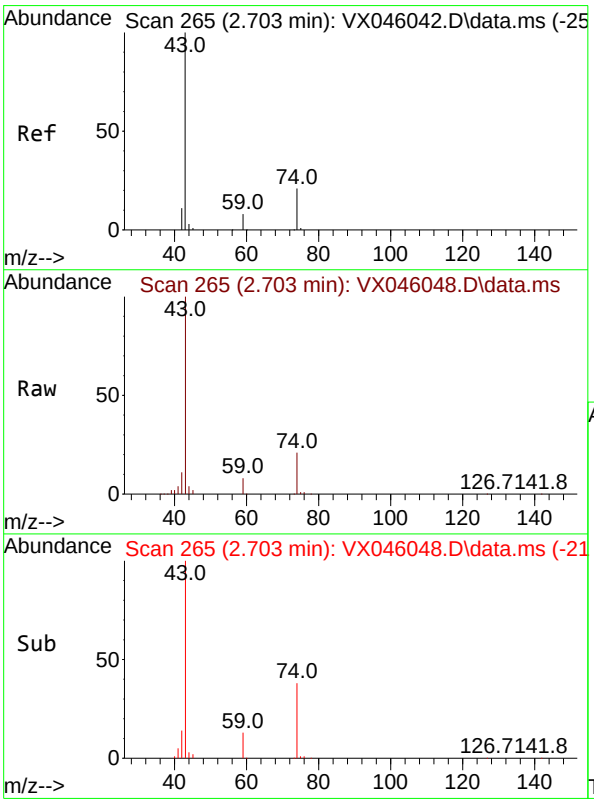
#17
Carbon Disulfide
Concen: 50.981 ug/l
RT: 2.502 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Tgt Ion: 76 Resp: 132695

Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.0	10.4

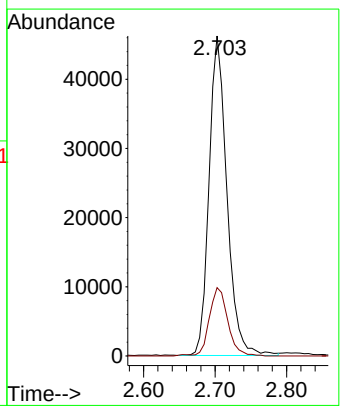


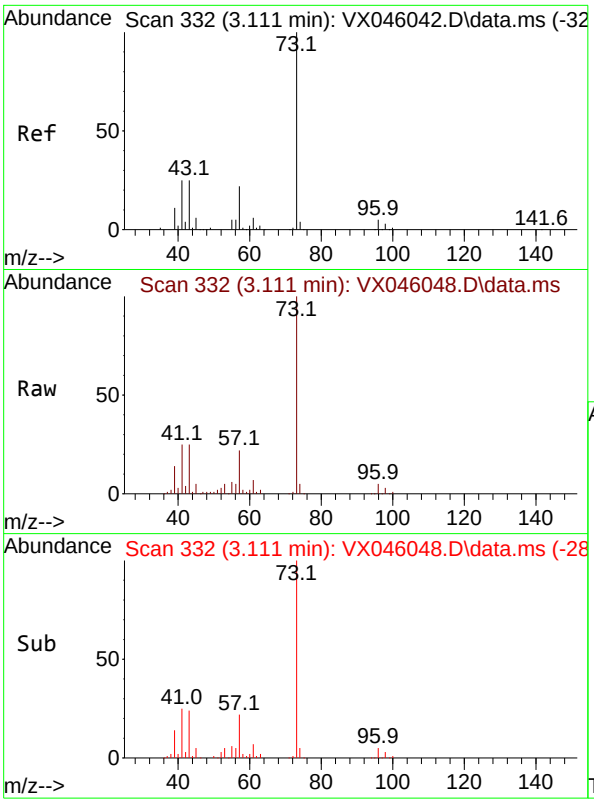


#18
Methyl Acetate
Concen: 49.968 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 43 Resp: 80251

Ion	Ratio	Lower	Upper
43	100		
74	22.1	16.7	25.1



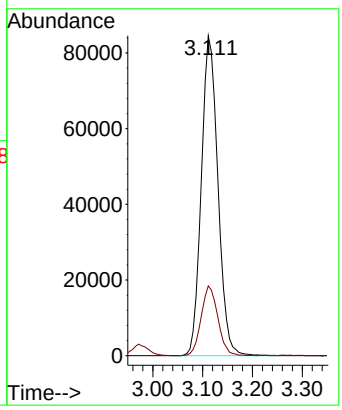


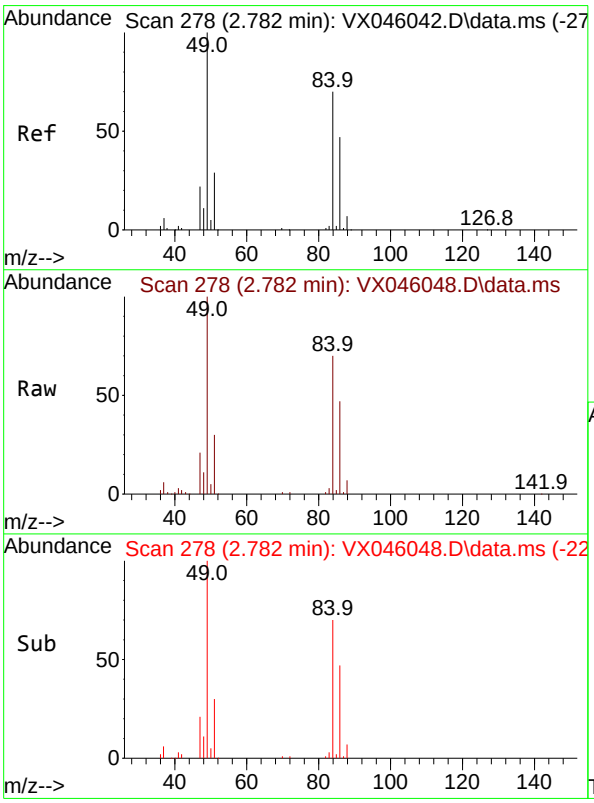
#19
Methyl tert-butyl Ether
Concen: 50.777 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Tgt Ion: 73 Resp: 195442

Ion	Ratio	Lower	Upper
73	100		
57	21.8	17.7	26.5

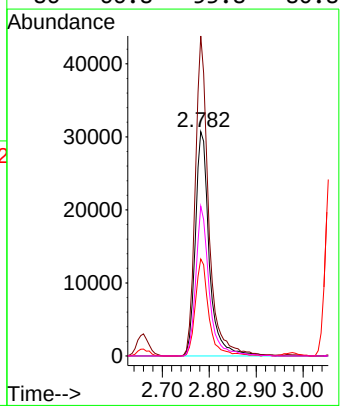


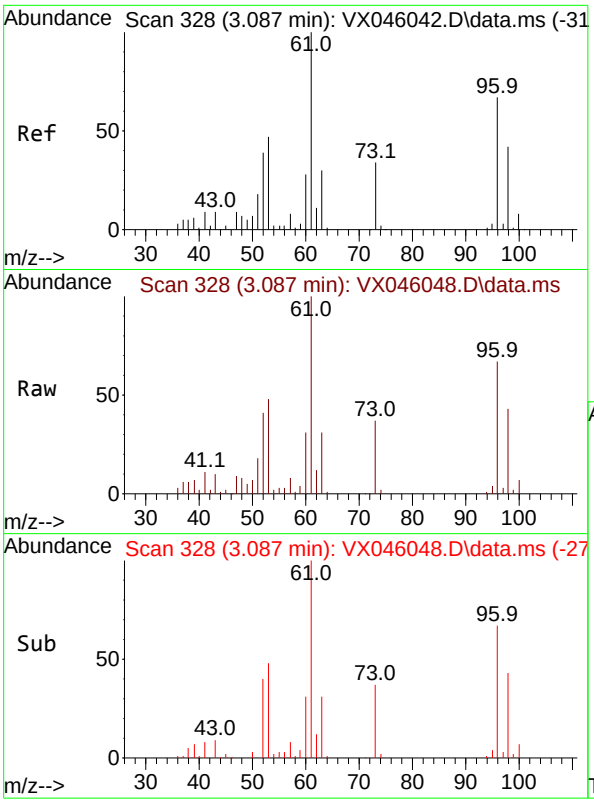


#20
Methylene Chloride
Concen: 47.779 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 84 Resp: 63369

Ion	Ratio	Lower	Upper
84	100		
49	142.7	113.9	170.9
51	43.3	33.5	50.3
86	66.8	53.8	80.8



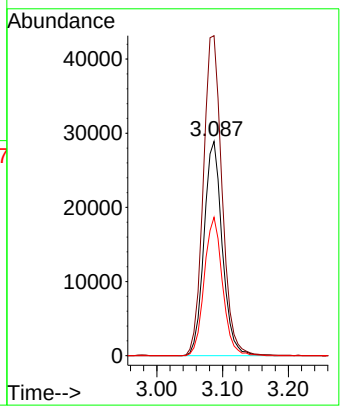


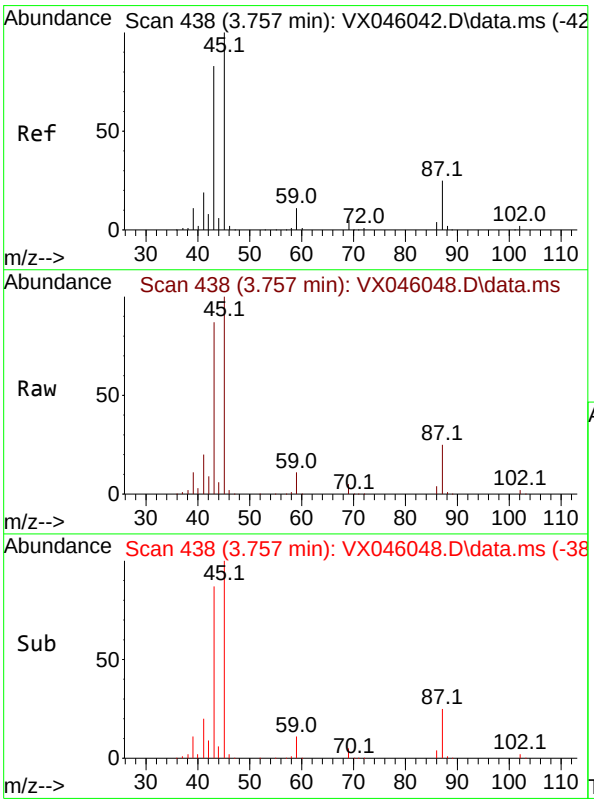
#21
trans-1,2-Dichloroethene
Concen: 50.513 ug/l
RT: 3.087 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Tgt Ion: 96 Resp: 55770

Ion	Ratio	Lower	Upper
96	100		
61	149.3	119.5	179.3
98	64.6	50.0	75.0

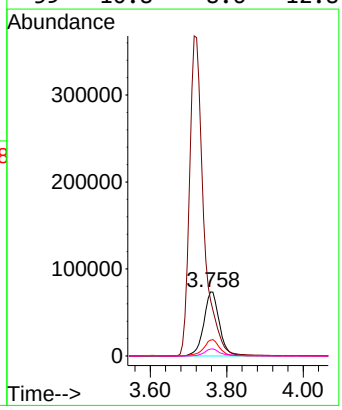


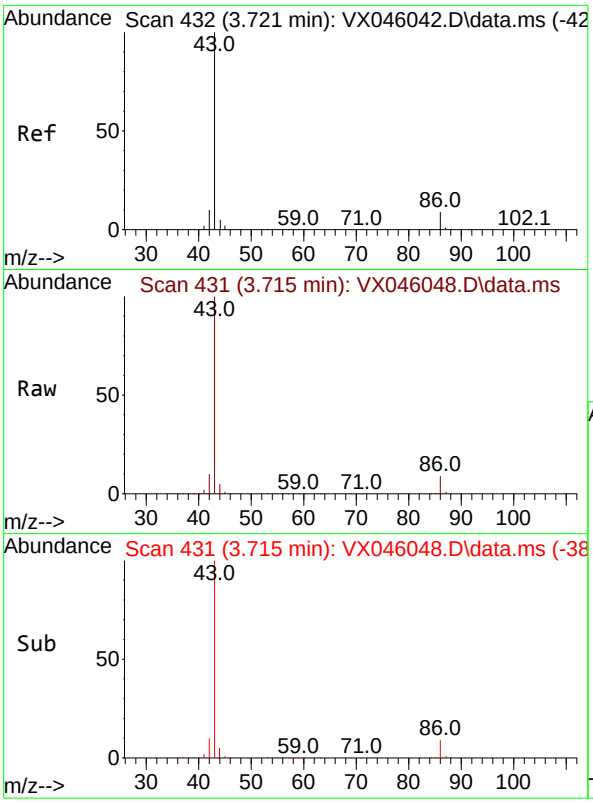


#22
Diisopropyl ether
Concen: 51.800 ug/l
RT: 3.757 min Scan# 438
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 45 Resp: 209946

Ion	Ratio	Lower	Upper
45	100		
43	86.9	66.6	100.0
87	24.8	19.8	29.6
59	10.8	8.6	12.8



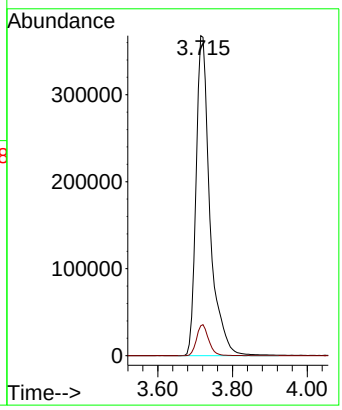


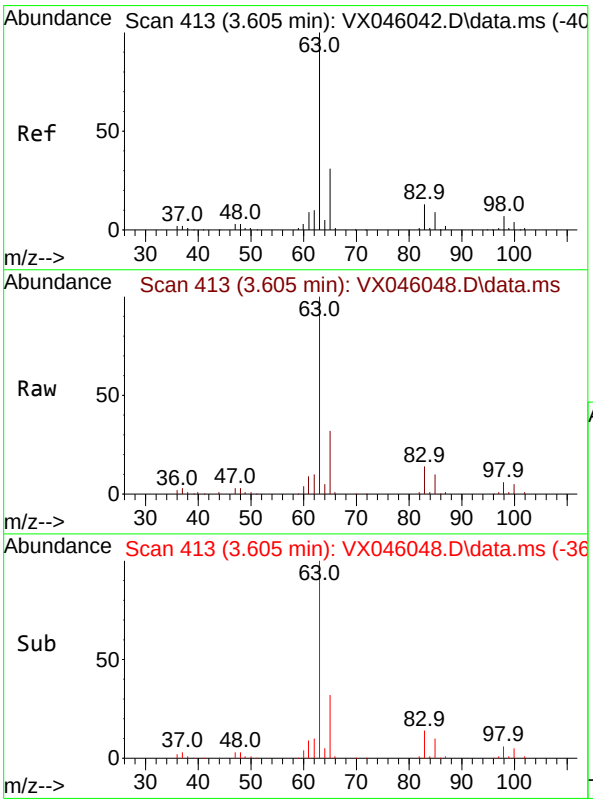
#23
Vinyl Acetate
Concen: 265.585 ug/l
RT: 3.715 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Tgt Ion: 43 Resp: 946746

Ion	Ratio	Lower	Upper
43	100		
86	9.4	7.5	11.3

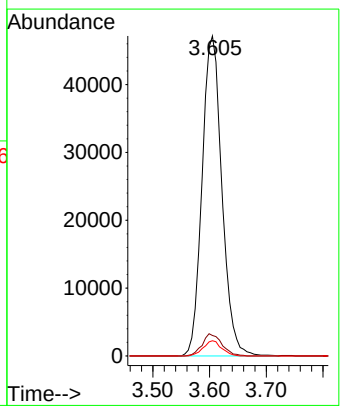


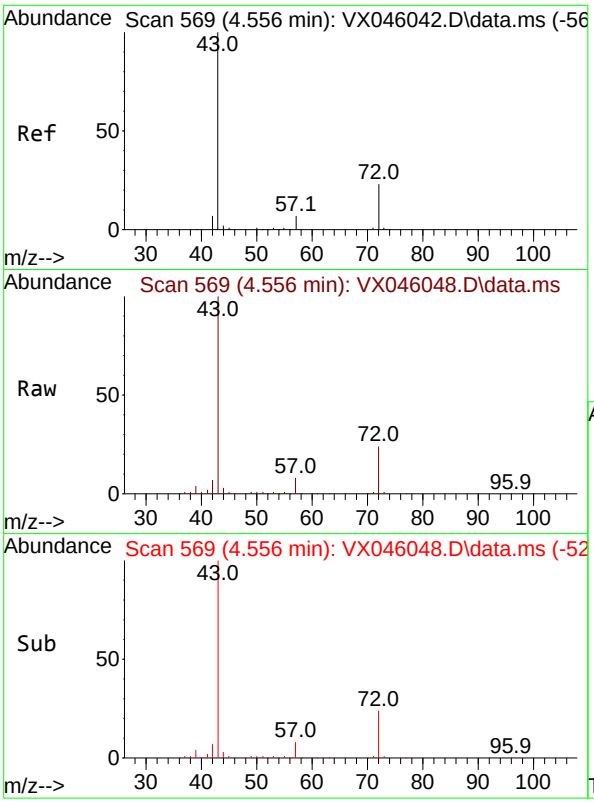


#24
1,1-Dichloroethane
Concen: 50.825 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 63 Resp: 114733

Ion	Ratio	Lower	Upper
63	100		
98	6.4	3.6	10.8
100	4.8	2.1	6.3



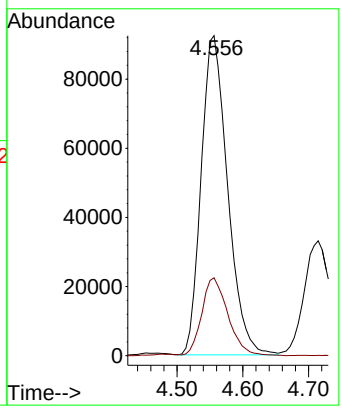


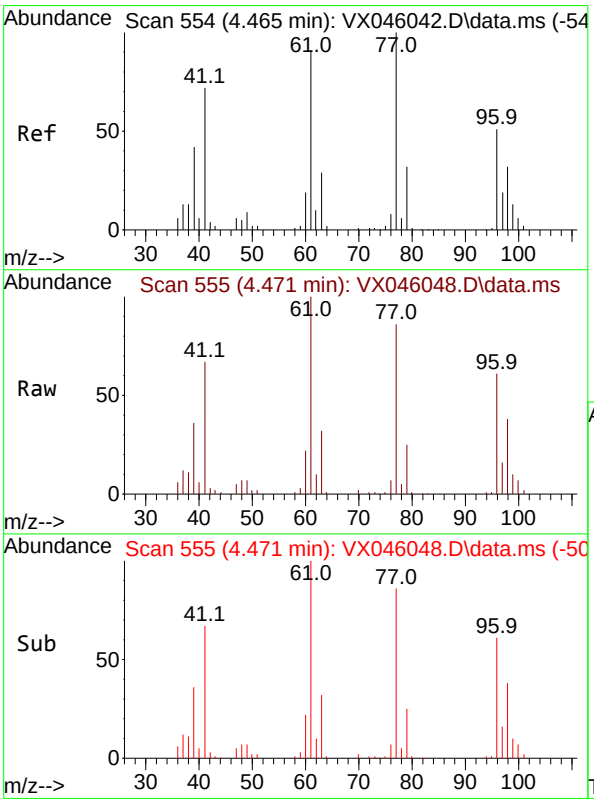
#25
2-Butanone
Concen: 257.110 ug/l
RT: 4.556 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Tgt Ion: 43 Resp: 258339

Ion	Ratio	Lower	Upper
43	100		
72	24.3	18.4	27.6

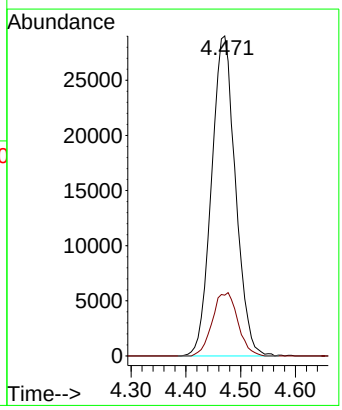


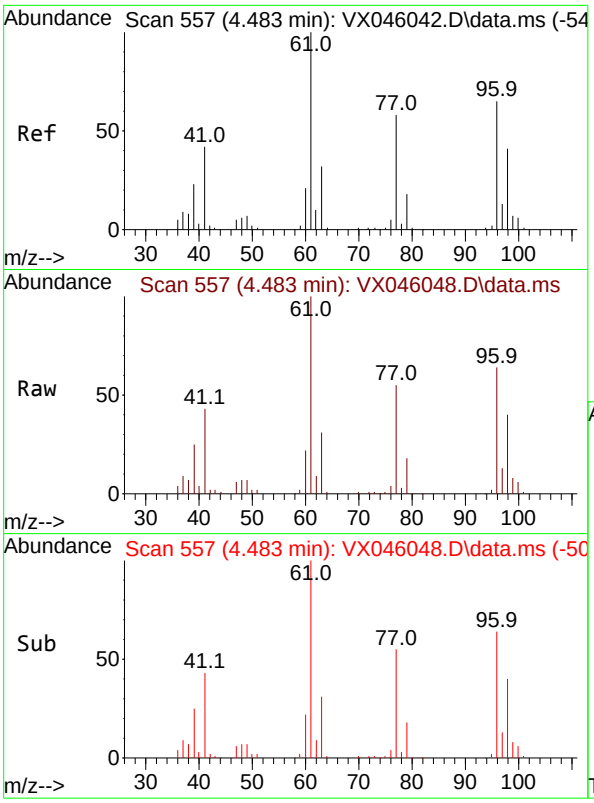


#26
2,2-Dichloropropane
Concen: 49.934 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 77 Resp: 88229

Ion	Ratio	Lower	Upper
77	100		
97	21.0	10.5	31.5



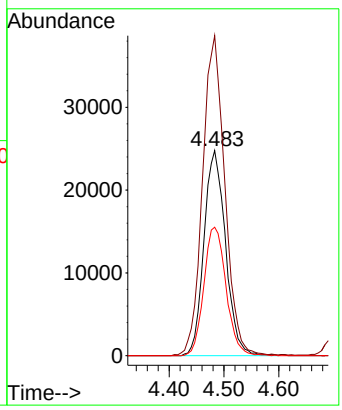


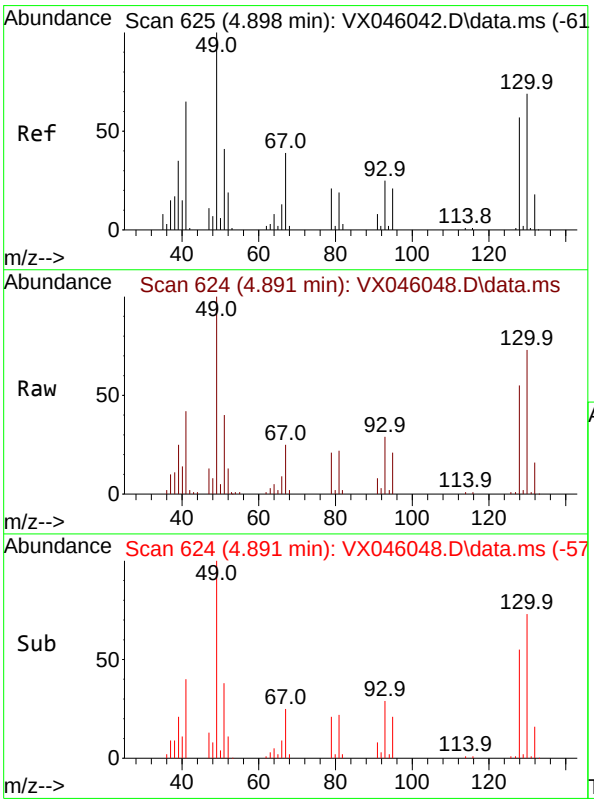
#27
cis-1,2-Dichloroethene
Concen: 50.956 ug/l
RT: 4.483 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Tgt Ion: 96 Resp: 67727

Ion	Ratio	Lower	Upper
96	100		
61	160.7	0.0	322.8
98	64.4	0.0	129.0

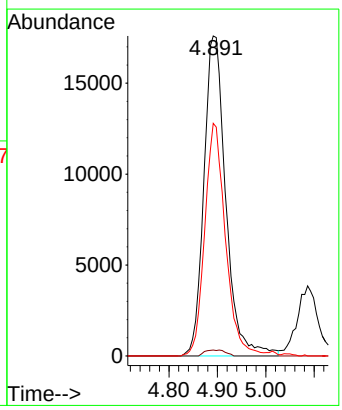


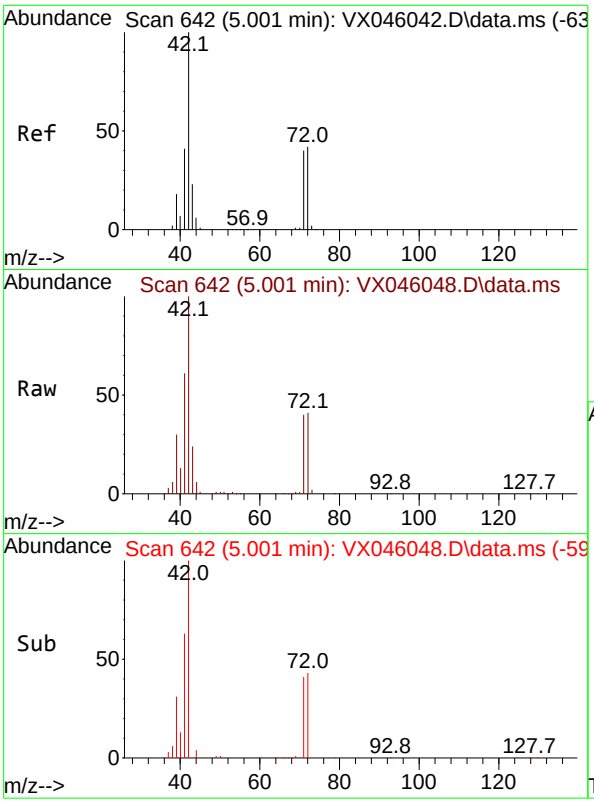


#28
Bromochloromethane
Concen: 50.975 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 49 Resp: 55390

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	4.0
130	68.7	56.2	84.2



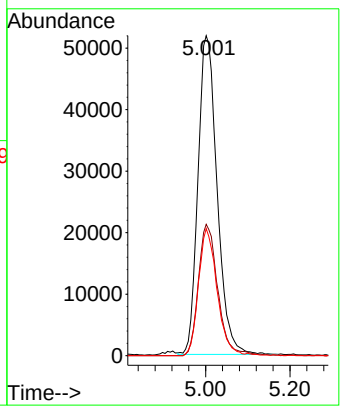


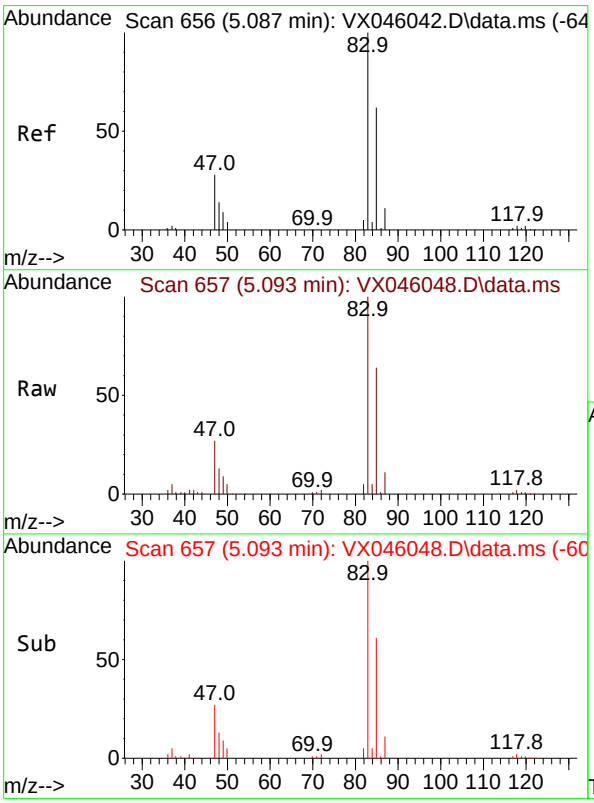
#29
Tetrahydrofuran
Concen: 259.958 ug/l
RT: 5.001 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Tgt Ion: 42 Resp: 163675

Ion	Ratio	Lower	Upper
42	100		
72	42.0	33.7	50.5
71	38.5	31.4	47.2

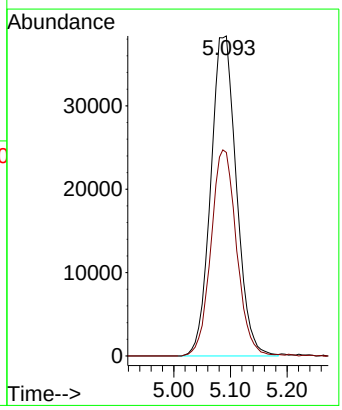


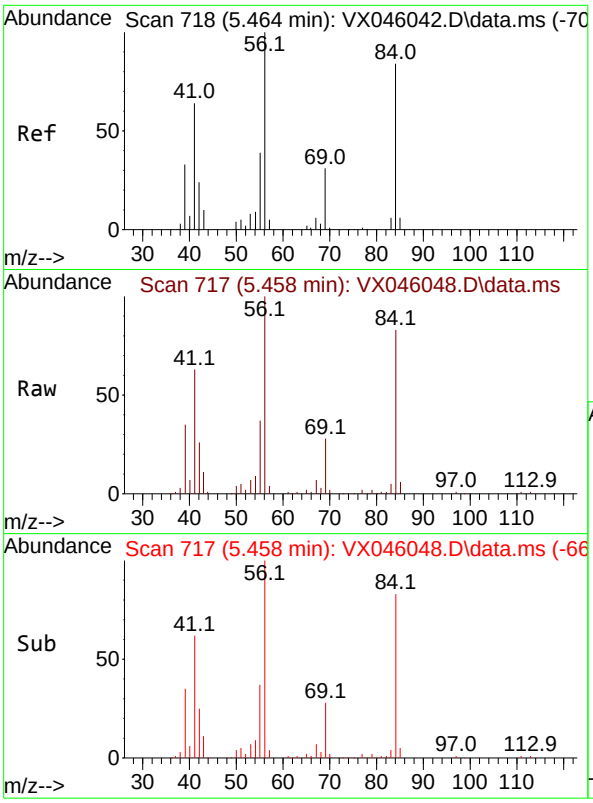


#30
Chloroform
Concen: 51.332 ug/l
RT: 5.093 min Scan# 657
Delta R.T. 0.006 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 83 Resp: 120782

Ion	Ratio	Lower	Upper
83	100		
85	63.6	49.3	73.9



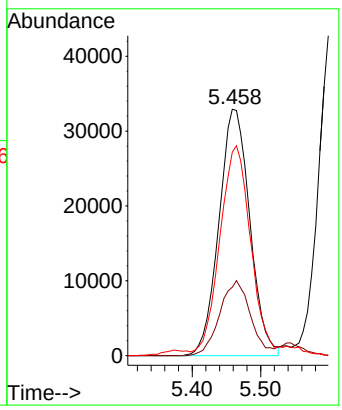


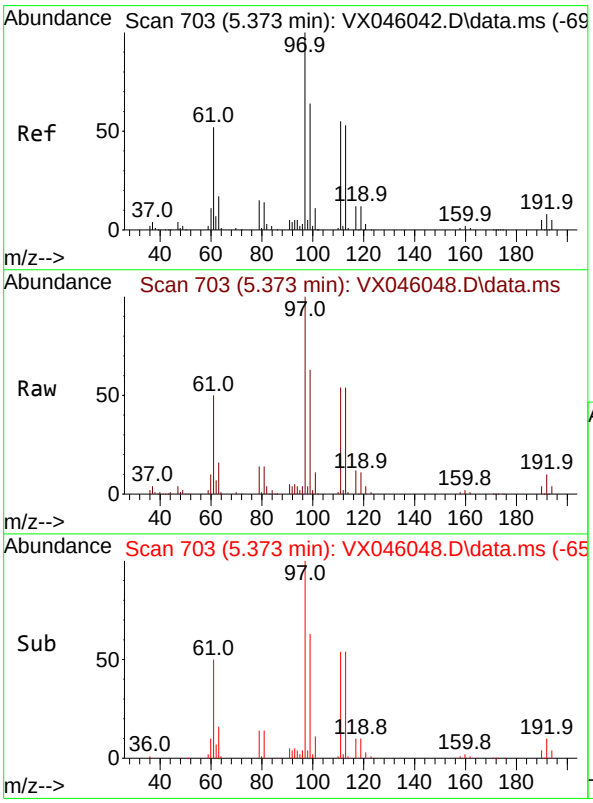
#31
Cyclohexane
Concen: 50.147 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Tgt Ion: 56 Resp: 103158

Ion	Ratio	Lower	Upper
56	100		
69	27.8	24.4	36.6
84	80.5	66.9	100.3

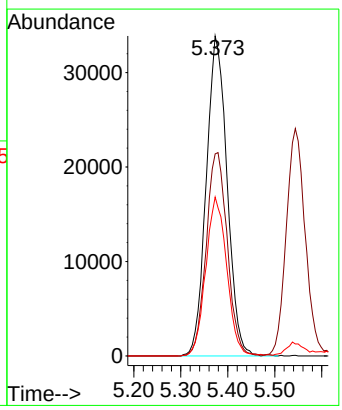


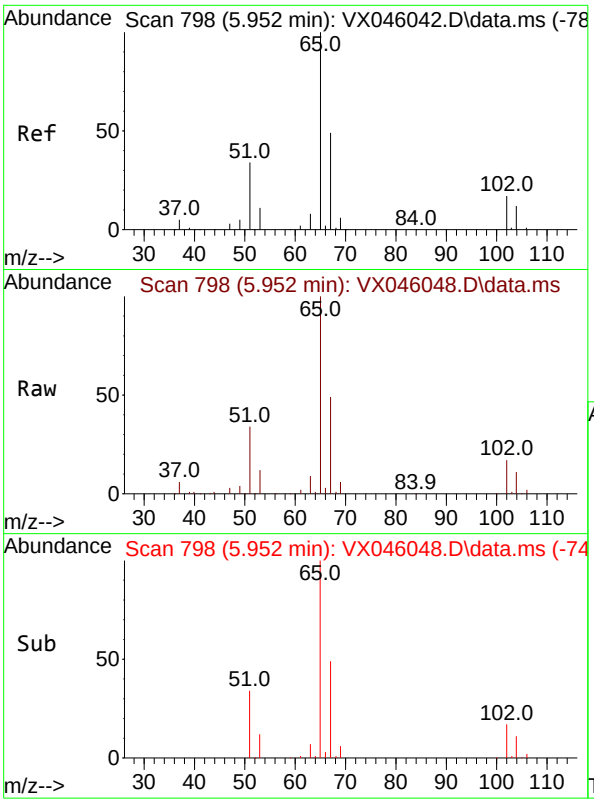


#32
1,1,1-Trichloroethane
Concen: 51.108 ug/l
RT: 5.373 min Scan# 703
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 97 Resp: 104243

Ion	Ratio	Lower	Upper
97	100		
99	64.5	51.8	77.6
61	50.2	40.1	60.1



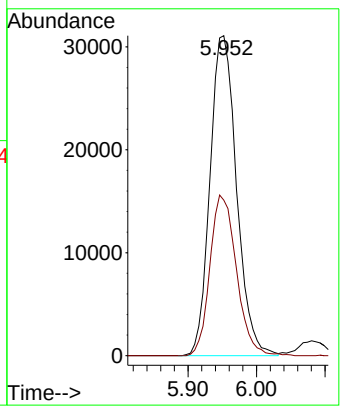


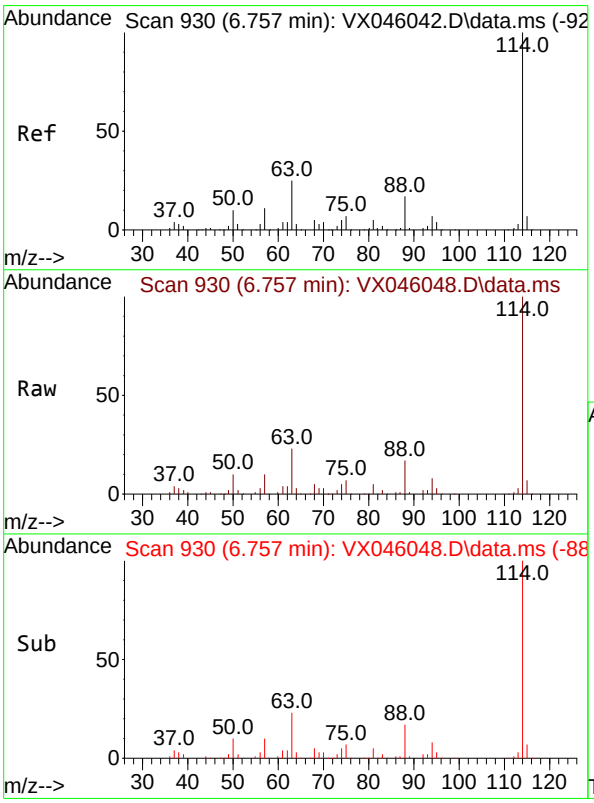
#33
1,2-Dichloroethane-d4
Concen: 48.509 ug/l
RT: 5.952 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Tgt Ion: 65 Resp: 83733

Ion	Ratio	Lower	Upper
65	100		
67	50.0	0.0	99.0

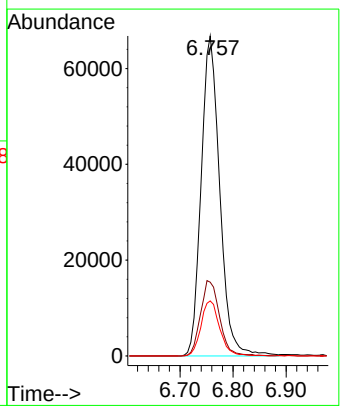


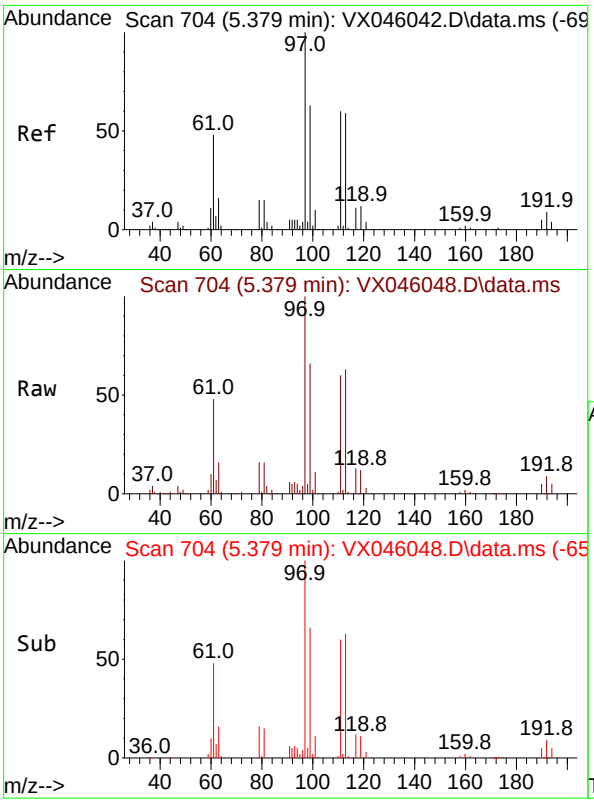


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion:114 Resp: 162651

Ion	Ratio	Lower	Upper
114	100		
63	23.1	0.0	49.2
88	17.2	0.0	33.6



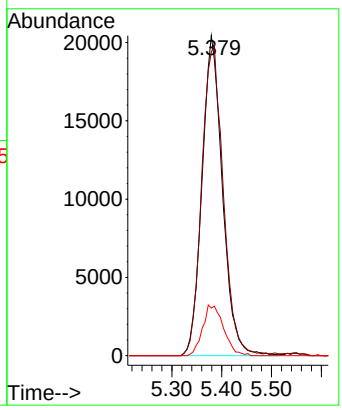


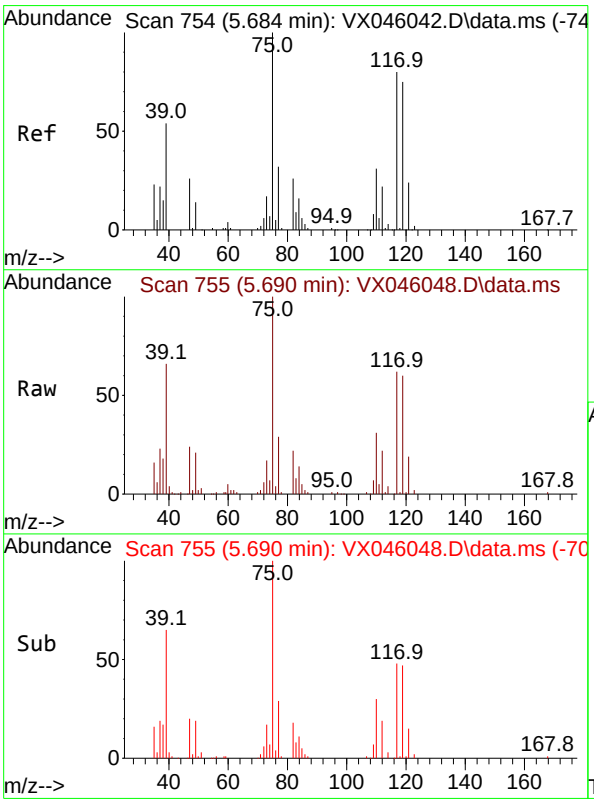
#35
Dibromofluoromethane
Concen: 49.683 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Tgt Ion:113 Resp: 58192

Ion	Ratio	Lower	Upper
113	100		
111	102.1	83.1	124.7
192	16.2	13.3	19.9

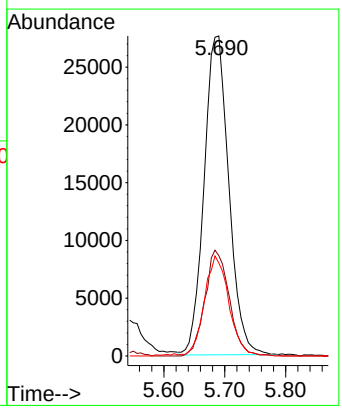


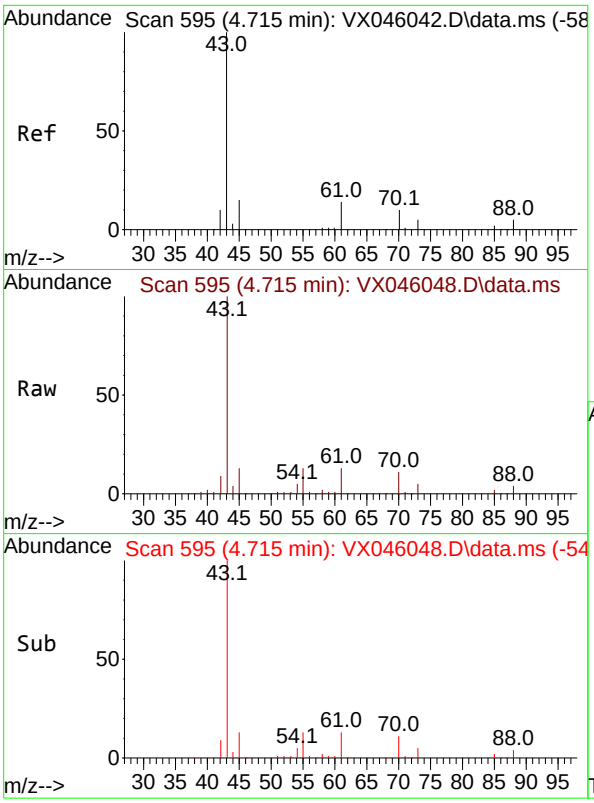


#36
1,1-Dichloropropene
Concen: 49.521 ug/l
RT: 5.690 min Scan# 755
Delta R.T. 0.006 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 75 Resp: 77931

Ion	Ratio	Lower	Upper
75	100		
110	32.7	16.3	48.9
77	31.1	24.3	36.5



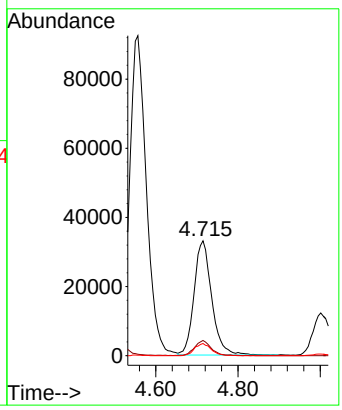


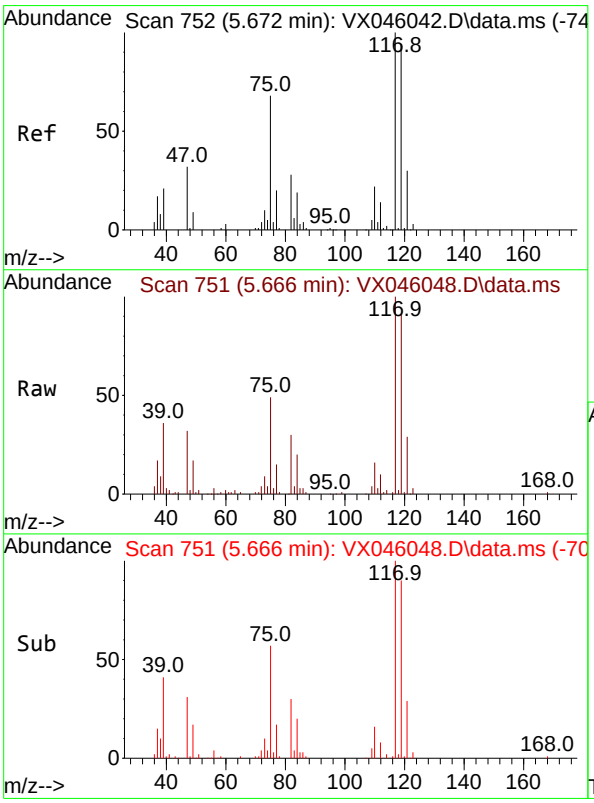
#37
Ethyl Acetate
Concen: 50.714 ug/l
RT: 4.715 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Tgt Ion: 43 Resp: 98604

Ion	Ratio	Lower	Upper
43	100		
61	12.6	10.3	15.5
70	10.0	7.9	11.9

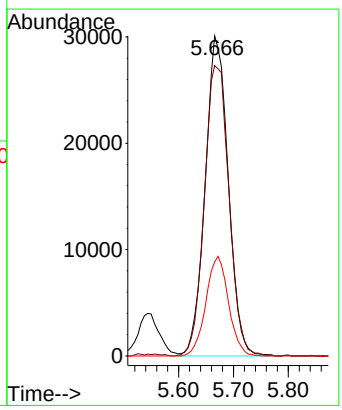


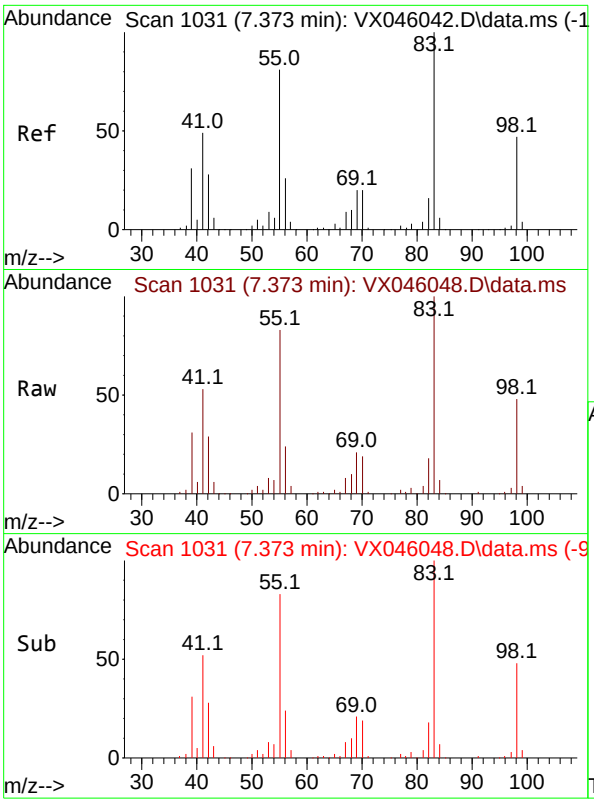


#38
Carbon Tetrachloride
Concen: 49.825 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion:117 Resp: 88100

Ion	Ratio	Lower	Upper
117	100		
119	90.7	75.2	112.8
121	29.4	24.2	36.4



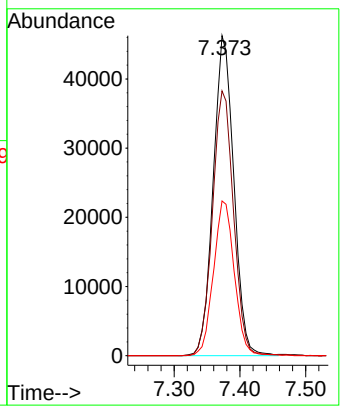


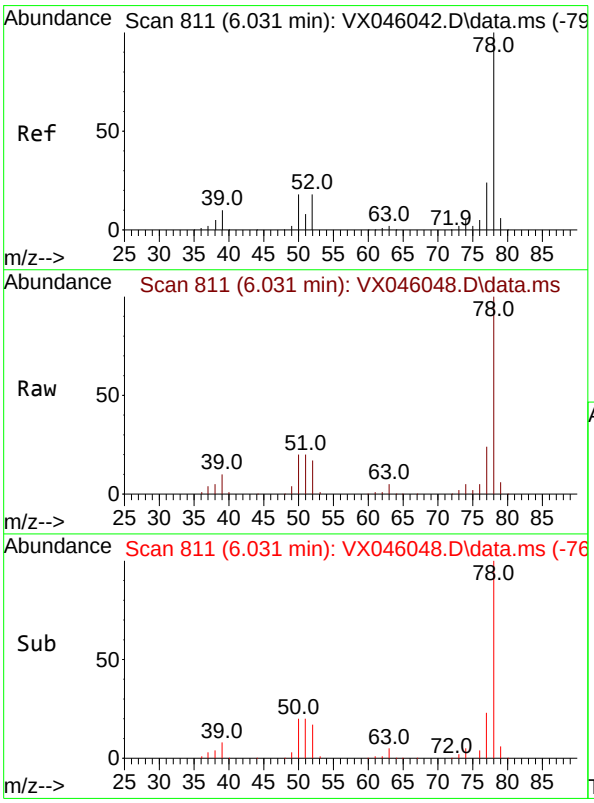
#39
Methylcyclohexane
Concen: 49.757 ug/l
RT: 7.373 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Tgt Ion: 83 Resp: 100808

Ion	Ratio	Lower	Upper
83	100		
55	82.7	64.7	97.1
98	48.3	37.4	56.2

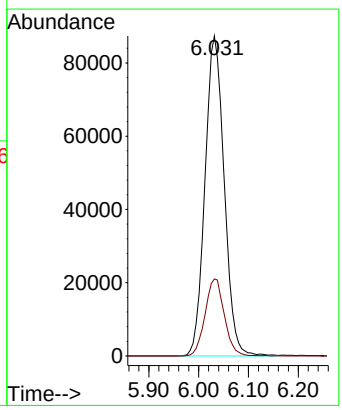


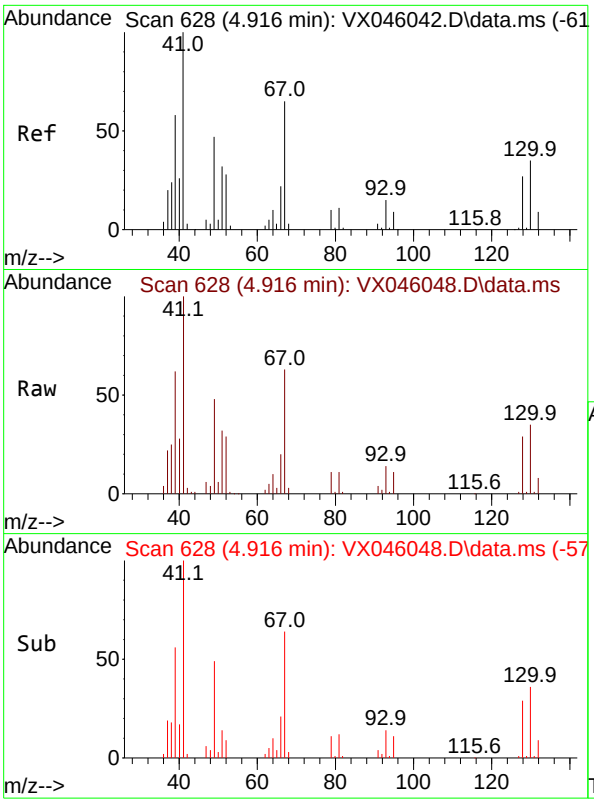


#40
Benzene
Concen: 50.759 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 78 Resp: 233977

Ion	Ratio	Lower	Upper
78	100		
77	24.0	19.0	28.4



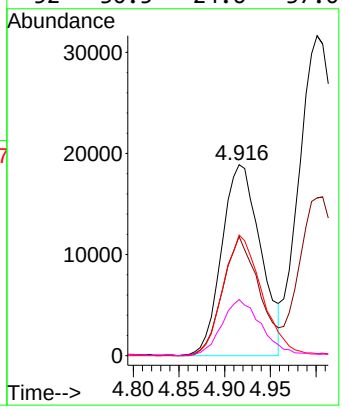


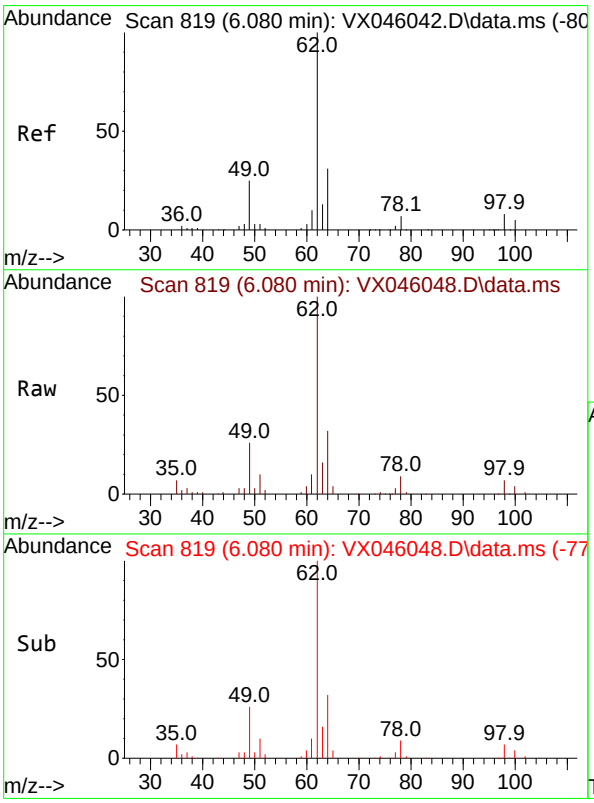
#41
Methacrylonitrile
Concen: 55.076 ug/l
RT: 4.916 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Tgt Ion: 41 Resp: 56017

Ion	Ratio	Lower	Upper
41	100		
39	58.7	47.2	70.8
67	63.7	50.7	76.1
52	30.5	24.6	37.0

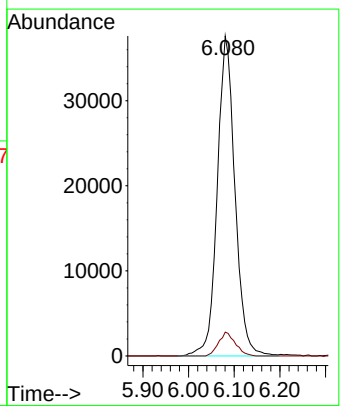


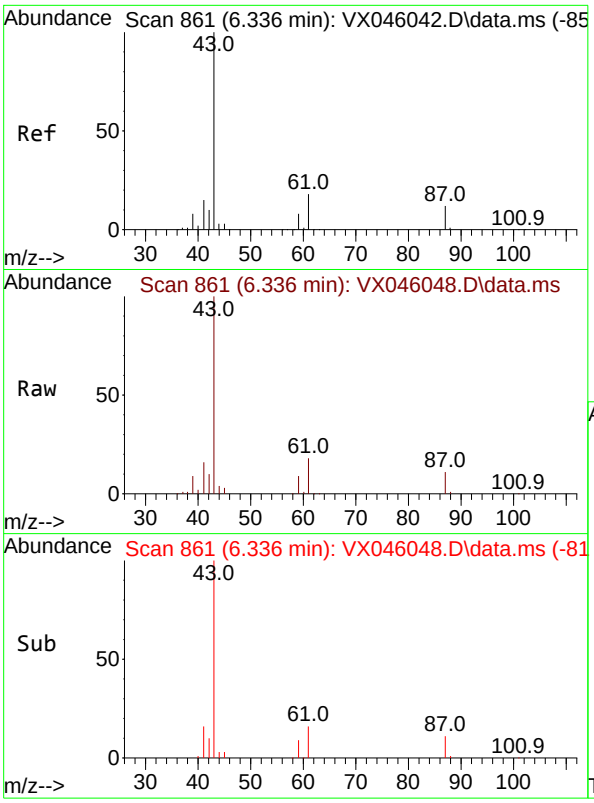


#42
1,2-Dichloroethane
Concen: 50.861 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 62 Resp: 101185

Ion	Ratio	Lower	Upper
62	100		
98	7.1	0.0	15.2



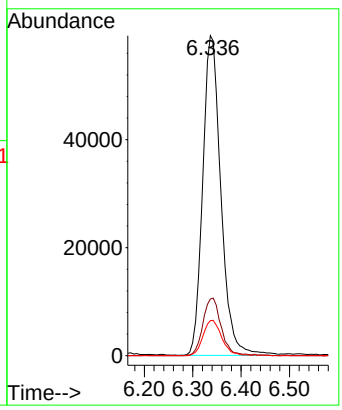


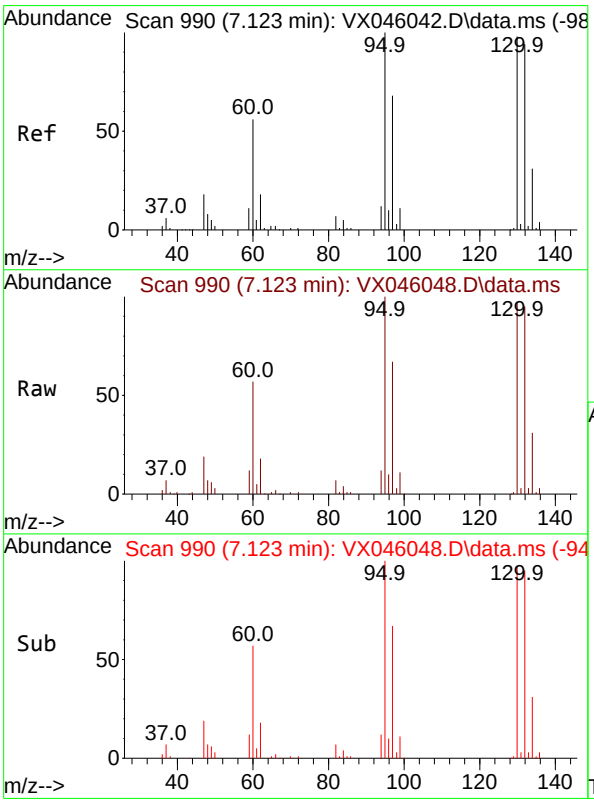
#43
Isopropyl Acetate
Concen: 52.195 ug/l
RT: 6.336 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Tgt Ion: 43 Resp: 154818

Ion	Ratio	Lower	Upper
43	100		
61	17.9	14.3	21.5
87	11.4	9.5	14.3

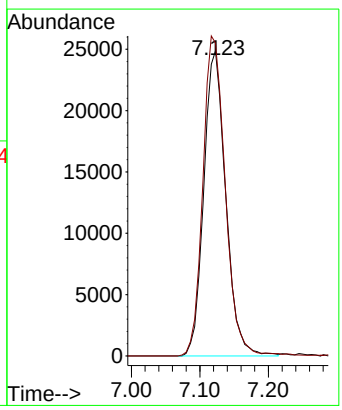


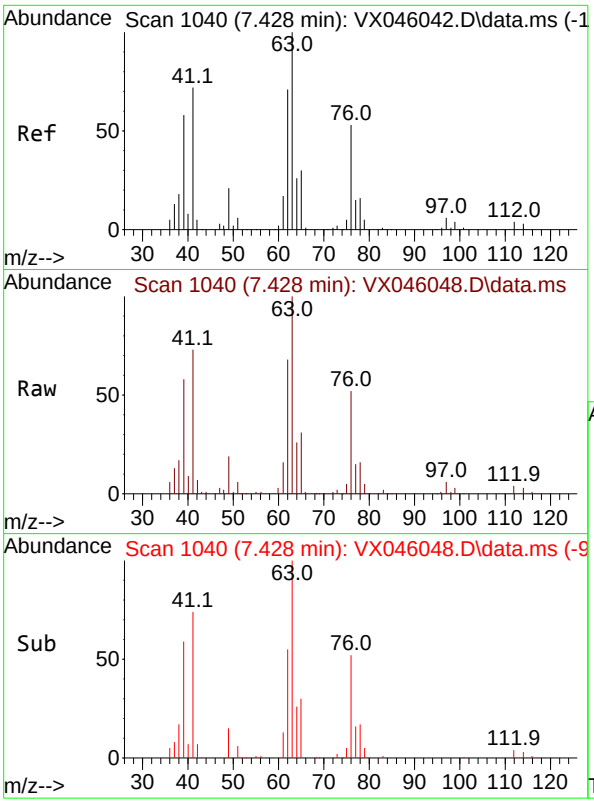


#44
Trichloroethene
Concen: 50.018 ug/l
RT: 7.123 min Scan# 990
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion:130 Resp: 55491

Ion	Ratio	Lower	Upper
130	100		
95	102.6	0.0	204.2



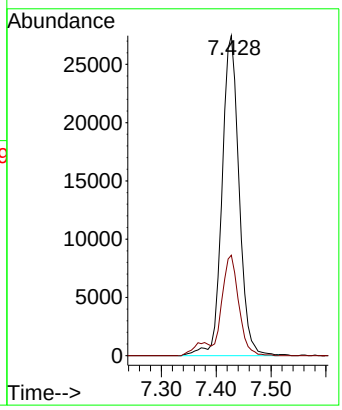


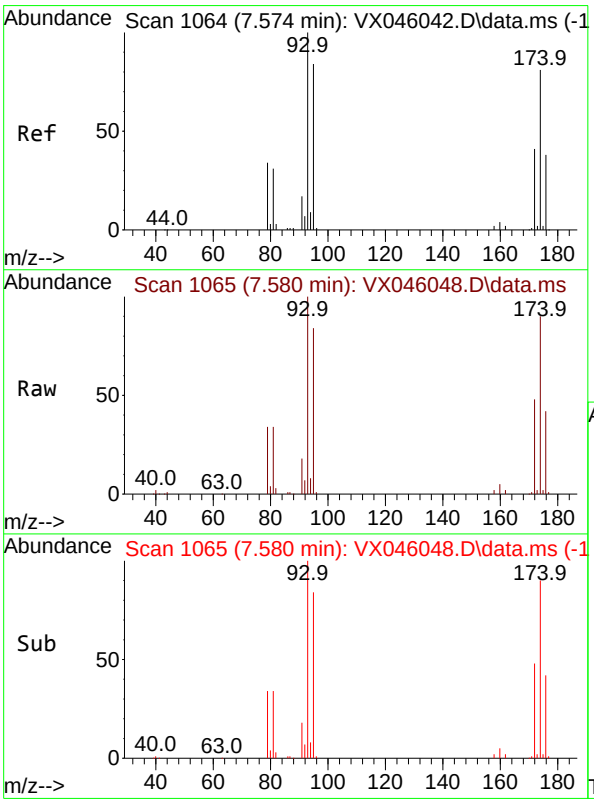
#45
1,2-Dichloropropane
Concen: 51.983 ug/l
RT: 7.428 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Tgt Ion: 63 Resp: 59582

Ion	Ratio	Lower	Upper
63	100		
65	31.4	24.1	36.1

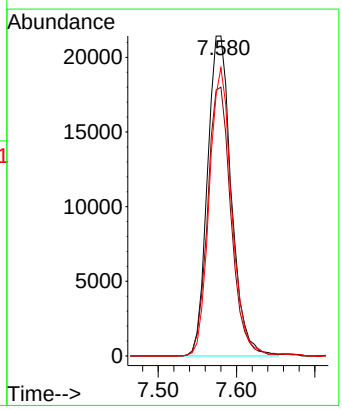


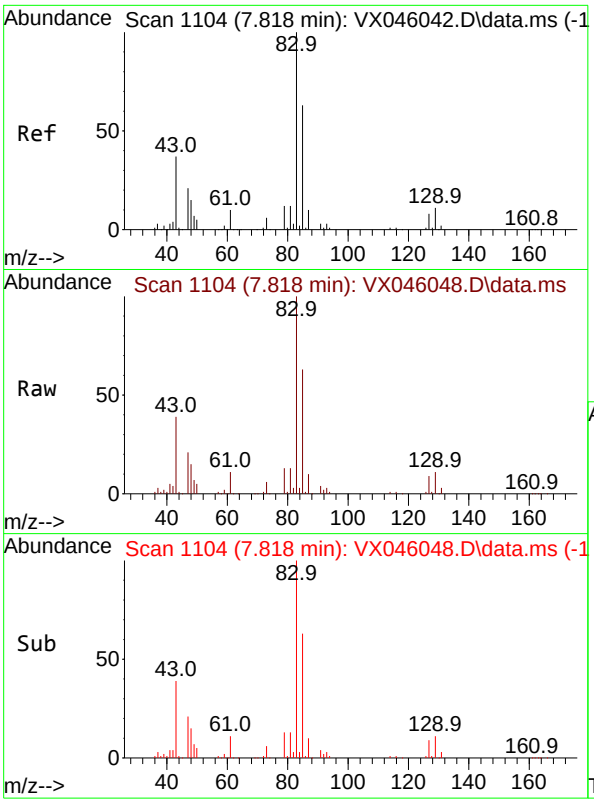


#46
Dibromomethane
Concen: 49.978 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. 0.006 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 93 Resp: 45181

Ion	Ratio	Lower	Upper
93	100		
95	83.0	65.6	98.4
174	84.8	68.2	102.2



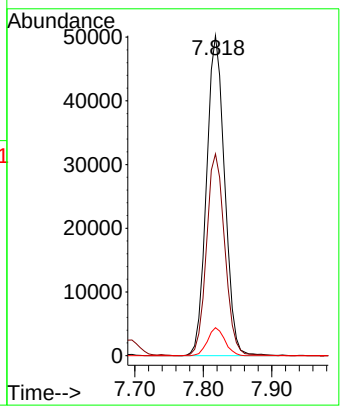


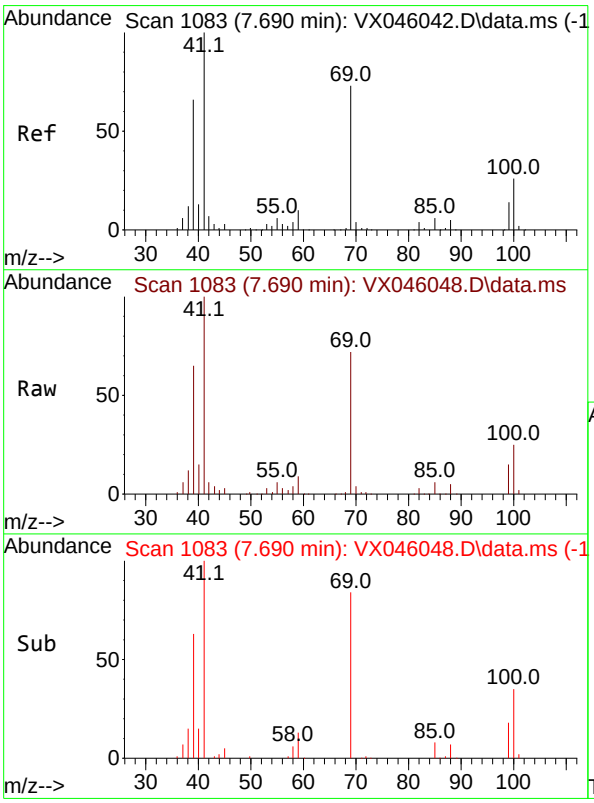
#47
Bromodichloromethane
Concen: 51.889 ug/l
RT: 7.818 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Tgt Ion: 83 Resp: 92388

Ion	Ratio	Lower	Upper
83	100		
85	63.0	50.5	75.7
127	8.8	6.5	9.7

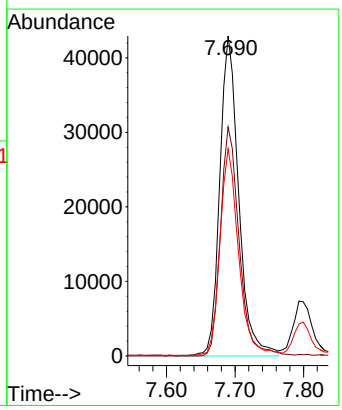


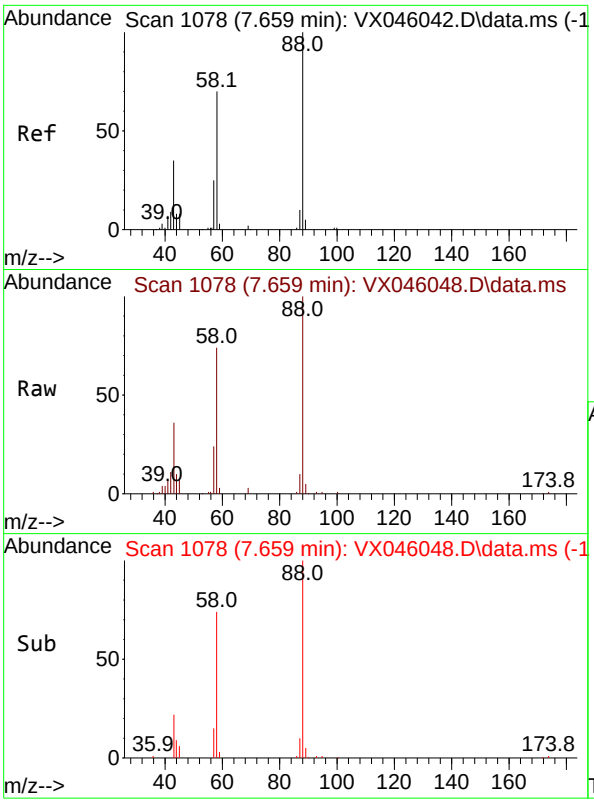


#48
Methyl methacrylate
Concen: 54.226 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 41 Resp: 82144

Ion	Ratio	Lower	Upper
41	100		
69	70.4	58.5	87.7
39	64.2	51.7	77.5



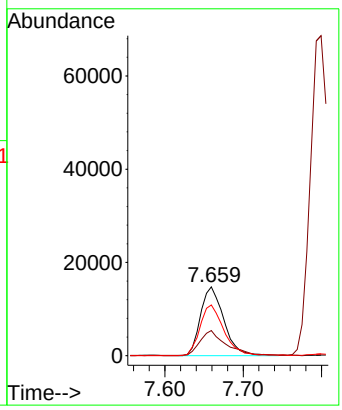


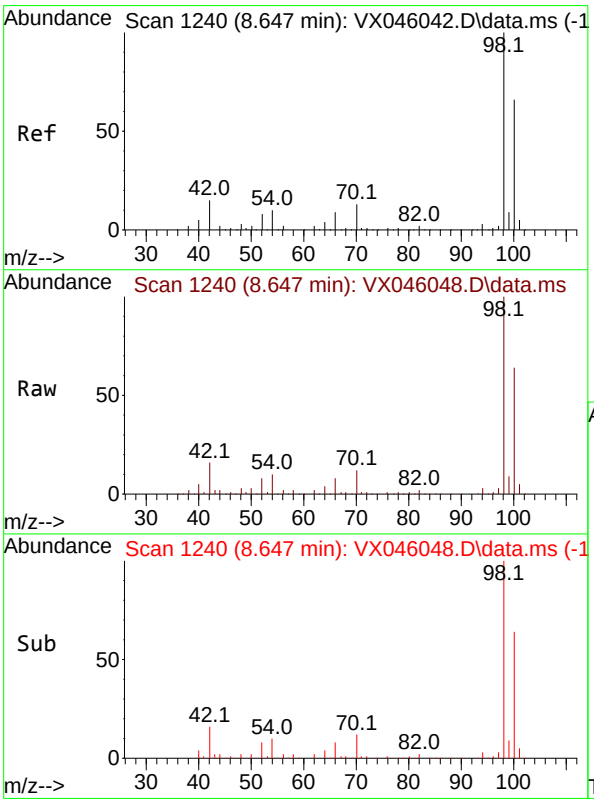
#49
1,4-Dioxane
Concen: 1059.599 ug/l
RT: 7.659 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Tgt Ion: 88 Resp: 30477

Ion	Ratio	Lower	Upper
88	100		
43	39.9	33.4	50.2
58	76.2	58.6	88.0

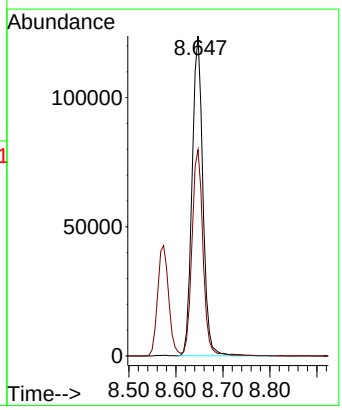


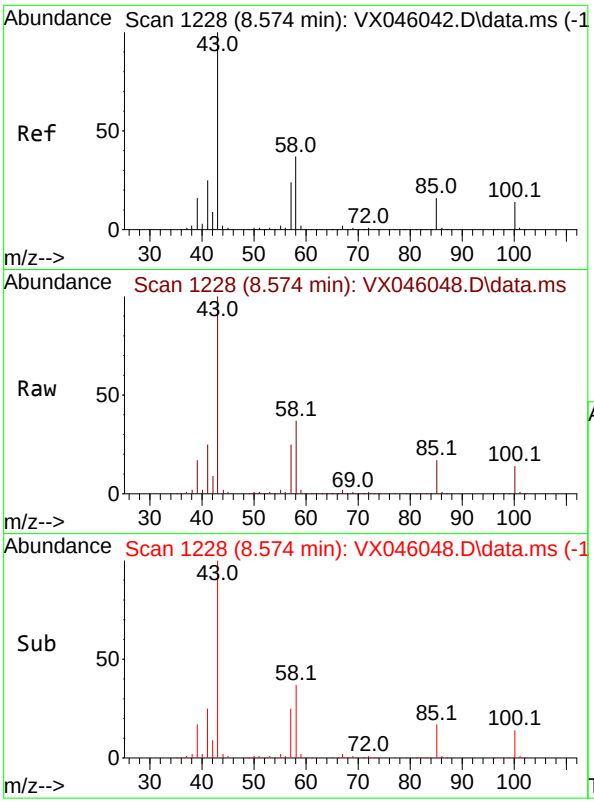


#50
Toluene-d8
Concen: 48.984 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 98 Resp: 198575

Ion	Ratio	Lower	Upper
98	100		
100	65.6	53.5	80.3



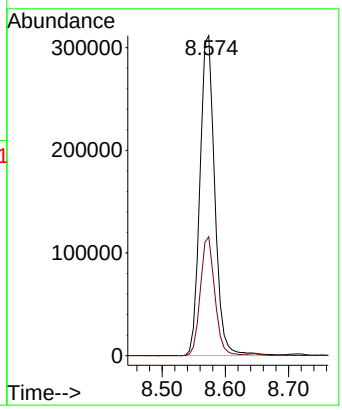


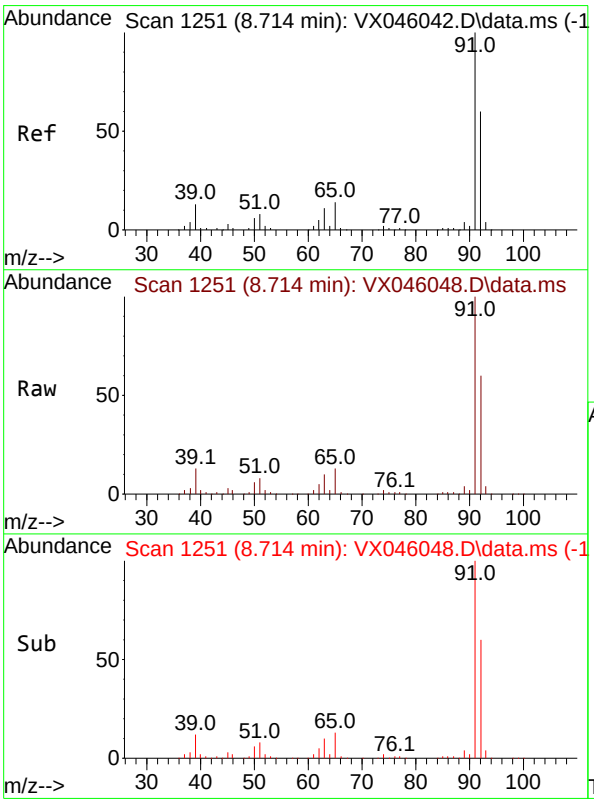
#51
4-Methyl-2-Pentanone
Concen: 259.133 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Tgt Ion: 43 Resp: 510206

Ion	Ratio	Lower	Upper
43	100		
58	36.1	28.9	43.3

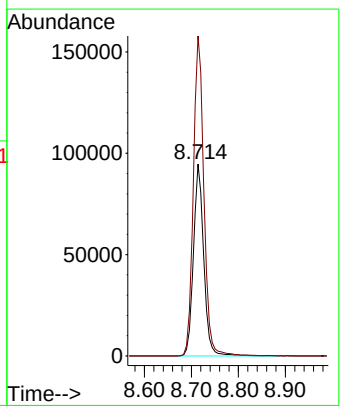


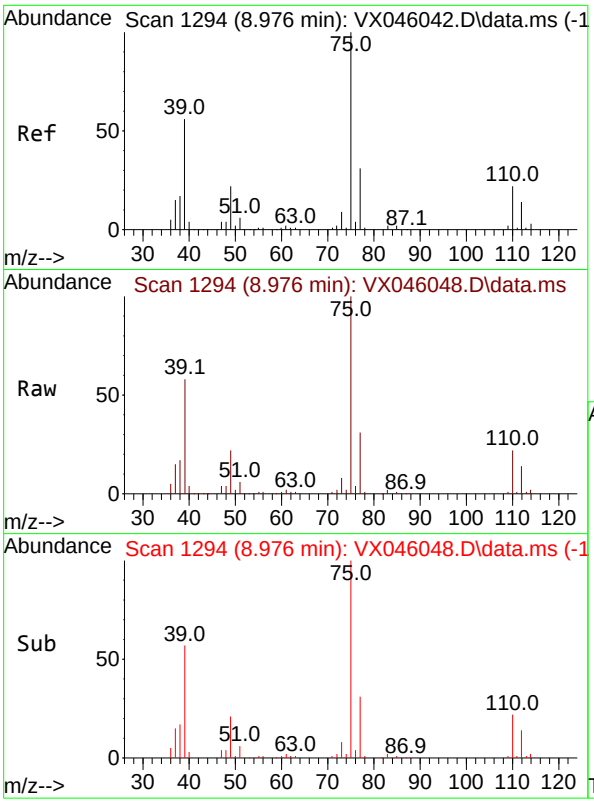


#52
Toluene
Concen: 51.150 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 92 Resp: 144574

Ion	Ratio	Lower	Upper
92	100		
91	171.4	136.6	205.0



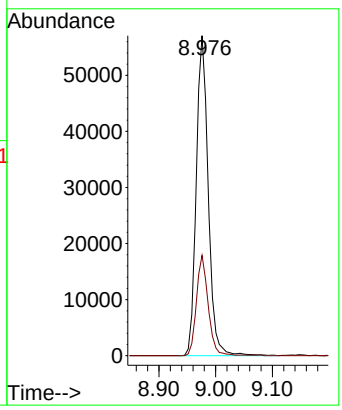


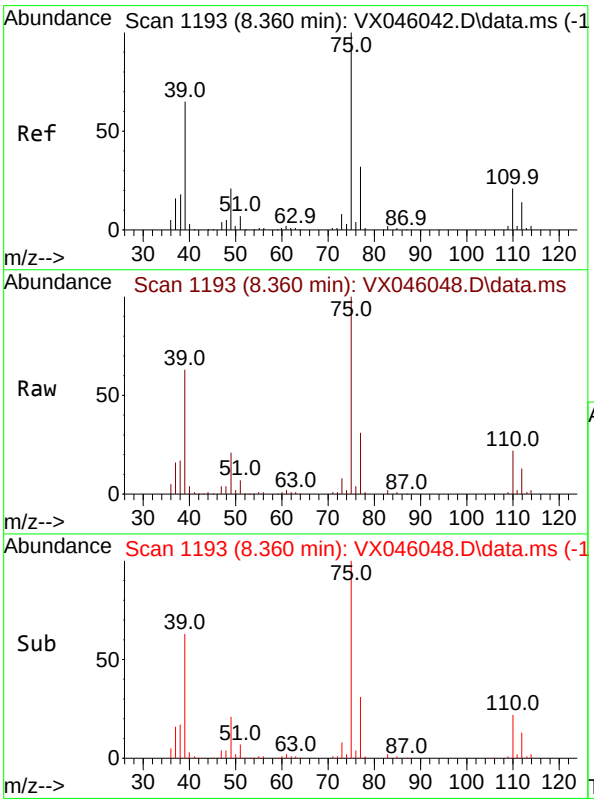
#53
t-1,3-Dichloropropene
Concen: 52.920 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Tgt Ion: 75 Resp: 83751

Ion	Ratio	Lower	Upper
75	100		
77	31.3	25.0	37.6

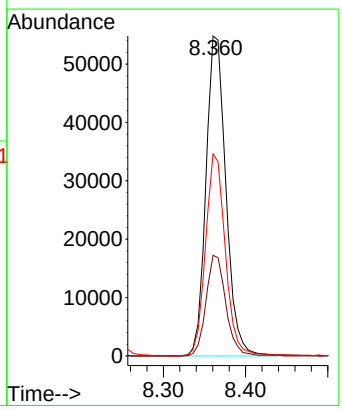


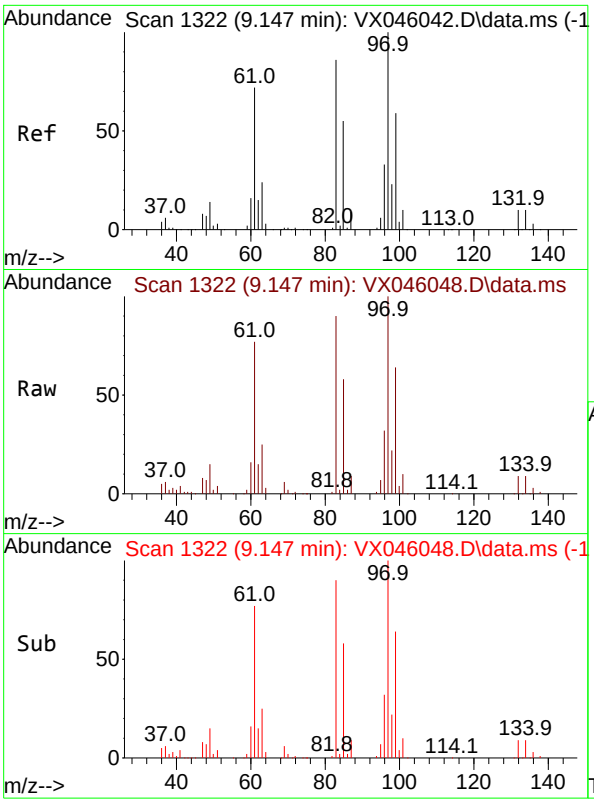


#54
cis-1,3-Dichloropropene
Concen: 52.892 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 75 Resp: 92517

Ion	Ratio	Lower	Upper
75	100		
77	31.5	25.4	38.0
39	63.2	52.2	78.4



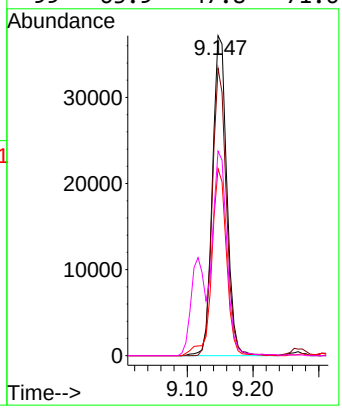


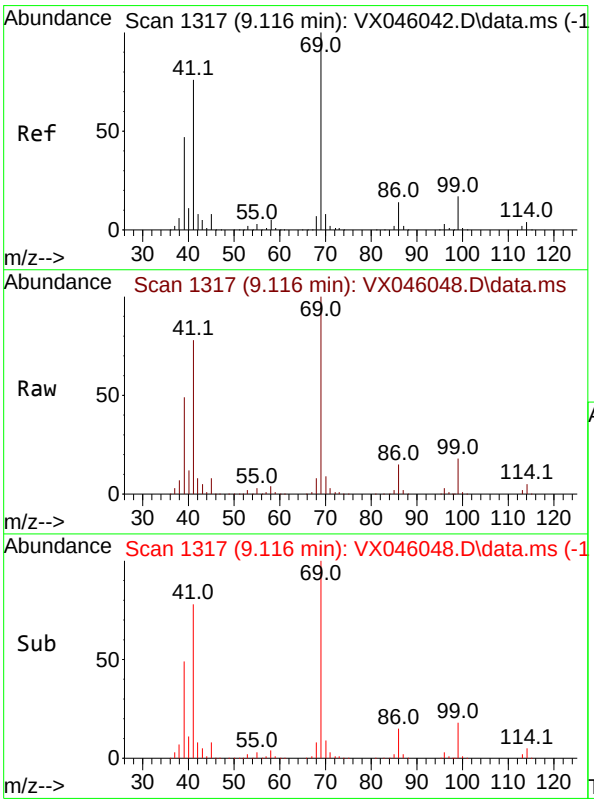
#55
1,1,2-Trichloroethane
Concen: 50.887 ug/l
RT: 9.147 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Tgt Ion: 97 Resp: 56713

Ion	Ratio	Lower	Upper
97	100		
83	89.8	69.0	103.6
85	58.4	44.3	66.5
99	63.9	47.8	71.6

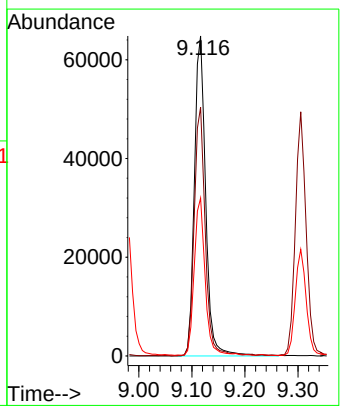


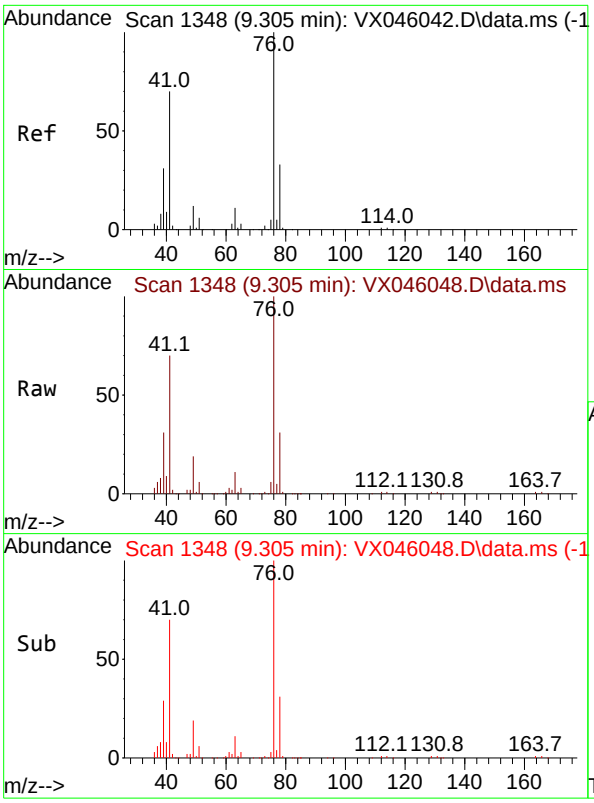


#56
Ethyl methacrylate
Concen: 53.918 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 69 Resp: 95772

Ion	Ratio	Lower	Upper
69	100		
41	76.1	60.8	91.2
39	47.4	39.0	58.6



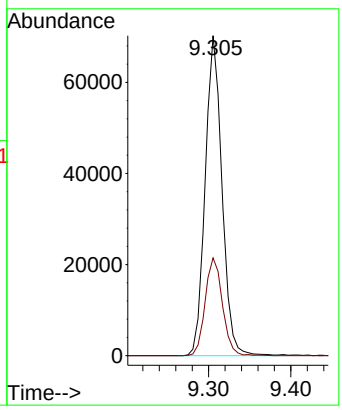


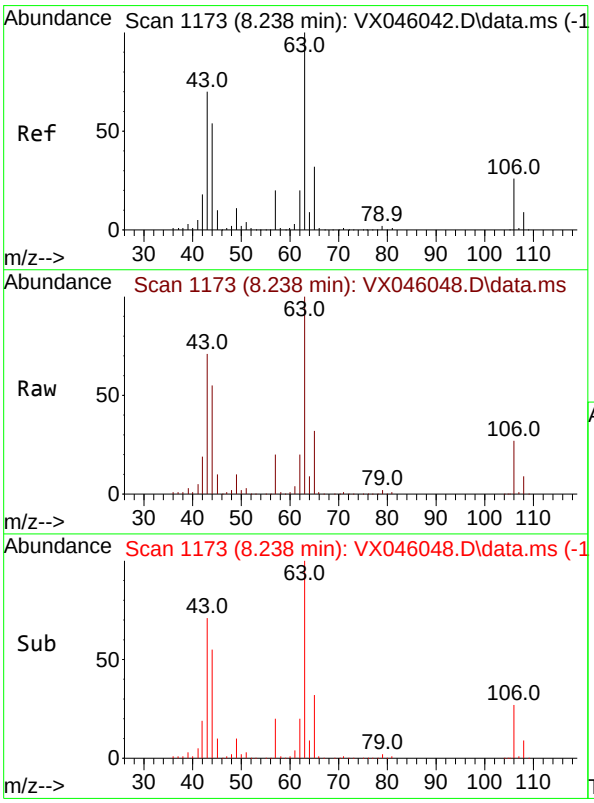
#57
1,3-Dichloropropane
Concen: 49.793 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Tgt Ion: 76 Resp: 99663

Ion	Ratio	Lower	Upper
76	100		
78	31.4	26.3	39.5

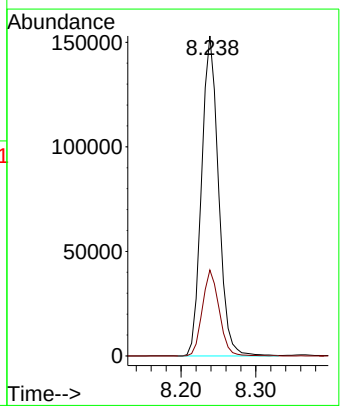


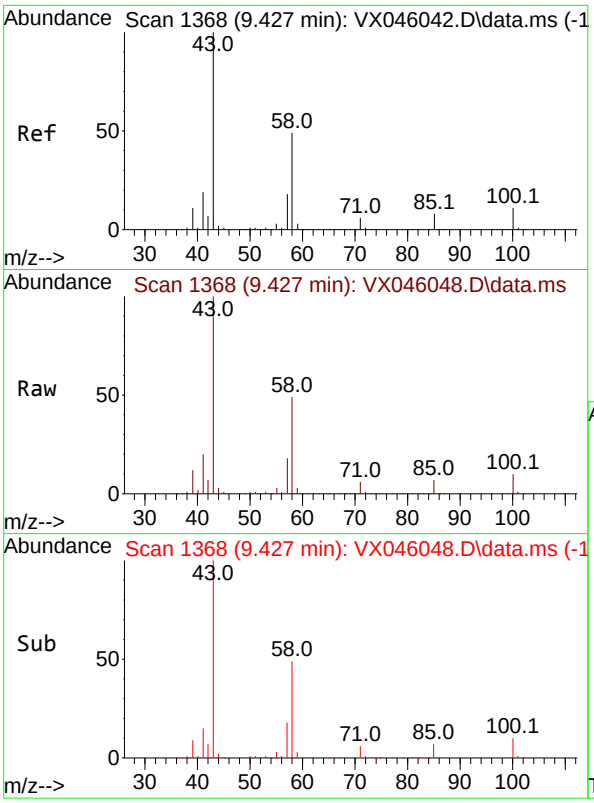


#58
2-Chloroethyl Vinyl ether
Concen: 265.780 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 63 Resp: 240681

Ion	Ratio	Lower	Upper
63	100		
106	26.6	21.5	32.3



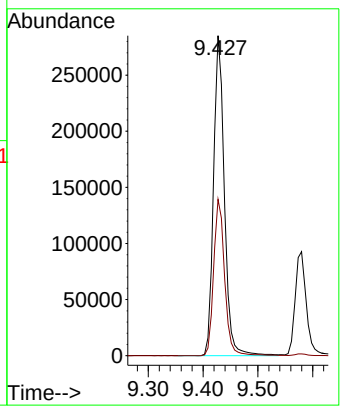


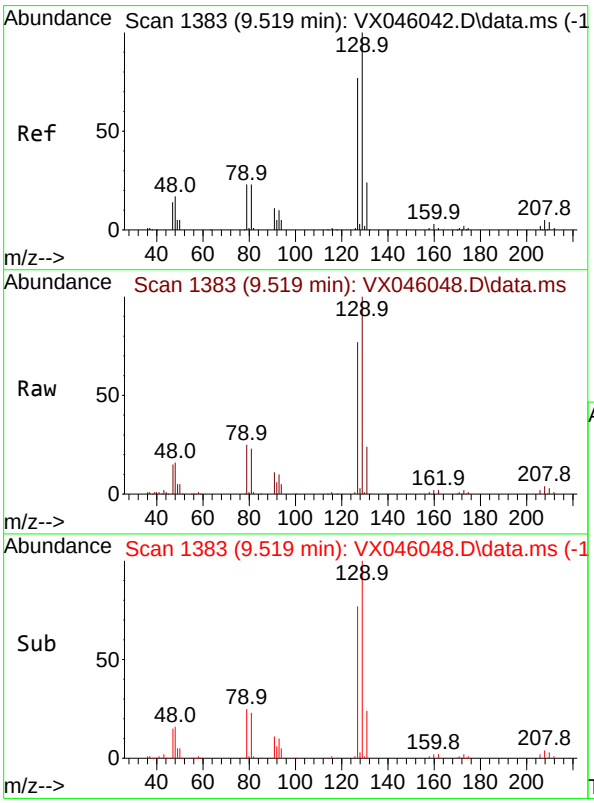
#59
2-Hexanone
Concen: 268.218 ug/l
RT: 9.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Tgt Ion: 43 Resp: 390701

Ion	Ratio	Lower	Upper
43	100		
58	49.6	24.9	74.6

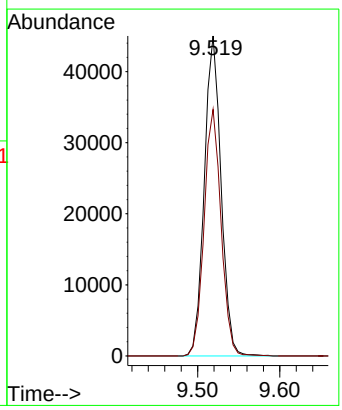


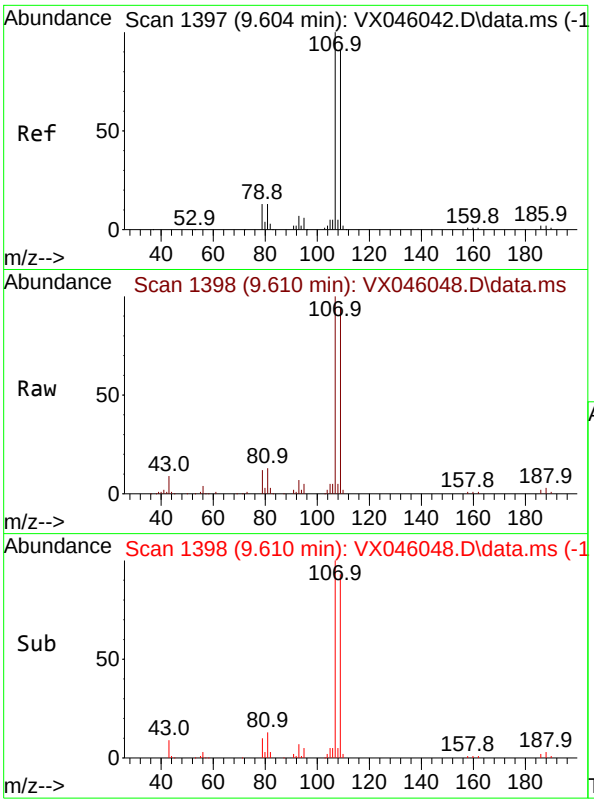


#60
Dibromochloromethane
Concen: 52.075 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion:129 Resp: 63738

Ion	Ratio	Lower	Upper
129	100		
127	77.9	39.3	117.8



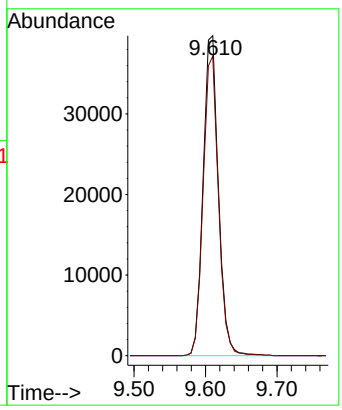


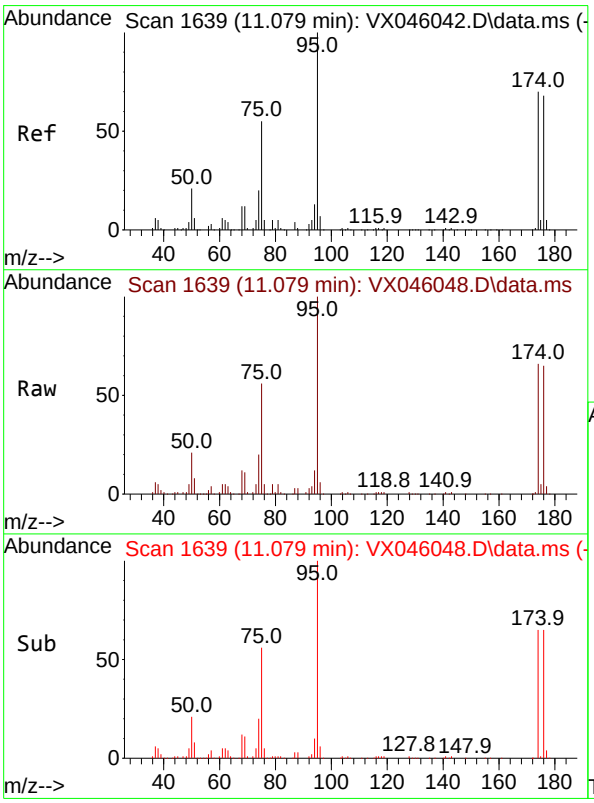
#61
1,2-Dibromoethane
Concen: 51.050 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Tgt Ion:107 Resp: 59134

Ion	Ratio	Lower	Upper
107	100		
109	93.8	73.3	109.9

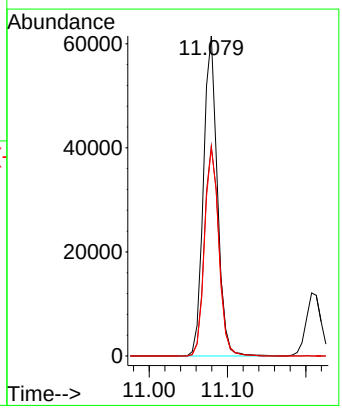


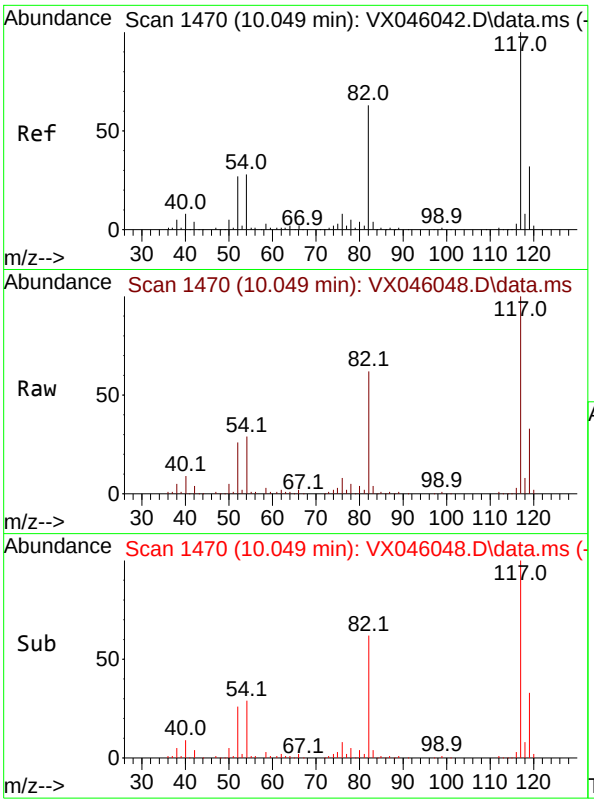


#62
4-Bromofluorobenzene
Concen: 48.596 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 95 Resp: 75568

Ion	Ratio	Lower	Upper
95	100		
174	68.2	0.0	135.8
176	66.5	0.0	131.4



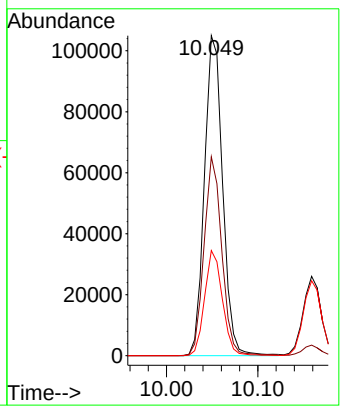


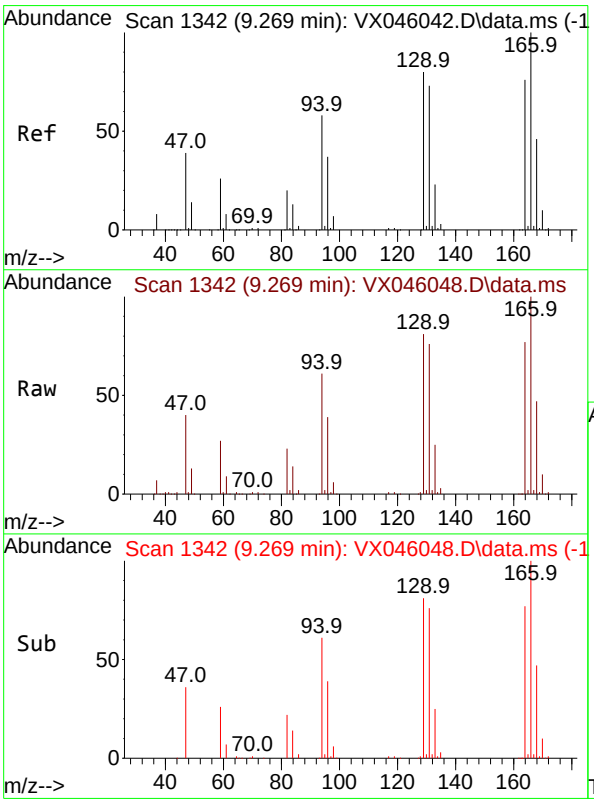
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Tgt Ion:117 Resp: 145078

Ion	Ratio	Lower	Upper
117	100		
82	62.1	50.6	76.0
119	32.9	25.8	38.6

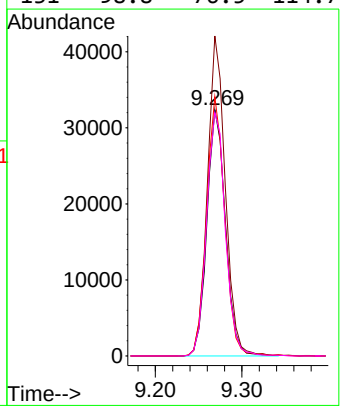


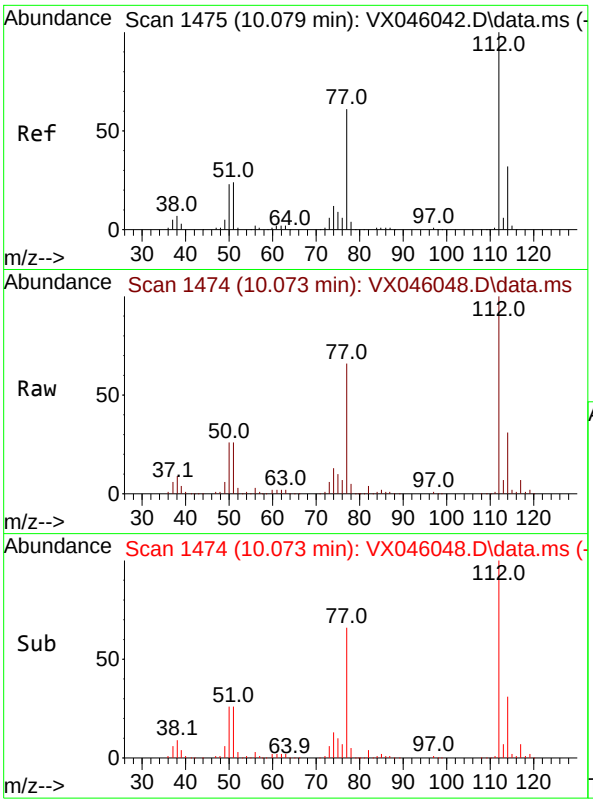


#64
Tetrachloroethene
Concen: 46.795 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion:164 Resp: 48034

Ion	Ratio	Lower	Upper
164	100		
166	129.9	105.0	157.6
129	105.3	83.5	125.3
131	98.8	76.5	114.7



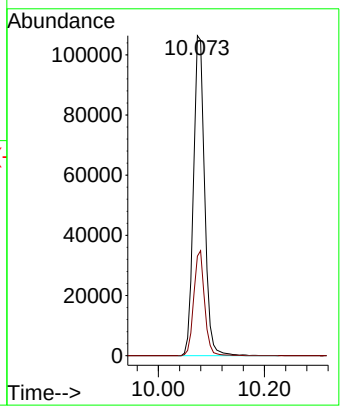


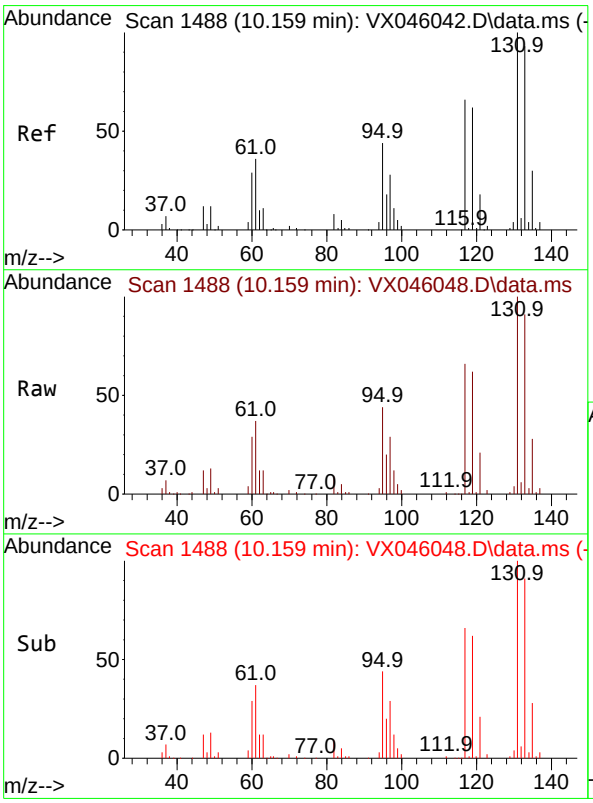
#65
Chlorobenzene
Concen: 48.699 ug/l
RT: 10.073 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Tgt Ion:112 Resp: 154640

Ion	Ratio	Lower	Upper
112	100		
114	31.1	25.4	38.2

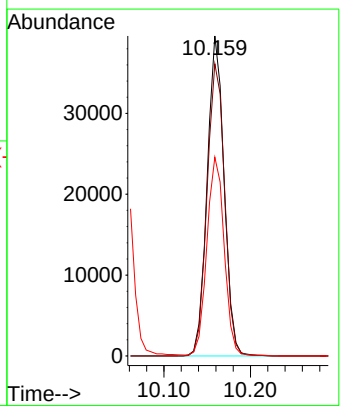


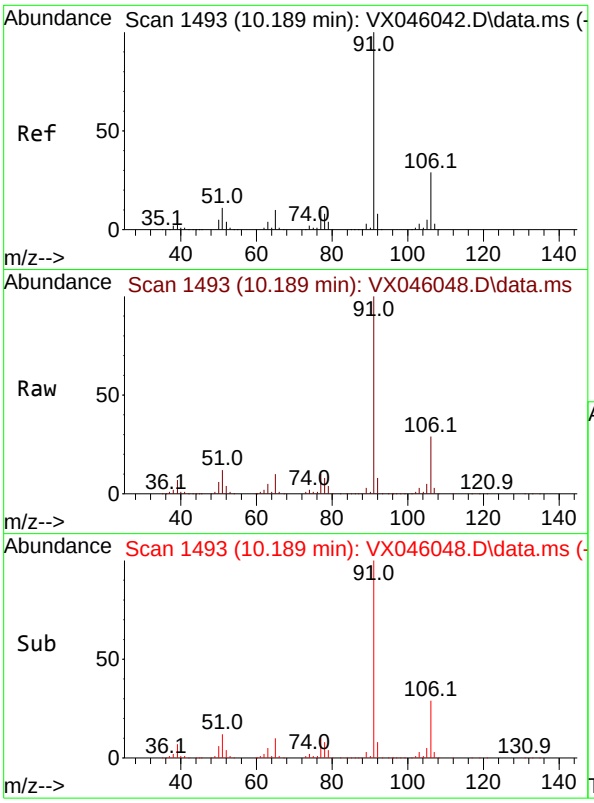


#66
1,1,1,2-Tetrachloroethane
Concen: 49.557 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion:131 Resp: 53735

Ion	Ratio	Lower	Upper
131	100		
133	94.9	47.3	141.9
119	63.7	31.6	95.0



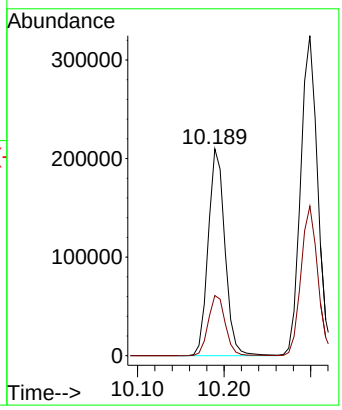


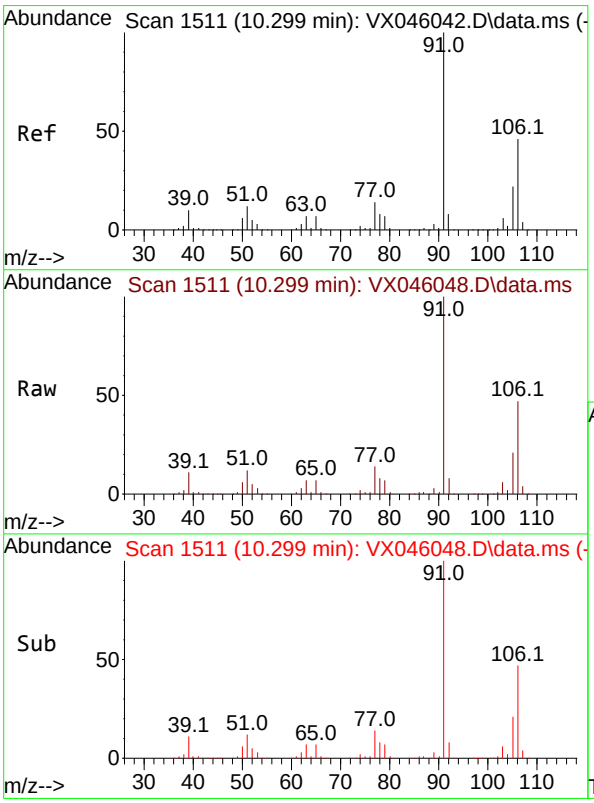
#67
Ethyl Benzene
Concen: 50.245 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Tgt Ion: 91 Resp: 281239

Ion	Ratio	Lower	Upper
91	100		
106	29.1	23.4	35.2

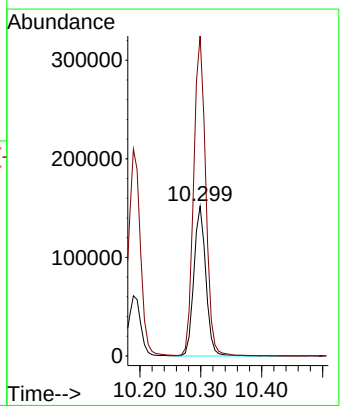


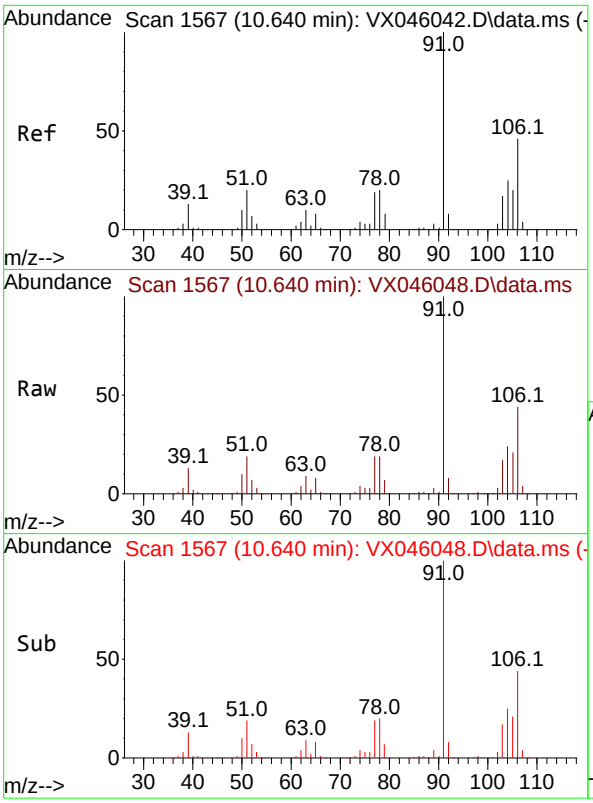


#68
m/p-Xylenes
Concen: 101.022 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion:106 Resp: 206813

Ion	Ratio	Lower	Upper
106	100		
91	215.6	171.2	256.8



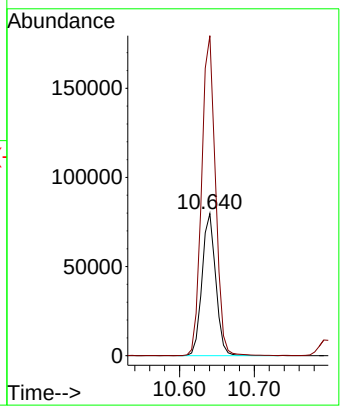


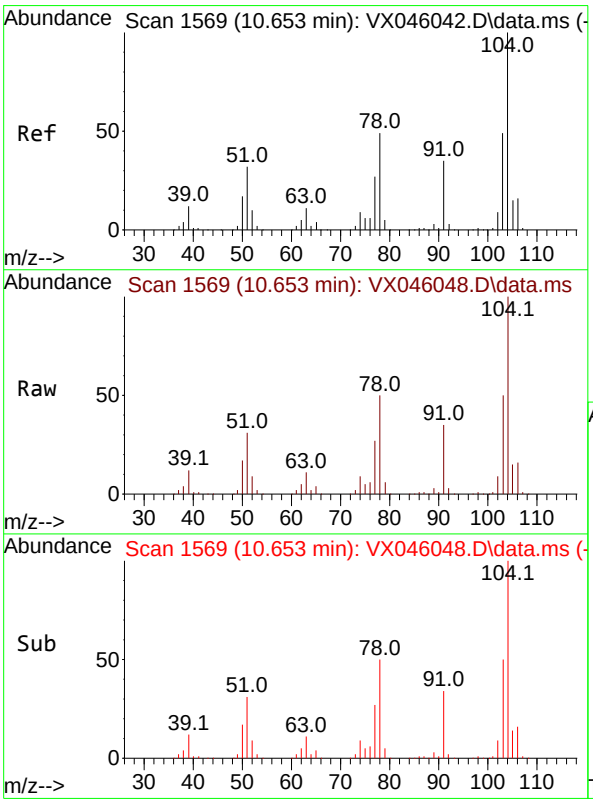
#69
o-Xylene
Concen: 50.841 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Tgt Ion:106 Resp: 101469

Ion	Ratio	Lower	Upper
106	100		
91	227.7	112.7	338.1

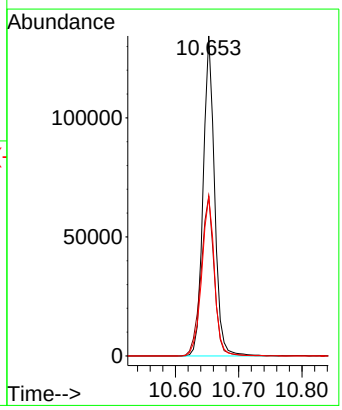


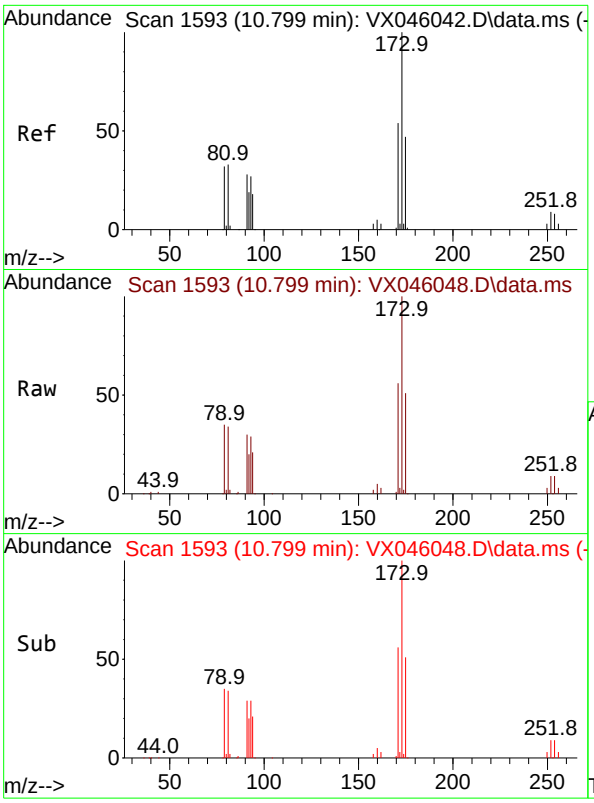


#70
Styrene
Concen: 51.907 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion:104 Resp: 169703

Ion	Ratio	Lower	Upper
104	100		
78	57.6	45.7	68.5
103	55.5	43.7	65.5



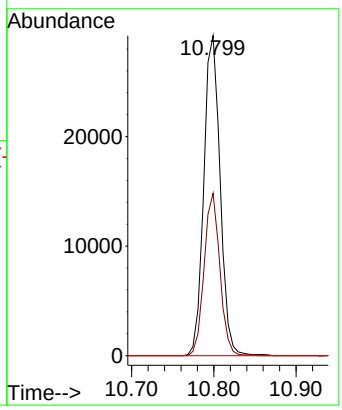


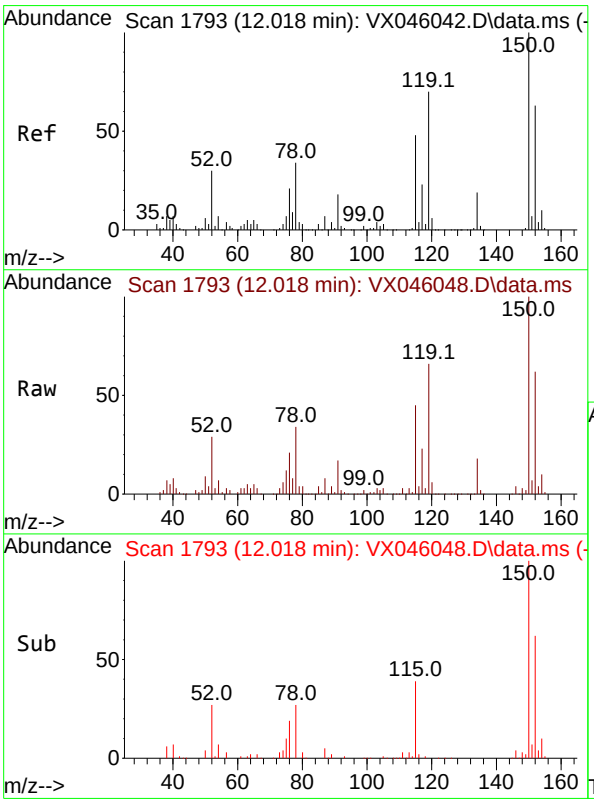
#71
Bromoform
Concen: 49.583 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Tgt Ion:173 Resp: 40364

Ion	Ratio	Lower	Upper
173	100		
175	48.8	23.4	70.0
254	0.0	0.0	0.0

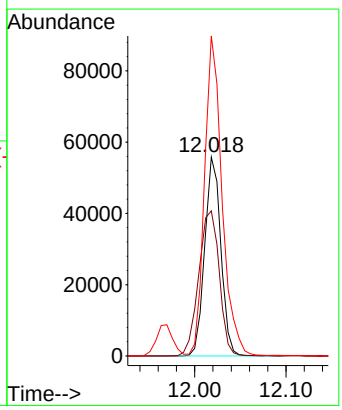


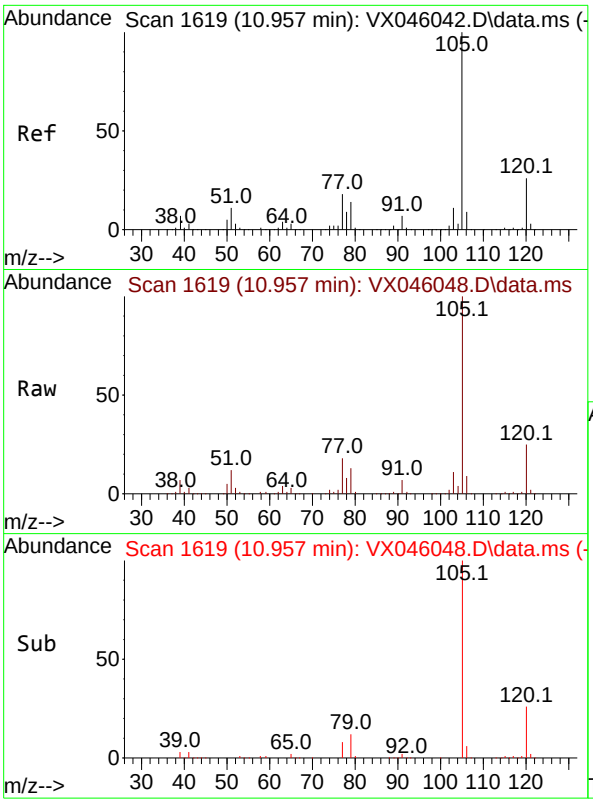


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion:152 Resp: 68229

Ion	Ratio	Lower	Upper
152	100		
115	93.3	46.9	140.7
150	175.3	0.0	351.0



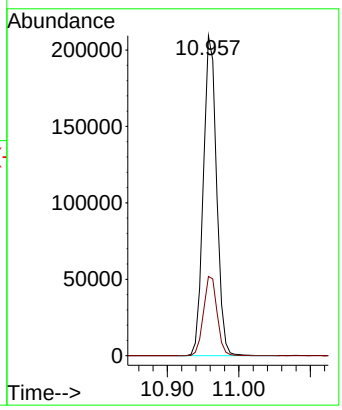


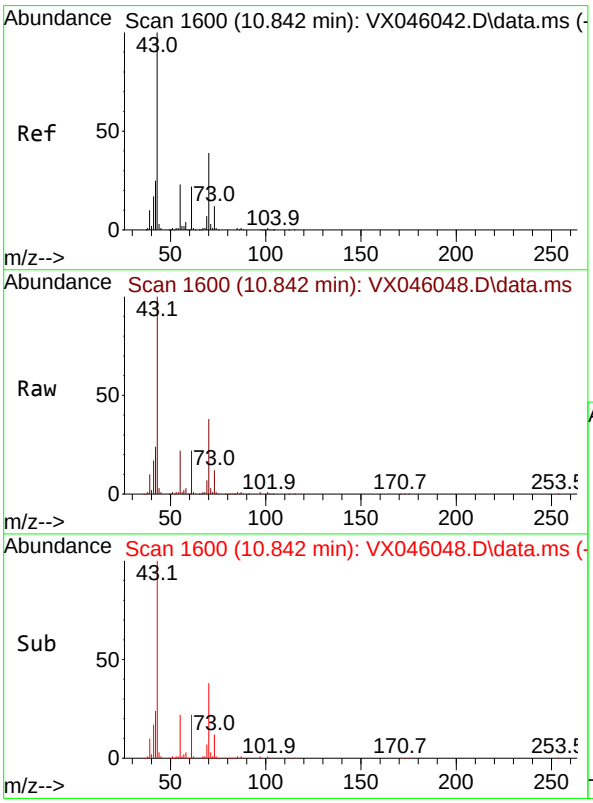
#73
Isopropylbenzene
Concen: 50.733 ug/l
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Tgt Ion:105 Resp: 269484

Ion	Ratio	Lower	Upper
105	100		
120	25.4	12.8	38.4

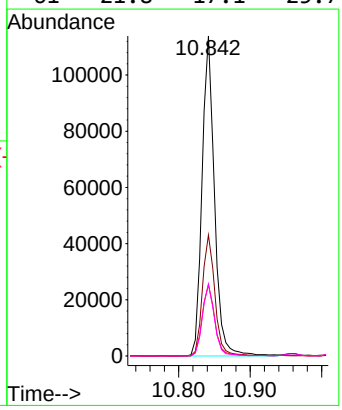


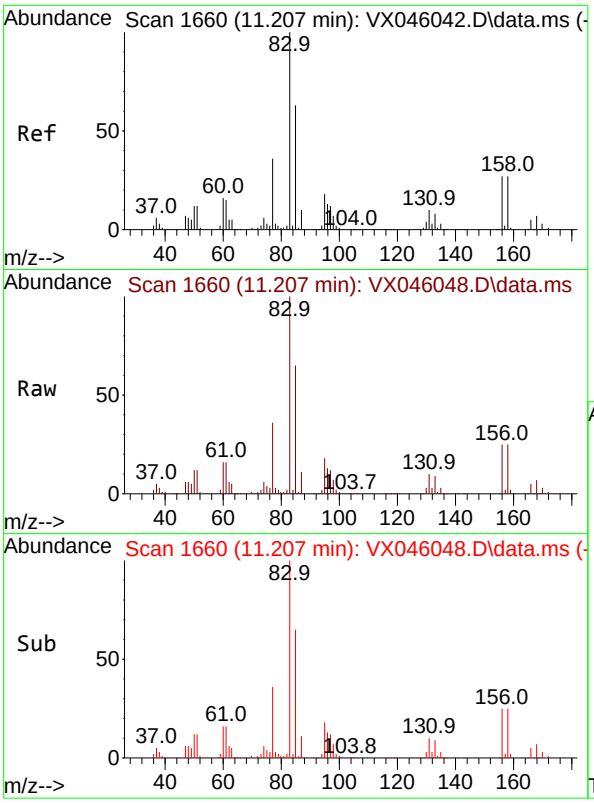


#74
N-amyl acetate
Concen: 52.407 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 43 Resp: 137559

Ion	Ratio	Lower	Upper
43	100		
70	37.9	30.9	46.3
55	22.7	18.7	28.1
61	21.8	17.1	25.7



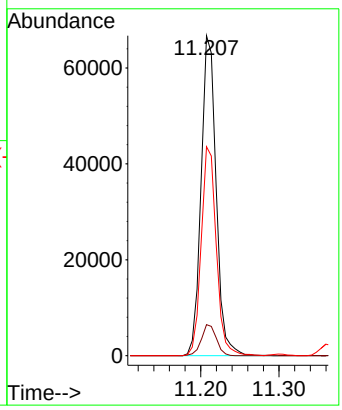


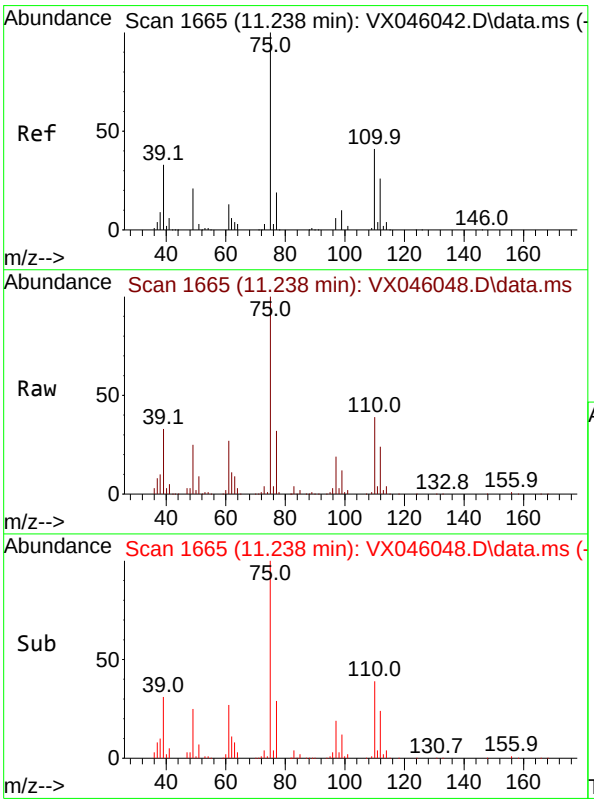
#75
1,1,2,2-Tetrachloroethane
Concen: 47.827 ug/l
RT: 11.207 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Tgt Ion: 83 Resp: 89027

Ion	Ratio	Lower	Upper
83	100		
131	9.7	5.0	14.9
85	65.5	31.9	95.7

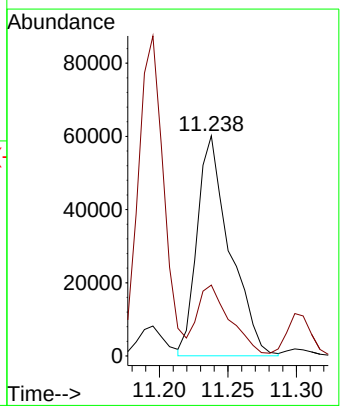


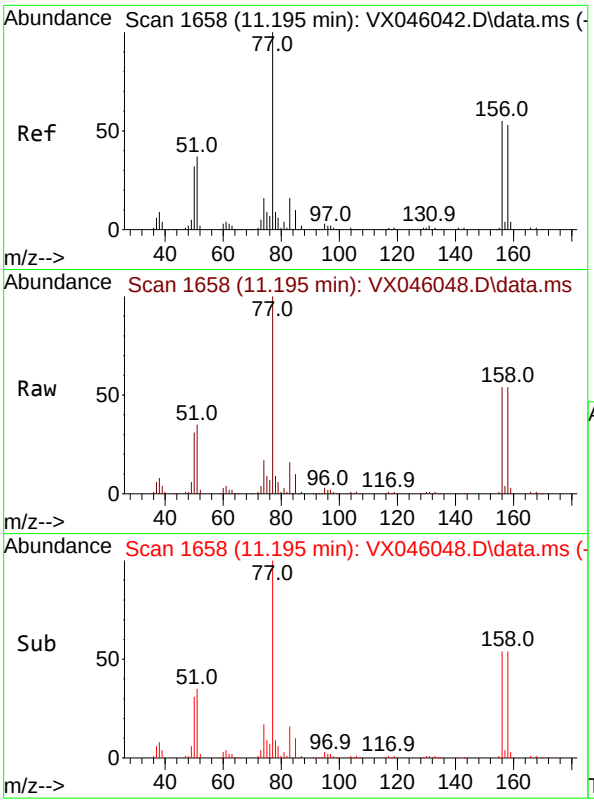


#76
1,2,3-Trichloropropane
Concen: 60.821 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 75 Resp: 99886

Ion	Ratio	Lower	Upper
75	100		
77	32.5	20.5	61.5



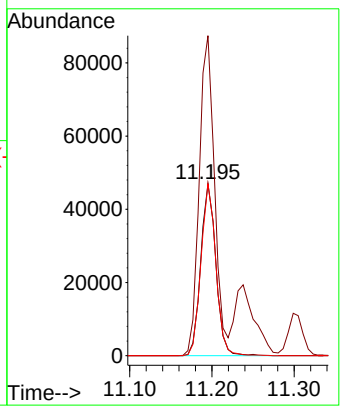


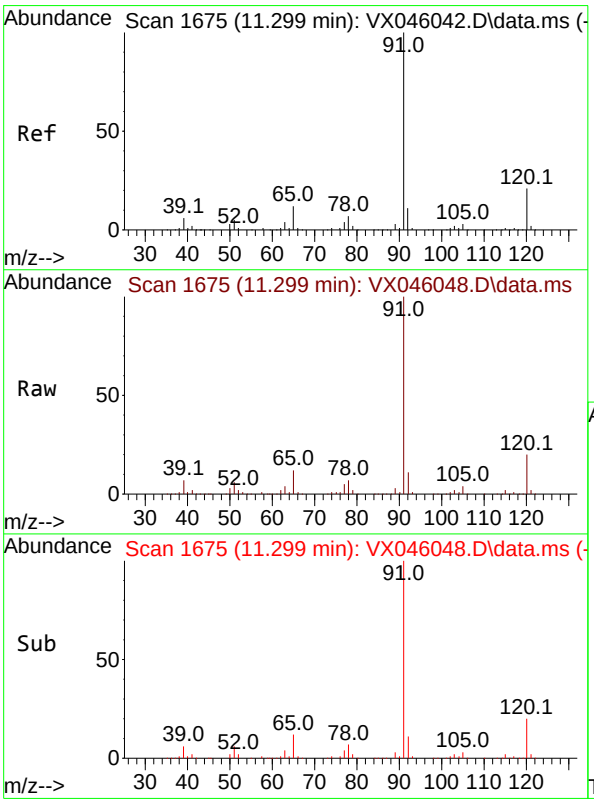
#77
Bromobenzene
Concen: 48.549 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Tgt Ion:156 Resp: 59871

Ion	Ratio	Lower	Upper
156	100		
77	189.0	92.8	278.3
158	98.9	48.8	146.3

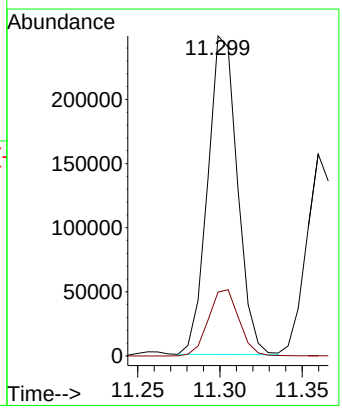


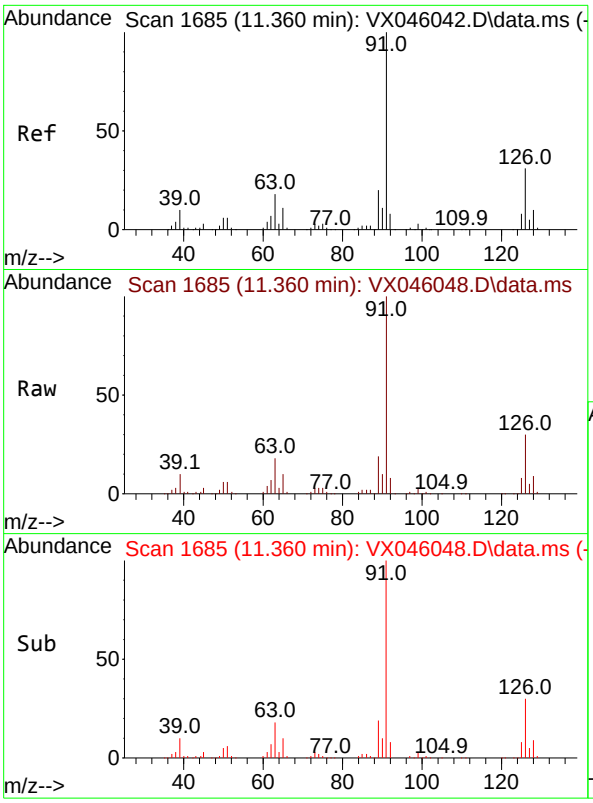


#78
n-propylbenzene
Concen: 50.562 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 91 Resp: 312285

Ion	Ratio	Lower	Upper
91	100		
120	21.4	10.8	32.4



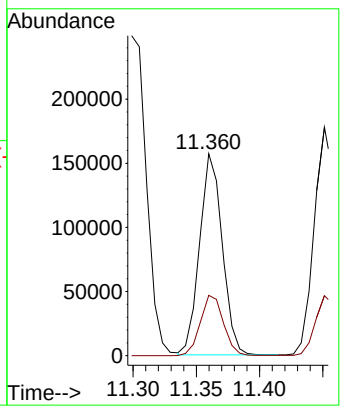


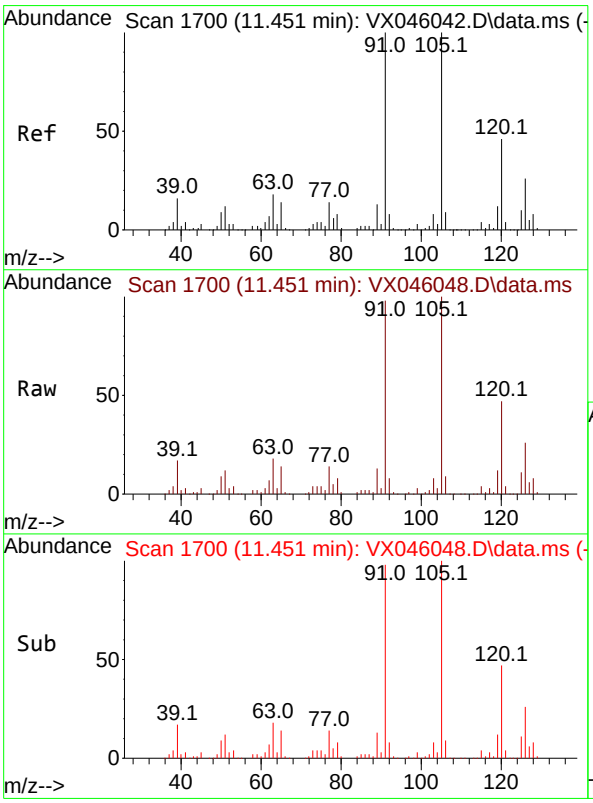
#79
2-Chlorotoluene
Concen: 49.107 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Tgt Ion: 91 Resp: 195630

Ion	Ratio	Lower	Upper
91	100		
126	30.8	15.6	46.7

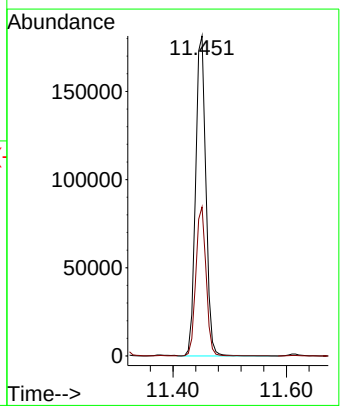


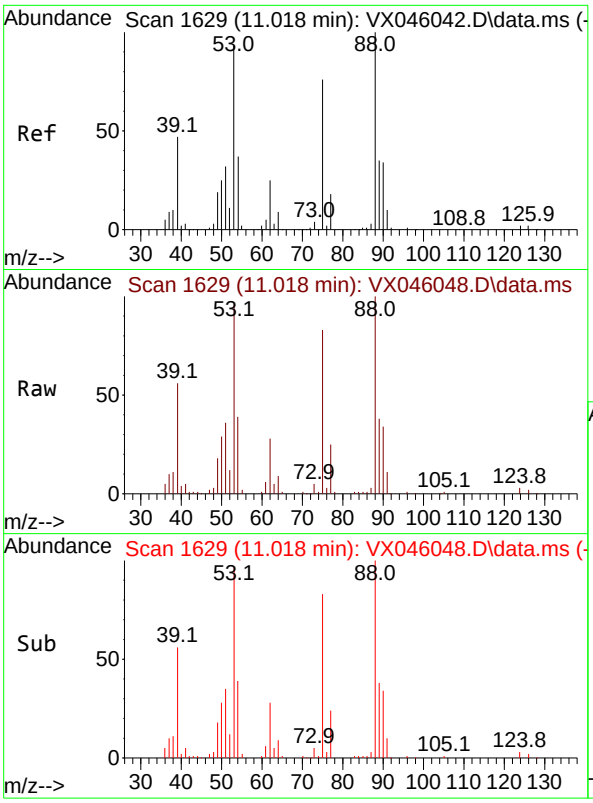


#80
1,3,5-Trimethylbenzene
Concen: 51.500 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion:105 Resp: 228538

Ion	Ratio	Lower	Upper
105	100		
120	46.3	23.1	69.2



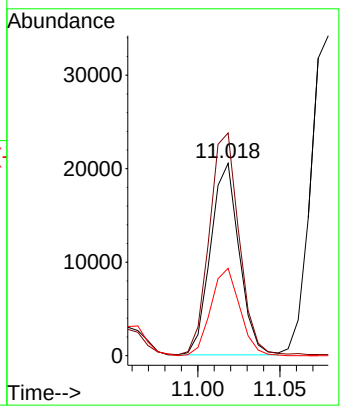


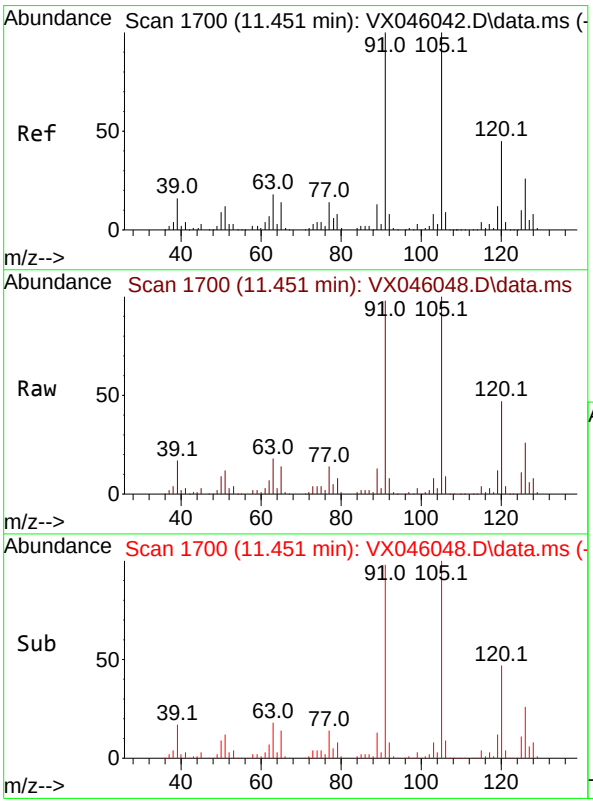
#81
trans-1,4-Dichloro-2-butene
Concen: 49.276 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Tgt Ion: 75 Resp: 24857

Ion	Ratio	Lower	Upper
75	100		
53	122.3	100.5	150.7
89	46.2	37.0	55.6

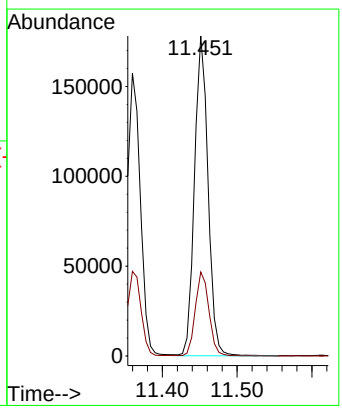


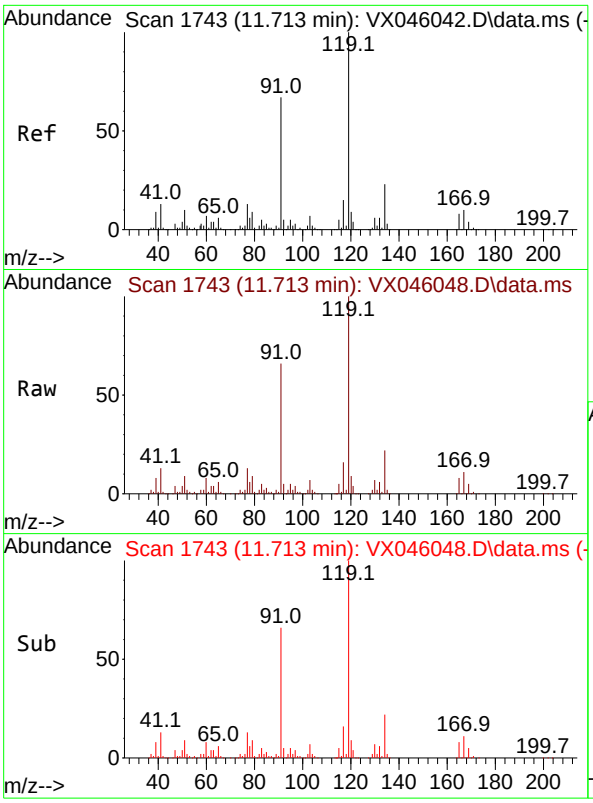


#82
4-Chlorotoluene
Concen: 50.661 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 91 Resp: 223811

Ion	Ratio	Lower	Upper
91	100		
126	26.5	13.3	39.8



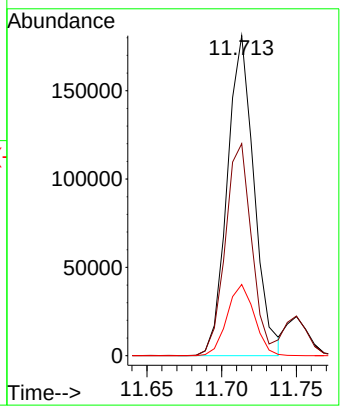


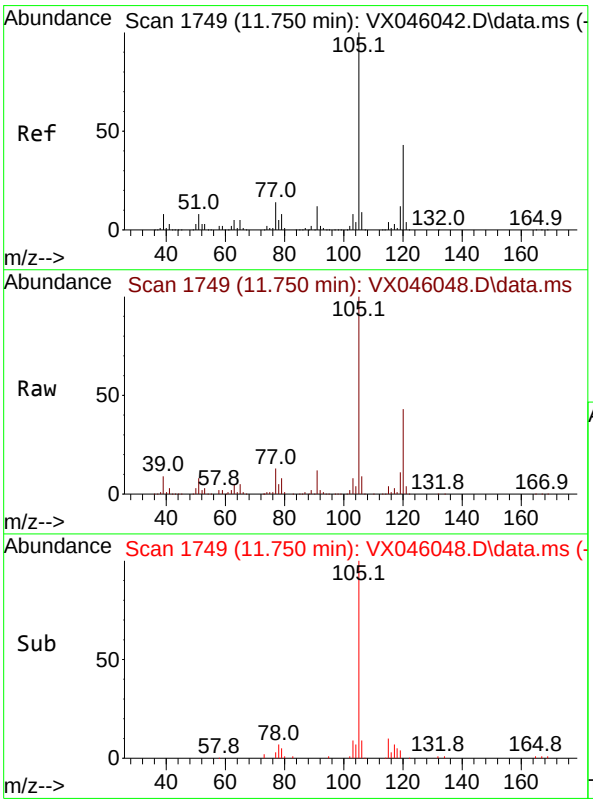
#83
tert-Butylbenzene
Concen: 50.511 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Tgt Ion:119 Resp: 225783

Ion	Ratio	Lower	Upper
119	100		
91	64.9	32.9	98.7
134	22.6	11.4	34.1

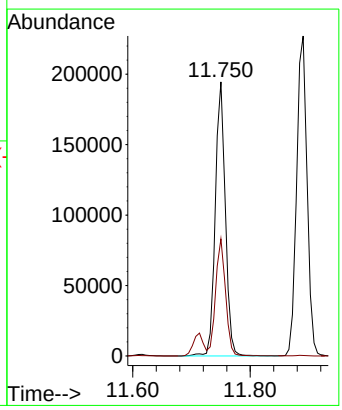


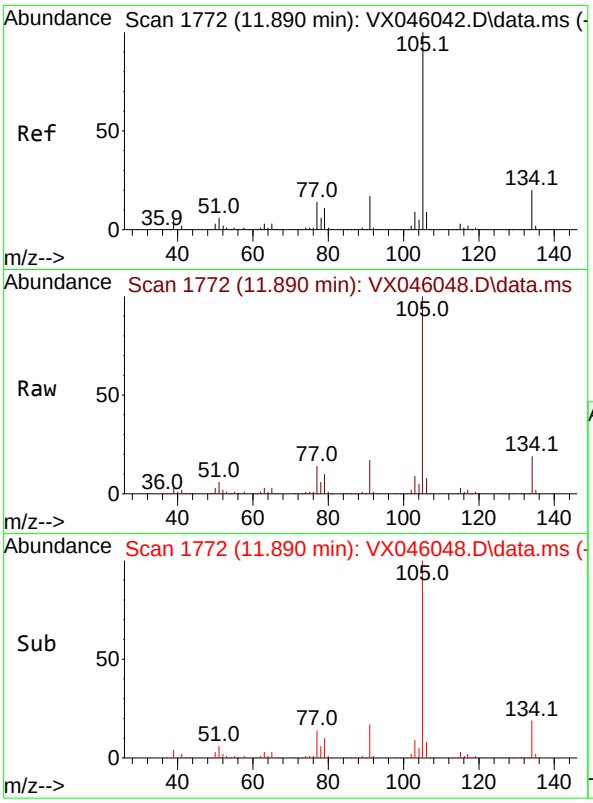


#84
1,2,4-Trimethylbenzene
Concen: 51.485 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion:105 Resp: 231371

Ion	Ratio	Lower	Upper
105	100		
120	42.3	21.2	63.6



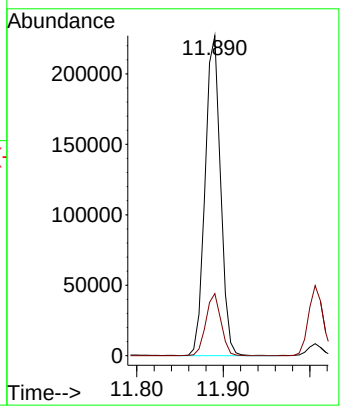


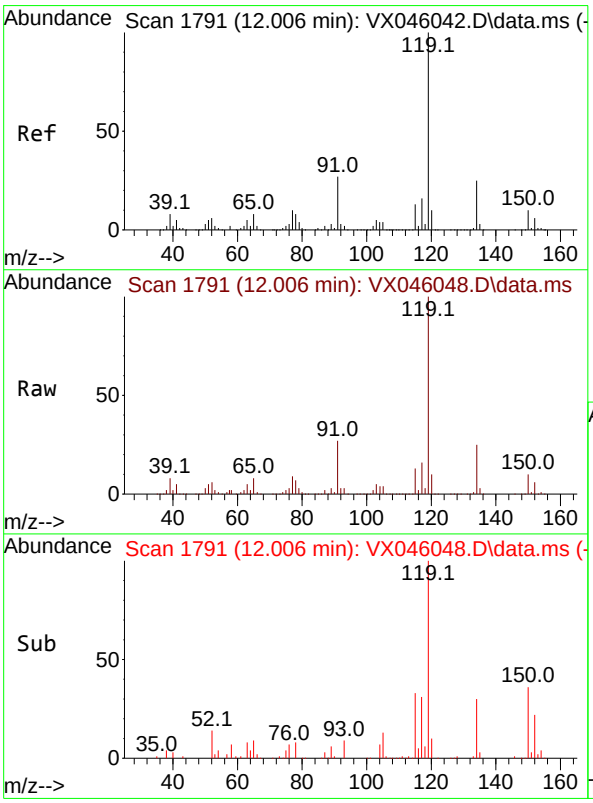
#85
sec-Butylbenzene
Concen: 51.122 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Tgt Ion:105 Resp: 280578

Ion	Ratio	Lower	Upper
105	100		
134	19.1	9.7	29.1

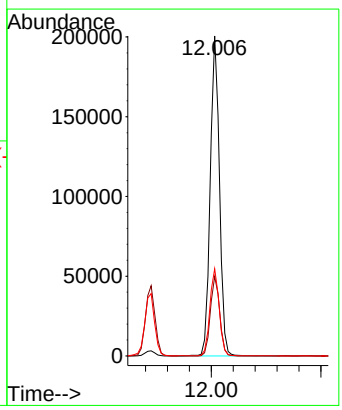


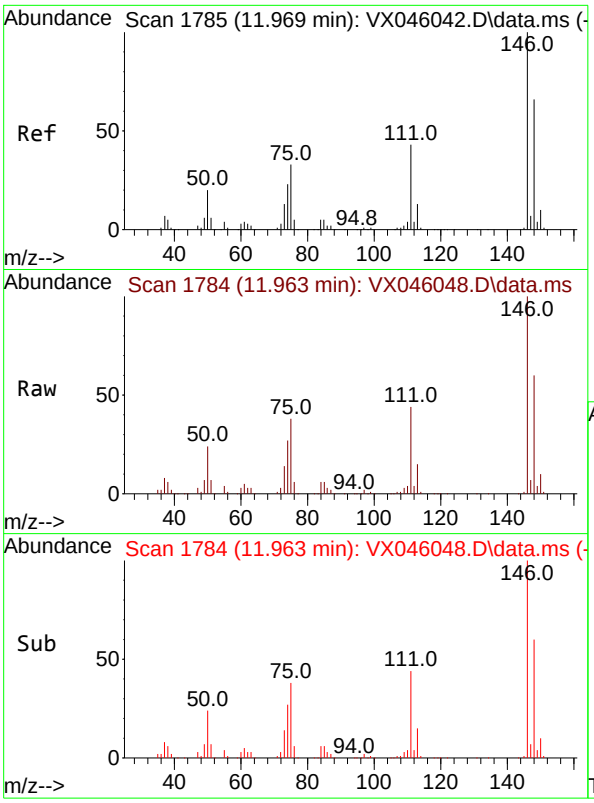


#86
p-Isopropyltoluene
Concen: 51.198 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion:119 Resp: 231942

Ion	Ratio	Lower	Upper
119	100		
134	25.0	12.5	37.5
91	27.5	13.8	41.4



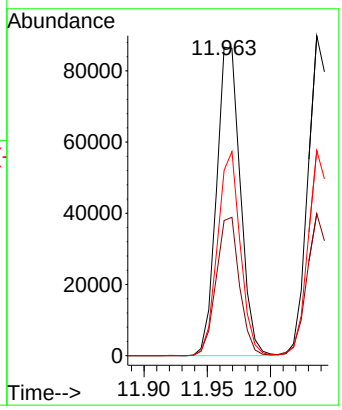


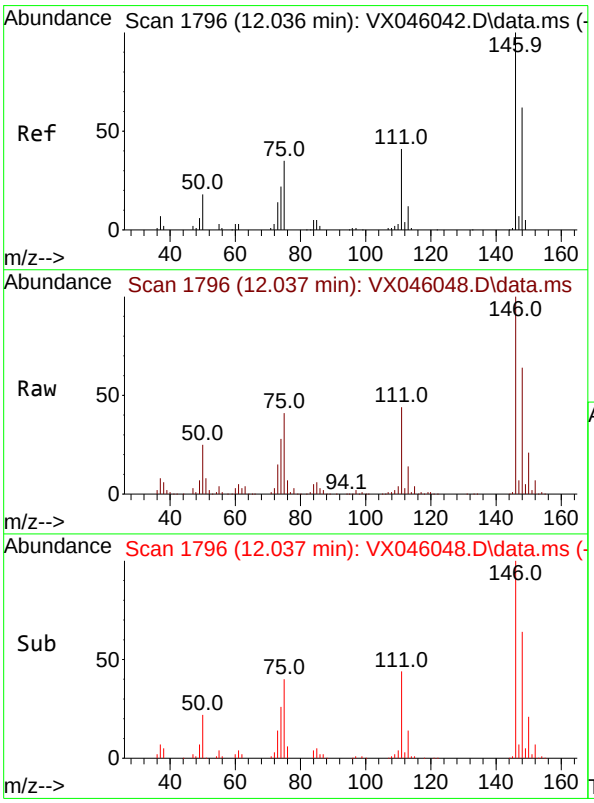
#87
1,3-Dichlorobenzene
Concen: 50.272 ug/l
RT: 11.963 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Tgt Ion:146 Resp: 113146

Ion	Ratio	Lower	Upper
146	100		
111	44.1	22.1	66.3
148	63.5	32.1	96.5

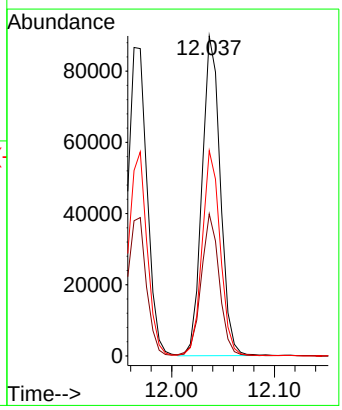


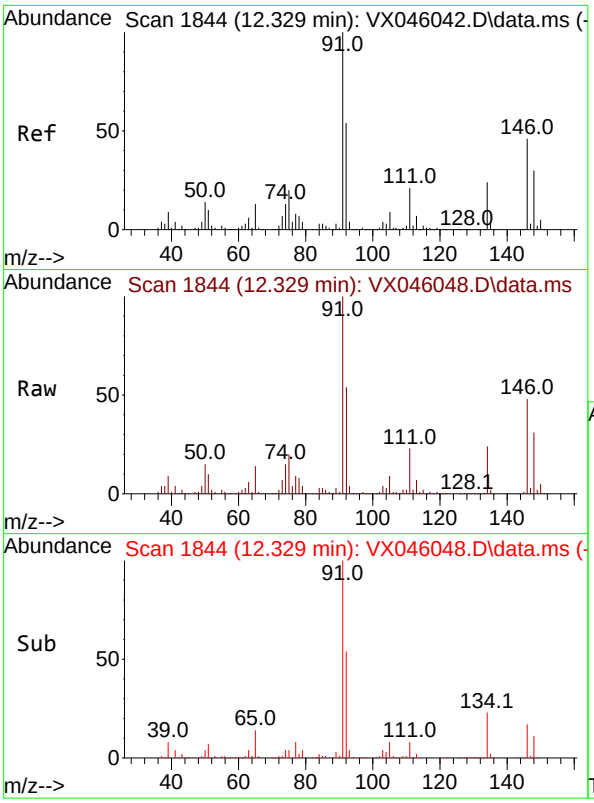


#88
1,4-Dichlorobenzene
Concen: 48.368 ug/l
RT: 12.037 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion:146 Resp: 111173

Ion	Ratio	Lower	Upper
146	100		
111	43.9	21.3	63.9
148	63.3	31.9	95.5



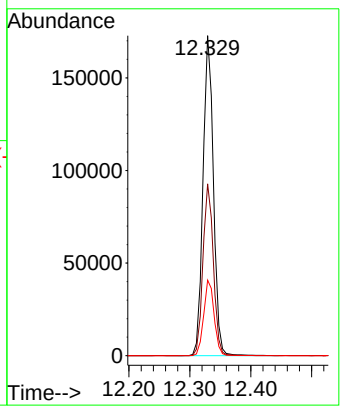


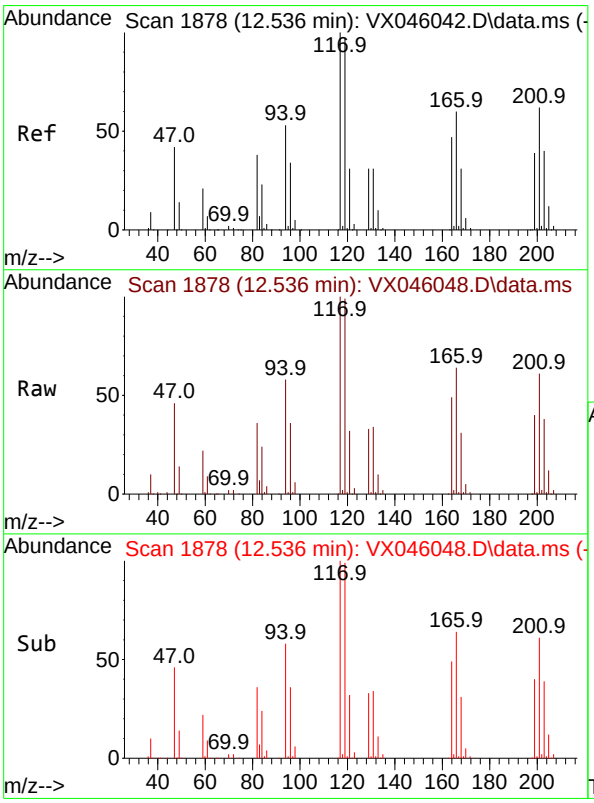
#89
n-Butylbenzene
Concen: 51.804 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Tgt Ion: 91 Resp: 205858

Ion	Ratio	Lower	Upper
91	100		
92	53.7	26.9	80.7
134	23.7	11.8	35.3

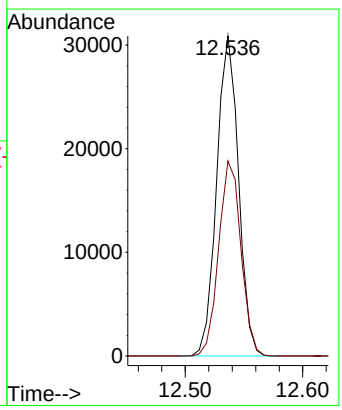


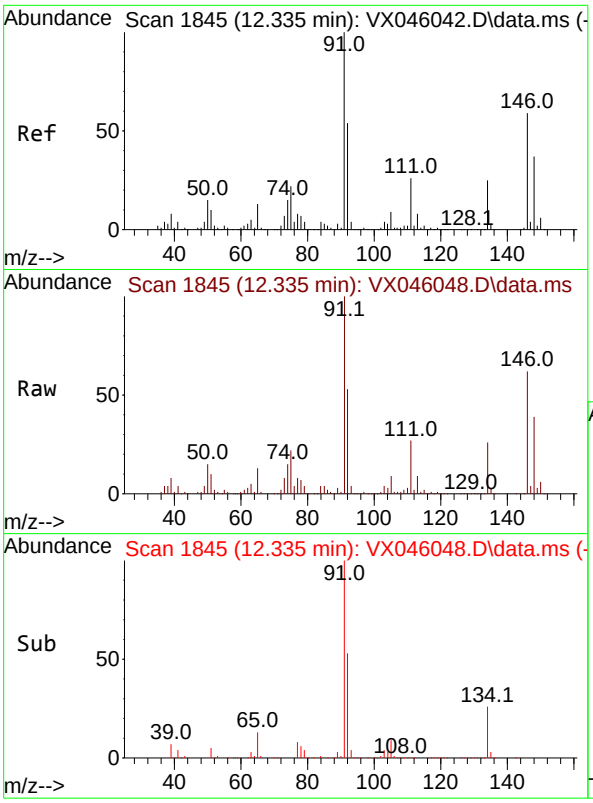


#90
Hexachloroethane
Concen: 49.895 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion:117 Resp: 39823

Ion	Ratio	Lower	Upper
117	100		
201	62.4	31.6	94.7



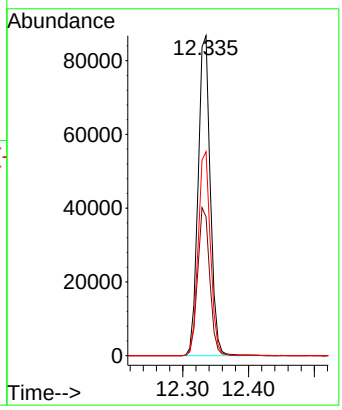


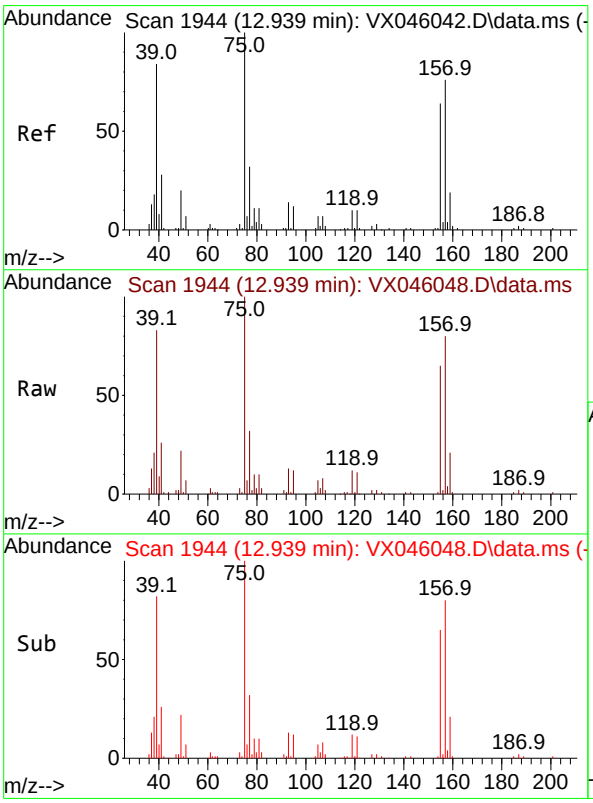
#91
1,2-Dichlorobenzene
Concen: 49.361 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Tgt Ion:146 Resp: 111482

Ion	Ratio	Lower	Upper
146	100		
111	45.8	22.4	67.3
148	64.2	31.6	94.8

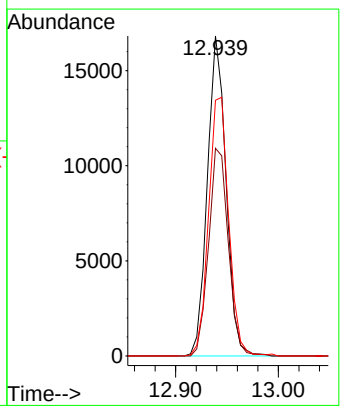


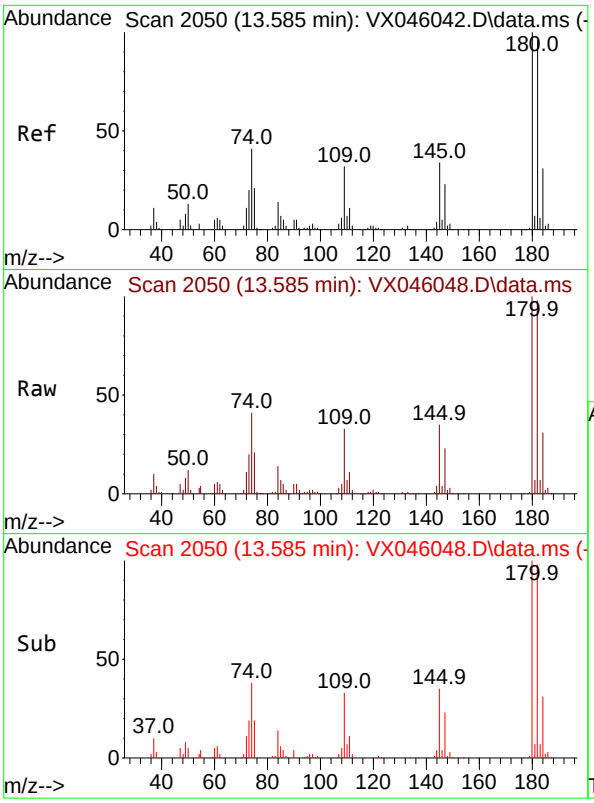


#92
1,2-Dibromo-3-Chloropropane
Concen: 51.458 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion: 75 Resp: 21220

Ion	Ratio	Lower	Upper
75	100		
155	68.6	34.9	104.8
157	86.7	43.8	131.4



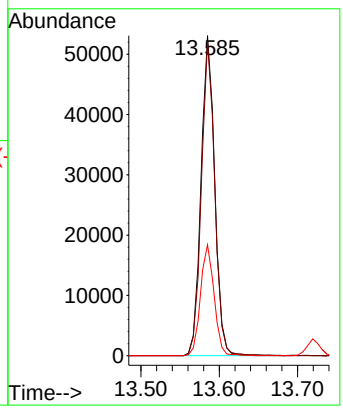


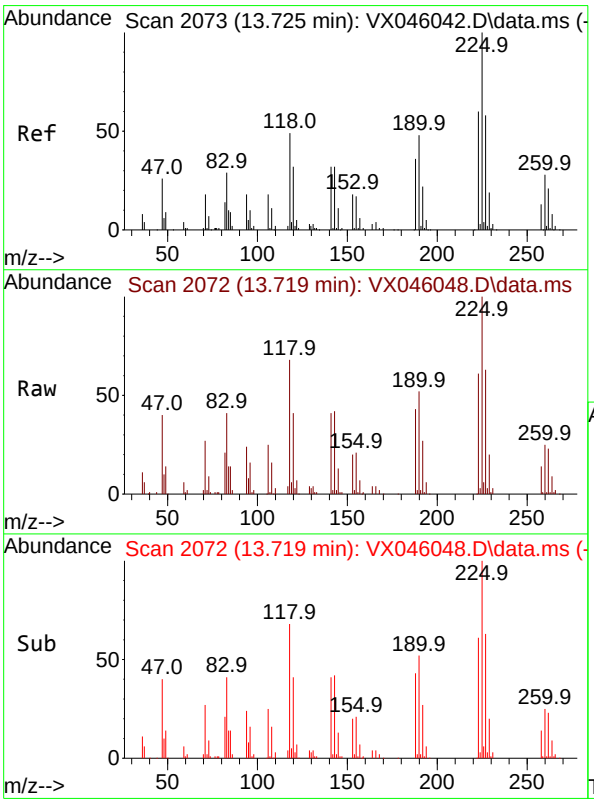
#93
1,2,4-Trichlorobenzene
Concen: 49.662 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Tgt Ion:180 Resp: 64421

Ion	Ratio	Lower	Upper
180	100		
182	95.5	47.9	143.8
145	34.4	17.1	51.2

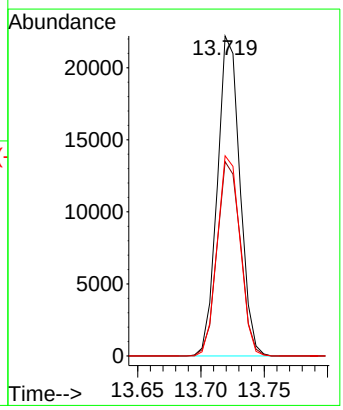


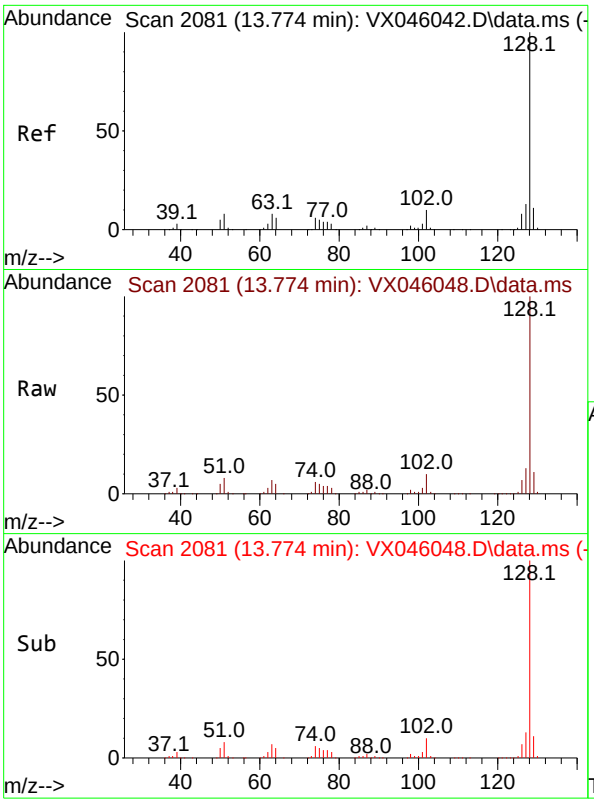


#94
Hexachlorobutadiene
Concen: 48.408 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. -0.006 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion:225 Resp: 27425

Ion	Ratio	Lower	Upper
225	100		
223	63.1	30.8	92.4
227	63.7	30.9	92.7



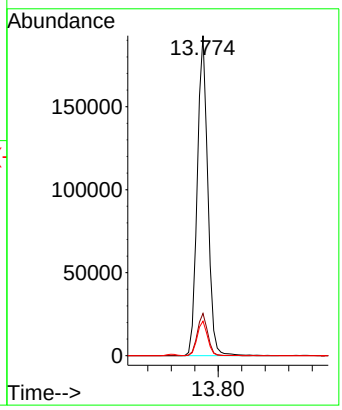


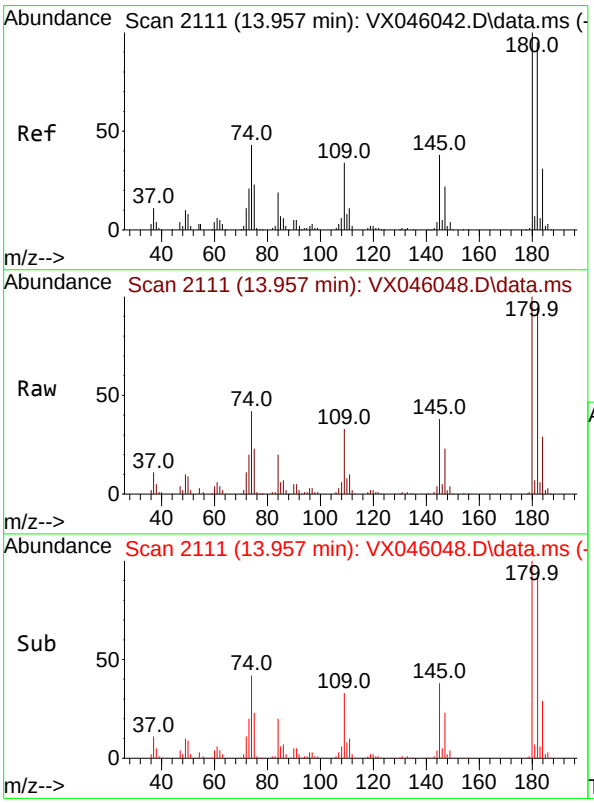
#95
Naphthalene
Concen: 50.404 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Instrument :
MSVOA_X
ClientSampleId :
ICVVX050525

Tgt Ion:128 Resp: 239805

Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.4	15.6
129	10.7	8.6	13.0

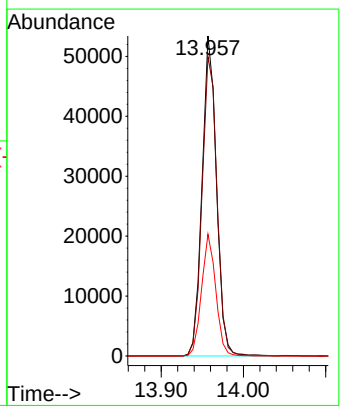




#96
1,2,3-Trichlorobenzene
Concen: 48.525 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX046048.D
Acq: 05 May 2025 16:50

Tgt Ion:180 Resp: 64950

Ion	Ratio	Lower	Upper
180	100		
182	97.0	47.8	143.3
145	37.5	18.1	54.3



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046331.D
Acq On : 23 May 2025 09:24
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: May 23 22:55:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	89943	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	154938	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	137123	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	66629	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	86863	51.802	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 103.600%			
35) Dibromofluoromethane	5.379	113	59429	53.265	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 106.540%			
50) Toluene-d8	8.647	98	202439	52.423	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 104.840%			
62) 4-Bromofluorobenzene	11.079	95	79568	53.716	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 107.440%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	64545	46.886	ug/l	97
3) Chloromethane	1.306	50	58836	44.072	ug/l	99
4) Vinyl Chloride	1.374	62	53273	42.877	ug/l	98
5) Bromomethane	1.599	94	25935	45.004	ug/l	95
6) Chloroethane	1.672	64	33980	51.230	ug/l	99
7) Trichlorofluoromethane	1.880	101	89339	48.653	ug/l	98
8) Diethyl Ether	2.130	74	30446	48.706	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.318	101	55612	48.939	ug/l	98
10) Methyl Iodide	2.447	142	61527	45.758	ug/l	99
11) Tert butyl alcohol	2.965	59	64532	274.166	ug/l	99
12) 1,1-Dichloroethene	2.312	96	49469	46.384	ug/l	97
13) Acrolein	2.233	56	71978	268.519	ug/l	98
14) Allyl chloride	2.660	41	105111	51.568	ug/l	97
15) Acrylonitrile	3.062	53	181852	270.194	ug/l	98
16) Acetone	2.379	43	176899	263.114	ug/l	100
17) Carbon Disulfide	2.507	76	105198	41.606	ug/l	99
18) Methyl Acetate	2.703	43	98895	63.388	ug/l	99
19) Methyl tert-butyl Ether	3.111	73	197614	52.851	ug/l	99
20) Methylene Chloride	2.782	84	59651	46.299	ug/l	96
21) trans-1,2-Dichloroethene	3.087	96	50409	47.000	ug/l	92
22) Diisopropyl ether	3.757	45	207508	52.704	ug/l	98
23) Vinyl Acetate	3.715	43	910937	263.054	ug/l	99
24) 1,1-Dichloroethane	3.605	63	111459	50.826	ug/l	99
25) 2-Butanone	4.550	43	266316	272.843	ug/l	99
26) 2,2-Dichloropropane	4.471	77	89521	52.155	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	63472	49.159	ug/l	99
28) Bromochloromethane	4.891	49	54142	51.292	ug/l	100
29) Tetrahydrofuran	5.001	42	166716	272.575	ug/l	98
30) Chloroform	5.086	83	115698	50.618	ug/l	91
31) Cyclohexane	5.464	56	92255	46.166	ug/l	97
32) 1,1,1-Trichloroethane	5.379	97	101459	51.206	ug/l	99
36) 1,1-Dichloropropene	5.684	75	72479	48.349	ug/l	100
37) Ethyl Acetate	4.708	43	97648	52.723	ug/l	99
38) Carbon Tetrachloride	5.672	117	85412	50.709	ug/l	99
39) Methylcyclohexane	7.372	83	92549	47.954	ug/l	96
40) Benzene	6.031	78	220133	50.133	ug/l	99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046331.D
Acq On : 23 May 2025 09:24
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: May 23 22:55:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.916	41	58444	60.322	ug/l		98
42) 1,2-Dichloroethane	6.080	62	97361	51.375	ug/l		100
43) Isopropyl Acetate	6.336	43	158225	55.999	ug/l		99
44) Trichloroethene	7.123	130	53136	50.279	ug/l		99
45) 1,2-Dichloropropane	7.421	63	58016	53.136	ug/l		99
46) Dibromomethane	7.574	93	44309	51.454	ug/l		99
47) Bromodichloromethane	7.818	83	92253	54.392	ug/l		99
48) Methyl methacrylate	7.689	41	82925	57.467	ug/l		99
49) 1,4-Dioxane	7.659	88	28855	1053.147	ug/l		99
51) 4-Methyl-2-Pentanone	8.567	43	524686	279.753	ug/l		99
52) Toluene	8.714	92	136068	50.537	ug/l		99
53) t-1,3-Dichloropropene	8.976	75	84046	55.750	ug/l		99
54) cis-1,3-Dichloropropene	8.360	75	91612	54.982	ug/l		96
55) 1,1,2-Trichloroethane	9.147	97	56661	53.371	ug/l		97
56) Ethyl methacrylate	9.110	69	97493	57.619	ug/l		99
57) 1,3-Dichloropropane	9.305	76	98945	51.895	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.238	63	231542	268.416	ug/l		99
59) 2-Hexanone	9.427	43	395700	285.172	ug/l		100
60) Dibromochloromethane	9.518	129	64591	55.399	ug/l		99
61) 1,2-Dibromoethane	9.604	107	58405	52.931	ug/l		98
64) Tetrachloroethene	9.268	164	48977	50.481	ug/l		96
65) Chlorobenzene	10.073	112	148639	49.525	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.159	131	53302	52.010	ug/l		98
67) Ethyl Benzene	10.189	91	272231	51.457	ug/l		100
68) m/p-Xylenes	10.299	106	197275	101.954	ug/l		98
69) o-Xylene	10.640	106	97901	51.899	ug/l		98
70) Styrene	10.652	104	165627	53.599	ug/l		99
71) Bromoform	10.799	173	42491	55.224	ug/l	#	97
73) Isopropylbenzene	10.957	105	265569	51.196	ug/l		99
74) N-amyl acetate	10.841	43	138648	54.091	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.207	83	91010	50.066	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	103018	64.234	ug/l		86
77) Bromobenzene	11.195	156	59541	49.441	ug/l		100
78) n-propylbenzene	11.299	91	311660	51.673	ug/l		99
79) 2-Chlorotoluene	11.360	91	191122	49.128	ug/l		100
80) 1,3,5-Trimethylbenzene	11.451	105	224812	51.877	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.012	75	27002	54.814	ug/l		97
82) 4-Chlorotoluene	11.451	91	219638	50.910	ug/l		99
83) tert-Butylbenzene	11.713	119	222135	50.888	ug/l		99
84) 1,2,4-Trimethylbenzene	11.750	105	225740	51.438	ug/l		100
85) sec-Butylbenzene	11.890	105	280123	52.265	ug/l		100
86) p-Isopropyltoluene	12.006	119	232168	52.479	ug/l		100
87) 1,3-Dichlorobenzene	11.963	146	109948	50.025	ug/l		99
88) 1,4-Dichlorobenzene	12.036	146	111425	49.641	ug/l		99
89) n-Butylbenzene	12.329	91	210250	54.179	ug/l		99
90) Hexachloroethane	12.536	117	41404	53.122	ug/l		98
91) 1,2-Dichlorobenzene	12.329	146	112487	51.002	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	22183	55.085	ug/l		99
93) 1,2,4-Trichlorobenzene	13.585	180	66261	52.307	ug/l		99
94) Hexachlorobutadiene	13.725	225	29675	53.637	ug/l		99
95) Naphthalene	13.774	128	242188	52.127	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	67021	51.275	ug/l		99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046331.D
Acq On : 23 May 2025 09:24
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: May 23 22:55:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

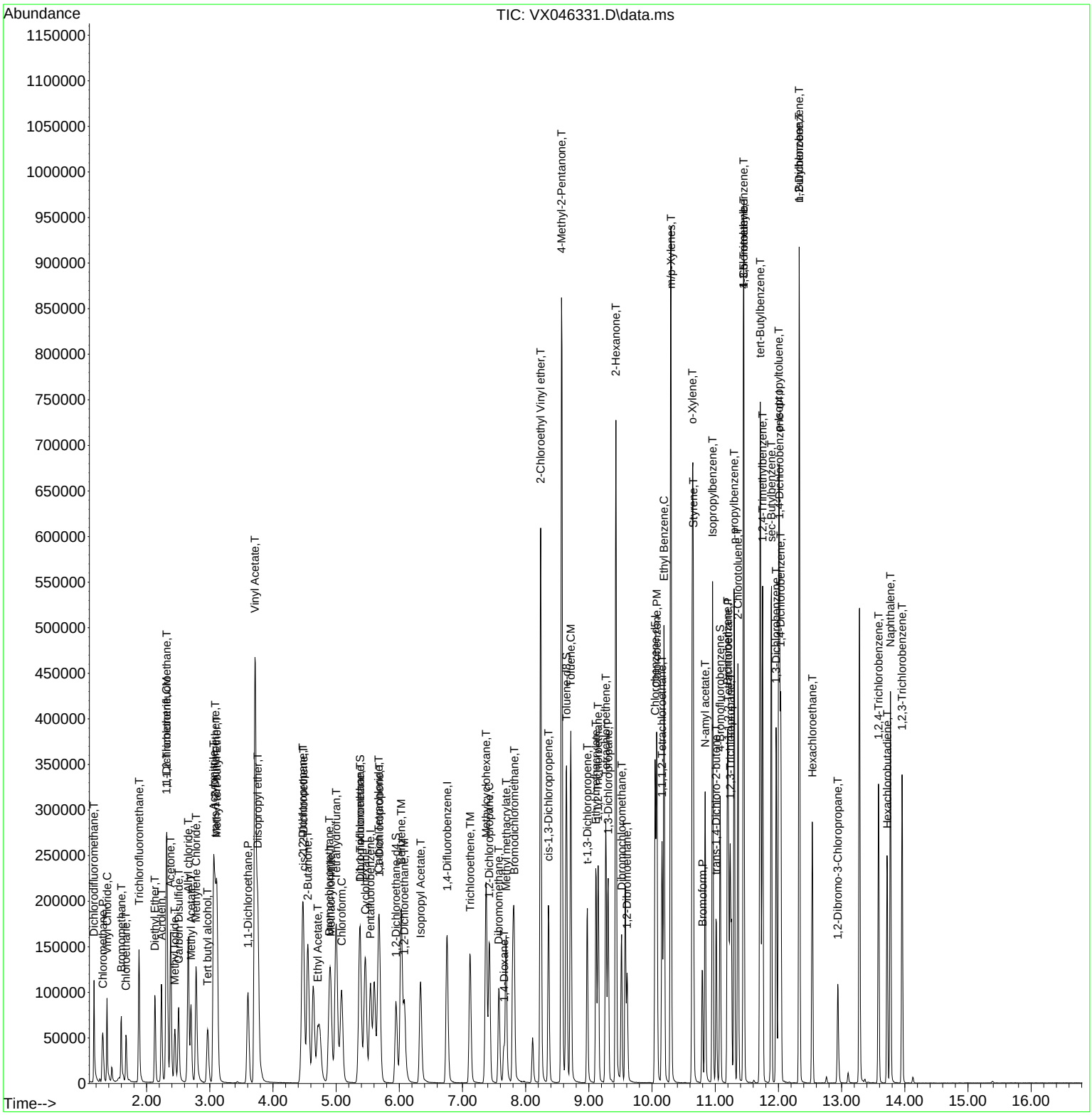
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

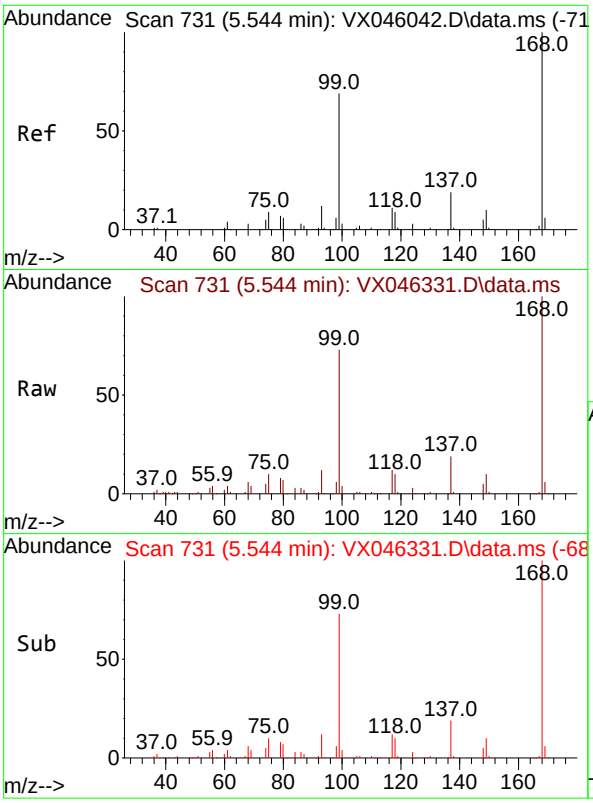
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046331.D
Acq On : 23 May 2025 09:24
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: May 23 22:55:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration



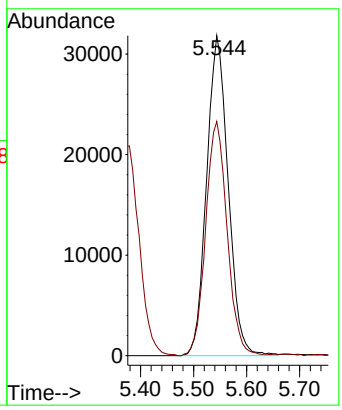


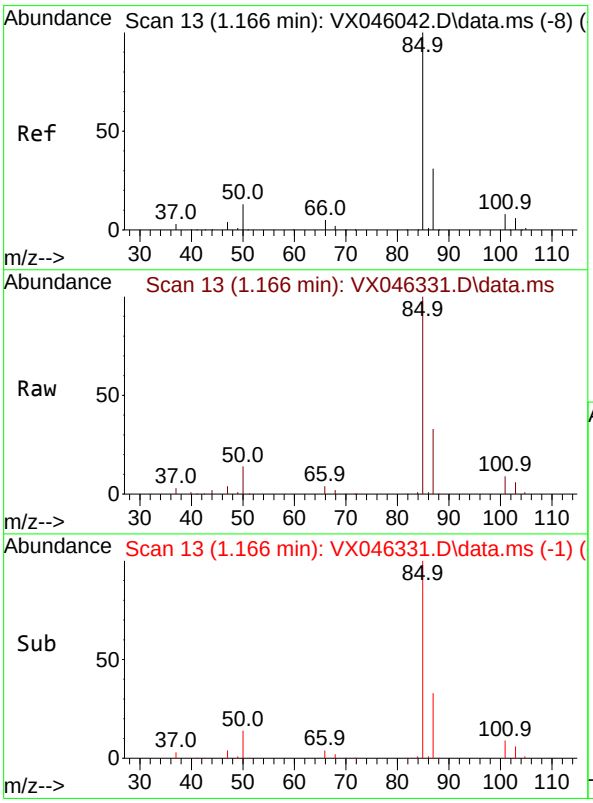
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:168 Resp: 89943

Ion	Ratio	Lower	Upper
168	100		
99	73.2	54.9	82.3

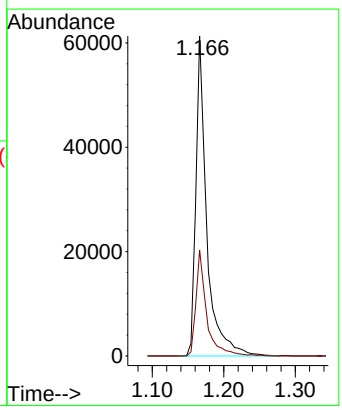


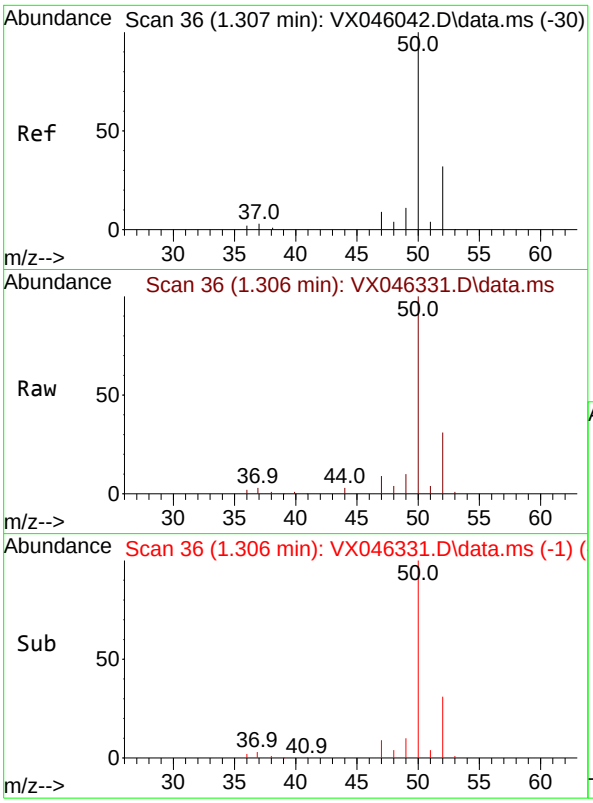


#2
Dichlorodifluoromethane
Concen: 46.886 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 85 Resp: 64545

Ion	Ratio	Lower	Upper
85	100		
87	33.1	15.7	47.1



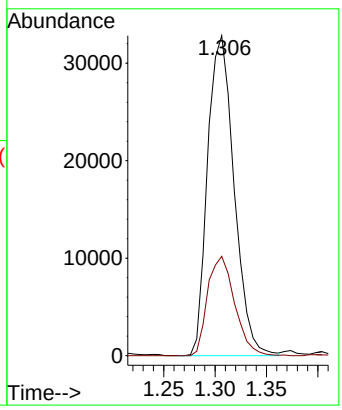


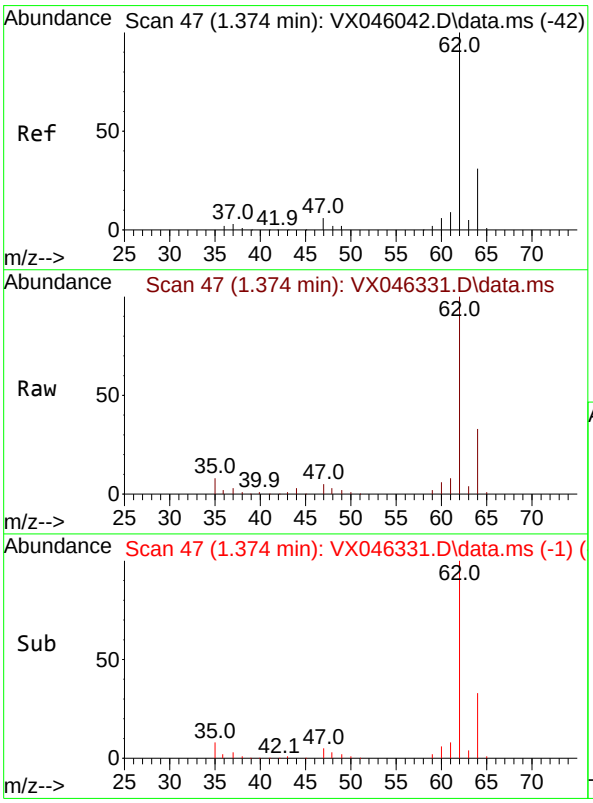
#3
Chloromethane
Concen: 44.072 ug/l
RT: 1.306 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 50 Resp: 58836

Ion	Ratio	Lower	Upper
50	100		
52	31.0	25.4	38.2

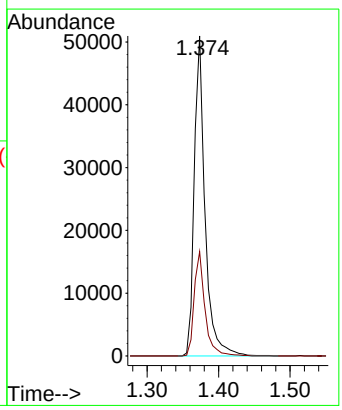


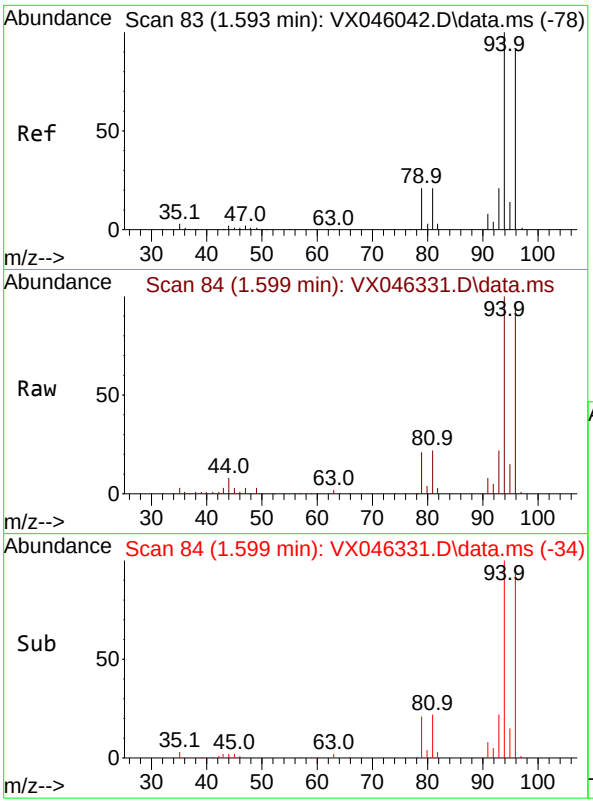


#4
Vinyl Chloride
Concen: 42.877 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 62 Resp: 53273

Ion	Ratio	Lower	Upper
62	100		
64	32.6	25.2	37.8



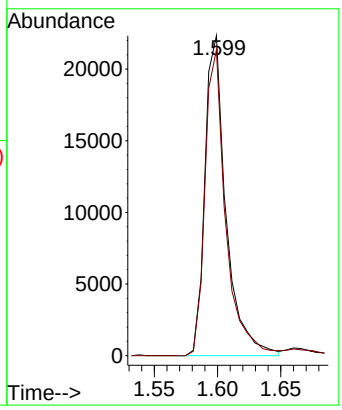


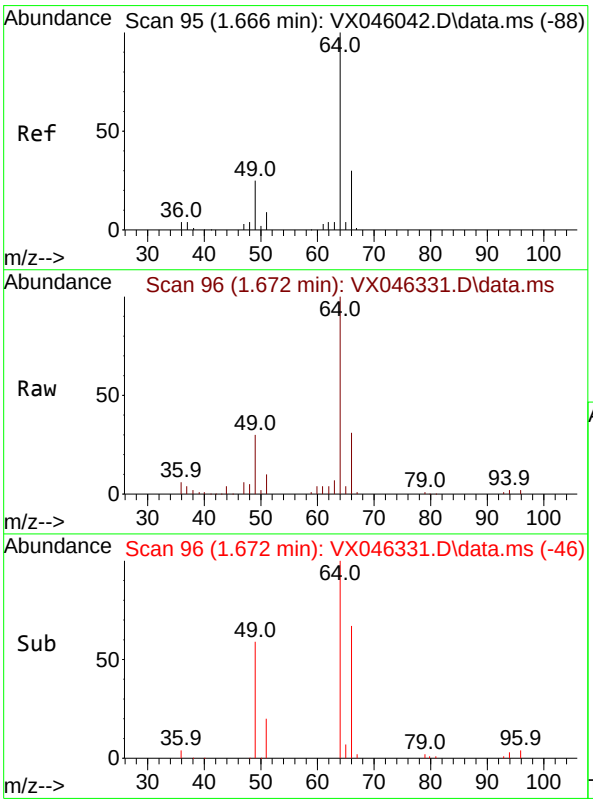
#5
Bromomethane
Concen: 45.004 ug/l
RT: 1.599 min Scan# 84
Delta R.T. 0.006 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 94 Resp: 25935

Ion	Ratio	Lower	Upper
94	100		
96	95.6	72.8	109.2

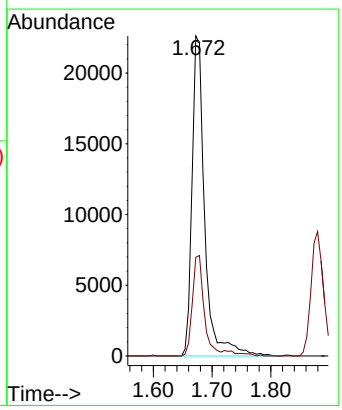


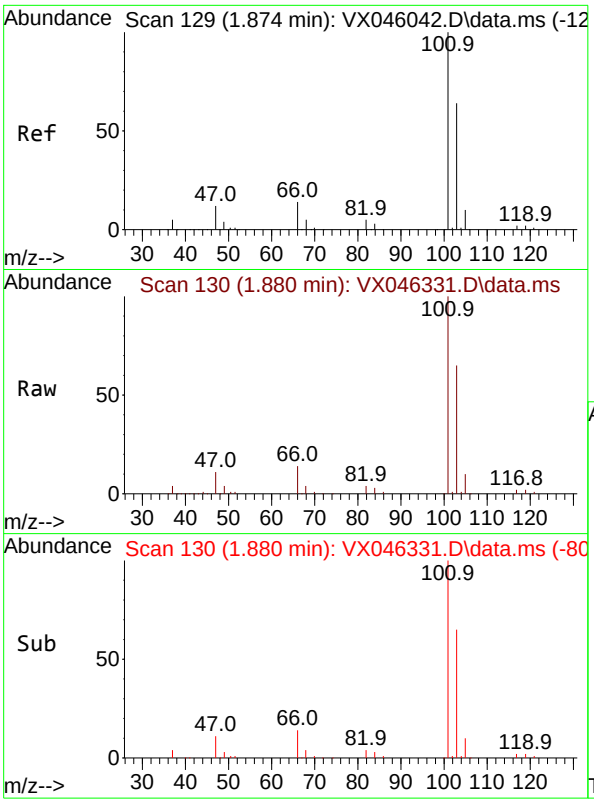


#6
Chloroethane
Concen: 51.230 ug/l
RT: 1.672 min Scan# 96
Delta R.T. 0.006 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 64 Resp: 33980

Ion	Ratio	Lower	Upper
64	100		
66	30.9	24.3	36.5



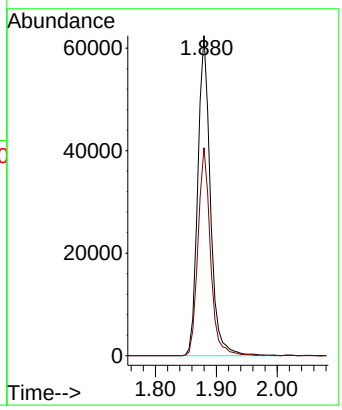


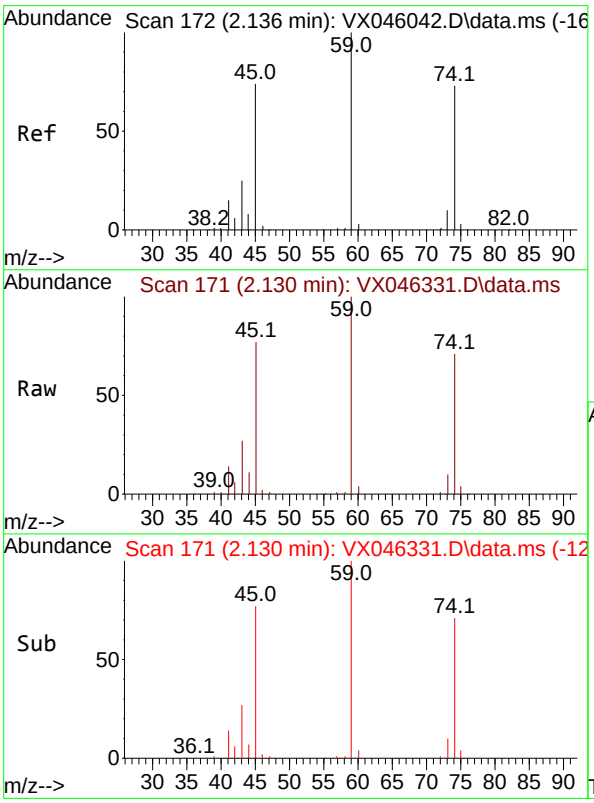
#7
Trichlorofluoromethane
Concen: 48.653 ug/l
RT: 1.880 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 89339

Ion	Ratio	Lower	Upper
101	100		
103	65.0	51.0	76.4

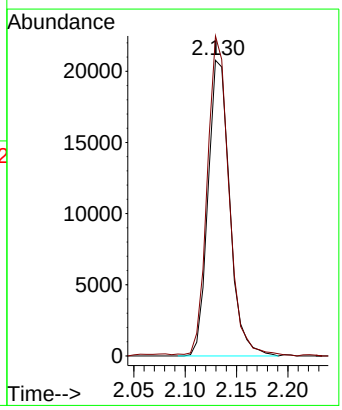


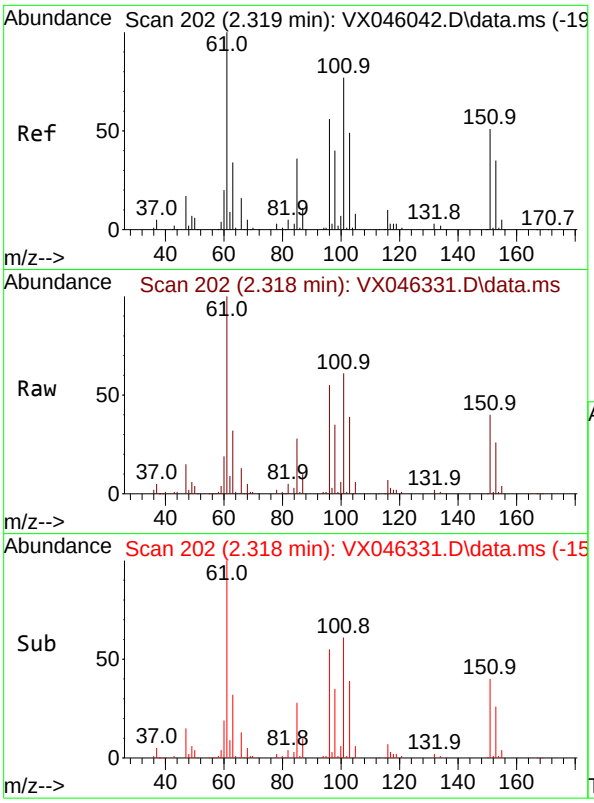


#8
Diethyl Ether
Concen: 48.706 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 74 Resp: 30446

Ion	Ratio	Lower	Upper
74	100		
45	108.6	54.9	164.8



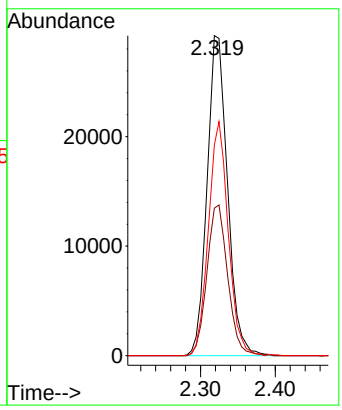


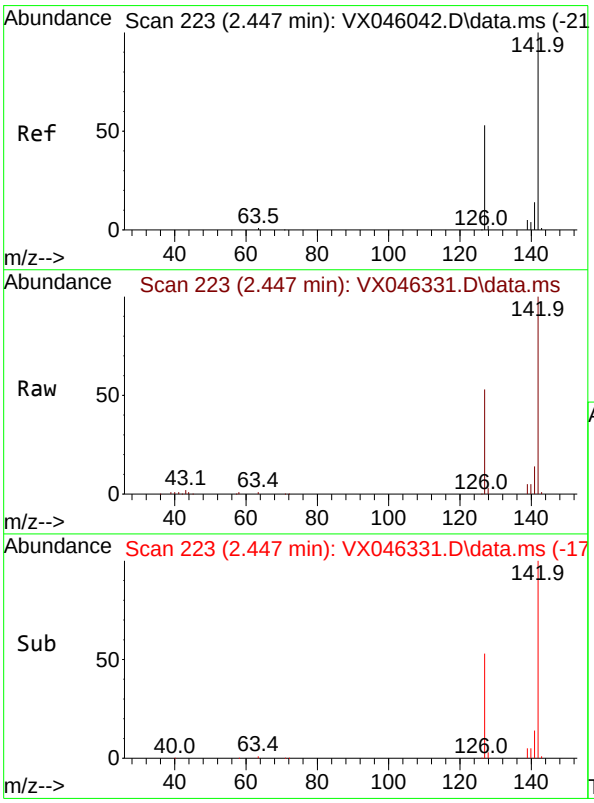
#9
1,1,2-Trichlorotrifluoroethane
Concen: 48.939 ug/l
RT: 2.318 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 55612

Ion	Ratio	Lower	Upper
101	100		
85	48.0	38.6	58.0
151	71.0	55.2	82.8

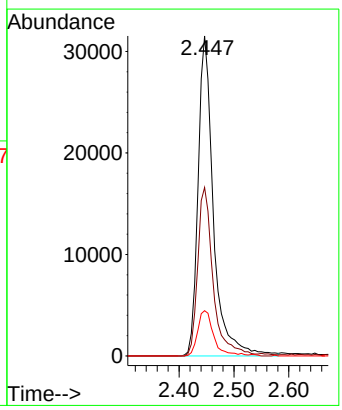


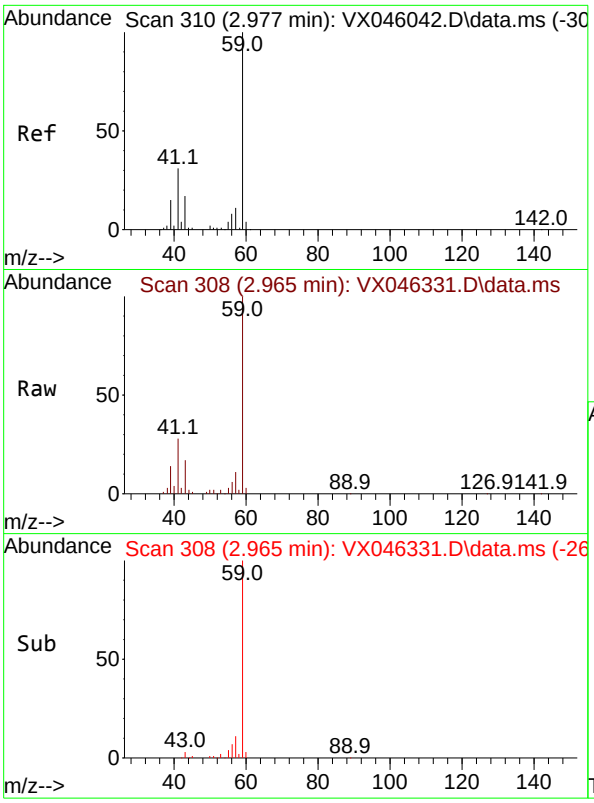


#10
Methyl Iodide
Concen: 45.758 ug/l
RT: 2.447 min Scan# 223
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion:142 Resp: 61527

Ion	Ratio	Lower	Upper
142	100		
127	52.7	41.7	62.5
141	14.7	11.5	17.3



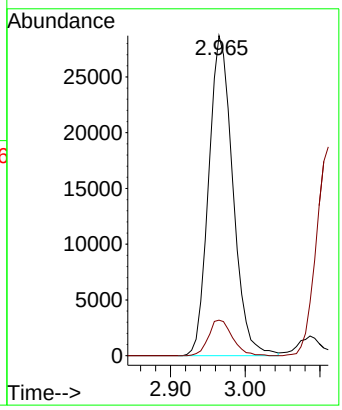


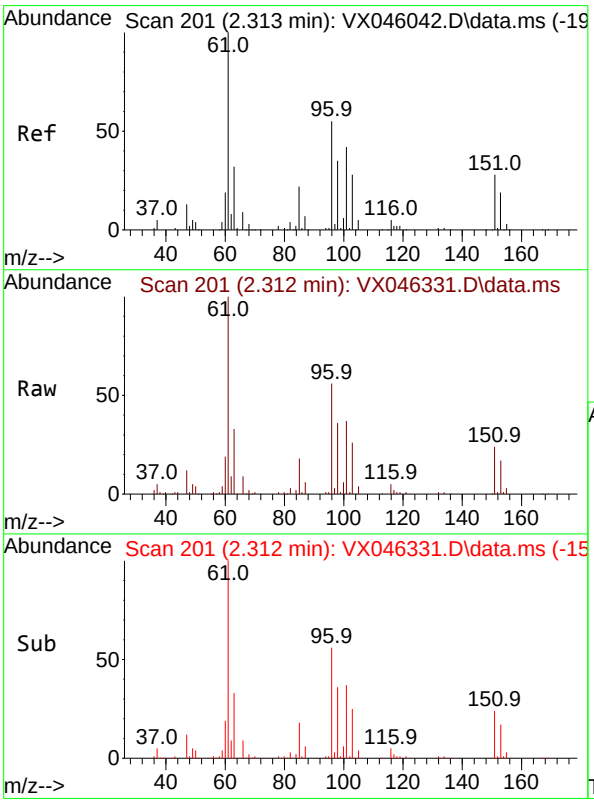
#11
Tert butyl alcohol
Concen: 274.166 ug/l
RT: 2.965 min Scan# 3
Delta R.T. -0.012 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 59 Resp: 64532

Ion	Ratio	Lower	Upper
59	100		
57	11.0	8.6	12.8

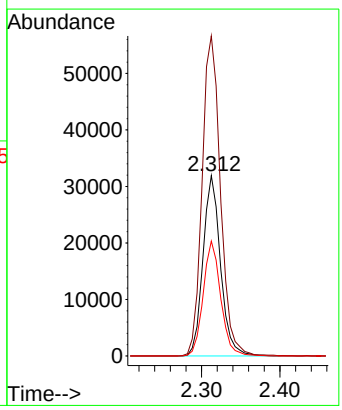


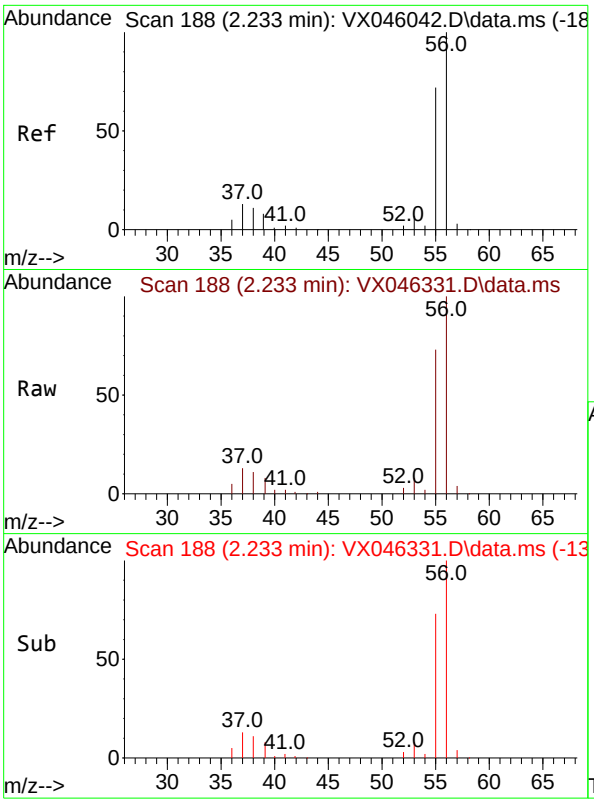


#12
1,1-Dichloroethene
Concen: 46.384 ug/l
RT: 2.312 min Scan# 201
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 96 Resp: 49469

Ion	Ratio	Lower	Upper
96	100		
61	177.5	146.2	219.2
98	63.7	51.0	76.6



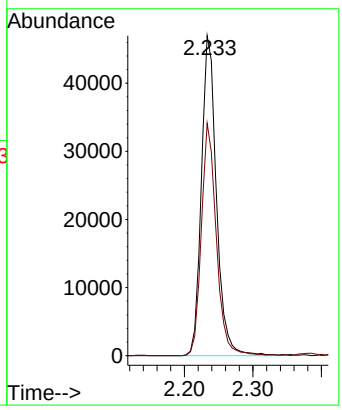


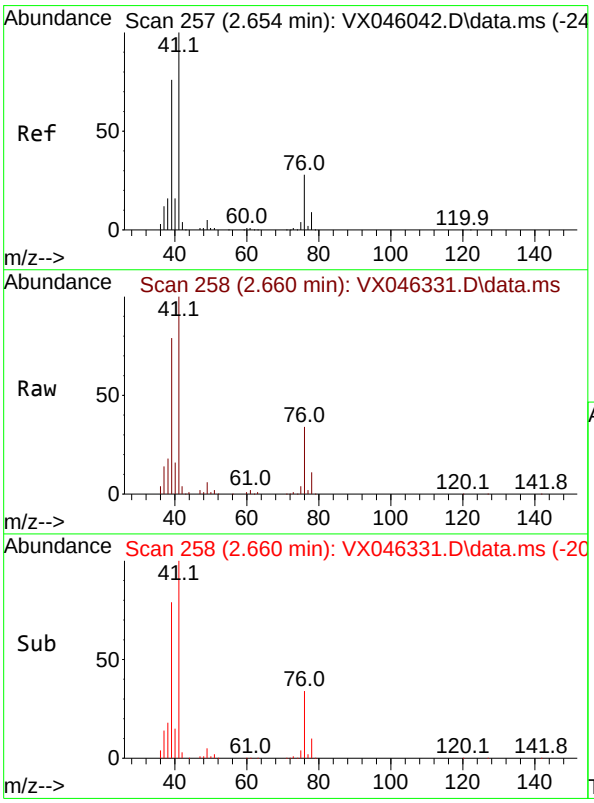
#13
Acrolein
Concen: 268.519 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 56 Resp: 71978

Ion	Ratio	Lower	Upper
56	100		
55	72.3	56.2	84.4

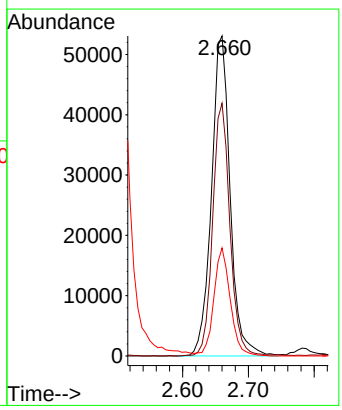


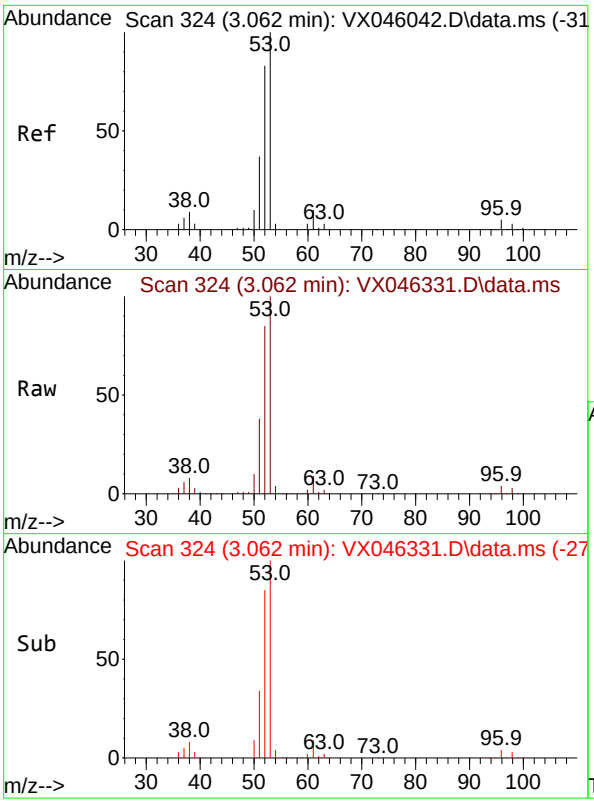


#14
Allyl chloride
Concen: 51.568 ug/l
RT: 2.660 min Scan# 258
Delta R.T. 0.006 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 41 Resp: 105111

Ion	Ratio	Lower	Upper
41	100		
39	72.7	60.6	90.8
76	29.7	24.9	37.3



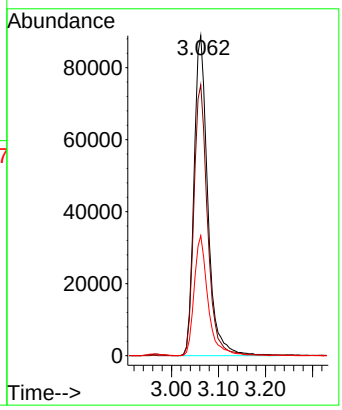


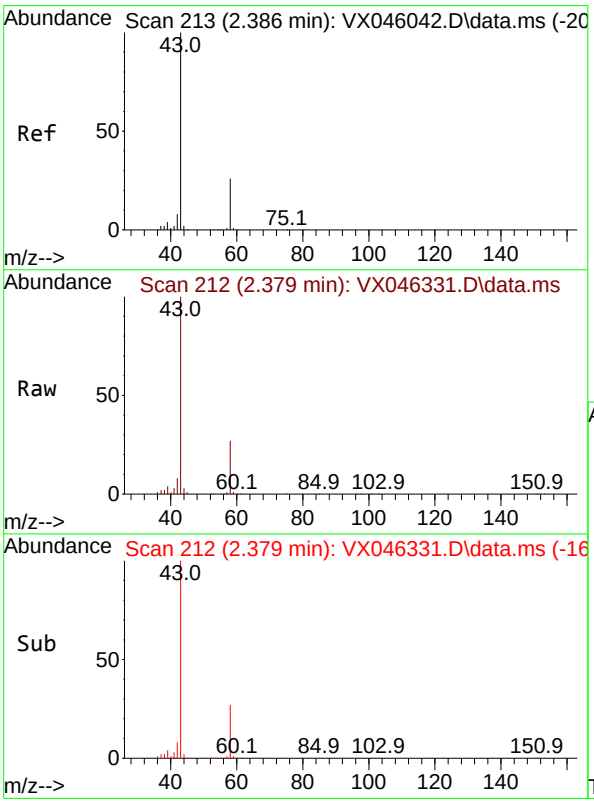
#15
Acrylonitrile
Concen: 270.194 ug/l
RT: 3.062 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 53 Resp: 181852

Ion	Ratio	Lower	Upper
53	100		
52	84.1	65.3	97.9
51	37.3	29.8	44.8

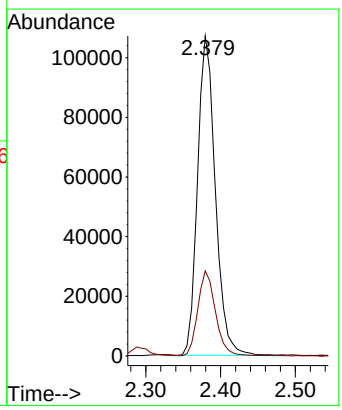


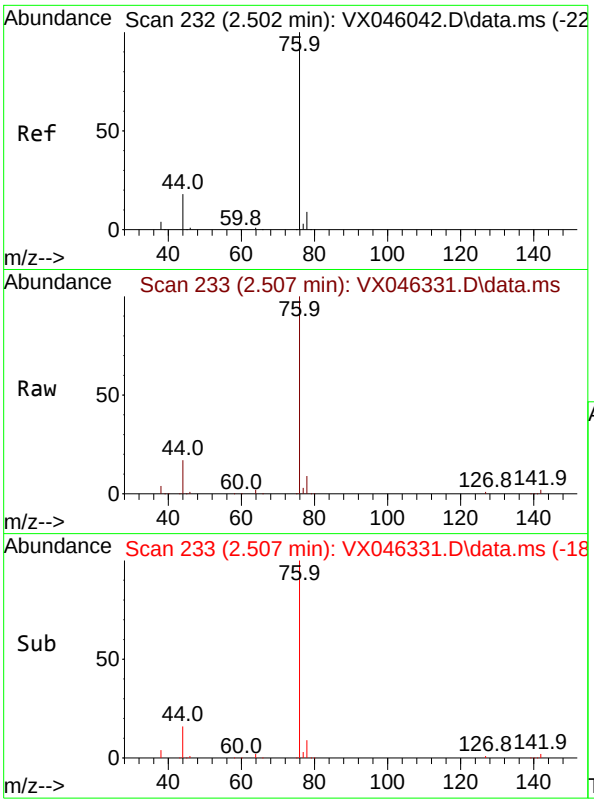


#16
Acetone
Concen: 263.114 ug/l
RT: 2.379 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 43 Resp: 176899

Ion	Ratio	Lower	Upper
43	100		
58	26.6	21.2	31.8



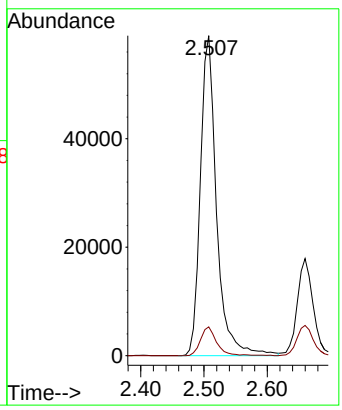


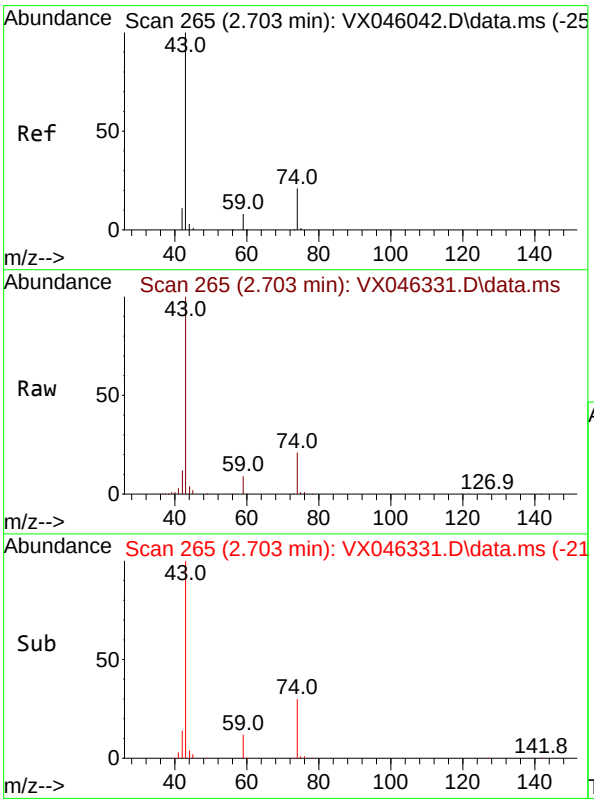
#17
Carbon Disulfide
Concen: 41.606 ug/l
RT: 2.507 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 105198

Ion	Ratio	Lower	Upper
76	100		
78	9.0	7.0	10.4

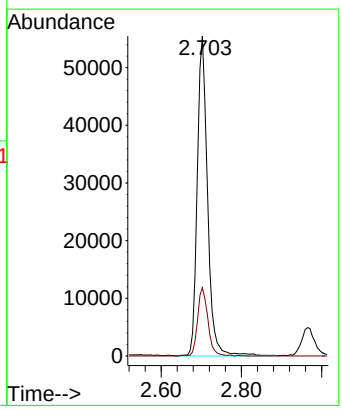


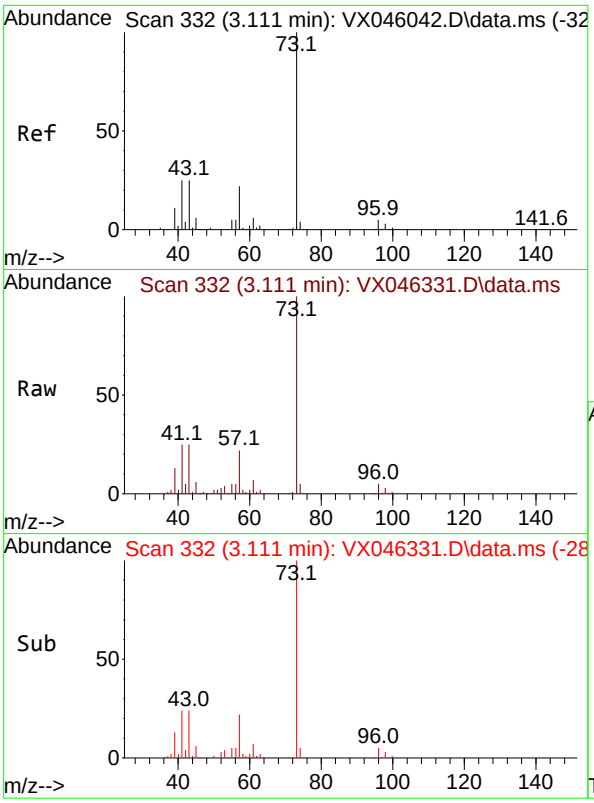


#18
Methyl Acetate
Concen: 63.388 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 43 Resp: 98895

Ion	Ratio	Lower	Upper
43	100		
74	21.4	16.7	25.1



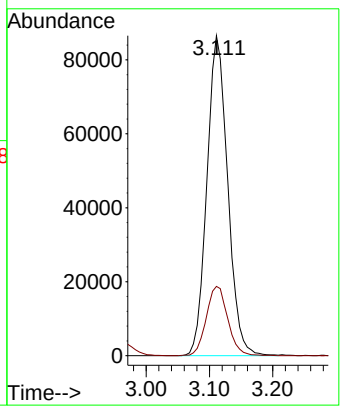


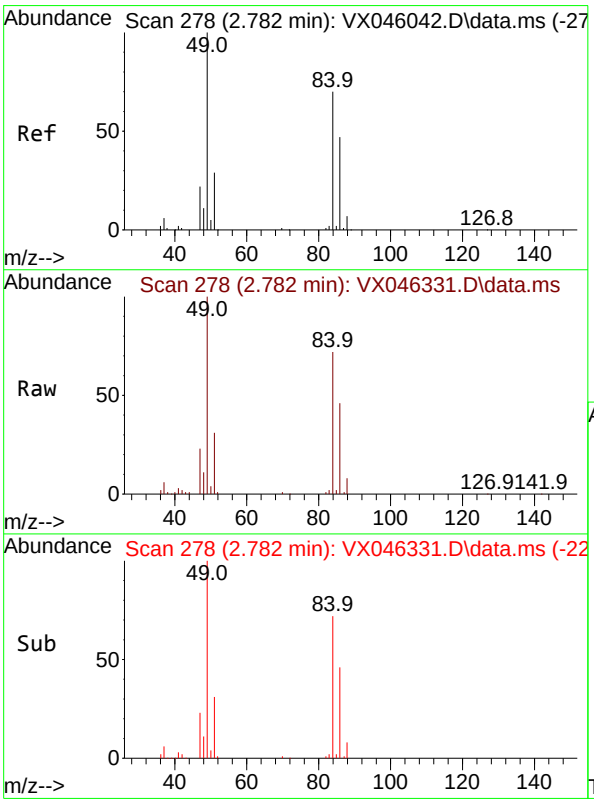
#19
Methyl tert-butyl Ether
Concen: 52.851 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 73 Resp: 197614

Ion	Ratio	Lower	Upper
73	100		
57	21.7	17.7	26.5

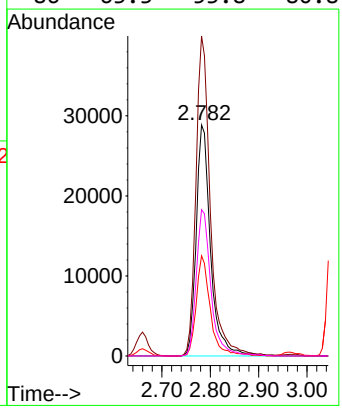


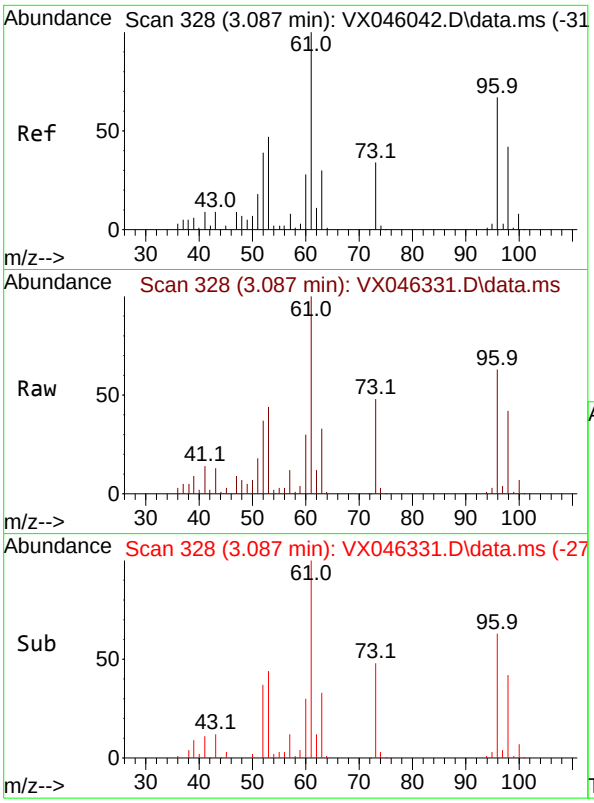


#20
Methylene Chloride
Concen: 46.299 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 84 Resp: 59651

Ion	Ratio	Lower	Upper
84	100		
49	138.5	113.9	170.9
51	43.3	33.5	50.3
86	63.3	53.8	80.8



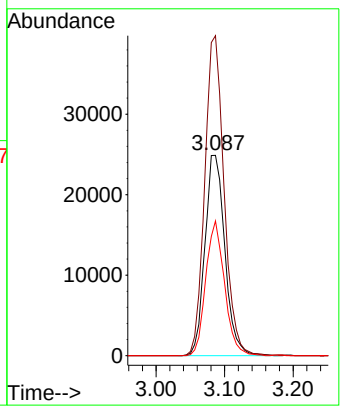


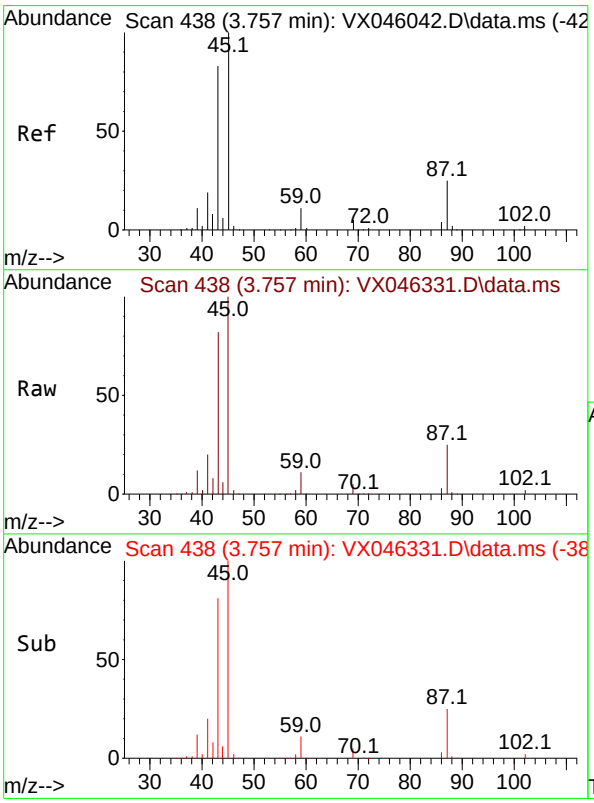
#21
trans-1,2-Dichloroethene
Concen: 47.000 ug/l
RT: 3.087 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 96 Resp: 50409

Ion	Ratio	Lower	Upper
96	100		
61	159.7	119.5	179.3
98	67.3	50.0	75.0

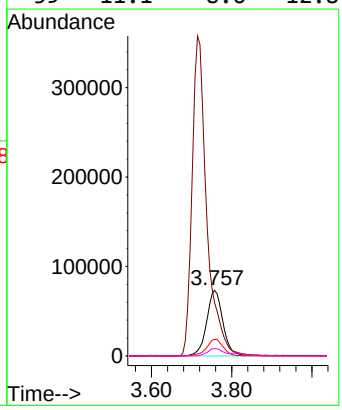


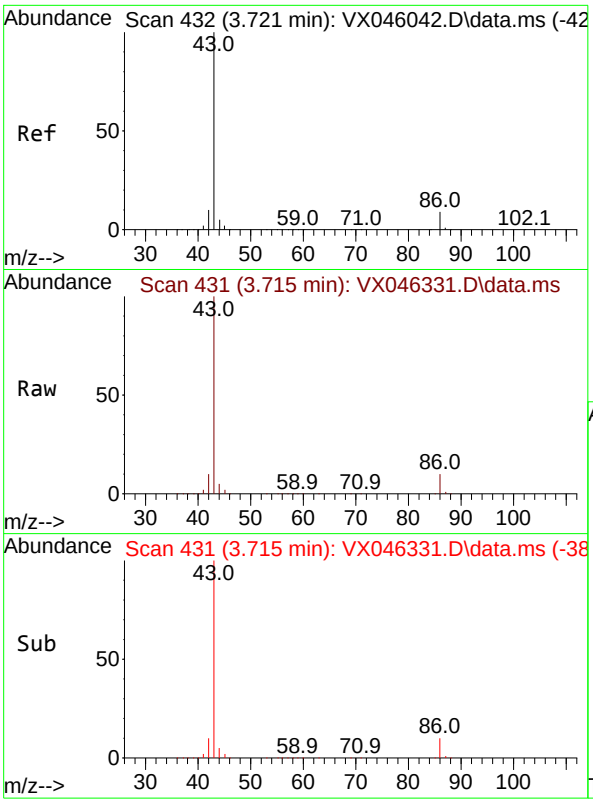


#22
Diisopropyl ether
Concen: 52.704 ug/l
RT: 3.757 min Scan# 438
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 45 Resp: 207508

Ion	Ratio	Lower	Upper
45	100		
43	81.5	66.6	100.0
87	25.1	19.8	29.6
59	11.1	8.6	12.8



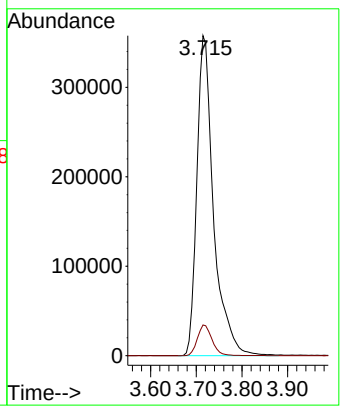


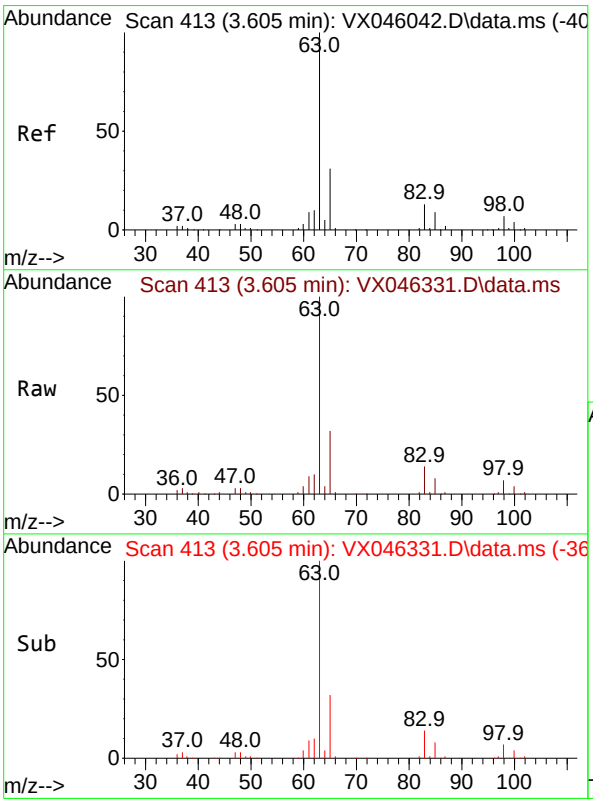
#23
Vinyl Acetate
Concen: 263.054 ug/l
RT: 3.715 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 910937

Ion	Ratio	Lower	Upper
43	100		
86	9.6	7.5	11.3

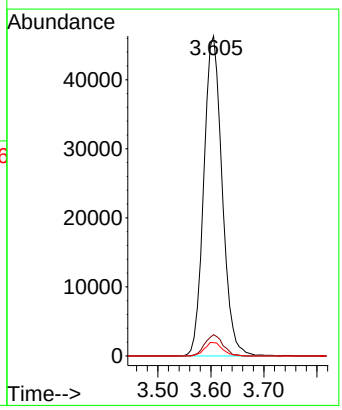


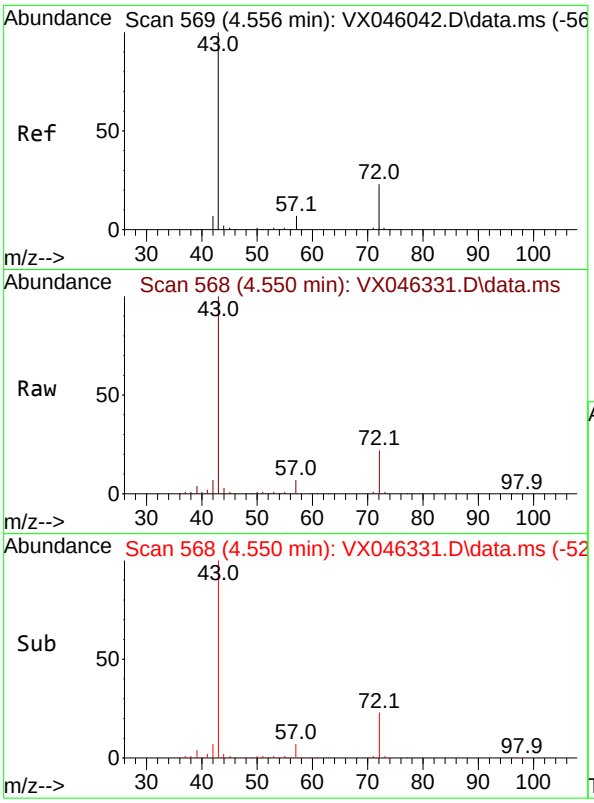


#24
1,1-Dichloroethane
Concen: 50.826 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 63 Resp: 111459

Ion	Ratio	Lower	Upper
63	100		
98	6.6	3.6	10.8
100	4.1	2.1	6.3



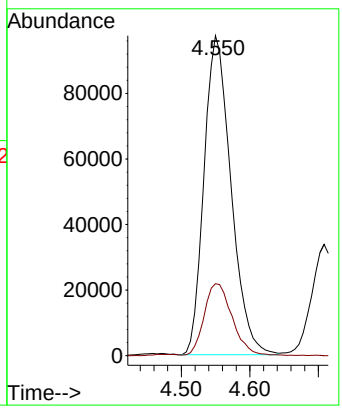


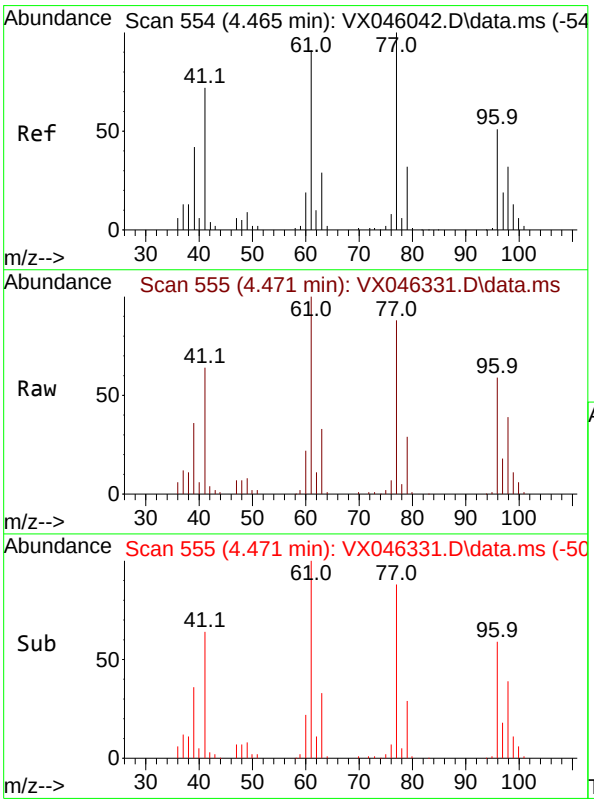
#25
2-Butanone
Concen: 272.843 ug/l
RT: 4.550 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 266316

Ion	Ratio	Lower	Upper
43	100		
72	22.3	18.4	27.6

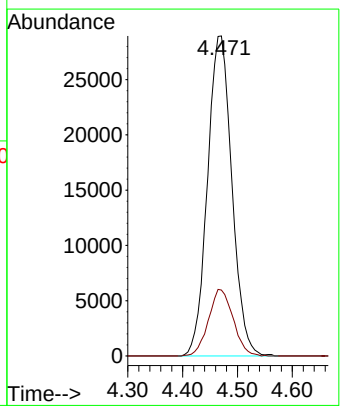


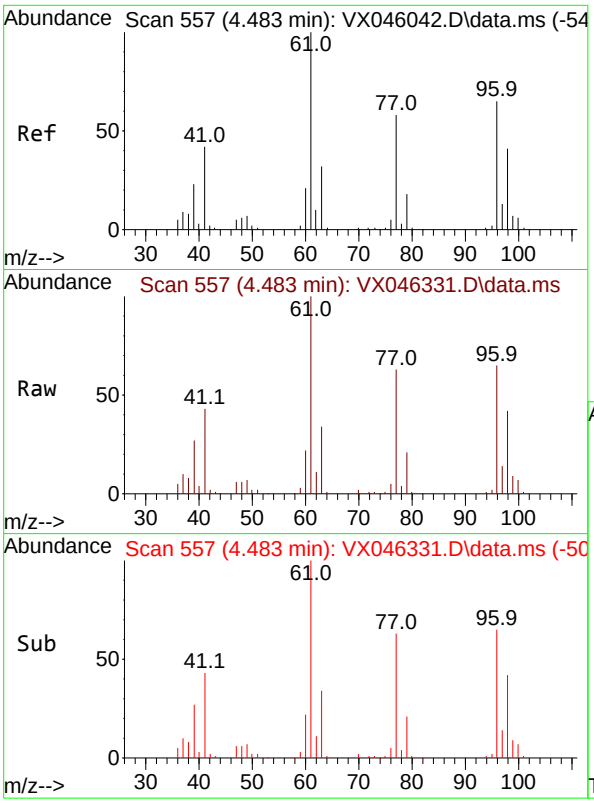


#26
2,2-Dichloropropane
Concen: 52.155 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 77 Resp: 89521

Ion	Ratio	Lower	Upper
77	100		
97	21.0	10.5	31.5



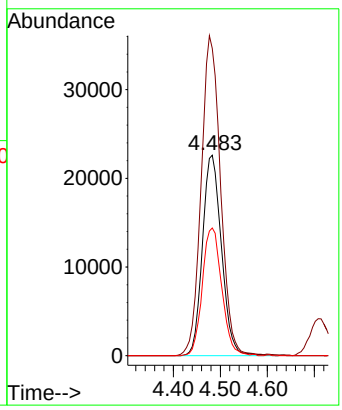


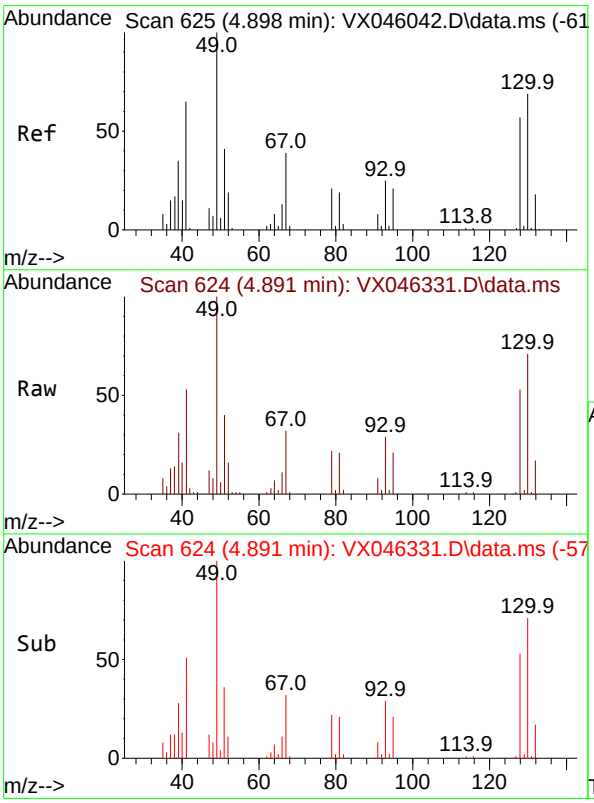
#27
cis-1,2-Dichloroethene
Concen: 49.159 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 96 Resp: 63472

Ion	Ratio	Lower	Upper
96	100		
61	162.9	0.0	322.8
98	65.1	0.0	129.0

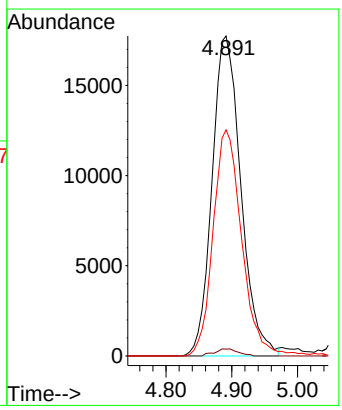


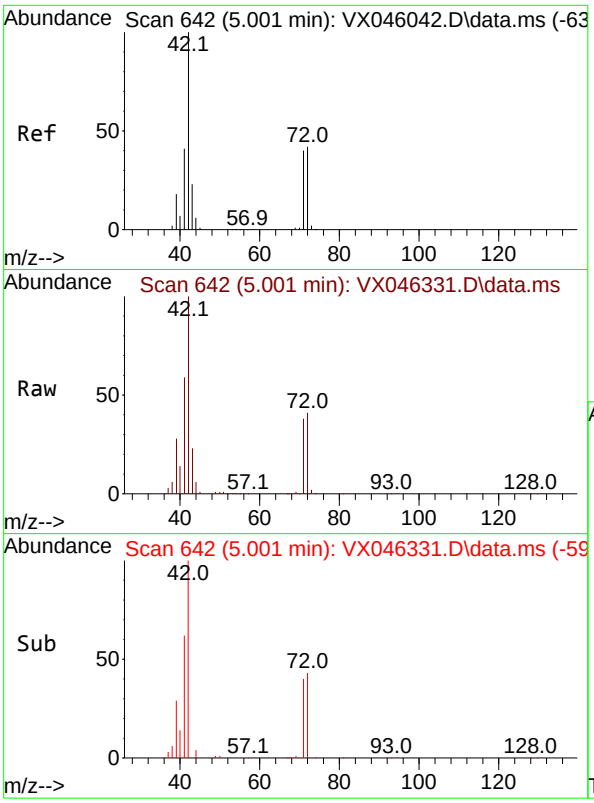


#28
Bromochloromethane
Concen: 51.292 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 49 Resp: 54142

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	4.0
130	70.2	56.2	84.2



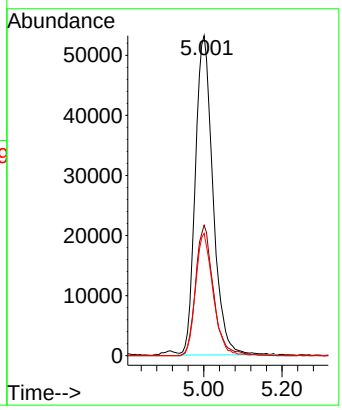


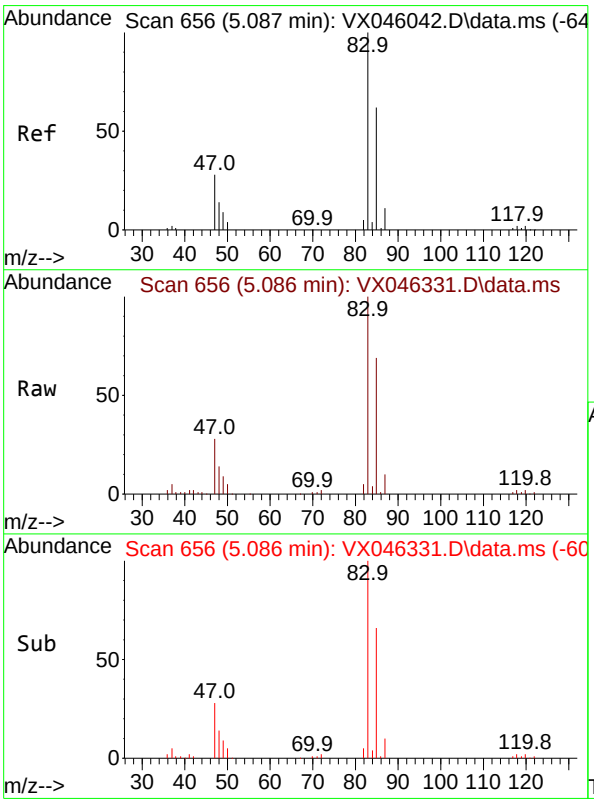
#29
Tetrahydrofuran
Concen: 272.575 ug/l
RT: 5.001 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 42 Resp: 166716

Ion	Ratio	Lower	Upper
42	100		
72	41.2	33.7	50.5
71	37.9	31.4	47.2

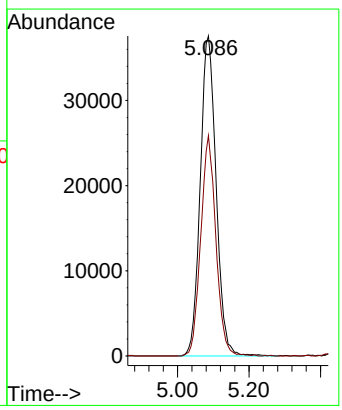


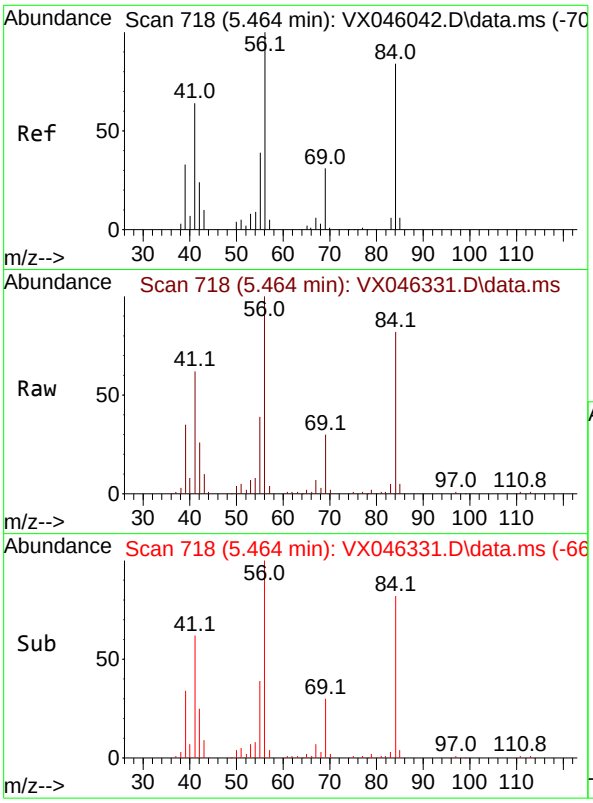


#30
Chloroform
Concen: 50.618 ug/l
RT: 5.086 min Scan# 656
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 83 Resp: 115698

Ion	Ratio	Lower	Upper
83	100		
85	68.9	49.3	73.9



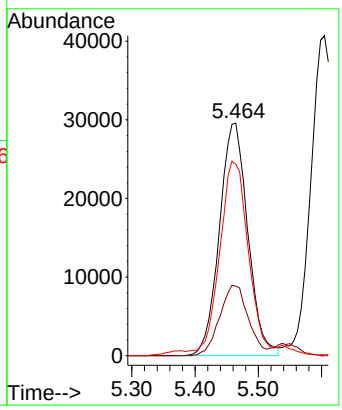


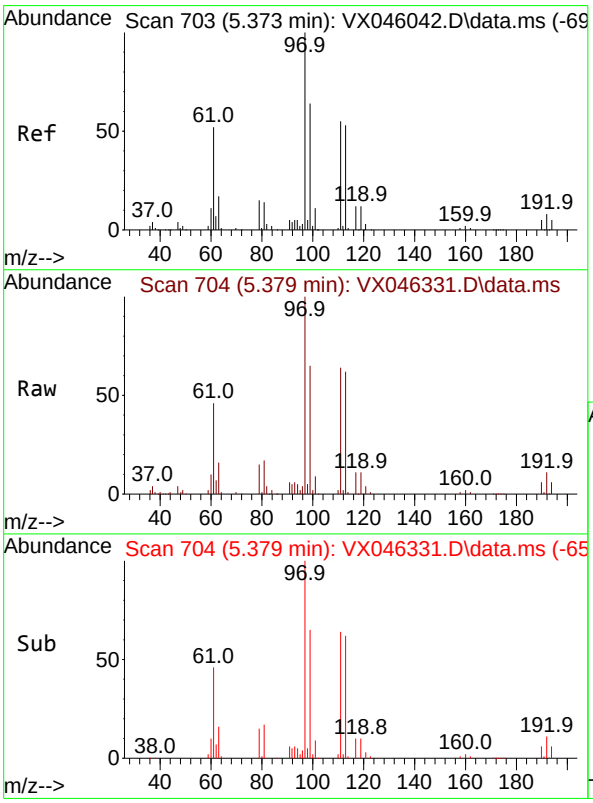
#31
Cyclohexane
Concen: 46.166 ug/l
RT: 5.464 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 56 Resp: 92255

Ion	Ratio	Lower	Upper
56	100		
69	30.0	24.4	36.6
84	80.1	66.9	100.3

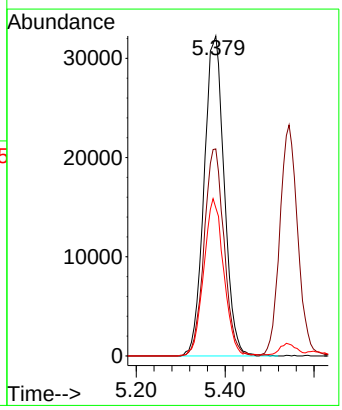


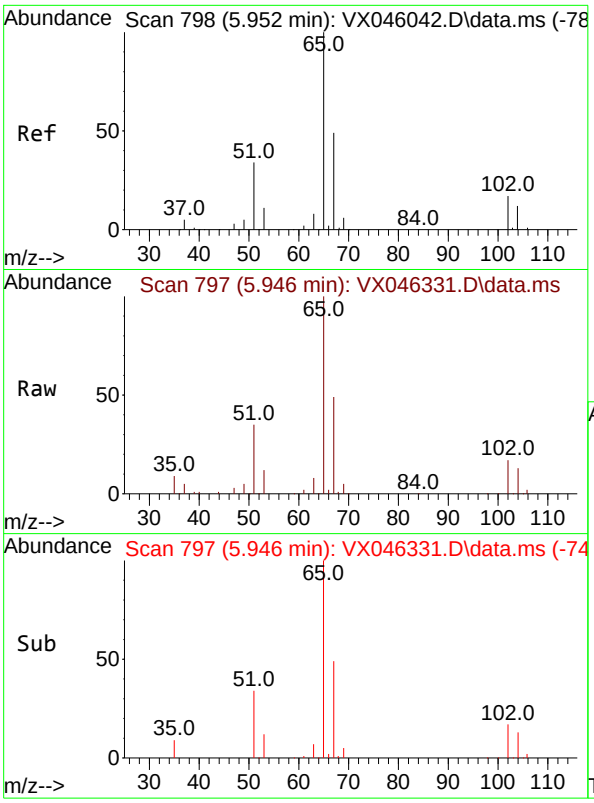


#32
1,1,1-Trichloroethane
Concen: 51.206 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.006 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 97 Resp: 101459

Ion	Ratio	Lower	Upper
97	100		
99	64.1	51.8	77.6
61	49.1	40.1	60.1



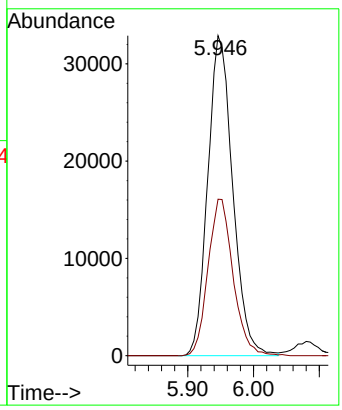


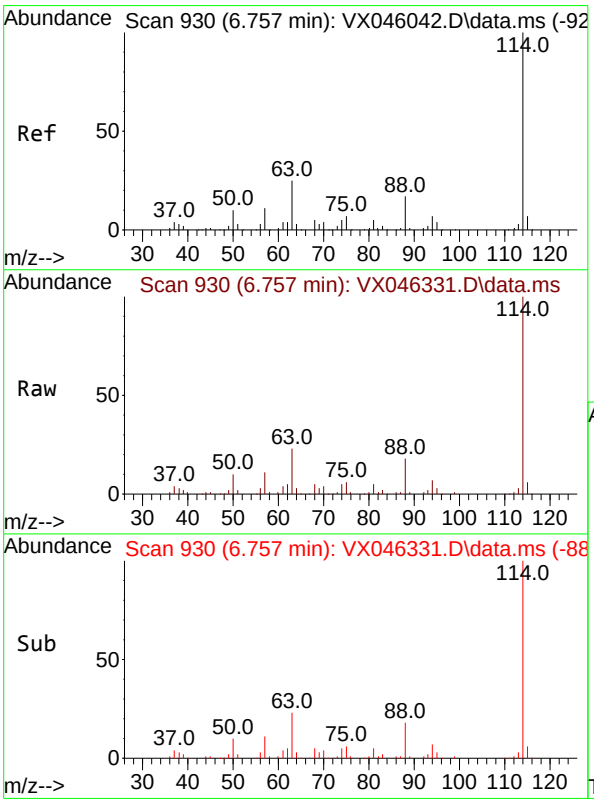
#33
1,2-Dichloroethane-d4
Concen: 51.802 ug/l
RT: 5.946 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 65 Resp: 86863

Ion	Ratio	Lower	Upper
65	100		
67	49.1	0.0	99.0

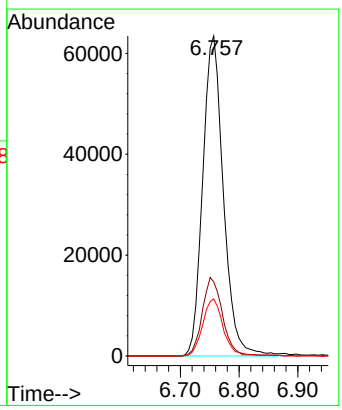


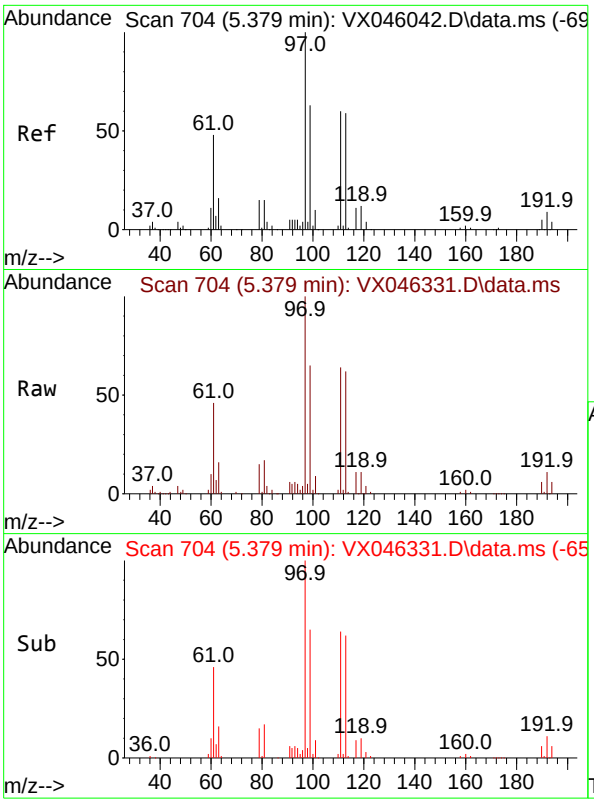


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion:114 Resp: 154938

Ion	Ratio	Lower	Upper
114	100		
63	23.1	0.0	49.2
88	17.8	0.0	33.6



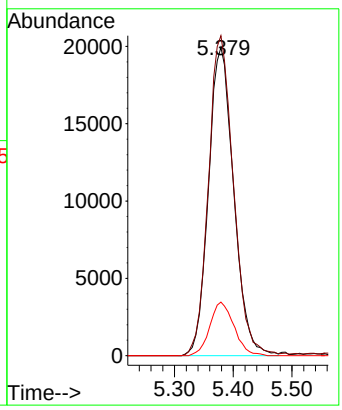


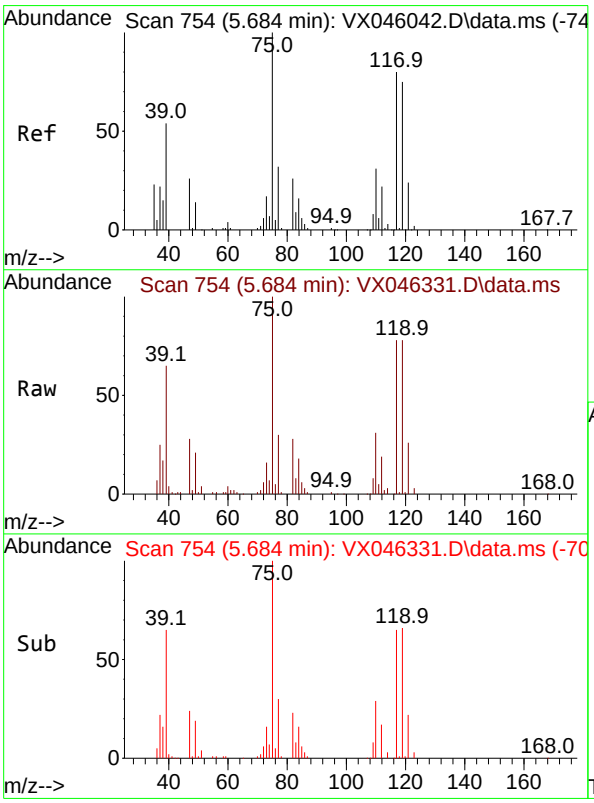
#35
Dibromofluoromethane
Concen: 53.265 ug/l
RT: 5.379 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:113 Resp: 59429

Ion	Ratio	Lower	Upper
113	100		
111	103.2	83.1	124.7
192	16.7	13.3	19.9

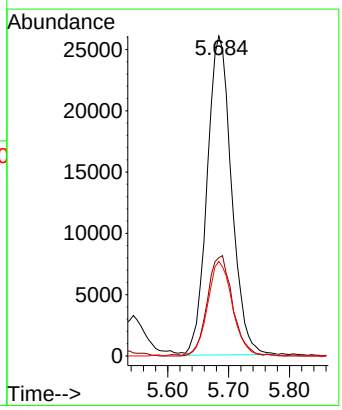


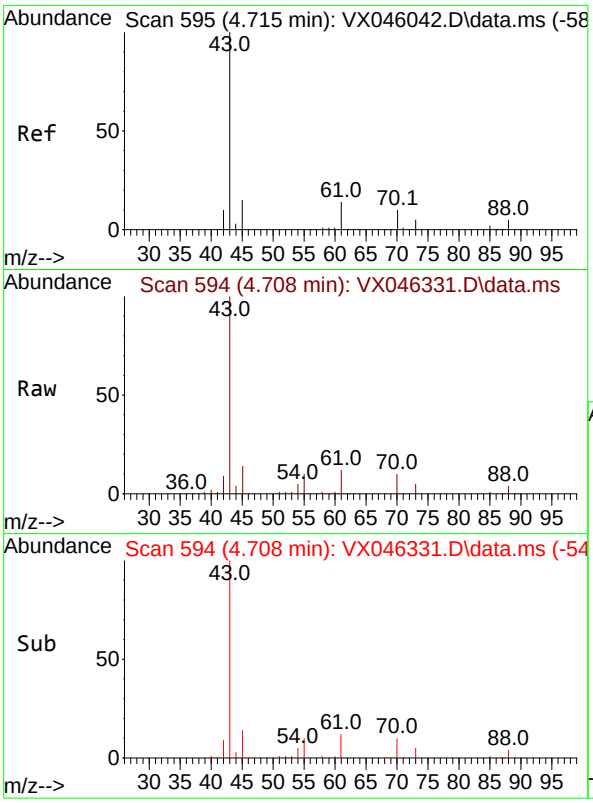


#36
1,1-Dichloropropene
Concen: 48.349 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 75 Resp: 72479

Ion	Ratio	Lower	Upper
75	100		
110	32.3	16.3	48.9
77	30.3	24.3	36.5



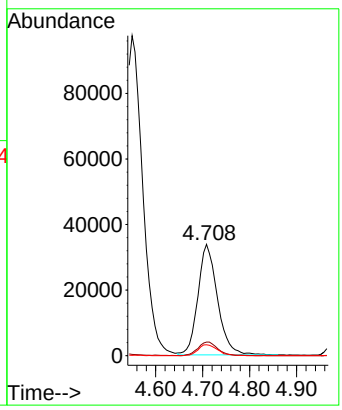


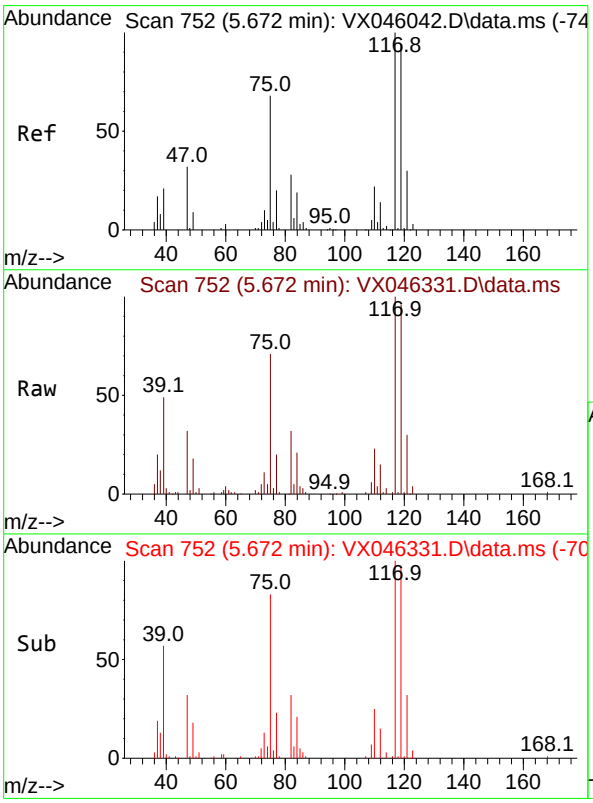
#37
Ethyl Acetate
Concen: 52.723 ug/l
RT: 4.708 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 97648

Ion	Ratio	Lower	Upper
43	100		
61	12.5	10.3	15.5
70	9.9	7.9	11.9

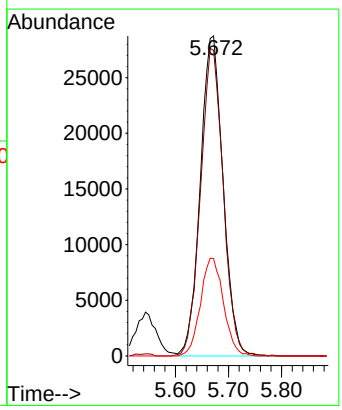


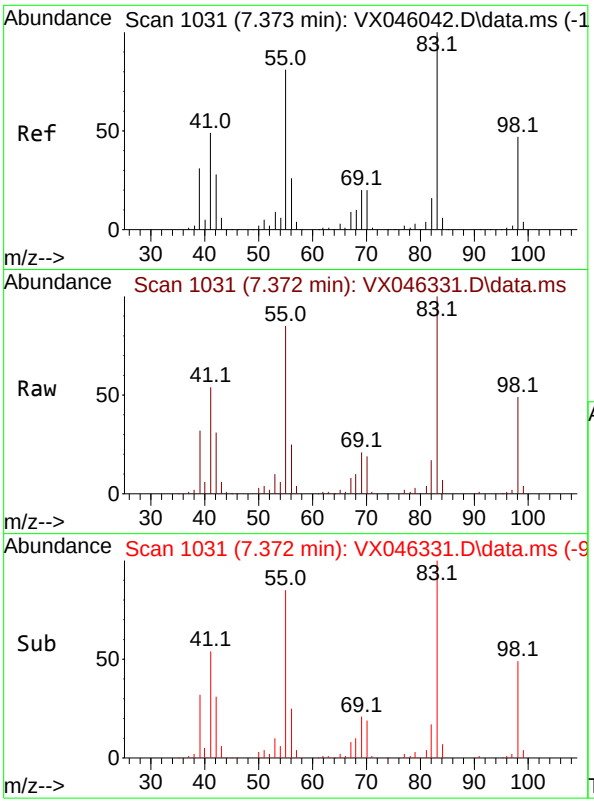


#38
Carbon Tetrachloride
Concen: 50.709 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion:117 Resp: 85412

Ion	Ratio	Lower	Upper
117	100		
119	95.5	75.2	112.8
121	30.4	24.2	36.4



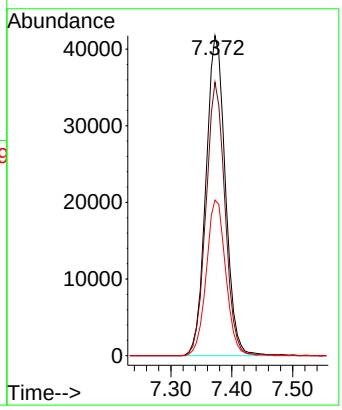


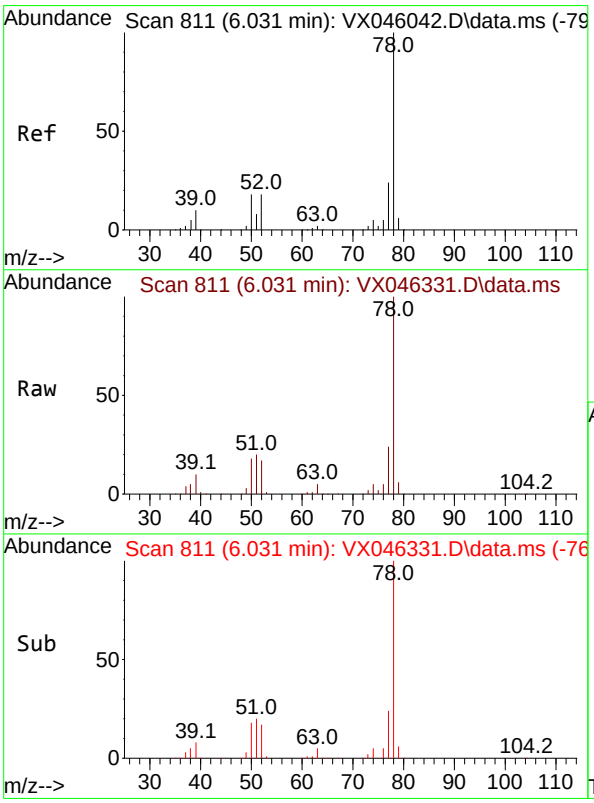
#39
Methylcyclohexane
Concen: 47.954 ug/l
RT: 7.372 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 92549

Ion	Ratio	Lower	Upper
83	100		
55	85.5	64.7	97.1
98	48.7	37.4	56.2

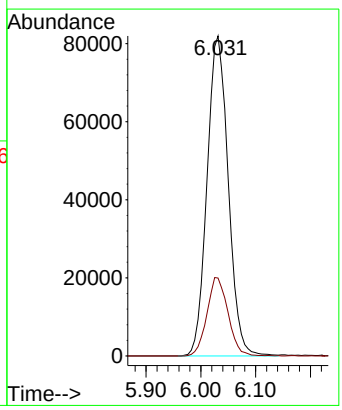


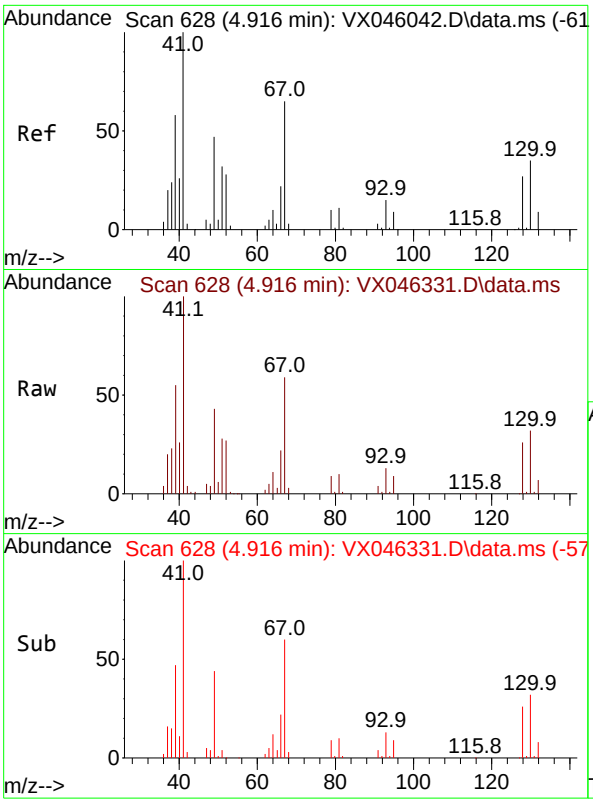


#40
Benzene
Concen: 50.133 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 78 Resp: 220133

Ion	Ratio	Lower	Upper
78	100		
77	24.4	19.0	28.4



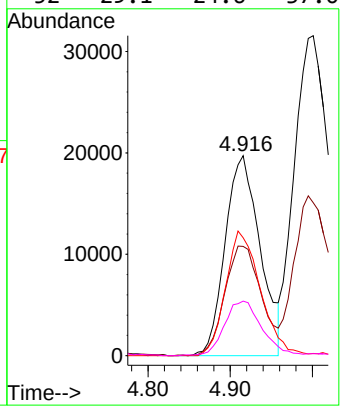


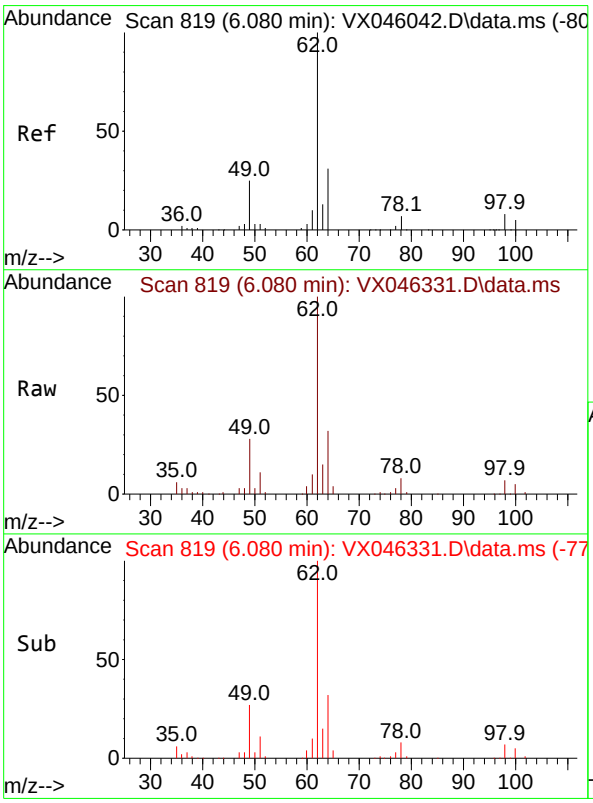
#41
Methacrylonitrile
Concen: 60.322 ug/l
RT: 4.916 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 41 Resp: 58444

Ion	Ratio	Lower	Upper
41	100		
39	57.4	47.2	70.8
67	62.0	50.7	76.1
52	29.1	24.6	37.0

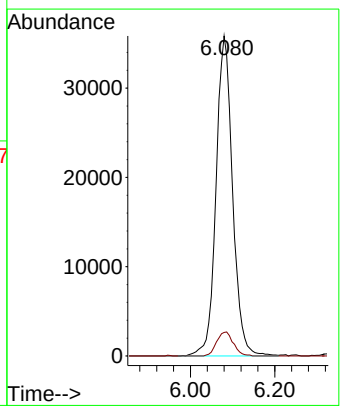


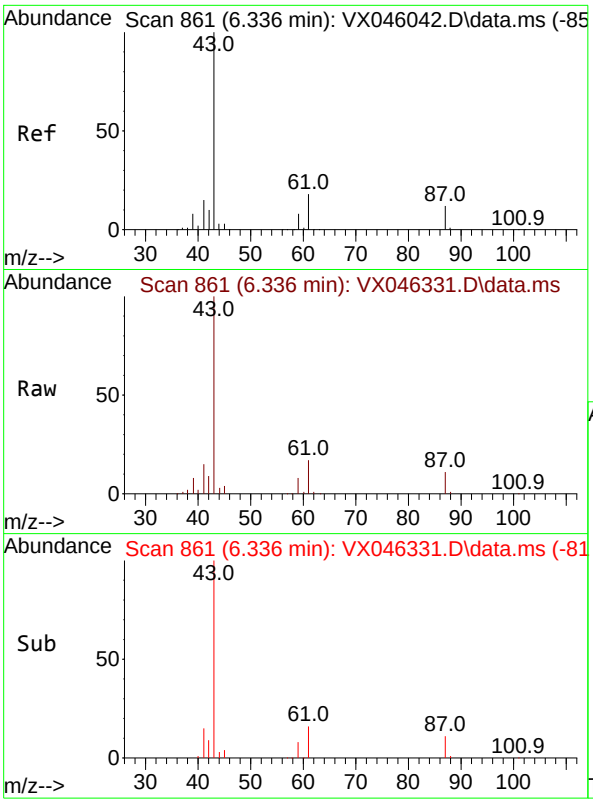


#42
1,2-Dichloroethane
Concen: 51.375 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 62 Resp: 97361

Ion	Ratio	Lower	Upper
62	100		
98	7.6	0.0	15.2



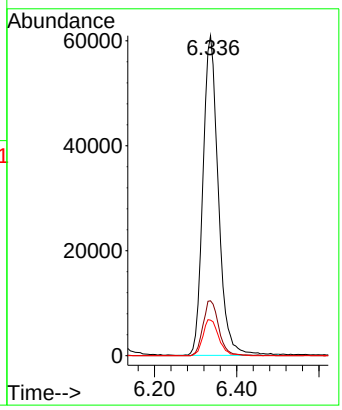


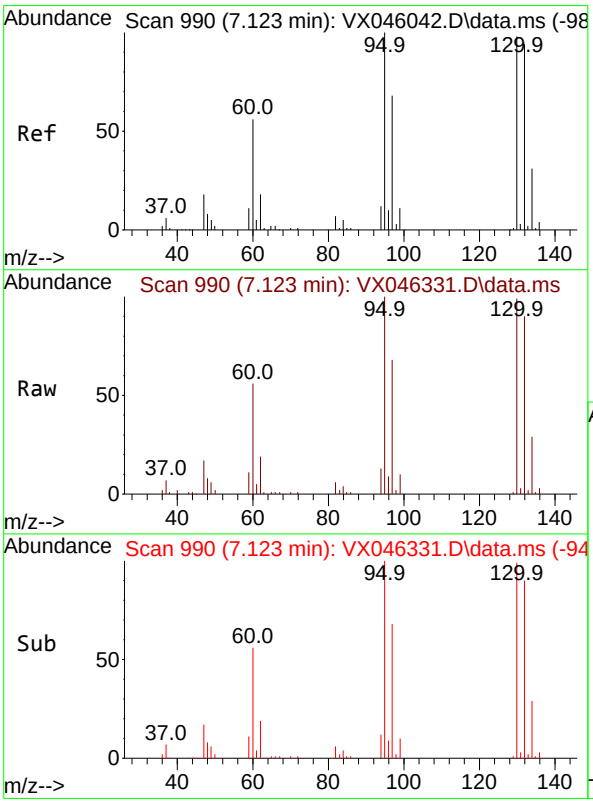
#43
Isopropyl Acetate
Concen: 55.999 ug/l
RT: 6.336 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 158225

Ion	Ratio	Lower	Upper
43	100		
61	17.6	14.3	21.5
87	11.6	9.5	14.3

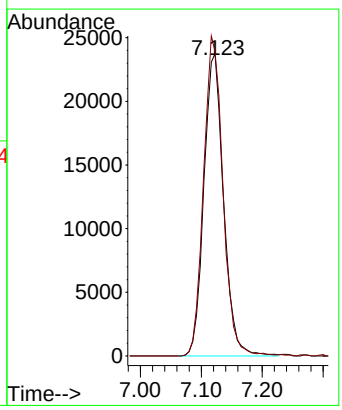


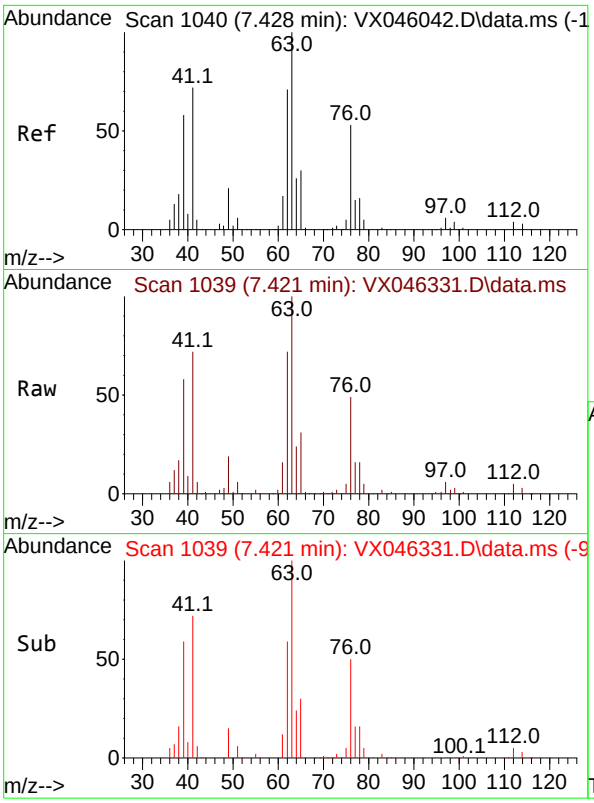


#44
Trichloroethene
Concen: 50.279 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion:130 Resp: 53136

Ion	Ratio	Lower	Upper
130	100		
95	100.8	0.0	204.2



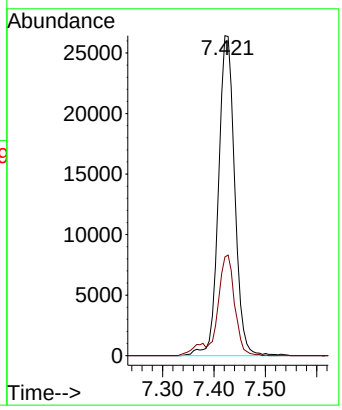


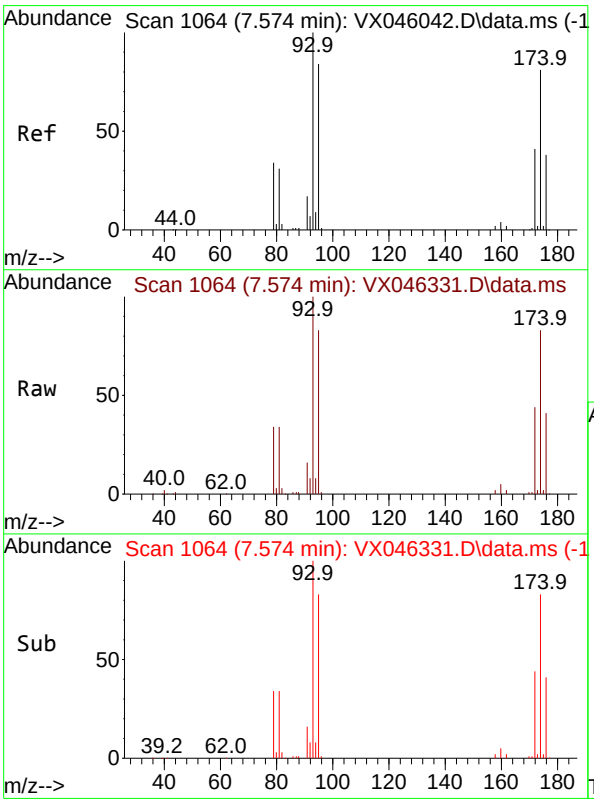
#45
1,2-Dichloropropane
Concen: 53.136 ug/l
RT: 7.421 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 63 Resp: 58016

Ion	Ratio	Lower	Upper
63	100		
65	30.8	24.1	36.1

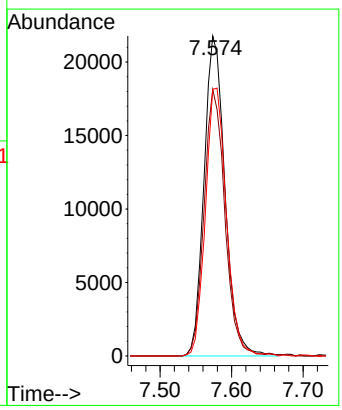


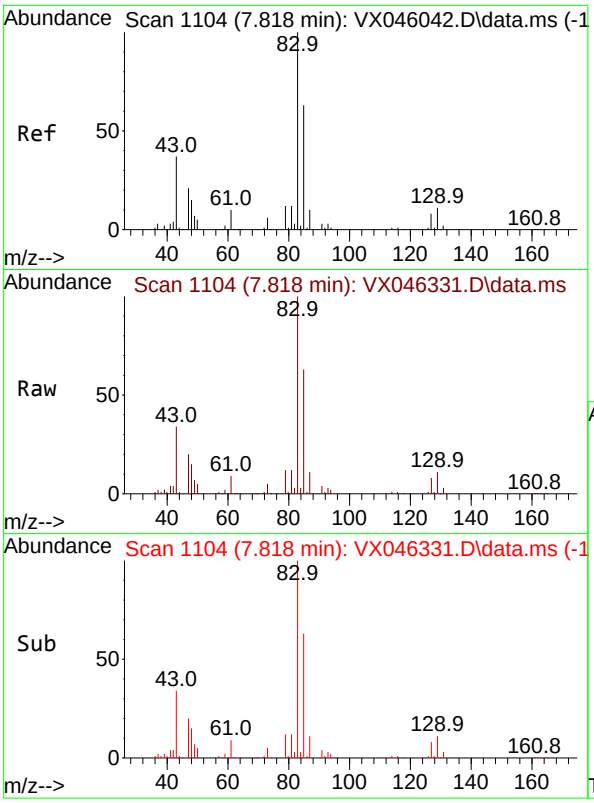


#46
Dibromomethane
Concen: 51.454 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 93 Resp: 44309

Ion	Ratio	Lower	Upper
93	100		
95	82.7	65.6	98.4
174	84.2	68.2	102.2



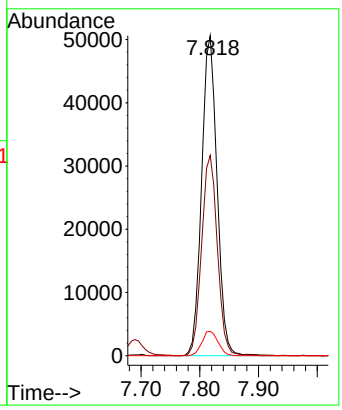


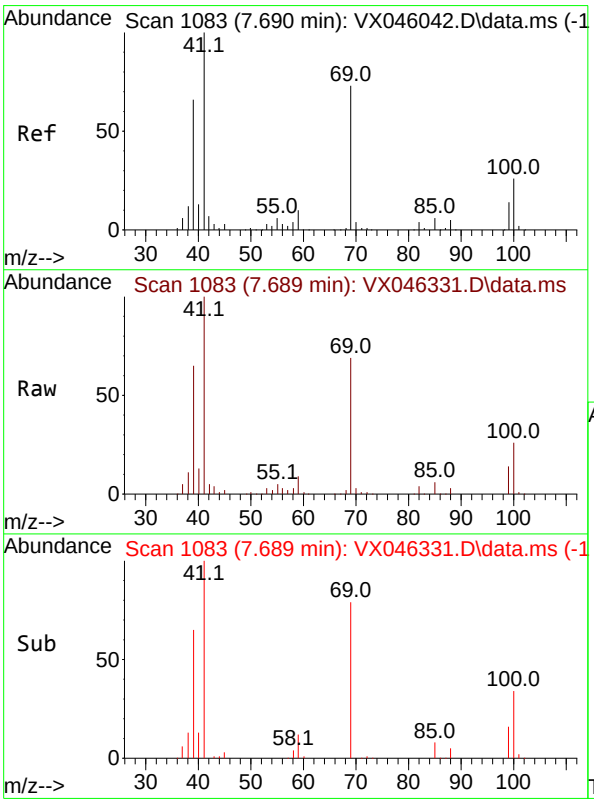
#47
Bromodichloromethane
Concen: 54.392 ug/l
RT: 7.818 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 92253

Ion	Ratio	Lower	Upper
83	100		
85	62.6	50.5	75.7
127	7.6	6.5	9.7

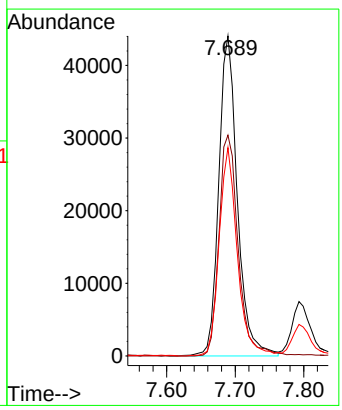


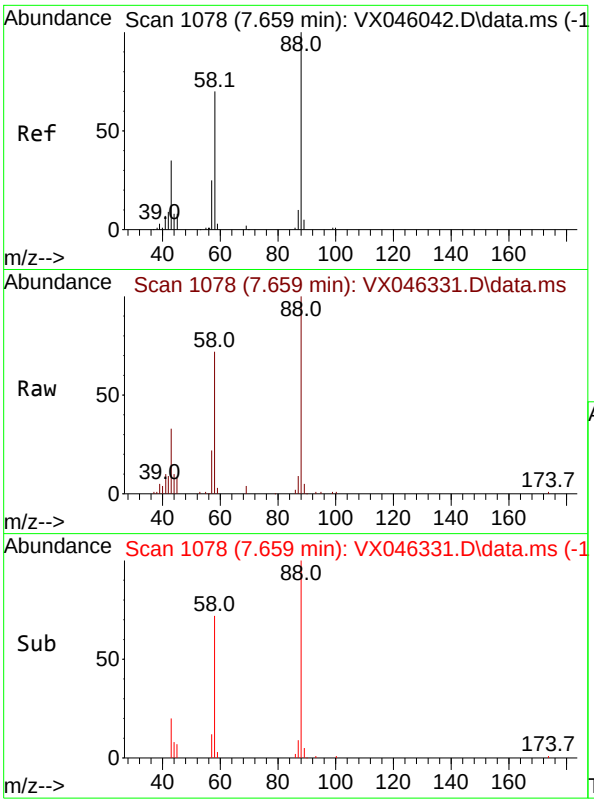


#48
Methyl methacrylate
Concen: 57.467 ug/l
RT: 7.689 min Scan# 1083
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 41 Resp: 82925

Ion	Ratio	Lower	Upper
41	100		
69	72.0	58.5	87.7
39	63.5	51.7	77.5



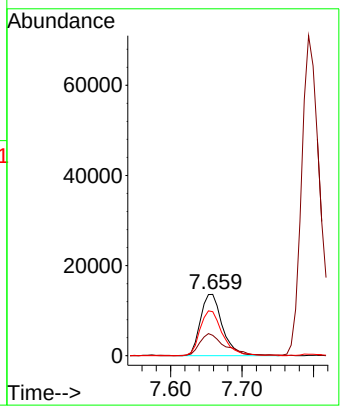


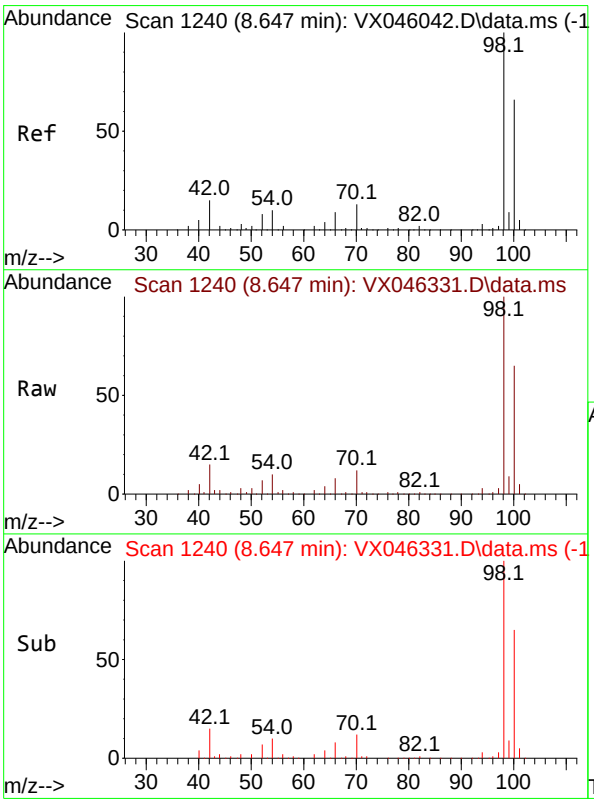
#49
1,4-Dioxane
Concen: 1053.147 ug/l
RT: 7.659 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 88 Resp: 28855

Ion	Ratio	Lower	Upper
88	100		
43	42.3	33.4	50.2
58	74.9	58.6	88.0

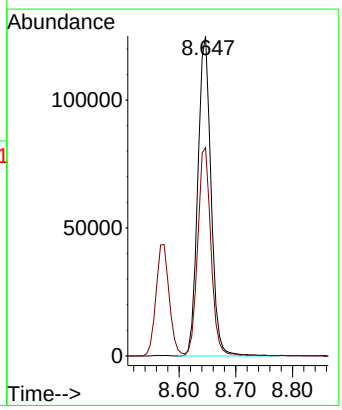


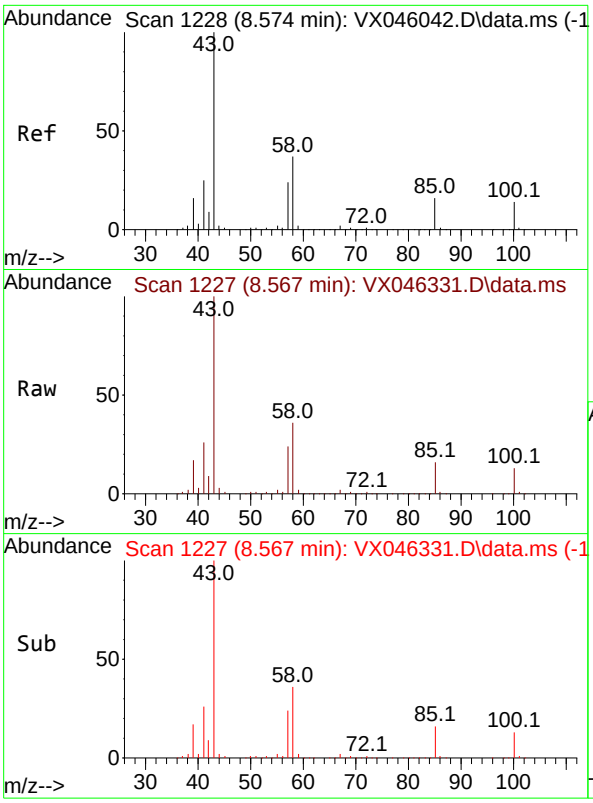


#50
Toluene-d8
Concen: 52.423 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 98 Resp: 202439

Ion	Ratio	Lower	Upper
98	100		
100	64.6	53.5	80.3



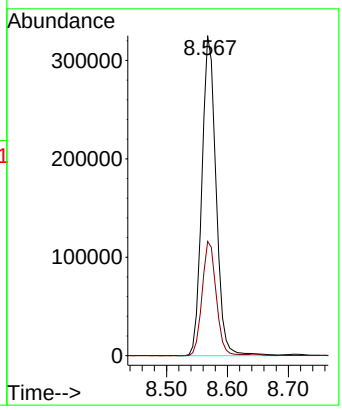


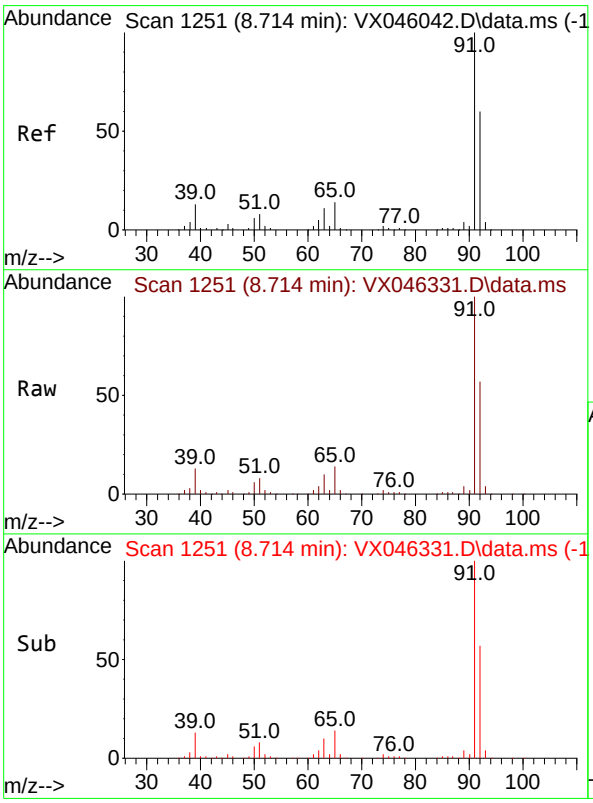
#51
4-Methyl-2-Pentanone
Concen: 279.753 ug/l
RT: 8.567 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 524686

Ion	Ratio	Lower	Upper
43	100		
58	35.5	28.9	43.3

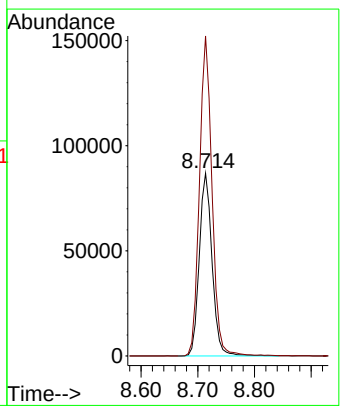


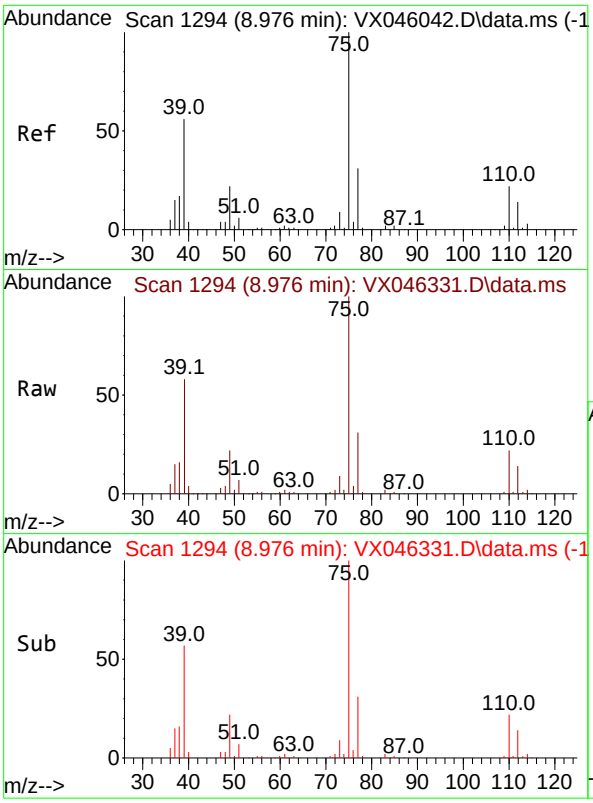


#52
Toluene
Concen: 50.537 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 92 Resp: 136068

Ion	Ratio	Lower	Upper
92	100		
91	172.1	136.6	205.0



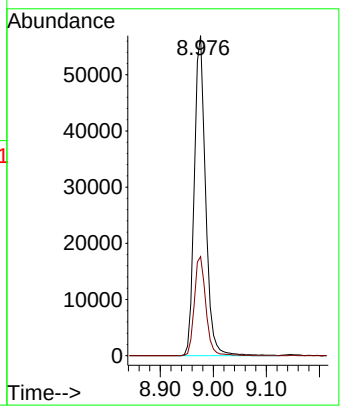


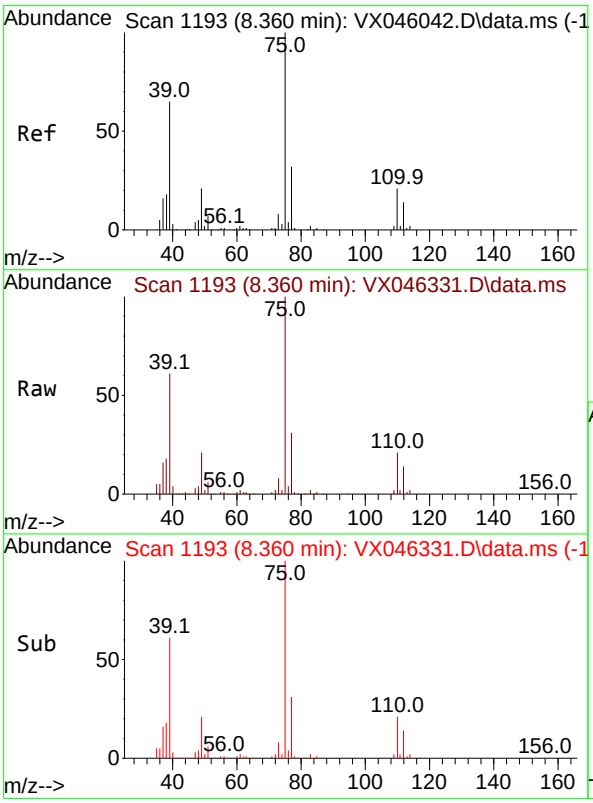
#53
t-1,3-Dichloropropene
Concen: 55.750 ug/l
RT: 8.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 84046

Ion	Ratio	Lower	Upper
75	100		
77	30.9	25.0	37.6

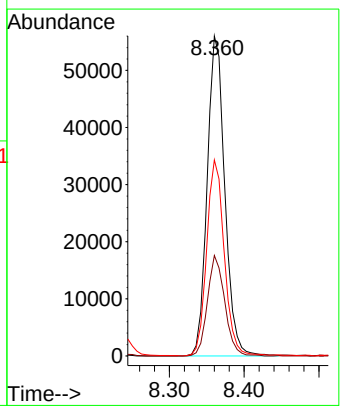


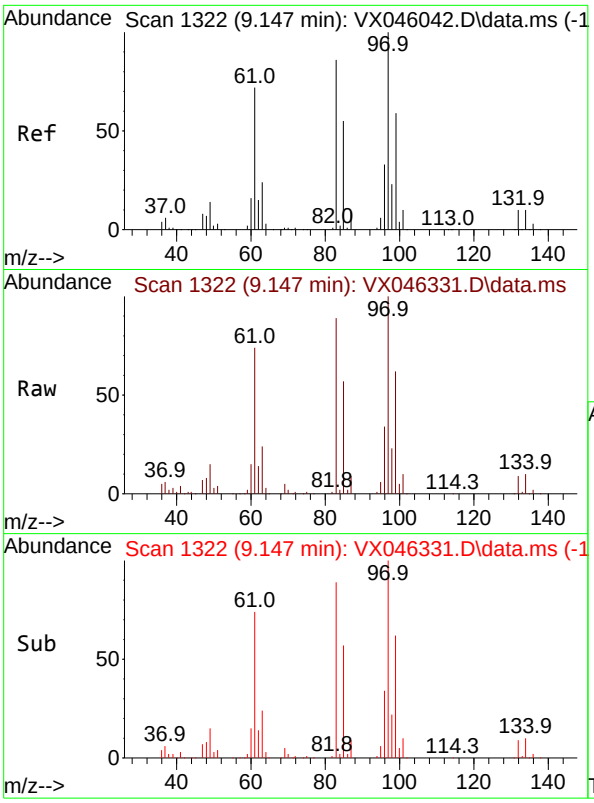


#54
cis-1,3-Dichloropropene
Concen: 54.982 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 75 Resp: 91612

Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.4	38.0
39	61.1	52.2	78.4



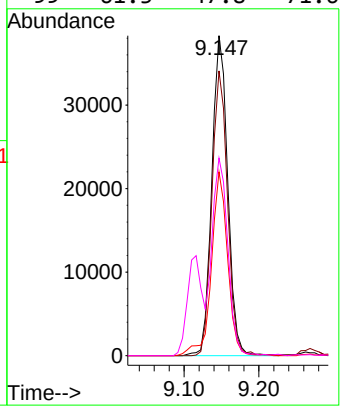


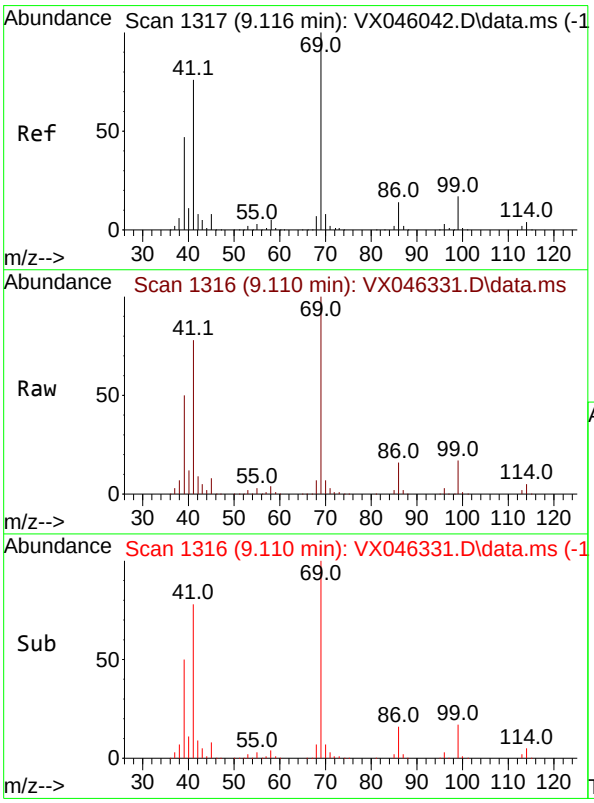
#55
1,1,2-Trichloroethane
Concen: 53.371 ug/l
RT: 9.147 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 97 Resp: 56661

Ion	Ratio	Lower	Upper
97	100		
83	89.0	69.0	103.6
85	57.5	44.3	66.5
99	61.3	47.8	71.6

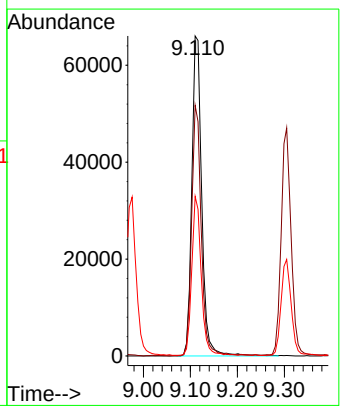


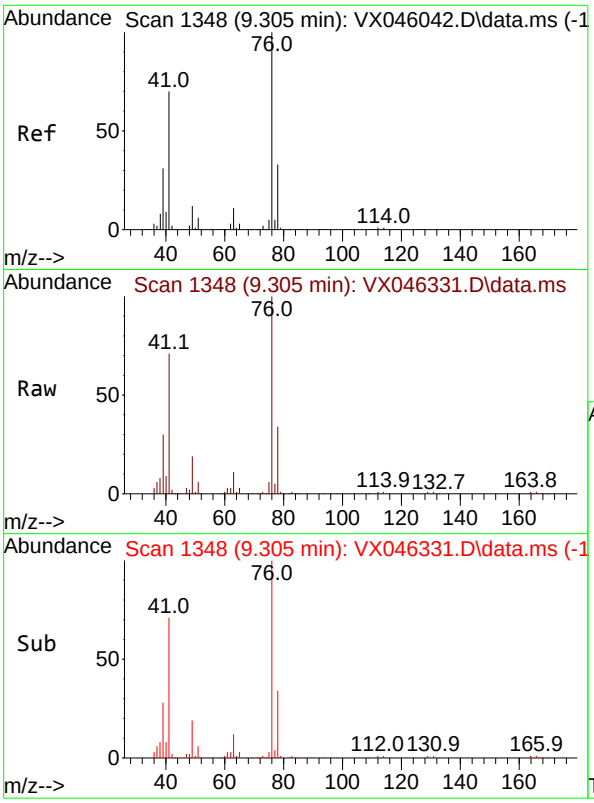


#56
Ethyl methacrylate
Concen: 57.619 ug/l
RT: 9.110 min Scan# 1316
Delta R.T. -0.006 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 69 Resp: 97493

Ion	Ratio	Lower	Upper
69	100		
41	75.9	60.8	91.2
39	47.4	39.0	58.6



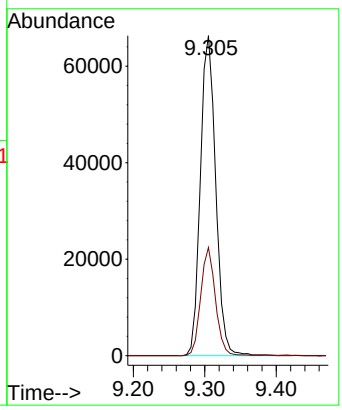


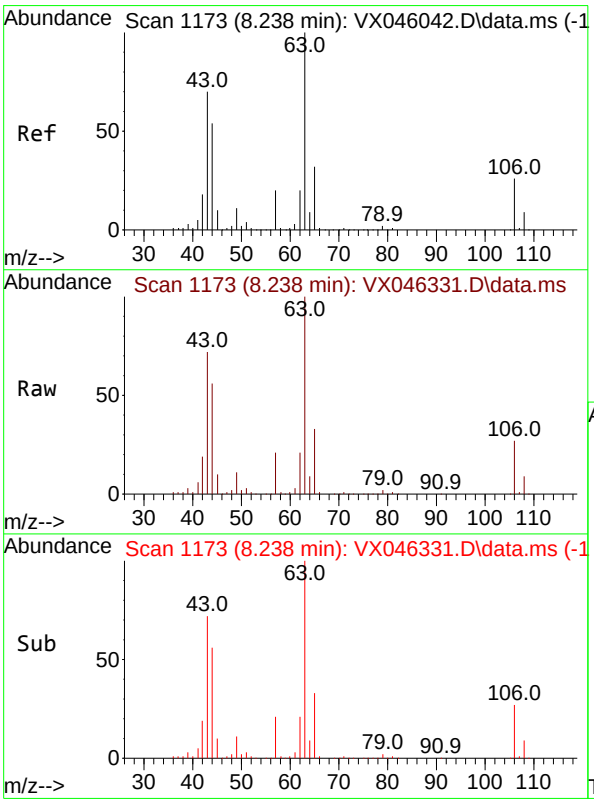
#57
1,3-Dichloropropane
Concen: 51.895 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 98945

Ion	Ratio	Lower	Upper
76	100		
78	32.4	26.3	39.5

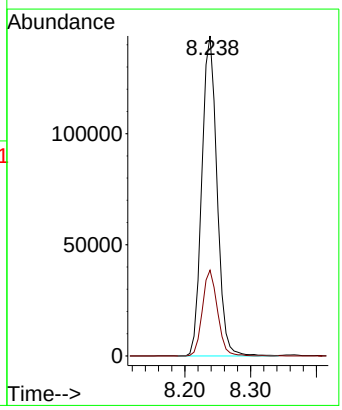


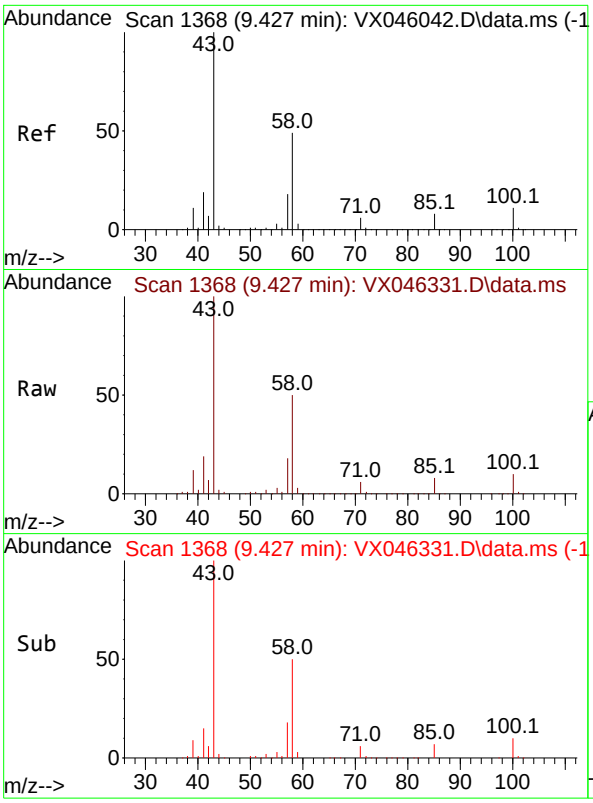


#58
2-Chloroethyl Vinyl ether
Concen: 268.416 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 63 Resp: 231542

Ion	Ratio	Lower	Upper
63	100		
106	26.5	21.5	32.3



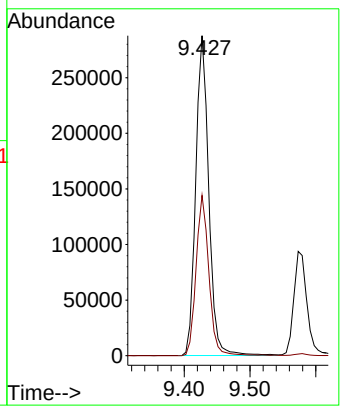


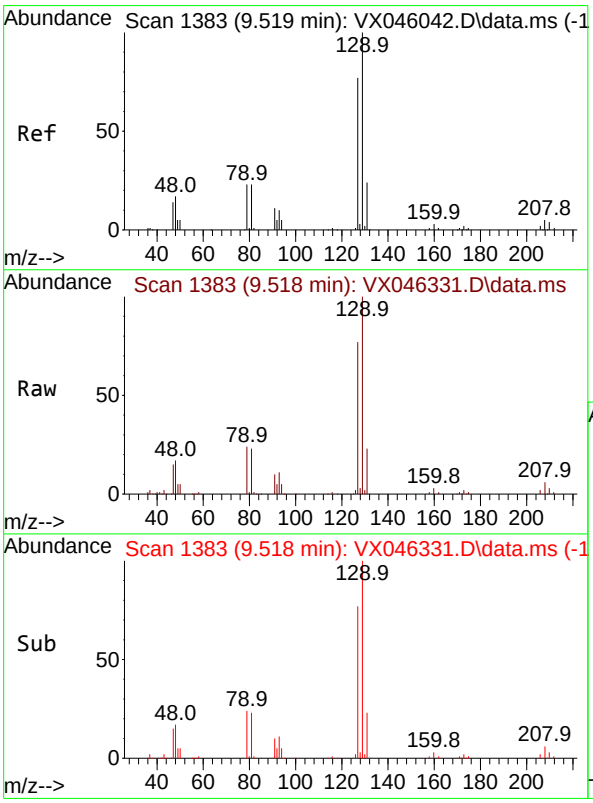
#59
2-Hexanone
Concen: 285.172 ug/l
RT: 9.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 395700

Ion	Ratio	Lower	Upper
43	100		
58	49.5	24.9	74.6

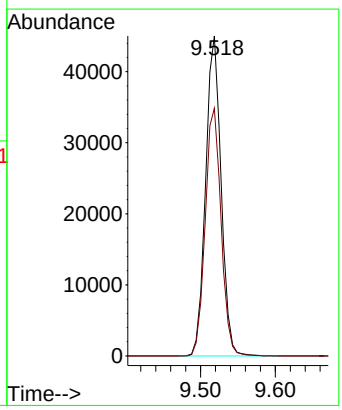


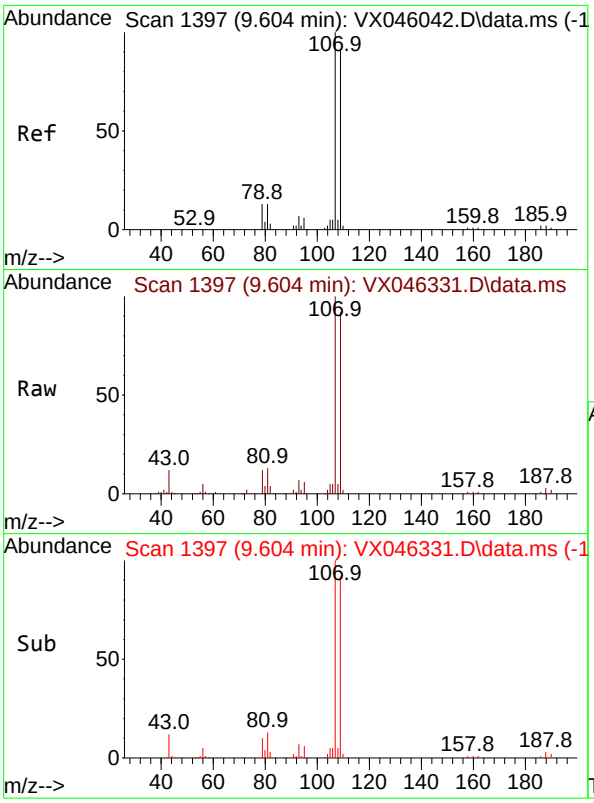


#60
Dibromochloromethane
Concen: 55.399 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion:129 Resp: 64591

Ion	Ratio	Lower	Upper
129	100		
127	79.4	39.3	117.8



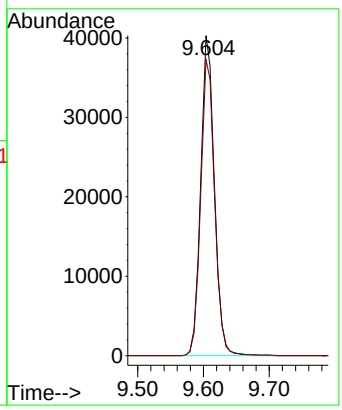


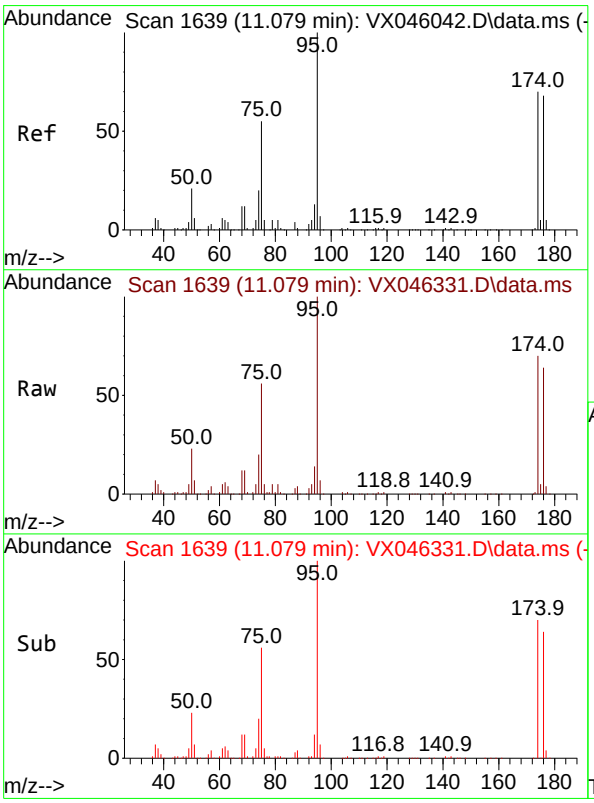
#61
1,2-Dibromoethane
Concen: 52.931 ug/l
RT: 9.604 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:107 Resp: 58405

Ion	Ratio	Lower	Upper
107	100		
109	93.9	73.3	109.9

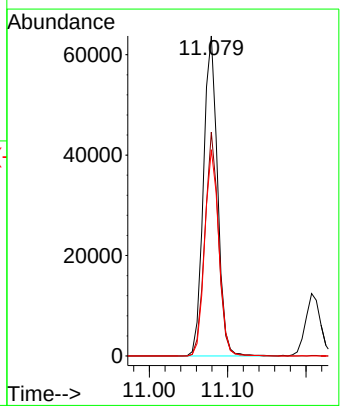


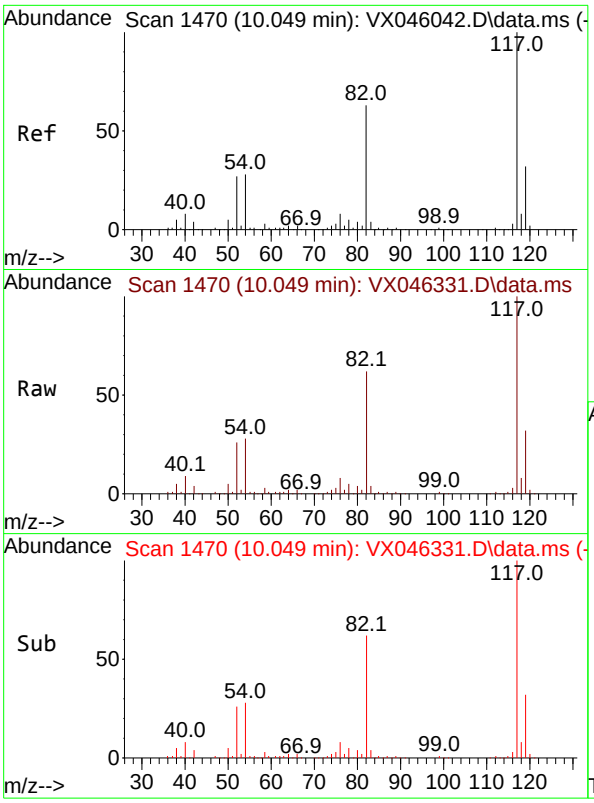


#62
4-Bromofluorobenzene
Concen: 53.716 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 95 Resp: 79568

Ion	Ratio	Lower	Upper
95	100		
174	67.3	0.0	135.8
176	64.6	0.0	131.4



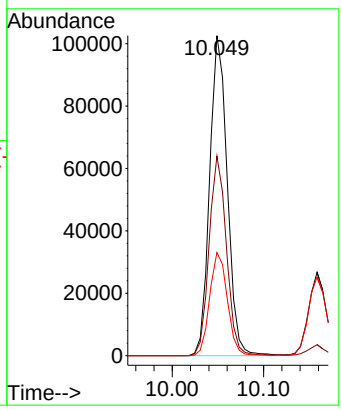


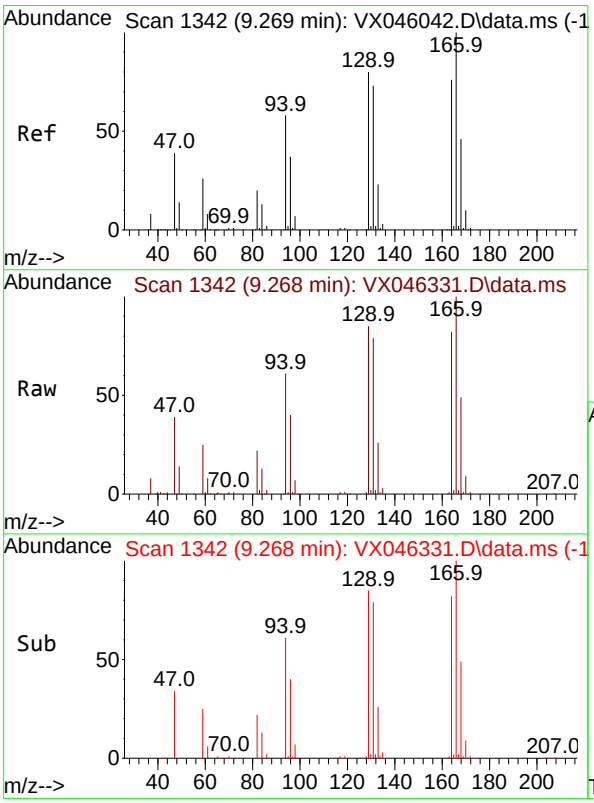
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:117 Resp: 137123

Ion	Ratio	Lower	Upper
117	100		
82	62.4	50.6	76.0
119	32.2	25.8	38.6

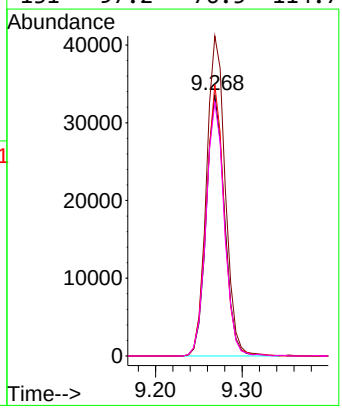


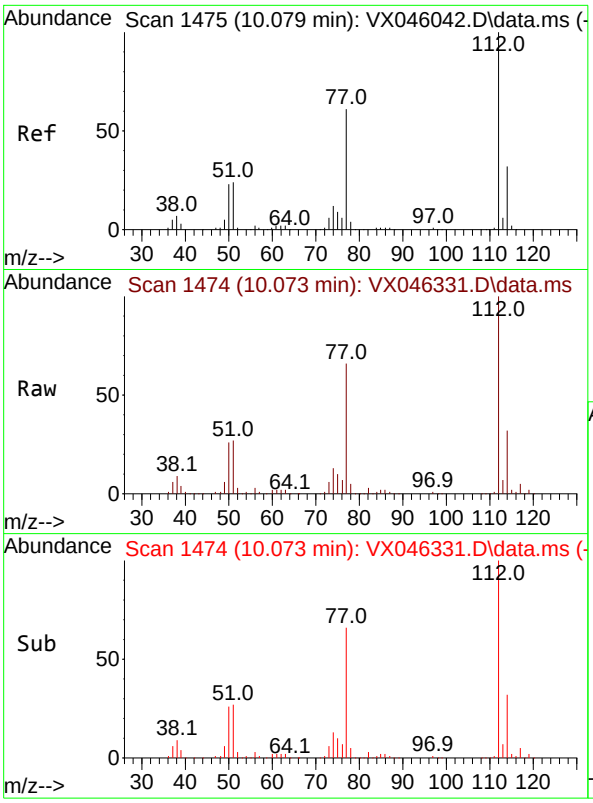


#64
Tetrachloroethene
Concen: 50.481 ug/l
RT: 9.268 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion:164 Resp: 48977

Ion	Ratio	Lower	Upper
164	100		
166	122.6	105.0	157.6
129	103.9	83.5	125.3
131	97.2	76.5	114.7



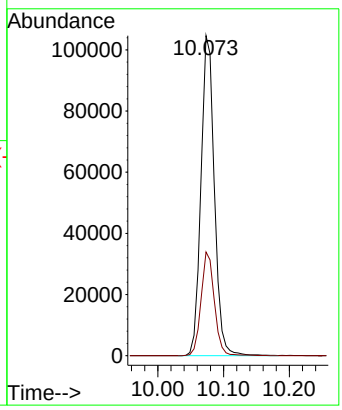


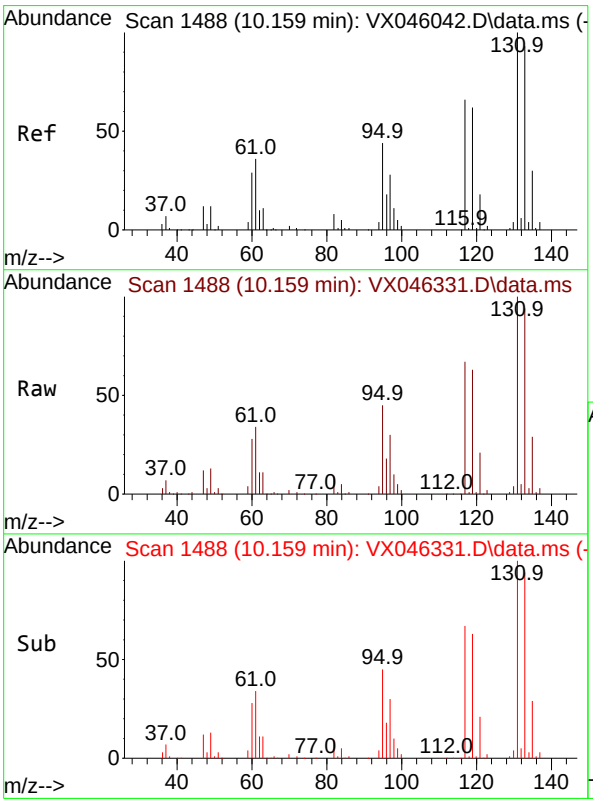
#65
Chlorobenzene
Concen: 49.525 ug/l
RT: 10.073 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:112 Resp: 148639

Ion	Ratio	Lower	Upper
112	100		
114	32.4	25.4	38.2

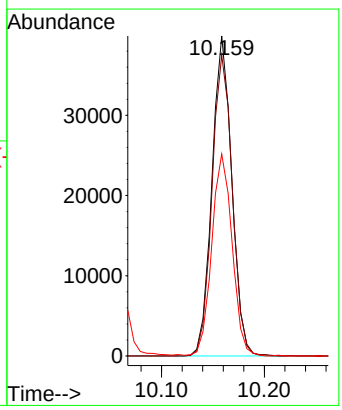


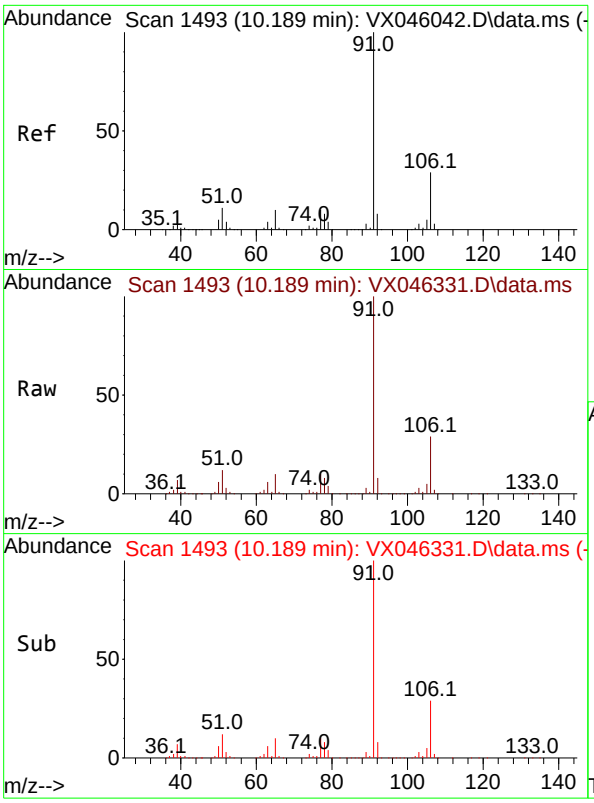


#66
1,1,1,2-Tetrachloroethane
Concen: 52.010 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion:131 Resp: 53302

Ion	Ratio	Lower	Upper
131	100		
133	96.3	47.3	141.9
119	64.8	31.6	95.0



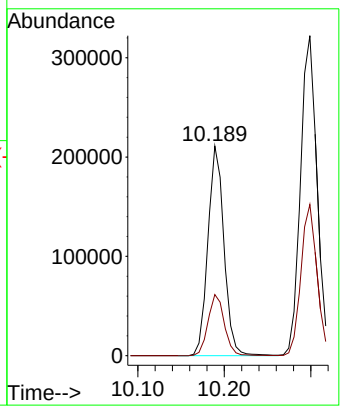


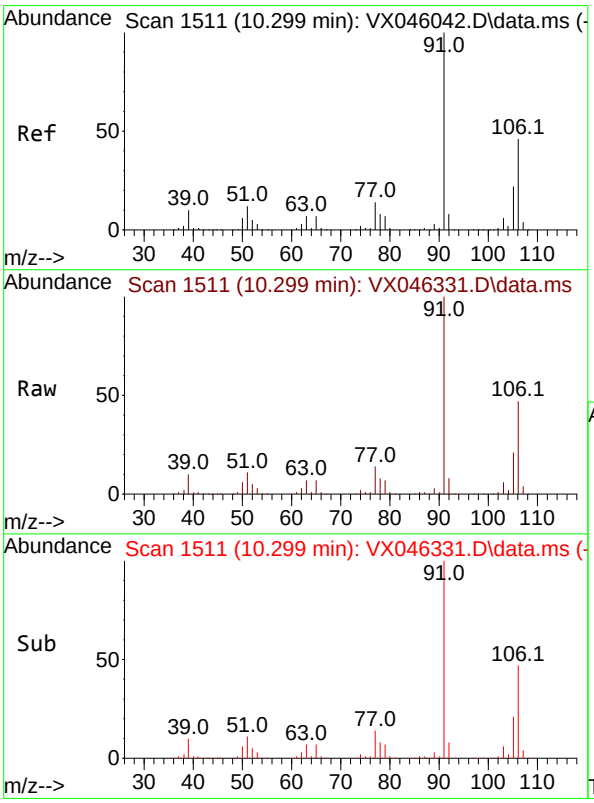
#67
Ethyl Benzene
Concen: 51.457 ug/l
RT: 10.189 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 272231

Ion	Ratio	Lower	Upper
91	100		
106	29.2	23.4	35.2

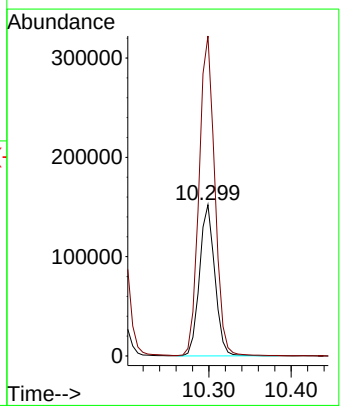


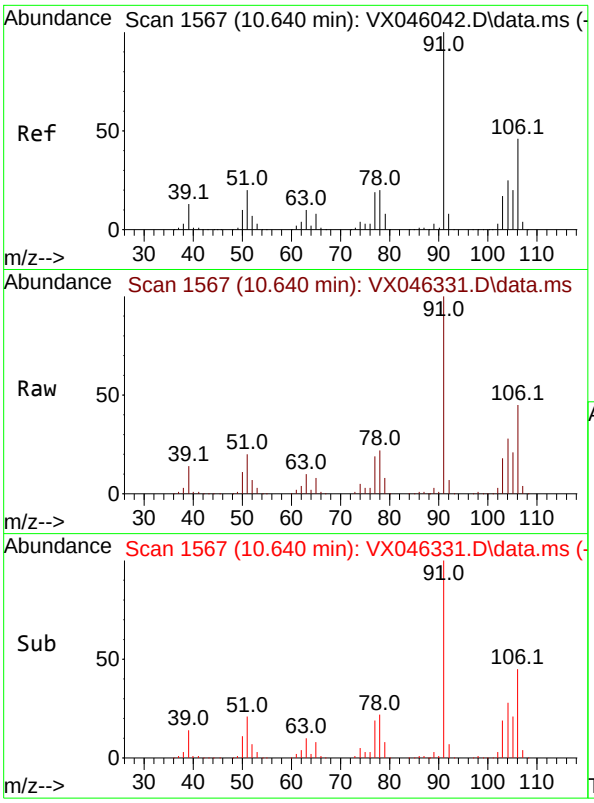


#68
m/p-Xylenes
Concen: 101.954 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion:106 Resp: 197275

Ion	Ratio	Lower	Upper
106	100		
91	217.8	171.2	256.8



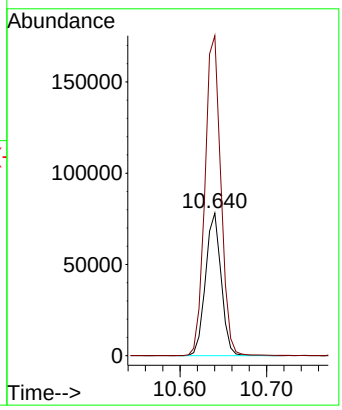


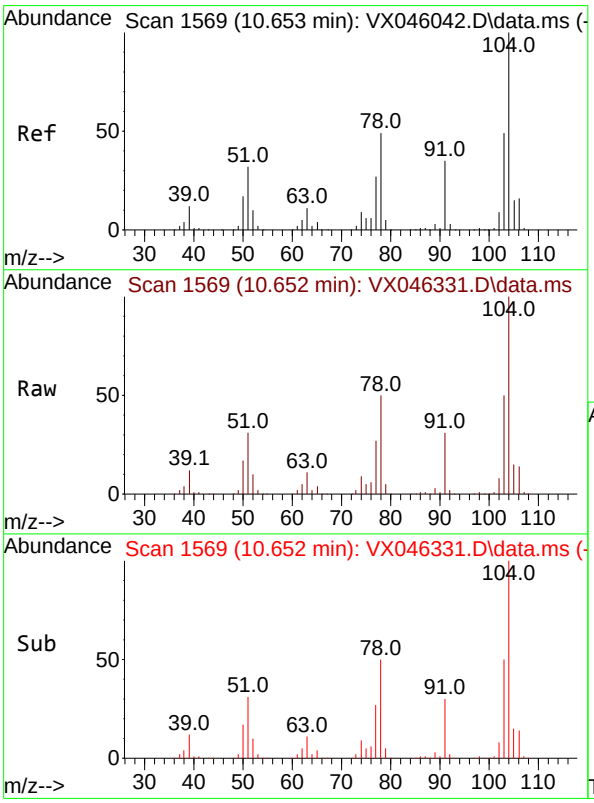
#69
o-Xylene
Concen: 51.899 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:106 Resp: 97901

Ion	Ratio	Lower	Upper
106	100		
91	229.1	112.7	338.1

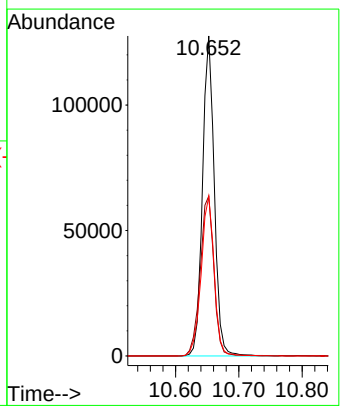


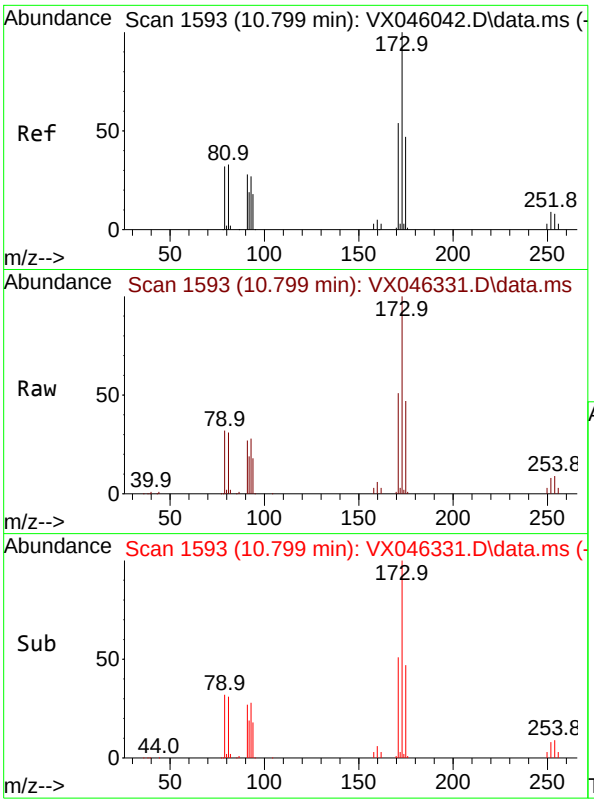


#70
Styrene
Concen: 53.599 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion:104 Resp: 165627

Ion	Ratio	Lower	Upper
104	100		
78	58.1	45.7	68.5
103	55.3	43.7	65.5



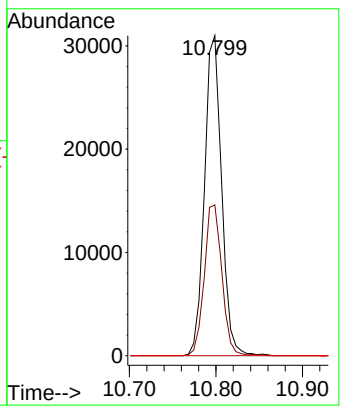


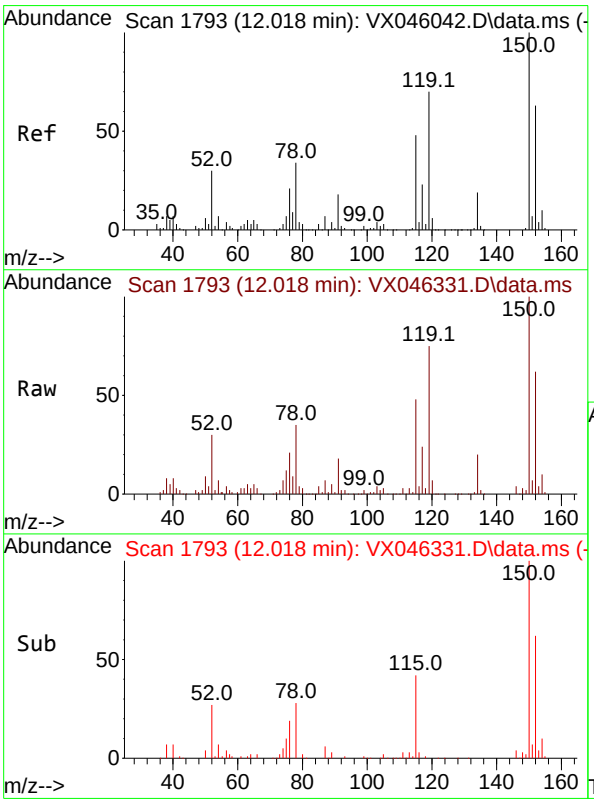
#71
Bromoform
Concen: 55.224 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:173 Resp: 42491

Ion	Ratio	Lower	Upper
173	100		
175	48.6	23.4	70.0
254	0.0	0.0	0.0

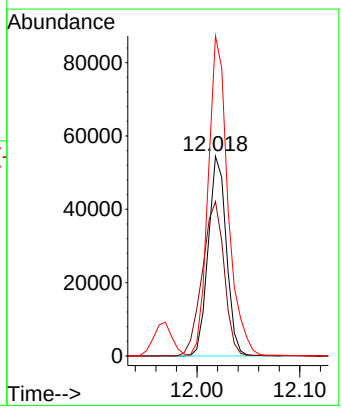


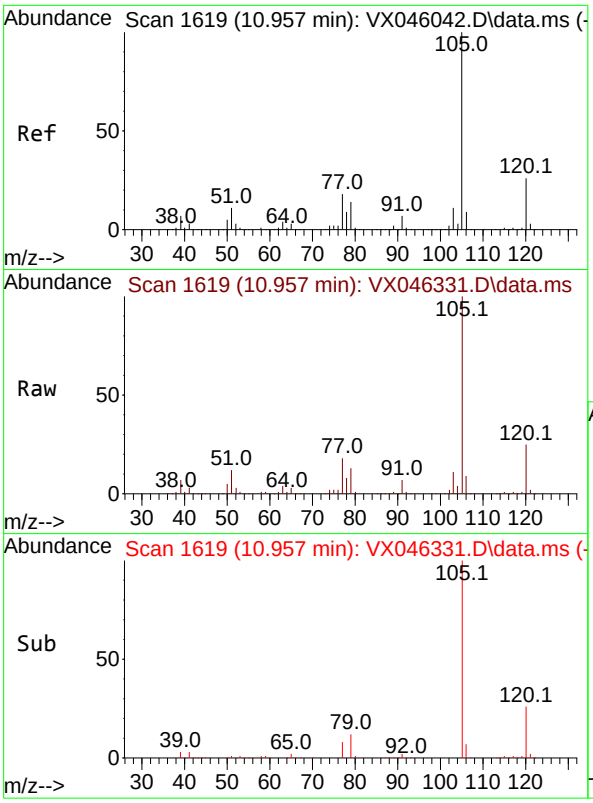


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion:152 Resp: 66629

Ion	Ratio	Lower	Upper
152	100		
115	93.5	46.9	140.7
150	175.2	0.0	351.0



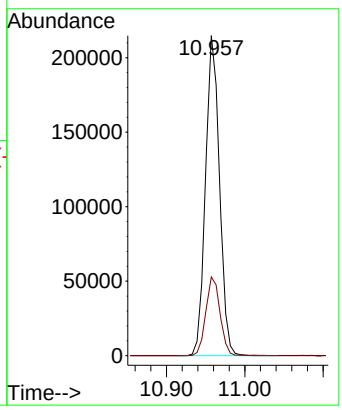


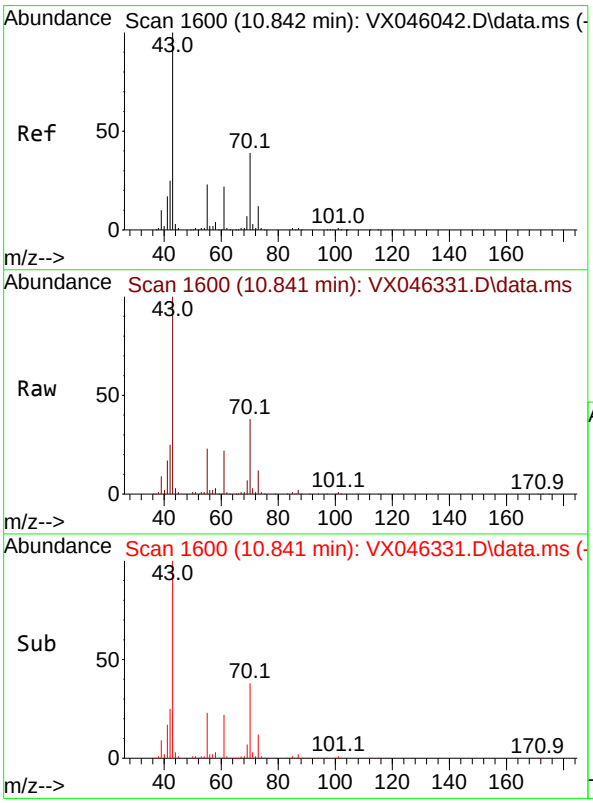
#73
Isopropylbenzene
Concen: 51.196 ug/l
RT: 10.957 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 265569

Ion	Ratio	Lower	Upper
105	100		
120	25.0	12.8	38.4

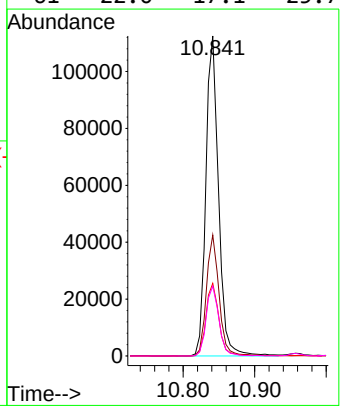


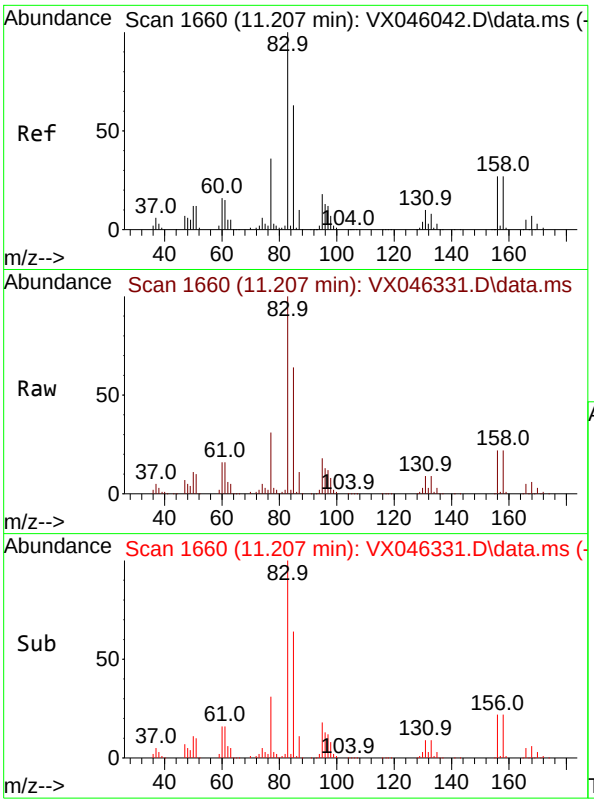


#74
N-amyl acetate
Concen: 54.091 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 43 Resp: 138648

Ion	Ratio	Lower	Upper
43	100		
70	37.7	30.9	46.3
55	23.4	18.7	28.1
61	22.0	17.1	25.7



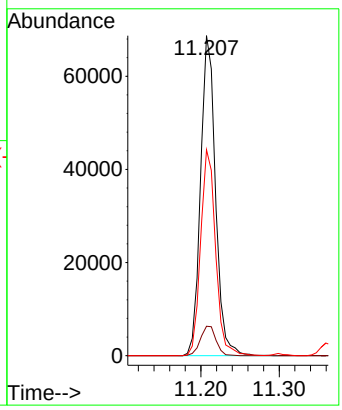


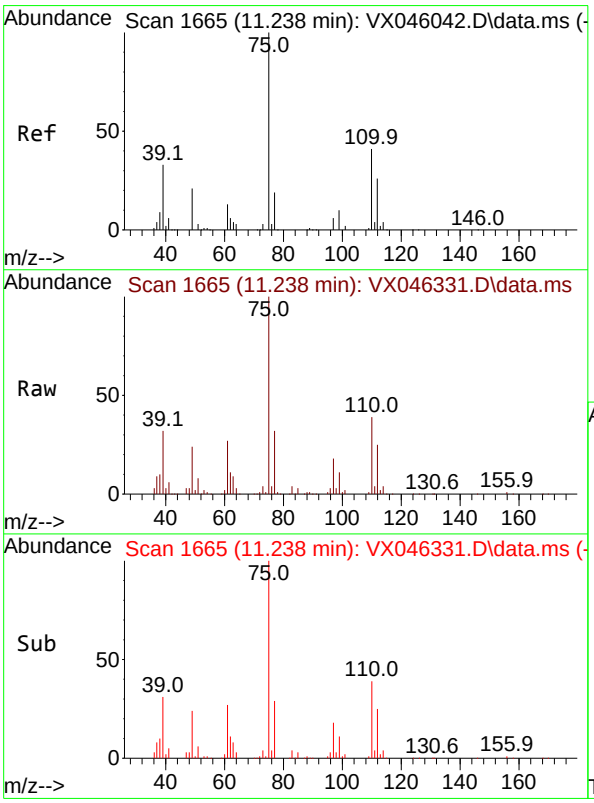
#75
1,1,2,2-Tetrachloroethane
Concen: 50.066 ug/l
RT: 11.207 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 91010

Ion	Ratio	Lower	Upper
83	100		
131	9.6	5.0	14.9
85	64.5	31.9	95.7

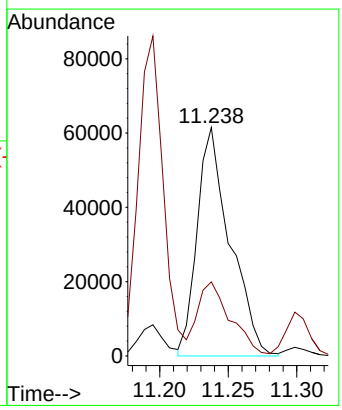


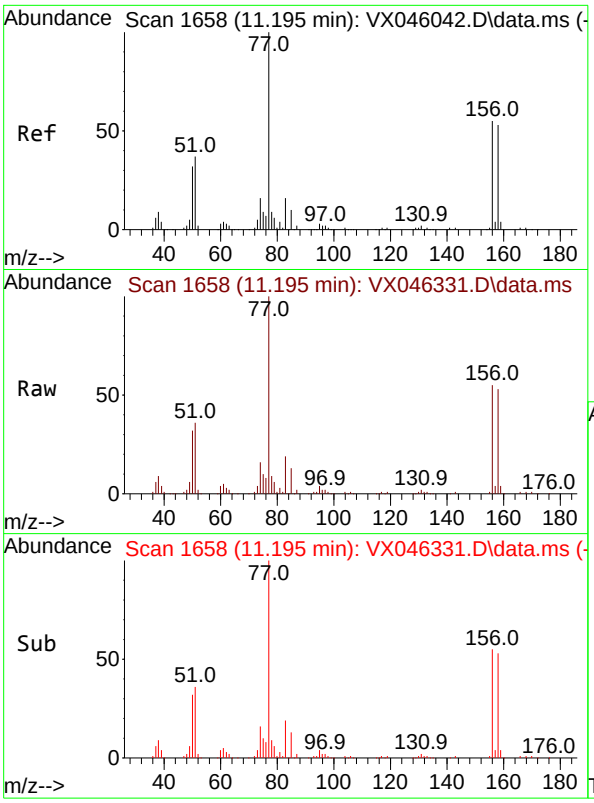


#76
1,2,3-Trichloropropane
Concen: 64.234 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 75 Resp: 103018

Ion	Ratio	Lower	Upper
75	100		
77	32.4	20.5	61.5



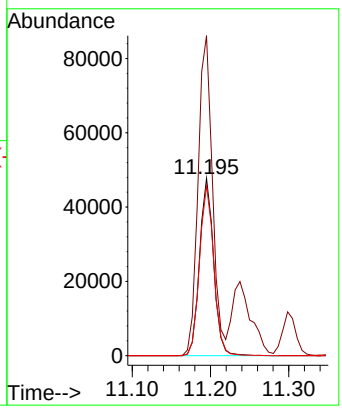


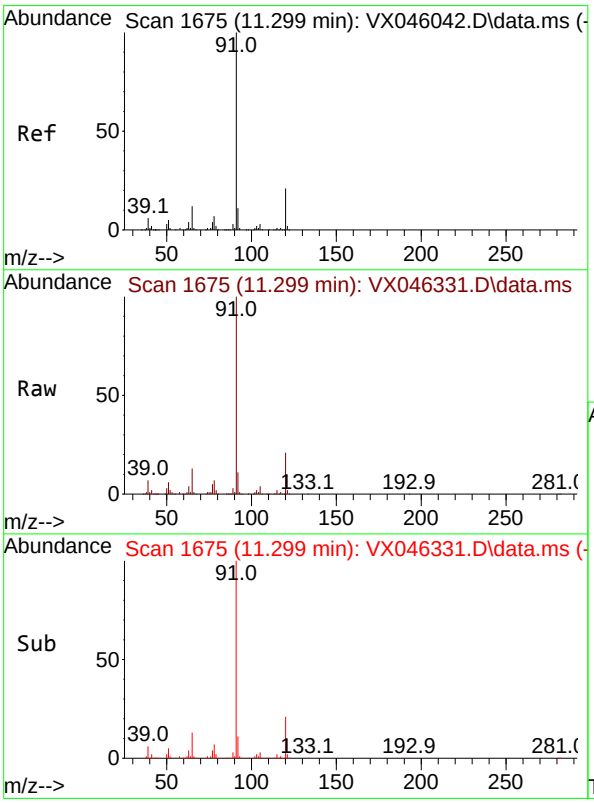
#77
Bromobenzene
Concen: 49.441 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:156 Resp: 59541

Ion	Ratio	Lower	Upper
156	100		
77	185.1	92.8	278.3
158	97.2	48.8	146.3

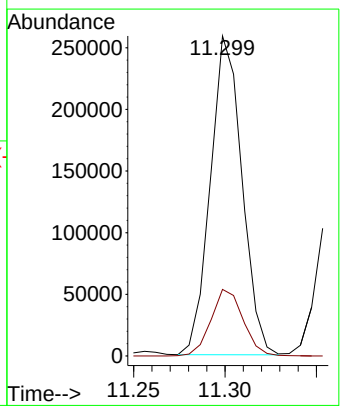


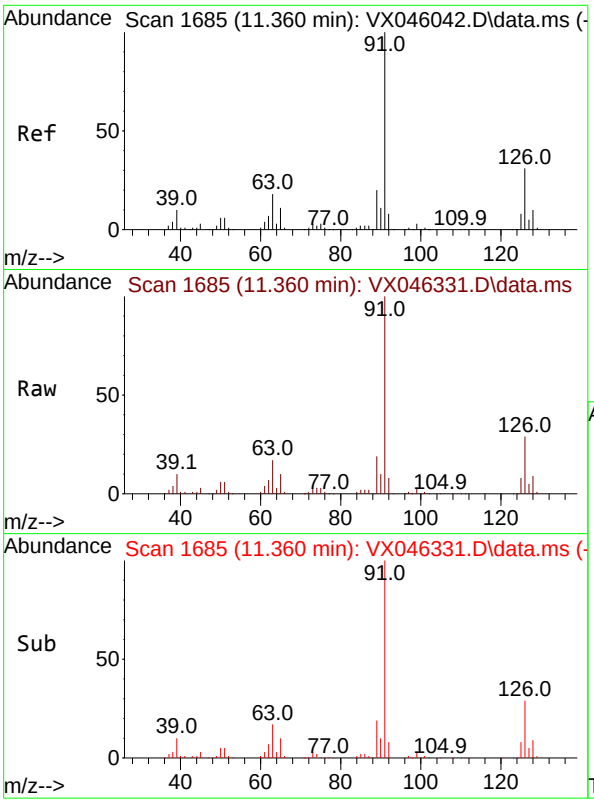


#78
n-propylbenzene
Concen: 51.673 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 91 Resp: 311660

Ion	Ratio	Lower	Upper
91	100		
120	21.2	10.8	32.4



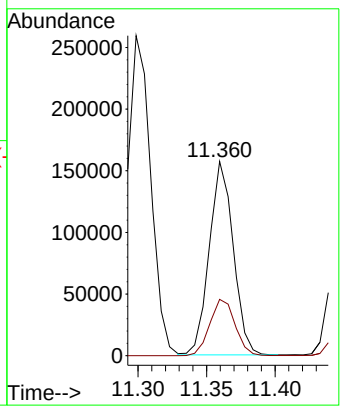


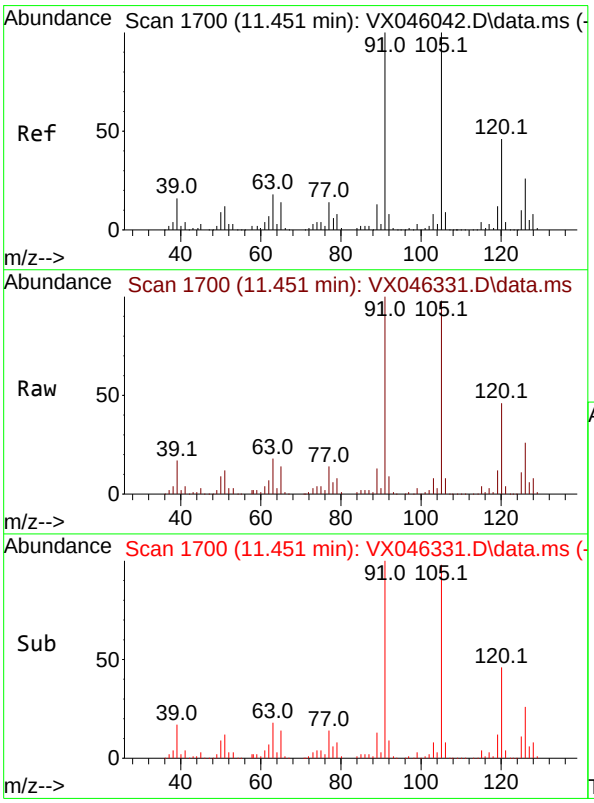
#79
2-Chlorotoluene
Concen: 49.128 ug/l
RT: 11.360 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 191122

Ion	Ratio	Lower	Upper
91	100		
126	30.8	15.6	46.7

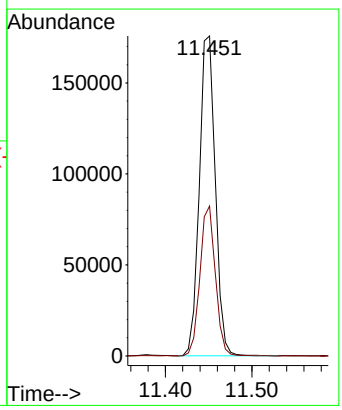


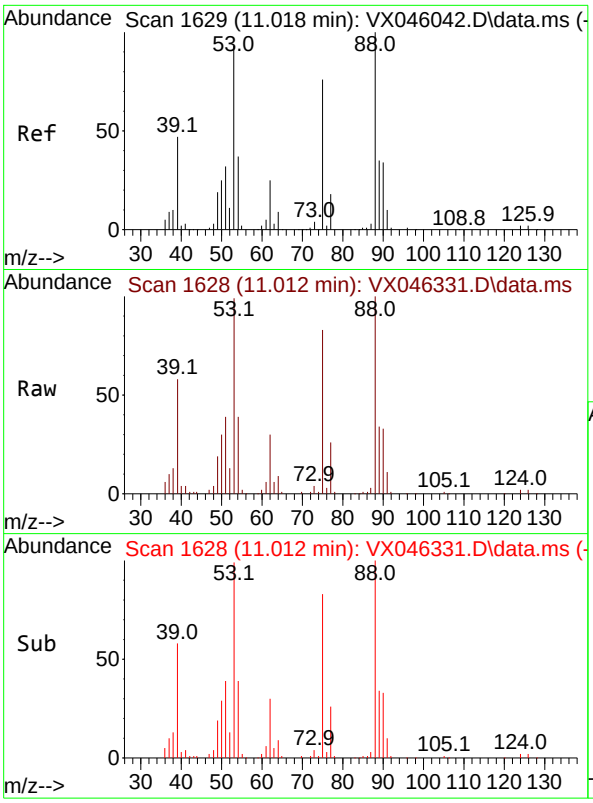


#80
1,3,5-Trimethylbenzene
Concen: 51.877 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion:105 Resp: 224812

Ion	Ratio	Lower	Upper
105	100		
120	45.4	23.1	69.2



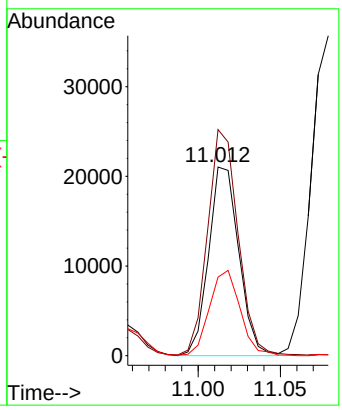


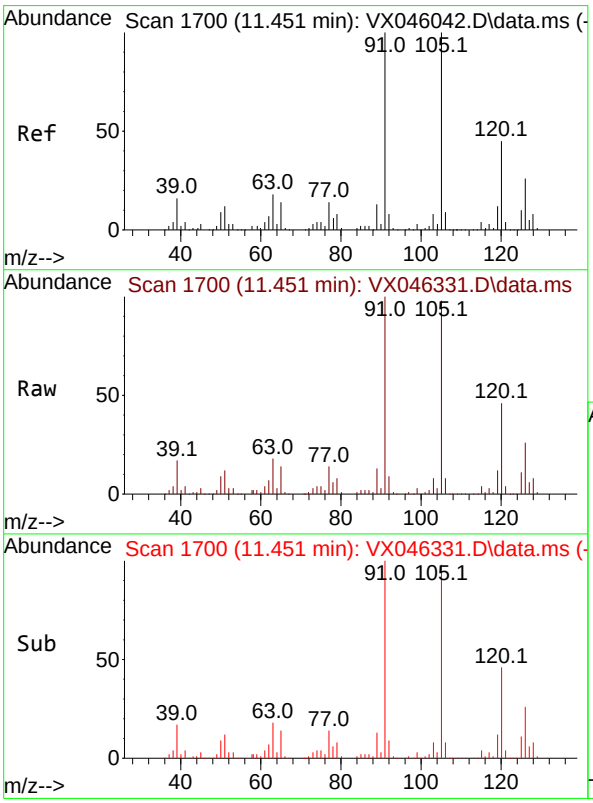
#81
trans-1,4-Dichloro-2-butene
Concen: 54.814 ug/l
RT: 11.012 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 27002

Ion	Ratio	Lower	Upper
75	100		
53	121.3	100.5	150.7
89	45.7	37.0	55.6

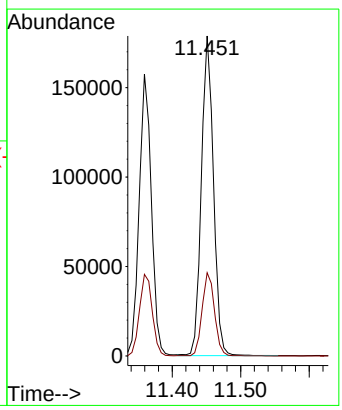


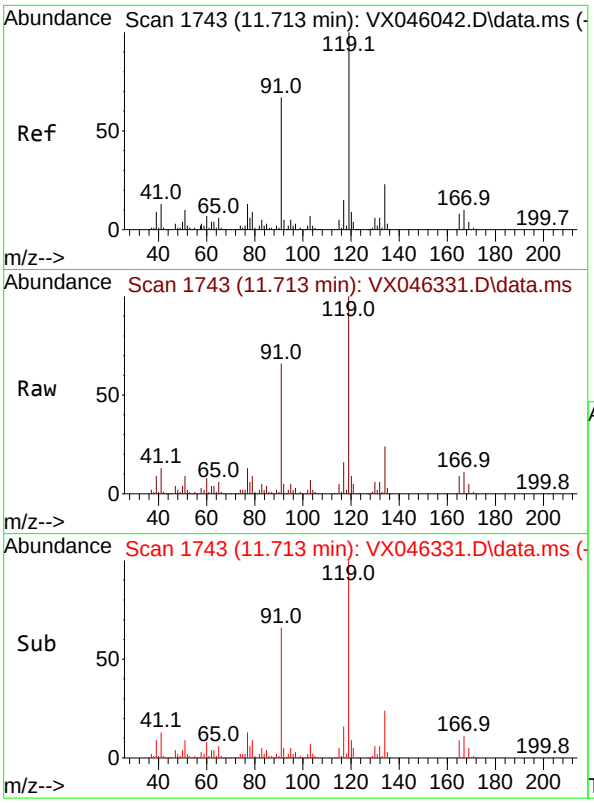


#82
4-Chlorotoluene
Concen: 50.910 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 91 Resp: 219638

Ion	Ratio	Lower	Upper
91	100		
126	26.8	13.3	39.8



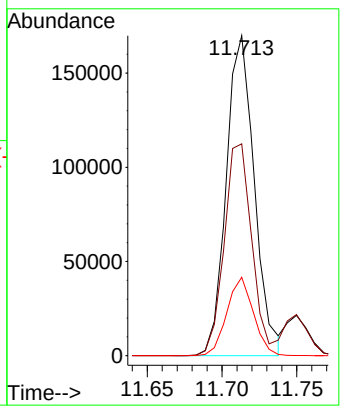


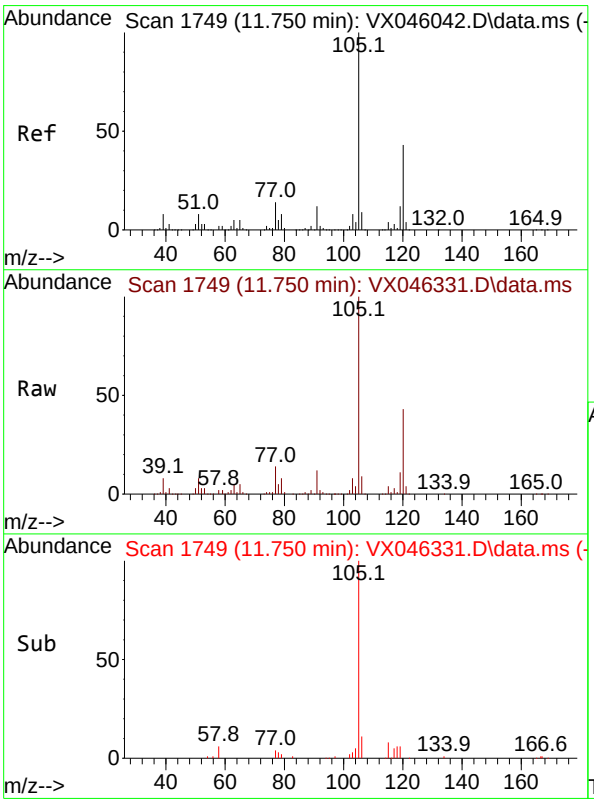
#83
tert-Butylbenzene
Concen: 50.888 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:119 Resp: 222135

Ion	Ratio	Lower	Upper
119	100		
91	64.6	32.9	98.7
134	23.1	11.4	34.1

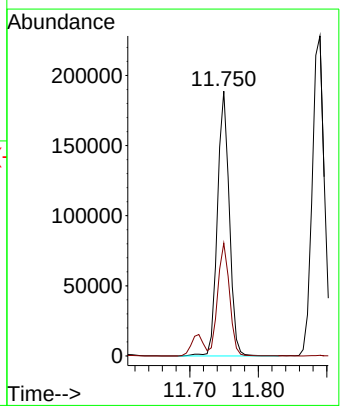


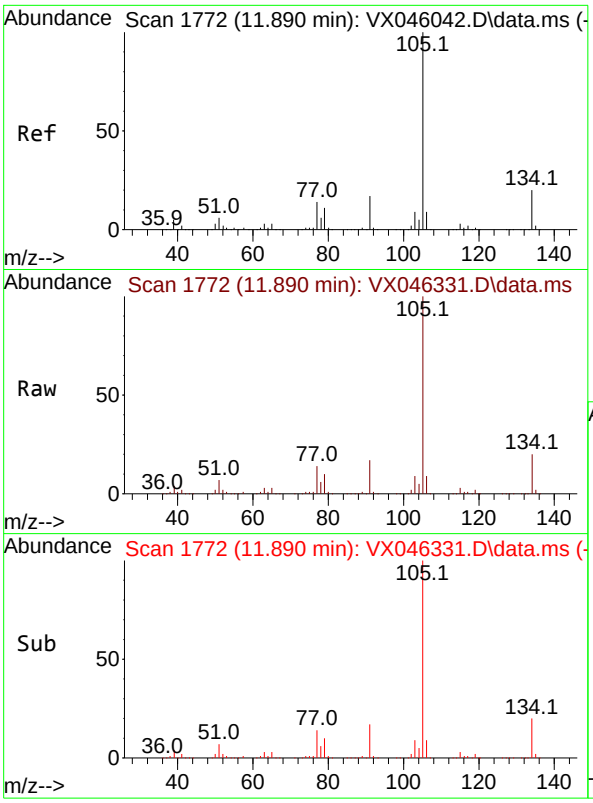


#84
1,2,4-Trimethylbenzene
Concen: 51.438 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion:105 Resp: 225740

Ion	Ratio	Lower	Upper
105	100		
120	42.4	21.2	63.6



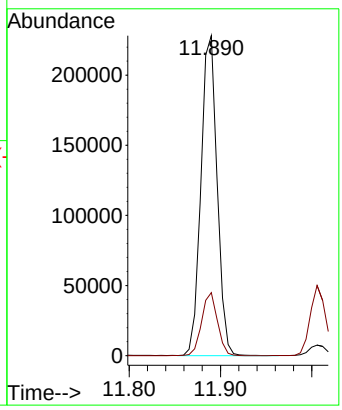


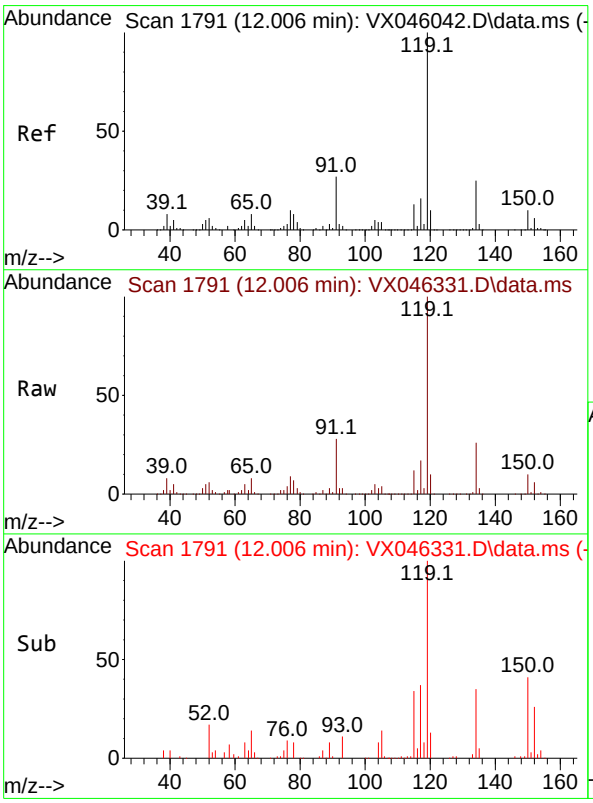
#85
sec-Butylbenzene
Concen: 52.265 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 280123

Ion	Ratio	Lower	Upper
105	100		
134	19.2	9.7	29.1

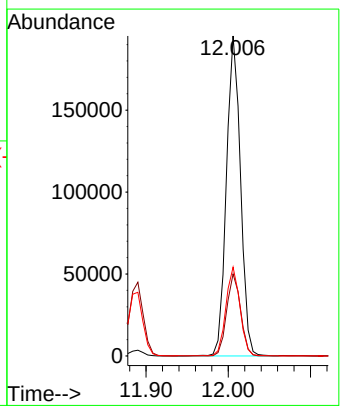


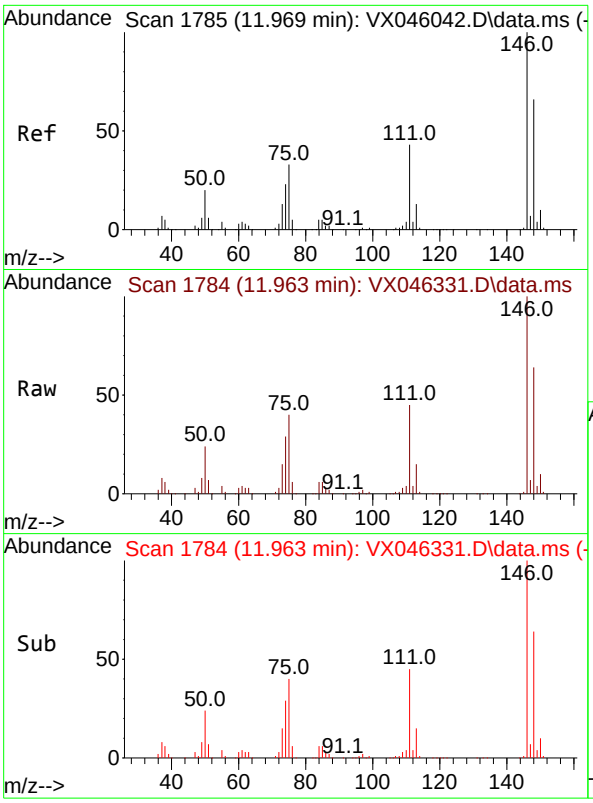


#86
p-Isopropyltoluene
Concen: 52.479 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion:119 Resp: 232168

Ion	Ratio	Lower	Upper
119	100		
134	25.3	12.5	37.5
91	27.5	13.8	41.4



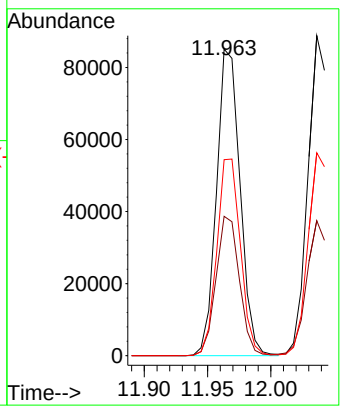


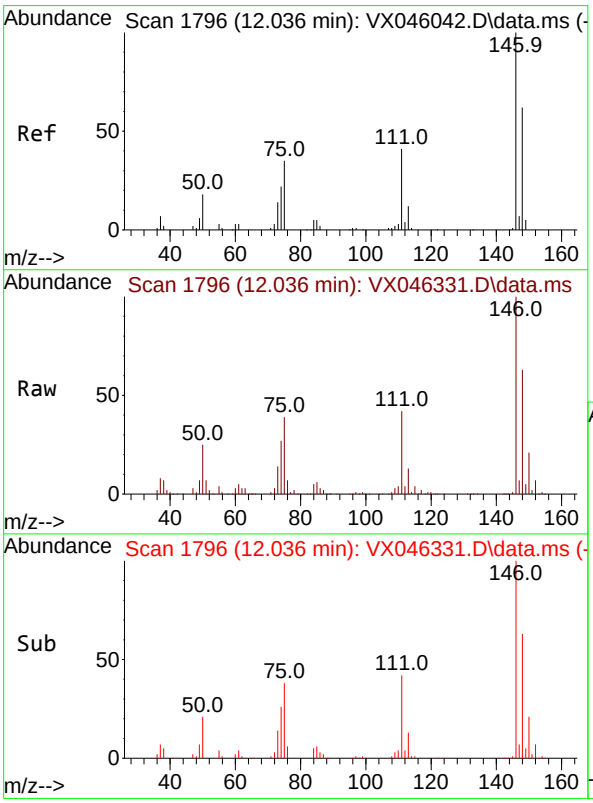
#87
1,3-Dichlorobenzene
Concen: 50.025 ug/l
RT: 11.963 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:146 Resp: 109948

Ion	Ratio	Lower	Upper
146	100		
111	45.2	22.1	66.3
148	64.2	32.1	96.5

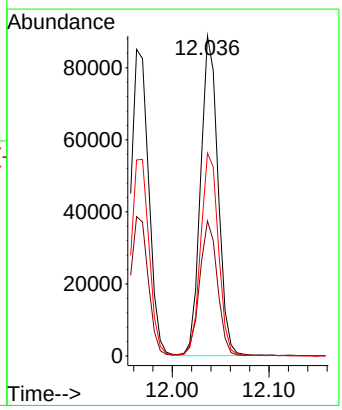


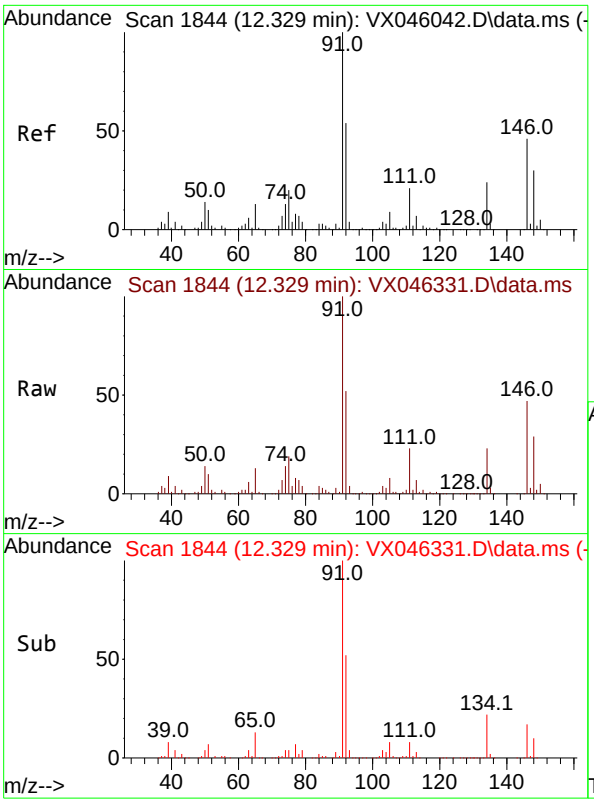


#88
1,4-Dichlorobenzene
Concen: 49.641 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion:146 Resp: 111425

Ion	Ratio	Lower	Upper
146	100		
111	43.0	21.3	63.9
148	64.9	31.9	95.5



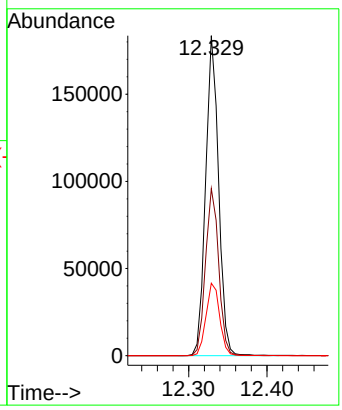


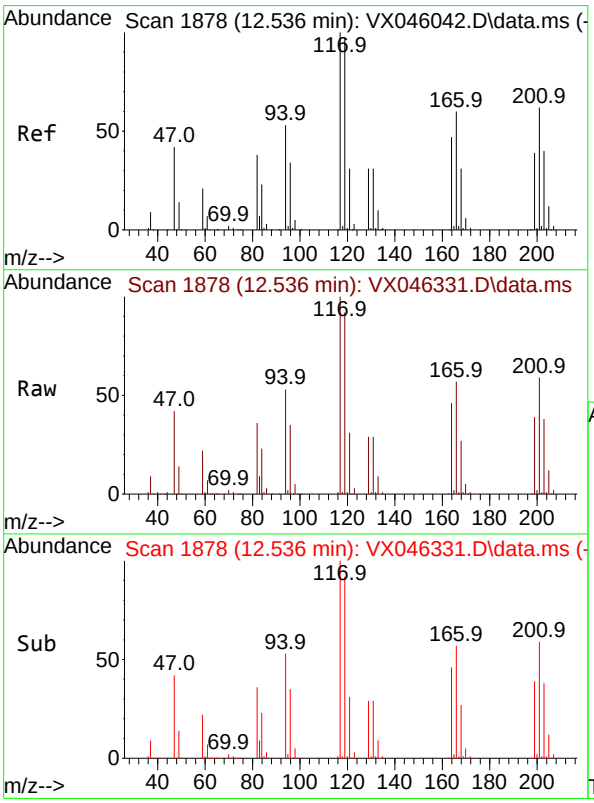
#89
n-Butylbenzene
Concen: 54.179 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 210250

Ion	Ratio	Lower	Upper
91	100		
92	53.3	26.9	80.7
134	23.9	11.8	35.3

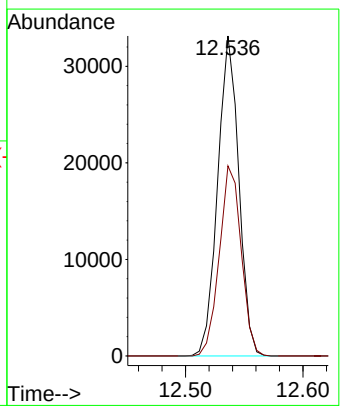


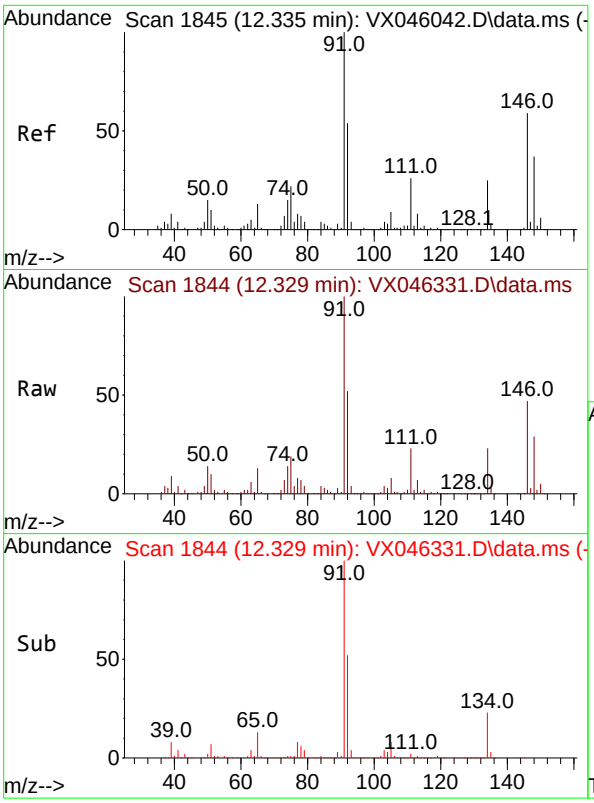


#90
Hexachloroethane
Concen: 53.122 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion:117 Resp: 41404

Ion	Ratio	Lower	Upper
117	100		
201	61.6	31.6	94.7



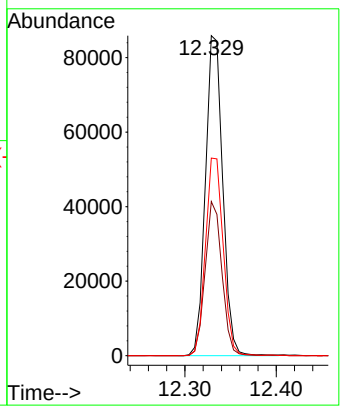


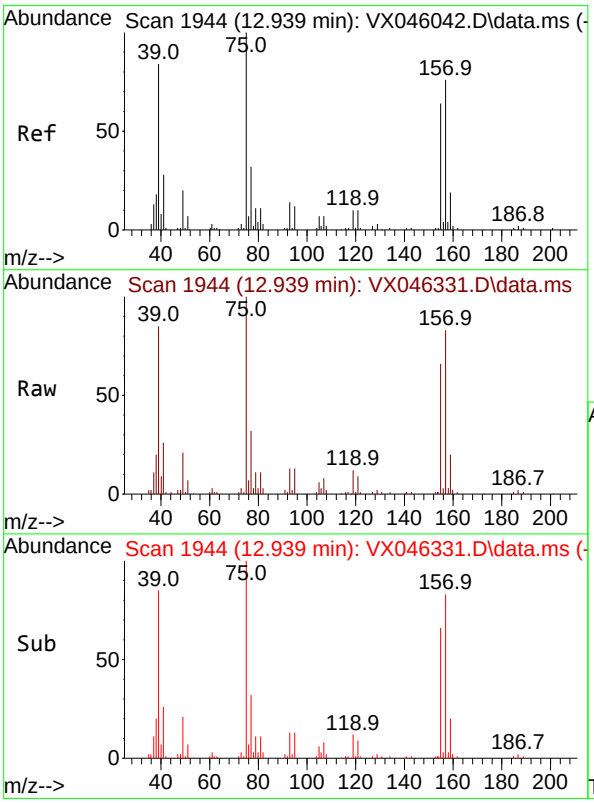
#91
1,2-Dichlorobenzene
Concen: 51.002 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:146 Resp: 112487

Ion	Ratio	Lower	Upper
146	100		
111	46.8	22.4	67.3
148	63.4	31.6	94.8

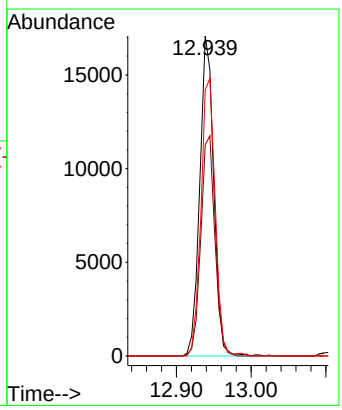


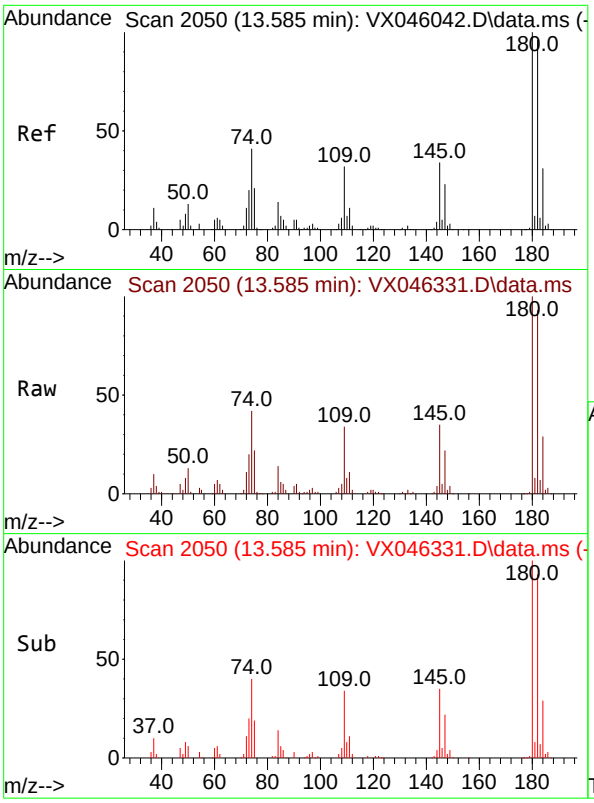


#92
1,2-Dibromo-3-Chloropropane
Concen: 55.085 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion: 75 Resp: 22183

Ion	Ratio	Lower	Upper
75	100		
155	69.3	34.9	104.8
157	88.3	43.8	131.4



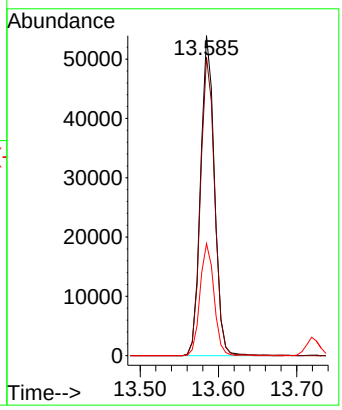


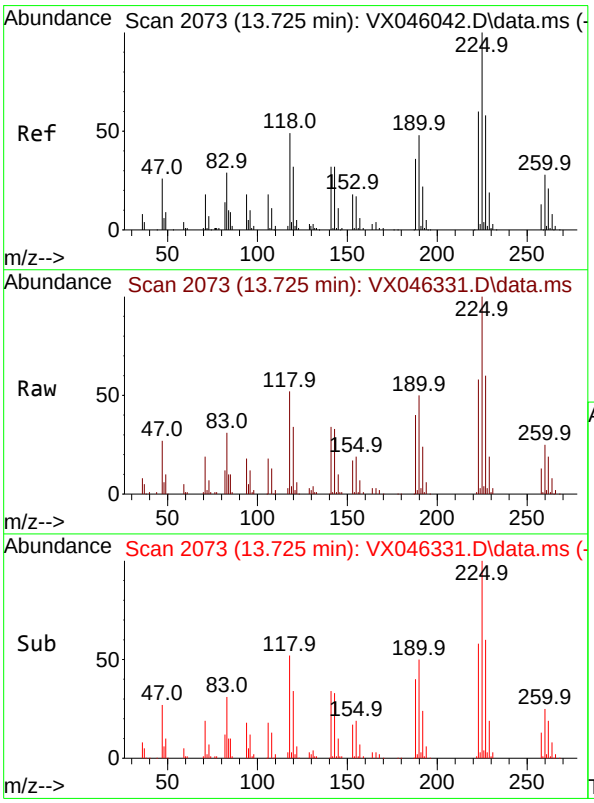
#93
1,2,4-Trichlorobenzene
Concen: 52.307 ug/l
RT: 13.585 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:180 Resp: 66261

Ion	Ratio	Lower	Upper
180	100		
182	95.3	47.9	143.8
145	35.3	17.1	51.2

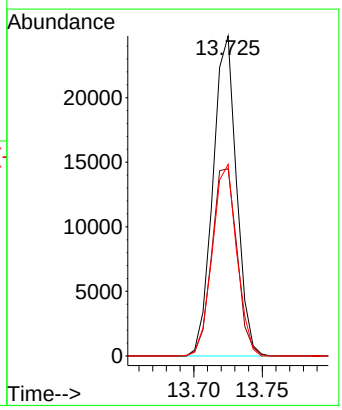


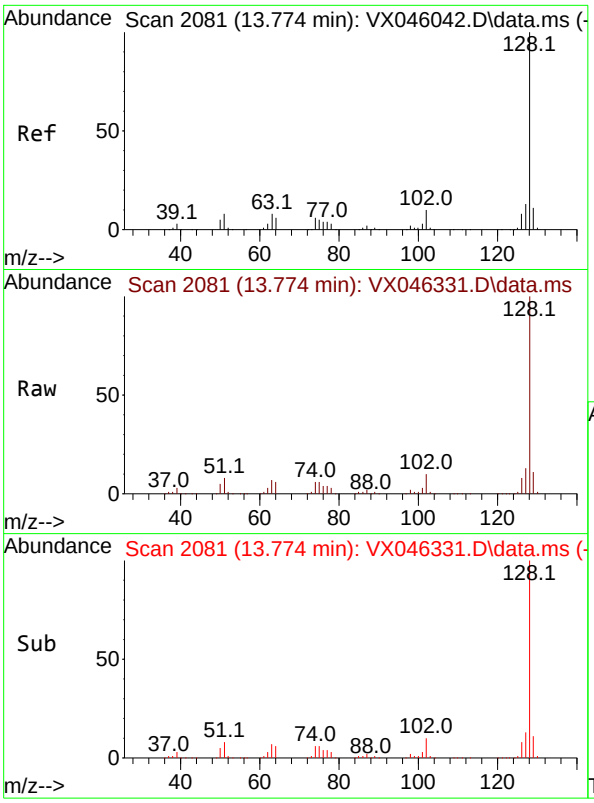


#94
Hexachlorobutadiene
Concen: 53.637 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion:225 Resp: 29675

Ion	Ratio	Lower	Upper
225	100		
223	62.4	30.8	92.4
227	61.8	30.9	92.7



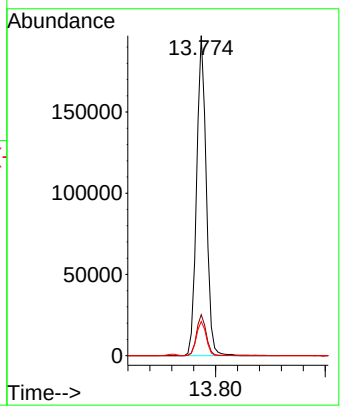


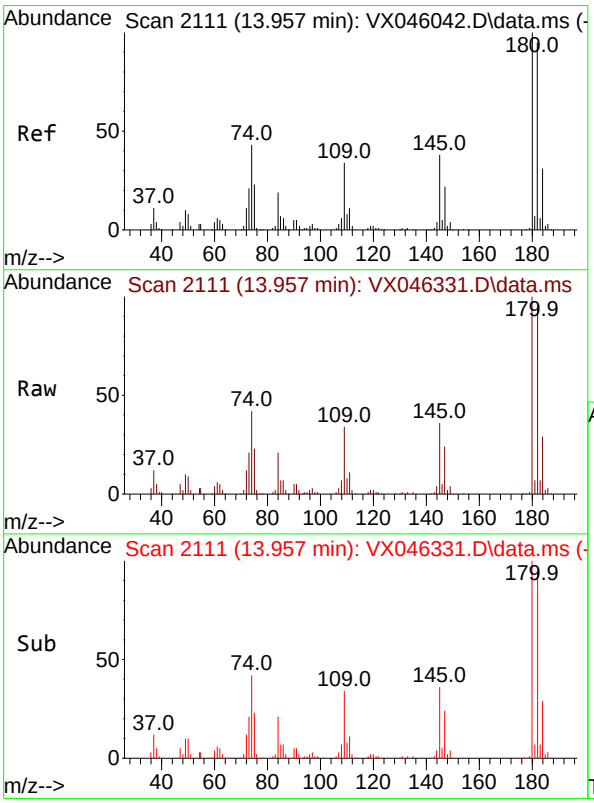
#95
Naphthalene
Concen: 52.127 ug/l
RT: 13.774 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:128 Resp: 242188

Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.4	15.6
129	10.9	8.6	13.0

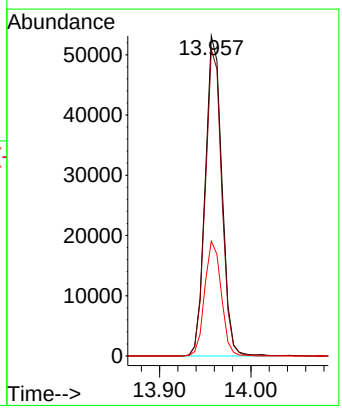




#96
1,2,3-Trichlorobenzene
Concen: 51.275 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VX046331.D
Acq: 23 May 2025 09:24

Tgt Ion:180 Resp: 67021

Ion	Ratio	Lower	Upper
180	100		
182	95.0	47.8	143.3
145	35.5	18.1	54.3



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046334.D
Acq On : 23 May 2025 10:57
Operator : JC/MD
Sample : VX0523WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

Quant Time: May 23 22:57:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	88801	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	154286	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	135355	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	65596	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	83672	50.541	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 101.080%			
35) Dibromofluoromethane	5.379	113	58176	52.363	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.720%			
50) Toluene-d8	8.641	98	194812	50.661	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.320%			
62) 4-Bromofluorobenzene	11.079	95	75851	51.423	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 102.840%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	26885	19.781	ug/l	99
3) Chloromethane	1.307	50	24599	18.663	ug/l	98
4) Vinyl Chloride	1.374	62	21875	17.833	ug/l	99
5) Bromomethane	1.599	94	10427	18.326	ug/l	95
6) Chloroethane	1.672	64	12552	19.167	ug/l	95
7) Trichlorofluoromethane	1.880	101	36086	19.905	ug/l	98
8) Diethyl Ether	2.130	74	11857	19.212	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.319	101	22550	20.099	ug/l	99
10) Methyl Iodide	2.447	142	23690	17.845	ug/l	97
11) Tert butyl alcohol	2.965	59	24727	106.404	ug/l	100
12) 1,1-Dichloroethene	2.312	96	20358	19.334	ug/l	98
13) Acrolein	2.233	56	22886	86.476	ug/l	99
14) Allyl chloride	2.654	41	40722	20.236	ug/l	98
15) Acrylonitrile	3.056	53	69823	105.077	ug/l	98
16) Acetone	2.380	43	66843	100.699	ug/l	100
17) Carbon Disulfide	2.508	76	38442	15.399	ug/l	97
18) Methyl Acetate	2.703	43	37888	24.597	ug/l	100
19) Methyl tert-butyl Ether	3.111	73	76286	20.665	ug/l	98
20) Methylene Chloride	2.782	84	23645	18.588	ug/l	98
21) trans-1,2-Dichloroethene	3.087	96	20167	19.045	ug/l	97
22) Diisopropyl ether	3.751	45	81936	21.078	ug/l #	82
23) Vinyl Acetate	3.715	43	344264	100.693	ug/l	100
24) 1,1-Dichloroethane	3.605	63	43994	20.320	ug/l	98
25) 2-Butanone	4.550	43	101247	105.062	ug/l	98
26) 2,2-Dichloropropane	4.471	77	32985	19.464	ug/l	99
27) cis-1,2-Dichloroethene	4.477	96	26053	20.438	ug/l	99
28) Bromochloromethane	4.891	49	23073	22.139	ug/l	95
29) Tetrahydrofuran	5.001	42	64602	106.980	ug/l	98
30) Chloroform	5.086	83	47289	20.955	ug/l	95
31) Cyclohexane	5.458	56	37029	18.768	ug/l	99
32) 1,1,1-Trichloroethane	5.373	97	39986	20.440	ug/l	98
36) 1,1-Dichloropropene	5.684	75	28160	18.864	ug/l	97
37) Ethyl Acetate	4.708	43	37243	20.193	ug/l	100
38) Carbon Tetrachloride	5.665	117	34138	20.354	ug/l	97
39) Methylcyclohexane	7.373	83	35346	18.392	ug/l	95
40) Benzene	6.031	78	88565	20.255	ug/l	99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046334.D
Acq On : 23 May 2025 10:57
Operator : JC/MD
Sample : VX0523WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

Quant Time: May 23 22:57:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.922	41	21949	22.750	ug/l		98
42) 1,2-Dichloroethane	6.080	62	39039	20.687	ug/l		98
43) Isopropyl Acetate	6.336	43	58465	20.779	ug/l		98
44) Trichloroethene	7.116	130	20856	19.818	ug/l		99
45) 1,2-Dichloropropane	7.427	63	22887	21.051	ug/l		95
46) Dibromomethane	7.574	93	17401	20.292	ug/l		99
47) Bromodichloromethane	7.818	83	35210	20.847	ug/l		97
48) Methyl methacrylate	7.690	41	30700	21.365	ug/l		99
49) 1,4-Dioxane	7.659	88	11623	426.008	ug/l		99
51) 4-Methyl-2-Pentanone	8.567	43	204759	109.635	ug/l		98
52) Toluene	8.714	92	54660	20.387	ug/l		98
53) t-1,3-Dichloropropene	8.976	75	29346	19.548	ug/l		99
54) cis-1,3-Dichloropropene	8.360	75	34425	20.748	ug/l		98
55) 1,1,2-Trichloroethane	9.147	97	23071	21.823	ug/l		99
56) Ethyl methacrylate	9.110	69	35941	21.331	ug/l		99
57) 1,3-Dichloropropane	9.305	76	38963	20.522	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.238	63	92851	108.093	ug/l		100
59) 2-Hexanone	9.427	43	150965	109.257	ug/l		98
60) Dibromochloromethane	9.518	129	24359	20.981	ug/l		98
61) 1,2-Dibromoethane	9.604	107	22797	20.748	ug/l		99
64) Tetrachloroethene	9.269	164	19995	20.878	ug/l		94
65) Chlorobenzene	10.073	112	59694	20.149	ug/l		97
66) 1,1,1,2-Tetrachloroethane	10.159	131	20790	20.551	ug/l		99
67) Ethyl Benzene	10.189	91	105906	20.280	ug/l		100
68) m/p-Xylenes	10.299	106	77627	40.642	ug/l		96
69) o-Xylene	10.640	106	38262	20.548	ug/l		96
70) Styrene	10.652	104	63992	20.979	ug/l		98
71) Bromoform	10.799	173	14711	19.369	ug/l	#	97
73) Isopropylbenzene	10.957	105	103395	20.246	ug/l		99
74) N-amyl acetate	10.841	43	50382	19.965	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.207	83	36107	20.176	ug/l		100
76) 1,2,3-Trichloropropane	11.238	75	39072	24.746	ug/l		86
77) Bromobenzene	11.195	156	23688	19.979	ug/l		100
78) n-propylbenzene	11.299	91	120436	20.282	ug/l		99
79) 2-Chlorotoluene	11.360	91	76565	19.991	ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	88181	20.669	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	9236	19.044	ug/l		95
82) 4-Chlorotoluene	11.451	91	86969	20.476	ug/l		99
83) tert-Butylbenzene	11.713	119	86219	20.063	ug/l		99
84) 1,2,4-Trimethylbenzene	11.750	105	88916	20.580	ug/l		100
85) sec-Butylbenzene	11.890	105	108908	20.640	ug/l		99
86) p-Isopropyltoluene	12.006	119	88860	20.402	ug/l		100
87) 1,3-Dichlorobenzene	11.969	146	43379	20.048	ug/l		99
88) 1,4-Dichlorobenzene	12.036	146	43812	19.826	ug/l		98
89) n-Butylbenzene	12.329	91	76398	19.997	ug/l		99
90) Hexachloroethane	12.536	117	14567	18.984	ug/l		99
91) 1,2-Dichlorobenzene	12.335	146	44827	20.645	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	8025	20.242	ug/l		99
93) 1,2,4-Trichlorobenzene	13.585	180	24140	19.356	ug/l		99
94) Hexachlorobutadiene	13.725	225	11016	20.225	ug/l		99
95) Naphthalene	13.774	128	87267	19.079	ug/l		99
96) 1,2,3-Trichlorobenzene	13.963	180	24990	19.420	ug/l		98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046334.D
Acq On : 23 May 2025 10:57
Operator : JC/MD
Sample : VX0523WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

Quant Time: May 23 22:57:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

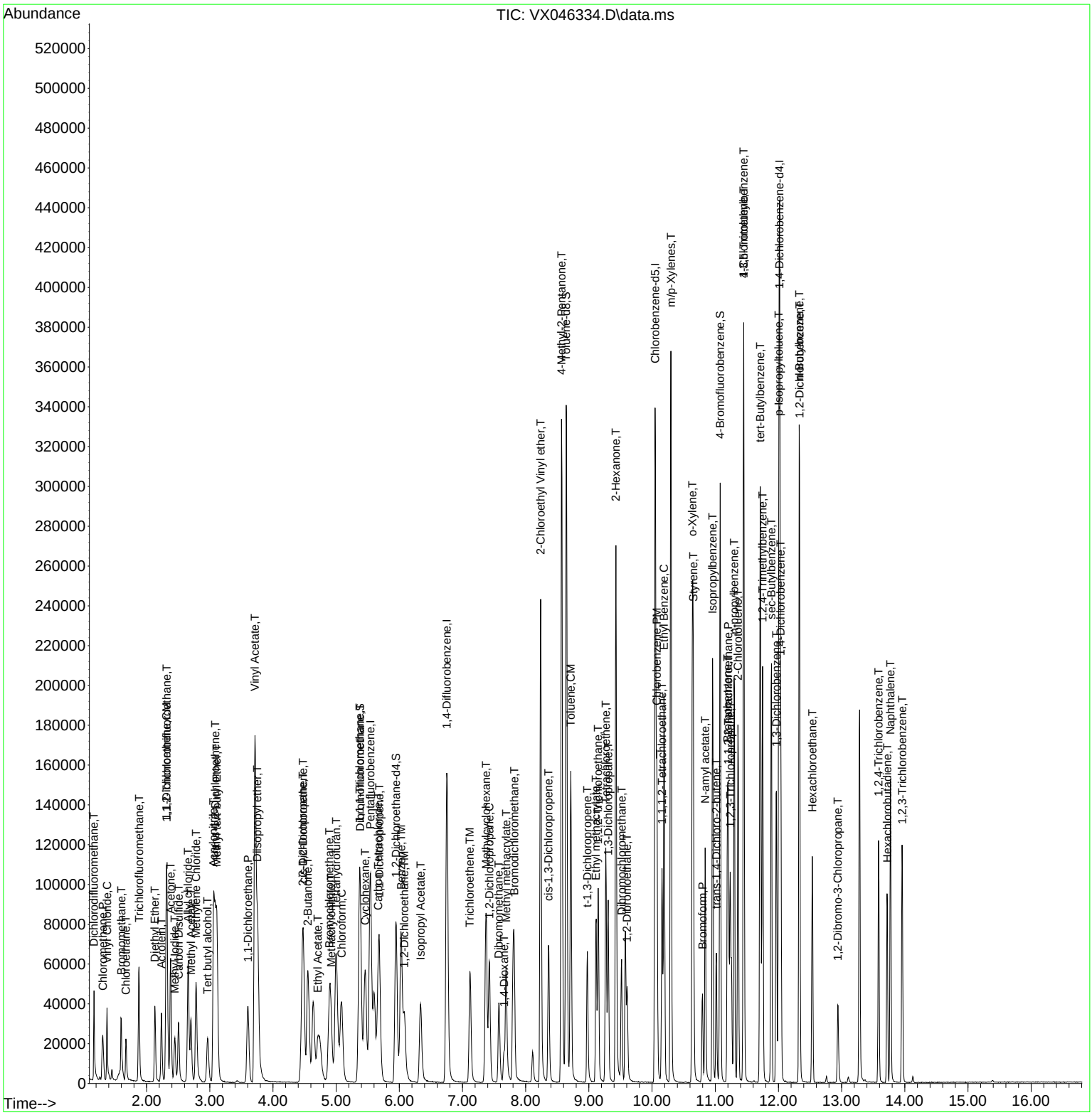
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

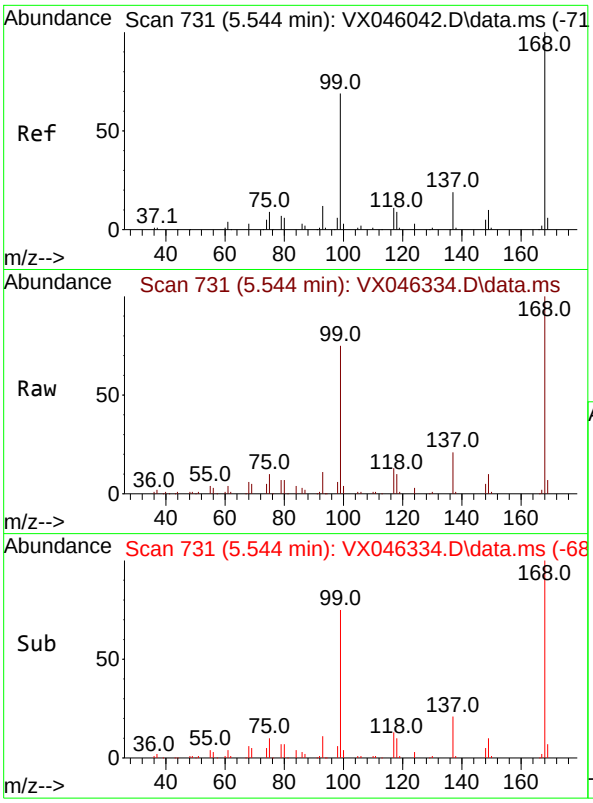
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046334.D
Acq On : 23 May 2025 10:57
Operator : JC/MD
Sample : VX0523WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

Quant Time: May 23 22:57:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration



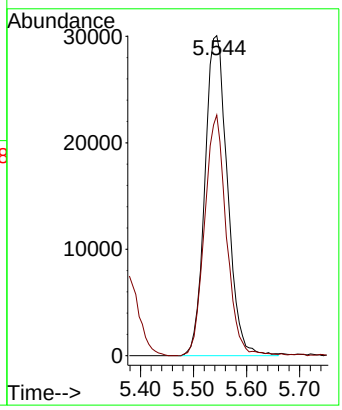


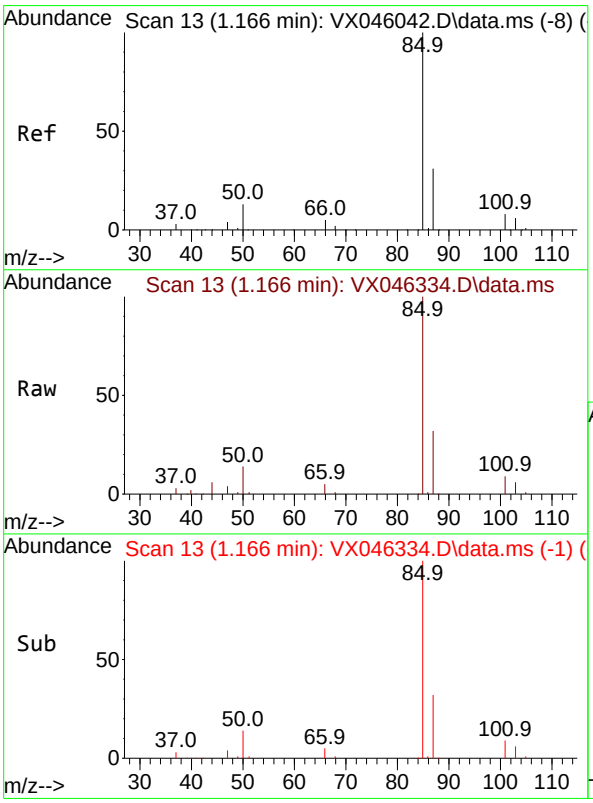
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

Tgt Ion:168 Resp: 88801

Ion	Ratio	Lower	Upper
168	100		
99	75.2	54.9	82.3

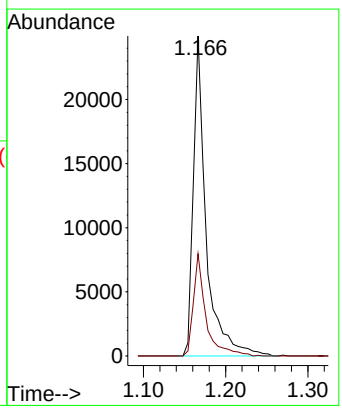


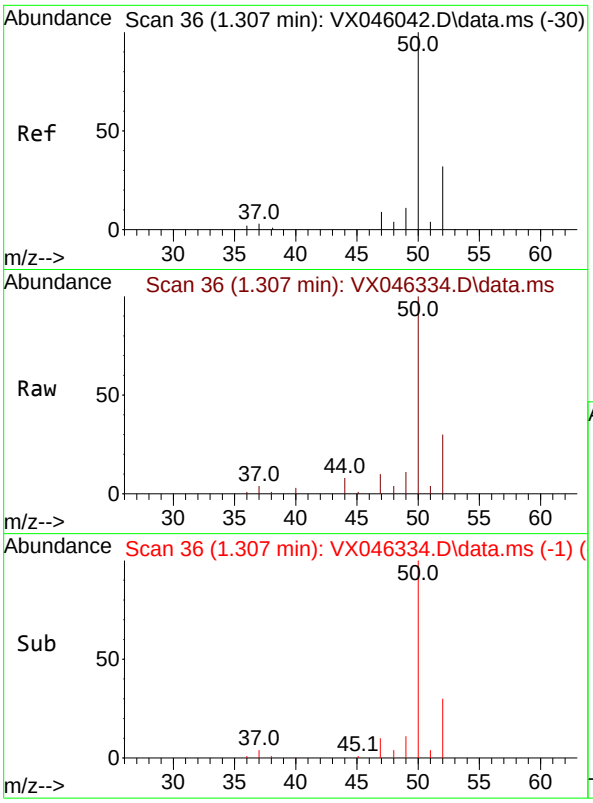


#2
Dichlorodifluoromethane
Concen: 19.781 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 85 Resp: 26885

Ion	Ratio	Lower	Upper
85	100		
87	32.0	15.7	47.1



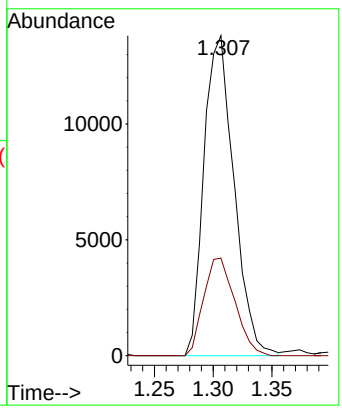


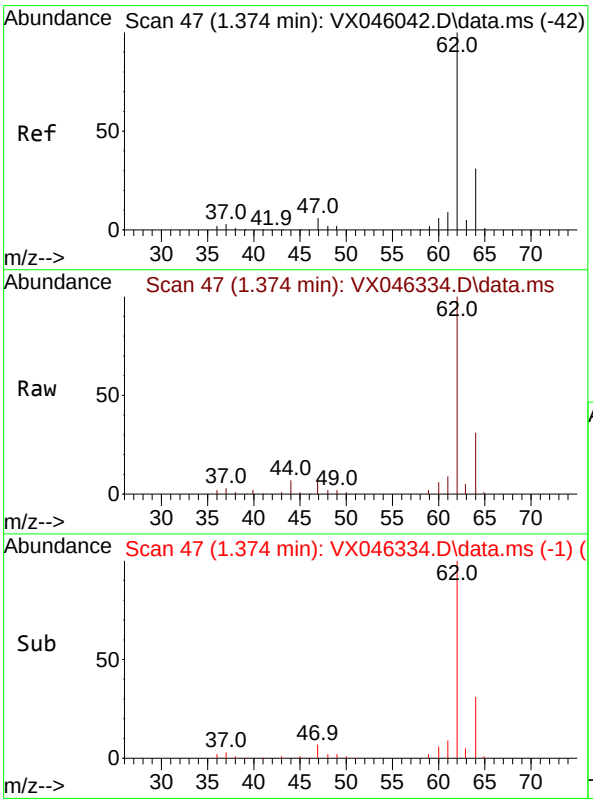
#3
Chloromethane
Concen: 18.663 ug/l
RT: 1.307 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

Tgt Ion: 50 Resp: 24599

Ion	Ratio	Lower	Upper
50	100		
52	30.5	25.4	38.2

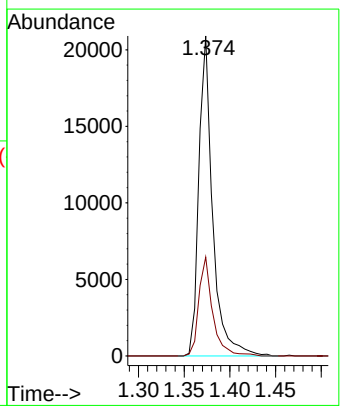


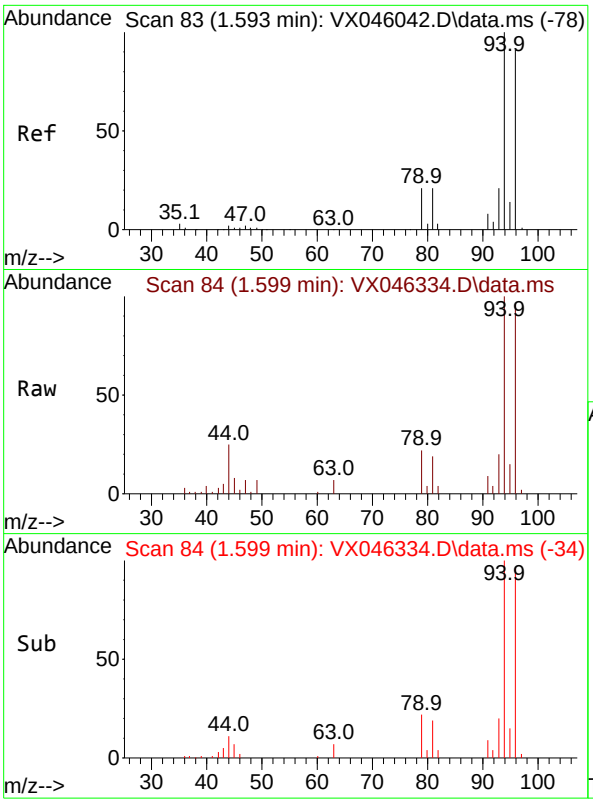


#4
Vinyl Chloride
Concen: 17.833 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 62 Resp: 21875

Ion	Ratio	Lower	Upper
62	100		
64	30.9	25.2	37.8



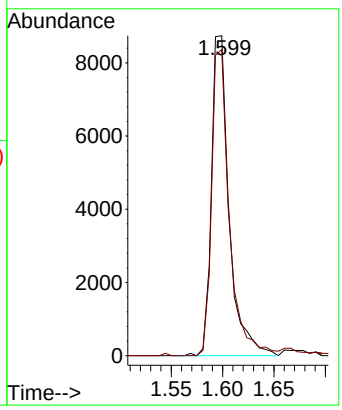


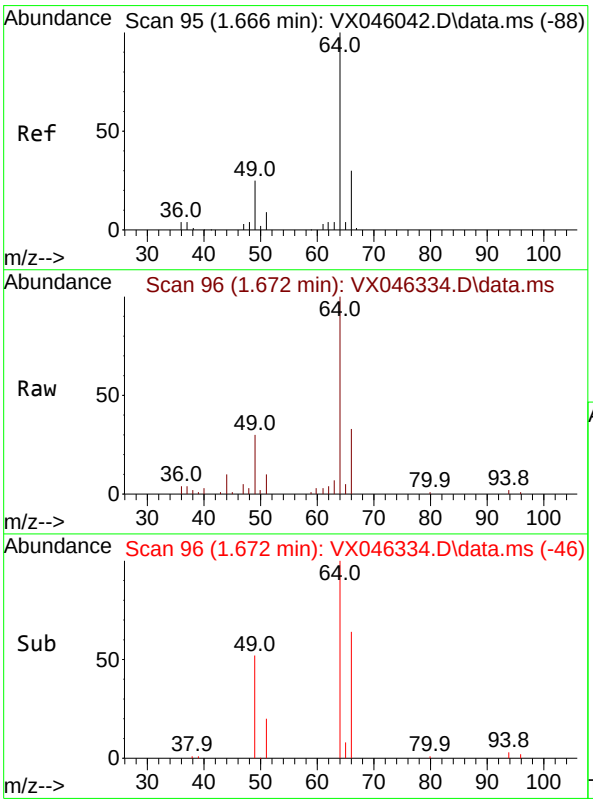
#5
Bromomethane
Concen: 18.326 ug/l
RT: 1.599 min Scan# 84
Delta R.T. 0.006 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

Tgt Ion: 94 Resp: 10427

Ion	Ratio	Lower	Upper
94	100		
96	95.6	72.8	109.2

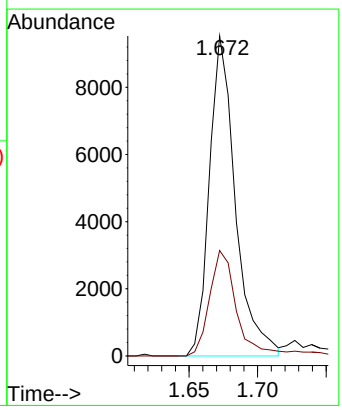


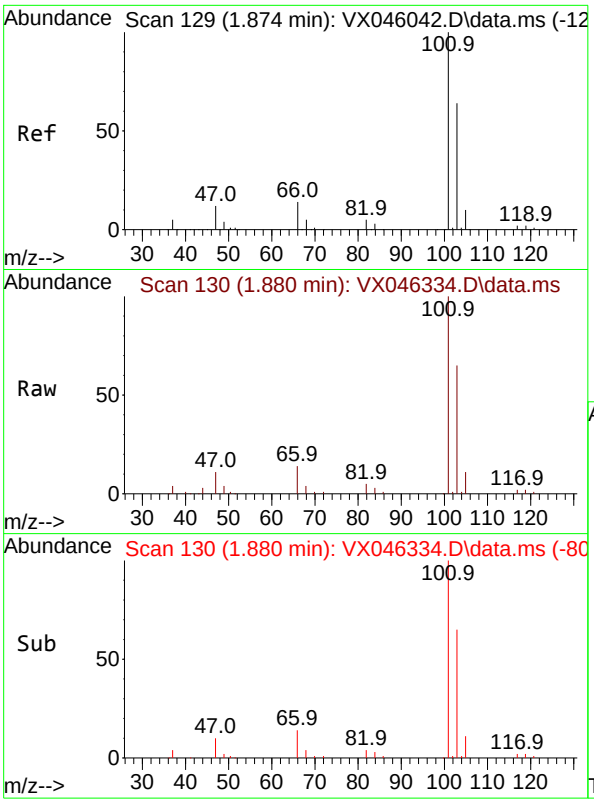


#6
Chloroethane
Concen: 19.167 ug/l
RT: 1.672 min Scan# 96
Delta R.T. 0.006 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 64 Resp: 12552

Ion	Ratio	Lower	Upper
64	100		
66	32.9	24.3	36.5



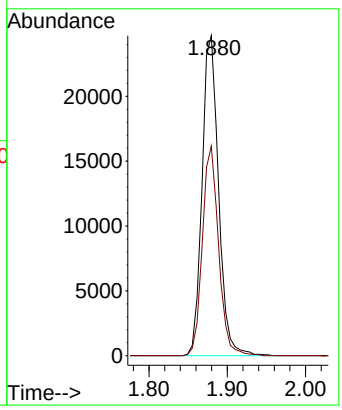


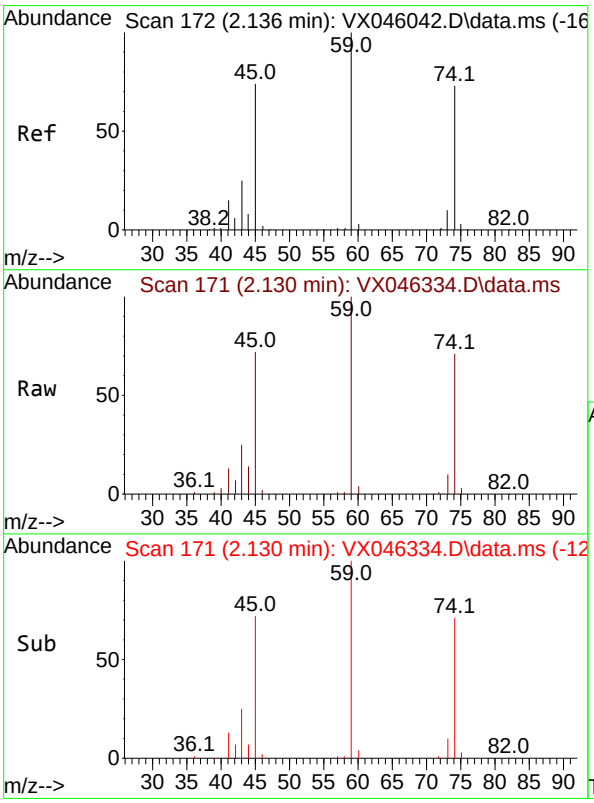
#7
Trichlorofluoromethane
Concen: 19.905 ug/l
RT: 1.880 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

Tgt Ion:101 Resp: 36086

Ion	Ratio	Lower	Upper
101	100		
103	65.5	51.0	76.4

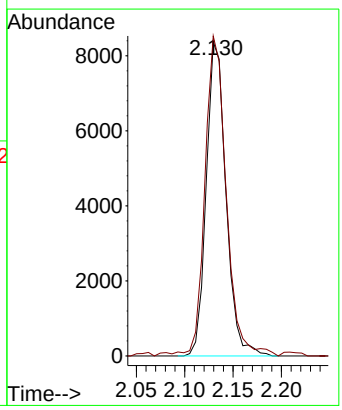


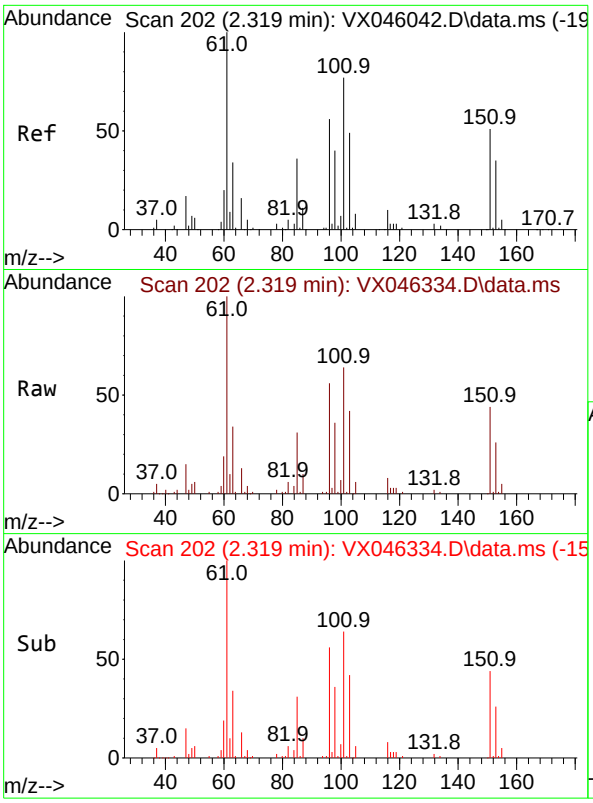


#8
Diethyl Ether
Concen: 19.212 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 74 Resp: 11857

Ion	Ratio	Lower	Upper
74	100		
45	109.9	54.9	164.8



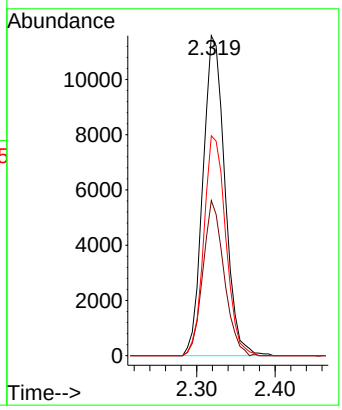


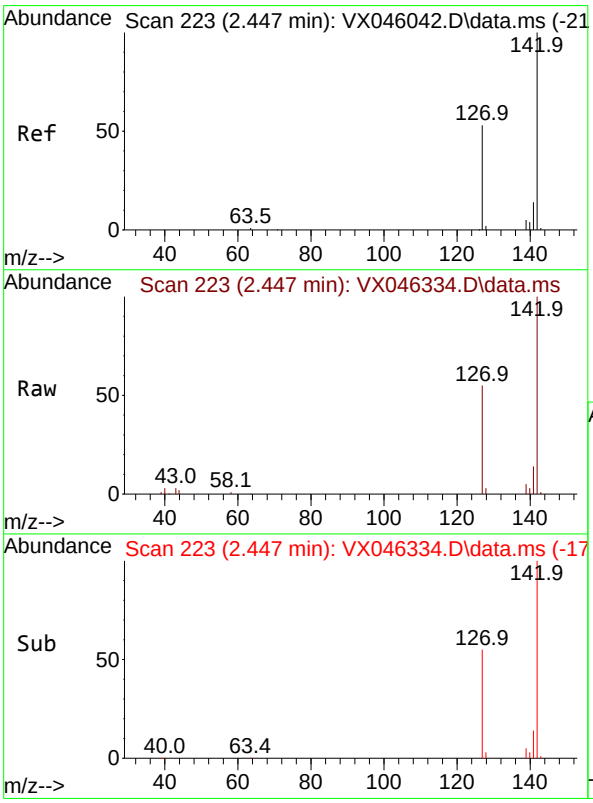
#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.099 ug/l
RT: 2.319 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

Tgt Ion:101 Resp: 22550

Ion	Ratio	Lower	Upper
101	100		
85	46.6	38.6	58.0
151	68.6	55.2	82.8

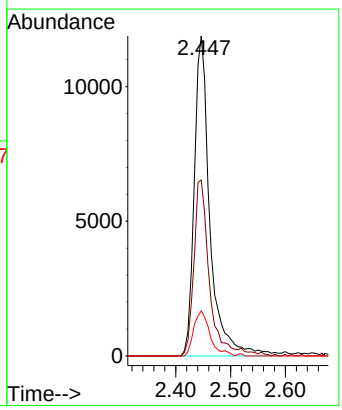


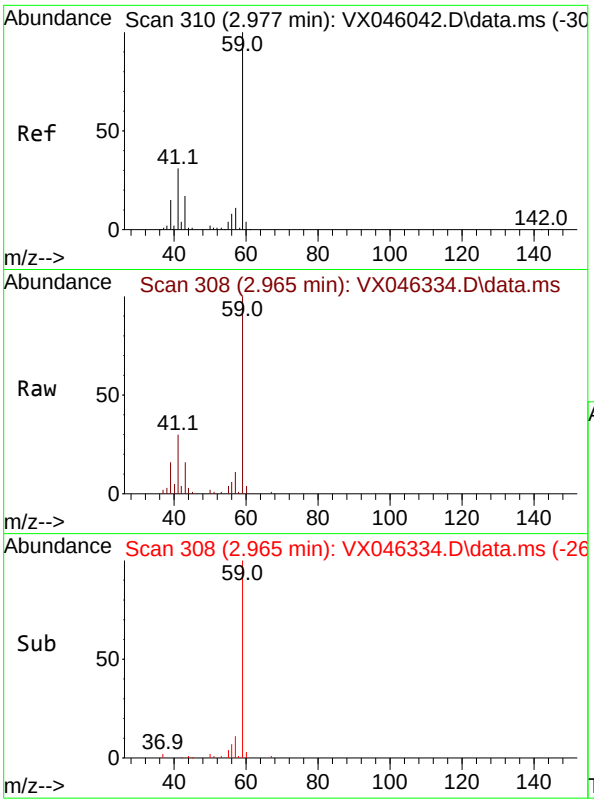


#10
Methyl Iodide
Concen: 17.845 ug/l
RT: 2.447 min Scan# 223
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion:142 Resp: 23690

Ion	Ratio	Lower	Upper
142	100		
127	55.0	41.7	62.5
141	14.6	11.5	17.3



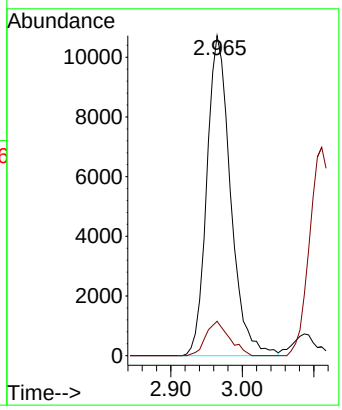


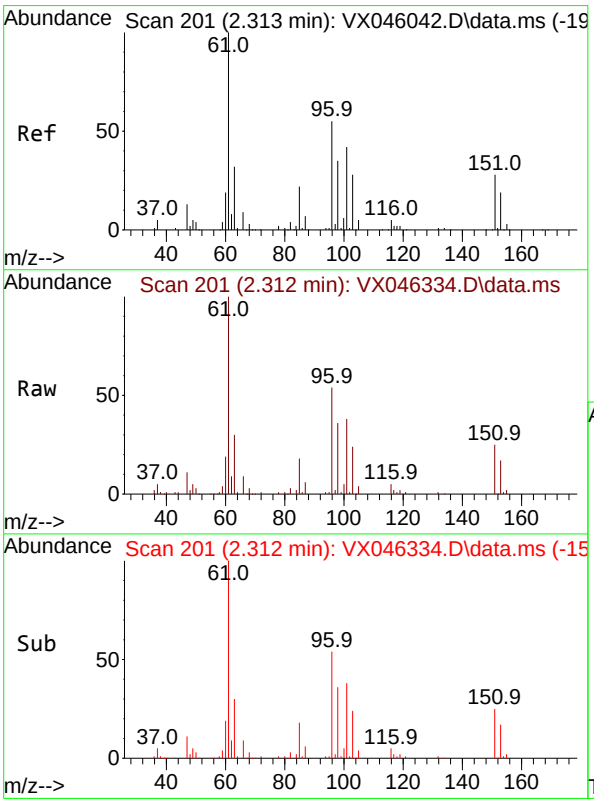
#11
Tert butyl alcohol
Concen: 106.404 ug/l
RT: 2.965 min Scan# 3
Delta R.T. -0.012 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

Tgt Ion: 59 Resp: 24727

Ion	Ratio	Lower	Upper
59	100		
57	10.7	8.6	12.8

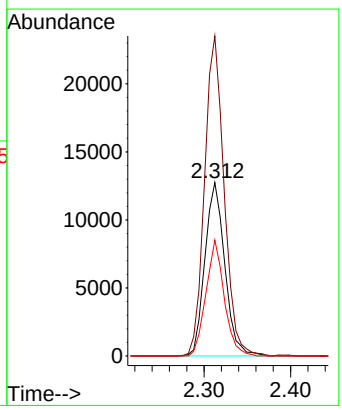


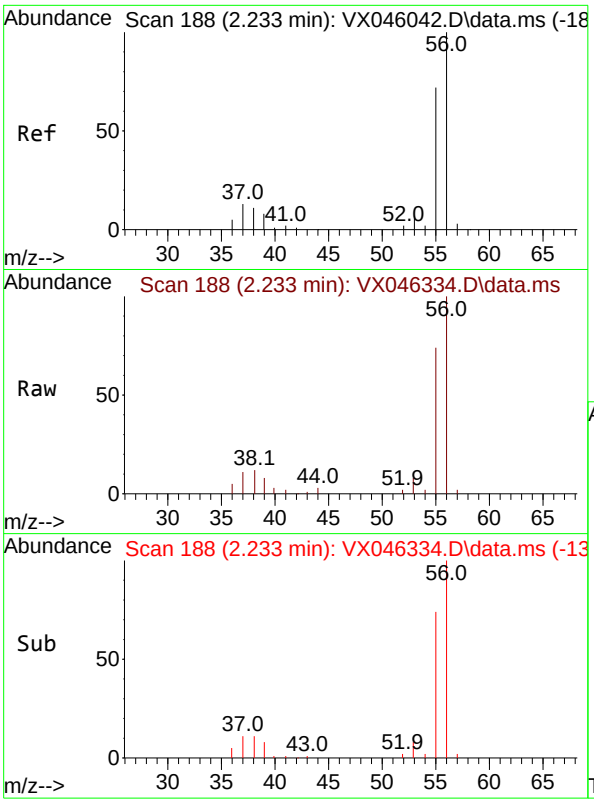


#12
1,1-Dichloroethene
Concen: 19.334 ug/l
RT: 2.312 min Scan# 201
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 96 Resp: 20358

Ion	Ratio	Lower	Upper
96	100		
61	184.5	146.2	219.2
98	66.8	51.0	76.6



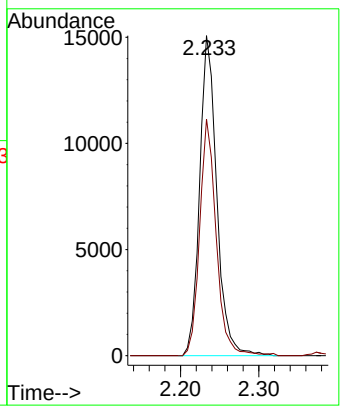


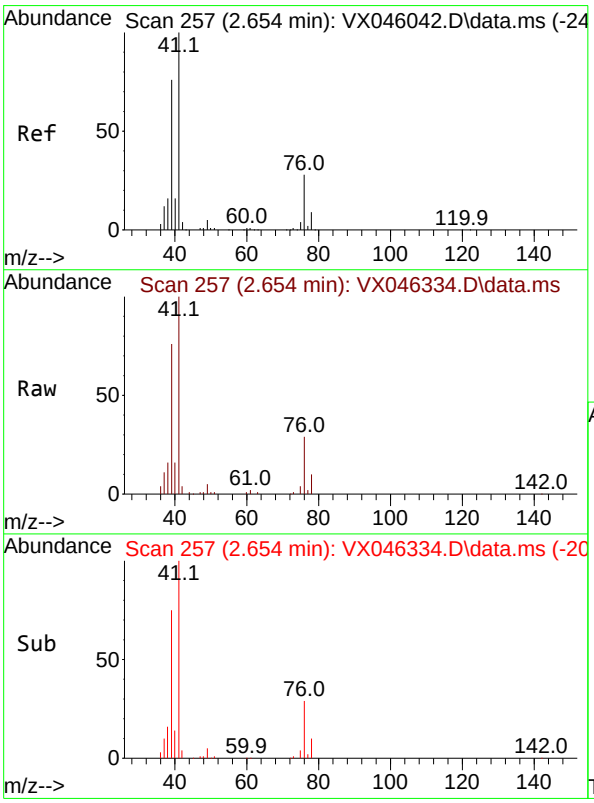
#13
Acrolein
Concen: 86.476 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

Tgt Ion: 56 Resp: 22886

Ion	Ratio	Lower	Upper
56	100		
55	71.5	56.2	84.4

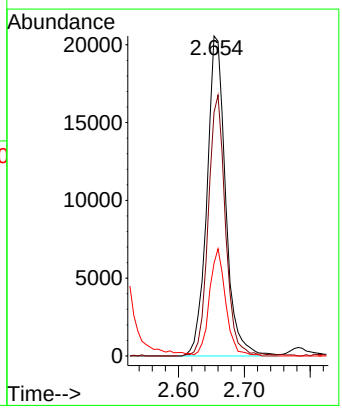


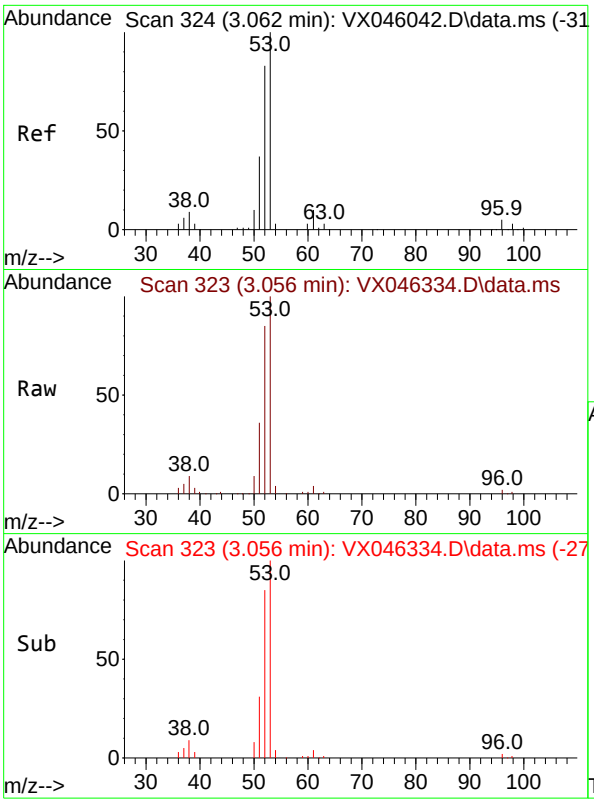


#14
Allyl chloride
Concen: 20.236 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 41 Resp: 40722

Ion	Ratio	Lower	Upper
41	100		
39	74.6	60.6	90.8
76	29.0	24.9	37.3



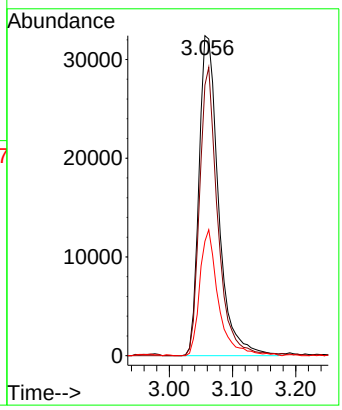


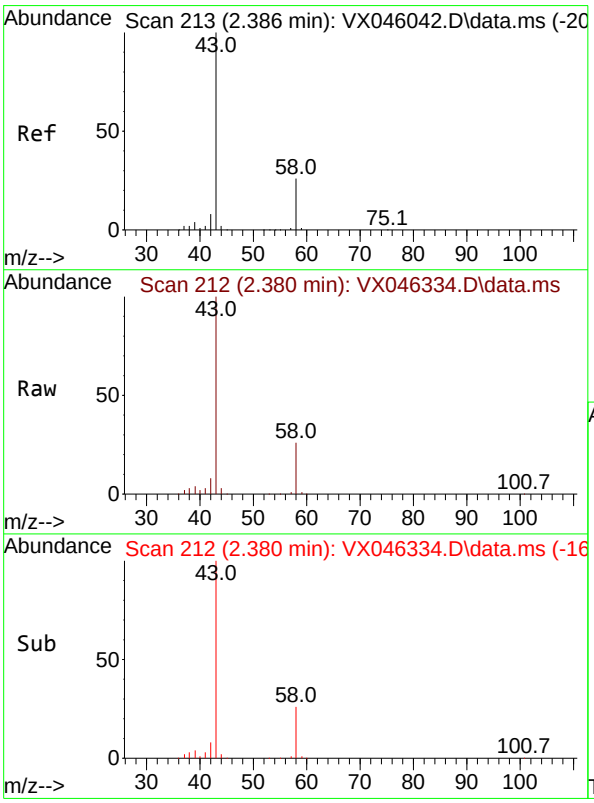
#15
Acrylonitrile
Concen: 105.077 ug/l
RT: 3.056 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

Tgt Ion: 53 Resp: 69823

Ion	Ratio	Lower	Upper
53	100		
52	83.9	65.3	97.9
51	37.5	29.8	44.8

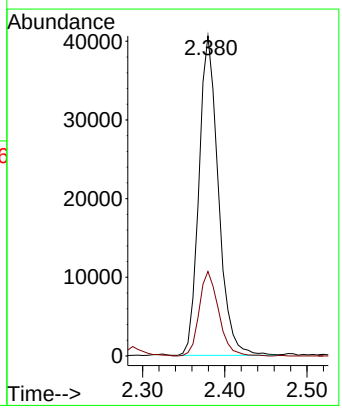


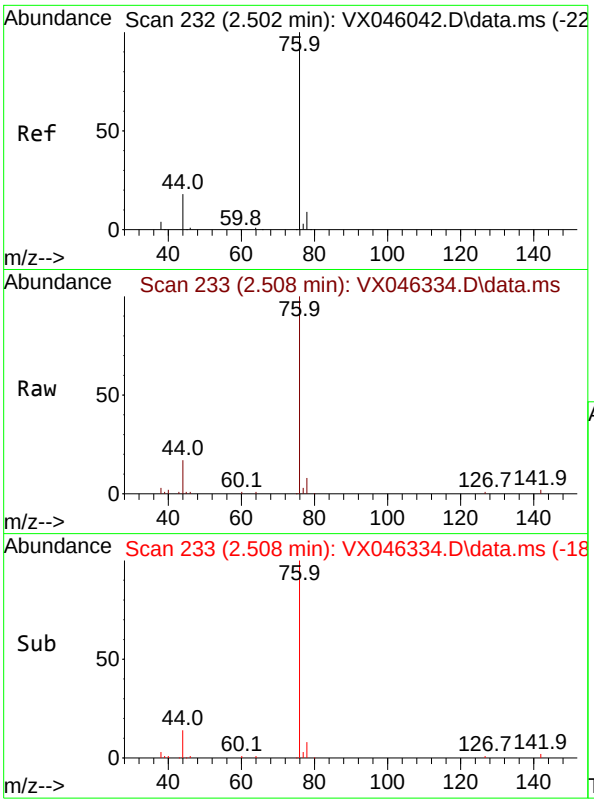


#16
Acetone
Concen: 100.699 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 43 Resp: 66843

Ion	Ratio	Lower	Upper
43	100		
58	26.4	21.2	31.8



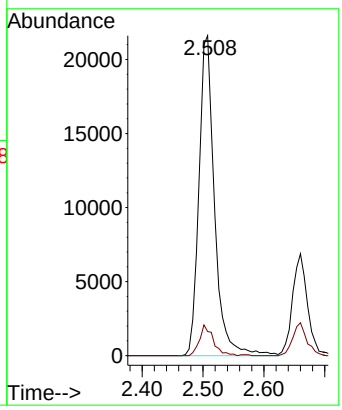


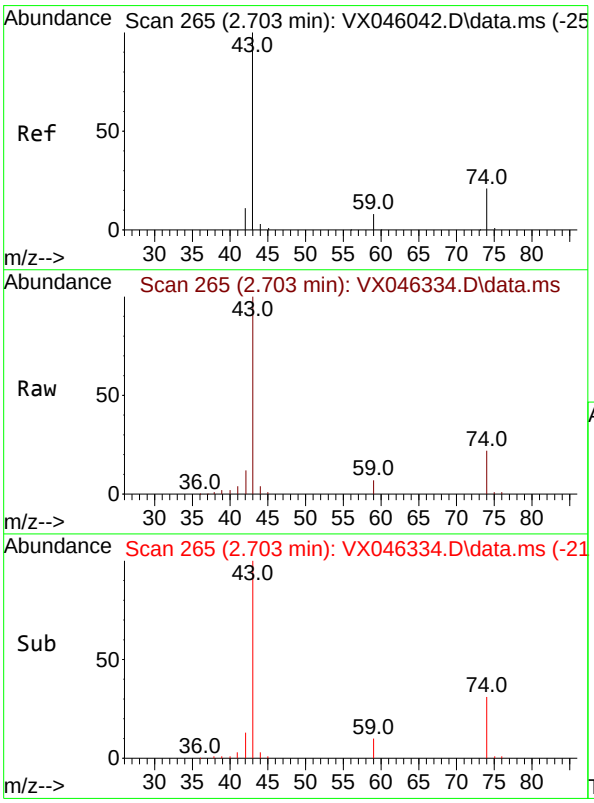
#17
Carbon Disulfide
Concen: 15.399 ug/l
RT: 2.508 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

Tgt Ion: 76 Resp: 38442

Ion	Ratio	Lower	Upper
76	100		
78	7.5	7.0	10.4

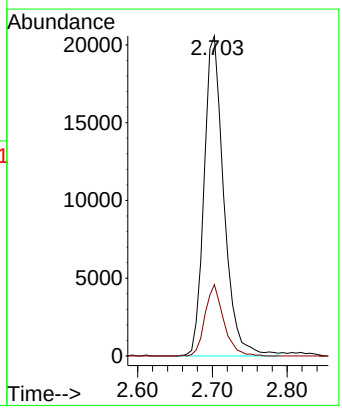


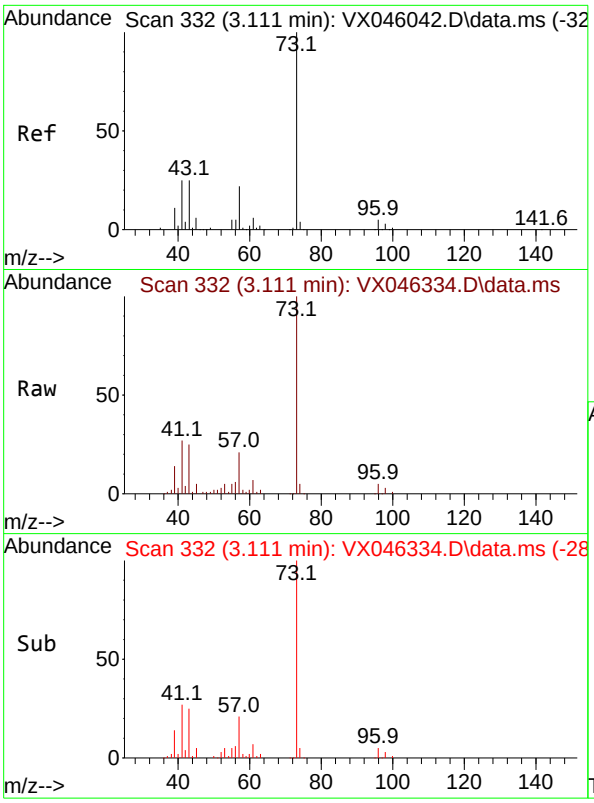


#18
Methyl Acetate
Concen: 24.597 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 43 Resp: 37888

Ion	Ratio	Lower	Upper
43	100		
74	21.1	16.7	25.1



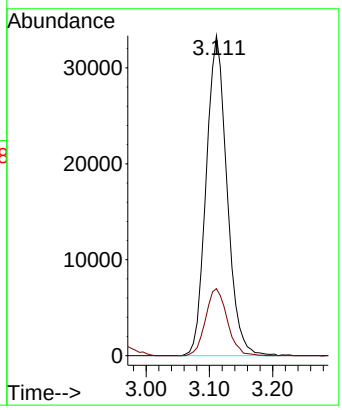


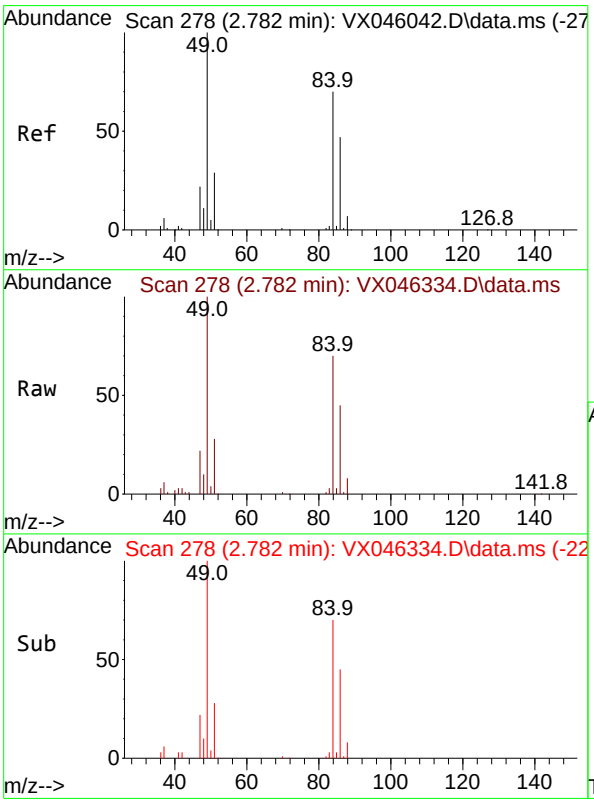
#19
Methyl tert-butyl Ether
Concen: 20.665 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

Tgt Ion: 73 Resp: 76286

Ion	Ratio	Lower	Upper
73	100		
57	21.0	17.7	26.5

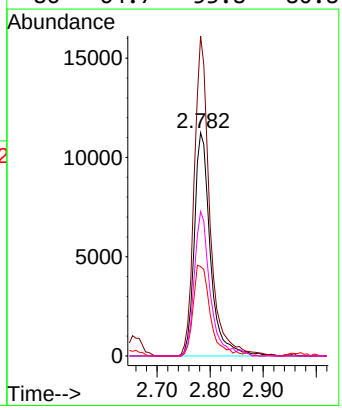


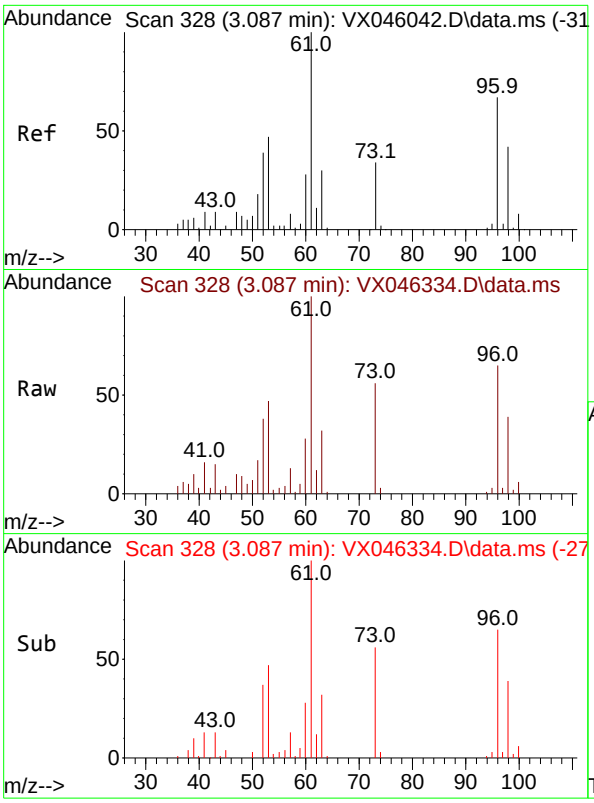


#20
Methylene Chloride
Concen: 18.588 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 84 Resp: 23645

Ion	Ratio	Lower	Upper
84	100		
49	143.3	113.9	170.9
51	40.0	33.5	50.3
86	64.7	53.8	80.8



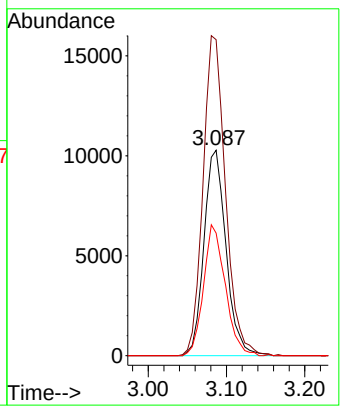


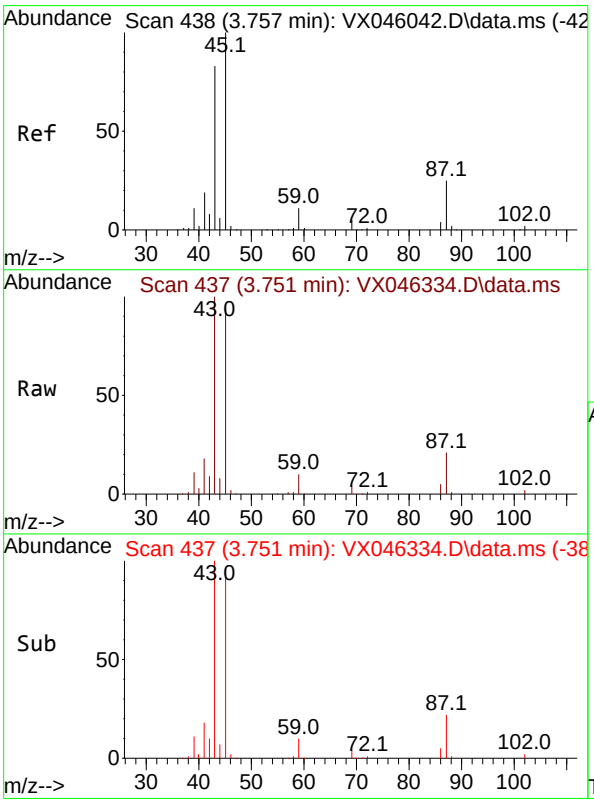
#21
trans-1,2-Dichloroethene
Concen: 19.045 ug/l
RT: 3.087 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

Tgt Ion: 96 Resp: 20167

Ion	Ratio	Lower	Upper
96	100		
61	153.7	119.5	179.3
98	59.7	50.0	75.0

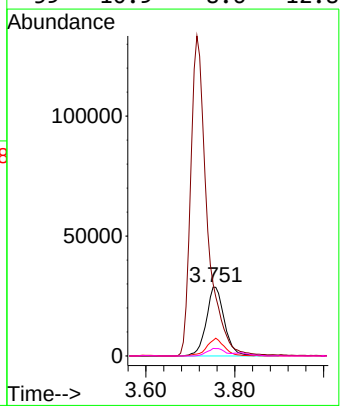


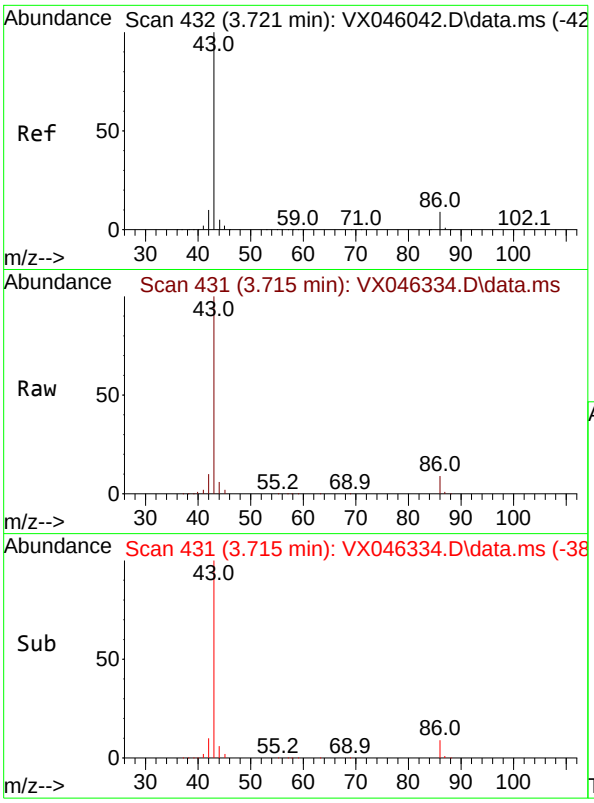


#22
Diisopropyl ether
Concen: 21.078 ug/l
RT: 3.751 min Scan# 437
Delta R.T. -0.006 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 45 Resp: 81936

Ion	Ratio	Lower	Upper
45	100		
43	104.7	66.6	100.0#
87	22.6	19.8	29.6
59	10.9	8.6	12.8



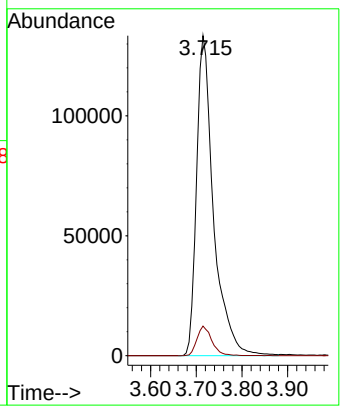


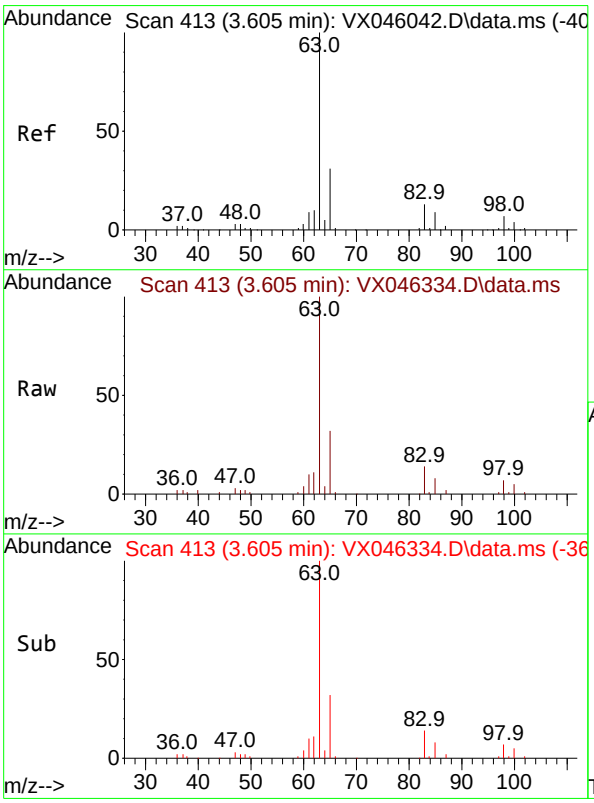
#23
Vinyl Acetate
Concen: 100.693 ug/l
RT: 3.715 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

Tgt Ion: 43 Resp: 344264

Ion	Ratio	Lower	Upper
43	100		
86	9.3	7.5	11.3

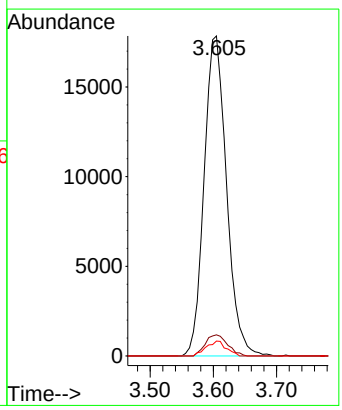


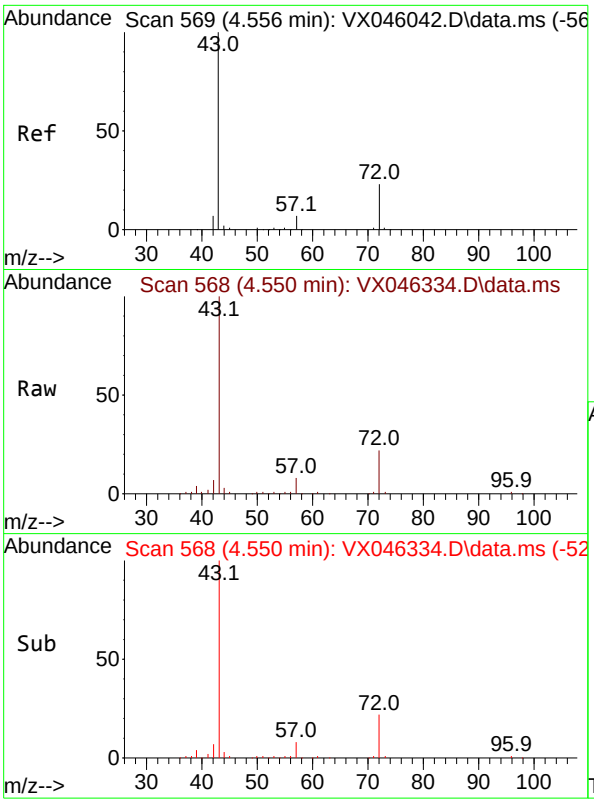


#24
1,1-Dichloroethane
Concen: 20.320 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 63 Resp: 43994

Ion	Ratio	Lower	Upper
63	100		
98	6.6	3.6	10.8
100	4.7	2.1	6.3



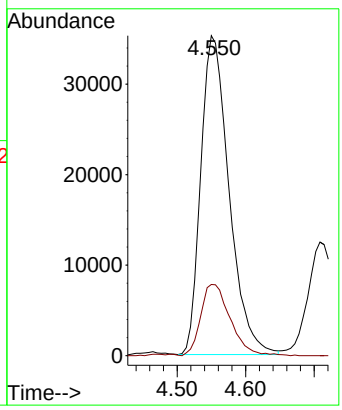


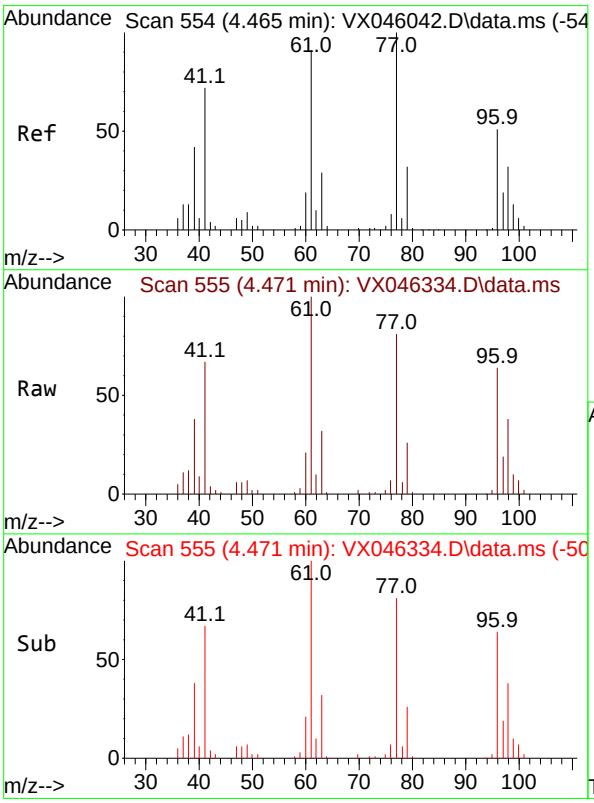
#25
2-Butanone
Concen: 105.062 ug/l
RT: 4.550 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

Tgt Ion: 43 Resp: 101247

Ion	Ratio	Lower	Upper
43	100		
72	22.2	18.4	27.6

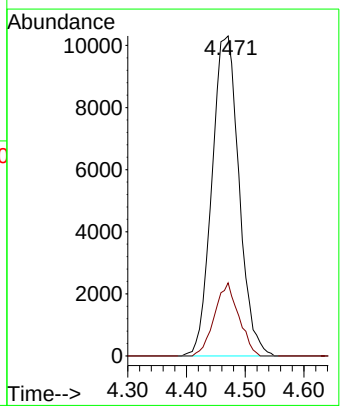


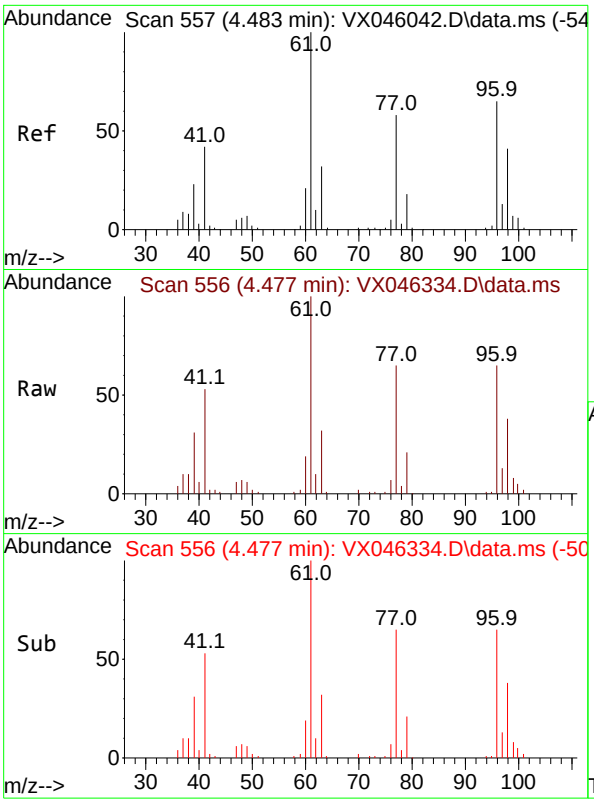


#26
2,2-Dichloropropane
Concen: 19.464 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 77 Resp: 32985

Ion	Ratio	Lower	Upper
77	100		
97	20.5	10.5	31.5



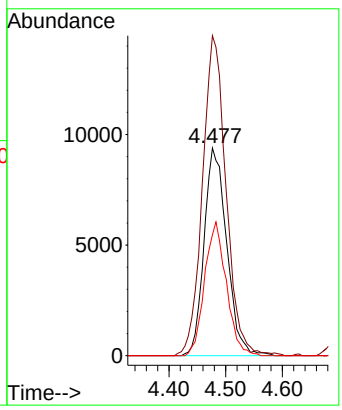


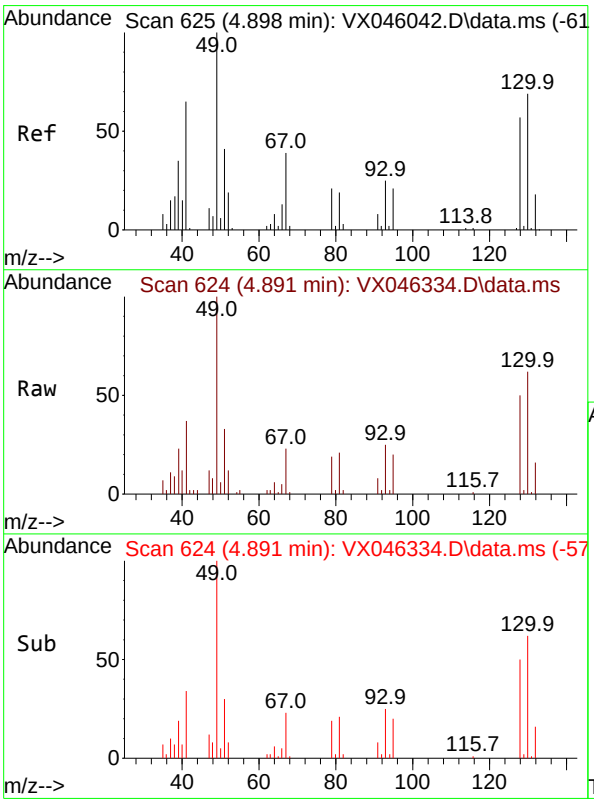
#27
cis-1,2-Dichloroethene
Concen: 20.438 ug/l
RT: 4.477 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

Tgt Ion: 96 Resp: 26053

Ion	Ratio	Lower	Upper
96	100		
61	160.6	0.0	322.8
98	61.7	0.0	129.0

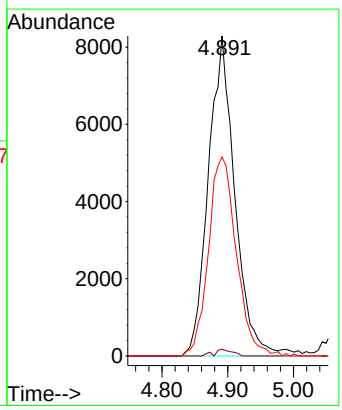


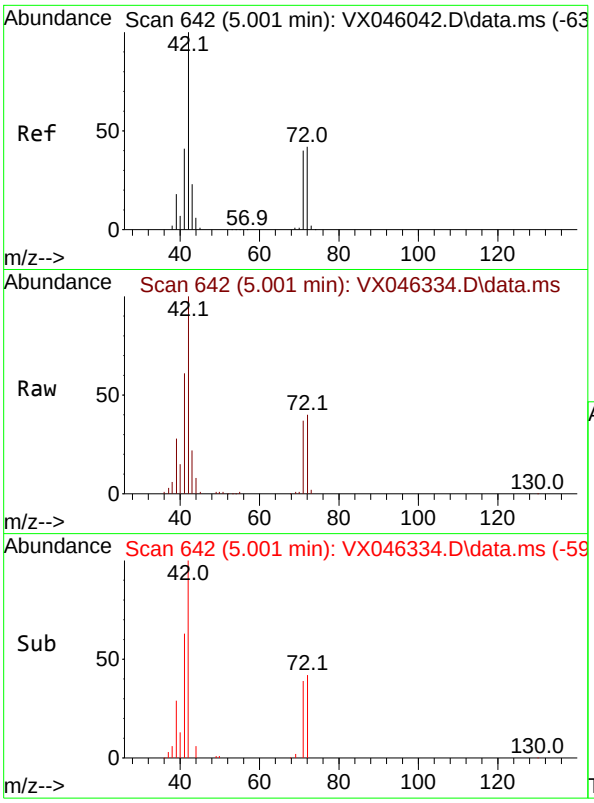


#28
Bromochloromethane
Concen: 22.139 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 49 Resp: 23073

Ion	Ratio	Lower	Upper
49	100		
129	1.4	0.0	4.0
130	66.2	56.2	84.2



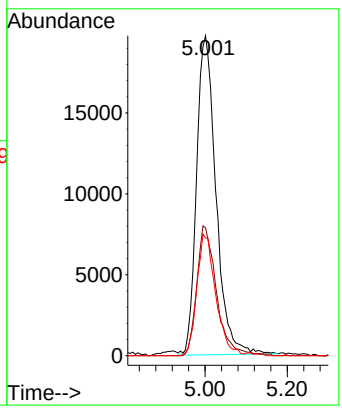


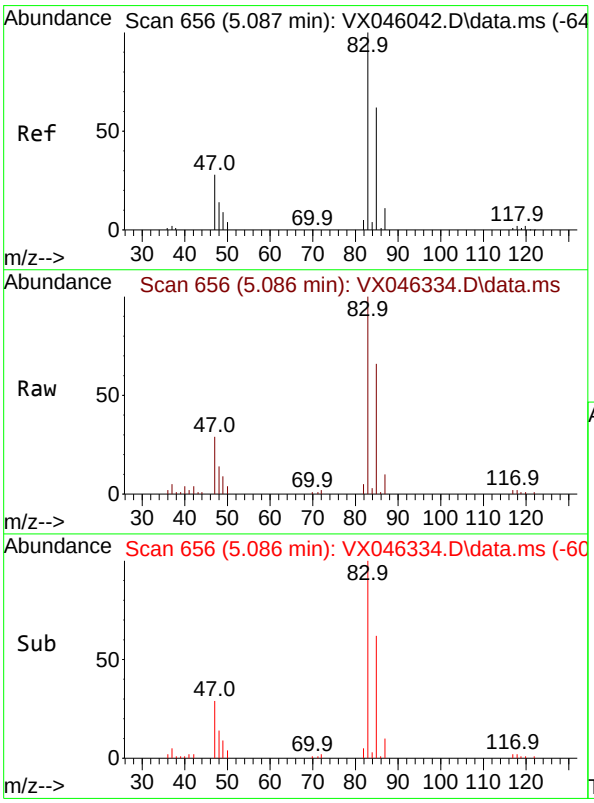
#29
Tetrahydrofuran
Concen: 106.980 ug/l
RT: 5.001 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

Tgt Ion: 42 Resp: 64602

Ion	Ratio	Lower	Upper
42	100		
72	41.4	33.7	50.5
71	37.0	31.4	47.2

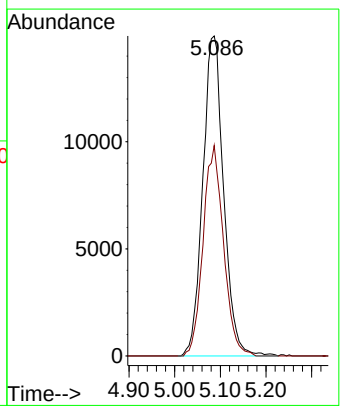


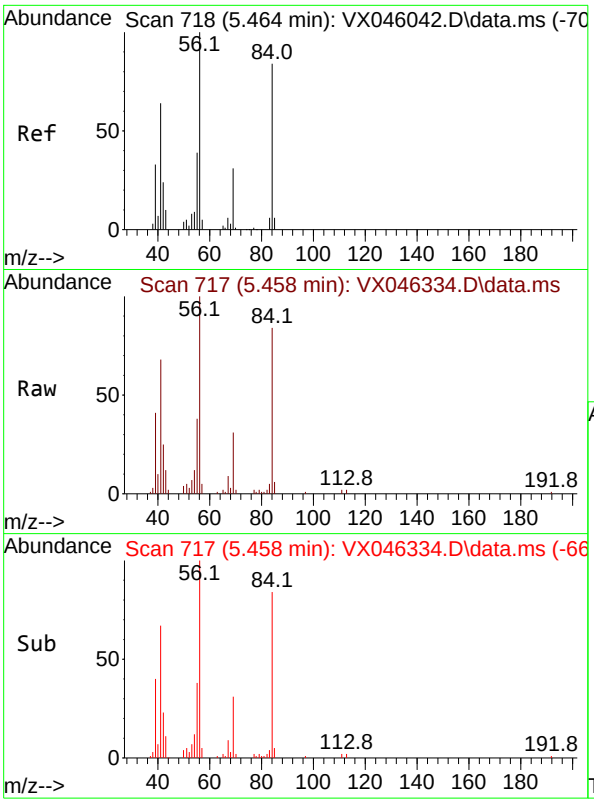


#30
Chloroform
Concen: 20.955 ug/l
RT: 5.086 min Scan# 656
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 83 Resp: 47289

Ion	Ratio	Lower	Upper
83	100		
85	65.7	49.3	73.9



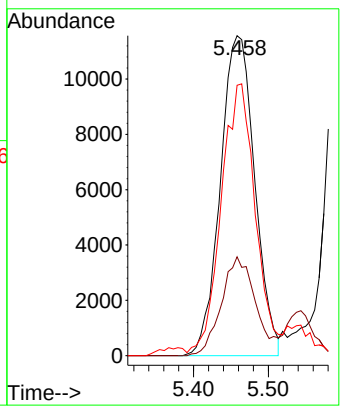


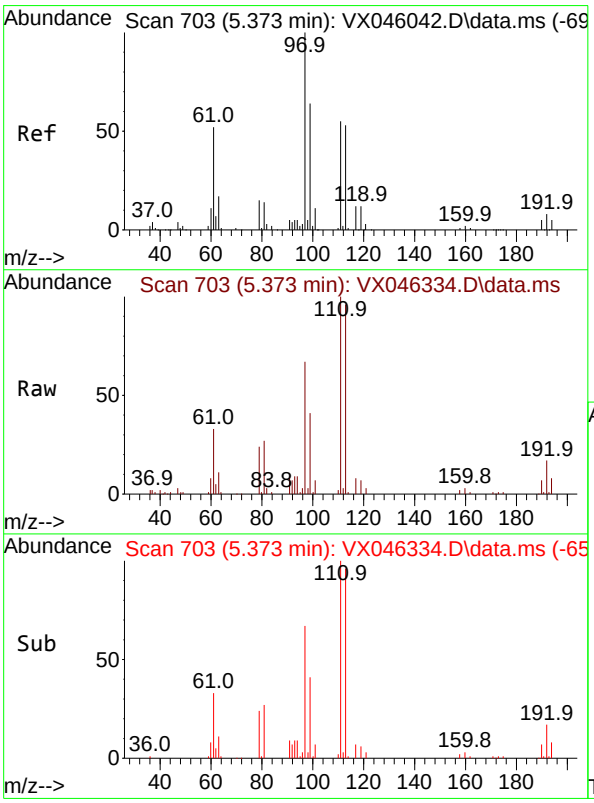
#31
Cyclohexane
Concen: 18.768 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

Tgt Ion: 56 Resp: 37029

Ion	Ratio	Lower	Upper
56	100		
69	30.9	24.4	36.6
84	82.0	66.9	100.3

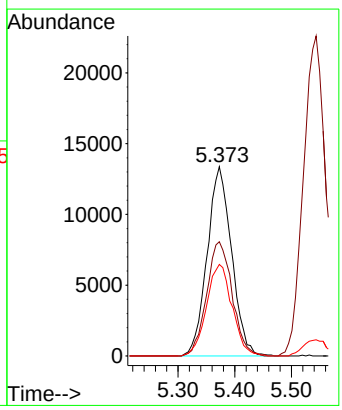


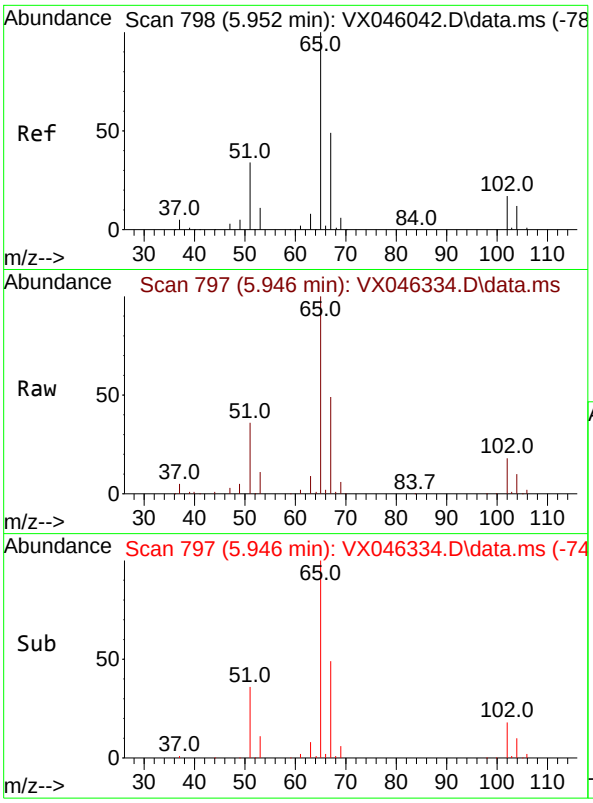


#32
1,1,1-Trichloroethane
Concen: 20.440 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 97 Resp: 39986

Ion	Ratio	Lower	Upper
97	100		
99	63.0	51.8	77.6
61	50.6	40.1	60.1



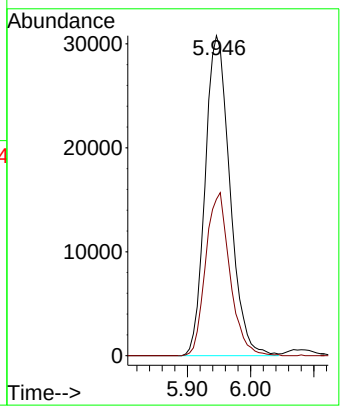


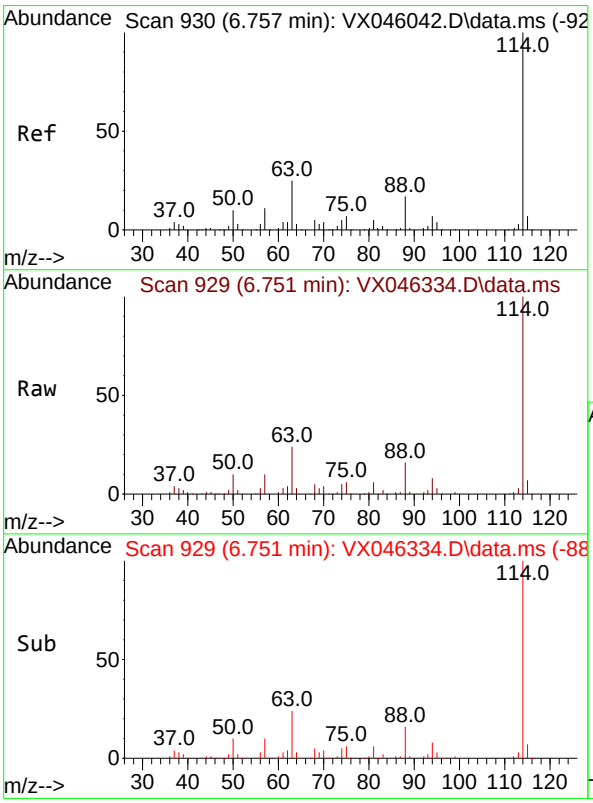
#33
1,2-Dichloroethane-d4
Concen: 50.541 ug/l
RT: 5.946 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

Tgt Ion: 65 Resp: 83672

Ion	Ratio	Lower	Upper
65	100		
67	50.0	0.0	99.0

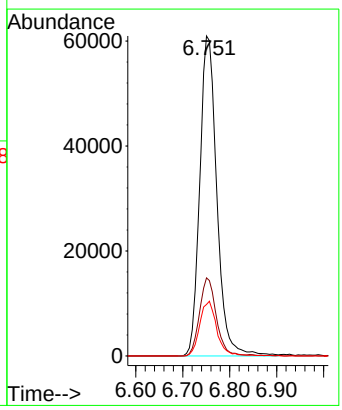


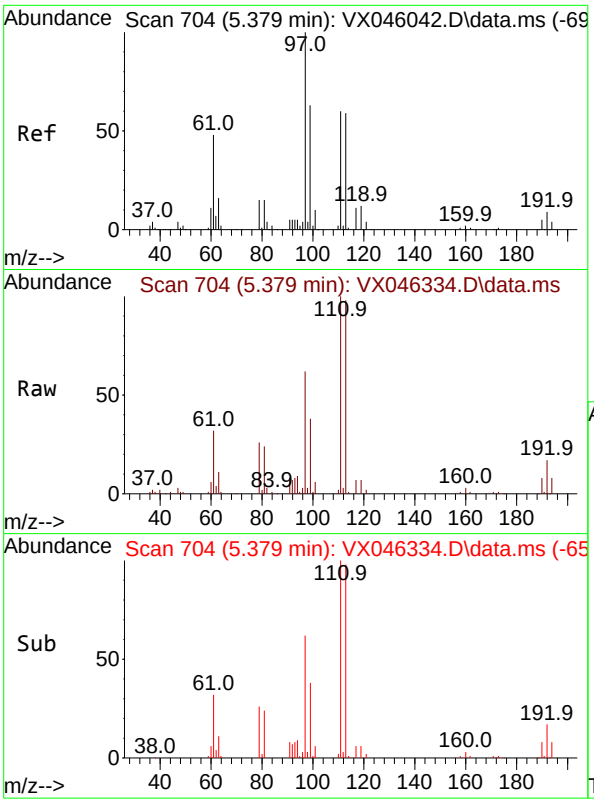


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. -0.006 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion:114 Resp: 154286

Ion	Ratio	Lower	Upper
114	100		
63	24.4	0.0	49.2
88	16.1	0.0	33.6



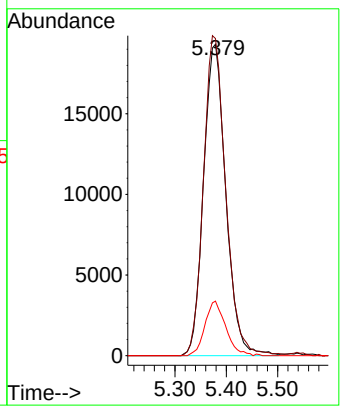


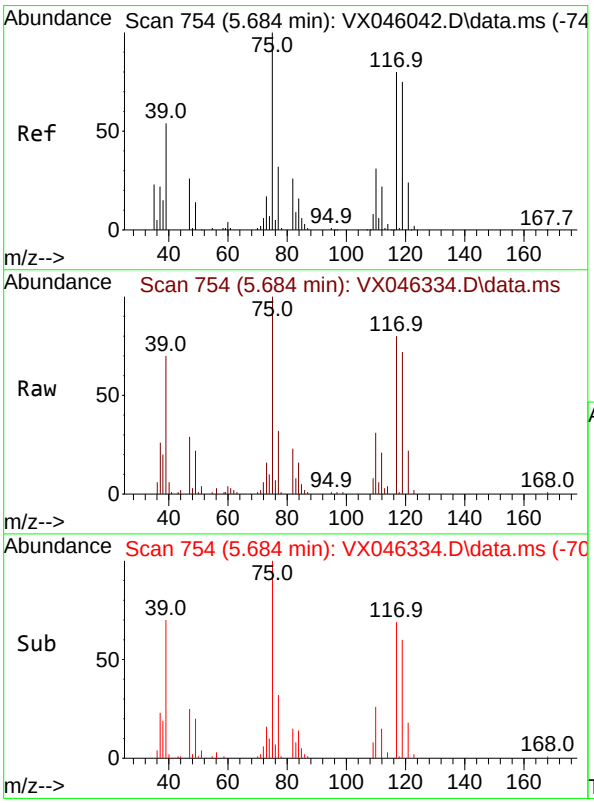
#35
Dibromofluoromethane
Concen: 52.363 ug/l
RT: 5.379 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

Tgt Ion:113 Resp: 58176

Ion	Ratio	Lower	Upper
113	100		
111	102.7	83.1	124.7
192	16.3	13.3	19.9

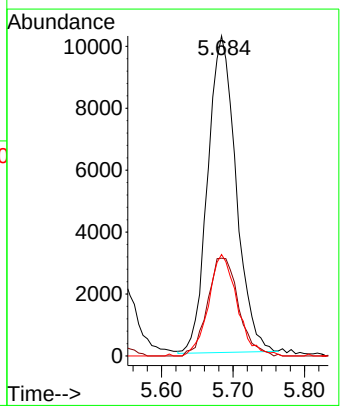


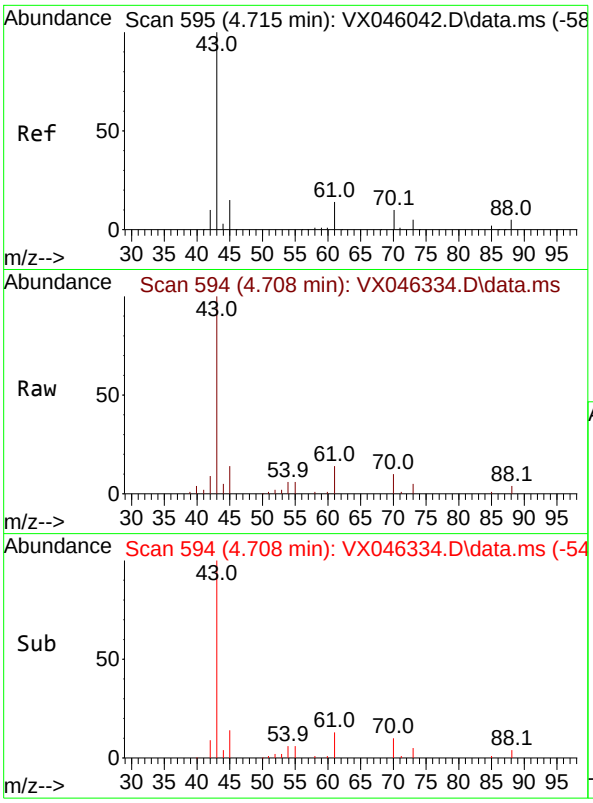


#36
1,1-Dichloropropene
Concen: 18.864 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 75 Resp: 28160

Ion	Ratio	Lower	Upper
75	100		
110	33.8	16.3	48.9
77	32.4	24.3	36.5



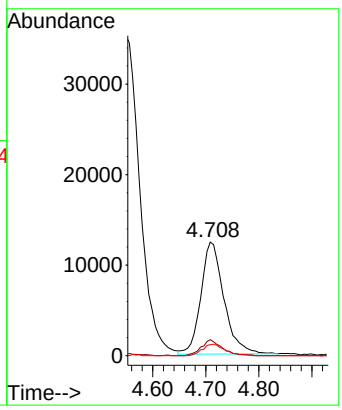


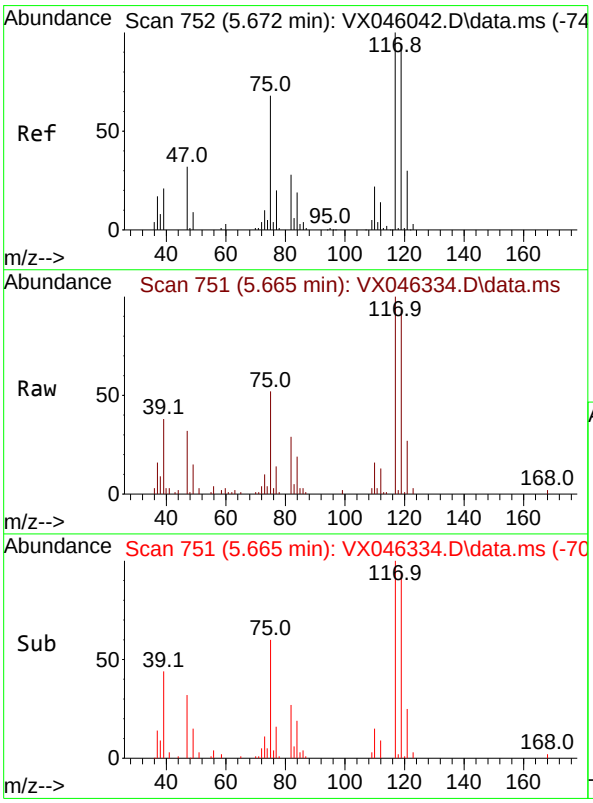
#37
Ethyl Acetate
Concen: 20.193 ug/l
RT: 4.708 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

Tgt Ion: 43 Resp: 37243

Ion	Ratio	Lower	Upper
43	100		
61	12.9	10.3	15.5
70	10.0	7.9	11.9

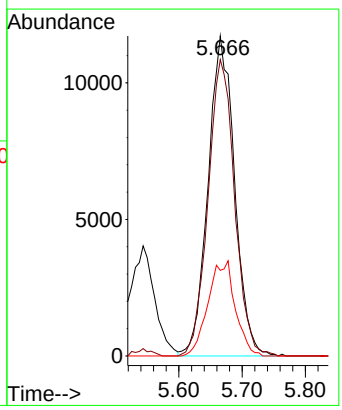


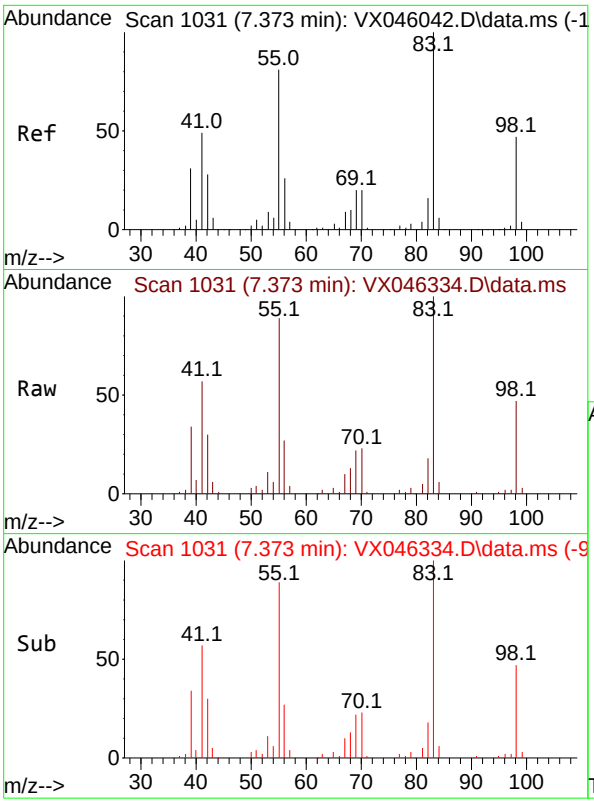


#38
Carbon Tetrachloride
Concen: 20.354 ug/l
RT: 5.665 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion:117 Resp: 34138

Ion	Ratio	Lower	Upper
117	100		
119	92.6	75.2	112.8
121	26.8	24.2	36.4



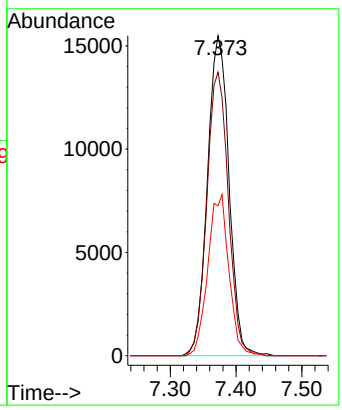


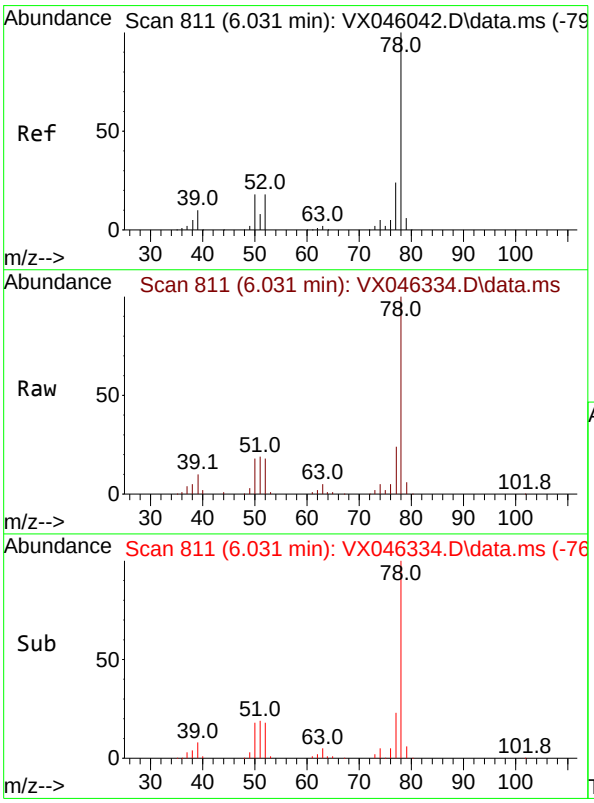
#39
Methylcyclohexane
Concen: 18.392 ug/l
RT: 7.373 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

Tgt Ion: 83 Resp: 35346

Ion	Ratio	Lower	Upper
83	100		
55	88.5	64.7	97.1
98	46.8	37.4	56.2

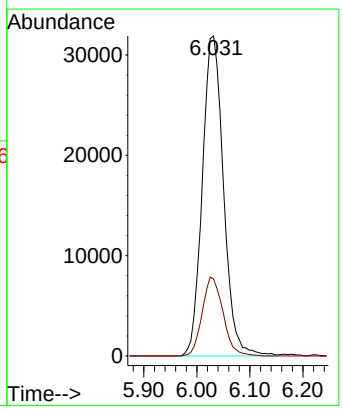


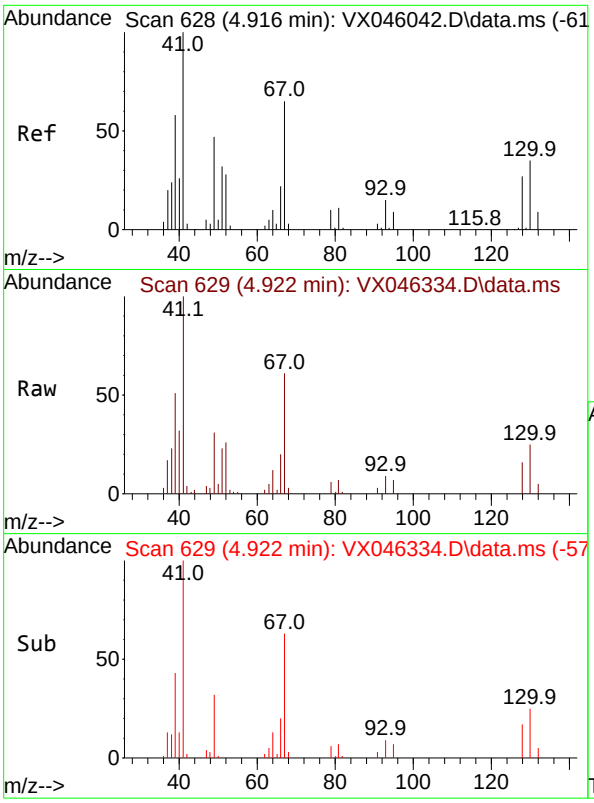


#40
Benzene
Concen: 20.255 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 78 Resp: 88565

Ion	Ratio	Lower	Upper
78	100		
77	24.1	19.0	28.4



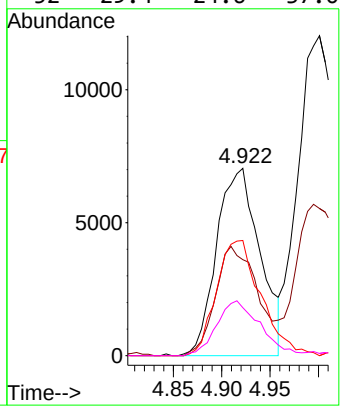


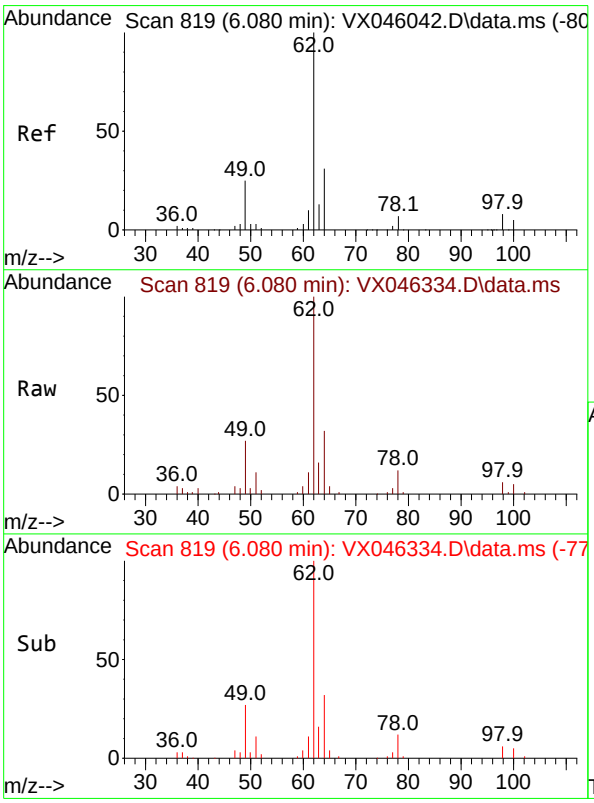
#41
Methacrylonitrile
Concen: 22.750 ug/l
RT: 4.922 min Scan# 6
Delta R.T. 0.006 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

Tgt Ion: 41 Resp: 21949

Ion	Ratio	Lower	Upper
41	100		
39	55.8	47.2	70.8
67	62.9	50.7	76.1
52	29.4	24.6	37.0

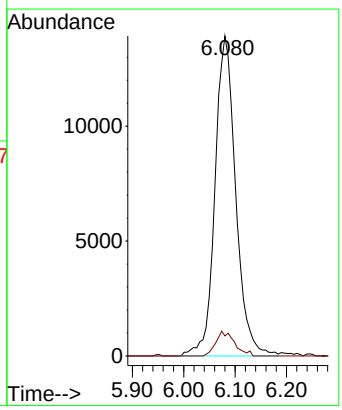


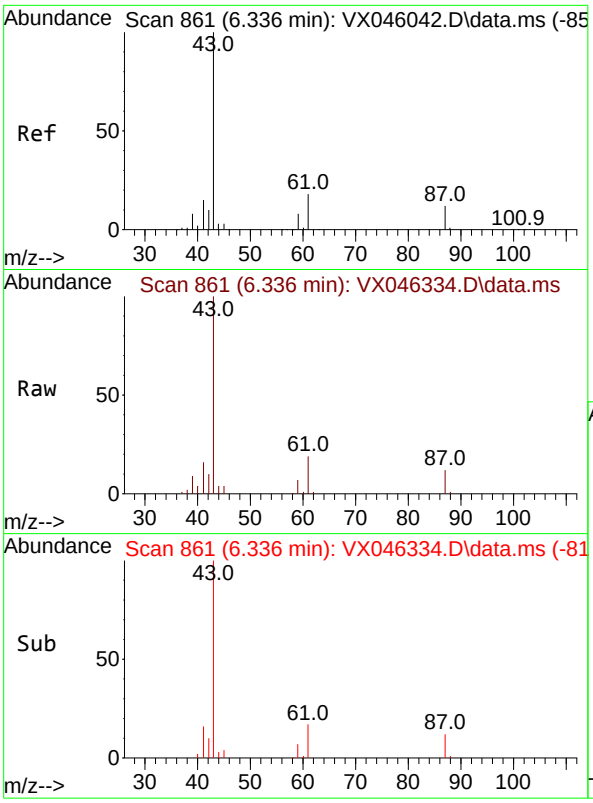


#42
1,2-Dichloroethane
Concen: 20.687 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 62 Resp: 39039

Ion	Ratio	Lower	Upper
62	100		
98	7.0	0.0	15.2



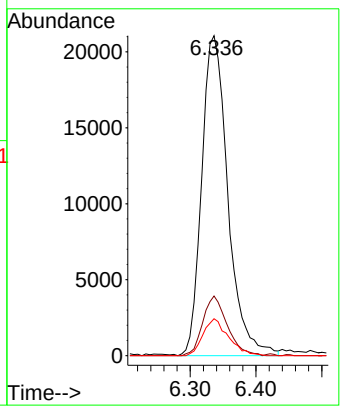


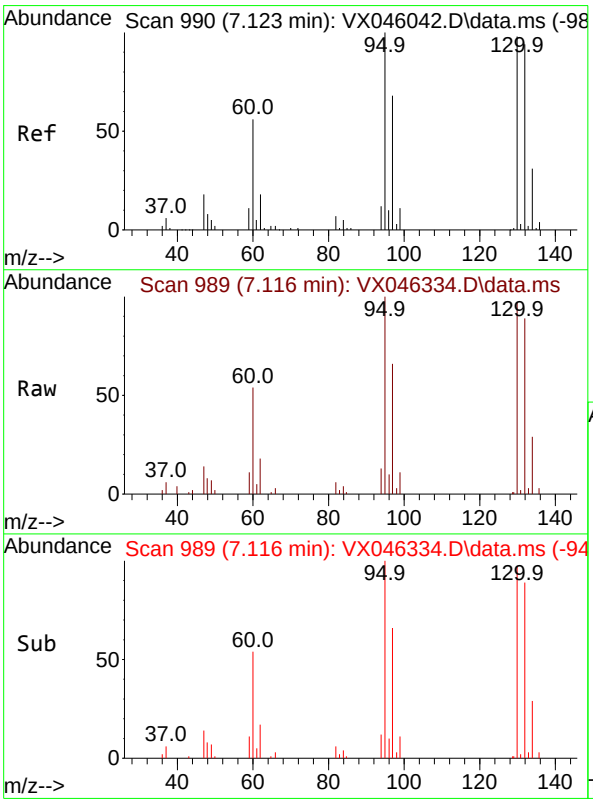
#43
Isopropyl Acetate
Concen: 20.779 ug/l
RT: 6.336 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

Tgt Ion: 43 Resp: 58465

Ion	Ratio	Lower	Upper
43	100		
61	17.3	14.3	21.5
87	11.2	9.5	14.3

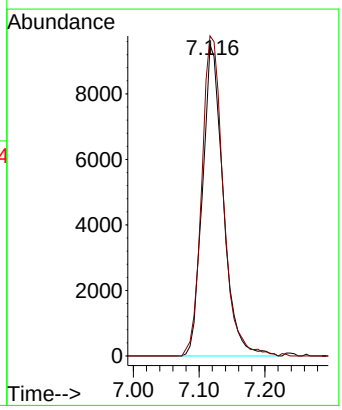


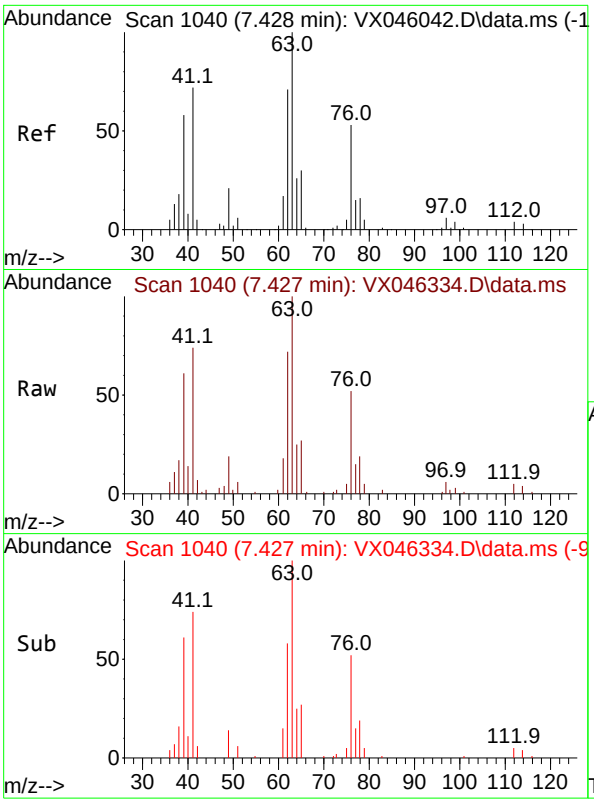


#44
Trichloroethene
Concen: 19.818 ug/l
RT: 7.116 min Scan# 989
Delta R.T. -0.006 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion:130 Resp: 20856

Ion	Ratio	Lower	Upper
130	100		
95	102.9	0.0	204.2



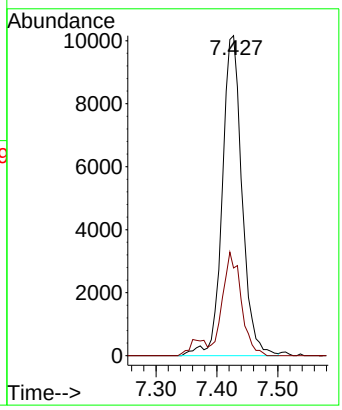


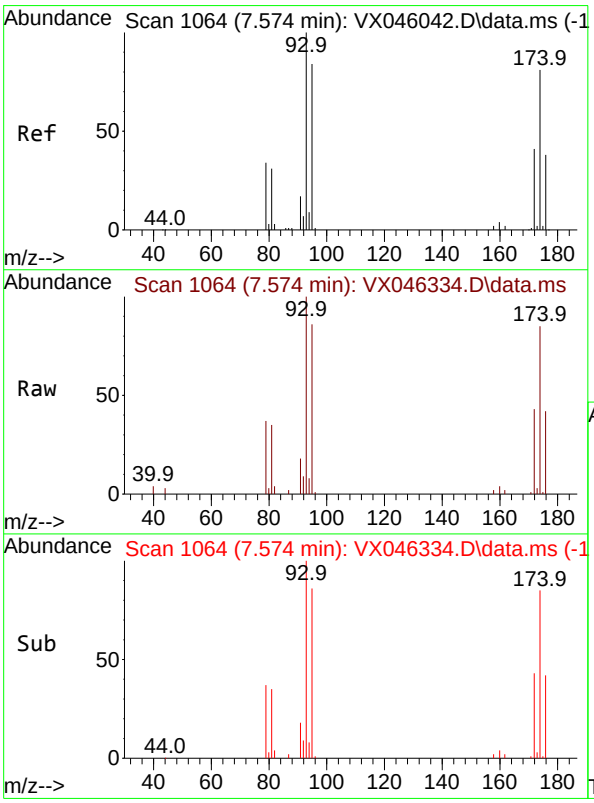
#45
1,2-Dichloropropane
Concen: 21.051 ug/l
RT: 7.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

Tgt Ion: 63 Resp: 22887

Ion	Ratio	Lower	Upper
63	100		
65	27.4	24.1	36.1

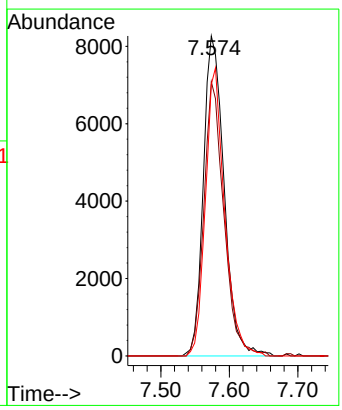


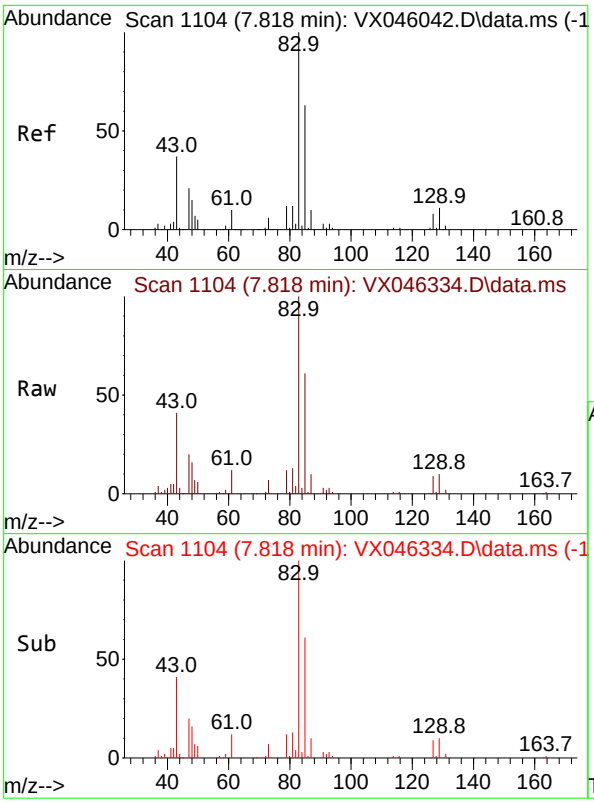


#46
Dibromomethane
Concen: 20.292 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 93 Resp: 17401

Ion	Ratio	Lower	Upper
93	100		
95	82.7	65.6	98.4
174	83.5	68.2	102.2



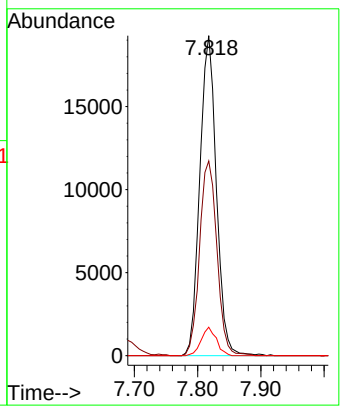


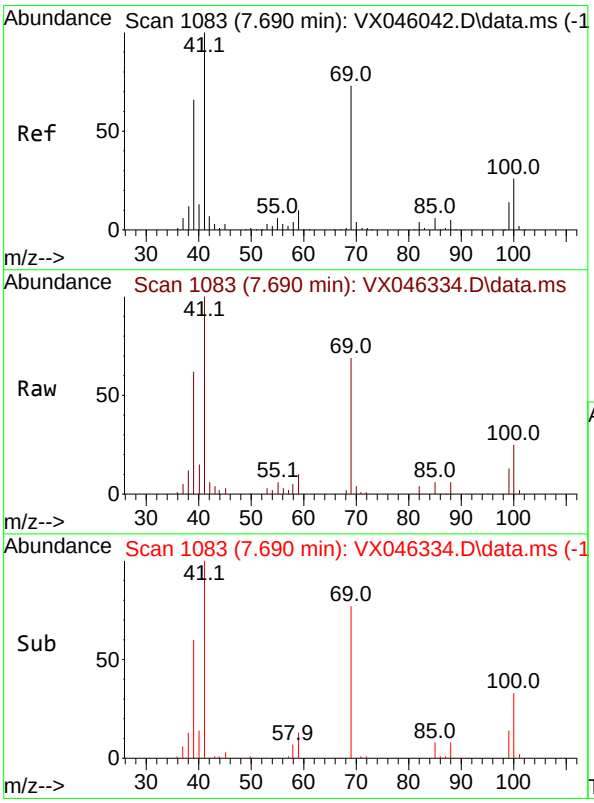
#47
Bromodichloromethane
Concen: 20.847 ug/l
RT: 7.818 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

Tgt Ion: 83 Resp: 35210

Ion	Ratio	Lower	Upper
83	100		
85	60.9	50.5	75.7
127	8.9	6.5	9.7

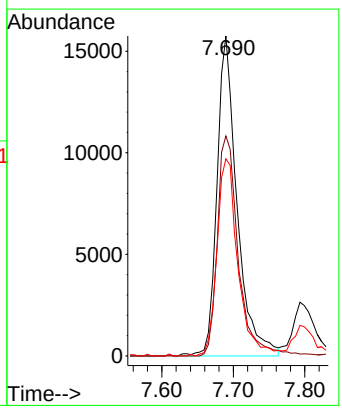


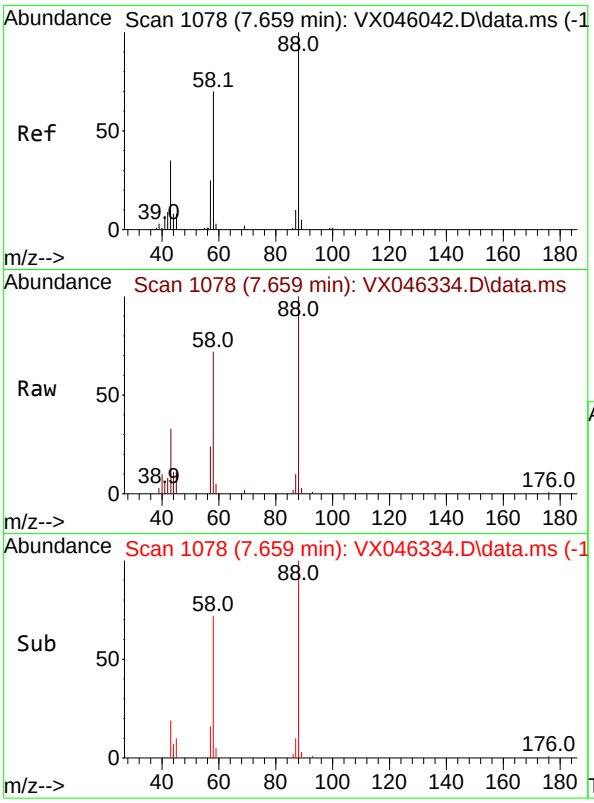


#48
Methyl methacrylate
Concen: 21.365 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 41 Resp: 30700

Ion	Ratio	Lower	Upper
41	100		
69	72.0	58.5	87.7
39	64.5	51.7	77.5



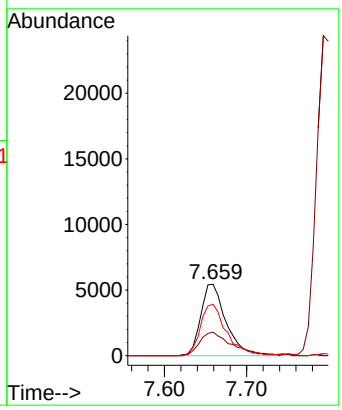


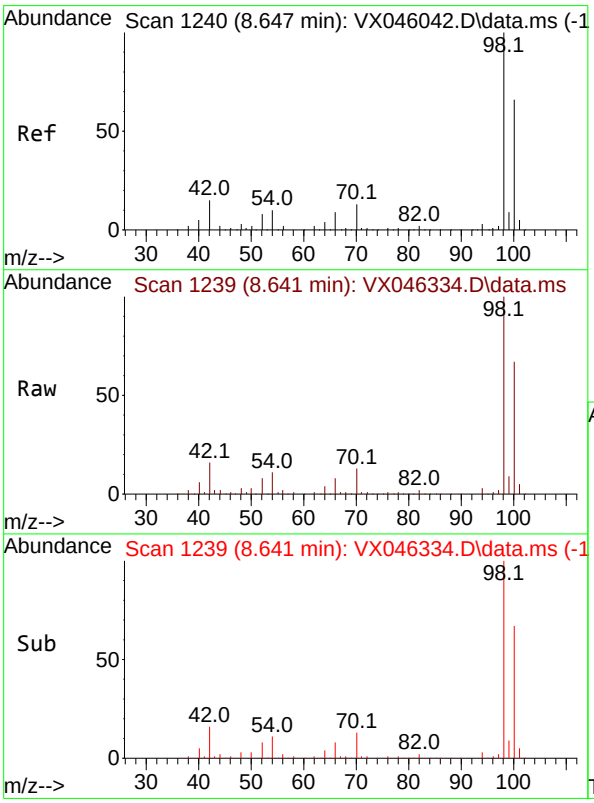
#49
1,4-Dioxane
Concen: 426.008 ug/l
RT: 7.659 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

Tgt Ion: 88 Resp: 11623

Ion	Ratio	Lower	Upper
88	100		
43	41.6	33.4	50.2
58	74.2	58.6	88.0

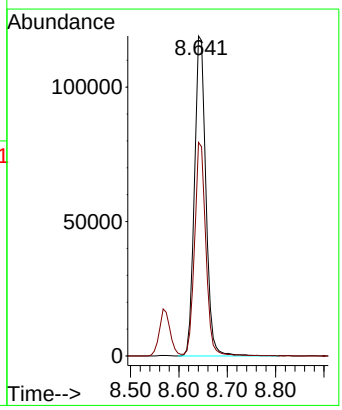


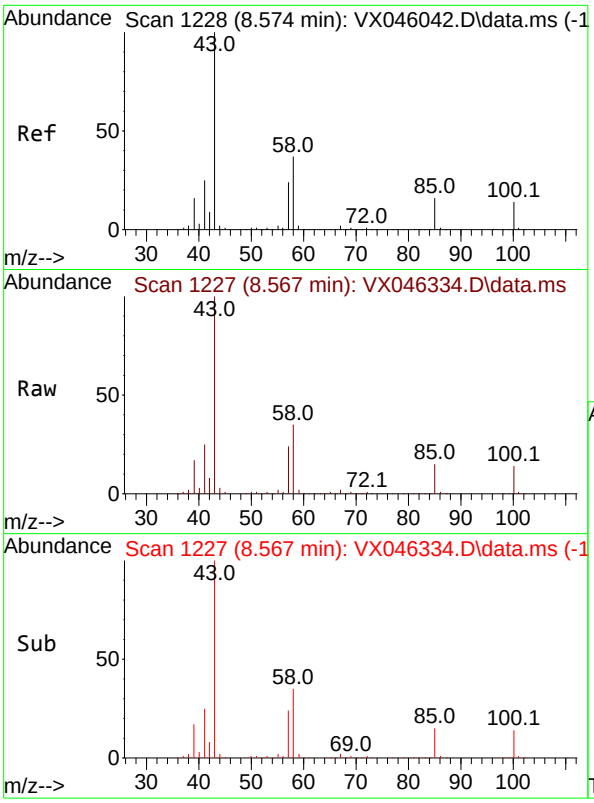


#50
Toluene-d8
Concen: 50.661 ug/l
RT: 8.641 min Scan# 1239
Delta R.T. -0.006 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 98 Resp: 194812

Ion	Ratio	Lower	Upper
98	100		
100	65.3	53.5	80.3



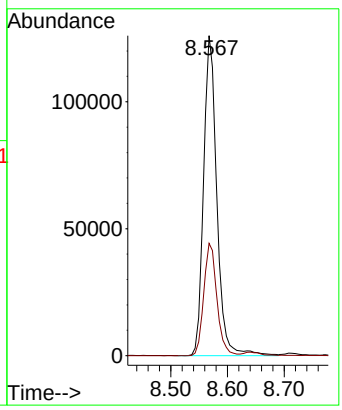


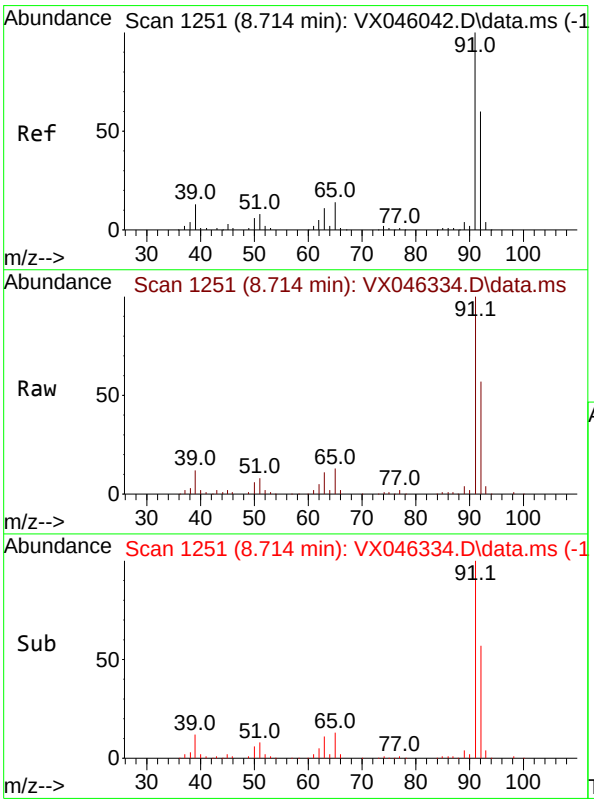
#51
4-Methyl-2-Pentanone
Concen: 109.635 ug/l
RT: 8.567 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

Tgt Ion: 43 Resp: 204759

Ion	Ratio	Lower	Upper
43	100		
58	34.8	28.9	43.3

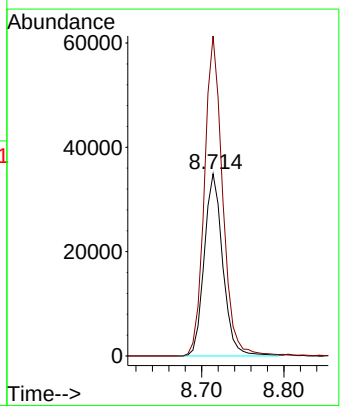


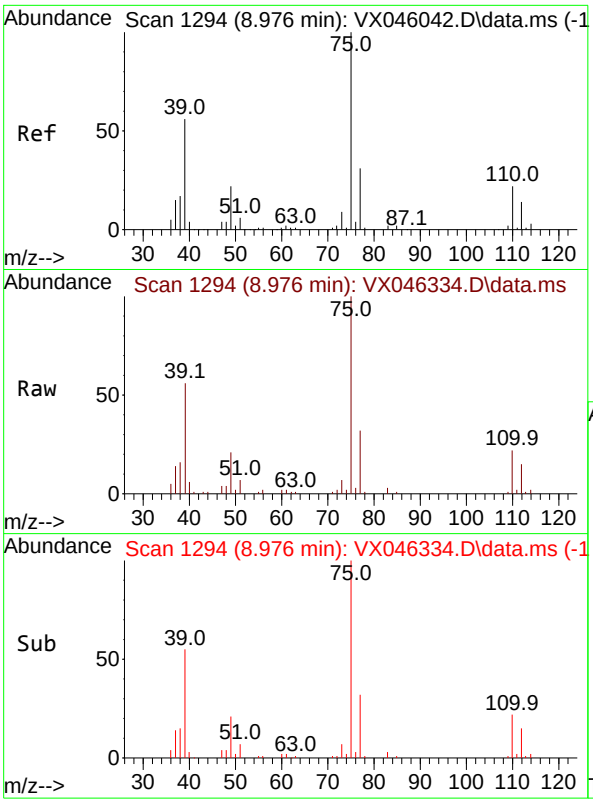


#52
Toluene
Concen: 20.387 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 92 Resp: 54660

Ion	Ratio	Lower	Upper
92	100		
91	173.0	136.6	205.0



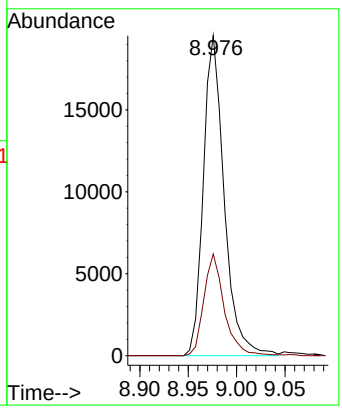


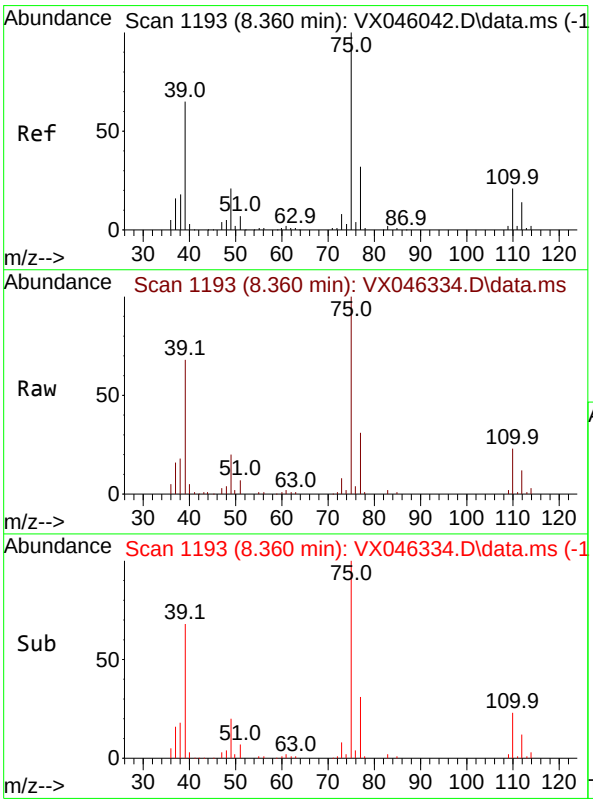
#53
t-1,3-Dichloropropene
Concen: 19.548 ug/l
RT: 8.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

Tgt Ion: 75 Resp: 29346

Ion	Ratio	Lower	Upper
75	100		
77	31.8	25.0	37.6

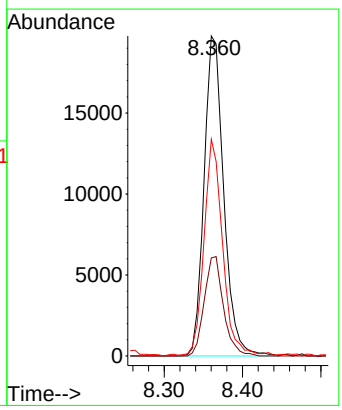


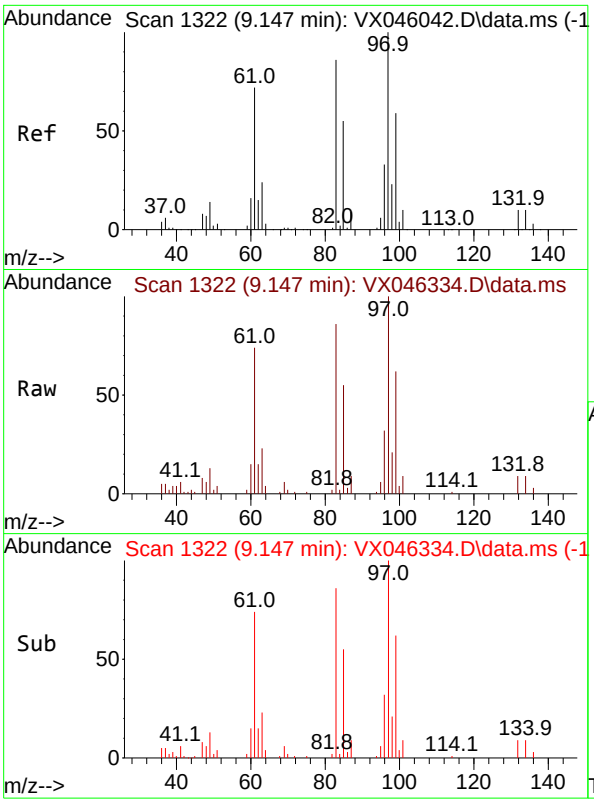


#54
cis-1,3-Dichloropropene
Concen: 20.748 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 75 Resp: 34425

Ion	Ratio	Lower	Upper
75	100		
77	30.6	25.4	38.0
39	67.4	52.2	78.4



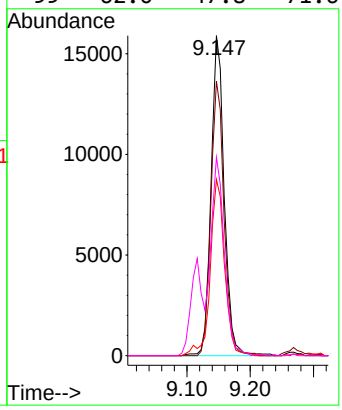


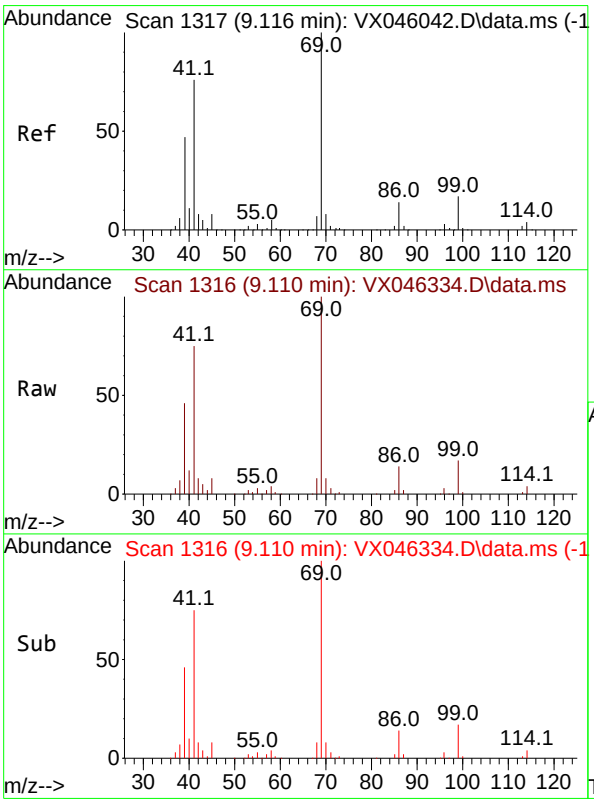
#55
1,1,2-Trichloroethane
Concen: 21.823 ug/l
RT: 9.147 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

Tgt Ion: 97 Resp: 23071

Ion	Ratio	Lower	Upper
97	100		
83	85.8	69.0	103.6
85	55.1	44.3	66.5
99	62.0	47.8	71.6

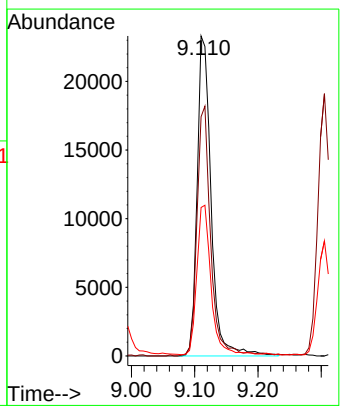


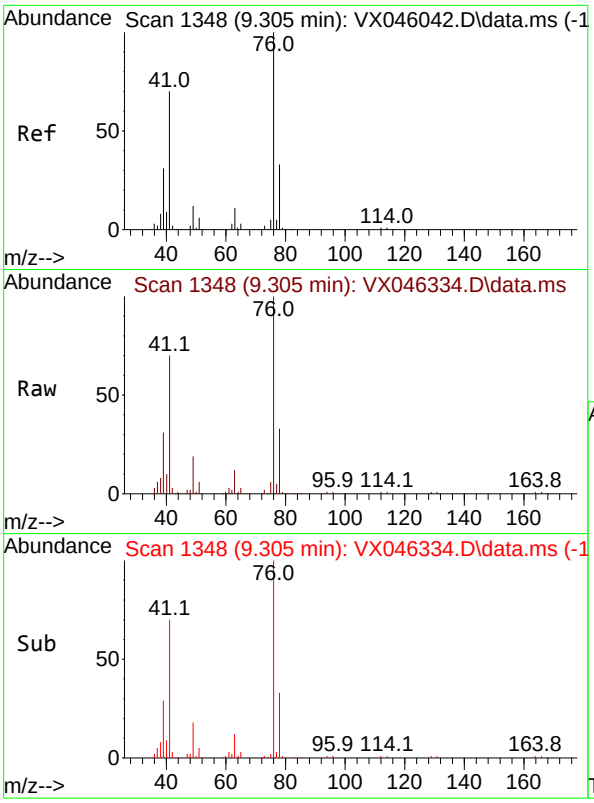


#56
Ethyl methacrylate
Concen: 21.331 ug/l
RT: 9.110 min Scan# 1316
Delta R.T. -0.006 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 69 Resp: 35941

Ion	Ratio	Lower	Upper
69	100		
41	76.1	60.8	91.2
39	47.1	39.0	58.6



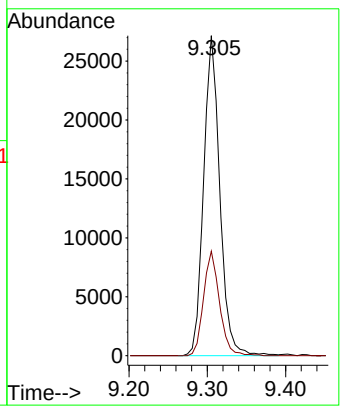


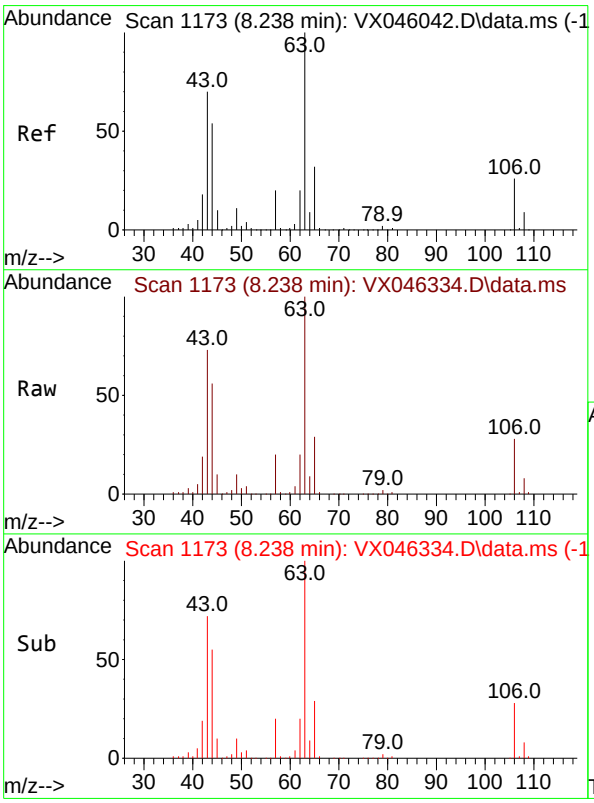
#57
1,3-Dichloropropane
Concen: 20.522 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

Tgt Ion: 76 Resp: 38963

Ion	Ratio	Lower	Upper
76	100		
78	32.2	26.3	39.5

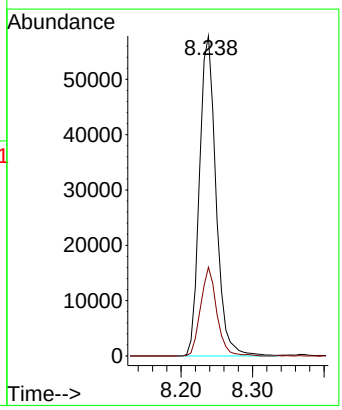


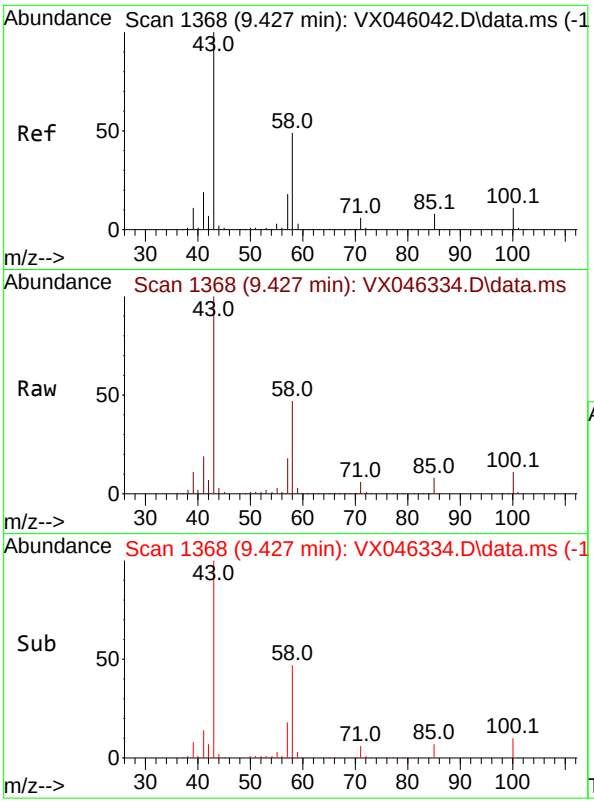


#58
2-Chloroethyl Vinyl ether
Concen: 108.093 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 63 Resp: 92851

Ion	Ratio	Lower	Upper
63	100		
106	27.1	21.5	32.3



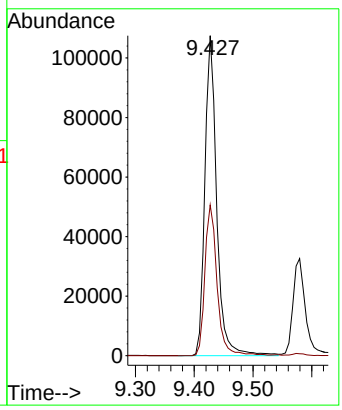


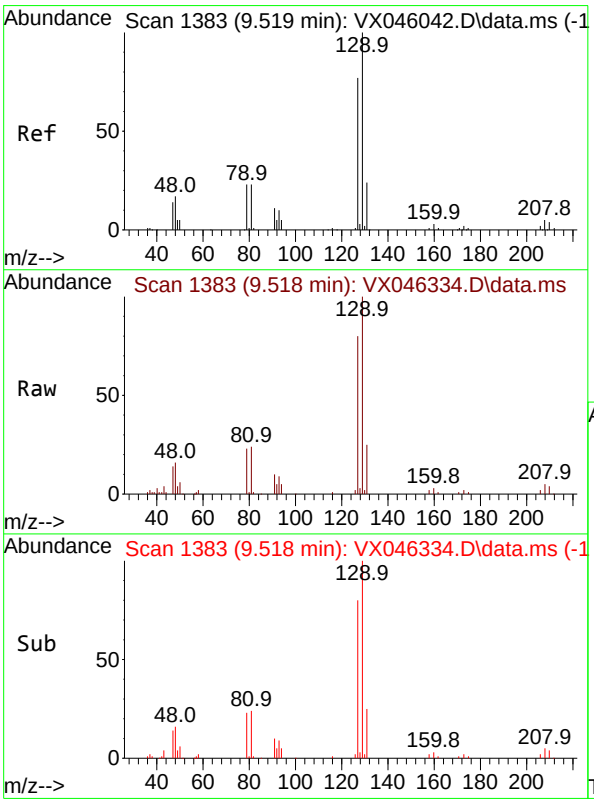
#59
2-Hexanone
Concen: 109.257 ug/l
RT: 9.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

Tgt Ion: 43 Resp: 150965

Ion	Ratio	Lower	Upper
43	100		
58	48.5	24.9	74.6

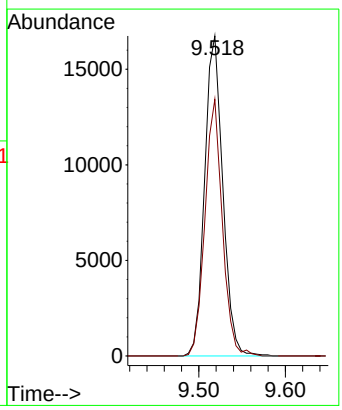


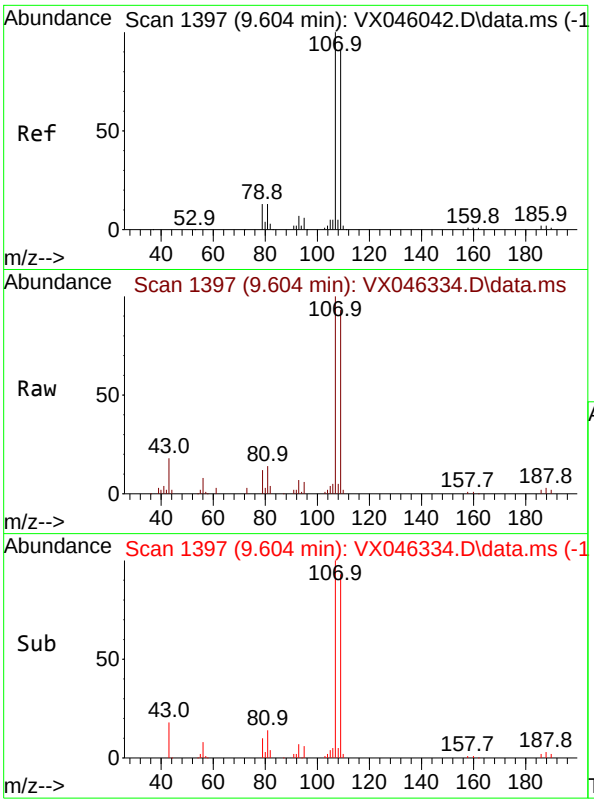


#60
Dibromochloromethane
Concen: 20.981 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion:129 Resp: 24359

Ion	Ratio	Lower	Upper
129	100		
127	77.0	39.3	117.8



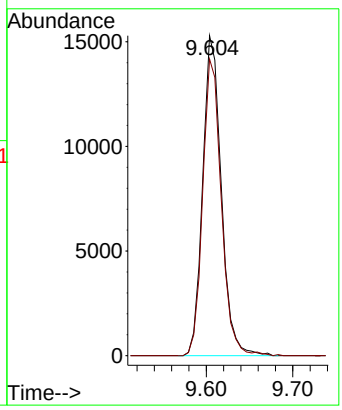


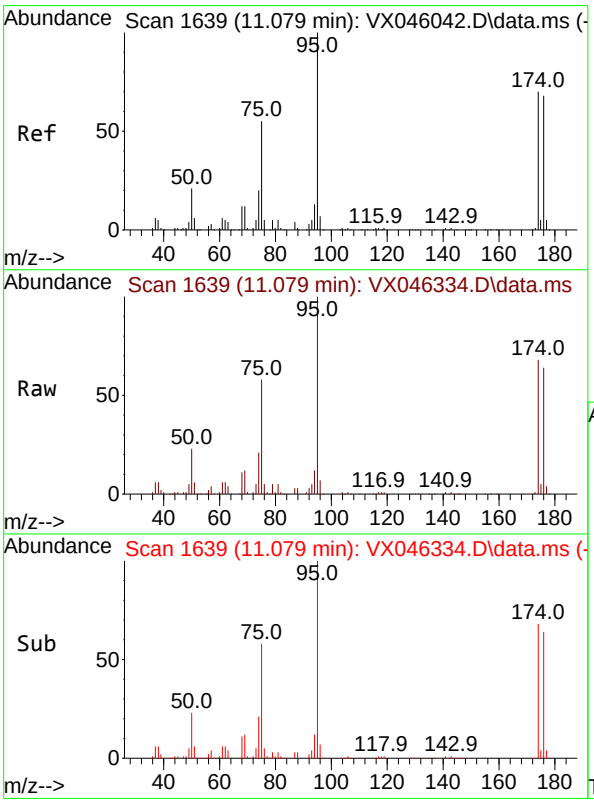
#61
1,2-Dibromoethane
Concen: 20.748 ug/l
RT: 9.604 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

Tgt Ion:107 Resp: 22797

Ion	Ratio	Lower	Upper
107	100		
109	92.9	73.3	109.9

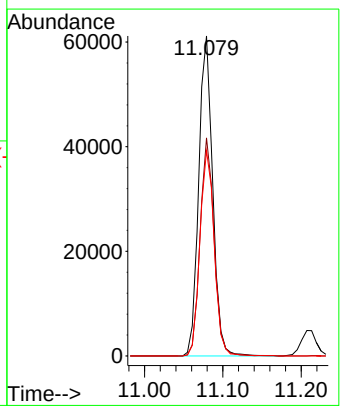


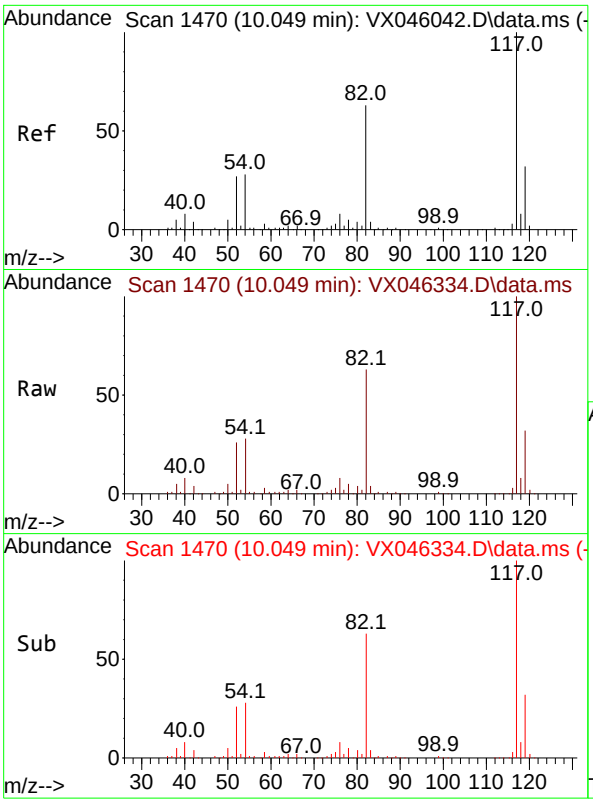


#62
4-Bromofluorobenzene
Concen: 51.423 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 95 Resp: 75851

Ion	Ratio	Lower	Upper
95	100		
174	67.7	0.0	135.8
176	65.6	0.0	131.4



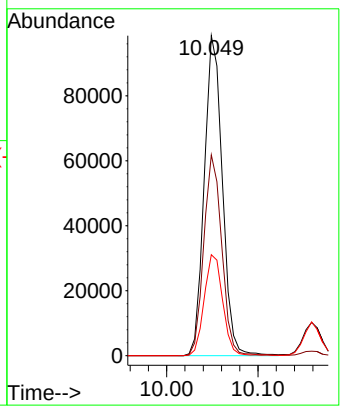


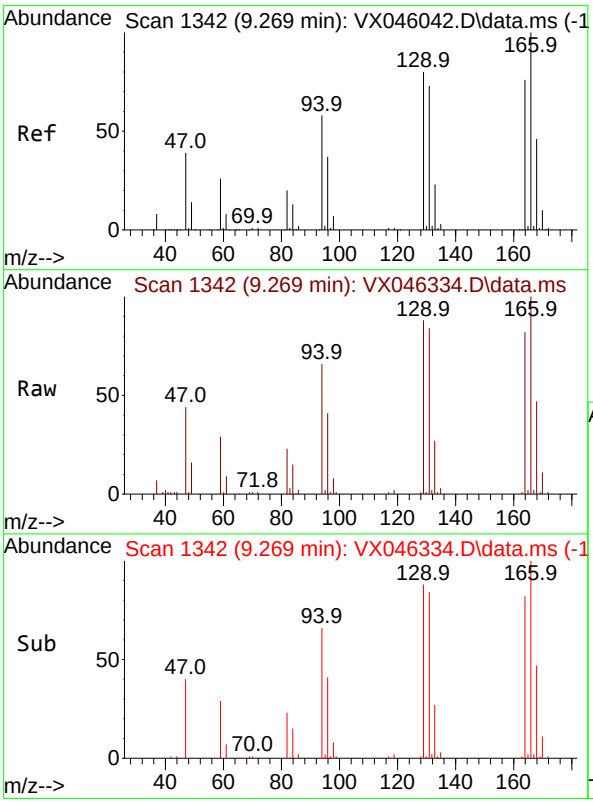
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

Tgt Ion:117 Resp: 135355

Ion	Ratio	Lower	Upper
117	100		
82	62.8	50.6	76.0
119	31.5	25.8	38.6

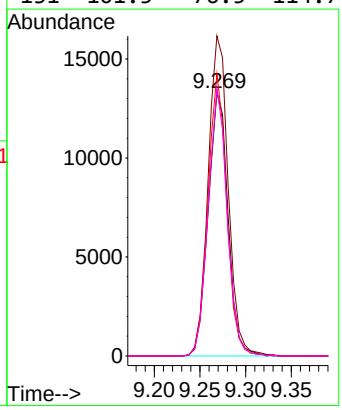


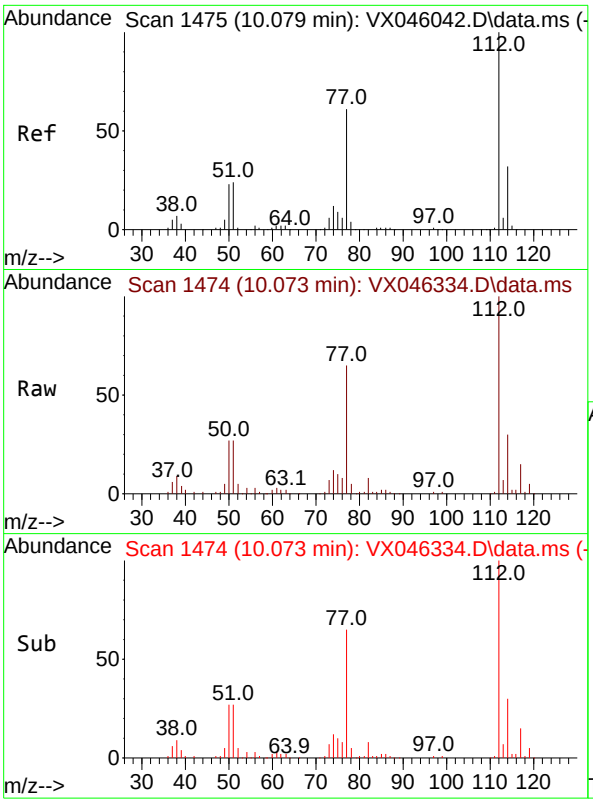


#64
Tetrachloroethene
Concen: 20.878 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion:164 Resp: 19995

Ion	Ratio	Lower	Upper
164	100		
166	121.5	105.0	157.6
129	107.0	83.5	125.3
131	101.5	76.5	114.7



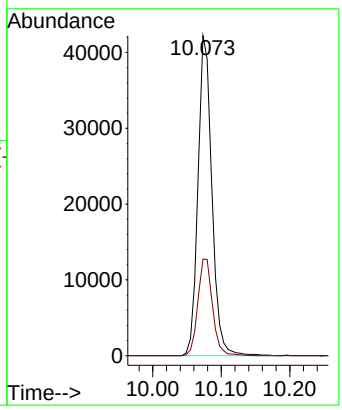


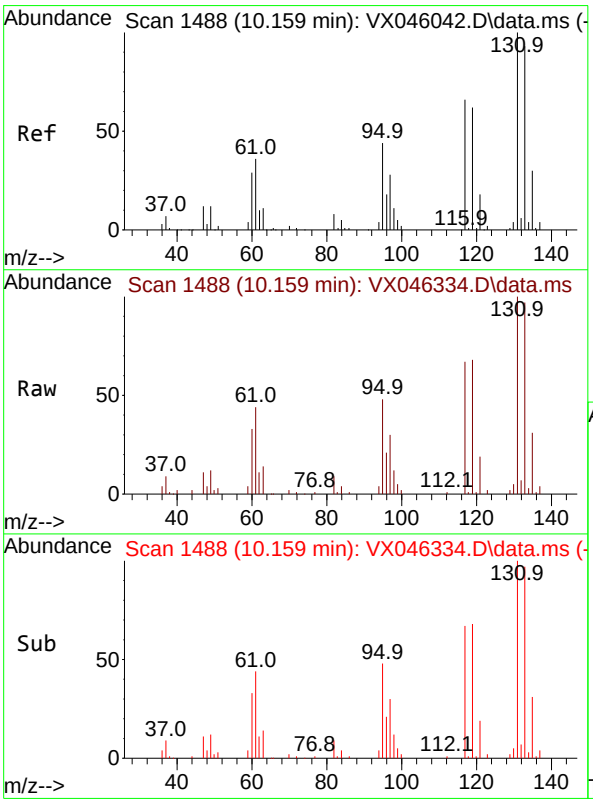
#65
Chlorobenzene
Concen: 20.149 ug/l
RT: 10.073 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

Tgt Ion:112 Resp: 59694

Ion	Ratio	Lower	Upper
112	100		
114	30.1	25.4	38.2

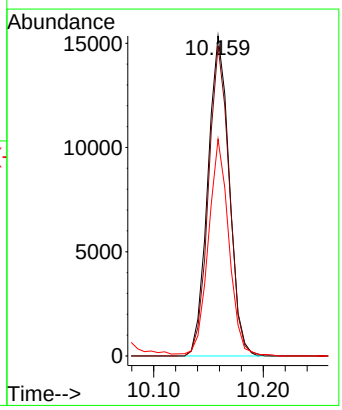


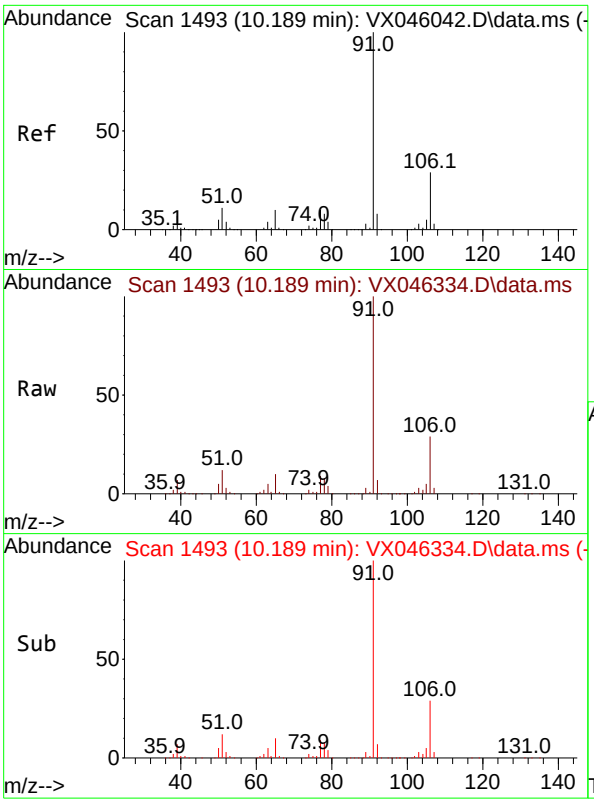


#66
1,1,1,2-Tetrachloroethane
Concen: 20.551 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion:131 Resp: 20790

Ion	Ratio	Lower	Upper
131	100		
133	94.0	47.3	141.9
119	64.9	31.6	95.0



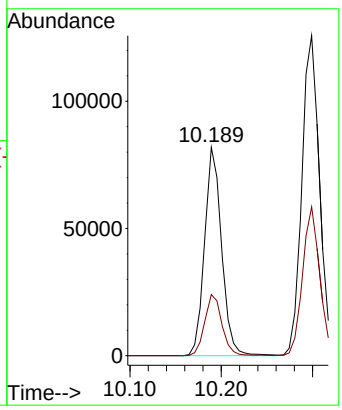


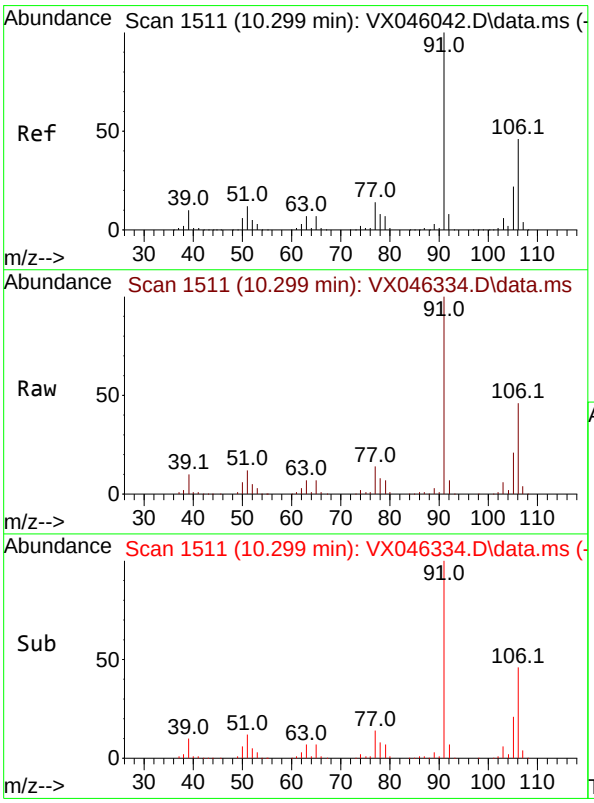
#67
Ethyl Benzene
Concen: 20.280 ug/l
RT: 10.189 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

Tgt Ion: 91 Resp: 105906

Ion	Ratio	Lower	Upper
91	100		
106	29.4	23.4	35.2

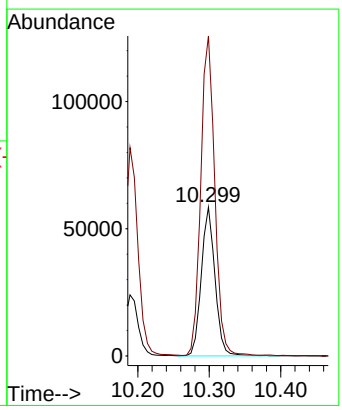


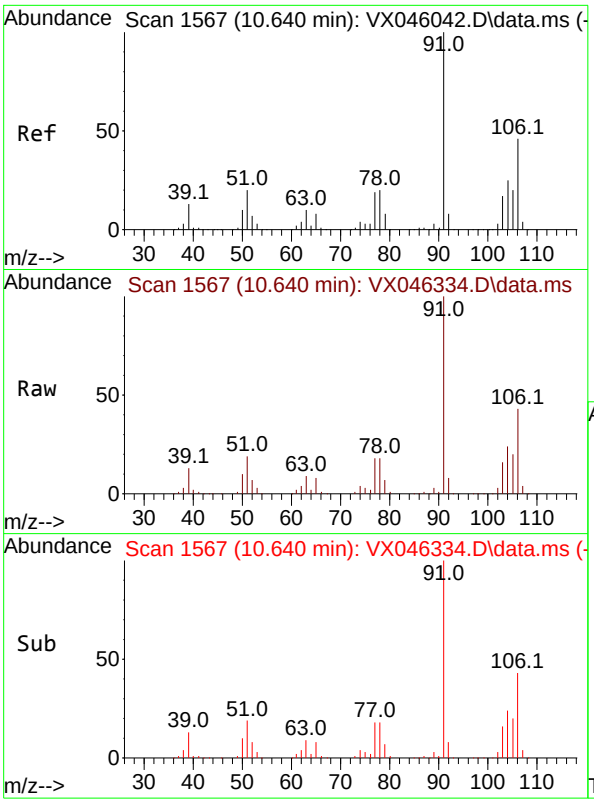


#68
m/p-Xylenes
Concen: 40.642 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion:106 Resp: 77627

Ion	Ratio	Lower	Upper
106	100		
91	220.2	171.2	256.8



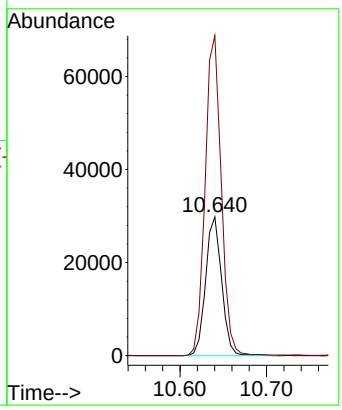


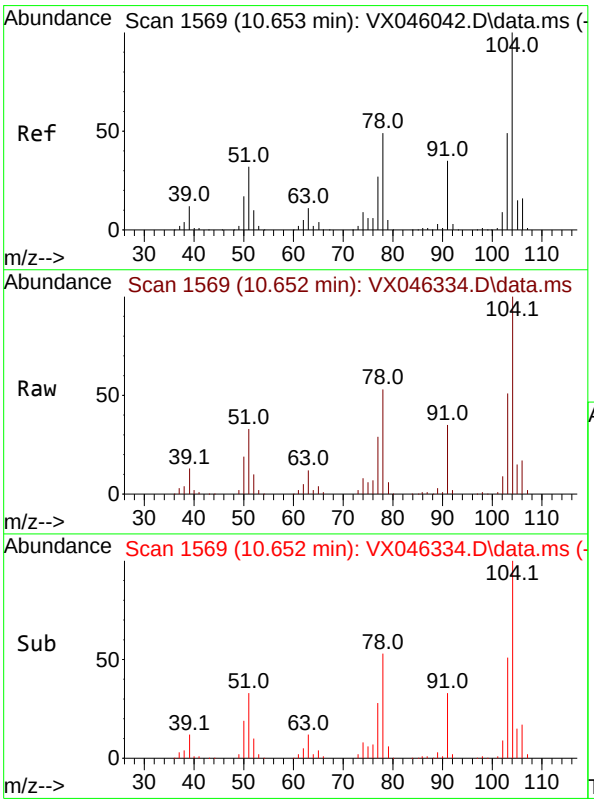
#69
o-Xylene
Concen: 20.548 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

Tgt Ion:106 Resp: 38262

Ion	Ratio	Lower	Upper
106	100		
91	232.6	112.7	338.1

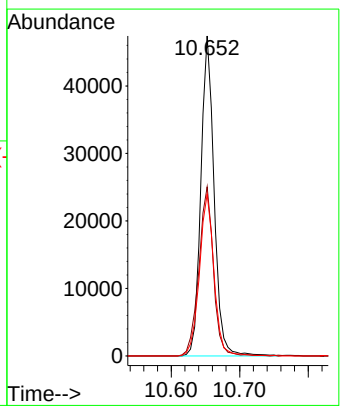


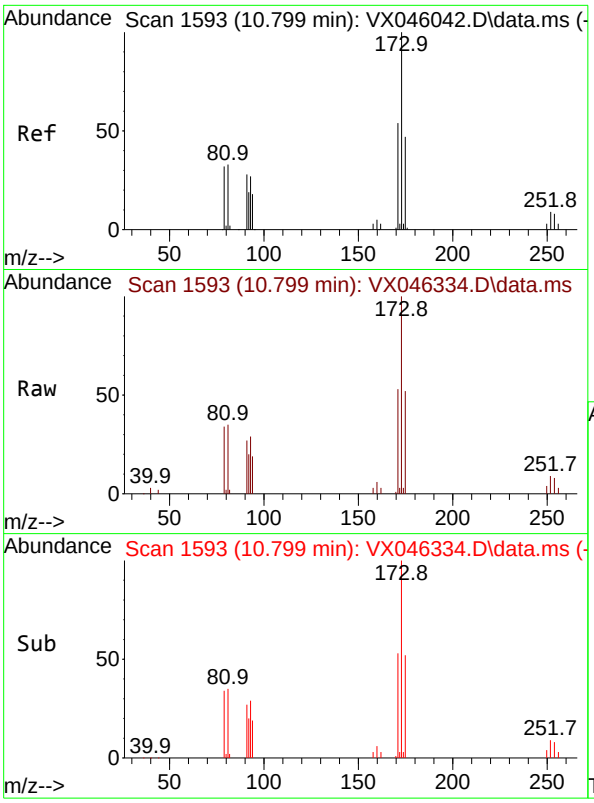


#70
Styrene
Concen: 20.979 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion:104 Resp: 63992

Ion	Ratio	Lower	Upper
104	100		
78	58.3	45.7	68.5
103	55.7	43.7	65.5



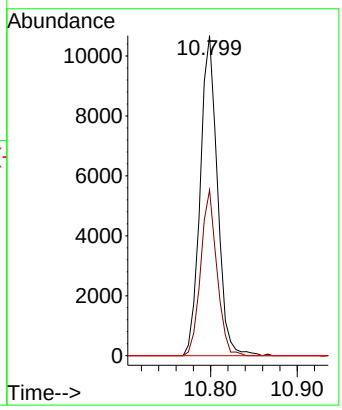


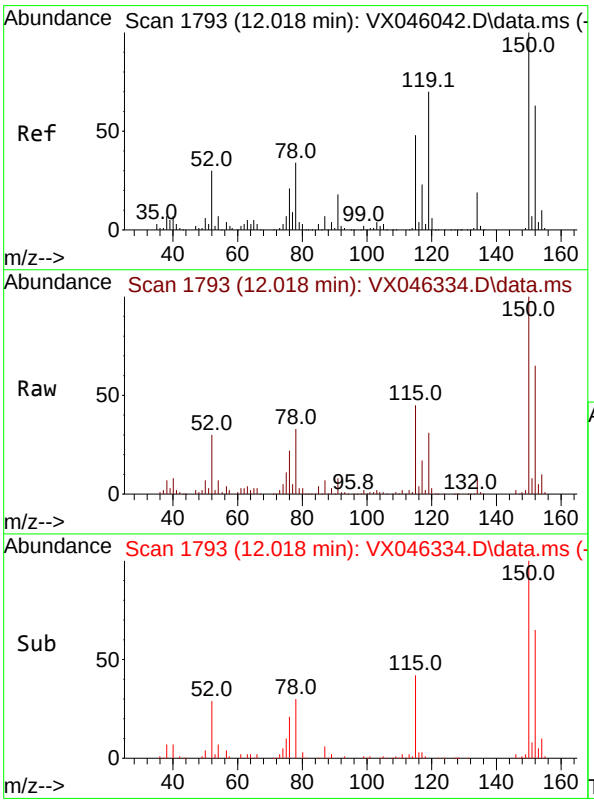
#71
Bromoform
Concen: 19.369 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

Tgt Ion:173 Resp: 14711

Ion	Ratio	Lower	Upper
173	100		
175	48.6	23.4	70.0
254	0.0	0.0	0.0

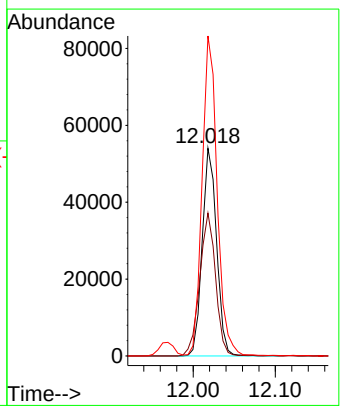


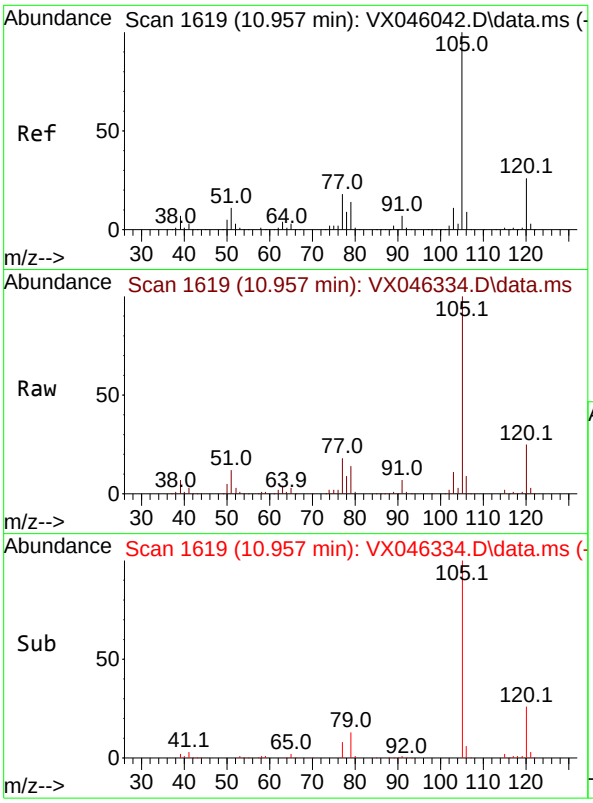


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion:152 Resp: 65596

Ion	Ratio	Lower	Upper
152	100		
115	75.8	46.9	140.7
150	161.5	0.0	351.0



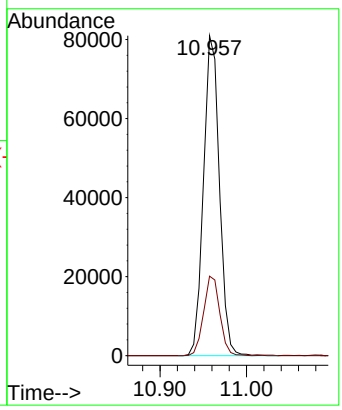


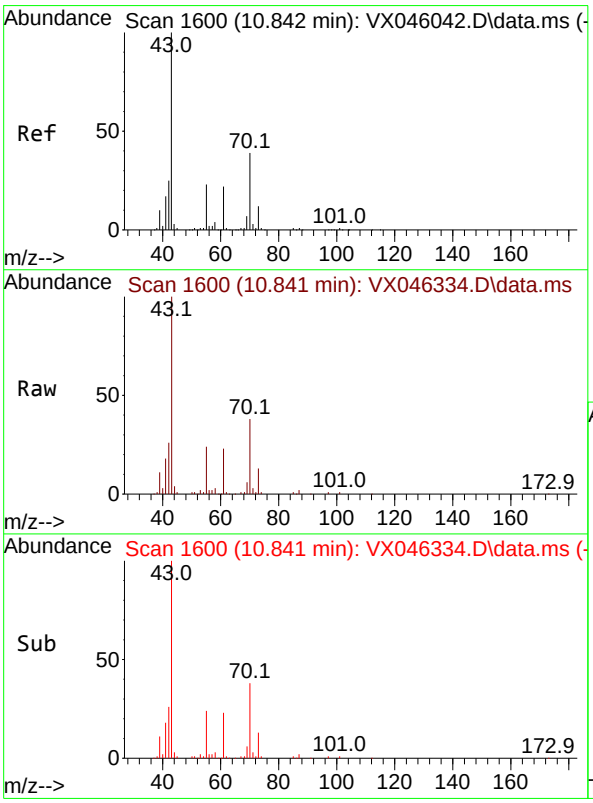
#73
Isopropylbenzene
Concen: 20.246 ug/l
RT: 10.957 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

Tgt Ion:105 Resp: 103395

Ion	Ratio	Lower	Upper
105	100		
120	25.2	12.8	38.4

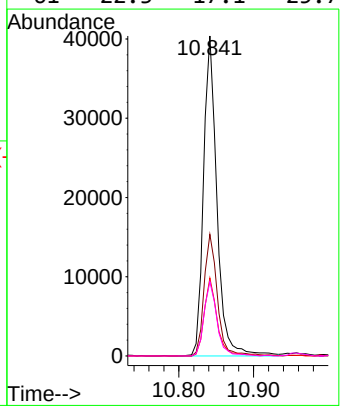


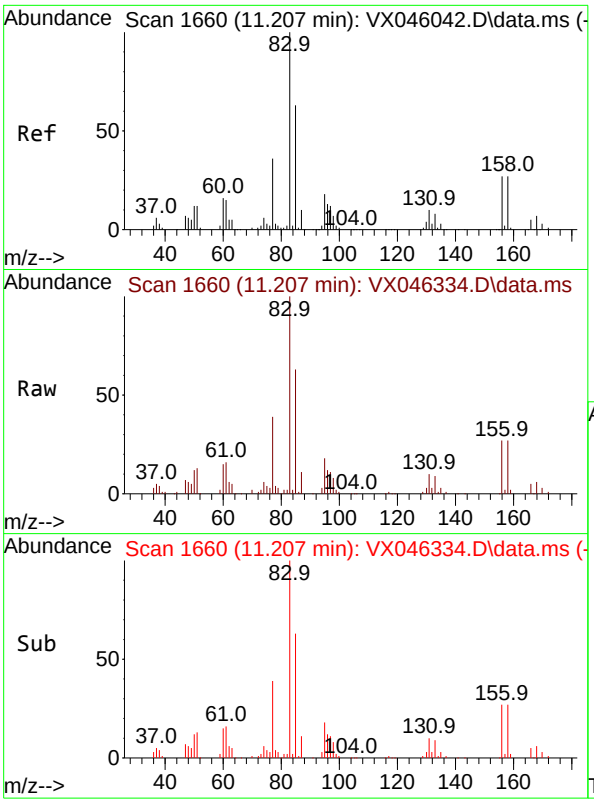


#74
N-amyl acetate
Concen: 19.965 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 43 Resp: 50382

Ion	Ratio	Lower	Upper
43	100		
70	37.9	30.9	46.3
55	23.4	18.7	28.1
61	22.3	17.1	25.7



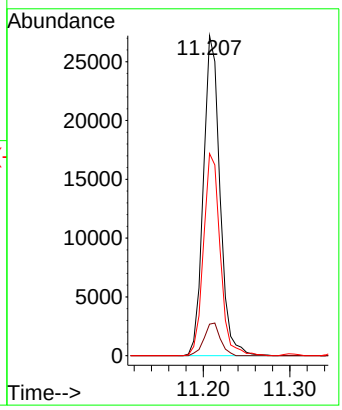


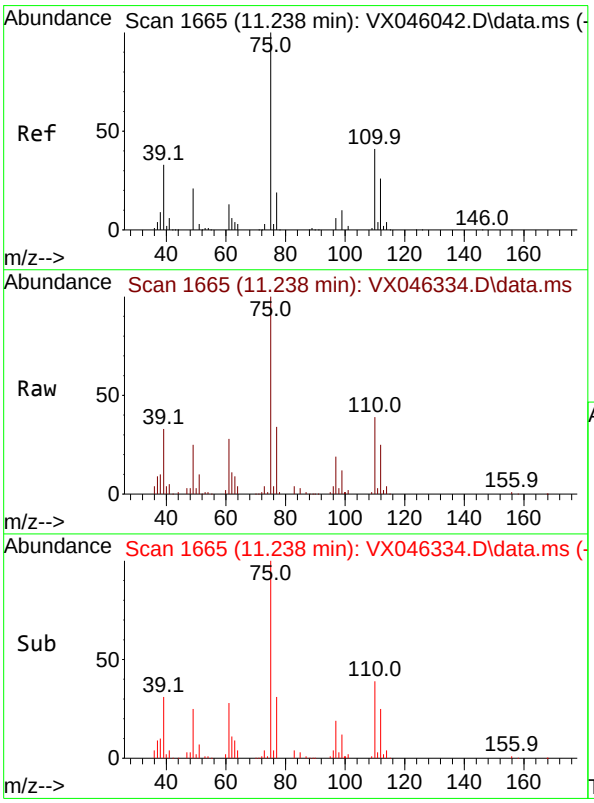
#75
1,1,2,2-Tetrachloroethane
Concen: 20.176 ug/l
RT: 11.207 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

Tgt Ion: 83 Resp: 36107

Ion	Ratio	Lower	Upper
83	100		
131	10.1	5.0	14.9
85	63.6	31.9	95.7

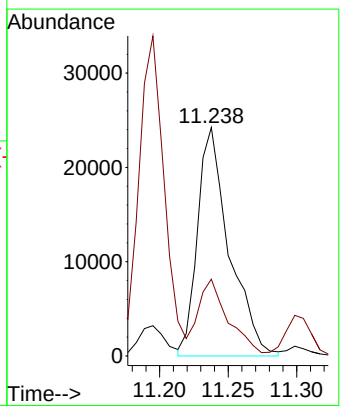


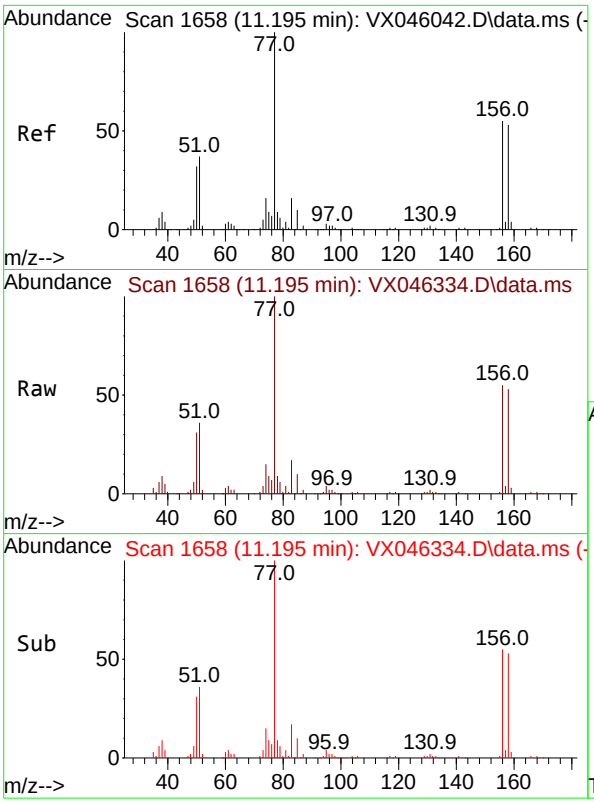


#76
1,2,3-Trichloropropane
Concen: 24.746 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 75 Resp: 39072

Ion	Ratio	Lower	Upper
75	100		
77	32.1	20.5	61.5



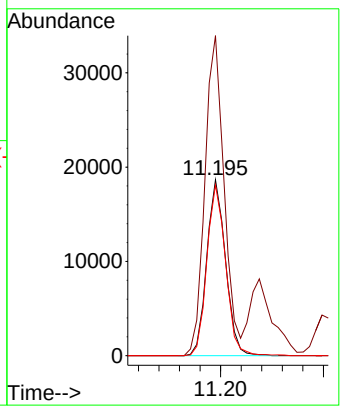


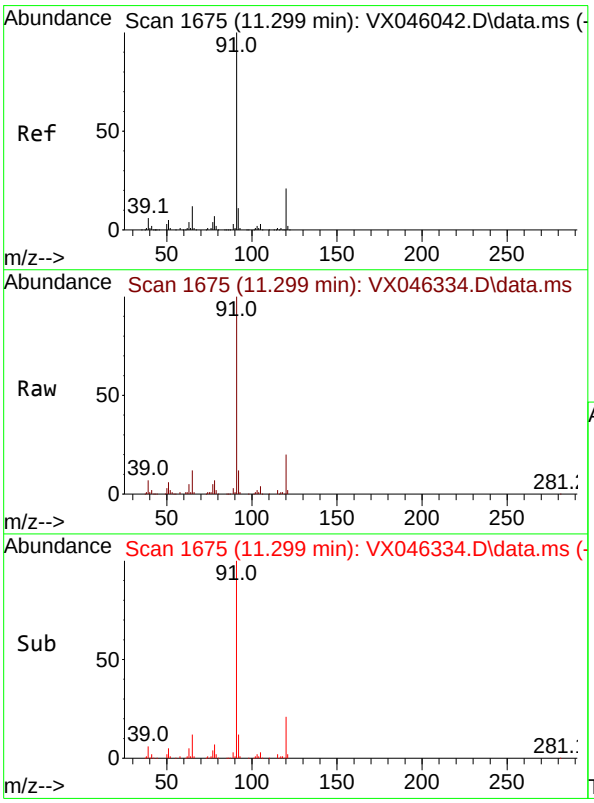
#77
Bromobenzene
Concen: 19.979 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

Tgt Ion:156 Resp: 23688

Ion	Ratio	Lower	Upper
156	100		
77	186.0	92.8	278.3
158	97.0	48.8	146.3

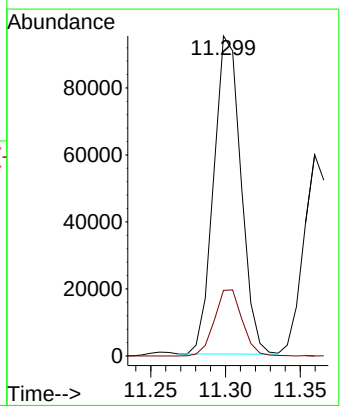


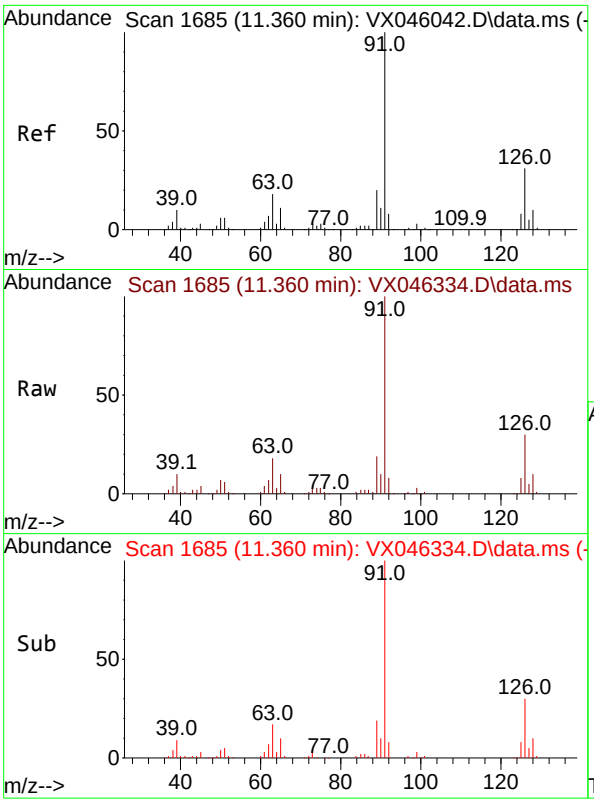


#78
n-propylbenzene
Concen: 20.282 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 91 Resp: 120436

Ion	Ratio	Lower	Upper
91	100		
120	21.2	10.8	32.4



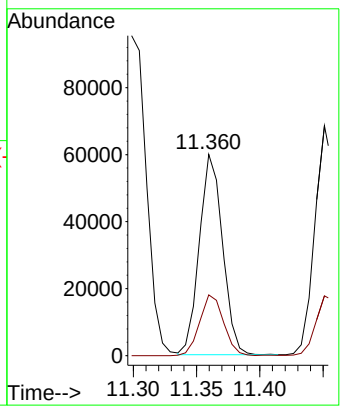


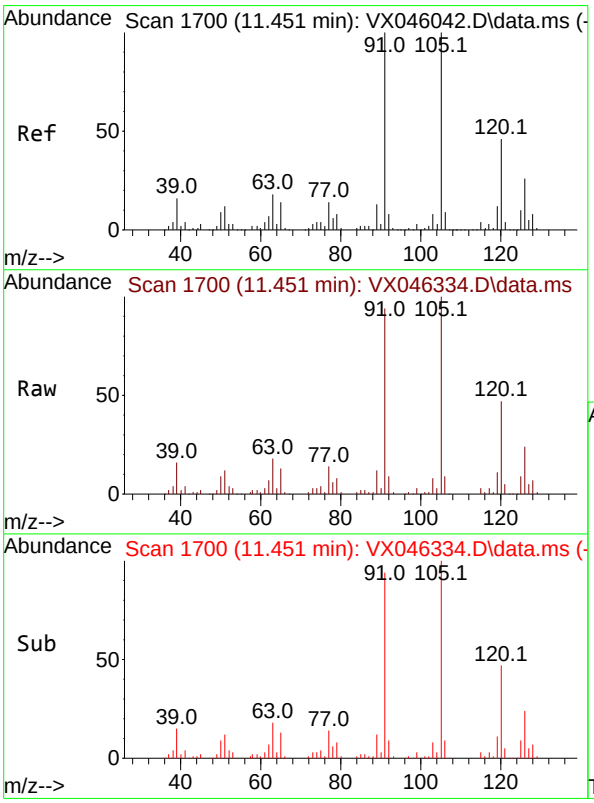
#79
2-Chlorotoluene
Concen: 19.991 ug/l
RT: 11.360 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

Tgt Ion: 91 Resp: 76565

Ion	Ratio	Lower	Upper
91	100		
126	31.5	15.6	46.7

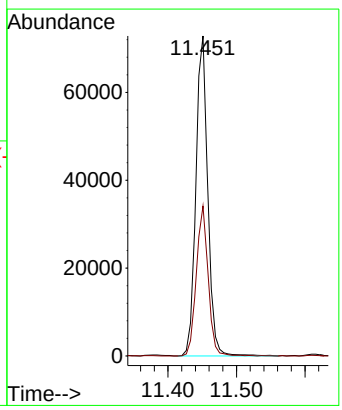


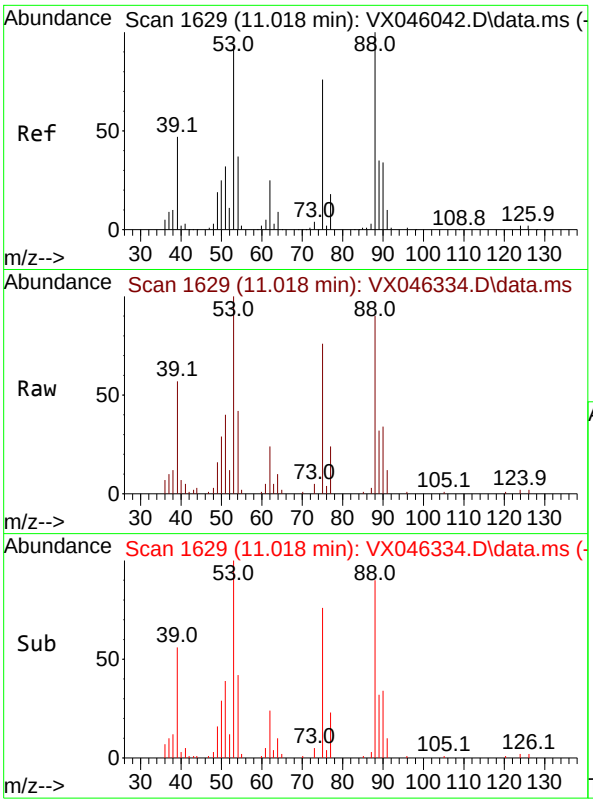


#80
1,3,5-Trimethylbenzene
Concen: 20.669 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion:105 Resp: 88181

Ion	Ratio	Lower	Upper
105	100		
120	46.7	23.1	69.2



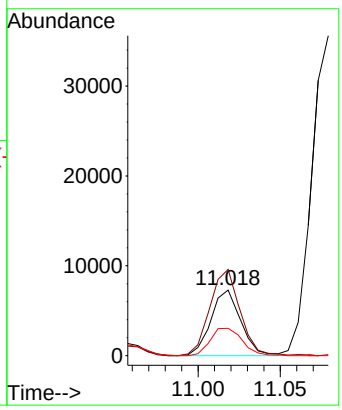


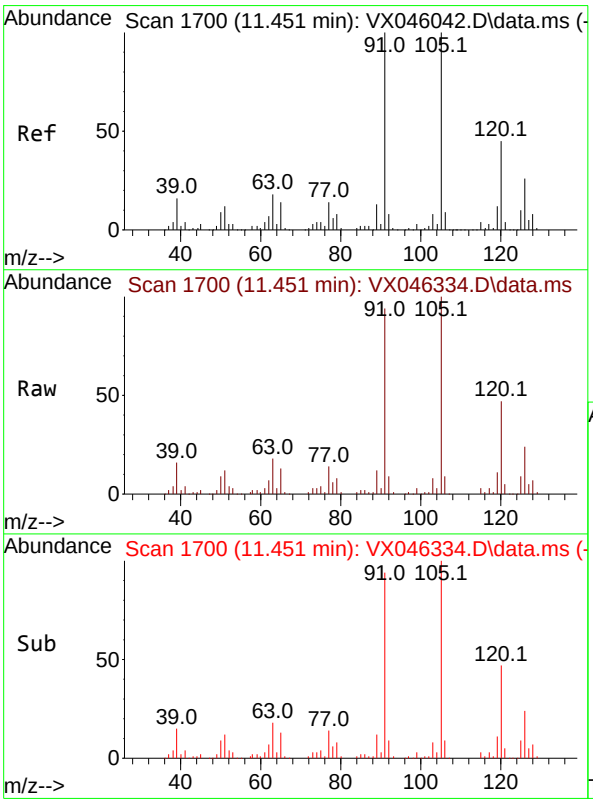
#81
trans-1,4-Dichloro-2-butene
Concen: 19.044 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

Tgt Ion: 75 Resp: 9236

Ion	Ratio	Lower	Upper
75	100		
53	132.8	100.5	150.7
89	44.7	37.0	55.6

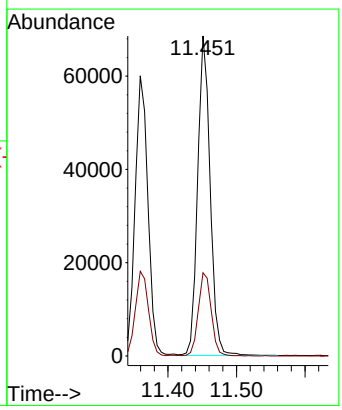


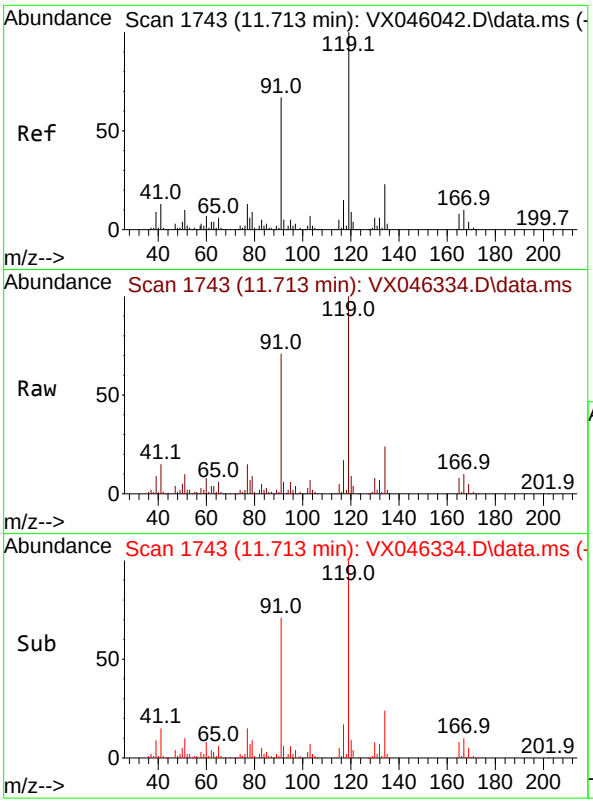


#82
4-Chlorotoluene
Concen: 20.476 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 91 Resp: 86969

Ion	Ratio	Lower	Upper
91	100		
126	26.9	13.3	39.8



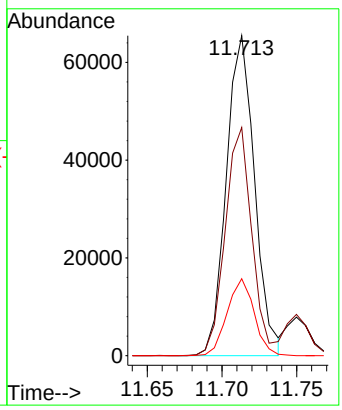


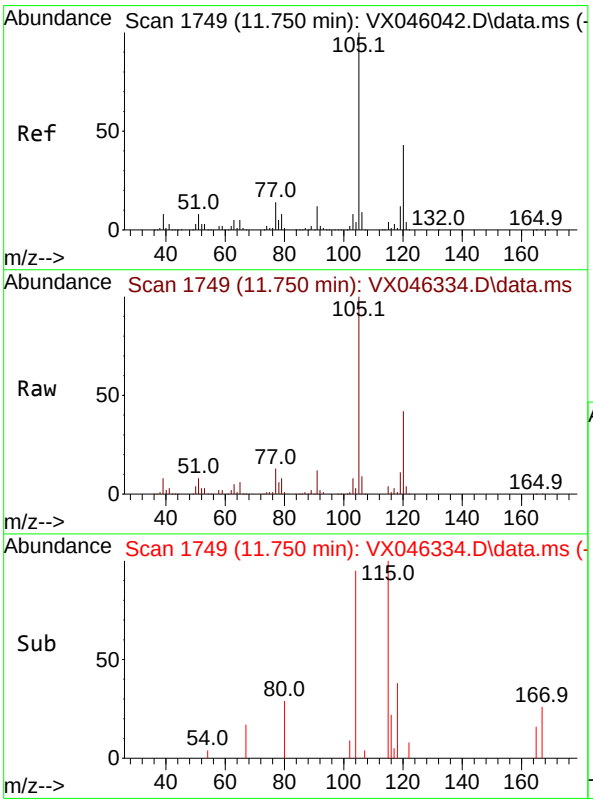
#83
tert-Butylbenzene
Concen: 20.063 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

Tgt Ion:119 Resp: 86219

Ion	Ratio	Lower	Upper
119	100		
91	66.7	32.9	98.7
134	22.9	11.4	34.1

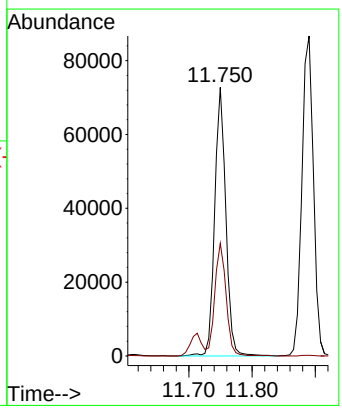


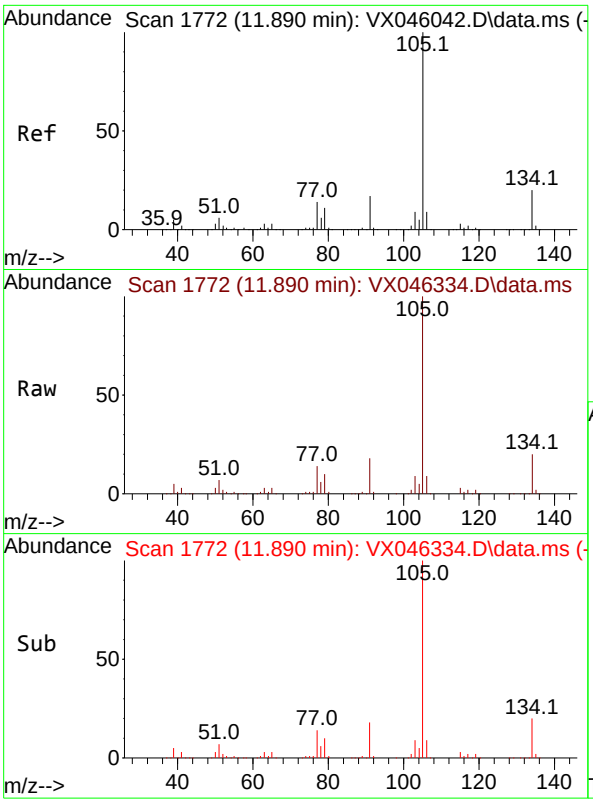


#84
1,2,4-Trimethylbenzene
Concen: 20.580 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion:105 Resp: 88916

Ion	Ratio	Lower	Upper
105	100		
120	42.6	21.2	63.6



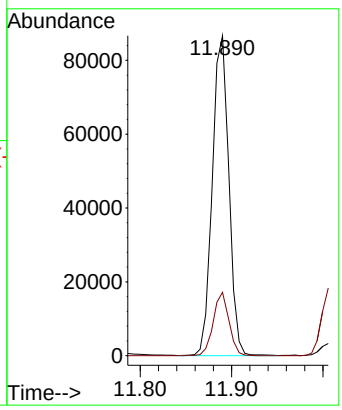


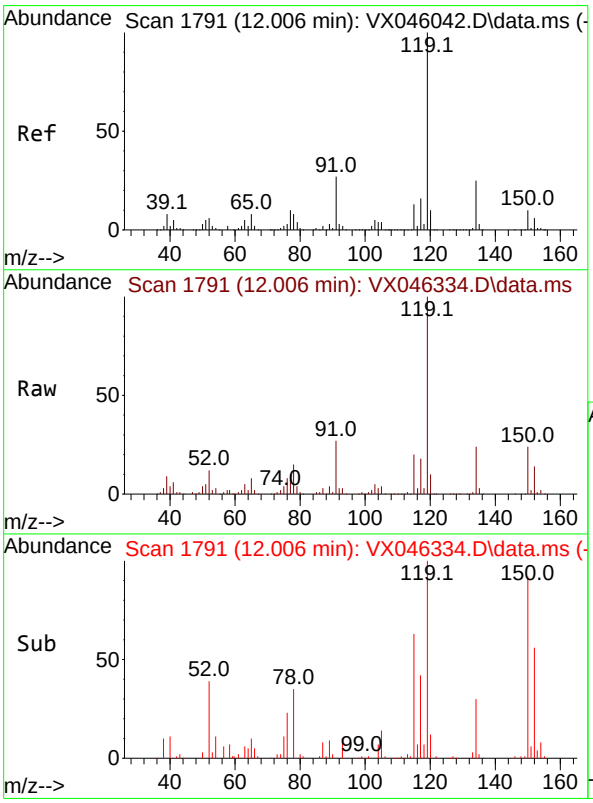
#85
sec-Butylbenzene
Concen: 20.640 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

Tgt Ion:105 Resp: 108908

Ion	Ratio	Lower	Upper
105	100		
134	18.8	9.7	29.1

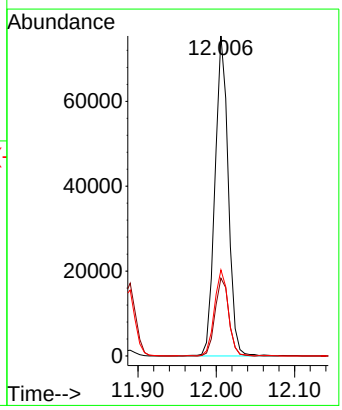


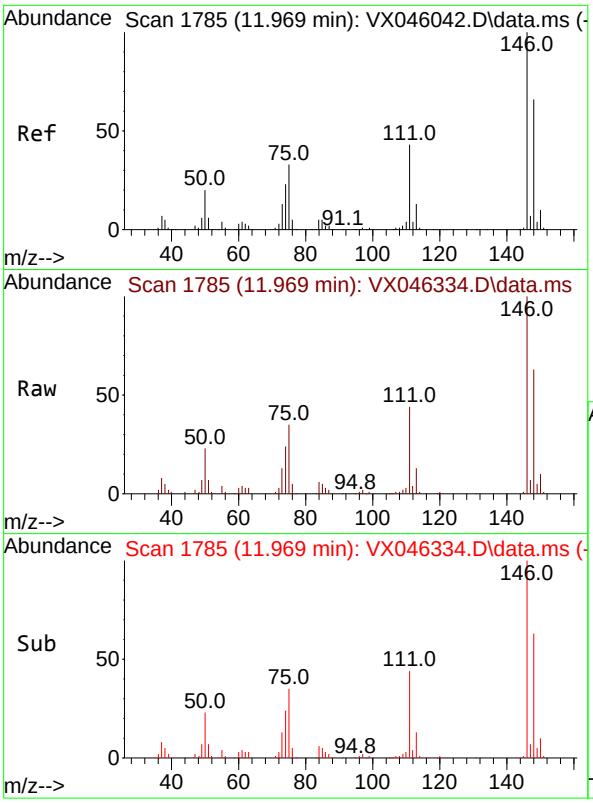


#86
p-Isopropyltoluene
Concen: 20.402 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion:119 Resp: 88860

Ion	Ratio	Lower	Upper
119	100		
134	25.1	12.5	37.5
91	27.9	13.8	41.4



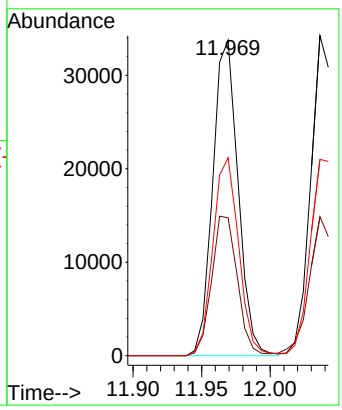


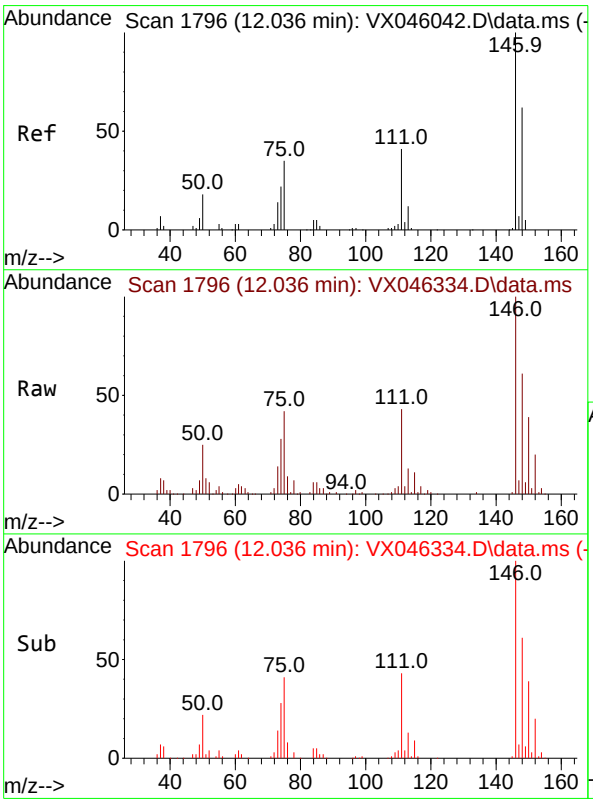
#87
1,3-Dichlorobenzene
Concen: 20.048 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

Tgt Ion:146 Resp: 43379

Ion	Ratio	Lower	Upper
146	100		
111	45.0	22.1	66.3
148	64.0	32.1	96.5

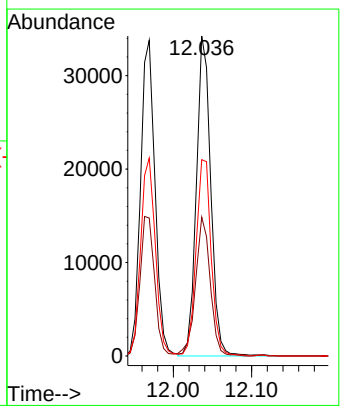


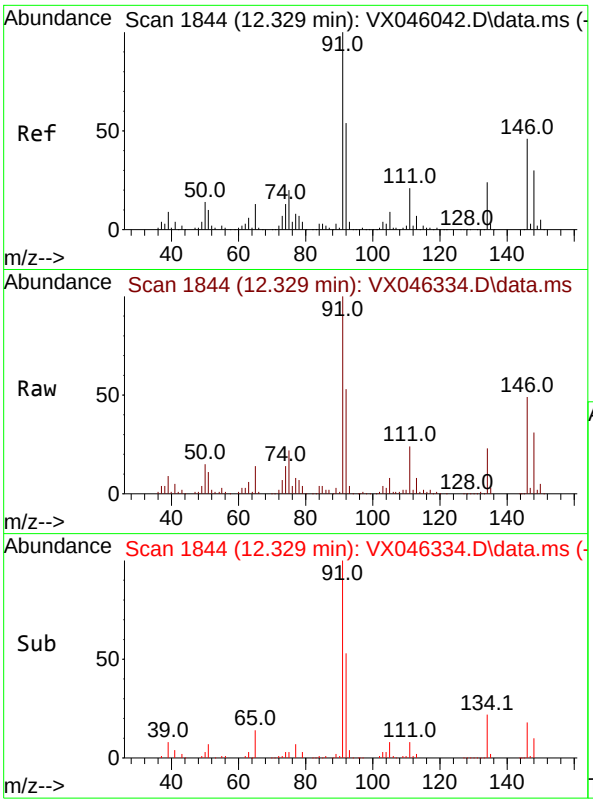


#88
1,4-Dichlorobenzene
Concen: 19.826 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion:146 Resp: 43812

Ion	Ratio	Lower	Upper
146	100		
111	44.6	21.3	63.9
148	64.6	31.9	95.5



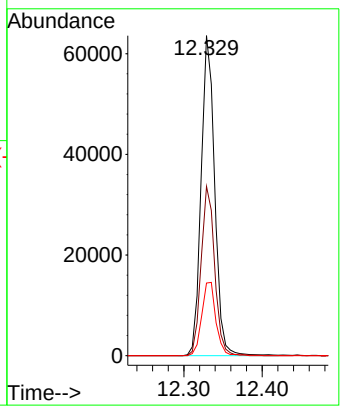


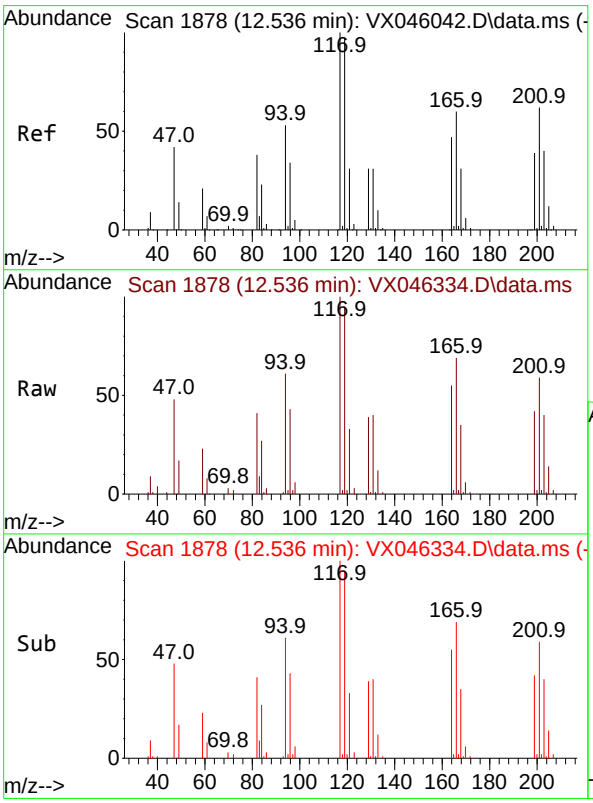
#89
n-Butylbenzene
Concen: 19.997 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

Tgt Ion: 91 Resp: 76398

Ion	Ratio	Lower	Upper
91	100		
92	53.0	26.9	80.7
134	23.9	11.8	35.3

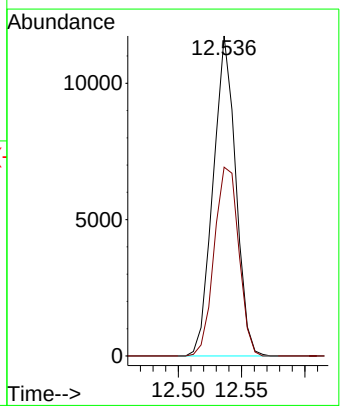


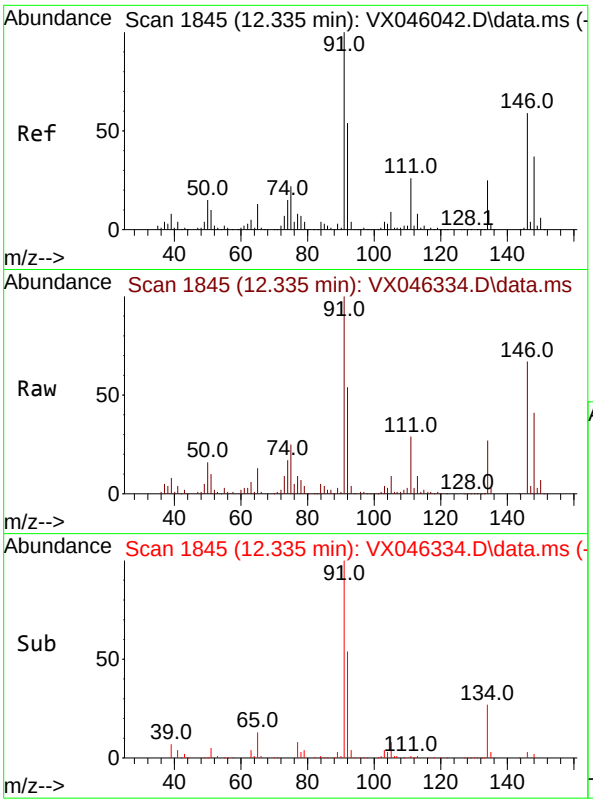


#90
Hexachloroethane
Concen: 18.984 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion:117 Resp: 14567

Ion	Ratio	Lower	Upper
117	100		
201	64.1	31.6	94.7



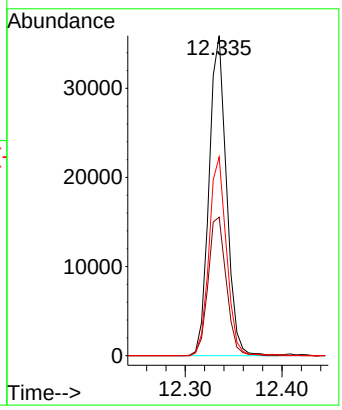


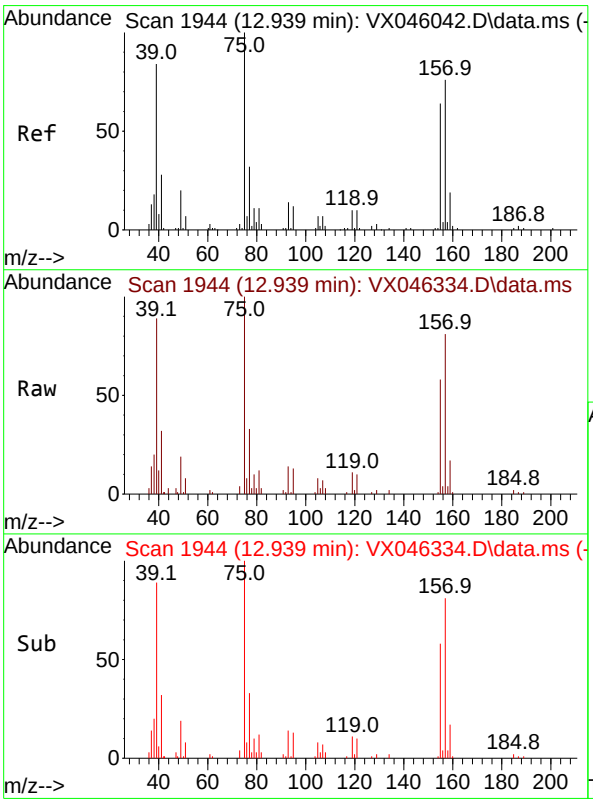
#91
1,2-Dichlorobenzene
Concen: 20.645 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

Tgt Ion:146 Resp: 44827

Ion	Ratio	Lower	Upper
146	100		
111	45.2	22.4	67.3
148	62.4	31.6	94.8

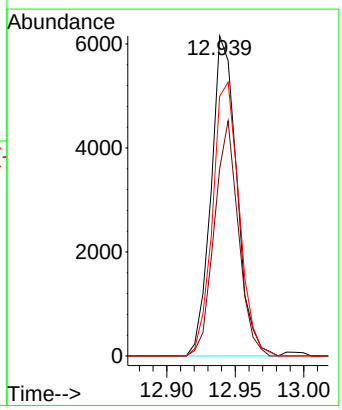


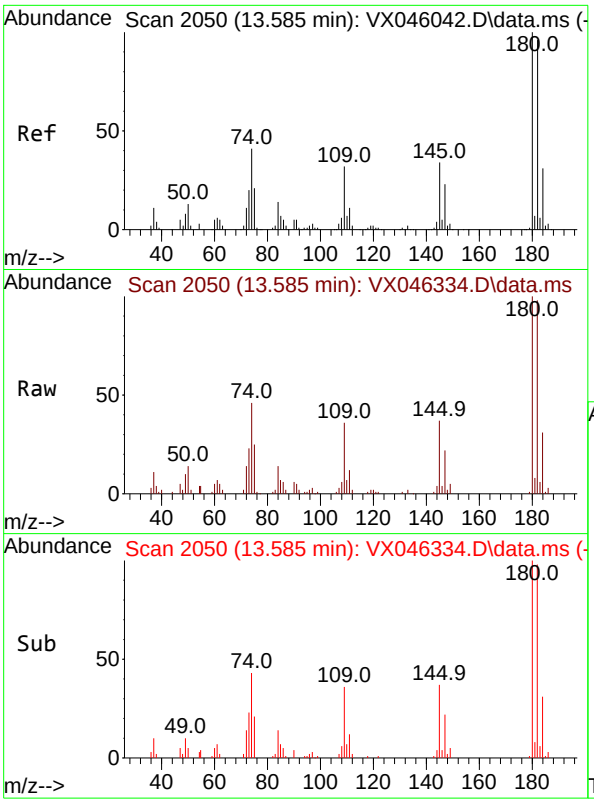


#92
1,2-Dibromo-3-Chloropropane
Concen: 20.242 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion: 75 Resp: 8025

Ion	Ratio	Lower	Upper
75	100		
155	68.6	34.9	104.8
157	88.4	43.8	131.4



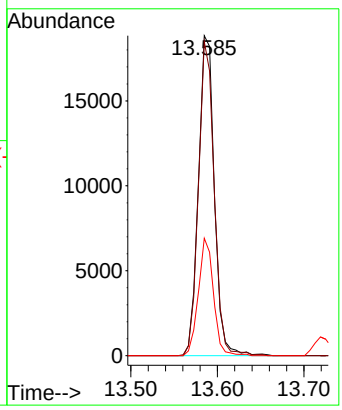


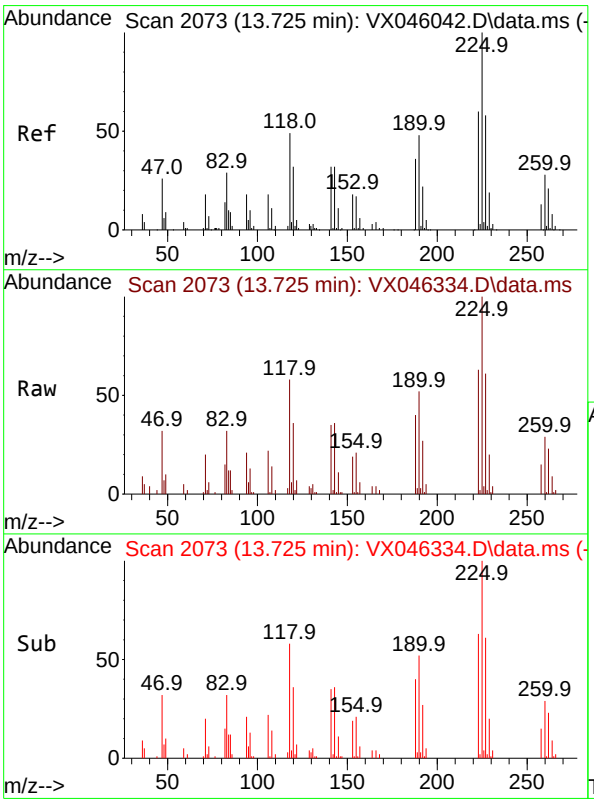
#93
1,2,4-Trichlorobenzene
Concen: 19.356 ug/l
RT: 13.585 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

Tgt Ion:180 Resp: 24140

Ion	Ratio	Lower	Upper
180	100		
182	96.5	47.9	143.8
145	34.8	17.1	51.2

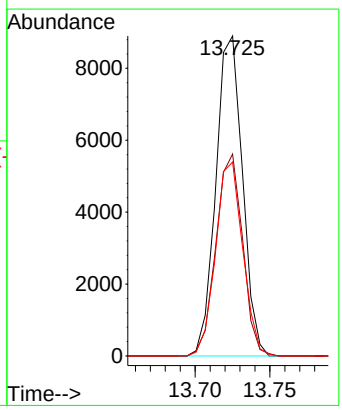


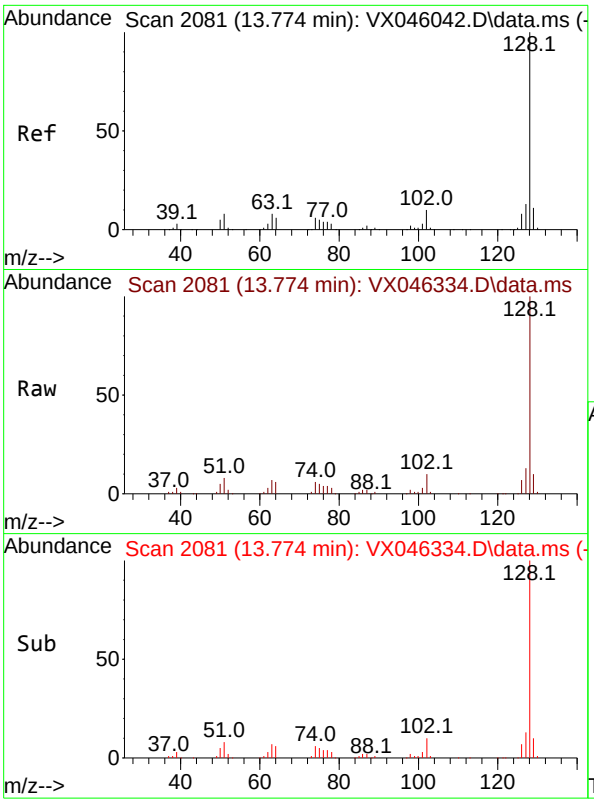


#94
Hexachlorobutadiene
Concen: 20.225 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion:225 Resp: 11016

Ion	Ratio	Lower	Upper
225	100		
223	63.1	30.8	92.4
227	61.8	30.9	92.7



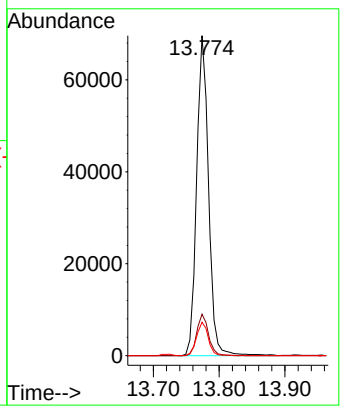


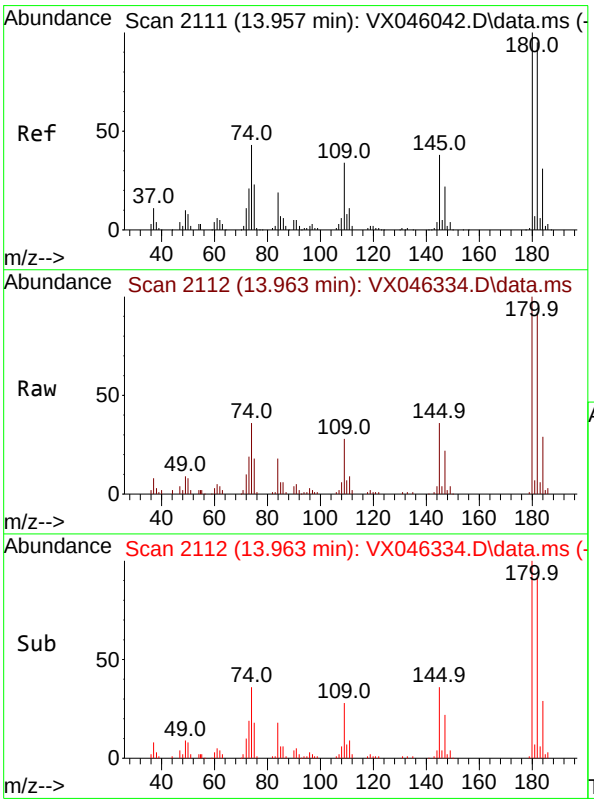
#95
Naphthalene
Concen: 19.079 ug/l
RT: 13.774 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBS01

Tgt Ion:128 Resp: 87267

Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.4	15.6
129	10.3	8.6	13.0

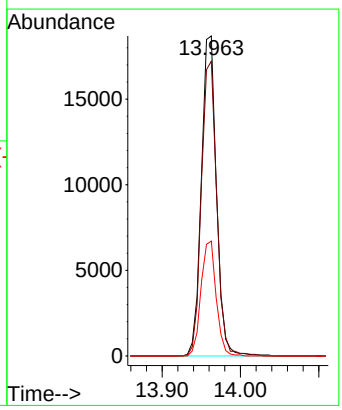




#96
1,2,3-Trichlorobenzene
Concen: 19.420 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. 0.006 min
Lab File: VX046334.D
Acq: 23 May 2025 10:57

Tgt Ion:180 Resp: 24990

Ion	Ratio	Lower	Upper
180	100		
182	93.4	47.8	143.3
145	36.0	18.1	54.3



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046337.D
Acq On : 23 May 2025 12:10
Operator : JC/MD
Sample : VX0523WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBSD01

Quant Time: May 23 22:59:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	88781	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	156018	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	138561	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	64515	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	83078	50.193	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 100.380%			
35) Dibromofluoromethane	5.385	113	57411	51.100	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.200%			
50) Toluene-d8	8.647	98	195435	50.259	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.520%			
62) 4-Bromofluorobenzene	11.079	95	77206	51.761	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 103.520%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.167	85	25474	18.747	ug/l	97
3) Chloromethane	1.301	50	24413	18.526	ug/l	99
4) Vinyl Chloride	1.374	62	21369	17.424	ug/l	96
5) Bromomethane	1.599	94	9985	17.554	ug/l	97
6) Chloroethane	1.673	64	13061	19.949	ug/l	97
7) Trichlorofluoromethane	1.880	101	35491	19.581	ug/l	99
8) Diethyl Ether	2.136	74	11569	18.750	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.325	101	21961	19.579	ug/l	99
10) Methyl Iodide	2.447	142	24410	18.391	ug/l	99
11) Tert butyl alcohol	2.971	59	23549	101.358	ug/l	97
12) 1,1-Dichloroethene	2.313	96	19463	18.488	ug/l	97
13) Acrolein	2.233	56	25046	94.659	ug/l	98
14) Allyl chloride	2.660	41	39575	19.670	ug/l	97
15) Acrylonitrile	3.063	53	70219	105.696	ug/l	99
16) Acetone	2.380	43	66639	100.414	ug/l	99
17) Carbon Disulfide	2.508	76	35232	14.117	ug/l	100
18) Methyl Acetate	2.703	43	37985	24.666	ug/l	98
19) Methyl tert-butyl Ether	3.111	73	76705	20.783	ug/l	98
20) Methylene Chloride	2.782	84	23632	18.582	ug/l	95
21) trans-1,2-Dichloroethene	3.087	96	19656	18.567	ug/l	97
22) Diisopropyl ether	3.757	45	82218	21.156	ug/l	94
23) Vinyl Acetate	3.721	43	343611	100.524	ug/l	100
24) 1,1-Dichloroethane	3.605	63	44347	20.487	ug/l	99
25) 2-Butanone	4.556	43	101697	105.553	ug/l	99
26) 2,2-Dichloropropane	4.471	77	33007	19.482	ug/l	99
27) cis-1,2-Dichloroethene	4.489	96	25739	20.196	ug/l	99
28) Bromochloromethane	4.891	49	22384	21.483	ug/l	97
29) Tetrahydrofuran	5.007	42	63143	104.588	ug/l	99
30) Chloroform	5.087	83	47399	21.008	ug/l	96
31) Cyclohexane	5.465	56	37631	19.078	ug/l	98
32) 1,1,1-Trichloroethane	5.379	97	39871	20.386	ug/l	99
36) 1,1-Dichloropropene	5.690	75	29850	19.774	ug/l	100
37) Ethyl Acetate	4.715	43	37140	19.914	ug/l	99
38) Carbon Tetrachloride	5.672	117	32350	19.073	ug/l	98
39) Methylcyclohexane	7.379	83	36232	18.644	ug/l	95
40) Benzene	6.031	78	90373	20.439	ug/l	98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046337.D
Acq On : 23 May 2025 12:10
Operator : JC/MD
Sample : VX0523WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBSD01

Quant Time: May 23 22:59:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.922	41	21497	22.034	ug/l		98
42) 1,2-Dichloroethane	6.080	62	39414	20.654	ug/l		99
43) Isopropyl Acetate	6.342	43	59852	21.036	ug/l		100
44) Trichloroethene	7.123	130	21039	19.770	ug/l		99
45) 1,2-Dichloropropane	7.428	63	23384	21.269	ug/l		98
46) Dibromomethane	7.580	93	17380	20.043	ug/l		99
47) Bromodichloromethane	7.818	83	34711	20.324	ug/l		94
48) Methyl methacrylate	7.690	41	31880	21.940	ug/l		99
49) 1,4-Dioxane	7.659	88	12226	443.135	ug/l		99
51) 4-Methyl-2-Pentanone	8.574	43	203409	107.703	ug/l		100
52) Toluene	8.714	92	56025	20.664	ug/l		99
53) t-1,3-Dichloropropene	8.976	75	29223	19.250	ug/l		100
54) cis-1,3-Dichloropropene	8.366	75	33496	19.964	ug/l		98
55) 1,1,2-Trichloroethane	9.147	97	23165	21.669	ug/l		96
56) Ethyl methacrylate	9.116	69	37300	21.892	ug/l		99
57) 1,3-Dichloropropane	9.305	76	40634	21.164	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.238	63	91224	105.020	ug/l		100
59) 2-Hexanone	9.427	43	154608	110.651	ug/l		99
60) Dibromochloromethane	9.519	129	23795	20.267	ug/l		97
61) 1,2-Dibromoethane	9.610	107	23433	21.090	ug/l		99
64) Tetrachloroethene	9.269	164	19788	20.184	ug/l		95
65) Chlorobenzene	10.080	112	60662	20.002	ug/l		98
66) 1,1,1,2-Tetrachloroethane	10.159	131	20600	19.892	ug/l		98
67) Ethyl Benzene	10.189	91	110710	20.709	ug/l		99
68) m/p-Xylenes	10.299	106	80300	41.069	ug/l		97
69) o-Xylene	10.640	106	40011	20.990	ug/l		94
70) Styrene	10.653	104	67035	21.468	ug/l		98
71) Bromoform	10.799	173	14390	18.508	ug/l	#	97
73) Isopropylbenzene	10.957	105	108018	21.506	ug/l		100
74) N-amyl acetate	10.842	43	53653	21.617	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.207	83	37352	21.221	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	38333	24.685	ug/l		88
77) Bromobenzene	11.195	156	24128	20.692	ug/l		98
78) n-propylbenzene	11.299	91	122931	21.050	ug/l		100
79) 2-Chlorotoluene	11.360	91	78220	20.765	ug/l		100
80) 1,3,5-Trimethylbenzene	11.451	105	91615	21.833	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	8375	17.558	ug/l		89
82) 4-Chlorotoluene	11.451	91	88845	21.268	ug/l		99
83) tert-Butylbenzene	11.713	119	90311	21.367	ug/l		100
84) 1,2,4-Trimethylbenzene	11.750	105	92322	21.726	ug/l		99
85) sec-Butylbenzene	11.890	105	112789	21.734	ug/l		98
86) p-Isopropyltoluene	12.006	119	92615	21.620	ug/l		100
87) 1,3-Dichlorobenzene	11.969	146	43835	20.598	ug/l		98
88) 1,4-Dichlorobenzene	12.037	146	44676	20.556	ug/l		98
89) n-Butylbenzene	12.329	91	78814	20.975	ug/l		100
90) Hexachloroethane	12.536	117	14474	19.179	ug/l		98
91) 1,2-Dichlorobenzene	12.335	146	46803	21.916	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	12.939	75	8003	20.524	ug/l		96
93) 1,2,4-Trichlorobenzene	13.585	180	26034	21.225	ug/l		97
94) Hexachlorobutadiene	13.725	225	10958	20.455	ug/l		97
95) Naphthalene	13.774	128	95806	21.296	ug/l		99
96) 1,2,3-Trichlorobenzene	13.957	180	26794	21.171	ug/l		98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046337.D
Acq On : 23 May 2025 12:10
Operator : JC/MD
Sample : VX0523WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBSD01

Quant Time: May 23 22:59:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

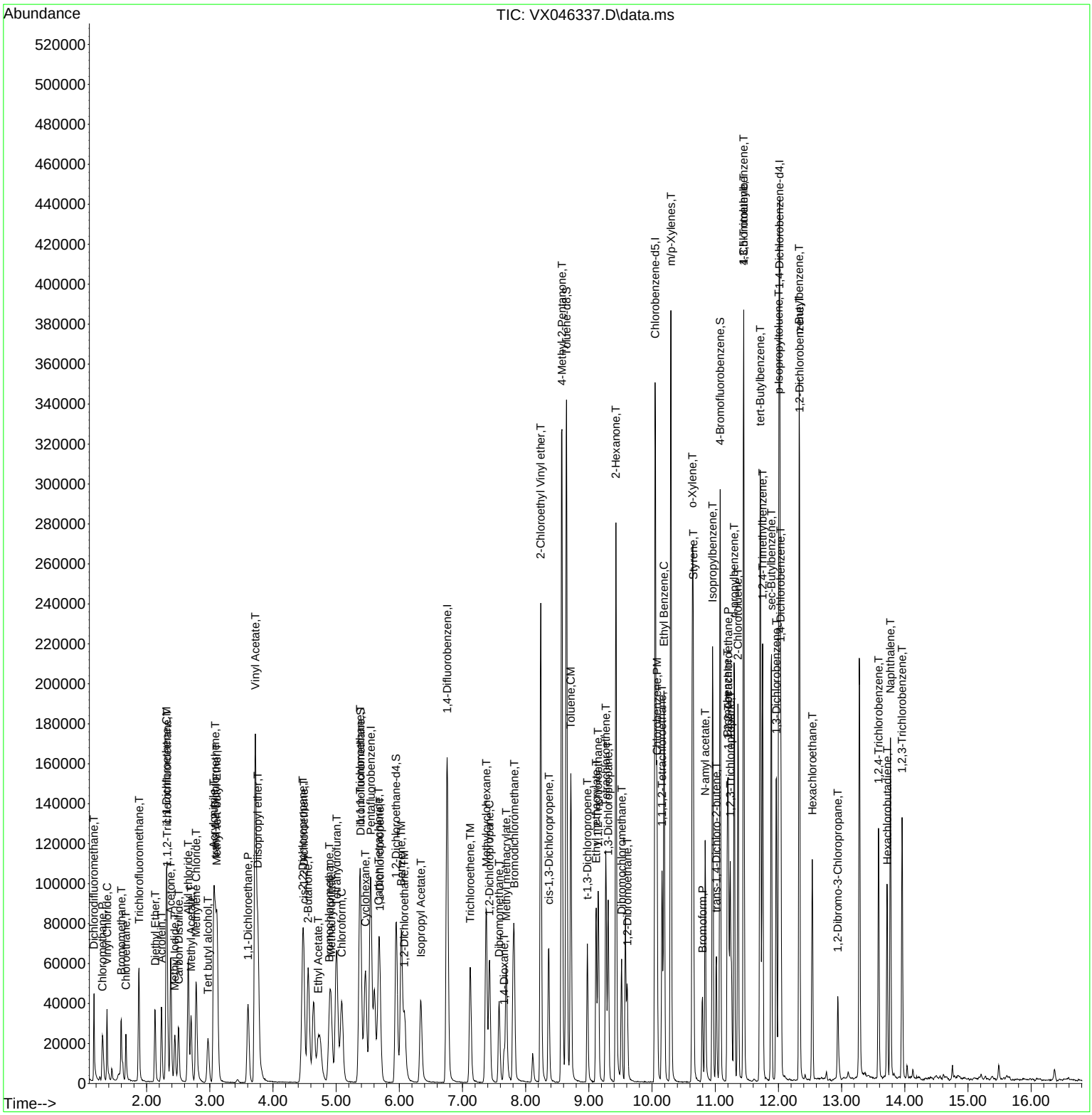
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

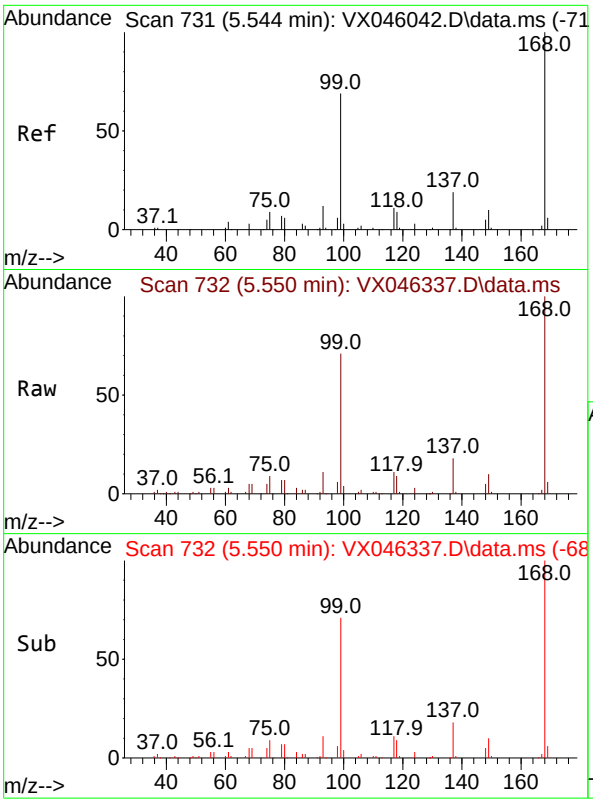
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046337.D
Acq On : 23 May 2025 12:10
Operator : JC/MD
Sample : VX0523WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBSD01

Quant Time: May 23 22:59:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration



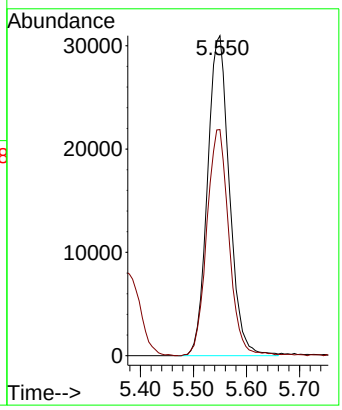


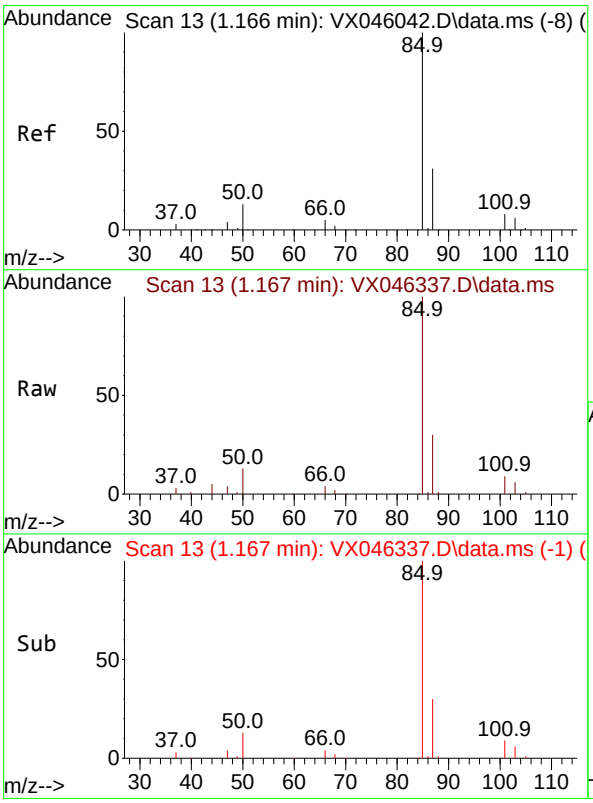
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBSD01

Tgt Ion:168 Resp: 88781

Ion	Ratio	Lower	Upper
168	100		
99	70.7	54.9	82.3

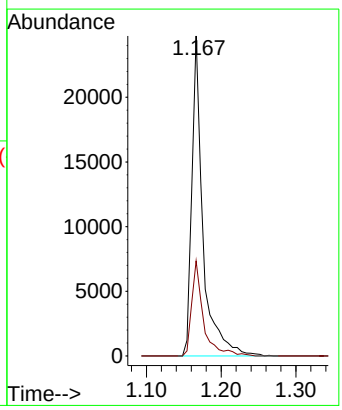


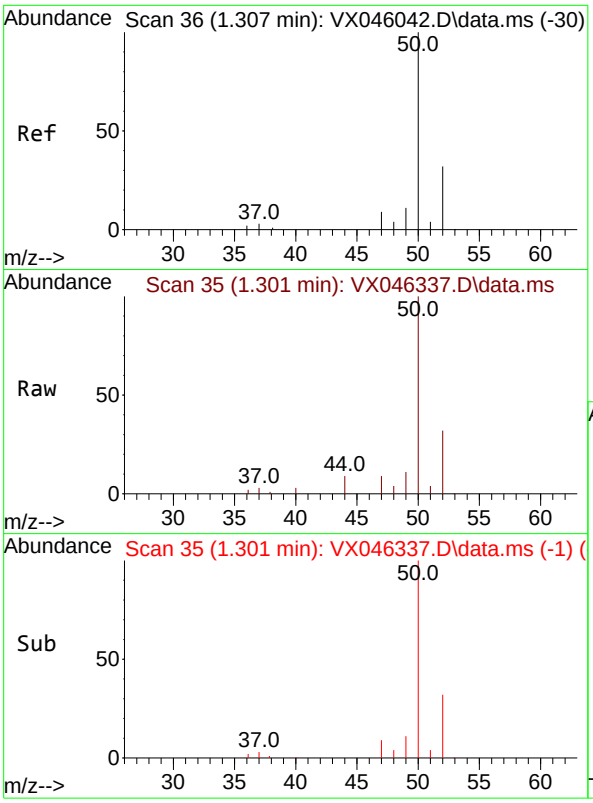


#2
Dichlorodifluoromethane
Concen: 18.747 ug/l
RT: 1.167 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 85 Resp: 25474

Ion	Ratio	Lower	Upper
85	100		
87	29.7	15.7	47.1



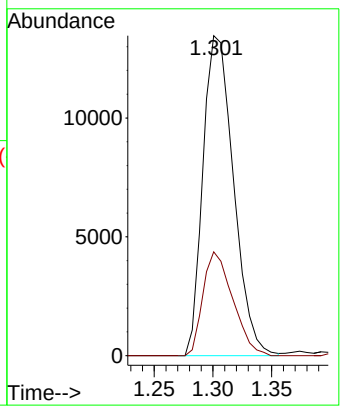


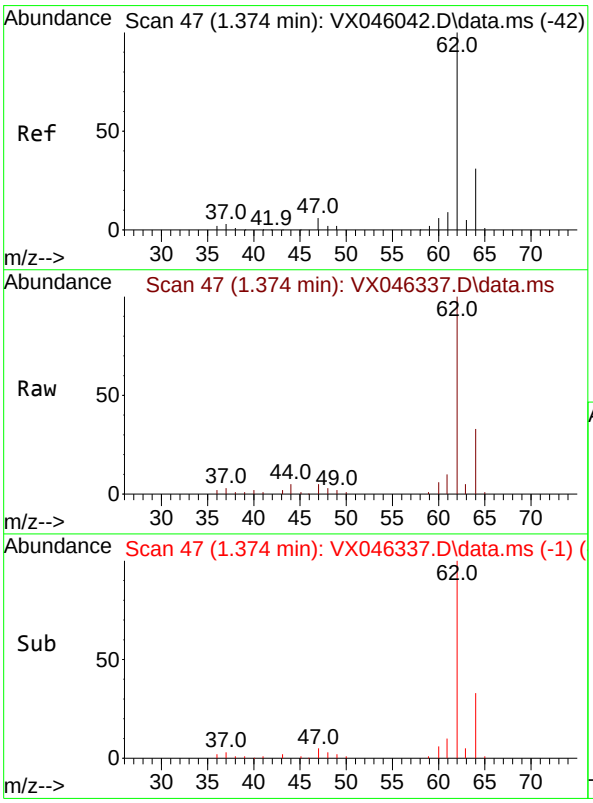
#3
Chloromethane
Concen: 18.526 ug/l
RT: 1.301 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBSD01

Tgt Ion: 50 Resp: 24413

Ion	Ratio	Lower	Upper
50	100		
52	32.5	25.4	38.2

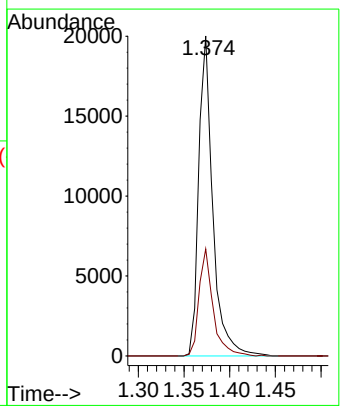


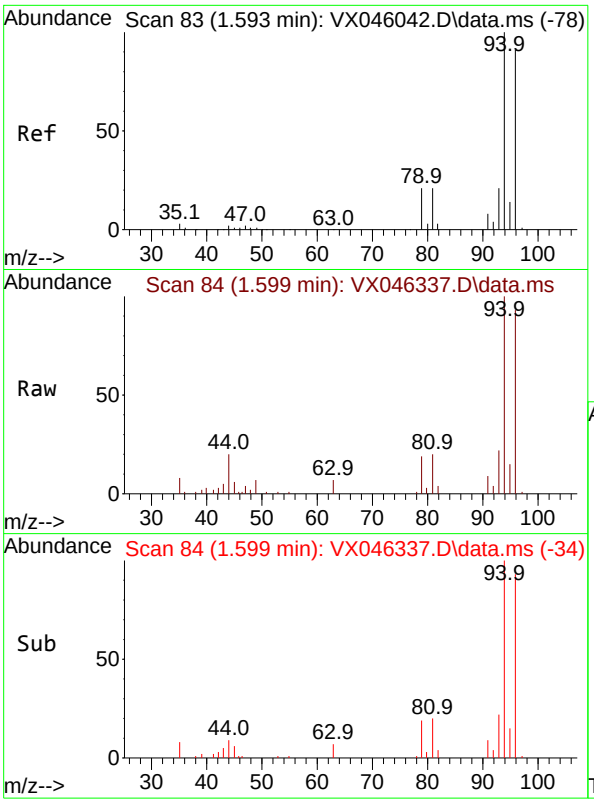


#4
Vinyl Chloride
Concen: 17.424 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 62 Resp: 21369

Ion	Ratio	Lower	Upper
62	100		
64	33.5	25.2	37.8



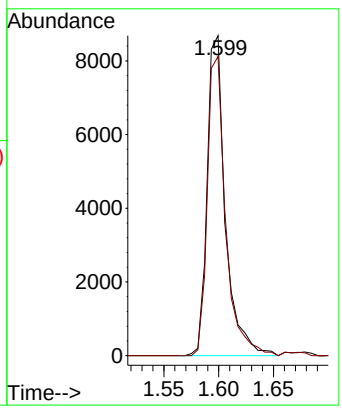


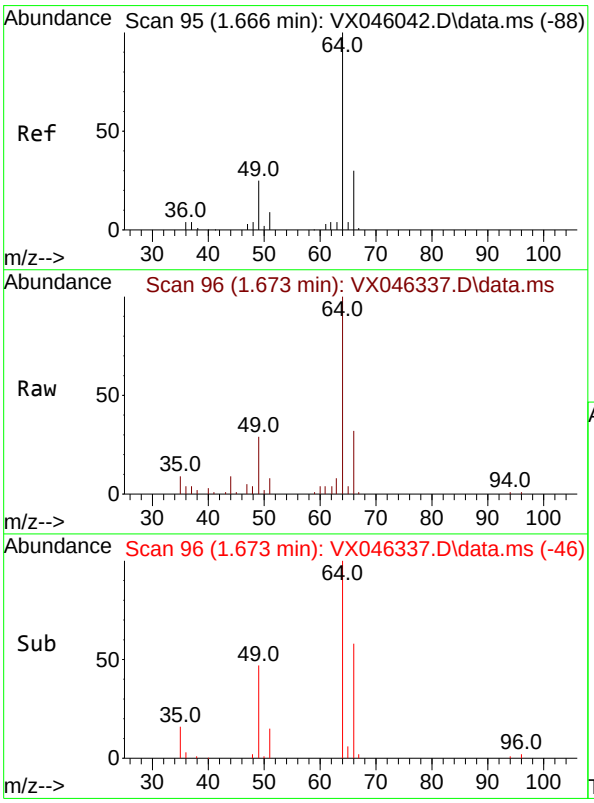
#5
Bromomethane
Concen: 17.554 ug/l
RT: 1.599 min Scan# 84
Delta R.T. 0.006 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBSD01

Tgt Ion: 94 Resp: 9985

Ion	Ratio	Lower	Upper
94	100		
96	93.5	72.8	109.2

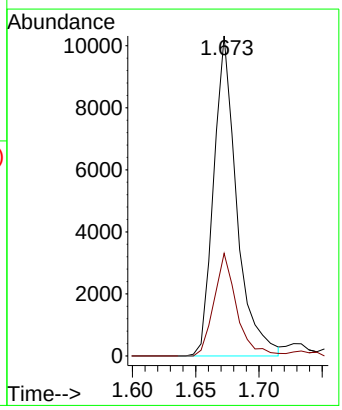


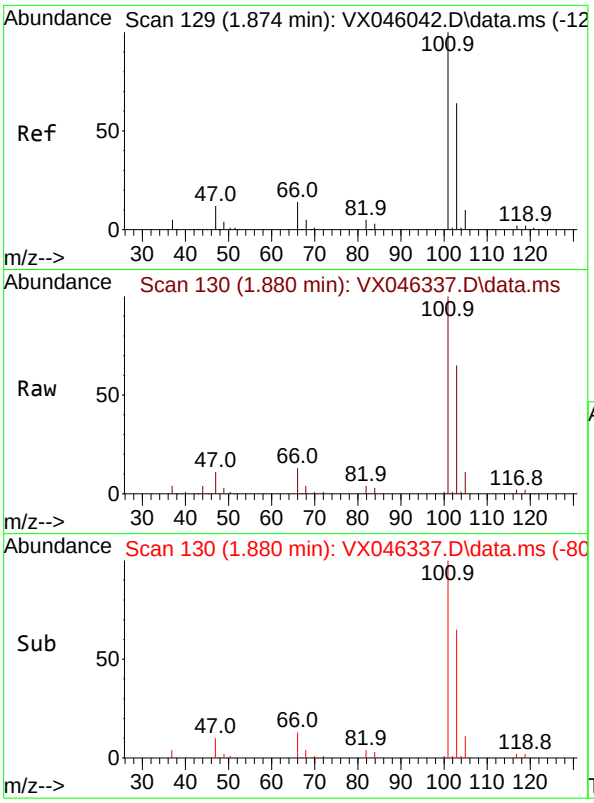


#6
Chloroethane
Concen: 19.949 ug/l
RT: 1.673 min Scan# 96
Delta R.T. 0.006 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 64 Resp: 13061

Ion	Ratio	Lower	Upper
64	100		
66	32.0	24.3	36.5



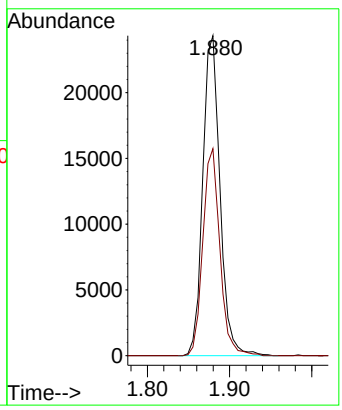


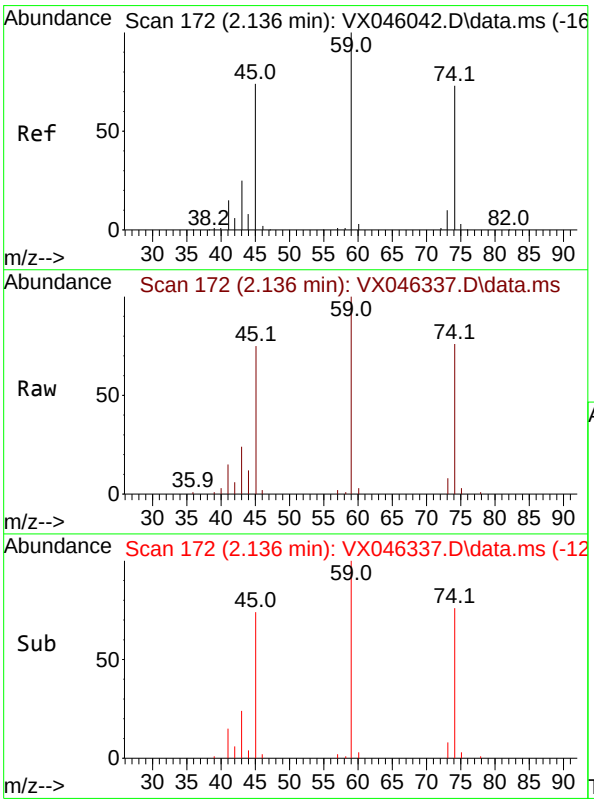
#7
Trichlorofluoromethane
Concen: 19.581 ug/l
RT: 1.880 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBSD01

Tgt Ion:101 Resp: 35491

Ion	Ratio	Lower	Upper
101	100		
103	64.7	51.0	76.4

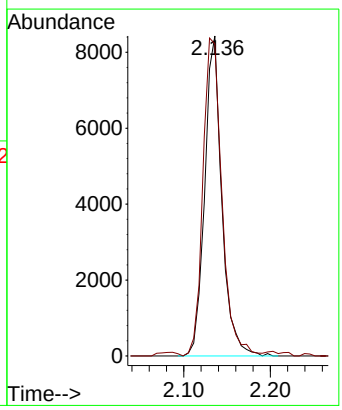


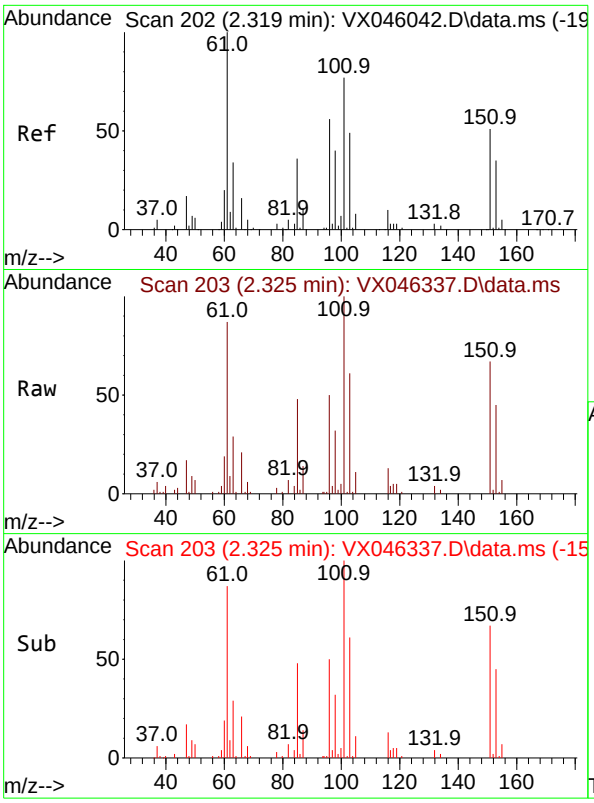


#8
Diethyl Ether
Concen: 18.750 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 74 Resp: 11569

Ion	Ratio	Lower	Upper
74	100		
45	110.3	54.9	164.8



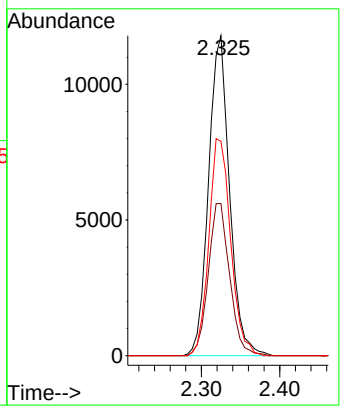


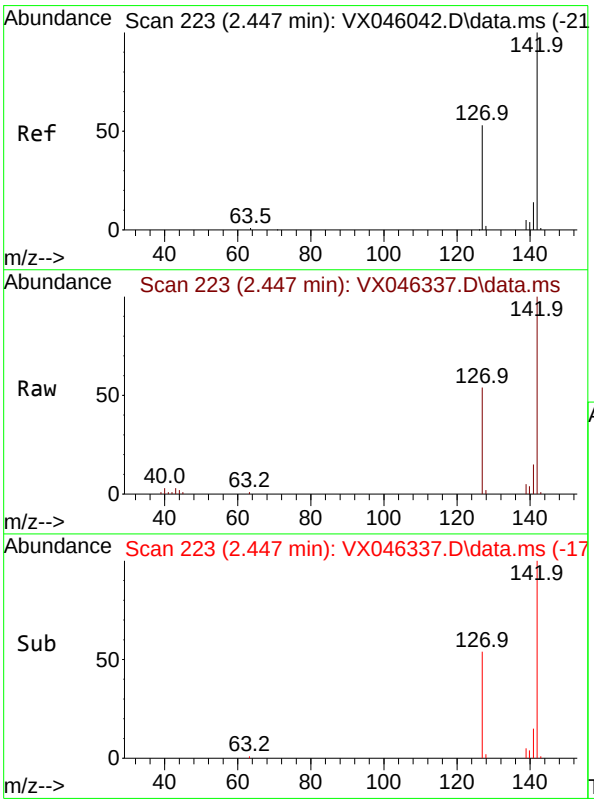
#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.579 ug/l
RT: 2.325 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBSD01

Tgt Ion:101 Resp: 21961

Ion	Ratio	Lower	Upper
101	100		
85	48.4	38.6	58.0
151	70.4	55.2	82.8

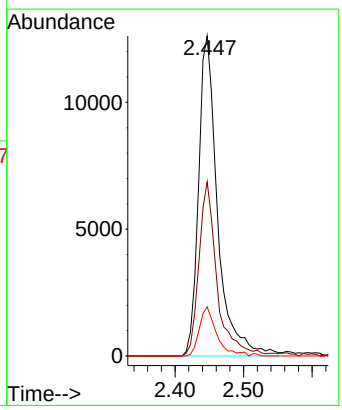


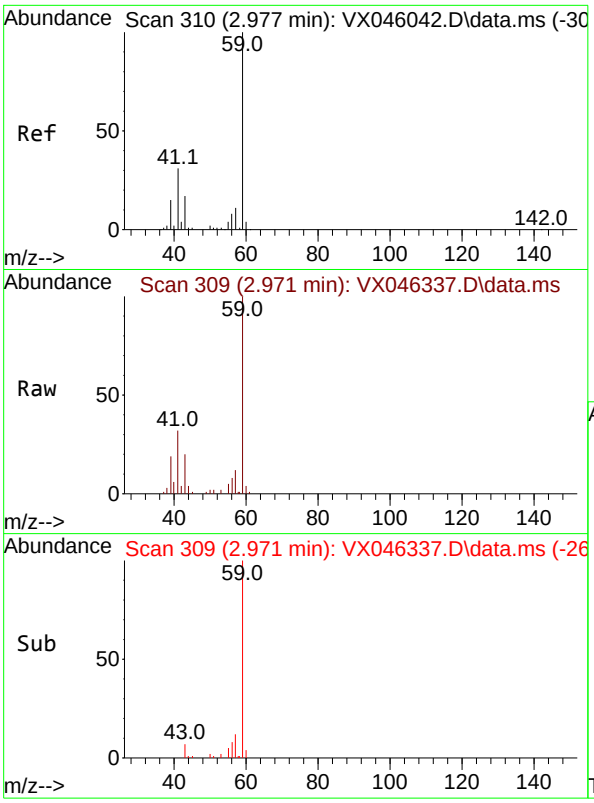


#10
Methyl Iodide
Concen: 18.391 ug/l
RT: 2.447 min Scan# 223
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion:142 Resp: 24410

Ion	Ratio	Lower	Upper
142	100		
127	51.4	41.7	62.5
141	14.1	11.5	17.3



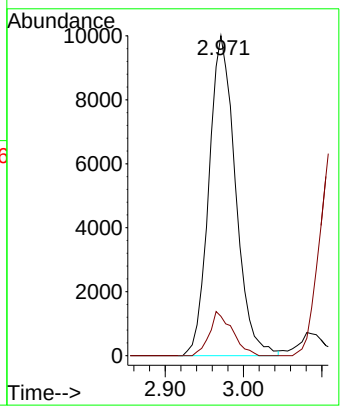


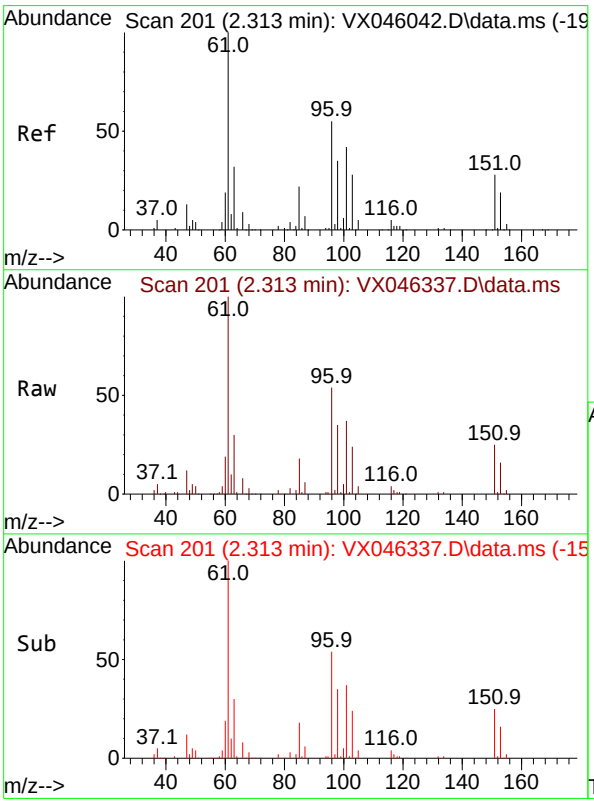
#11
Tert butyl alcohol
Concen: 101.358 ug/l
RT: 2.971 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBSD01

Tgt Ion: 59 Resp: 23549

Ion	Ratio	Lower	Upper
59	100		
57	11.9	8.6	12.8

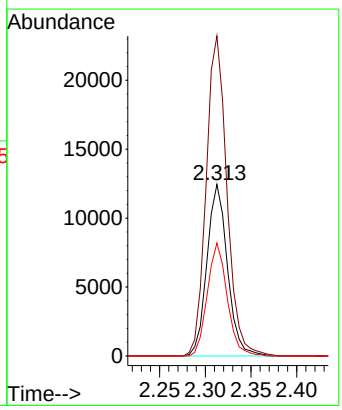


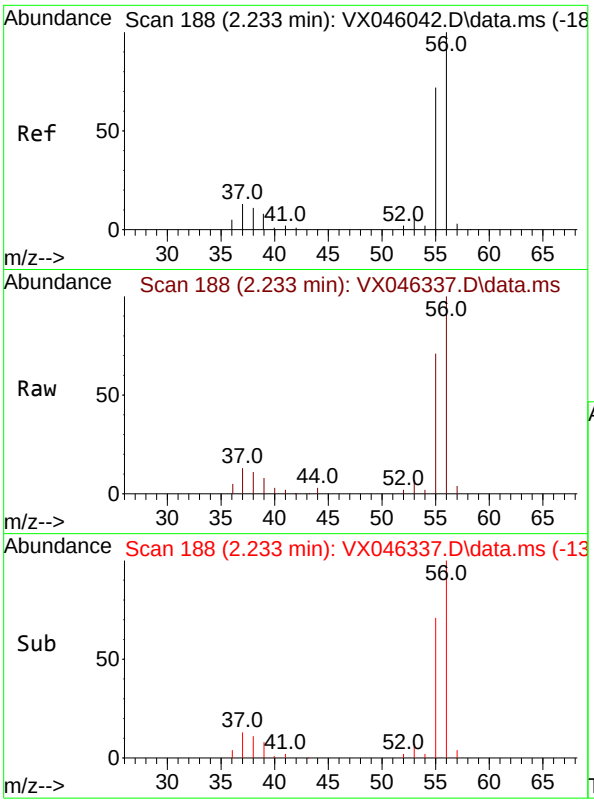


#12
1,1-Dichloroethene
Concen: 18.488 ug/l
RT: 2.313 min Scan# 201
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 96 Resp: 19463

Ion	Ratio	Lower	Upper
96	100		
61	186.6	146.2	219.2
98	65.9	51.0	76.6



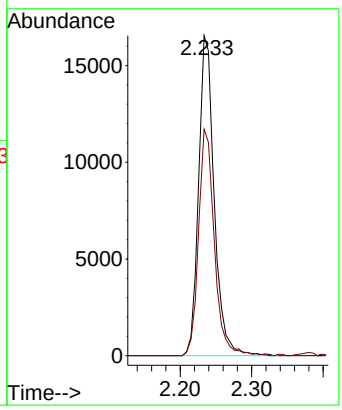


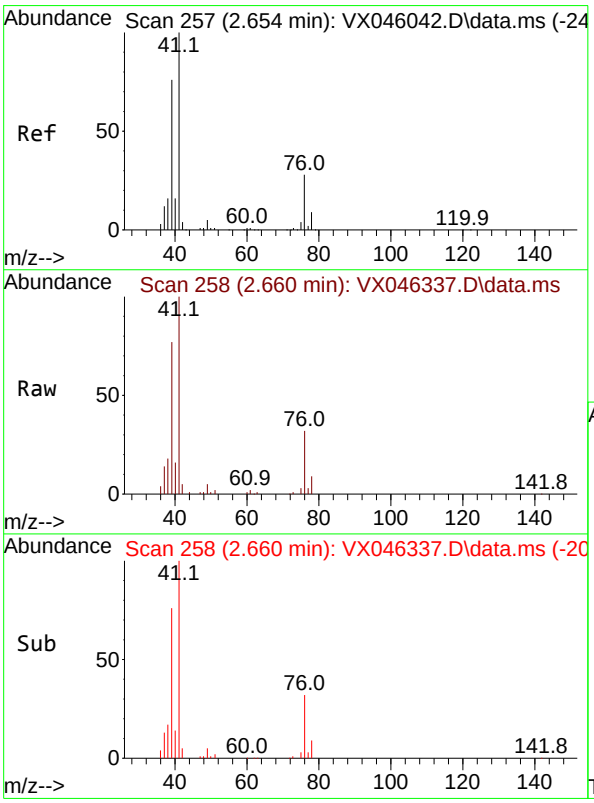
#13
Acrolein
Concen: 94.659 ug/l
RT: 2.233 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBSD01

Tgt Ion: 56 Resp: 25046

Ion	Ratio	Lower	Upper
56	100		
55	71.7	56.2	84.4

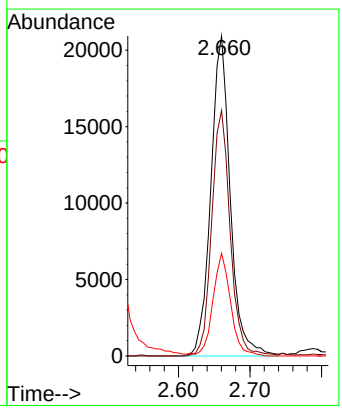


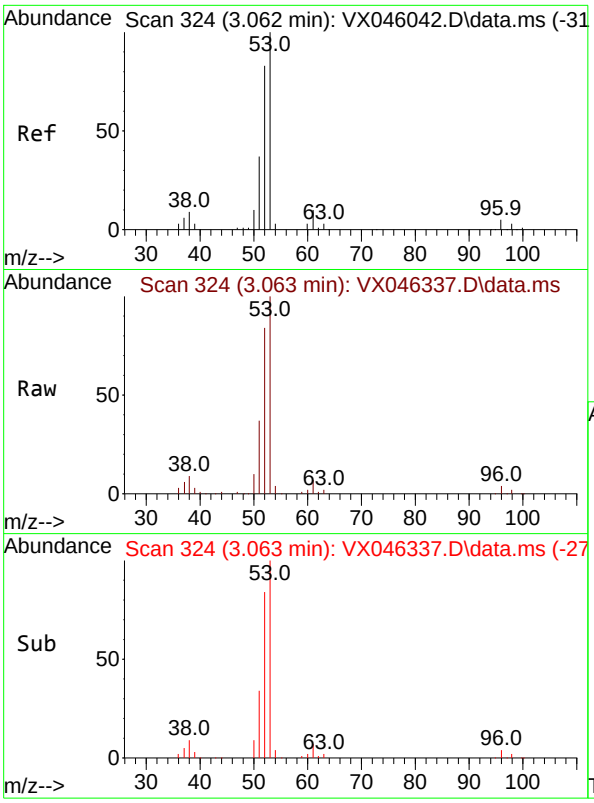


#14
Allyl chloride
Concen: 19.670 ug/l
RT: 2.660 min Scan# 258
Delta R.T. 0.006 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 41 Resp: 39575

Ion	Ratio	Lower	Upper
41	100		
39	72.8	60.6	90.8
76	29.2	24.9	37.3



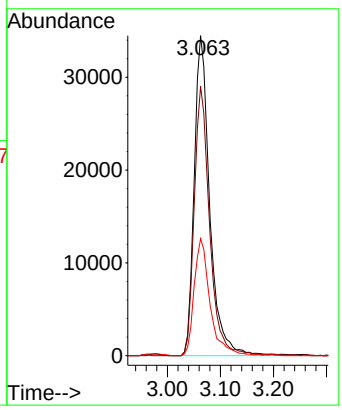


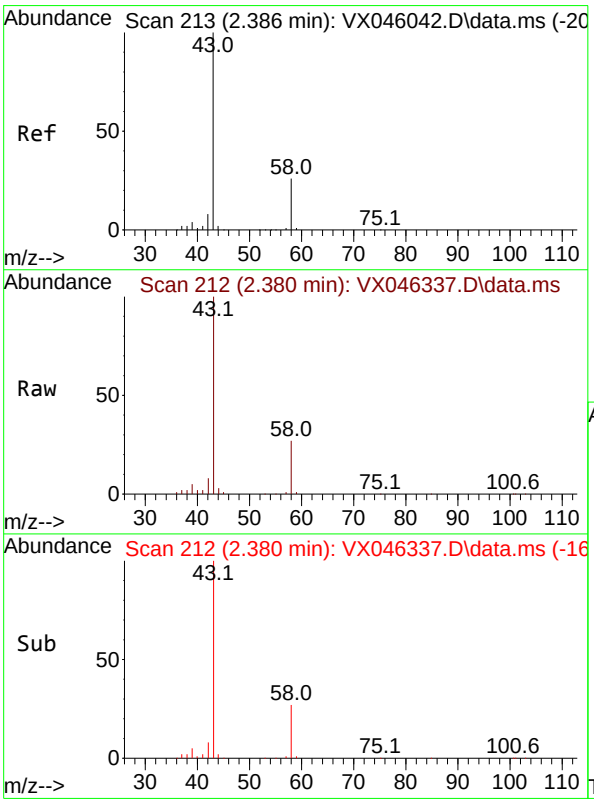
#15
Acrylonitrile
Concen: 105.696 ug/l
RT: 3.063 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBSD01

Tgt Ion: 53 Resp: 70219

Ion	Ratio	Lower	Upper
53	100		
52	83.1	65.3	97.9
51	37.7	29.8	44.8

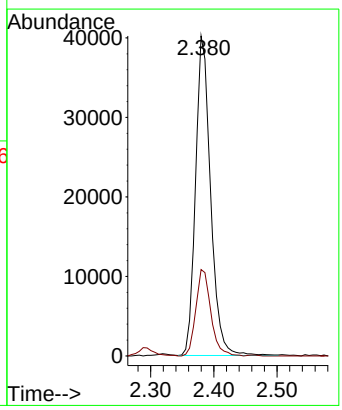


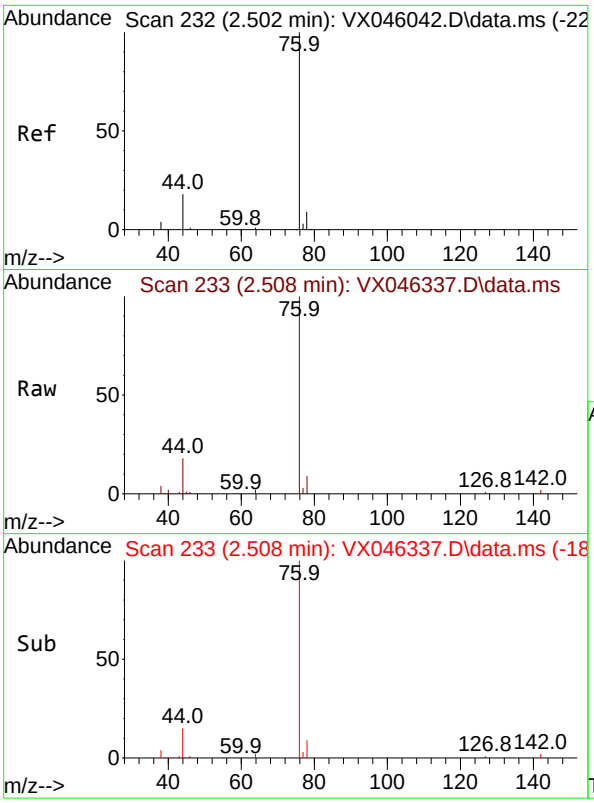


#16
Acetone
Concen: 100.414 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 43 Resp: 66639

Ion	Ratio	Lower	Upper
43	100		
58	27.0	21.2	31.8



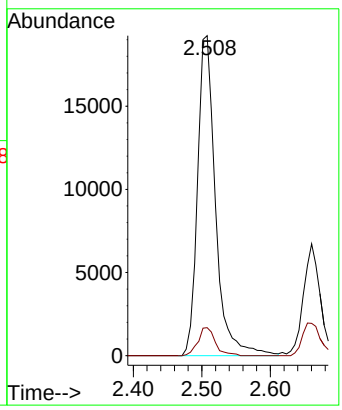


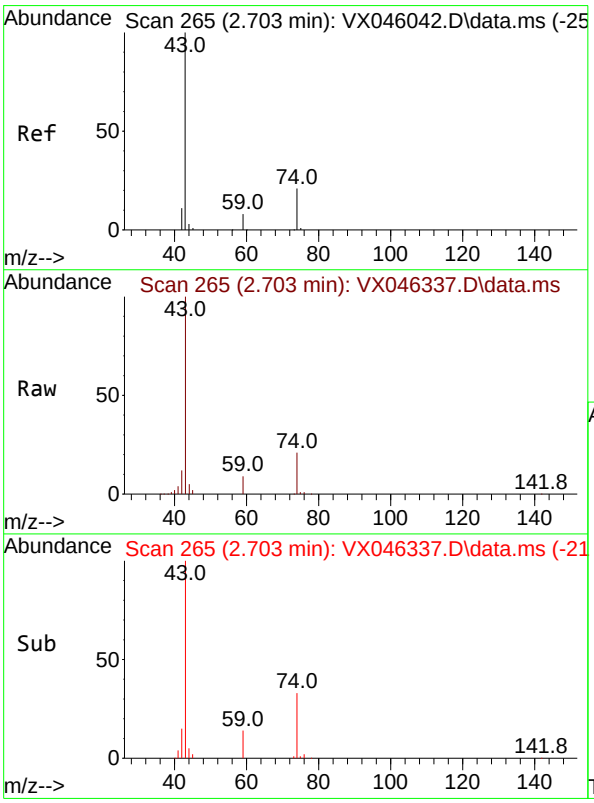
#17
Carbon Disulfide
Concen: 14.117 ug/l
RT: 2.508 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBSD01

Tgt Ion: 76 Resp: 35232

Ion	Ratio	Lower	Upper
76	100		
78	8.7	7.0	10.4

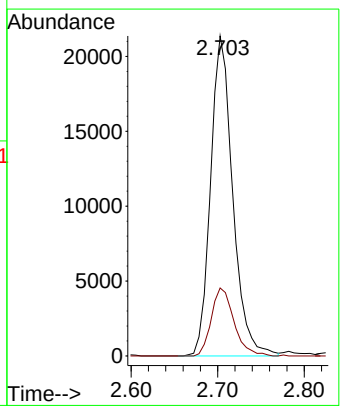


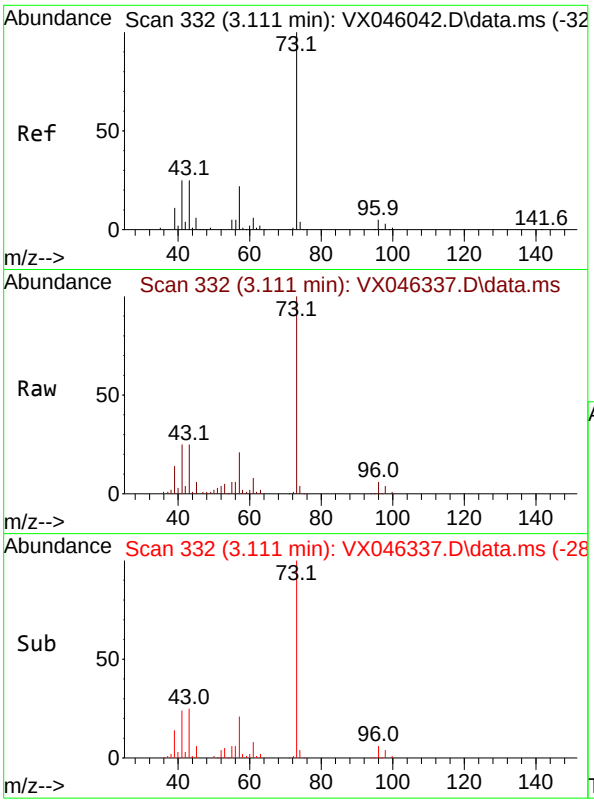


#18
Methyl Acetate
Concen: 24.666 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 43 Resp: 37985

Ion	Ratio	Lower	Upper
43	100		
74	21.7	16.7	25.1



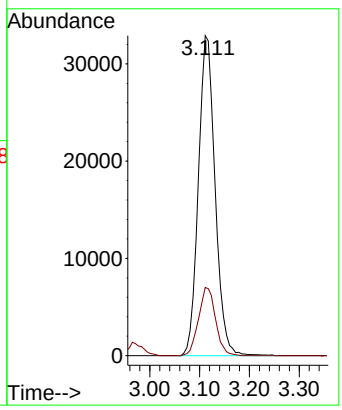


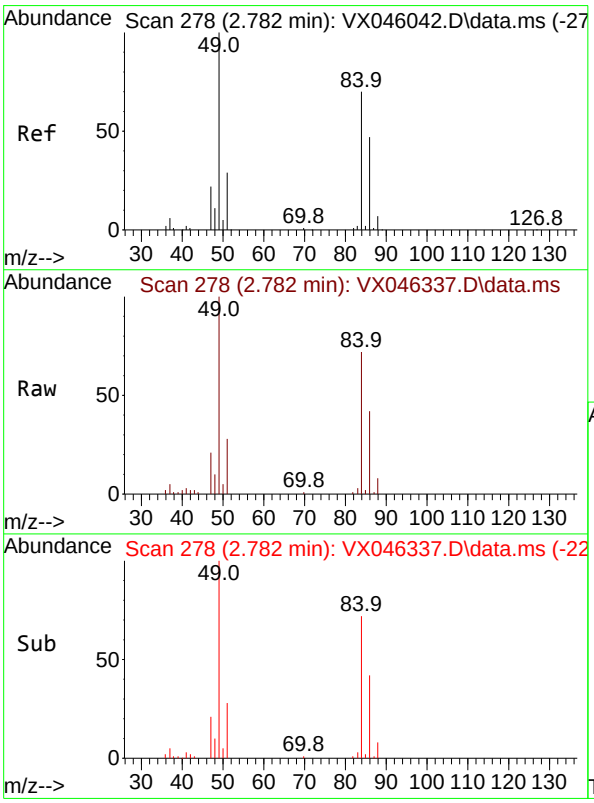
#19
Methyl tert-butyl Ether
Concen: 20.783 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBSD01

Tgt Ion: 73 Resp: 76705

Ion	Ratio	Lower	Upper
73	100		
57	21.3	17.7	26.5

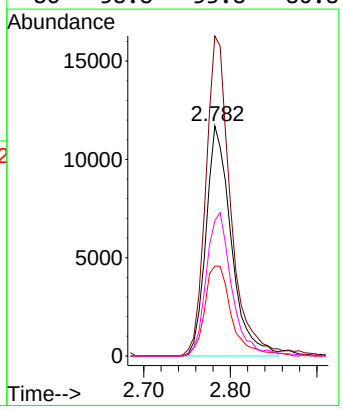


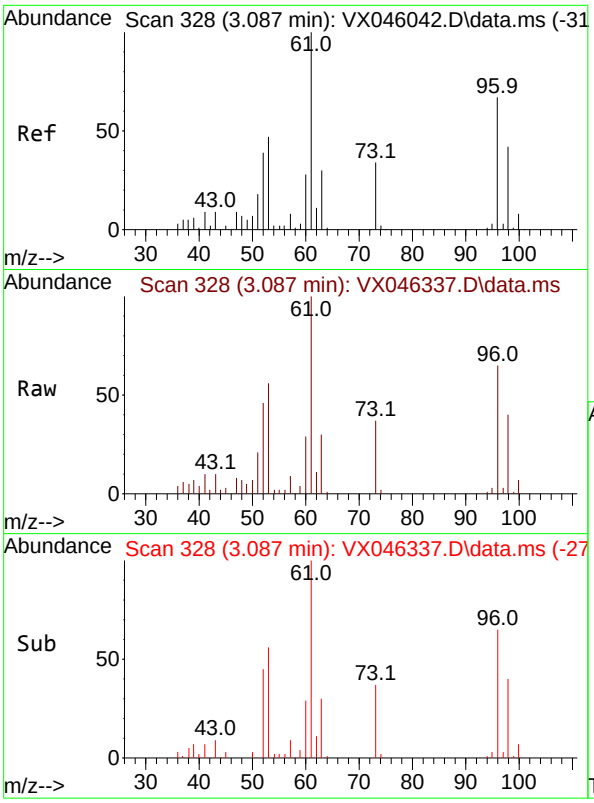


#20
Methylene Chloride
Concen: 18.582 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 84 Resp: 23632

Ion	Ratio	Lower	Upper
84	100		
49	139.1	113.9	170.9
51	39.1	33.5	50.3
86	58.8	53.8	80.8



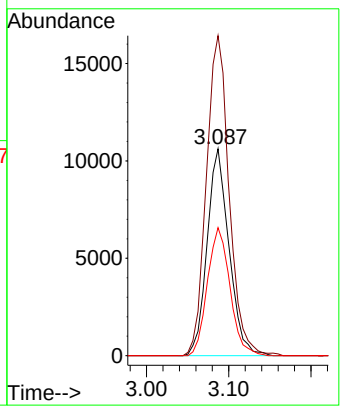


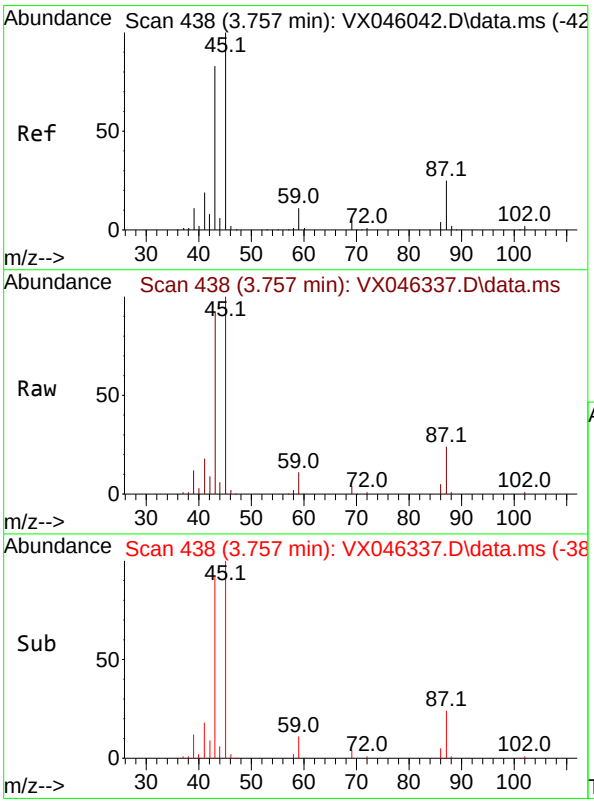
#21
trans-1,2-Dichloroethene
Concen: 18.567 ug/l
RT: 3.087 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBSD01

Tgt Ion: 96 Resp: 19656

Ion	Ratio	Lower	Upper
96	100		
61	154.7	119.5	179.3
98	61.9	50.0	75.0

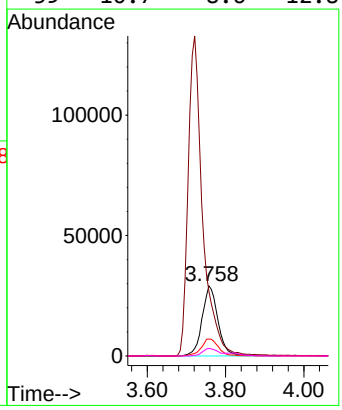


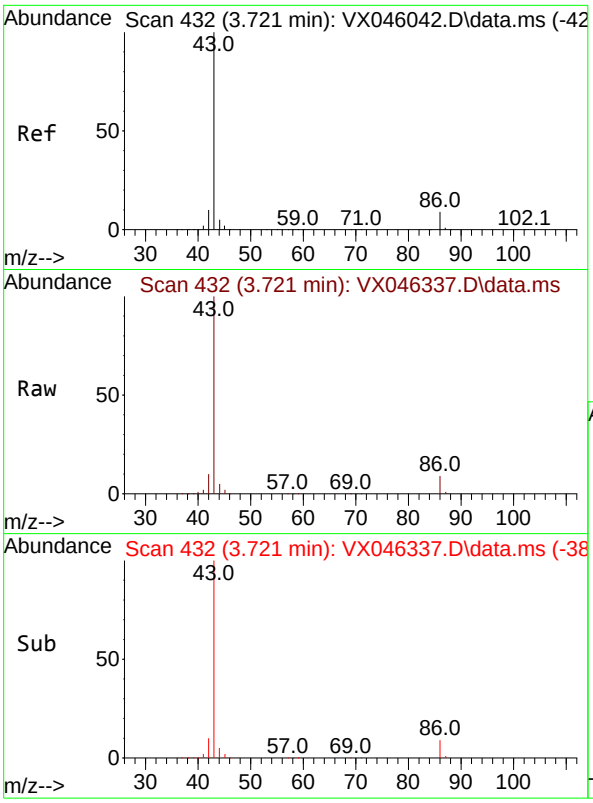


#22
Diisopropyl ether
Concen: 21.156 ug/l
RT: 3.757 min Scan# 438
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 45 Resp: 82218

Ion	Ratio	Lower	Upper
45	100		
43	91.3	66.6	100.0
87	24.2	19.8	29.6
59	10.7	8.6	12.8



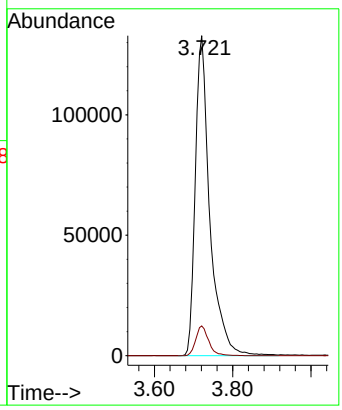


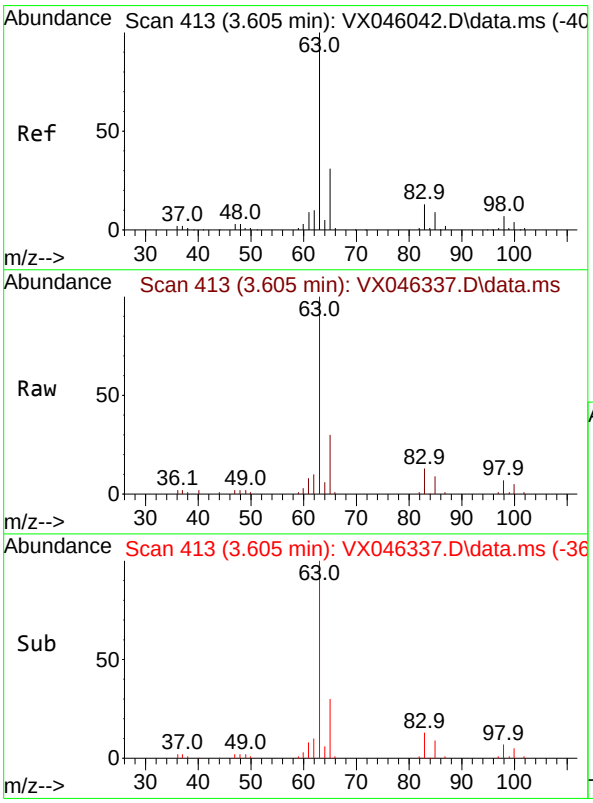
#23
Vinyl Acetate
Concen: 100.524 ug/l
RT: 3.721 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBSD01

Tgt Ion: 43 Resp: 343611

Ion	Ratio	Lower	Upper
43	100		
86	9.3	7.5	11.3

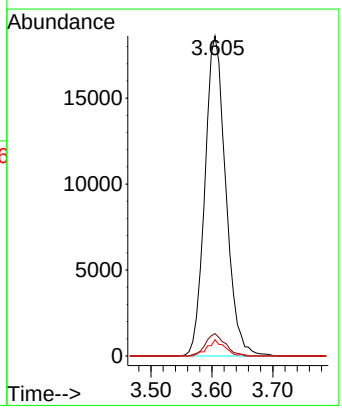


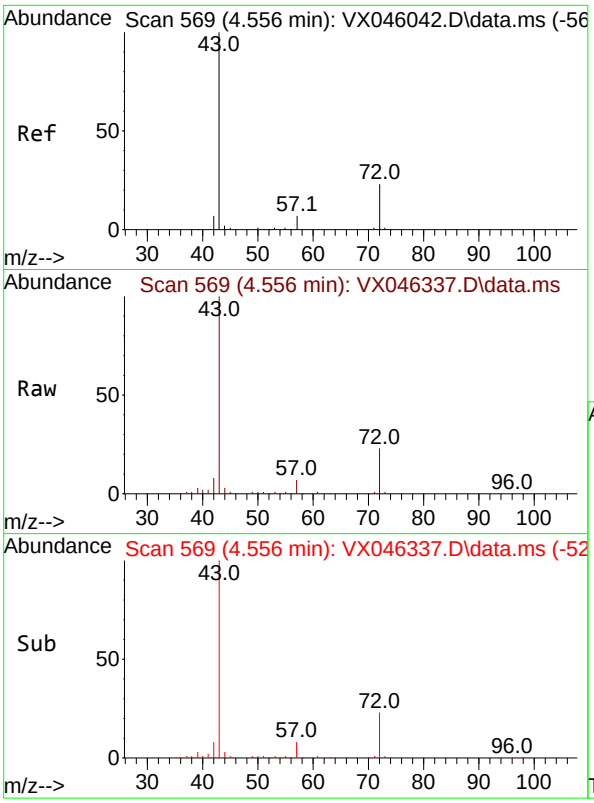


#24
1,1-Dichloroethane
Concen: 20.487 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 63 Resp: 44347

Ion	Ratio	Lower	Upper
63	100		
98	7.0	3.6	10.8
100	5.1	2.1	6.3



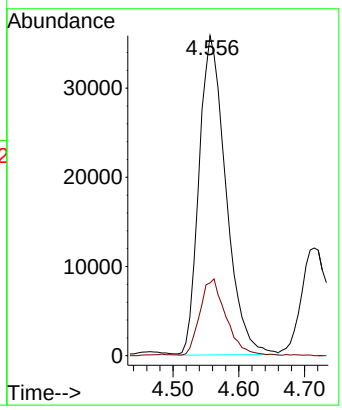


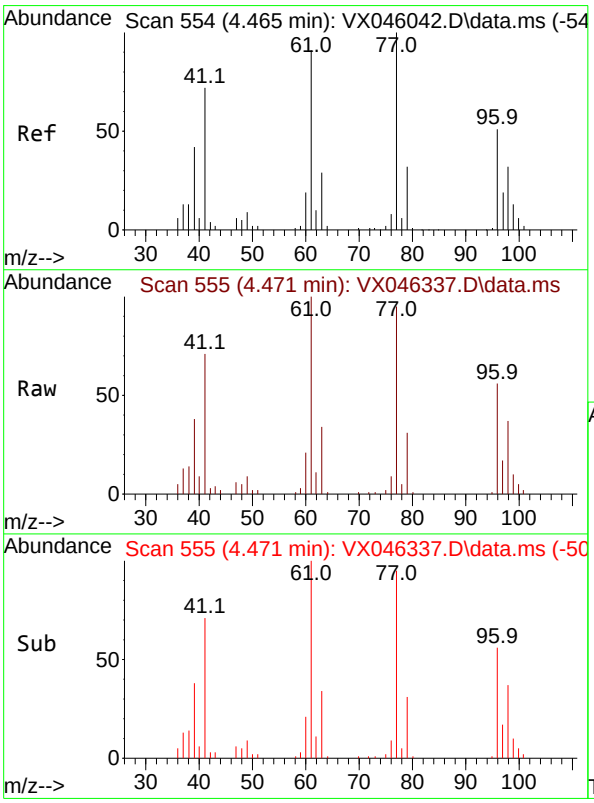
#25
2-Butanone
Concen: 105.553 ug/l
RT: 4.556 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBSD01

Tgt Ion: 43 Resp: 101697

Ion	Ratio	Lower	Upper
43	100		
72	22.7	18.4	27.6

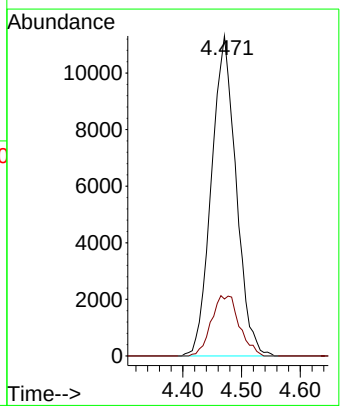


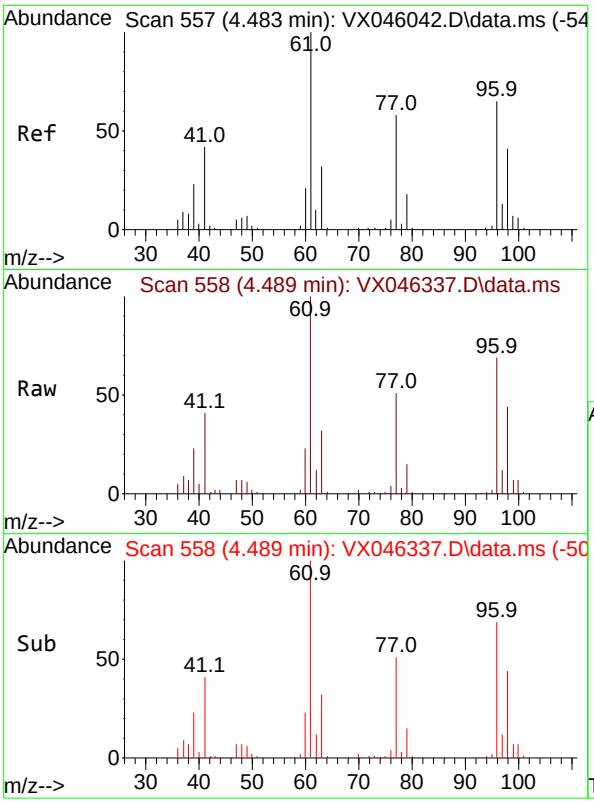


#26
2,2-Dichloropropane
Concen: 19.482 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 77 Resp: 33007

Ion	Ratio	Lower	Upper
77	100		
97	21.4	10.5	31.5



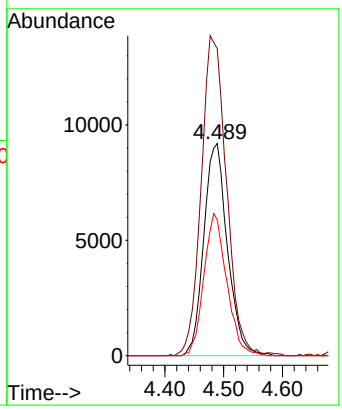


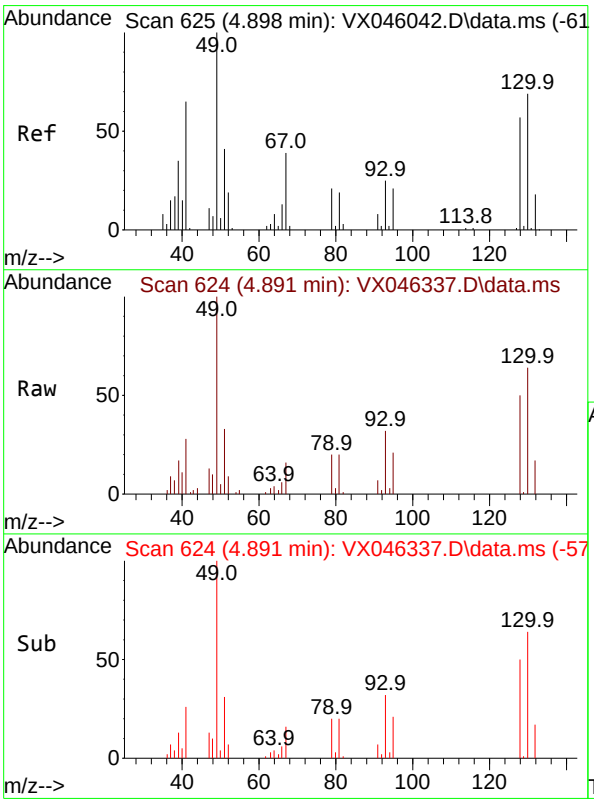
#27
cis-1,2-Dichloroethene
Concen: 20.196 ug/l
RT: 4.489 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBSD01

Tgt Ion: 96 Resp: 25739

Ion	Ratio	Lower	Upper
96	100		
61	160.1	0.0	322.8
98	64.6	0.0	129.0

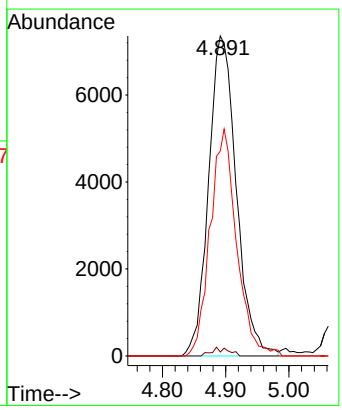


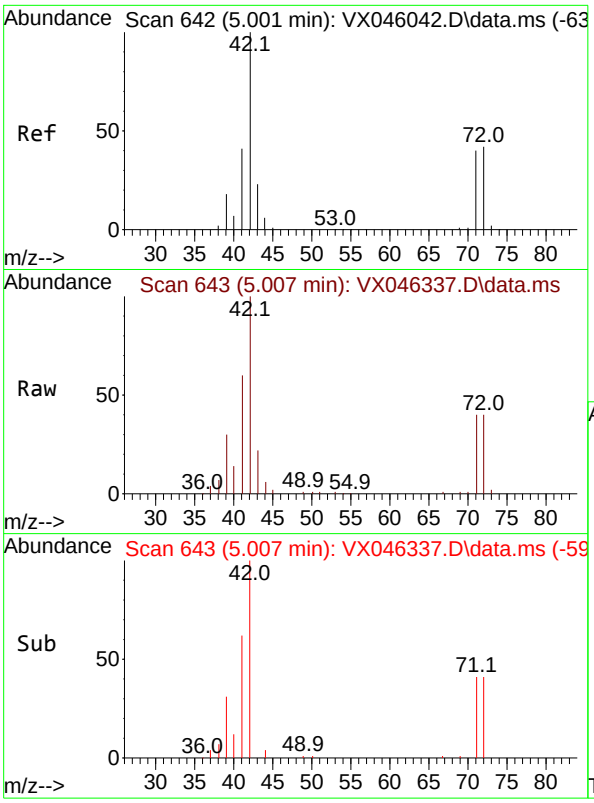


#28
Bromochloromethane
Concen: 21.483 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 49 Resp: 22384

Ion	Ratio	Lower	Upper
49	100		
129	1.6	0.0	4.0
130	67.5	56.2	84.2



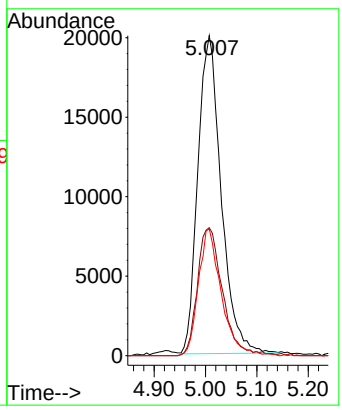


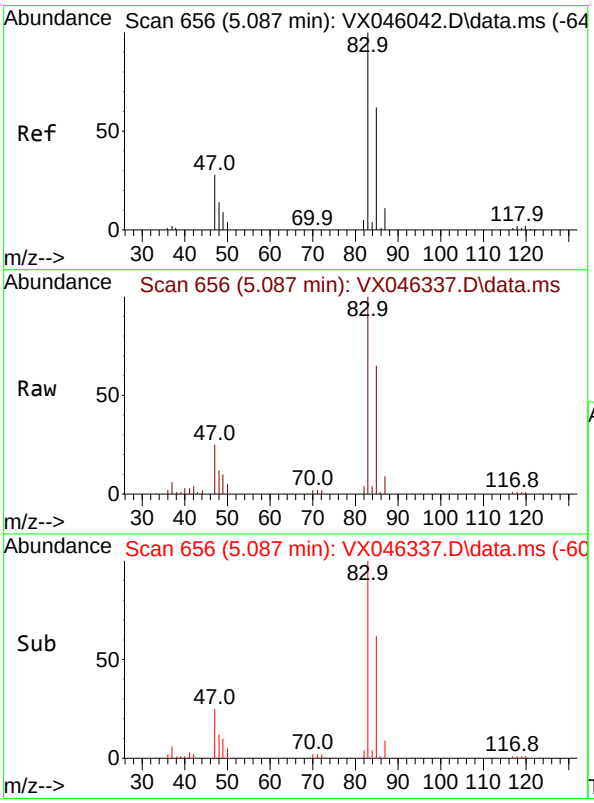
#29
Tetrahydrofuran
Concen: 104.588 ug/l
RT: 5.007 min Scan# 64
Delta R.T. 0.006 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBSD01

Tgt Ion: 42 Resp: 63143

Ion	Ratio	Lower	Upper
42	100		
72	43.0	33.7	50.5
71	39.2	31.4	47.2

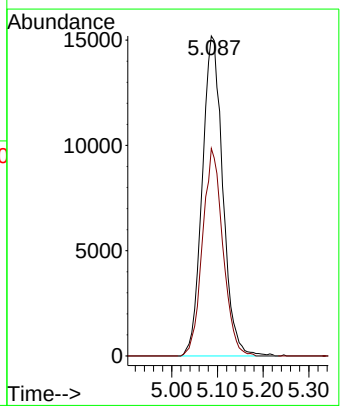


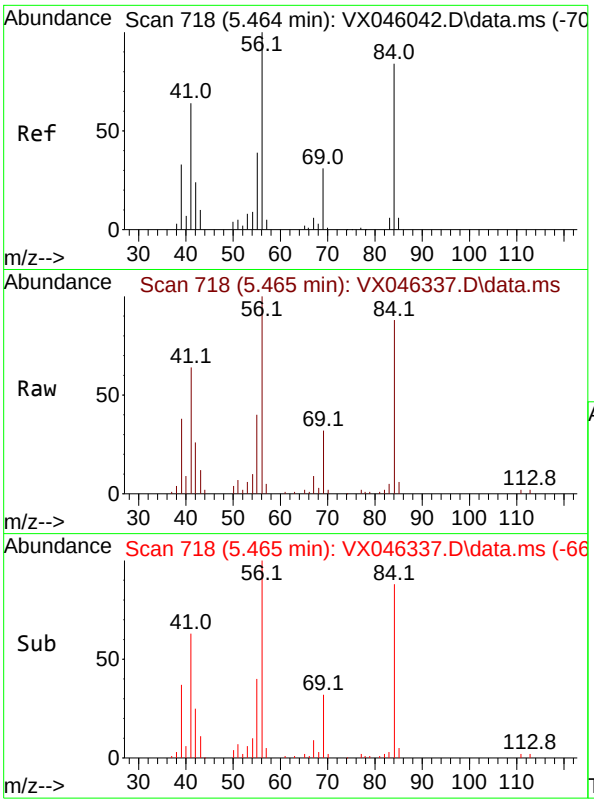


#30
Chloroform
Concen: 21.008 ug/l
RT: 5.087 min Scan# 656
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 83 Resp: 47399

Ion	Ratio	Lower	Upper
83	100		
85	64.9	49.3	73.9



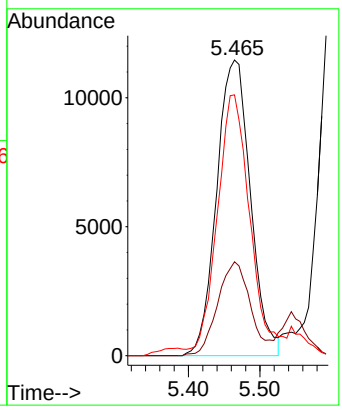


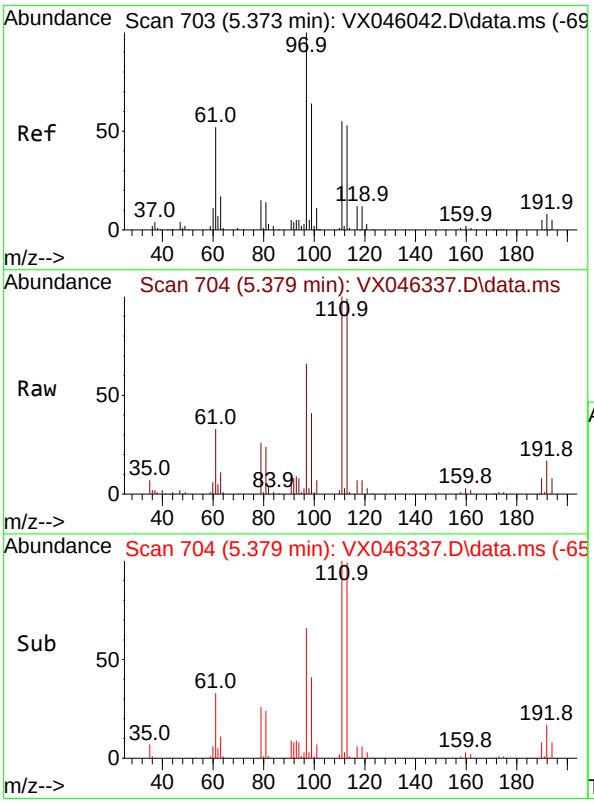
#31
Cyclohexane
Concen: 19.078 ug/l
RT: 5.465 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBSD01

Tgt Ion: 56 Resp: 37631

Ion	Ratio	Lower	Upper
56	100		
69	31.8	24.4	36.6
84	85.6	66.9	100.3

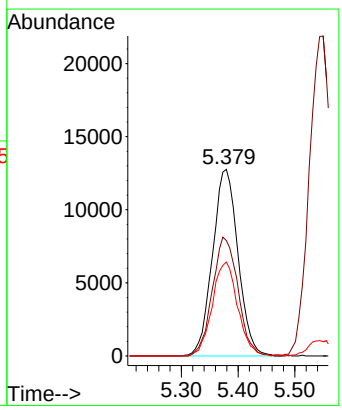


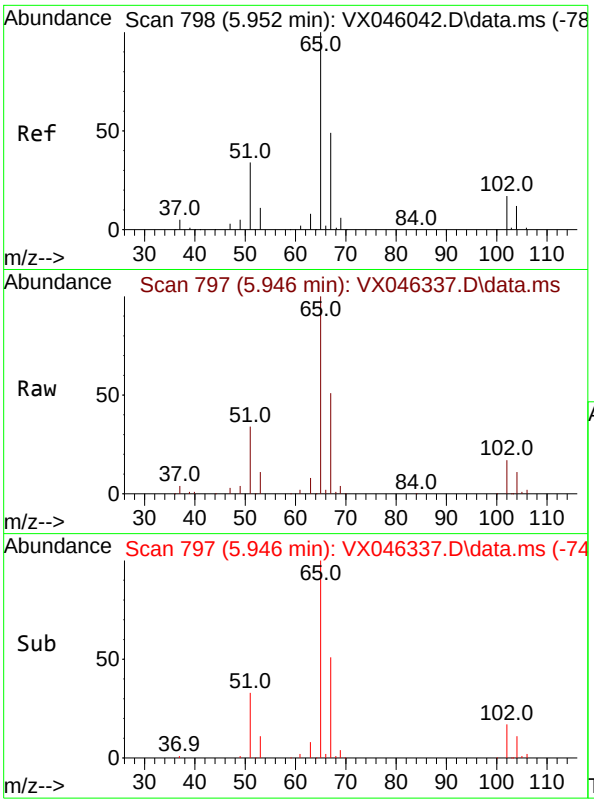


#32
1,1,1-Trichloroethane
Concen: 20.386 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.006 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 97 Resp: 39871

Ion	Ratio	Lower	Upper
97	100		
99	63.8	51.8	77.6
61	50.2	40.1	60.1



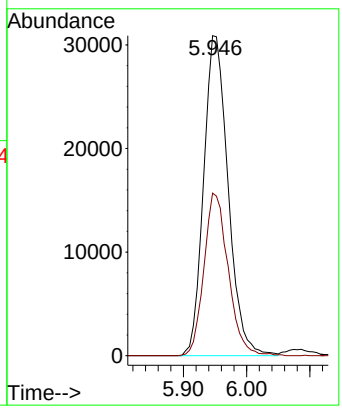


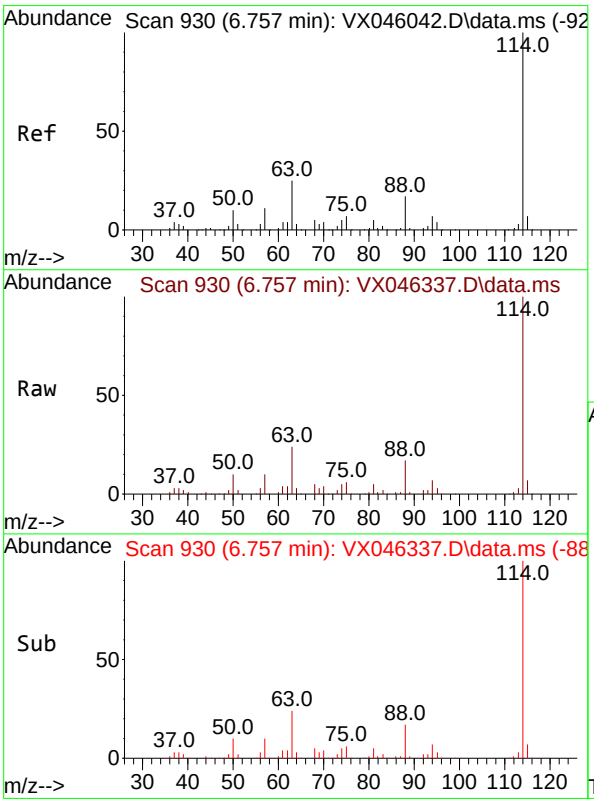
#33
1,2-Dichloroethane-d4
Concen: 50.193 ug/l
RT: 5.946 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBSD01

Tgt Ion: 65 Resp: 83078

Ion	Ratio	Lower	Upper
65	100		
67	50.4	0.0	99.0

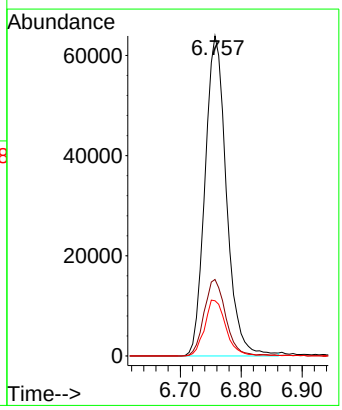


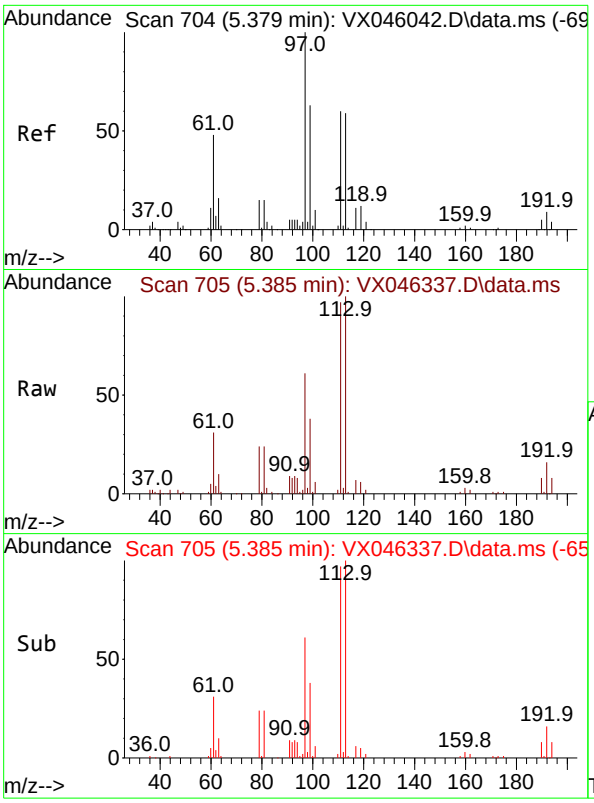


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion:114 Resp: 156018

Ion	Ratio	Lower	Upper
114	100		
63	23.9	0.0	49.2
88	17.3	0.0	33.6



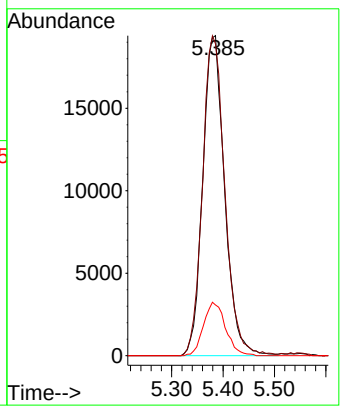


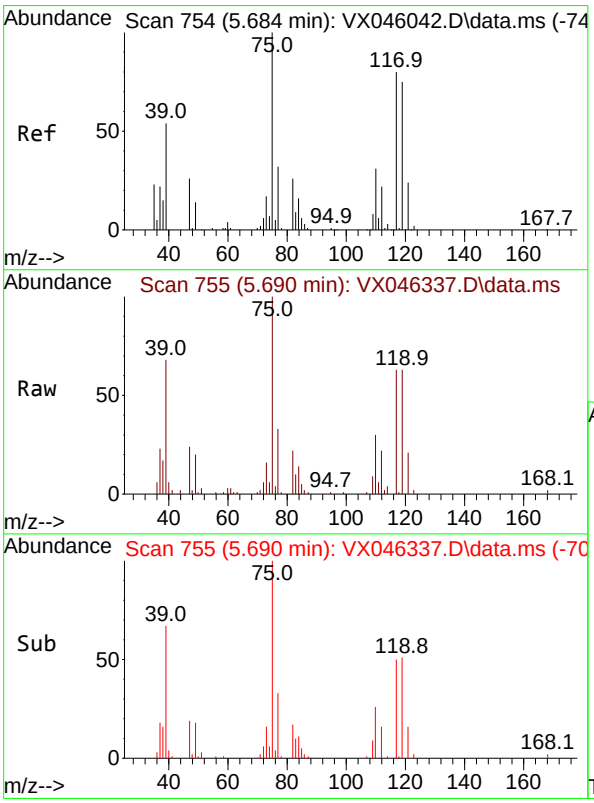
#35
Dibromofluoromethane
Concen: 51.100 ug/l
RT: 5.385 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBSD01

Tgt Ion:113 Resp: 57411

Ion	Ratio	Lower	Upper
113	100		
111	101.8	83.1	124.7
192	16.9	13.3	19.9

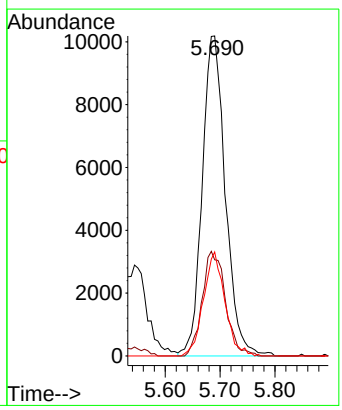


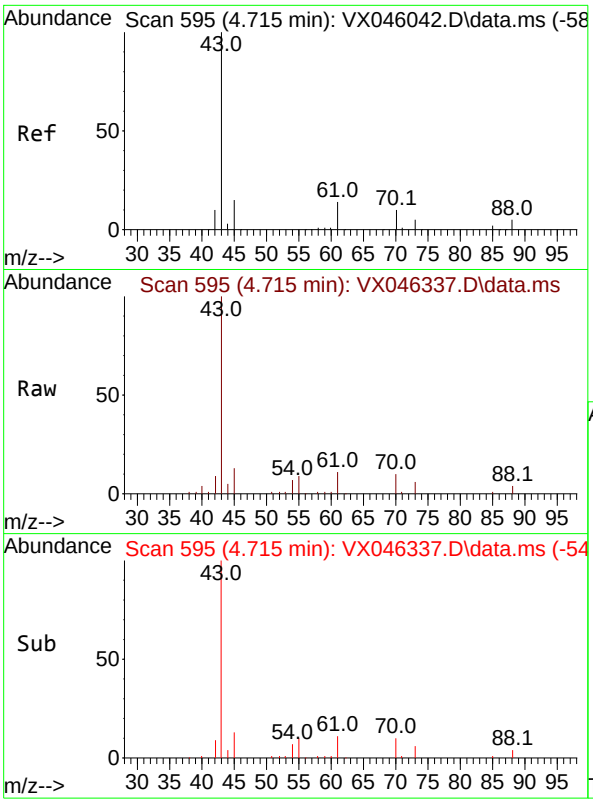


#36
1,1-Dichloropropene
Concen: 19.774 ug/l
RT: 5.690 min Scan# 755
Delta R.T. 0.006 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 75 Resp: 29850

Ion	Ratio	Lower	Upper
75	100		
110	32.8	16.3	48.9
77	30.2	24.3	36.5



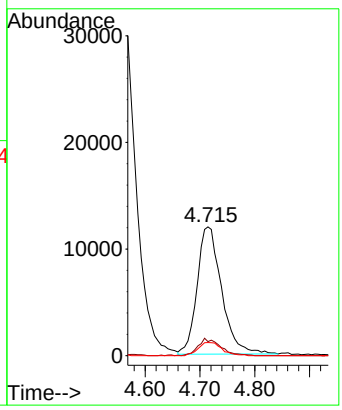


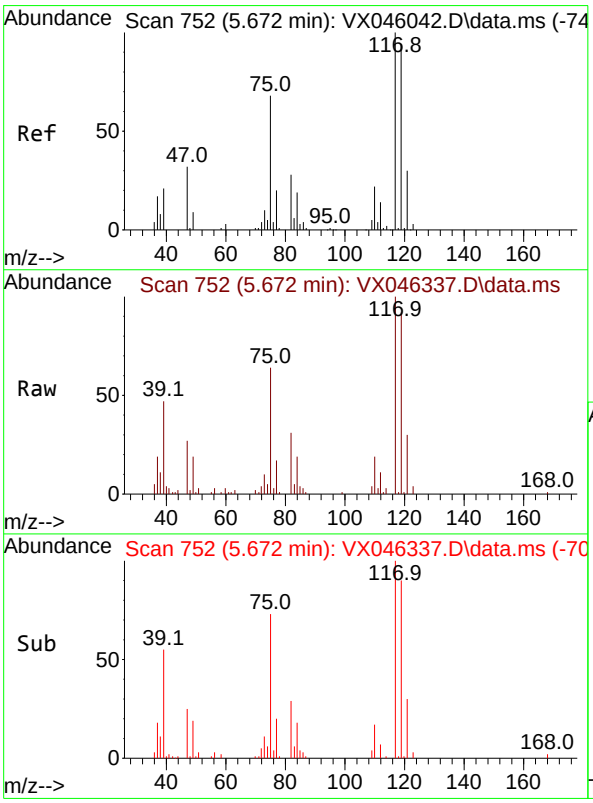
#37
Ethyl Acetate
Concen: 19.914 ug/l
RT: 4.715 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBSD01

Tgt Ion: 43 Resp: 37140

Ion	Ratio	Lower	Upper
43	100		
61	12.4	10.3	15.5
70	9.9	7.9	11.9

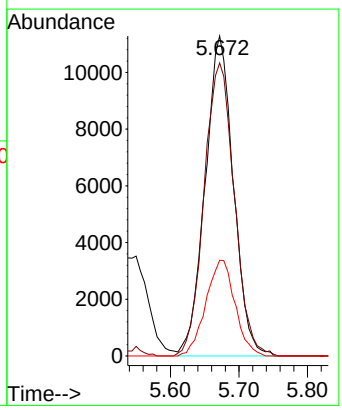


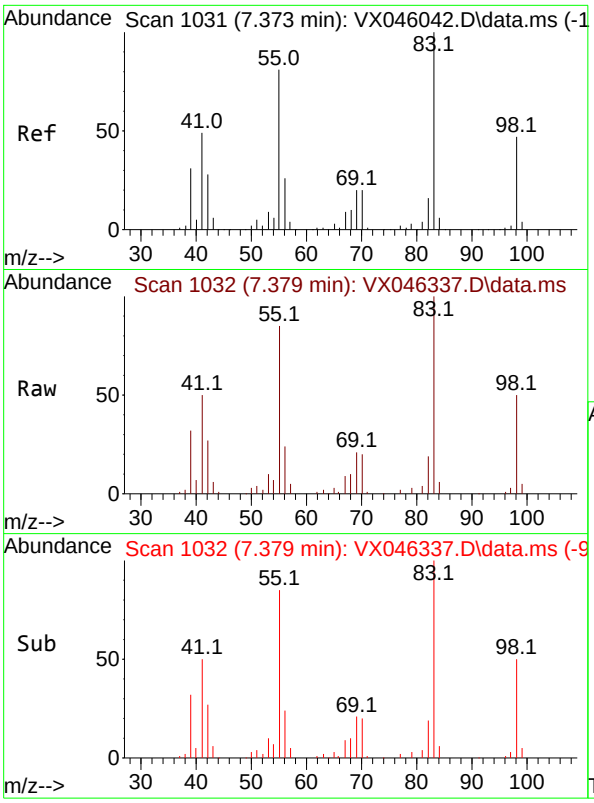


#38
Carbon Tetrachloride
Concen: 19.073 ug/l
RT: 5.672 min Scan# 752
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion:117 Resp: 32350

Ion	Ratio	Lower	Upper
117	100		
119	91.6	75.2	112.8
121	29.9	24.2	36.4



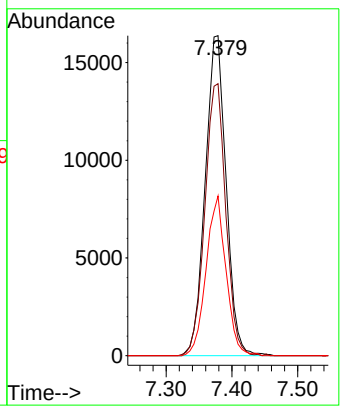


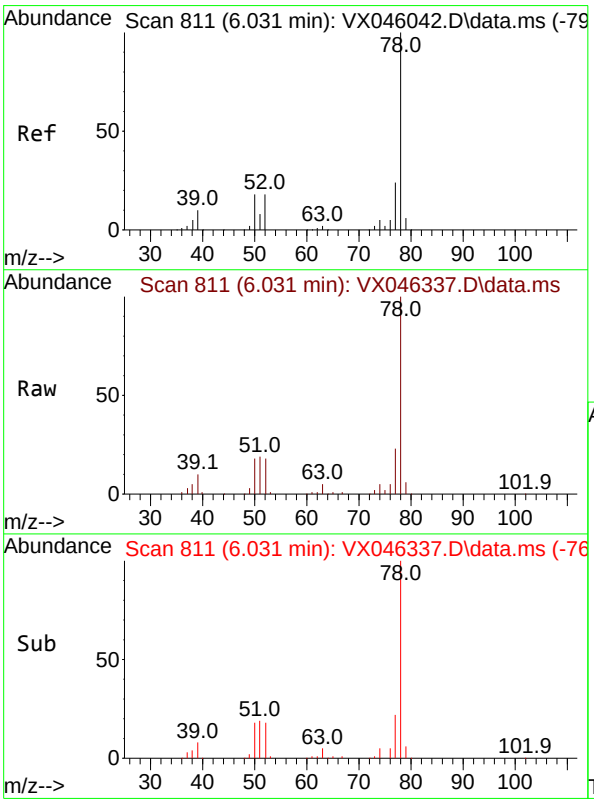
#39
Methylcyclohexane
Concen: 18.644 ug/l
RT: 7.379 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBSD01

Tgt Ion: 83 Resp: 36232

Ion	Ratio	Lower	Upper
83	100		
55	85.0	64.7	97.1
98	49.9	37.4	56.2

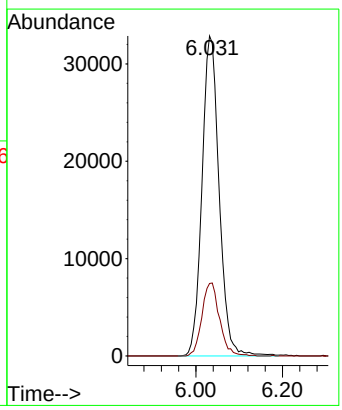


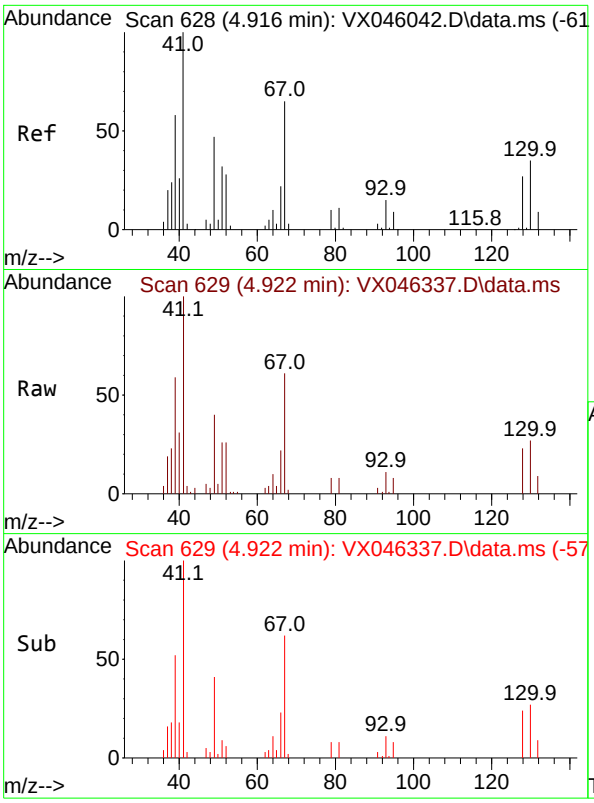


#40
Benzene
Concen: 20.439 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 78 Resp: 90373

Ion	Ratio	Lower	Upper
78	100		
77	22.7	19.0	28.4



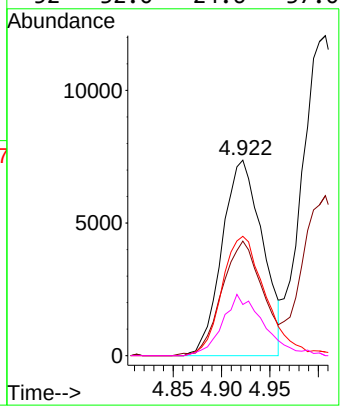


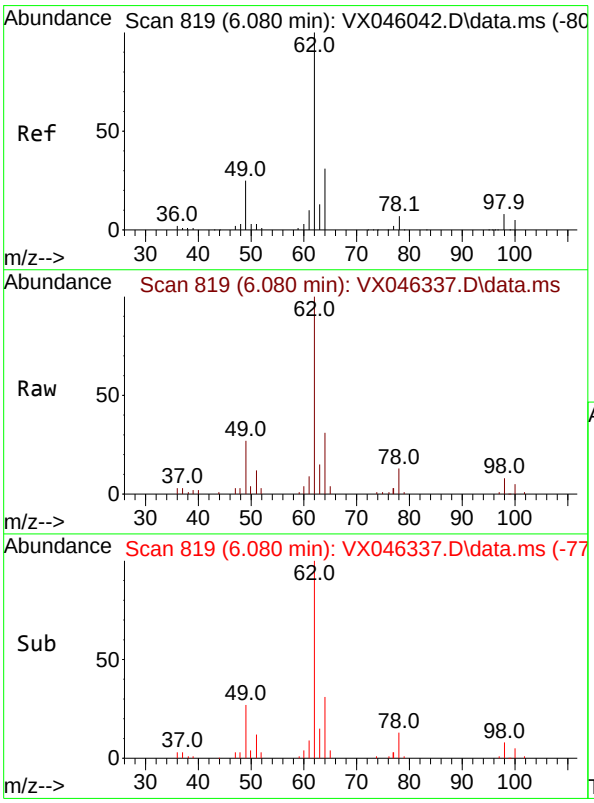
#41
Methacrylonitrile
Concen: 22.034 ug/l
RT: 4.922 min Scan# 6
Delta R.T. 0.006 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBSD01

Tgt Ion: 41 Resp: 21497

Ion	Ratio	Lower	Upper
41	100		
39	58.5	47.2	70.8
67	65.9	50.7	76.1
52	32.0	24.6	37.0

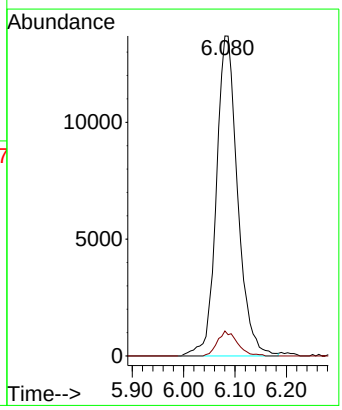


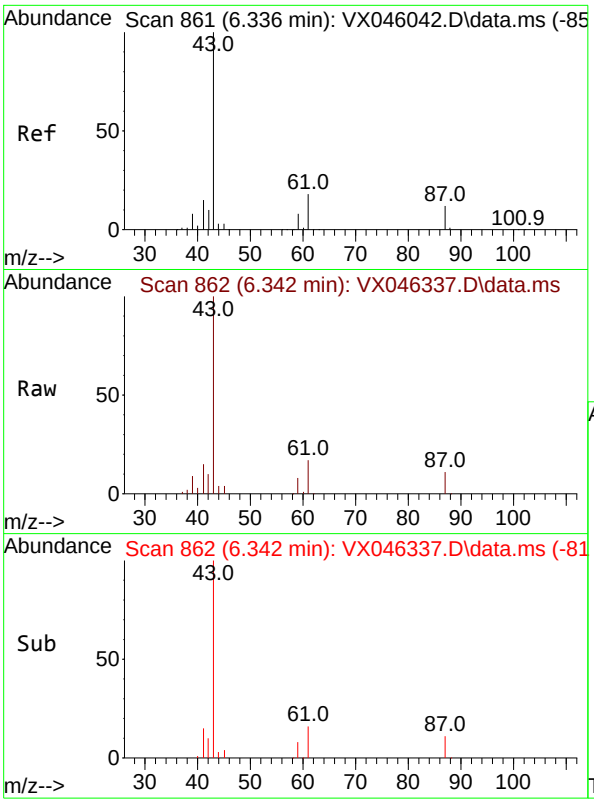


#42
1,2-Dichloroethane
Concen: 20.654 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 62 Resp: 39414

Ion	Ratio	Lower	Upper
62	100		
98	7.3	0.0	15.2



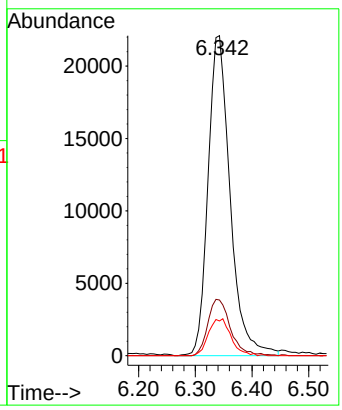


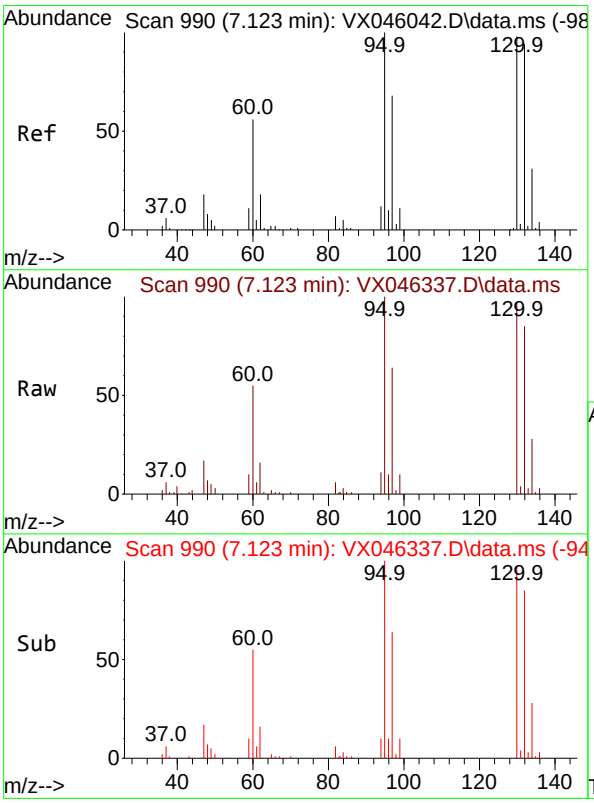
#43
Isopropyl Acetate
Concen: 21.036 ug/l
RT: 6.342 min Scan# 8
Delta R.T. 0.006 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBSD01

Tgt Ion: 43 Resp: 59852

Ion	Ratio	Lower	Upper
43	100		
61	18.0	14.3	21.5
87	11.8	9.5	14.3

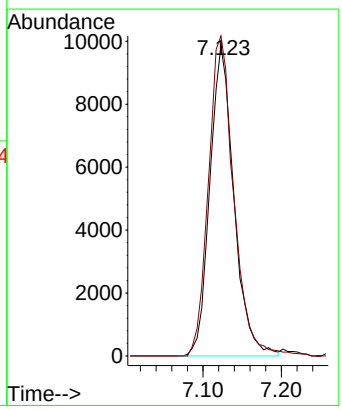


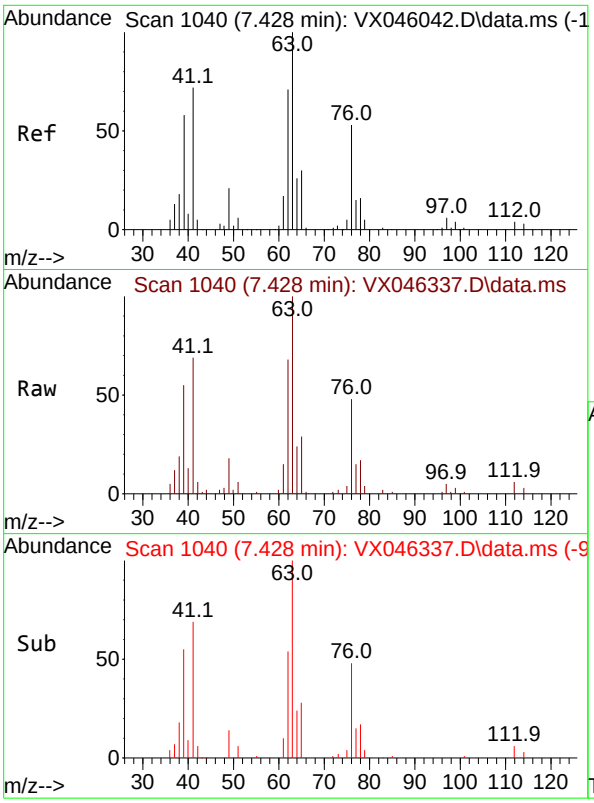


#44
Trichloroethene
Concen: 19.770 ug/l
RT: 7.123 min Scan# 990
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion:130 Resp: 21039

Ion	Ratio	Lower	Upper
130	100		
95	103.2	0.0	204.2



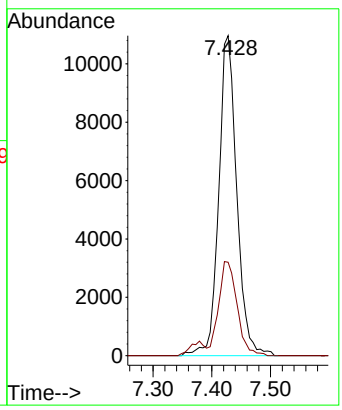


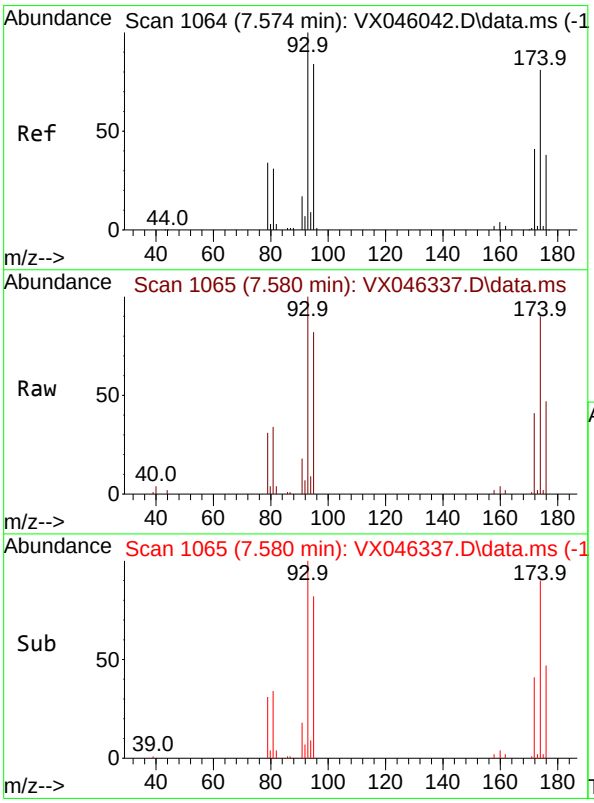
#45
1,2-Dichloropropane
Concen: 21.269 ug/l
RT: 7.428 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBSD01

Tgt Ion: 63 Resp: 23384

Ion	Ratio	Lower	Upper
63	100		
65	29.2	24.1	36.1

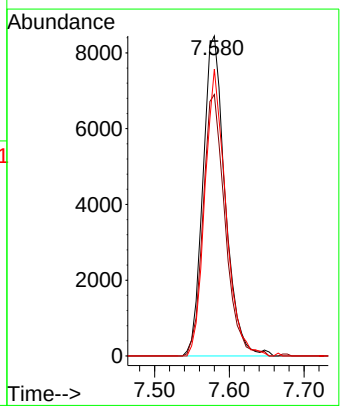


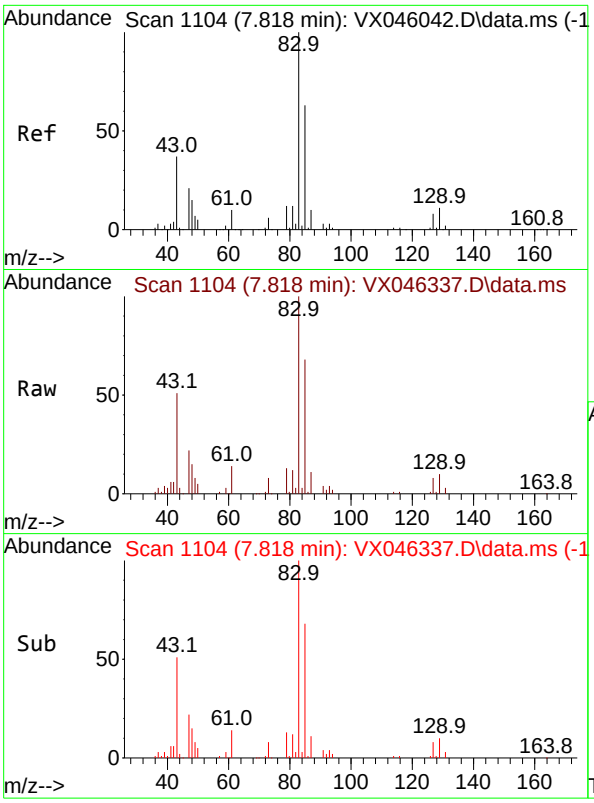


#46
Dibromomethane
Concen: 20.043 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. 0.006 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 93 Resp: 17380

Ion	Ratio	Lower	Upper
93	100		
95	81.3	65.6	98.4
174	84.6	68.2	102.2



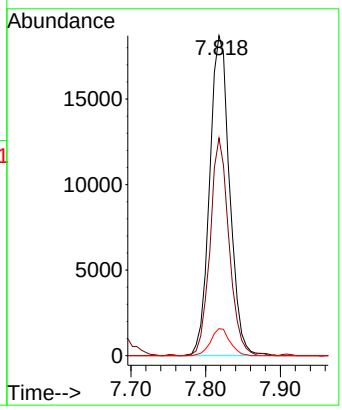


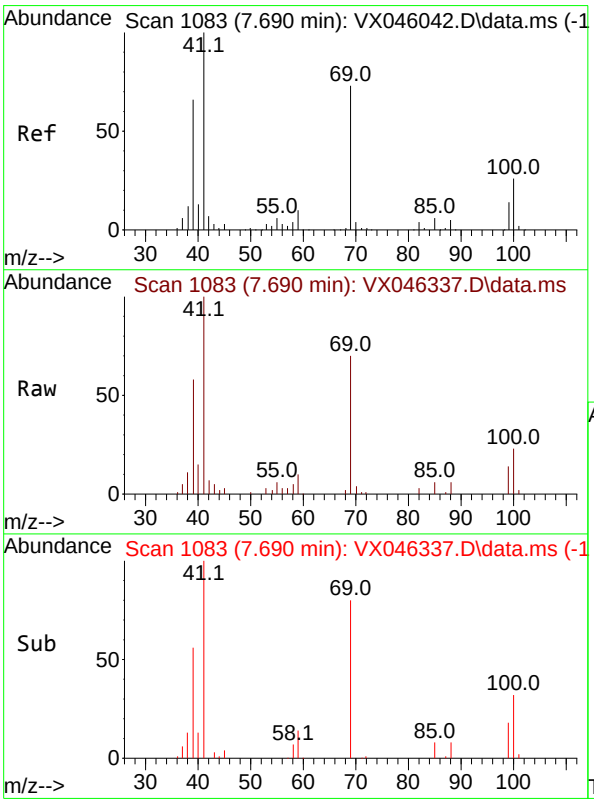
#47
Bromodichloromethane
Concen: 20.324 ug/l
RT: 7.818 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBSD01

Tgt Ion: 83 Resp: 34711

Ion	Ratio	Lower	Upper
83	100		
85	68.0	50.5	75.7
127	8.5	6.5	9.7

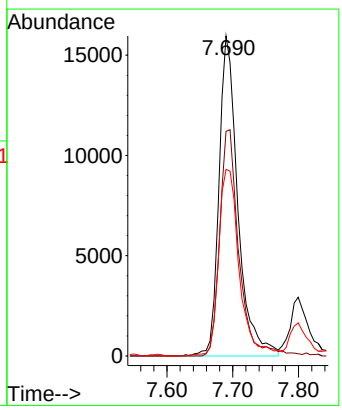


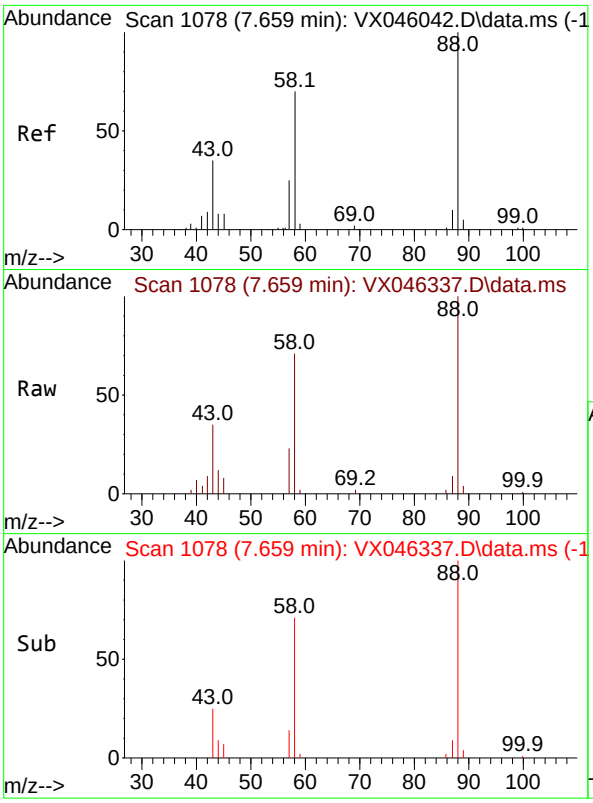


#48
Methyl methacrylate
Concen: 21.940 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 41 Resp: 31880

Ion	Ratio	Lower	Upper
41	100		
69	71.7	58.5	87.7
39	63.9	51.7	77.5



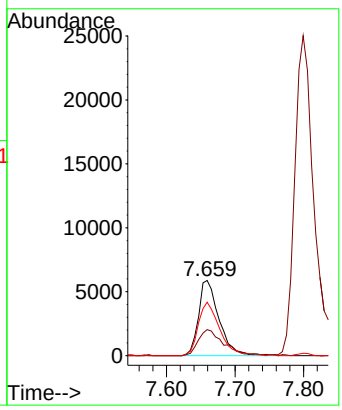


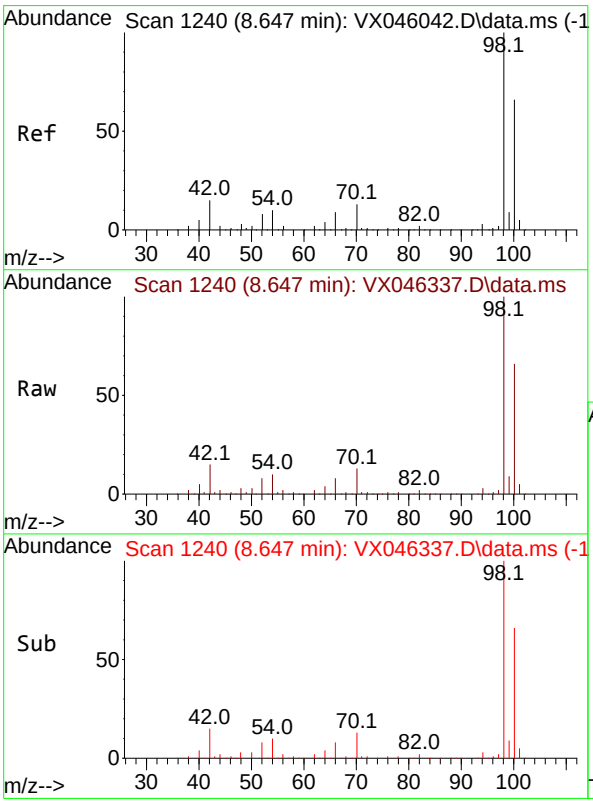
#49
1,4-Dioxane
Concen: 443.135 ug/l
RT: 7.659 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBSD01

Tgt Ion: 88 Resp: 12226

Ion	Ratio	Lower	Upper
88	100		
43	43.0	33.4	50.2
58	73.8	58.6	88.0

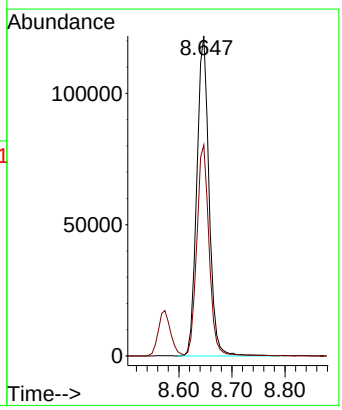


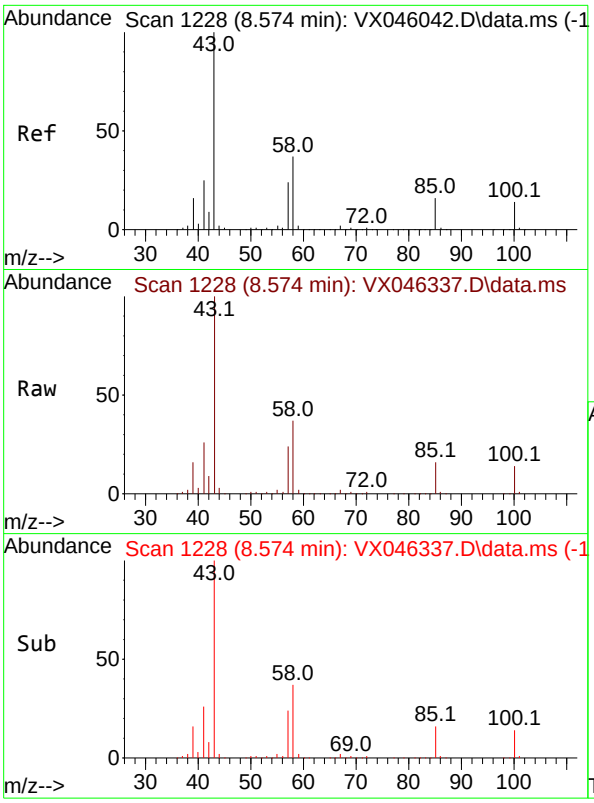


#50
Toluene-d8
Concen: 50.259 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 98 Resp: 195435

Ion	Ratio	Lower	Upper
98	100		
100	66.4	53.5	80.3



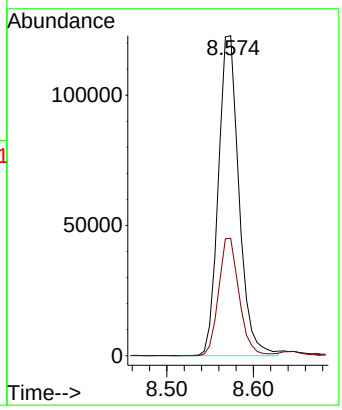


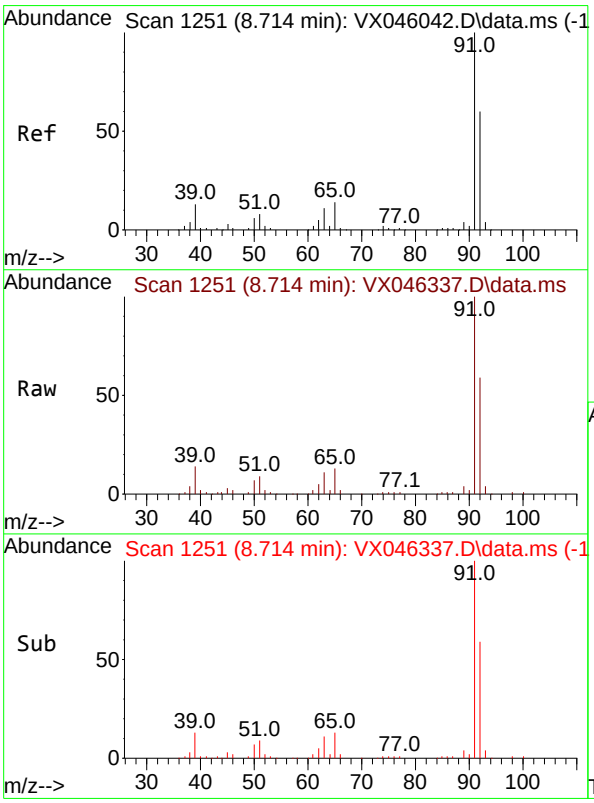
#51
4-Methyl-2-Pentanone
Concen: 107.703 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBSD01

Tgt Ion: 43 Resp: 203409

Ion	Ratio	Lower	Upper
43	100		
58	36.4	28.9	43.3

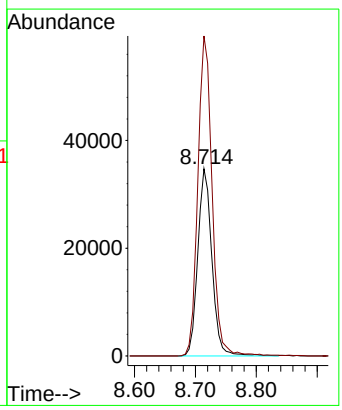


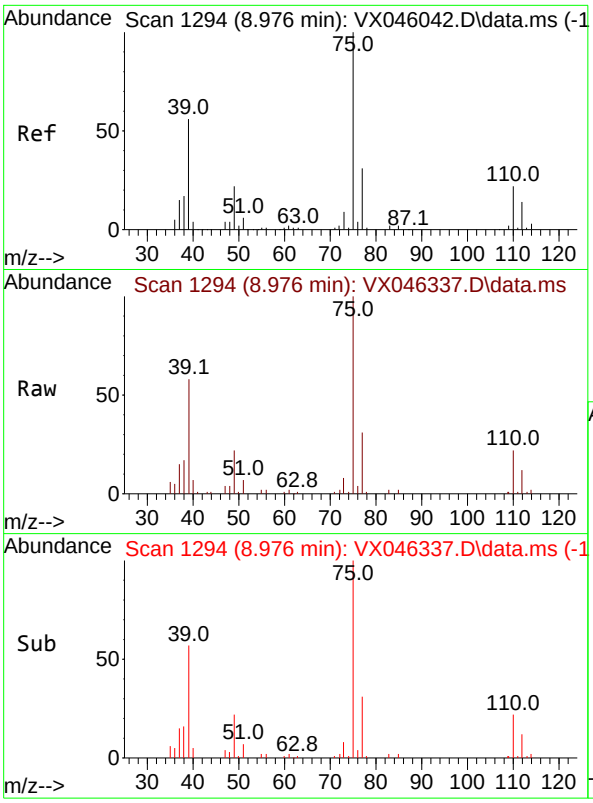


#52
Toluene
Concen: 20.664 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 92 Resp: 56025

Ion	Ratio	Lower	Upper
92	100		
91	172.1	136.6	205.0



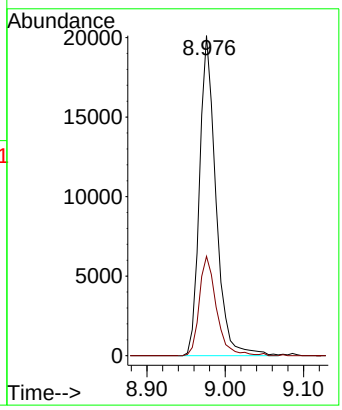


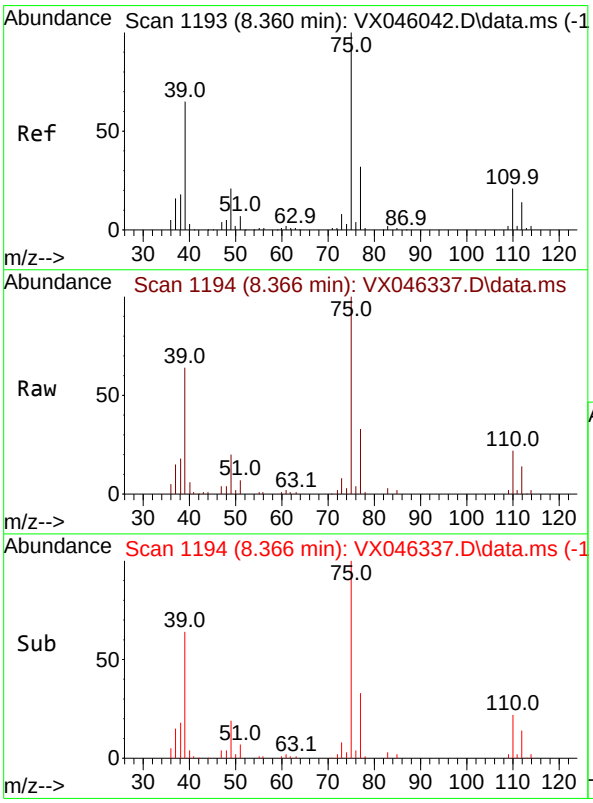
#53
t-1,3-Dichloropropene
Concen: 19.250 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBSD01

Tgt Ion: 75 Resp: 29223

Ion	Ratio	Lower	Upper
75	100		
77	31.0	25.0	37.6

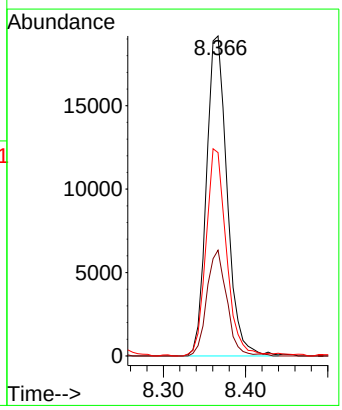


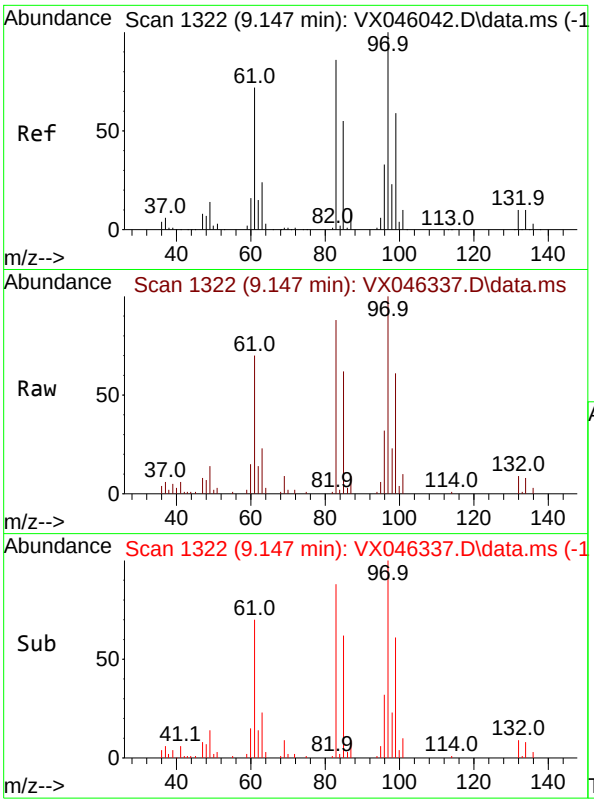


#54
cis-1,3-Dichloropropene
Concen: 19.964 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.006 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 75 Resp: 33496

Ion	Ratio	Lower	Upper
75	100		
77	33.0	25.4	38.0
39	63.5	52.2	78.4



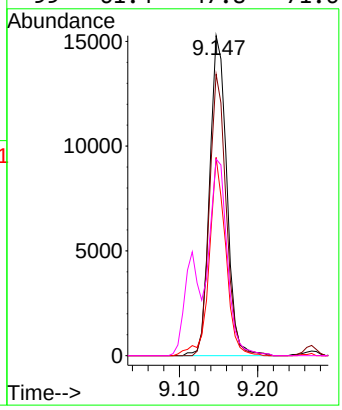


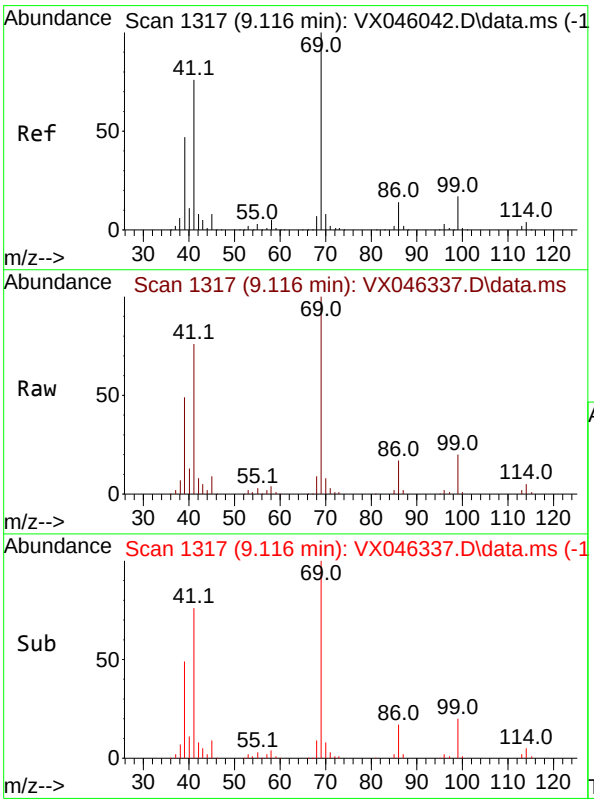
#55
1,1,2-Trichloroethane
Concen: 21.669 ug/l
RT: 9.147 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBSD01

Tgt Ion: 97 Resp: 23165

Ion	Ratio	Lower	Upper
97	100		
83	88.0	69.0	103.6
85	62.0	44.3	66.5
99	61.4	47.8	71.6

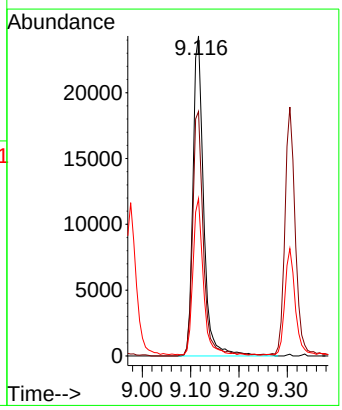


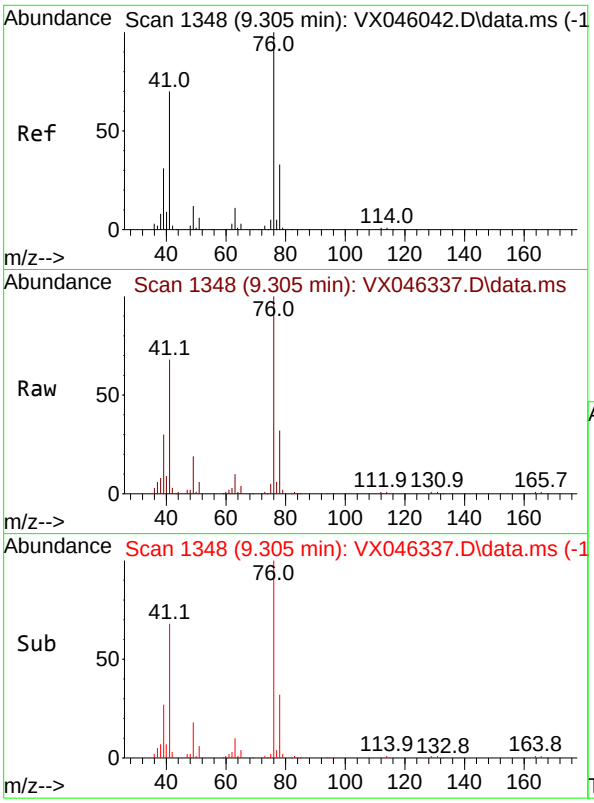


#56
Ethyl methacrylate
Concen: 21.892 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 69 Resp: 37300

Ion	Ratio	Lower	Upper
69	100		
41	77.0	60.8	91.2
39	47.8	39.0	58.6



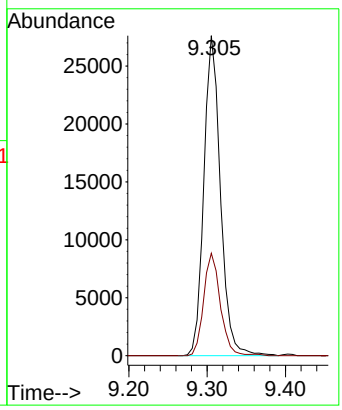


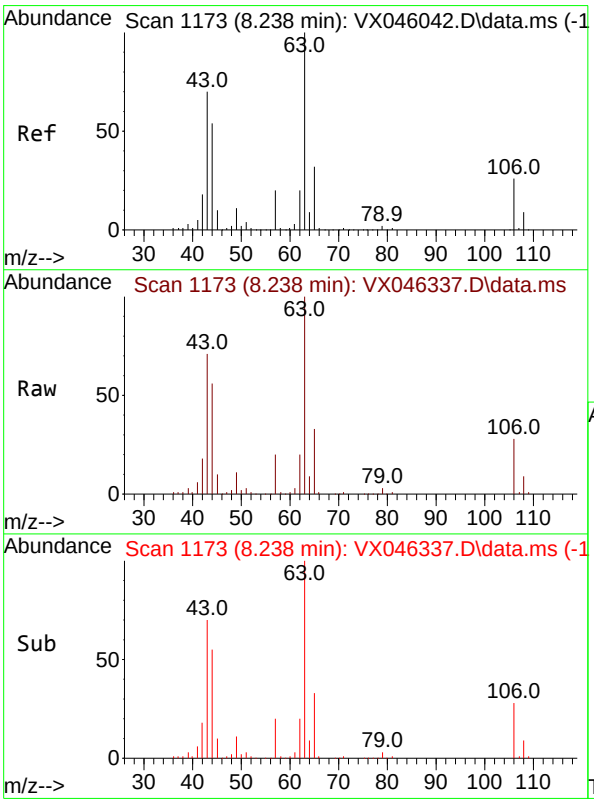
#57
1,3-Dichloropropane
Concen: 21.164 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBSD01

Tgt Ion: 76 Resp: 40634

Ion	Ratio	Lower	Upper
76	100		
78	32.2	26.3	39.5

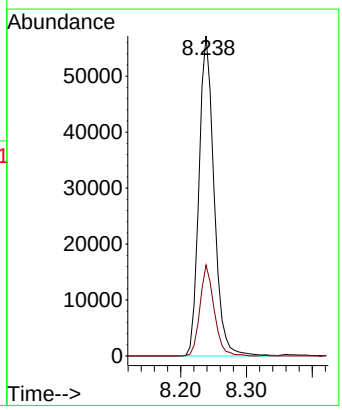


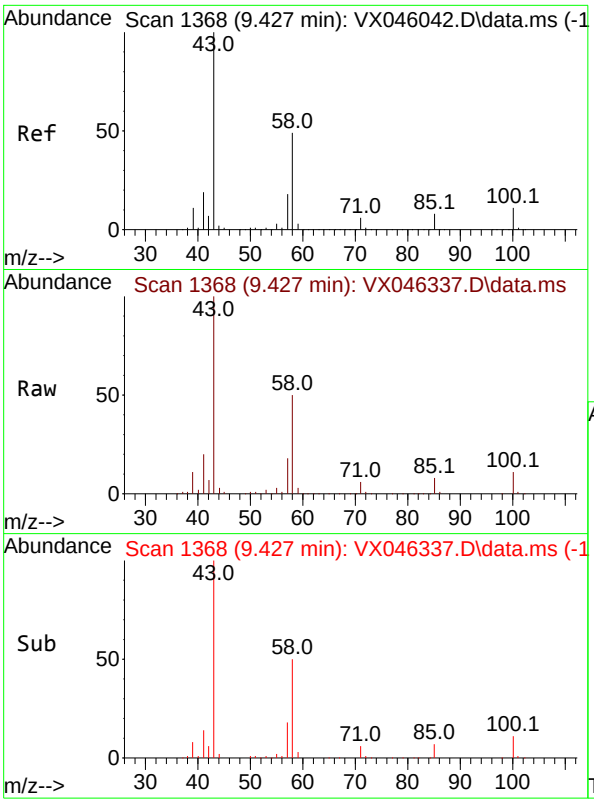


#58
2-Chloroethyl Vinyl ether
Concen: 105.020 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 63 Resp: 91224

Ion	Ratio	Lower	Upper
63	100		
106	26.8	21.5	32.3



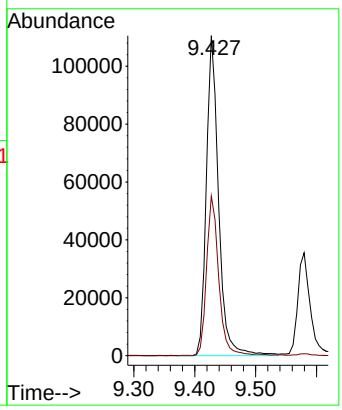


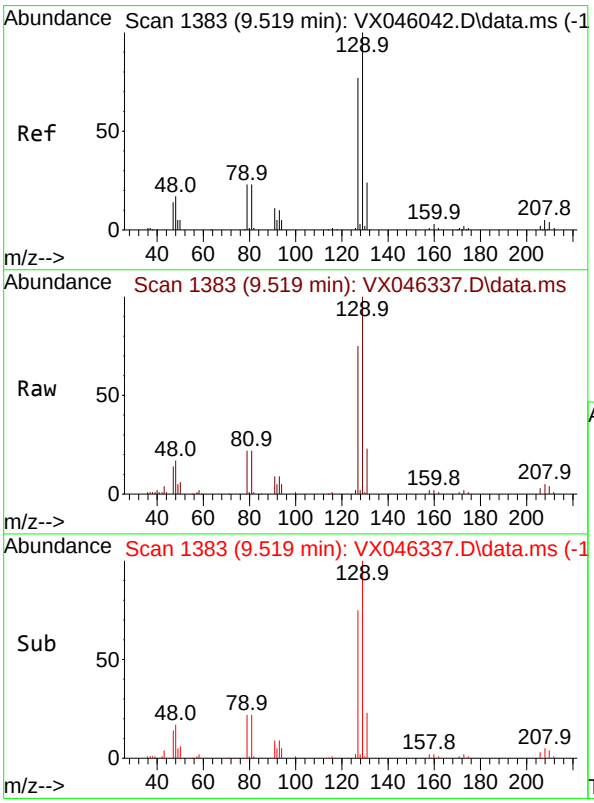
#59
2-Hexanone
Concen: 110.651 ug/l
RT: 9.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBSD01

Tgt Ion: 43 Resp: 154608

Ion	Ratio	Lower	Upper
43	100		
58	50.1	24.9	74.6

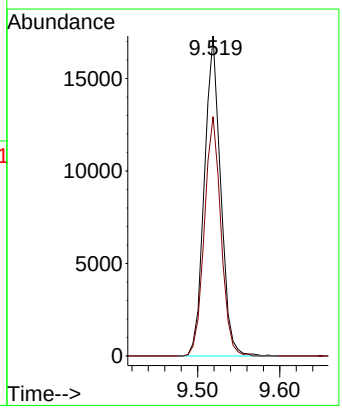


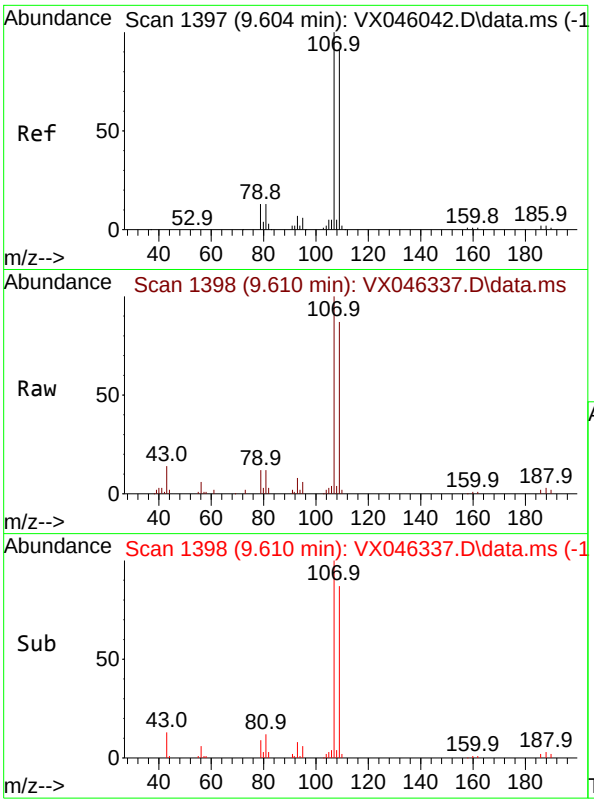


#60
Dibromochloromethane
Concen: 20.267 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion:129 Resp: 23795

Ion	Ratio	Lower	Upper
129	100		
127	76.0	39.3	117.8



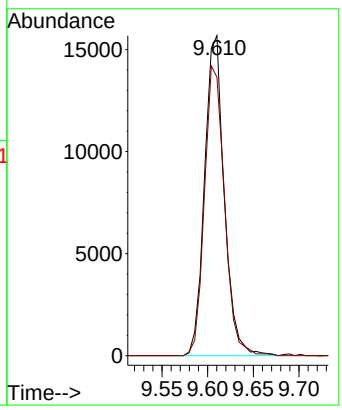


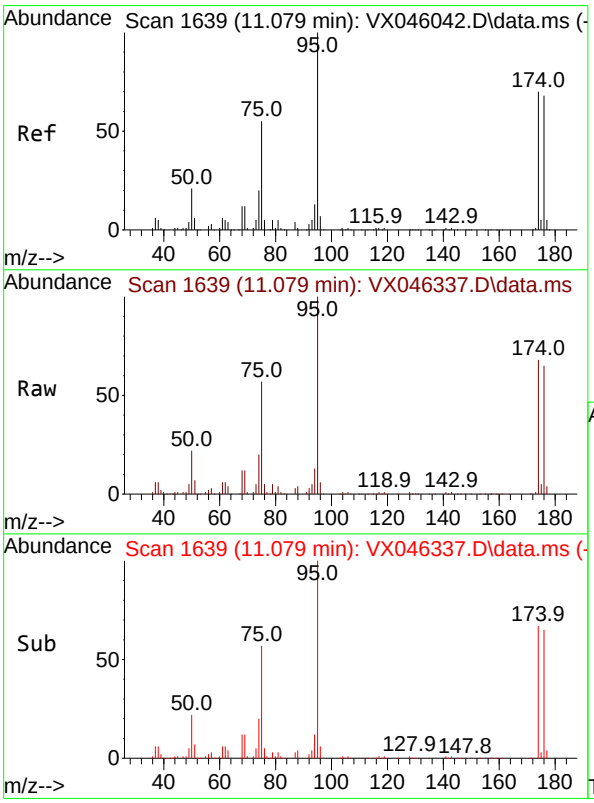
#61
1,2-Dibromoethane
Concen: 21.090 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBSD01

Tgt Ion:107 Resp: 23433

Ion	Ratio	Lower	Upper
107	100		
109	92.4	73.3	109.9

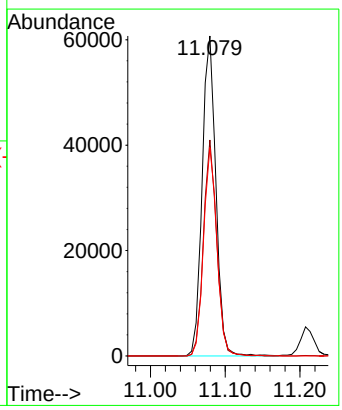


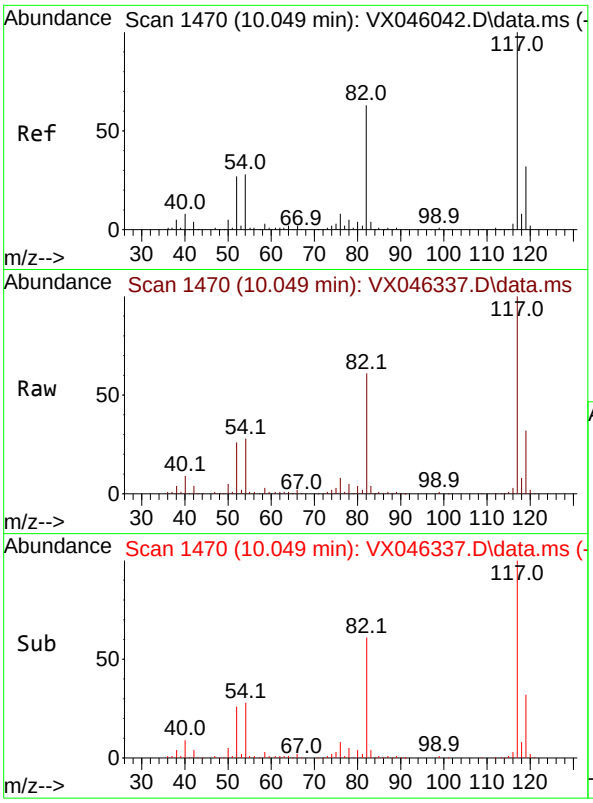


#62
4-Bromofluorobenzene
Concen: 51.761 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 95 Resp: 77206

Ion	Ratio	Lower	Upper
95	100		
174	65.2	0.0	135.8
176	63.8	0.0	131.4



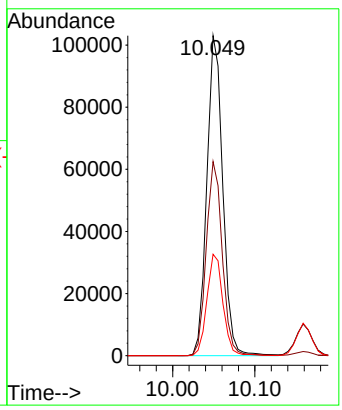


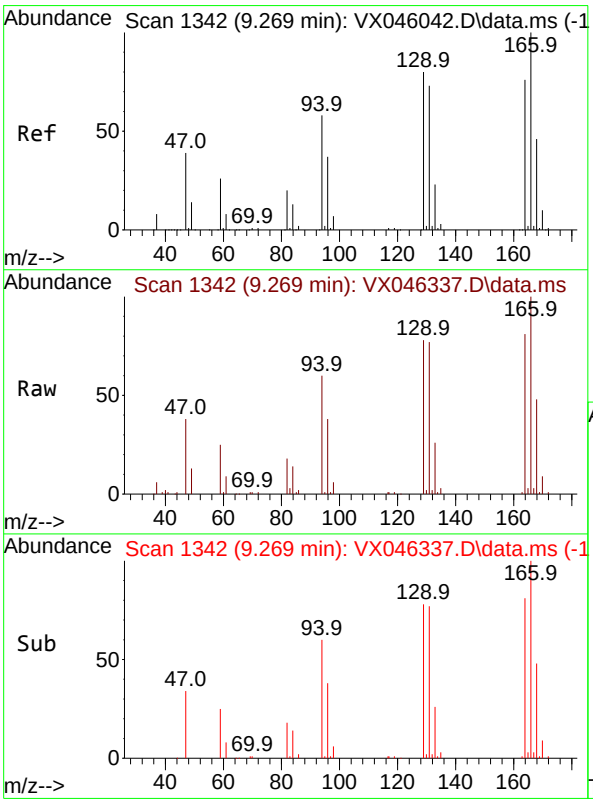
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBSD01

Tgt Ion:117 Resp: 138561

Ion	Ratio	Lower	Upper
117	100		
82	60.6	50.6	76.0
119	31.7	25.8	38.6

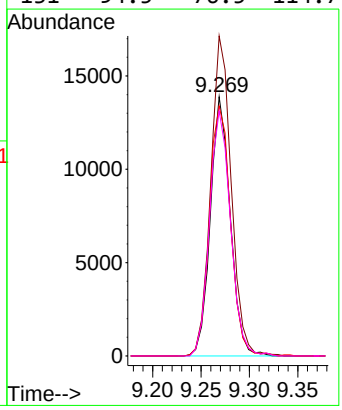


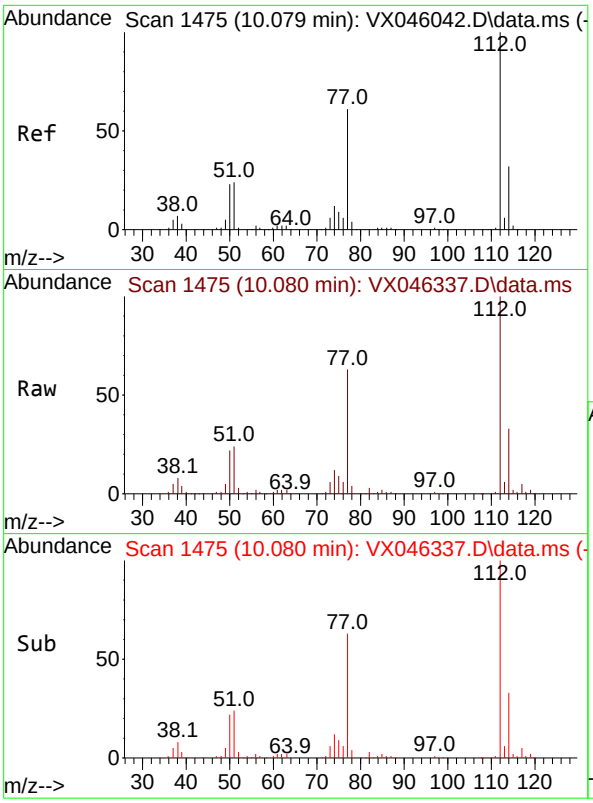


#64
Tetrachloroethene
Concen: 20.184 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion:164 Resp: 19788

Ion	Ratio	Lower	Upper
164	100		
166	123.5	105.0	157.6
129	96.4	83.5	125.3
131	94.5	76.5	114.7



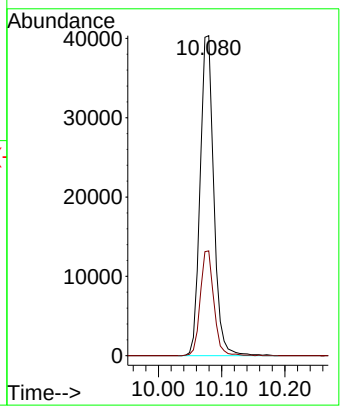


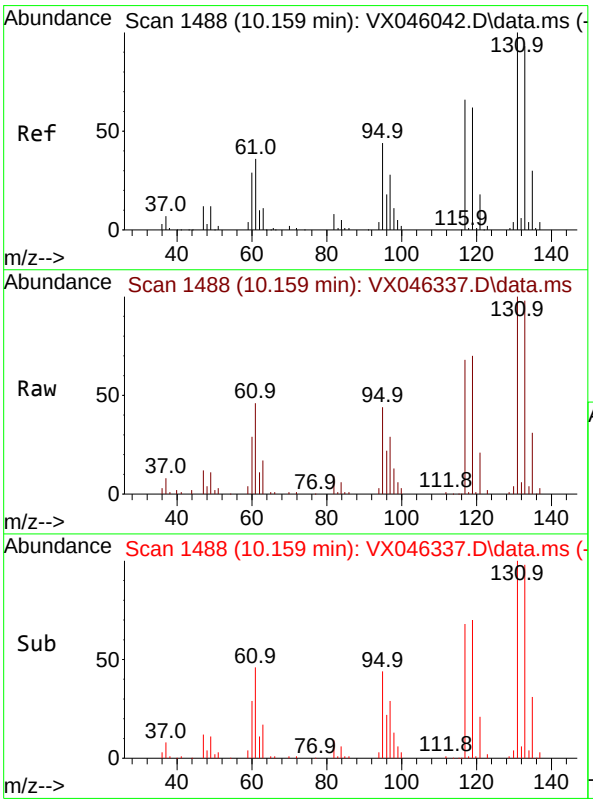
#65
Chlorobenzene
Concen: 20.002 ug/l
RT: 10.080 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBSD01

Tgt Ion:112 Resp: 60662

Ion	Ratio	Lower	Upper
112	100		
114	32.8	25.4	38.2

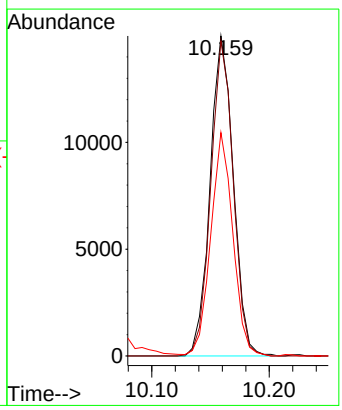


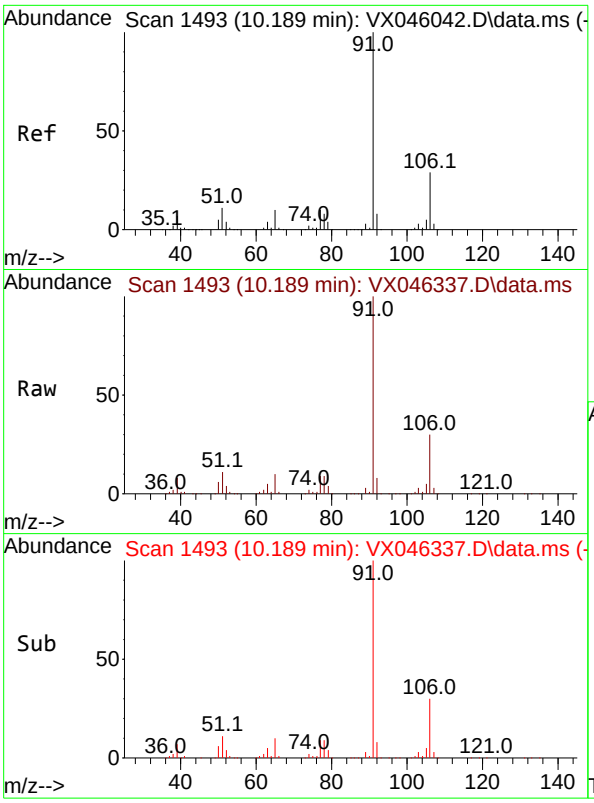


#66
1,1,1,2-Tetrachloroethane
Concen: 19.892 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion:131 Resp: 20600

Ion	Ratio	Lower	Upper
131	100		
133	95.0	47.3	141.9
119	66.4	31.6	95.0



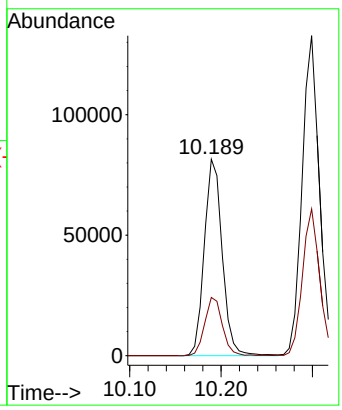


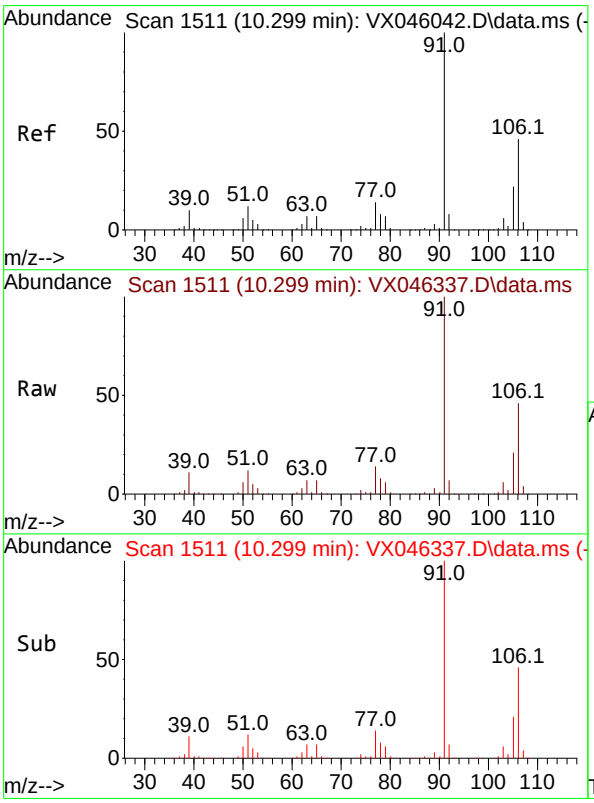
#67
Ethyl Benzene
Concen: 20.709 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBSD01

Tgt Ion: 91 Resp: 110710

Ion	Ratio	Lower	Upper
91	100		
106	29.6	23.4	35.2

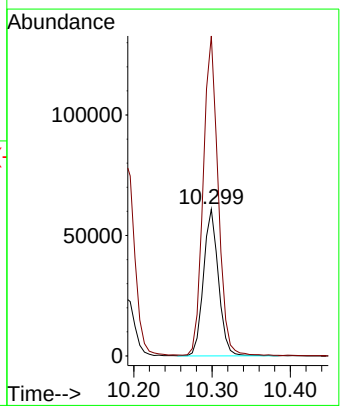


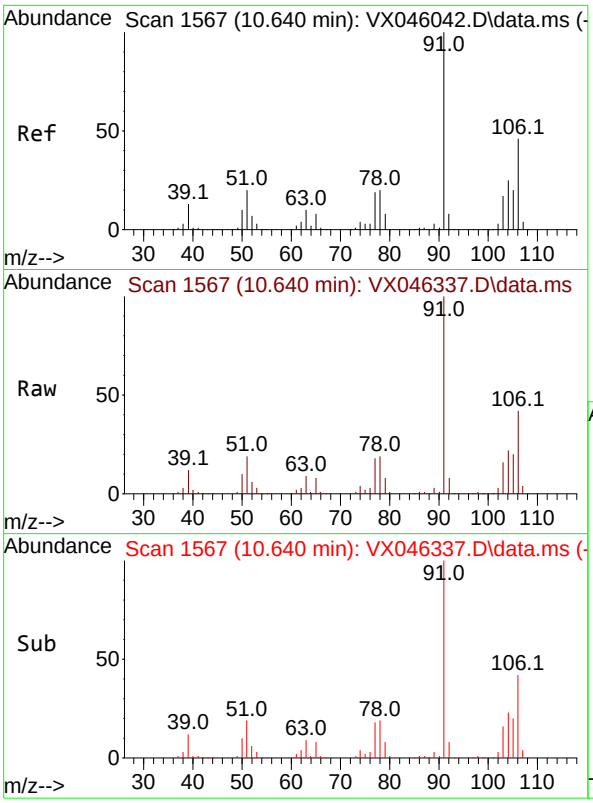


#68
m/p-Xylenes
Concen: 41.069 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion:106 Resp: 80300

Ion	Ratio	Lower	Upper
106	100		
91	218.4	171.2	256.8



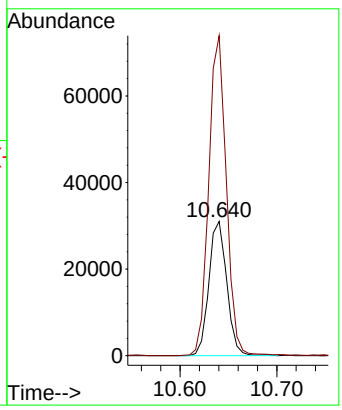


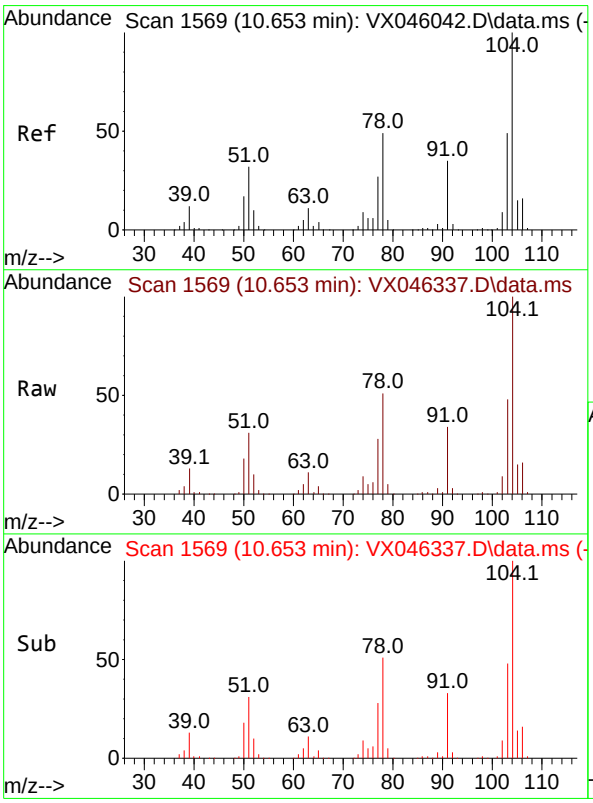
#69
o-Xylene
Concen: 20.990 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBSD01

Tgt Ion:106 Resp: 40011

Ion	Ratio	Lower	Upper
106	100		
91	234.4	112.7	338.1

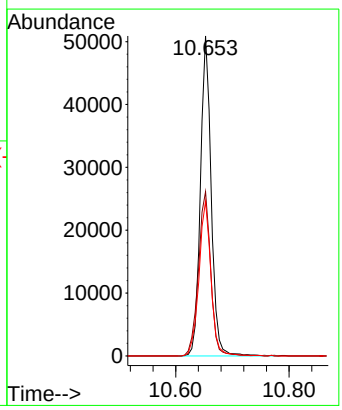


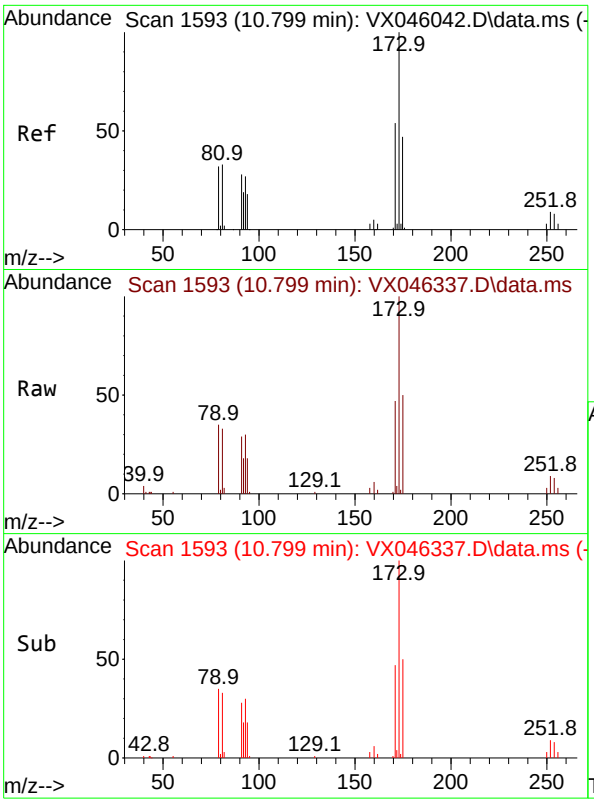


#70
Styrene
Concen: 21.468 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion:104 Resp: 67035

Ion	Ratio	Lower	Upper
104	100		
78	58.9	45.7	68.5
103	53.9	43.7	65.5



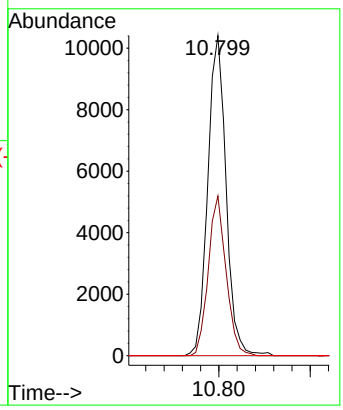


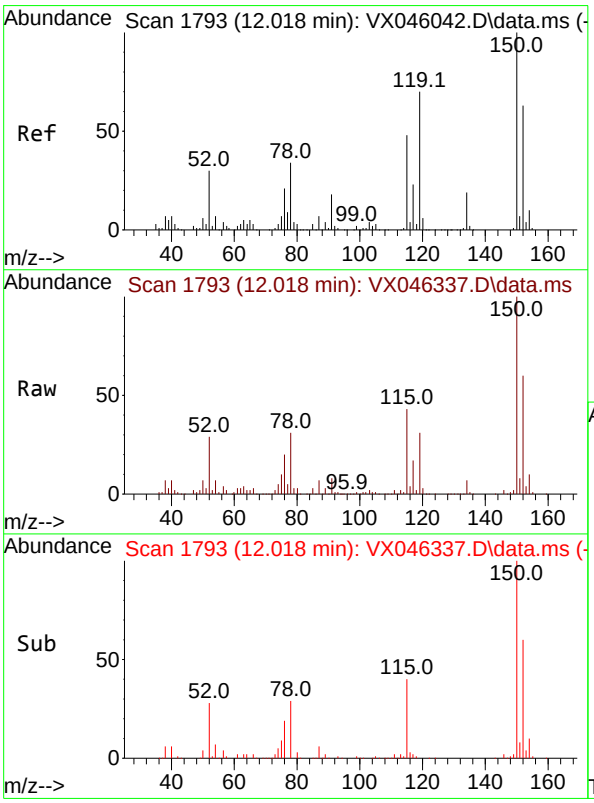
#71
Bromoform
Concen: 18.508 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBSD01

Tgt Ion:173 Resp: 14390

Ion	Ratio	Lower	Upper
173	100		
175	48.8	23.4	70.0
254	0.0	0.0	0.0

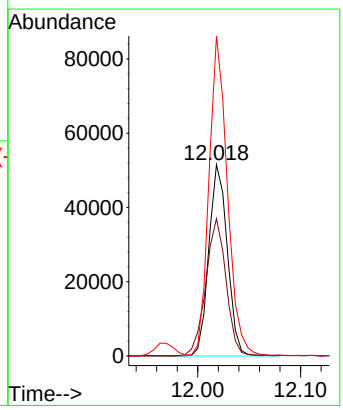


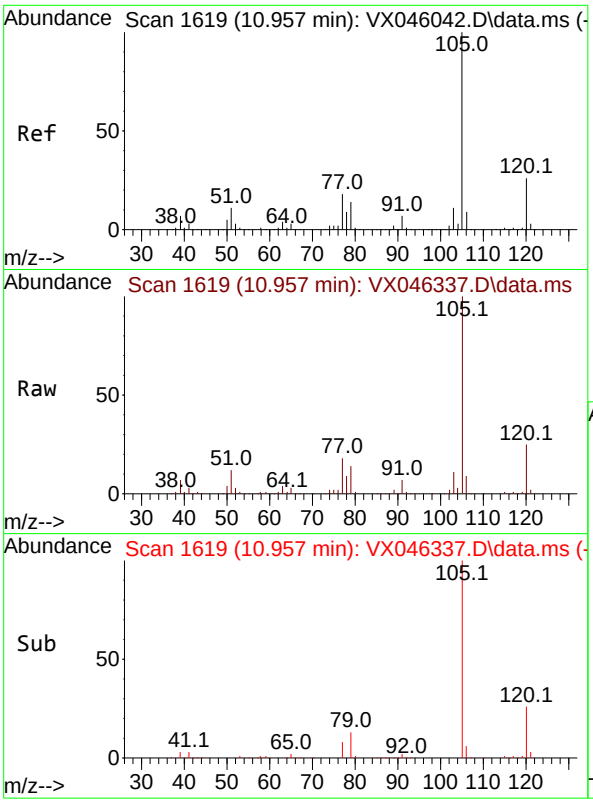


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion:152 Resp: 64515

Ion	Ratio	Lower	Upper
152	100		
115	78.7	46.9	140.7
150	165.9	0.0	351.0



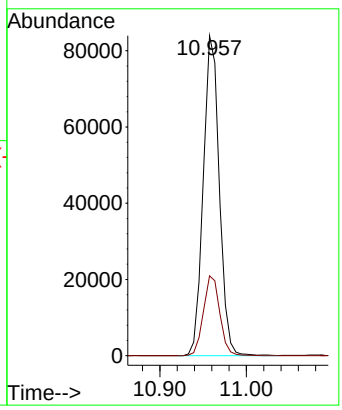


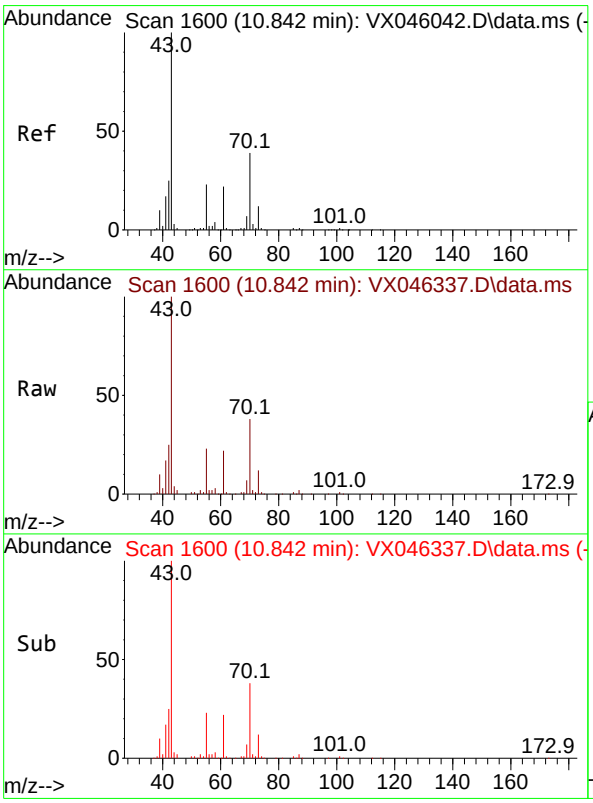
#73
Isopropylbenzene
Concen: 21.506 ug/l
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBSD01

Tgt Ion:105 Resp: 108018

Ion	Ratio	Lower	Upper
105	100		
120	25.5	12.8	38.4

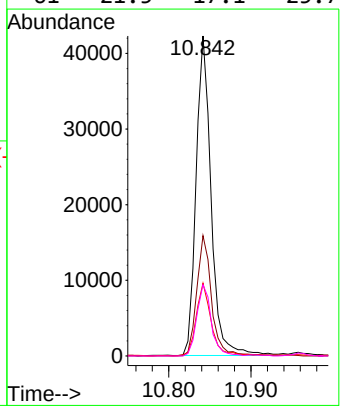


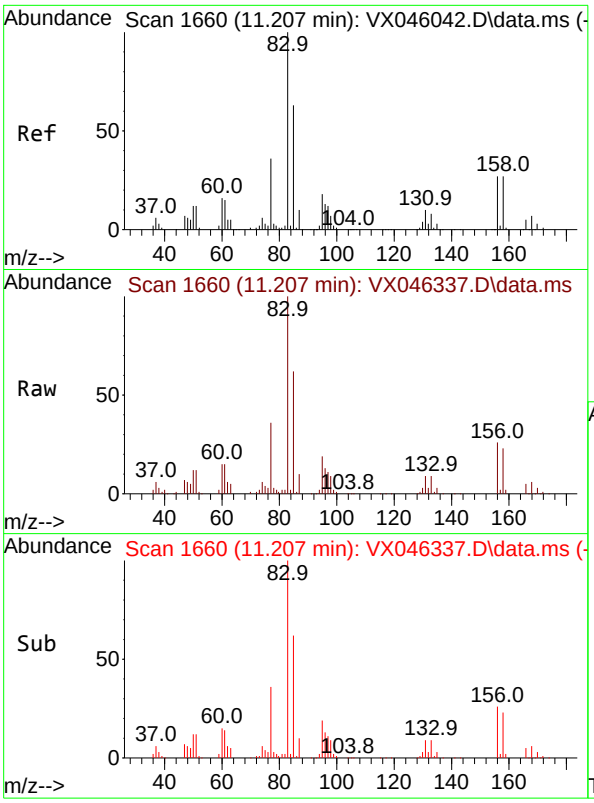


#74
N-amyl acetate
Concen: 21.617 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 43 Resp: 53653

Ion	Ratio	Lower	Upper
43	100		
70	37.3	30.9	46.3
55	23.1	18.7	28.1
61	21.5	17.1	25.7



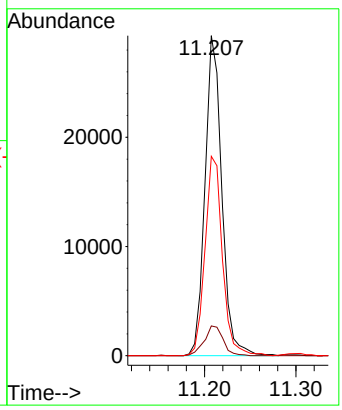


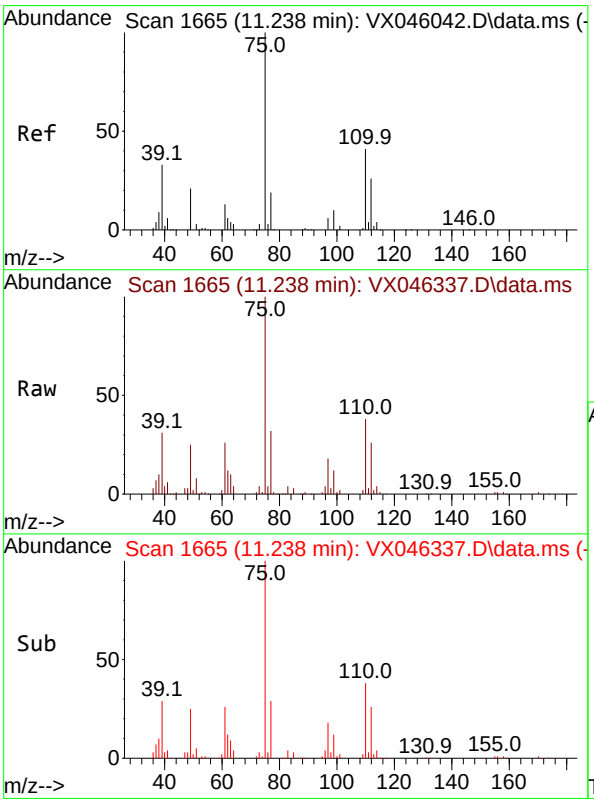
#75
1,1,2,2-Tetrachloroethane
Concen: 21.221 ug/l
RT: 11.207 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBSD01

Tgt Ion: 83 Resp: 37352

Ion	Ratio	Lower	Upper
83	100		
131	10.4	5.0	14.9
85	64.4	31.9	95.7

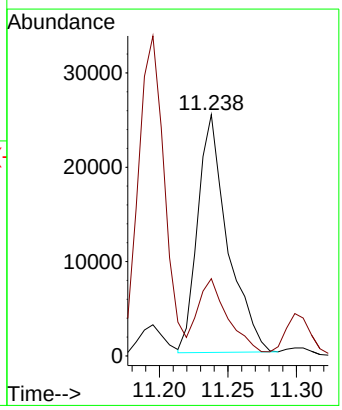


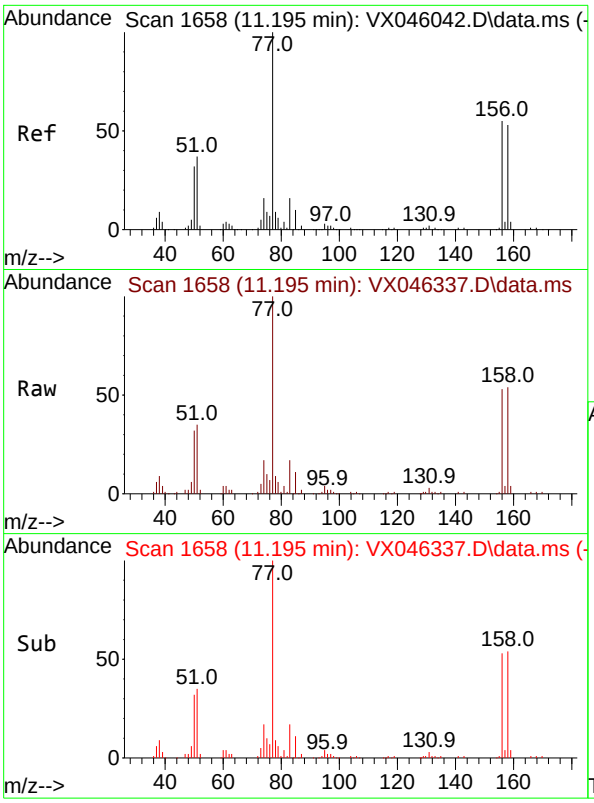


#76
1,2,3-Trichloropropane
Concen: 24.685 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 75 Resp: 38333

Ion	Ratio	Lower	Upper
75	100		
77	33.6	20.5	61.5



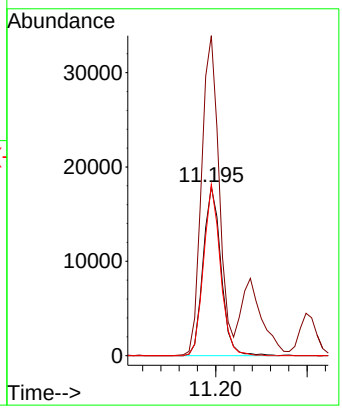


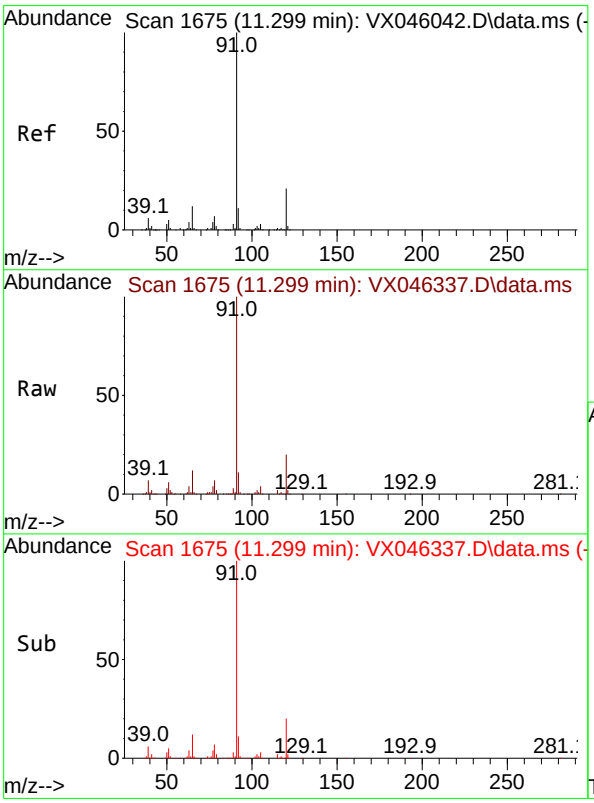
#77
Bromobenzene
Concen: 20.692 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBSD01

Tgt Ion:156 Resp: 24128

Ion	Ratio	Lower	Upper
156	100		
77	187.9	92.8	278.3
158	95.9	48.8	146.3

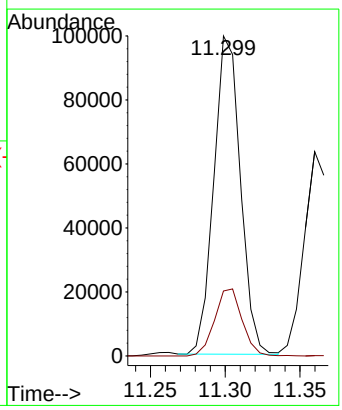


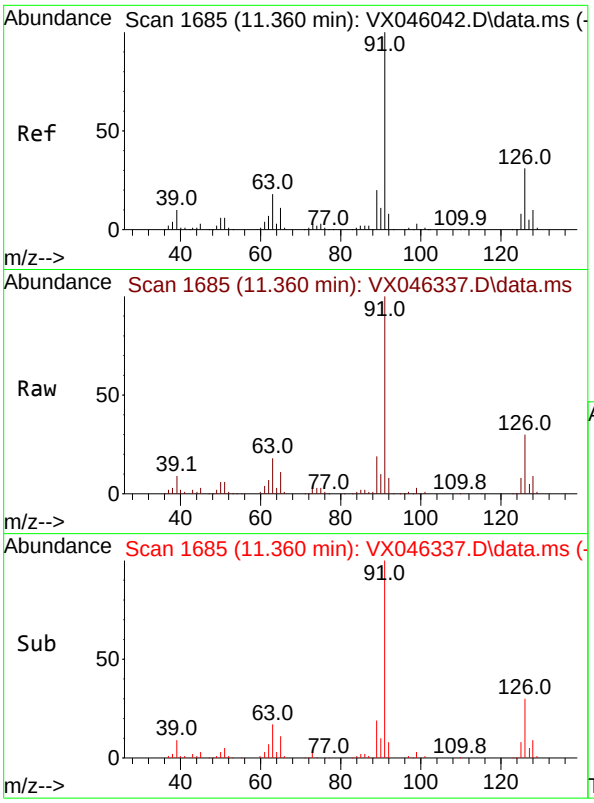


#78
n-propylbenzene
Concen: 21.050 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 91 Resp: 122931

Ion	Ratio	Lower	Upper
91	100		
120	21.8	10.8	32.4



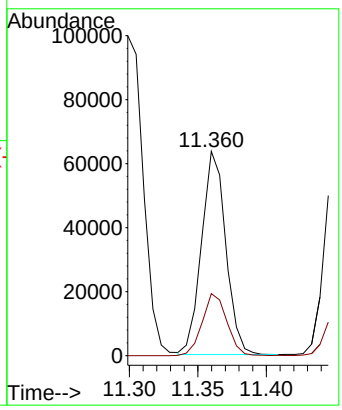


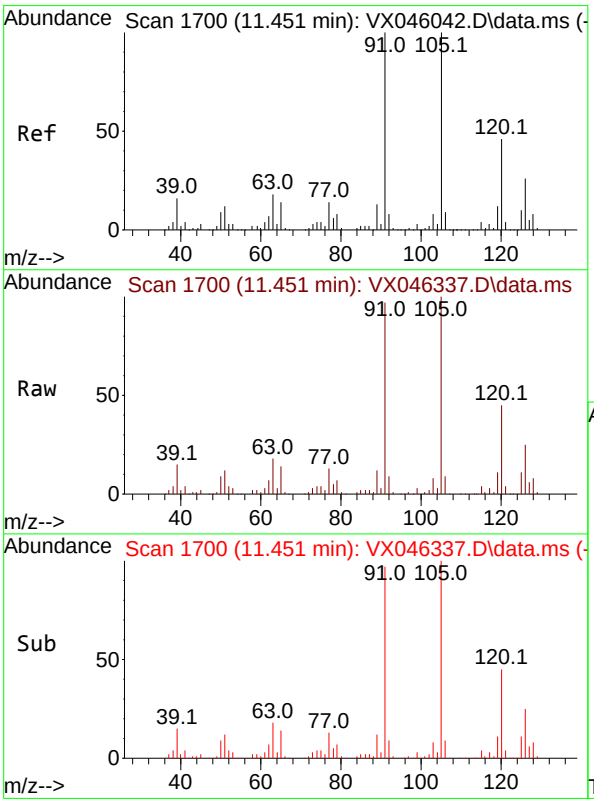
#79
2-Chlorotoluene
Concen: 20.765 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBSD01

Tgt Ion: 91 Resp: 78220

Ion	Ratio	Lower	Upper
91	100		
126	31.2	15.6	46.7

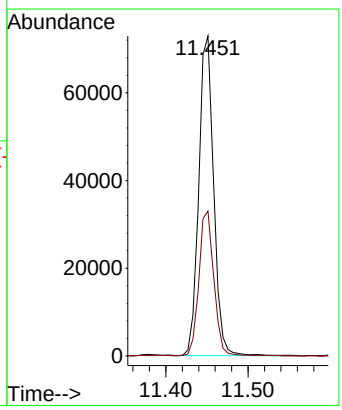


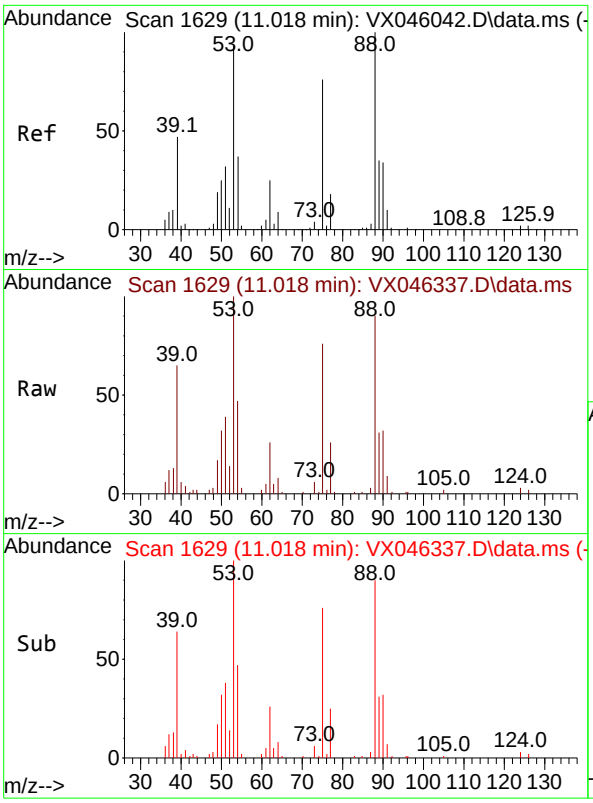


#80
1,3,5-Trimethylbenzene
Concen: 21.833 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion:105 Resp: 91615

Ion	Ratio	Lower	Upper
105	100		
120	45.8	23.1	69.2



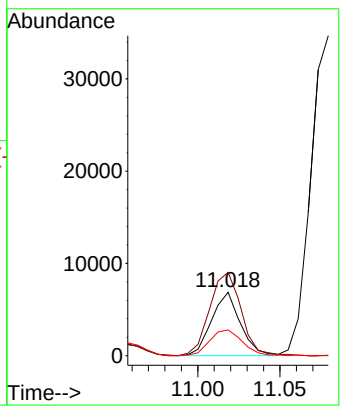


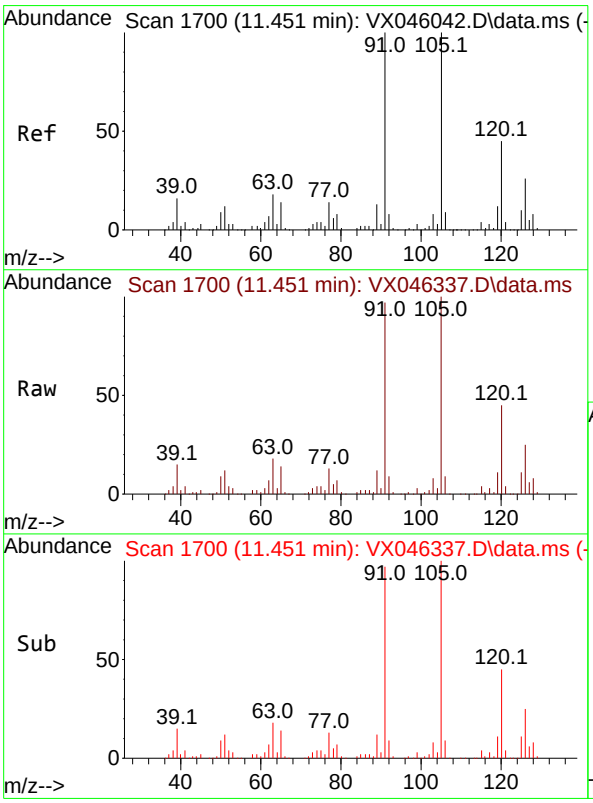
#81
trans-1,4-Dichloro-2-butene
Concen: 17.558 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBSD01

Tgt Ion: 75 Resp: 8375

Ion	Ratio	Lower	Upper
75	100		
53	143.5	100.5	150.7
89	46.4	37.0	55.6

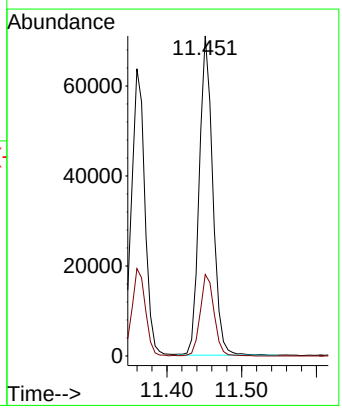


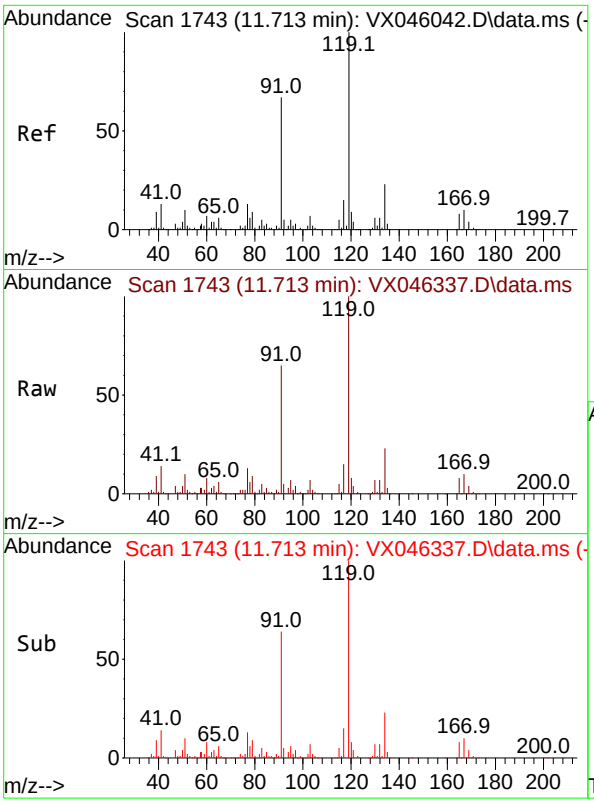


#82
4-Chlorotoluene
Concen: 21.268 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 91 Resp: 88845

Ion	Ratio	Lower	Upper
91	100		
126	26.2	13.3	39.8



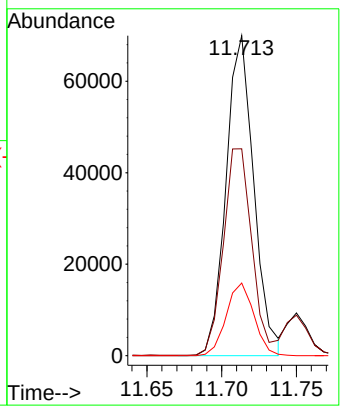


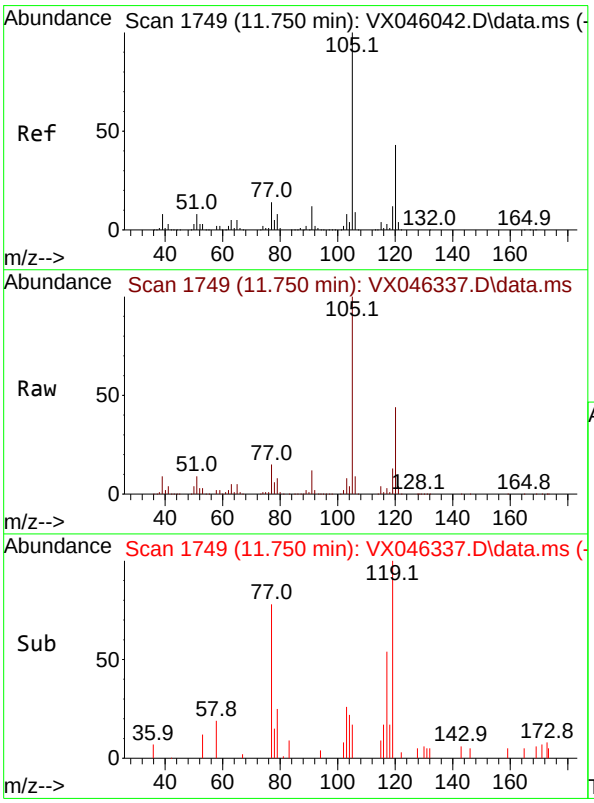
#83
tert-Butylbenzene
Concen: 21.367 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBSD01

Tgt Ion:119 Resp: 90311

Ion	Ratio	Lower	Upper
119	100		
91	65.7	32.9	98.7
134	22.6	11.4	34.1

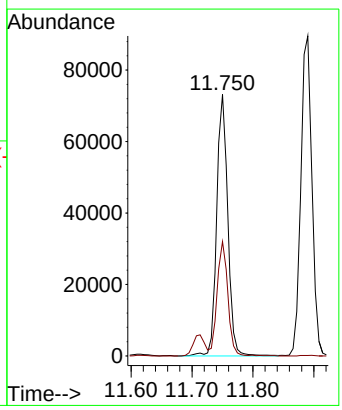


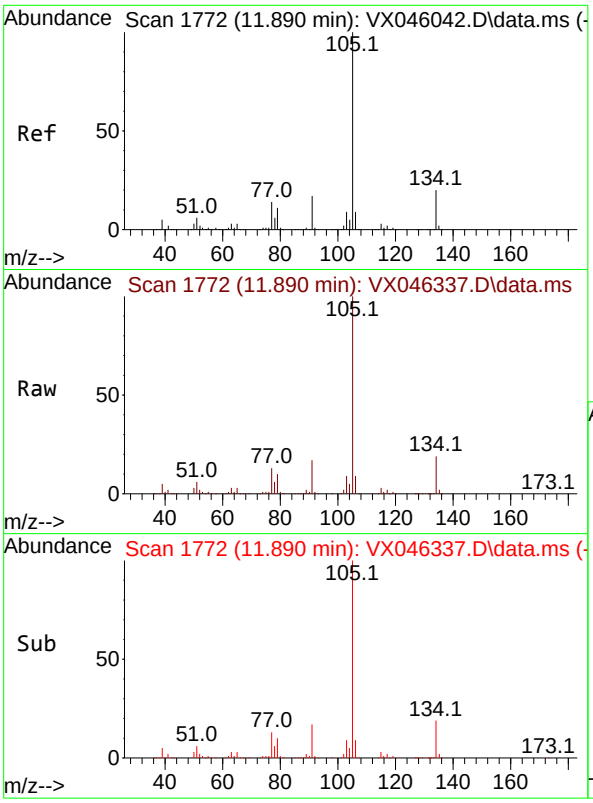


#84
1,2,4-Trimethylbenzene
Concen: 21.726 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion:105 Resp: 92322

Ion	Ratio	Lower	Upper
105	100		
120	42.0	21.2	63.6



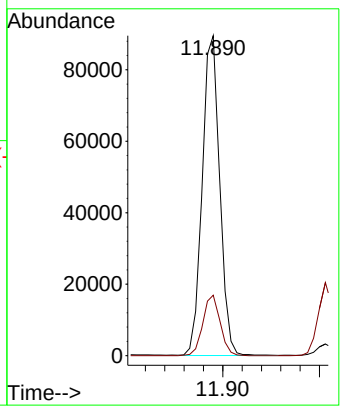


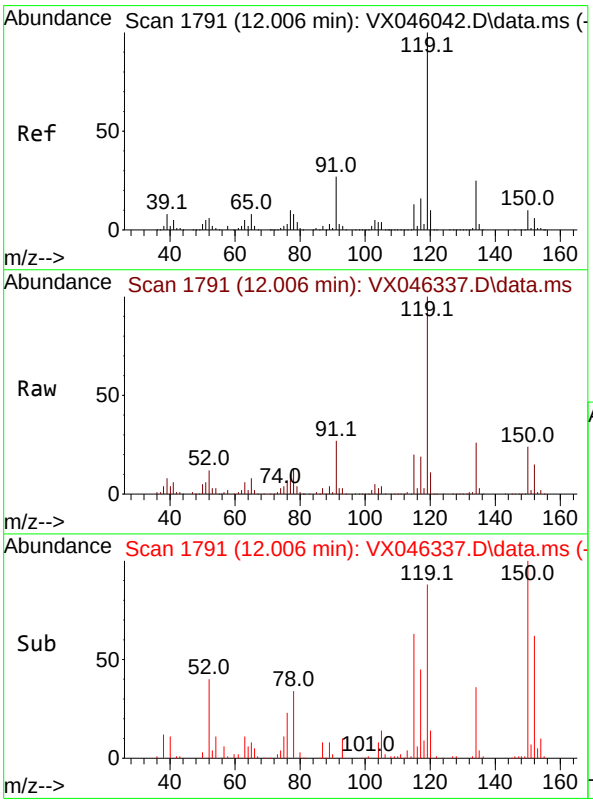
#85
sec-Butylbenzene
Concen: 21.734 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBSD01

Tgt Ion:105 Resp: 112789

Ion	Ratio	Lower	Upper
105	100		
134	18.7	9.7	29.1

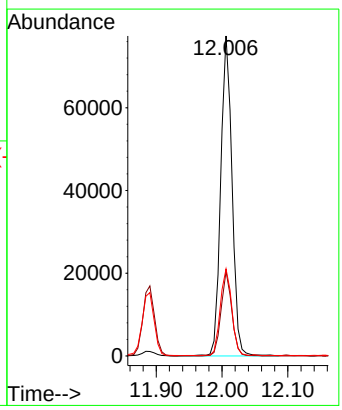


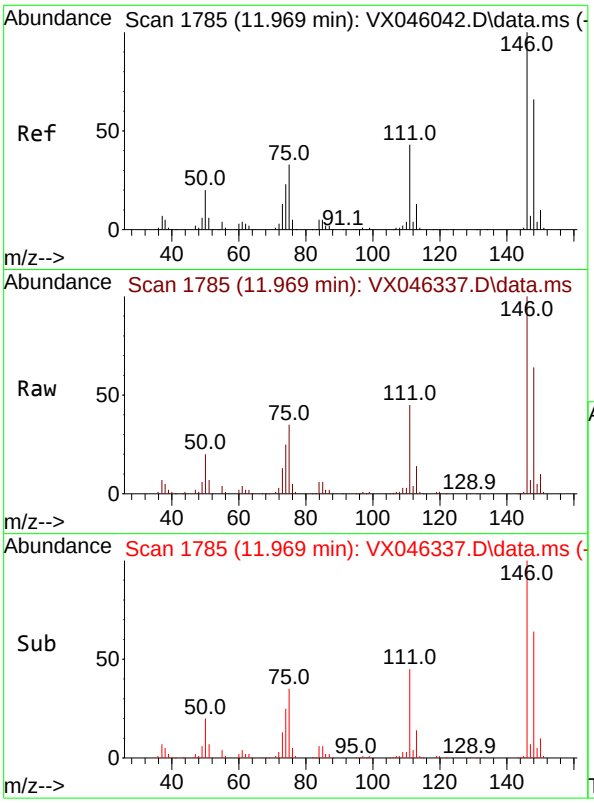


#86
p-Isopropyltoluene
Concen: 21.620 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion:119 Resp: 92615

Ion	Ratio	Lower	Upper
119	100		
134	25.1	12.5	37.5
91	27.4	13.8	41.4



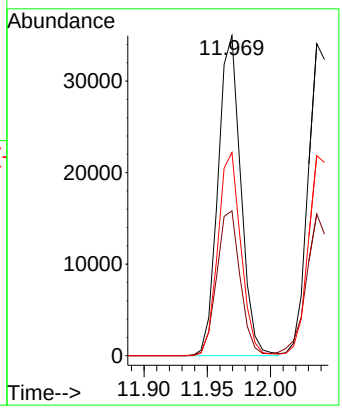


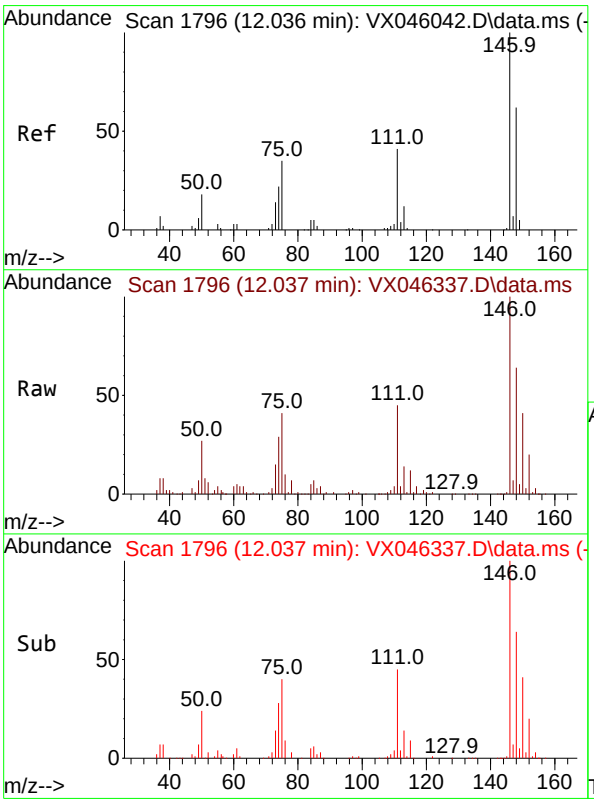
#87
1,3-Dichlorobenzene
Concen: 20.598 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBSD01

Tgt Ion:146 Resp: 43835

Ion	Ratio	Lower	Upper
146	100		
111	46.7	22.1	66.3
148	63.9	32.1	96.5

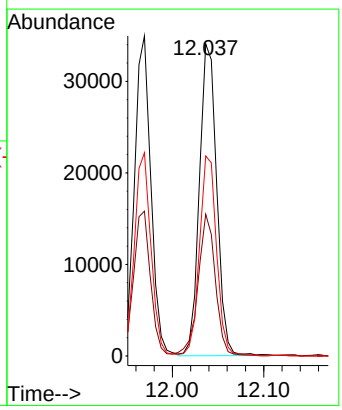


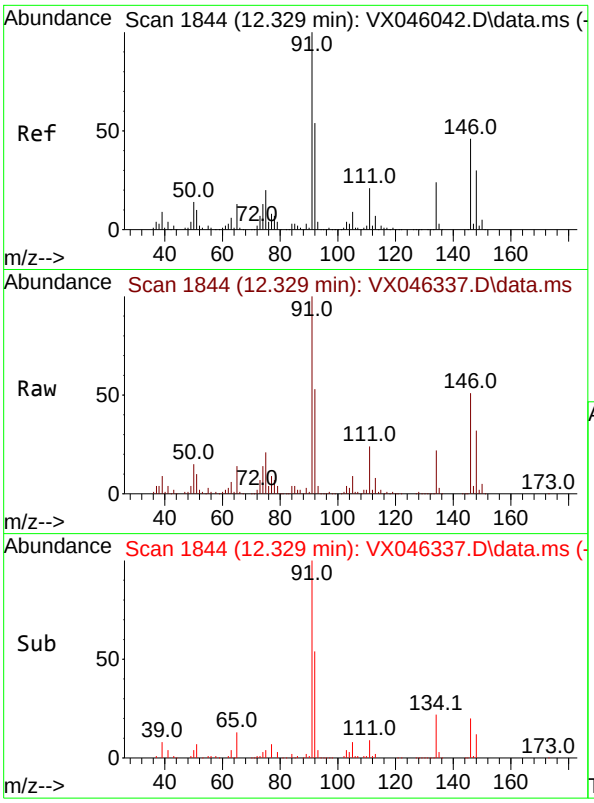


#88
1,4-Dichlorobenzene
Concen: 20.556 ug/l
RT: 12.037 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion:146 Resp: 44676

Ion	Ratio	Lower	Upper
146	100		
111	44.9	21.3	63.9
148	63.6	31.9	95.5



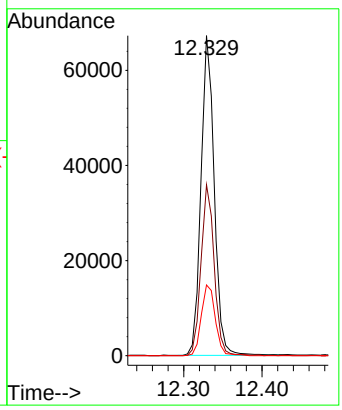


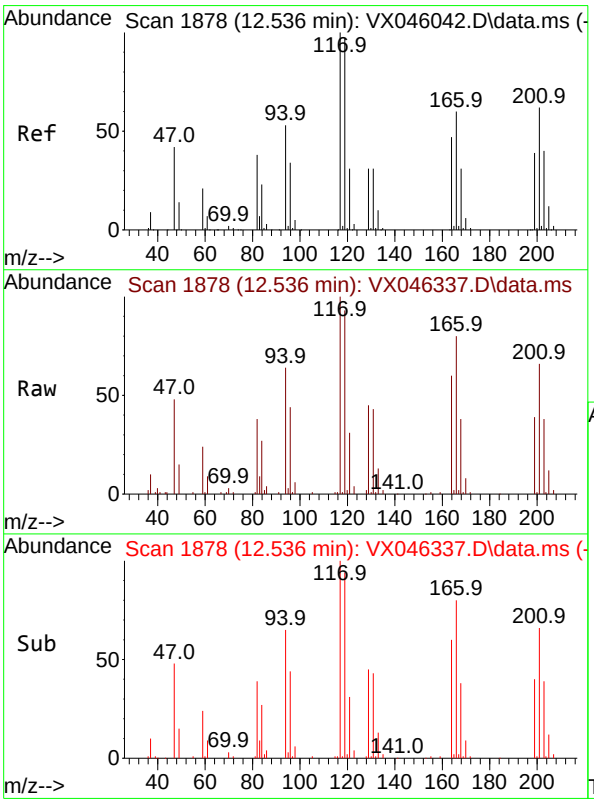
#89
n-Butylbenzene
Concen: 20.975 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBSD01

Tgt Ion: 91 Resp: 78814

Ion	Ratio	Lower	Upper
91	100		
92	53.5	26.9	80.7
134	23.4	11.8	35.3

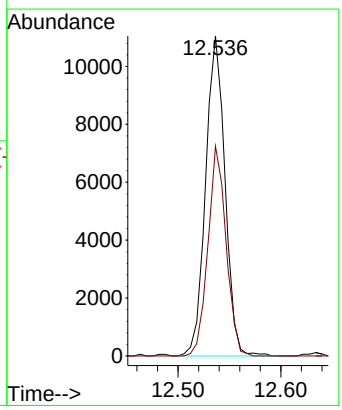


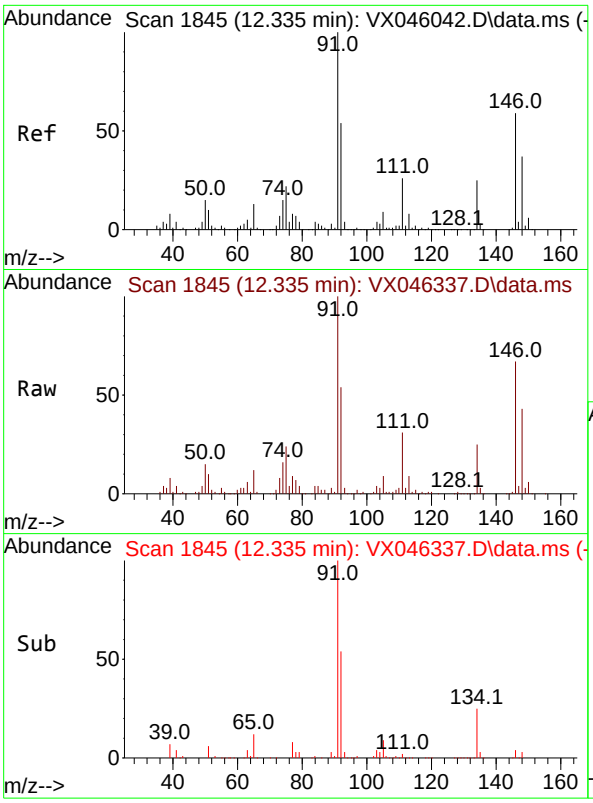


#90
Hexachloroethane
Concen: 19.179 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion:117 Resp: 14474

Ion	Ratio	Lower	Upper
117	100		
201	61.4	31.6	94.7



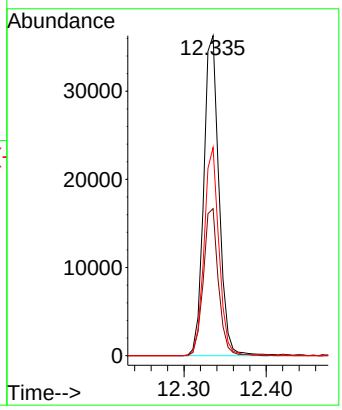


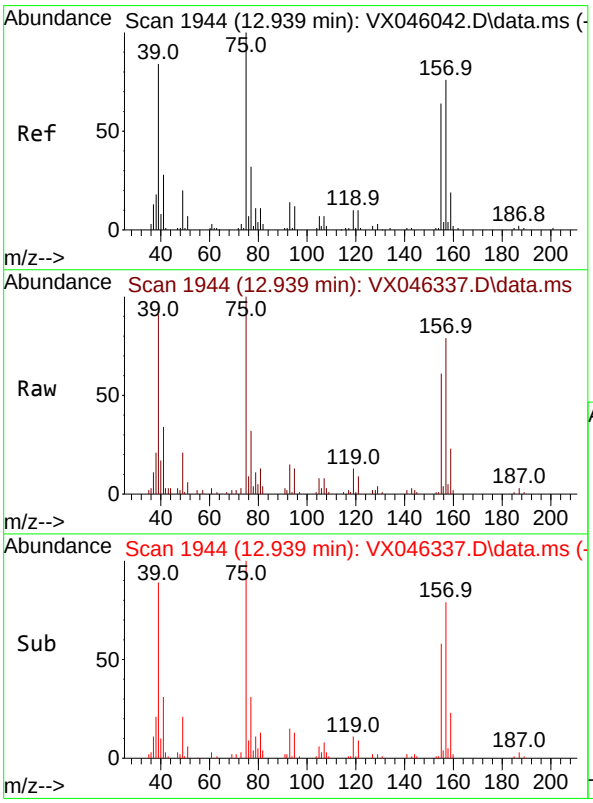
#91
1,2-Dichlorobenzene
Concen: 21.916 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBSD01

Tgt Ion:146 Resp: 46803

Ion	Ratio	Lower	Upper
146	100		
111	45.4	22.4	67.3
148	63.0	31.6	94.8

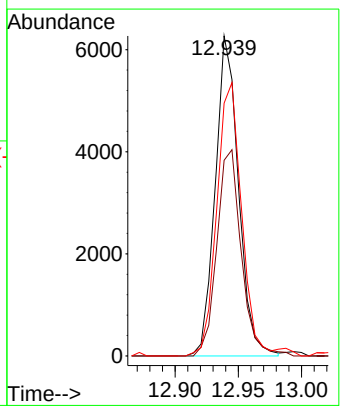


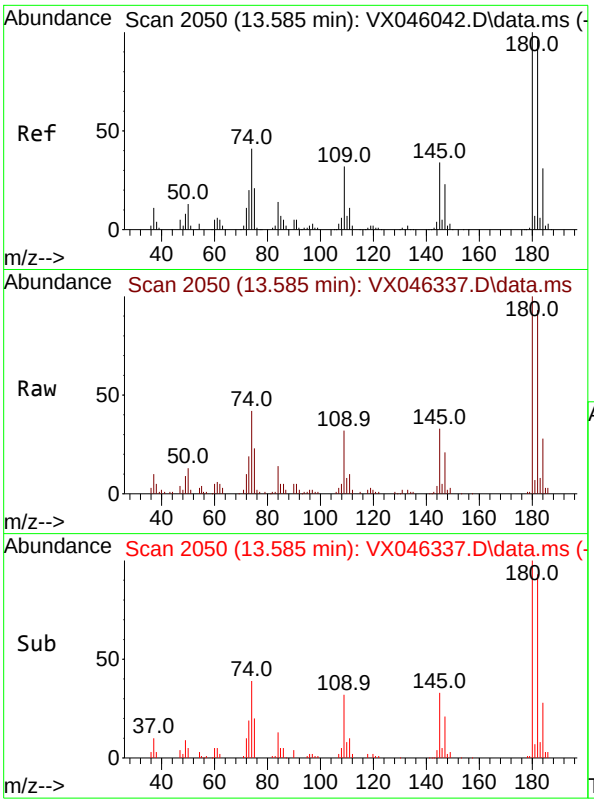


#92
1,2-Dibromo-3-Chloropropane
Concen: 20.524 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion: 75 Resp: 8003

Ion	Ratio	Lower	Upper
75	100		
155	67.7	34.9	104.8
157	91.9	43.8	131.4



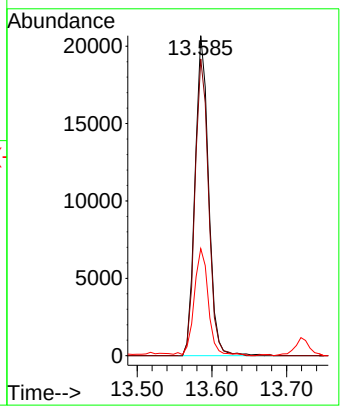


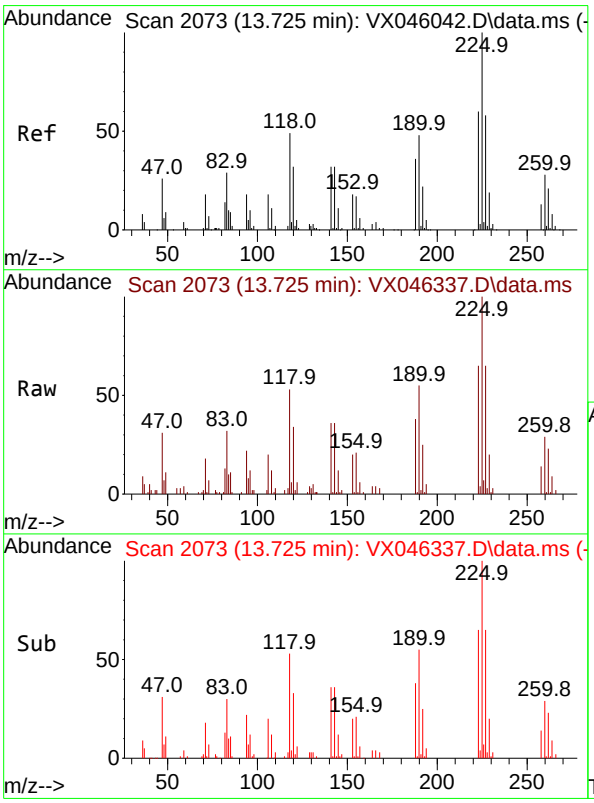
#93
1,2,4-Trichlorobenzene
Concen: 21.225 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBSD01

Tgt Ion:180 Resp: 26034

Ion	Ratio	Lower	Upper
180	100		
182	93.1	47.9	143.8
145	35.1	17.1	51.2

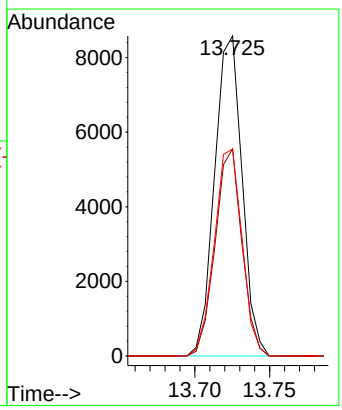


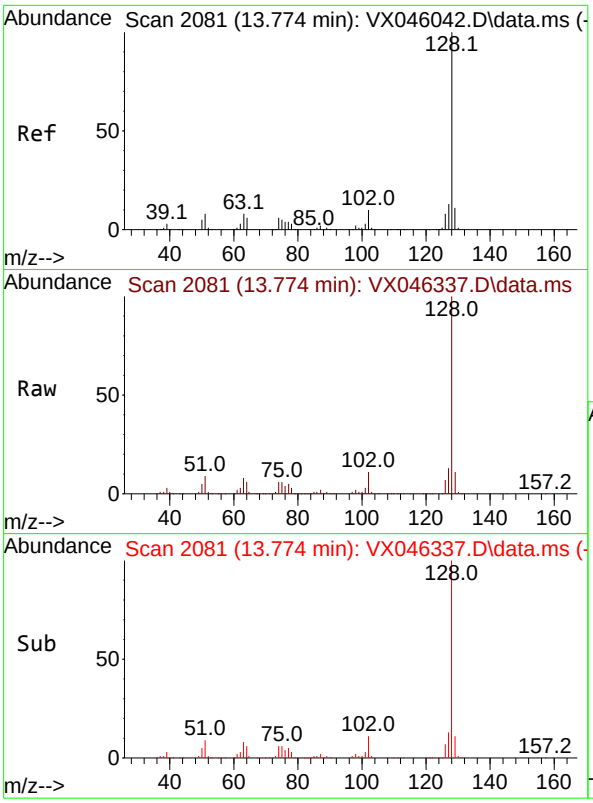


#94
Hexachlorobutadiene
Concen: 20.455 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion:225 Resp: 10958

Ion	Ratio	Lower	Upper
225	100		
223	63.0	30.8	92.4
227	65.3	30.9	92.7



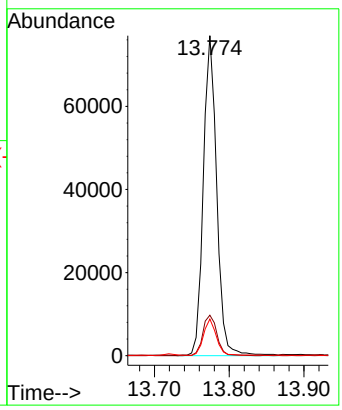


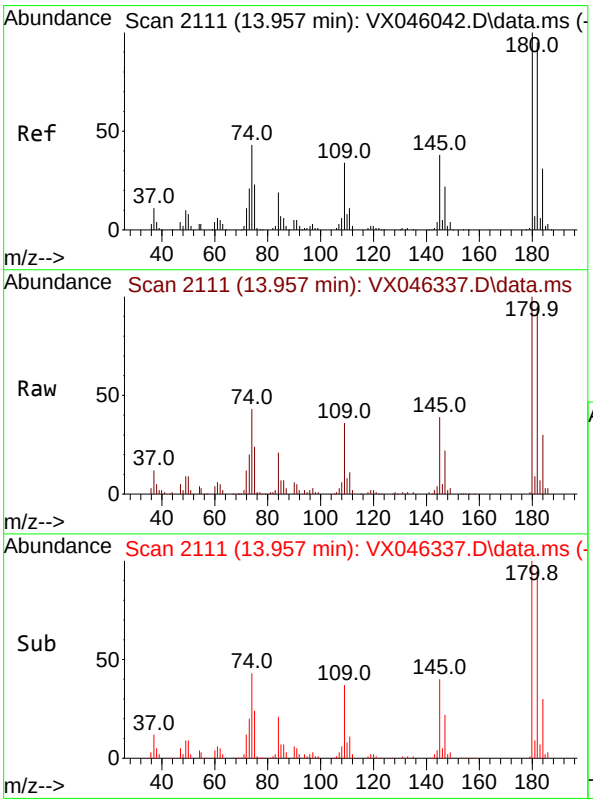
#95
Naphthalene
Concen: 21.296 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Instrument :
MSVOA_X
ClientSampleId :
VX0523WBSD01

Tgt Ion:128 Resp: 95806

Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.4	15.6
129	10.7	8.6	13.0

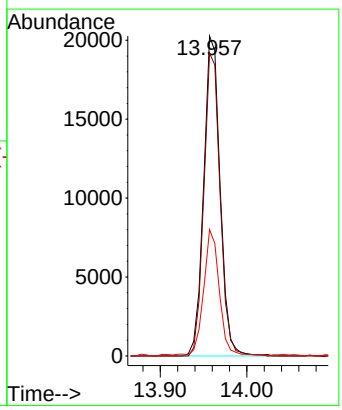




#96
1,2,3-Trichlorobenzene
Concen: 21.171 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX046337.D
Acq: 23 May 2025 12:10

Tgt Ion:180 Resp: 26794

Ion	Ratio	Lower	Upper
180	100		
182	93.3	47.8	143.3
145	38.0	18.1	54.3



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046357.D
Acq On : 23 May 2025 19:55
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: May 23 23:08:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	76901	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	133895	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	119793	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	57270	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	76303	53.222	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 106.440%			
35) Dibromofluoromethane	5.379	113	52529	54.480	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 108.960%			
50) Toluene-d8	8.647	98	174887	52.406	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 104.820%			
62) 4-Bromofluorobenzene	11.079	95	68500	53.512	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 107.020%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	65162	55.362	ug/l	99
3) Chloromethane	1.301	50	63674	55.785	ug/l	97
4) Vinyl Chloride	1.374	62	57094	53.745	ug/l	96
5) Bromomethane	1.599	94	25945	52.657	ug/l	96
6) Chloroethane	1.672	64	32902	58.018	ug/l	96
7) Trichlorofluoromethane	1.880	101	90174	57.436	ug/l	99
8) Diethyl Ether	2.136	74	28974	54.212	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.319	101	55002	56.611	ug/l	99
10) Methyl Iodide	2.447	142	65612	57.072	ug/l	99
11) Tert butyl alcohol	2.971	59	55085	273.720	ug/l	100
12) 1,1-Dichloroethene	2.313	96	50511	55.394	ug/l	98
13) Acrolein	2.233	56	70211	306.348	ug/l	98
14) Allyl chloride	2.660	41	100827	57.856	ug/l	98
15) Acrylonitrile	3.062	53	173054	300.729	ug/l	99
16) Acetone	2.380	43	164548	286.251	ug/l	100
17) Carbon Disulfide	2.508	76	109883	50.829	ug/l	99
18) Methyl Acetate	2.703	43	90704	67.998	ug/l	99
19) Methyl tert-butyl Ether	3.111	73	183289	57.333	ug/l	100
20) Methylene Chloride	2.782	84	59518	54.030	ug/l	97
21) trans-1,2-Dichloroethene	3.087	96	51128	55.755	ug/l	98
22) Diisopropyl ether	3.764	45	200763	59.639	ug/l	91
23) Vinyl Acetate	3.721	43	863186	291.539	ug/l	100
24) 1,1-Dichloroethane	3.605	63	108698	57.974	ug/l	98
25) 2-Butanone	4.556	43	247090	296.078	ug/l	100
26) 2,2-Dichloropropane	4.465	77	70613	48.116	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	63500	57.522	ug/l	100
28) Bromochloromethane	4.891	49	52129	57.760	ug/l	95
29) Tetrahydrofuran	5.001	42	154512	295.465	ug/l	99
30) Chloroform	5.086	83	114469	58.573	ug/l	95
31) Cyclohexane	5.464	56	95051	55.632	ug/l	99
32) 1,1,1-Trichloroethane	5.379	97	96340	56.869	ug/l	99
36) 1,1-Dichloropropene	5.684	75	72138	55.684	ug/l	99
37) Ethyl Acetate	4.715	43	92364	57.707	ug/l	98
38) Carbon Tetrachloride	5.672	117	82234	56.496	ug/l	99
39) Methylcyclohexane	7.373	83	90301	54.143	ug/l	97
40) Benzene	6.031	78	220905	58.216	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046357.D
Acq On : 23 May 2025 19:55
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: May 23 23:08:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.916	41	54334	64.894	ug/l		100
42) 1,2-Dichloroethane	6.080	62	95945	58.585	ug/l		99
43) Isopropyl Acetate	6.336	43	144296	59.095	ug/l		99
44) Trichloroethene	7.123	130	50758	55.577	ug/l		95
45) 1,2-Dichloropropane	7.427	63	56489	59.869	ug/l		100
46) Dibromomethane	7.580	93	43094	57.908	ug/l		99
47) Bromodichloromethane	7.818	83	87255	59.530	ug/l		100
48) Methyl methacrylate	7.690	41	76552	61.388	ug/l		99
49) 1,4-Dioxane	7.659	88	27383	1156.492	ug/l		97
51) 4-Methyl-2-Pentanone	8.574	43	494800	305.280	ug/l		99
52) Toluene	8.714	92	134352	57.742	ug/l		99
53) t-1,3-Dichloropropene	8.976	75	74835	57.441	ug/l		97
54) cis-1,3-Dichloropropene	8.360	75	82245	57.117	ug/l		99
55) 1,1,2-Trichloroethane	9.147	97	55081	60.037	ug/l		98
56) Ethyl methacrylate	9.116	69	89269	61.050	ug/l		99
57) 1,3-Dichloropropane	9.305	76	95448	57.929	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.238	63	216543	290.480	ug/l		99
59) 2-Hexanone	9.427	43	368660	307.441	ug/l		99
60) Dibromochloromethane	9.519	129	60337	59.883	ug/l		99
61) 1,2-Dibromoethane	9.604	107	54964	57.641	ug/l		98
64) Tetrachloroethene	9.269	164	46807	55.224	ug/l		97
65) Chlorobenzene	10.073	112	145604	55.532	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.159	131	50957	56.915	ug/l		99
67) Ethyl Benzene	10.189	91	265477	57.440	ug/l		99
68) m/p-Xylenes	10.299	106	193557	114.503	ug/l		98
69) o-Xylene	10.640	106	94322	57.235	ug/l		97
70) Styrene	10.653	104	161327	59.760	ug/l		99
71) Bromoform	10.799	173	37155	55.274	ug/l	#	96
73) Isopropylbenzene	10.957	105	254450	57.069	ug/l		99
74) N-amyl acetate	10.841	43	127633	57.930	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.207	83	84242	53.916	ug/l		98
76) 1,2,3-Trichloropropane	11.238	75	94388	68.471	ug/l		84
77) Bromobenzene	11.195	156	57480	55.529	ug/l		99
78) n-propylbenzene	11.299	91	298001	57.482	ug/l		99
79) 2-Chlorotoluene	11.360	91	183213	54.791	ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	214369	57.551	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	22130	52.265	ug/l		98
82) 4-Chlorotoluene	11.451	91	209928	56.611	ug/l		99
83) tert-Butylbenzene	11.713	119	210698	56.156	ug/l		100
84) 1,2,4-Trimethylbenzene	11.750	105	215135	57.033	ug/l		100
85) sec-Butylbenzene	11.890	105	263013	57.092	ug/l		100
86) p-Isopropyltoluene	12.006	119	218175	57.375	ug/l		100
87) 1,3-Dichlorobenzene	11.969	146	104059	55.082	ug/l		99
88) 1,4-Dichlorobenzene	12.036	146	103178	53.479	ug/l		98
89) n-Butylbenzene	12.329	91	193146	57.905	ug/l		99
90) Hexachloroethane	12.536	117	36765	54.879	ug/l		99
91) 1,2-Dichlorobenzene	12.335	146	106177	56.008	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	19820	57.261	ug/l		97
93) 1,2,4-Trichlorobenzene	13.585	180	58756	53.962	ug/l		99
94) Hexachlorobutadiene	13.719	225	25883	54.428	ug/l		98
95) Naphthalene	13.774	128	217170	54.381	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	61179	54.454	ug/l		98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046357.D
Acq On : 23 May 2025 19:55
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: May 23 23:08:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

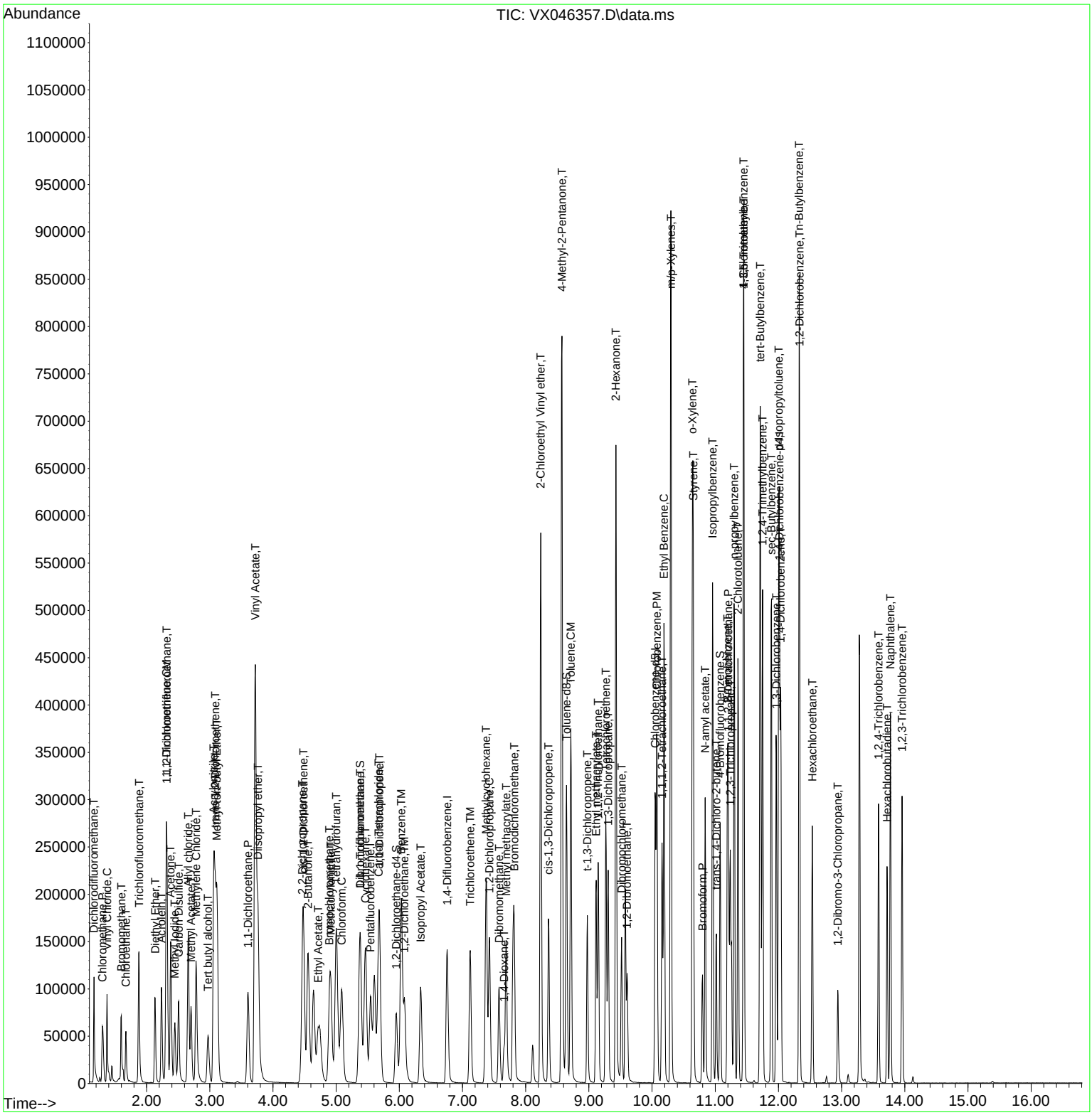
(#) = qualifier out of range (m) = manual integration (+) = signals summed

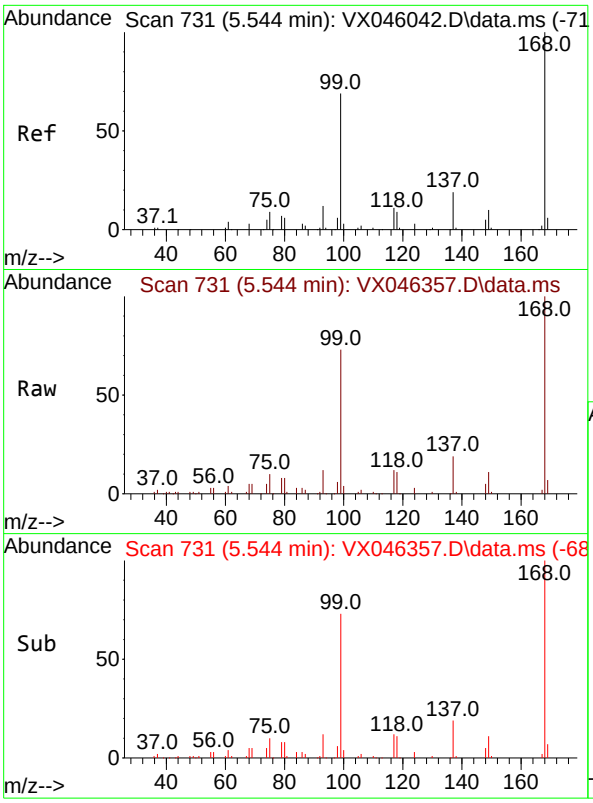
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052325\
Data File : VX046357.D
Acq On : 23 May 2025 19:55
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Quant Time: May 23 23:08:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X050525W.M
Quant Title : SW846 8260
QLast Update : Tue May 06 07:12:22 2025
Response via : Initial Calibration



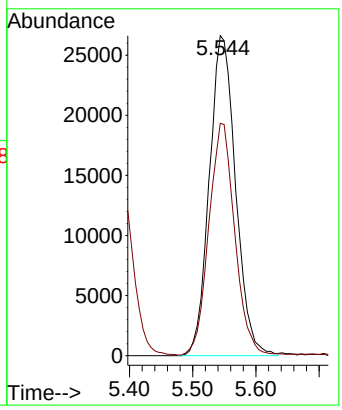


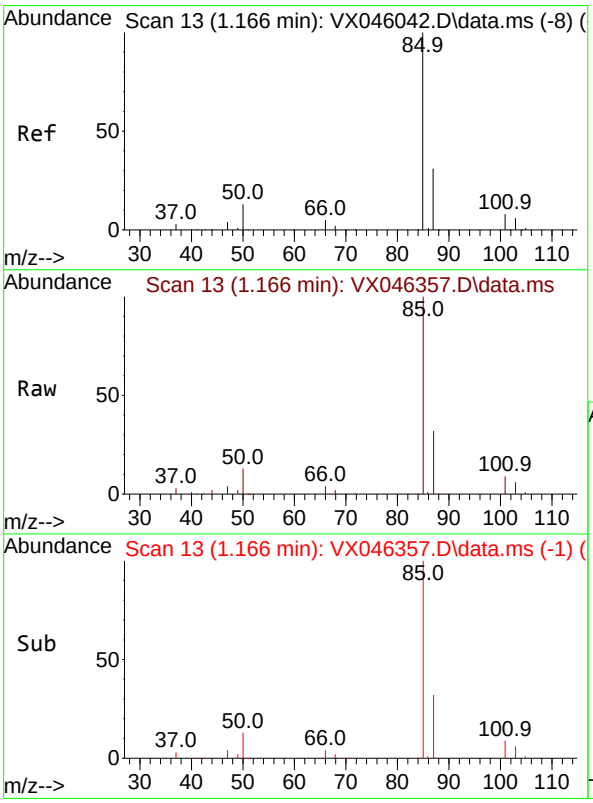
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:168 Resp: 76901

Ion	Ratio	Lower	Upper
168	100		
99	72.4	54.9	82.3

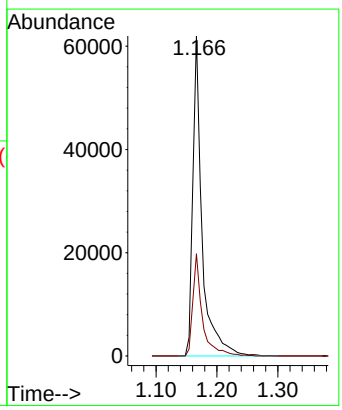


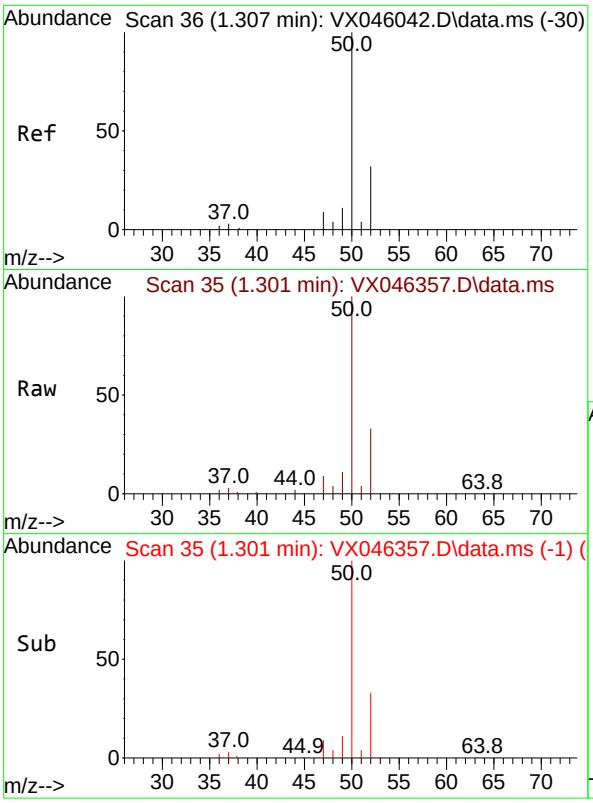


#2
Dichlorodifluoromethane
Concen: 55.362 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 85 Resp: 65162

Ion	Ratio	Lower	Upper
85	100		
87	32.0	15.7	47.1



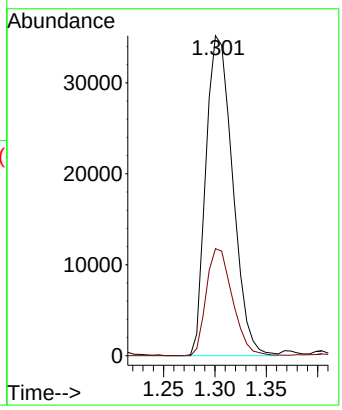


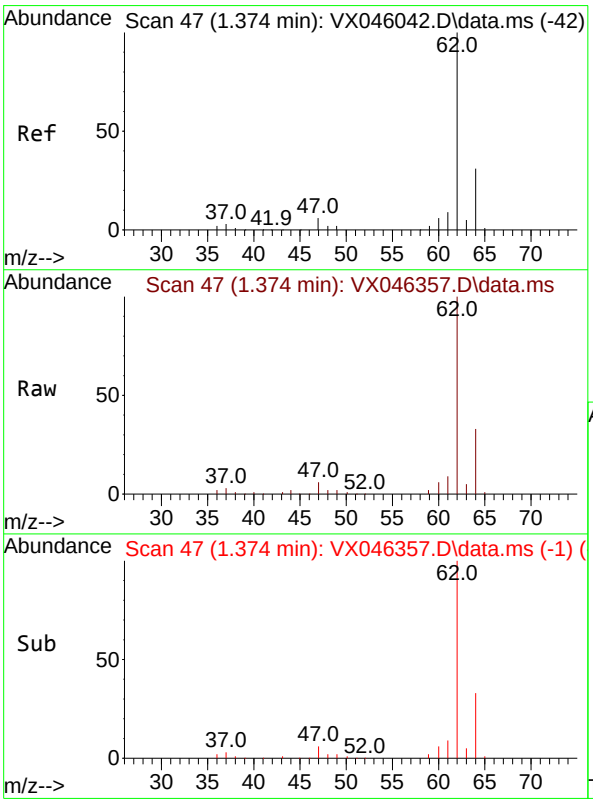
#3
Chloromethane
Concen: 55.785 ug/l
RT: 1.301 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 50 Resp: 63674

Ion	Ratio	Lower	Upper
50	100		
52	33.5	25.4	38.2

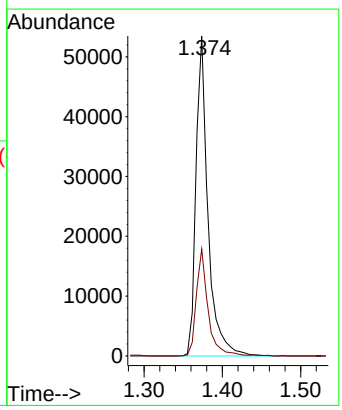


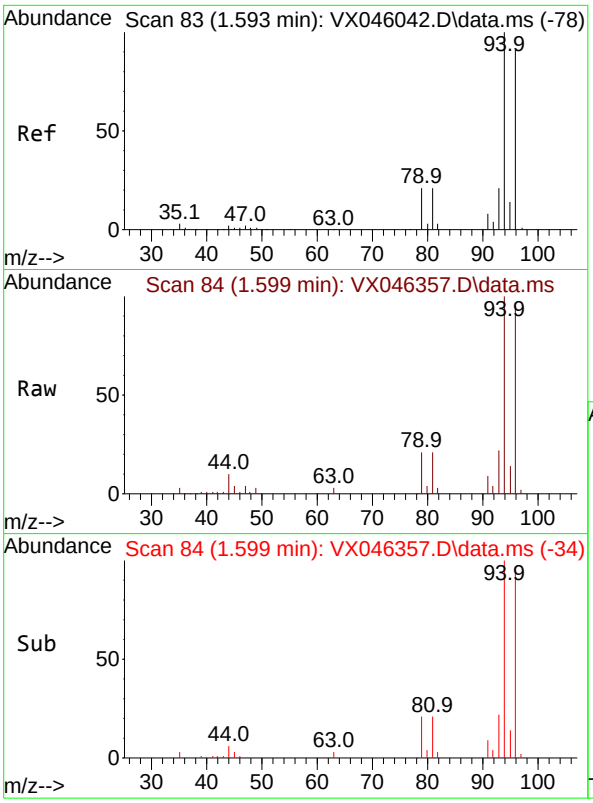


#4
Vinyl Chloride
Concen: 53.745 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 62 Resp: 57094

Ion	Ratio	Lower	Upper
62	100		
64	33.5	25.2	37.8



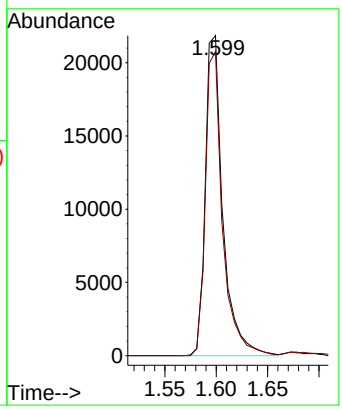


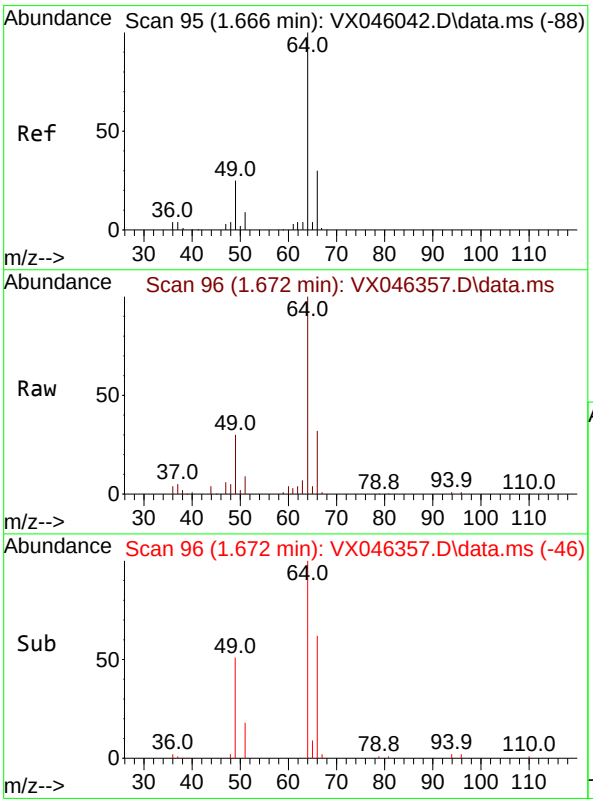
#5
Bromomethane
Concen: 52.657 ug/l
RT: 1.599 min Scan# 84
Delta R.T. 0.006 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 94 Resp: 25945

Ion	Ratio	Lower	Upper
94	100		
96	95.2	72.8	109.2

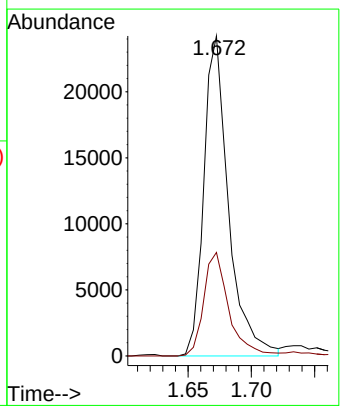


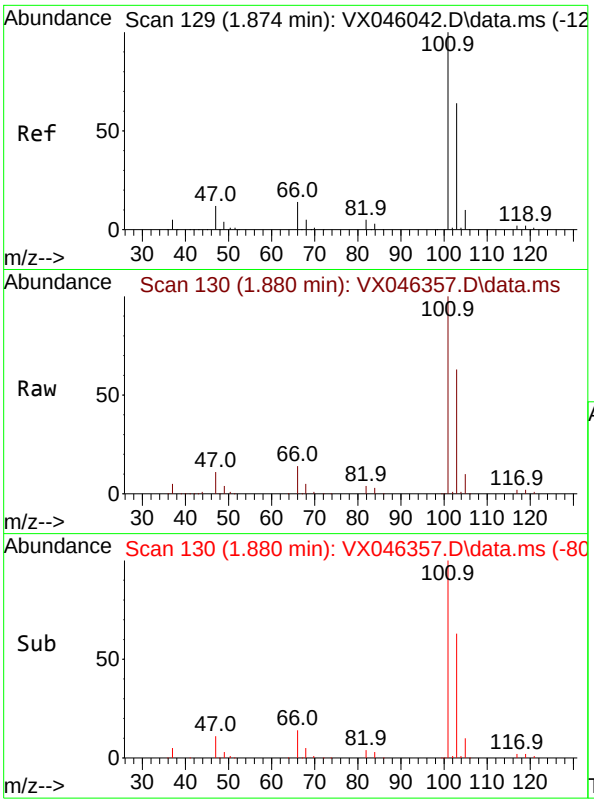


#6
Chloroethane
Concen: 58.018 ug/l
RT: 1.672 min Scan# 96
Delta R.T. 0.006 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 64 Resp: 32902

Ion	Ratio	Lower	Upper
64	100		
66	32.3	24.3	36.5



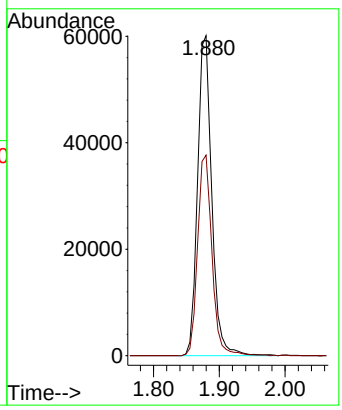


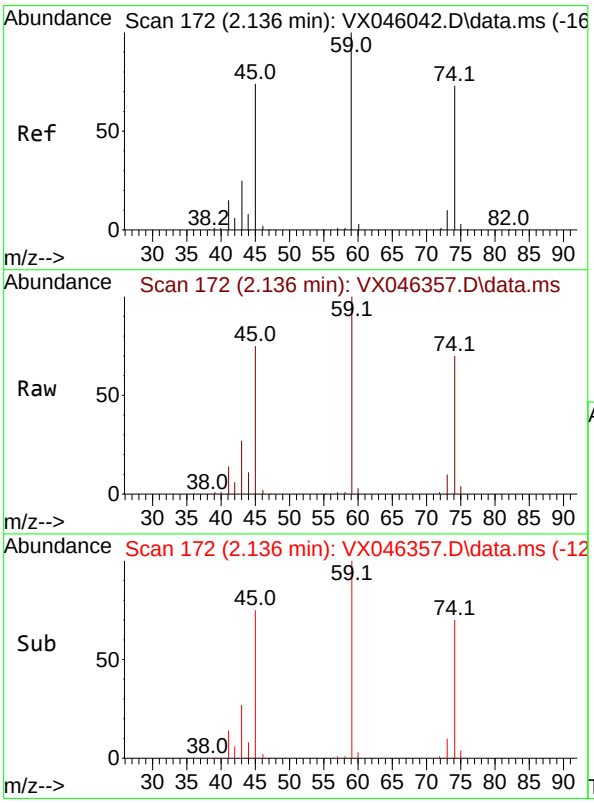
#7
Trichlorofluoromethane
Concen: 57.436 ug/l
RT: 1.880 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:101 Resp: 90174

Ion	Ratio	Lower	Upper
101	100		
103	62.7	51.0	76.4

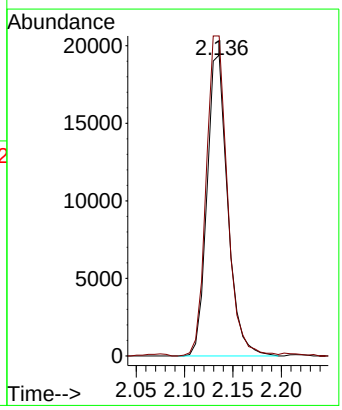


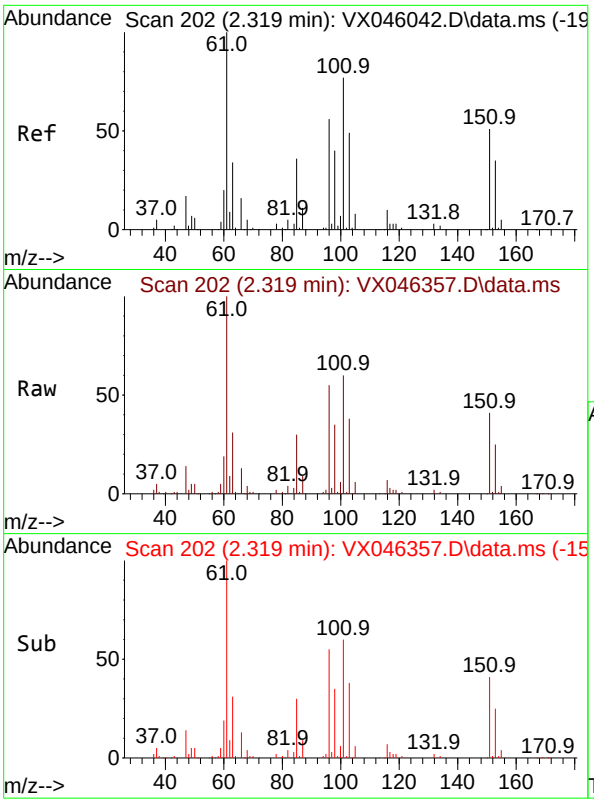


#8
Diethyl Ether
Concen: 54.212 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 74 Resp: 28974

Ion	Ratio	Lower	Upper
74	100		
45	109.1	54.9	164.8



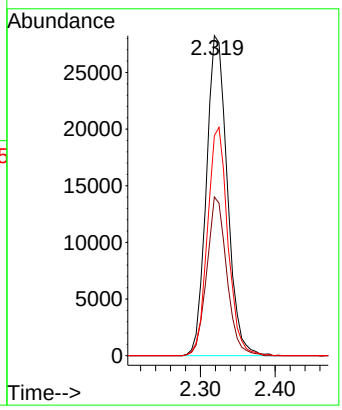


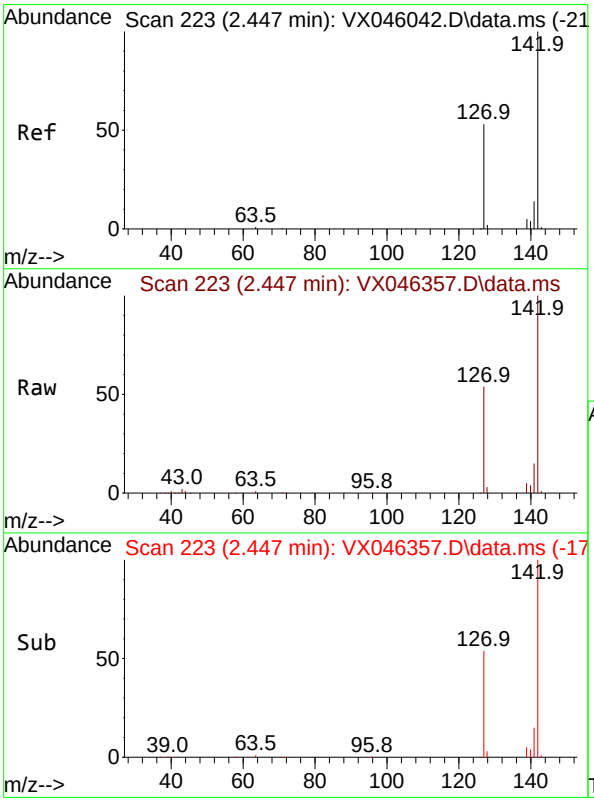
#9
1,1,2-Trichlorotrifluoroethane
Concen: 56.611 ug/l
RT: 2.319 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:101 Resp: 55002

Ion	Ratio	Lower	Upper
101	100		
85	47.4	38.6	58.0
151	69.5	55.2	82.8

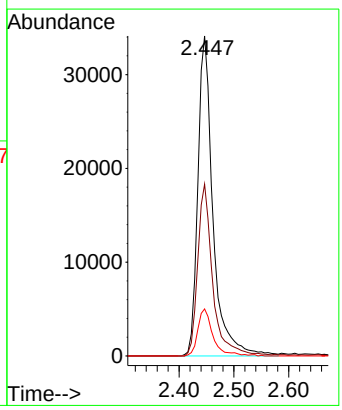


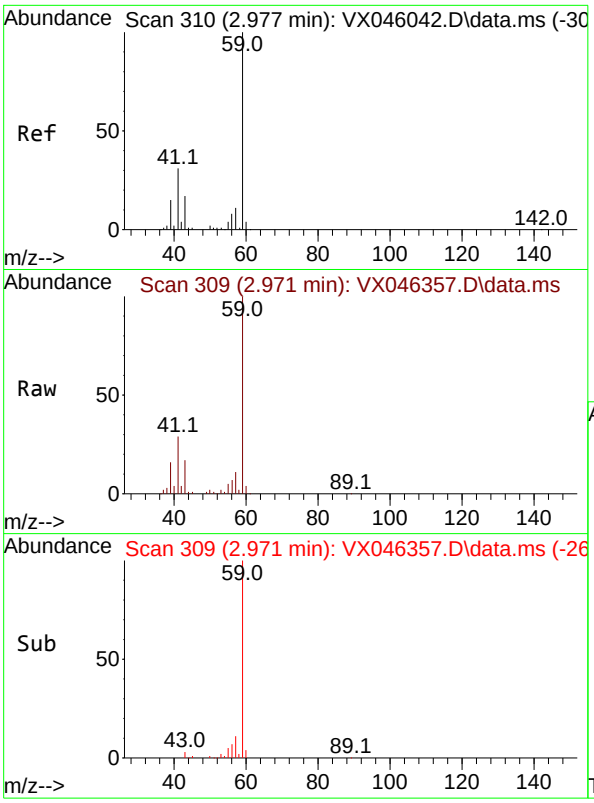


#10
Methyl Iodide
Concen: 57.072 ug/l
RT: 2.447 min Scan# 223
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion:142 Resp: 65612

Ion	Ratio	Lower	Upper
142	100		
127	53.1	41.7	62.5
141	14.8	11.5	17.3



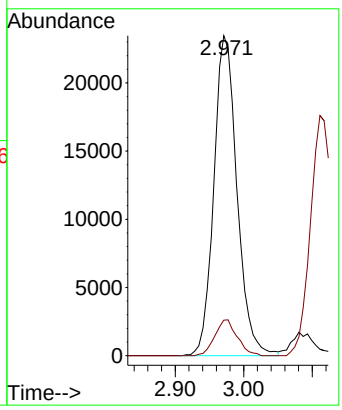


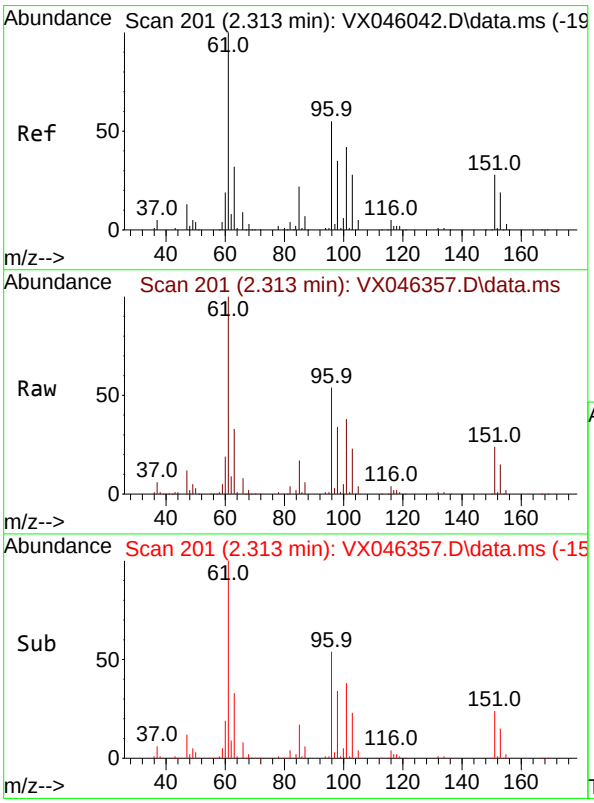
#11
Tert butyl alcohol
Concen: 273.720 ug/l
RT: 2.971 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 59 Resp: 55085

Ion	Ratio	Lower	Upper
59	100		
57	10.8	8.6	12.8

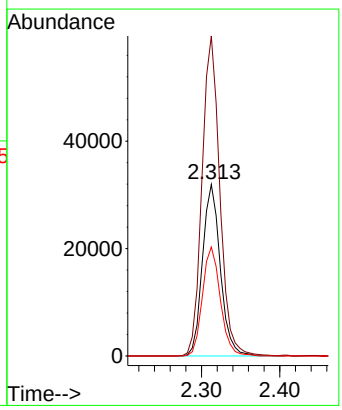


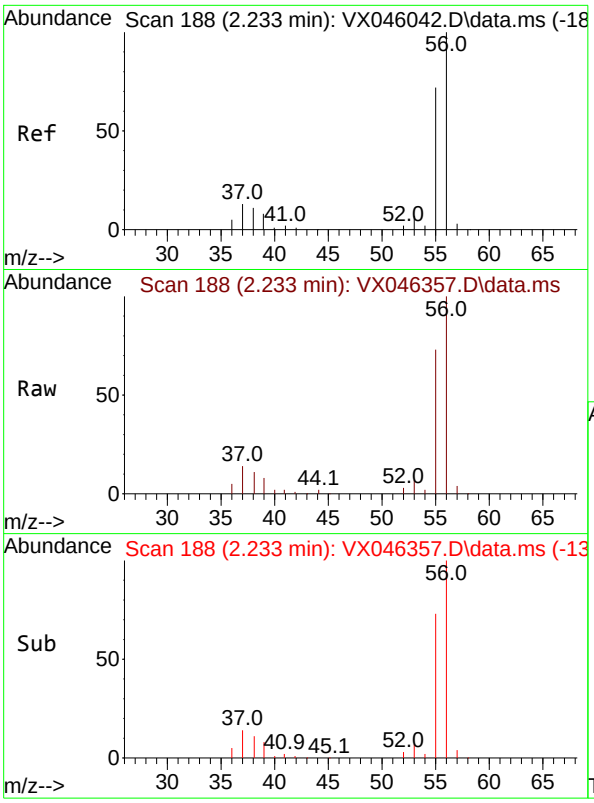


#12
1,1-Dichloroethene
Concen: 55.394 ug/l
RT: 2.313 min Scan# 201
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 96 Resp: 50511

Ion	Ratio	Lower	Upper
96	100		
61	186.5	146.2	219.2
98	63.5	51.0	76.6



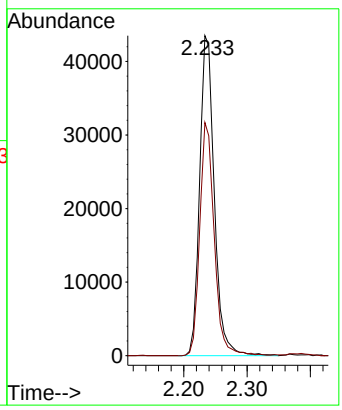


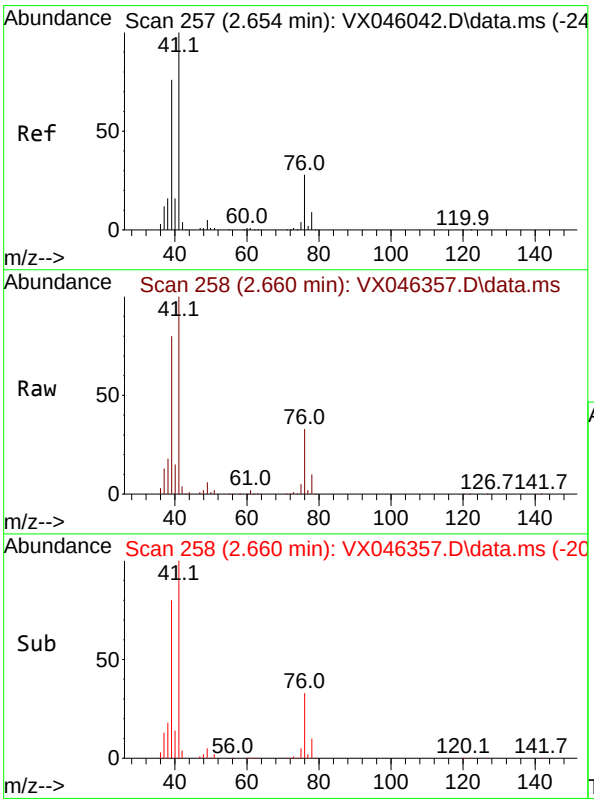
#13
Acrolein
Concen: 306.348 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 56 Resp: 70211

Ion	Ratio	Lower	Upper
56	100		
55	72.2	56.2	84.4

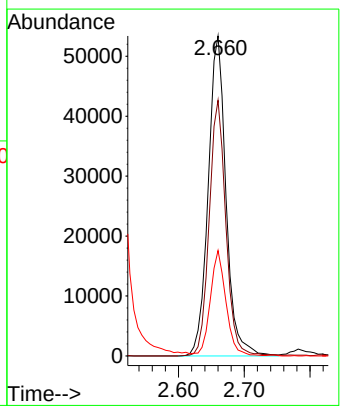


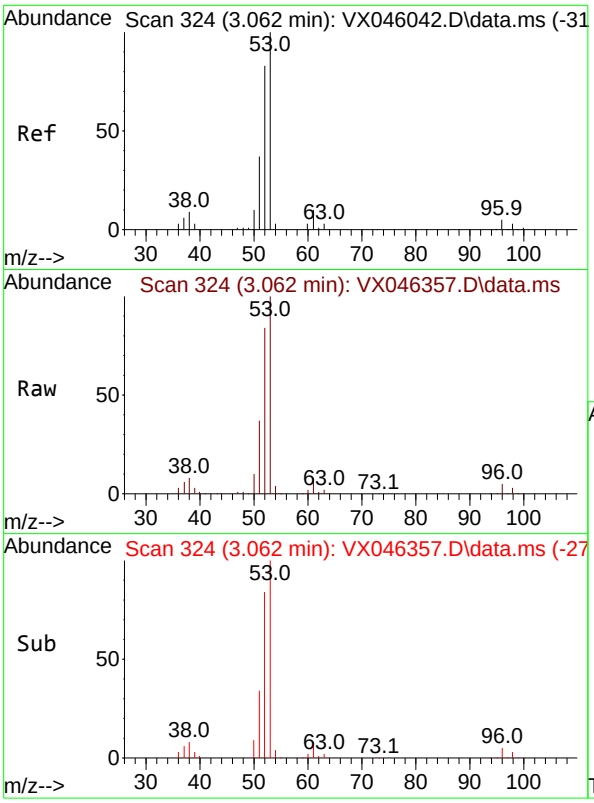


#14
Allyl chloride
Concen: 57.856 ug/l
RT: 2.660 min Scan# 258
Delta R.T. 0.006 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 41 Resp: 100827

Ion	Ratio	Lower	Upper
41	100		
39	74.8	60.6	90.8
76	28.7	24.9	37.3



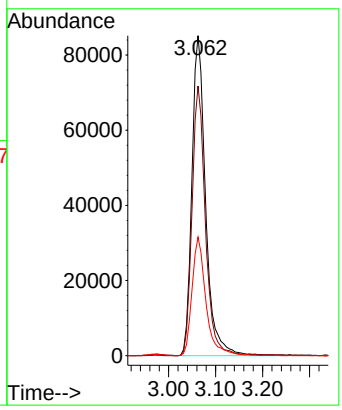


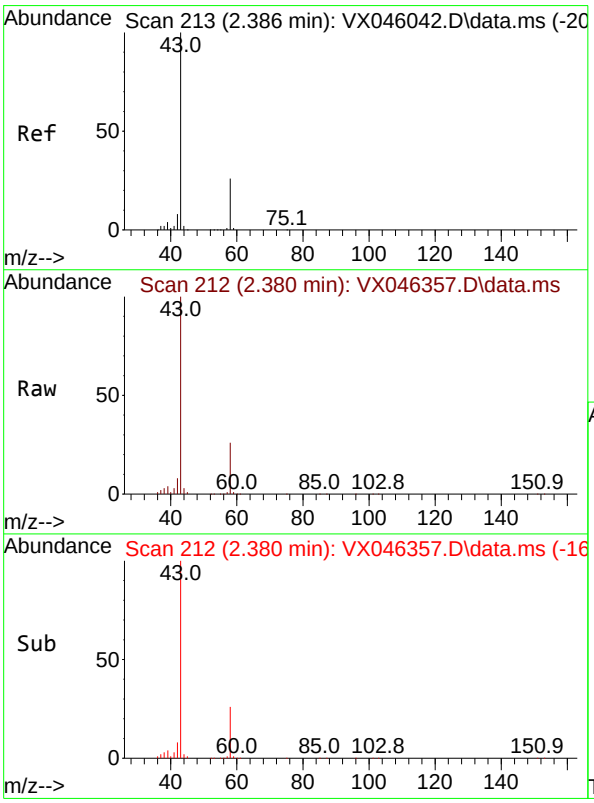
#15
Acrylonitrile
Concen: 300.729 ug/l
RT: 3.062 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 53 Resp: 173054

Ion	Ratio	Lower	Upper
53	100		
52	82.3	65.3	97.9
51	37.7	29.8	44.8

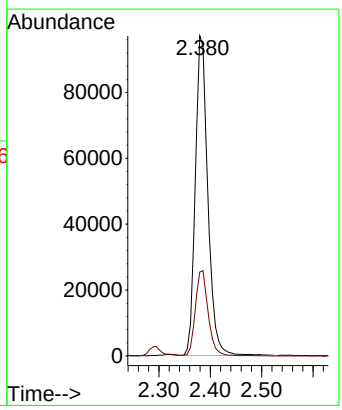


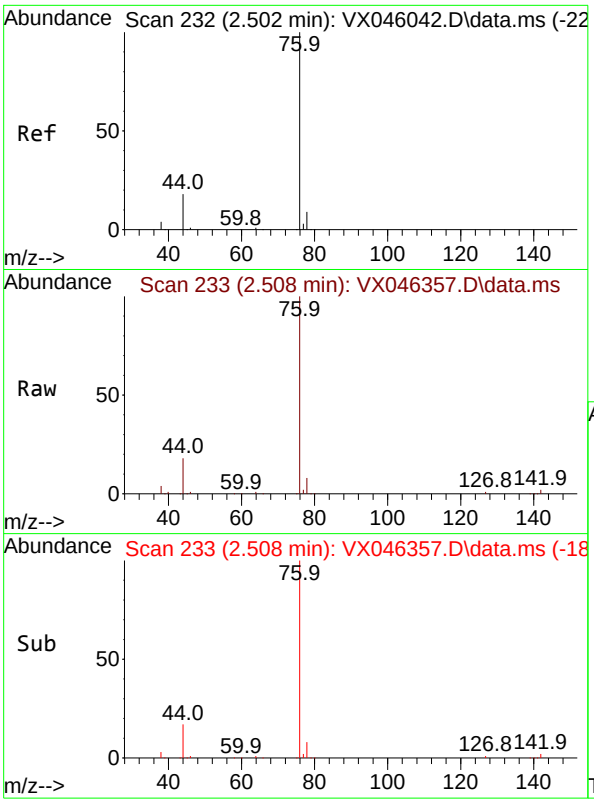


#16
Acetone
Concen: 286.251 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 43 Resp: 164548

Ion	Ratio	Lower	Upper
43	100		
58	26.3	21.2	31.8



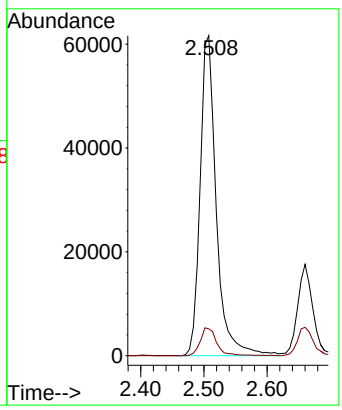


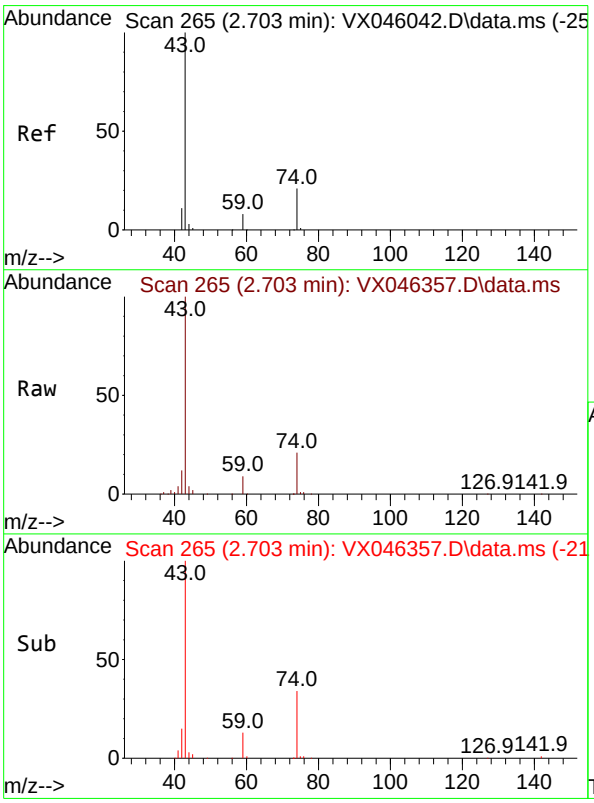
#17
Carbon Disulfide
Concen: 50.829 ug/l
RT: 2.508 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 76 Resp: 109883

Ion	Ratio	Lower	Upper
76	100		
78	8.4	7.0	10.4

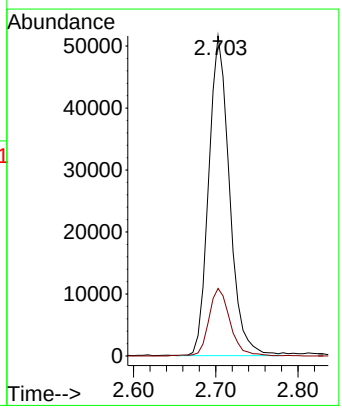


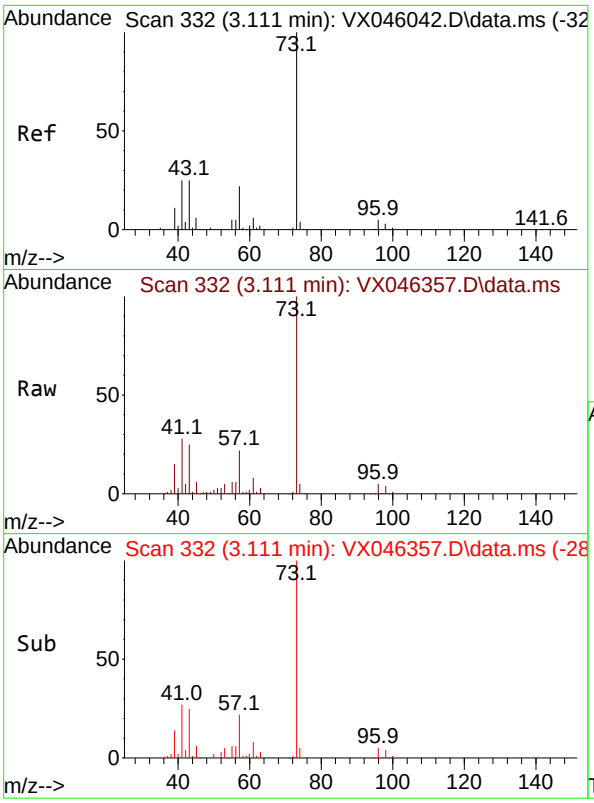


#18
Methyl Acetate
Concen: 67.998 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 43 Resp: 90704

Ion	Ratio	Lower	Upper
43	100		
74	21.6	16.7	25.1



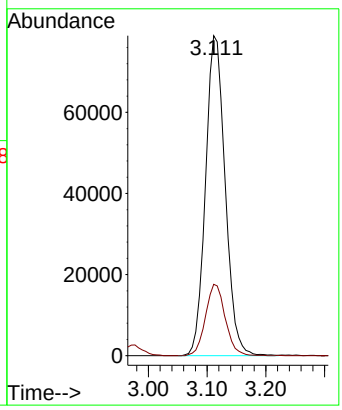


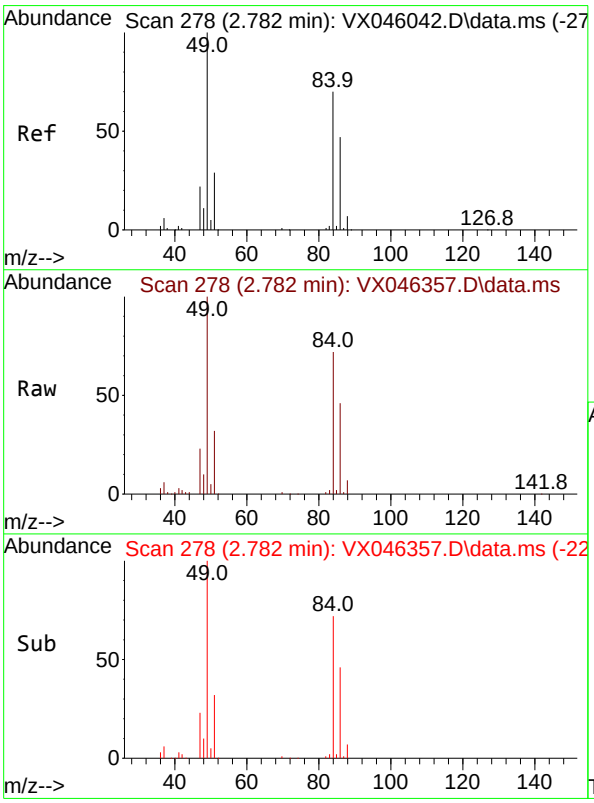
#19
Methyl tert-butyl Ether
Concen: 57.333 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 73 Resp: 183289

Ion	Ratio	Lower	Upper
73	100		
57	22.3	17.7	26.5

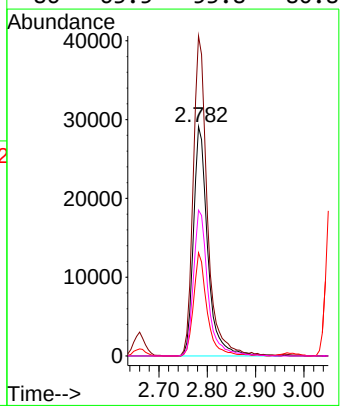


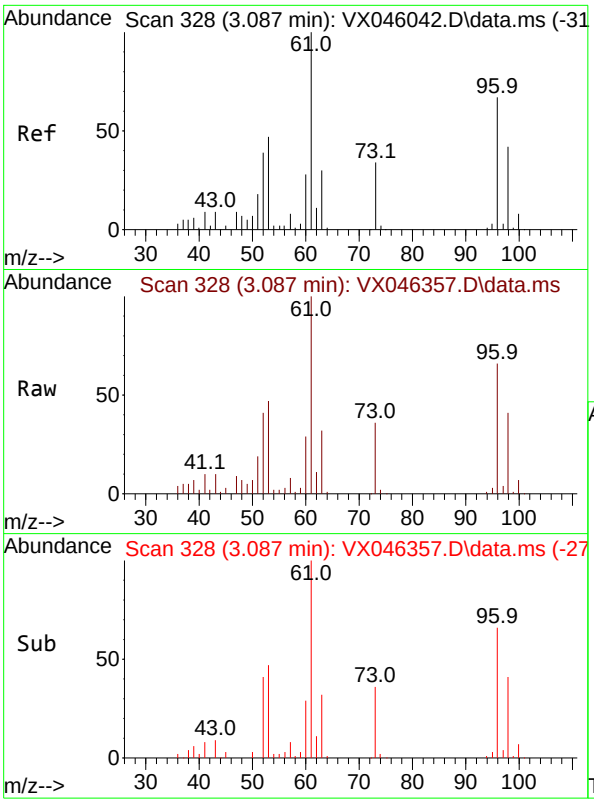


#20
Methylene Chloride
Concen: 54.030 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 84 Resp: 59518

Ion	Ratio	Lower	Upper
84	100		
49	139.5	113.9	170.9
51	45.0	33.5	50.3
86	63.5	53.8	80.8



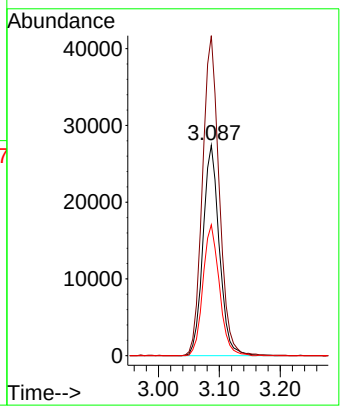


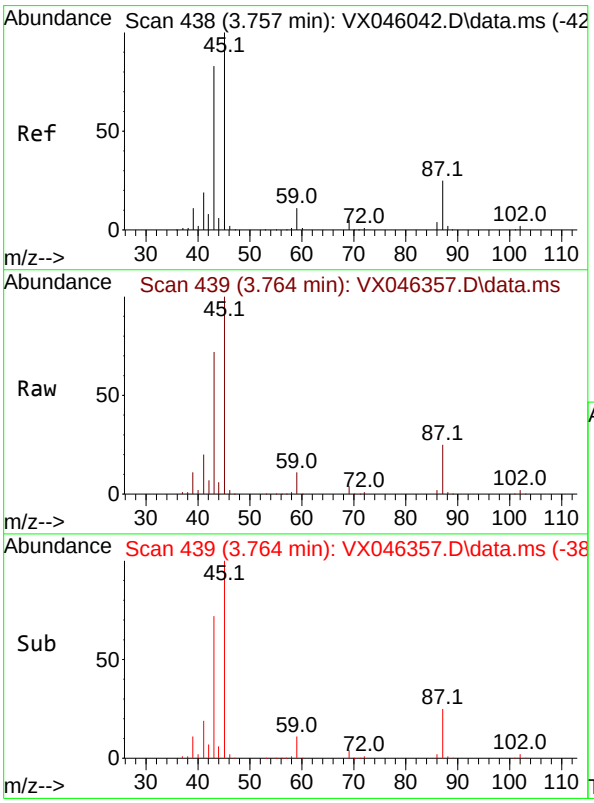
#21
trans-1,2-Dichloroethene
Concen: 55.755 ug/l
RT: 3.087 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 96 Resp: 51128

Ion	Ratio	Lower	Upper
96	100		
61	152.0	119.5	179.3
98	62.2	50.0	75.0

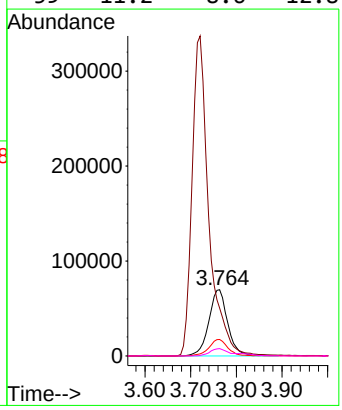


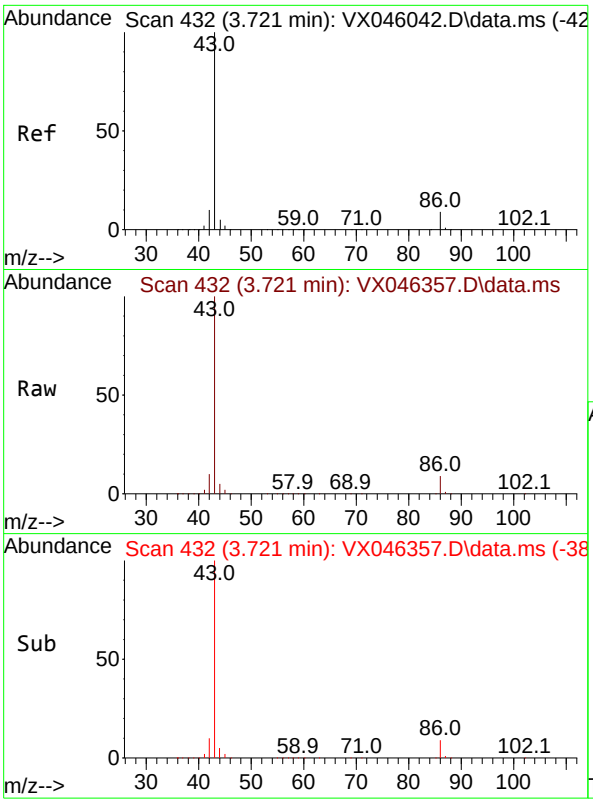


#22
Diisopropyl ether
Concen: 59.639 ug/l
RT: 3.764 min Scan# 439
Delta R.T. 0.006 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 45 Resp: 200763

Ion	Ratio	Lower	Upper
45	100		
43	71.6	66.6	100.0
87	24.8	19.8	29.6
59	11.2	8.6	12.8



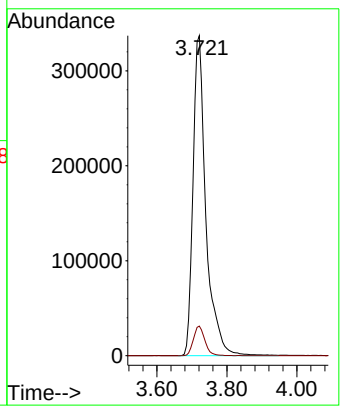


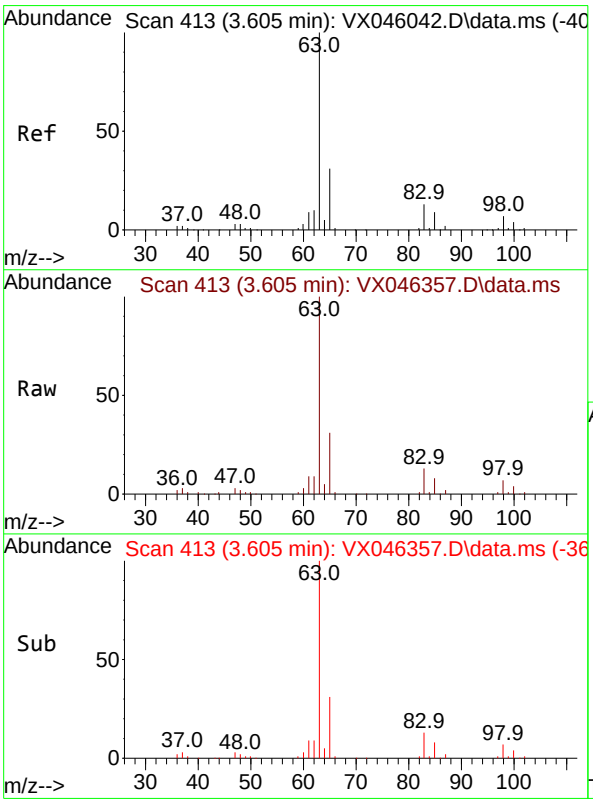
#23
Vinyl Acetate
Concen: 291.539 ug/l
RT: 3.721 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 863186

Ion	Ratio	Lower	Upper
43	100		
86	9.2	7.5	11.3

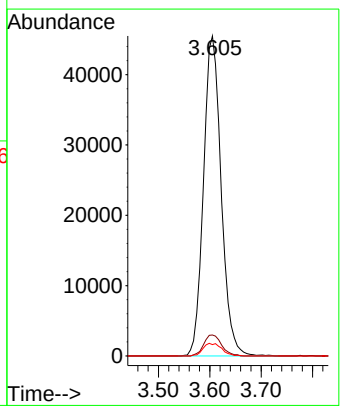


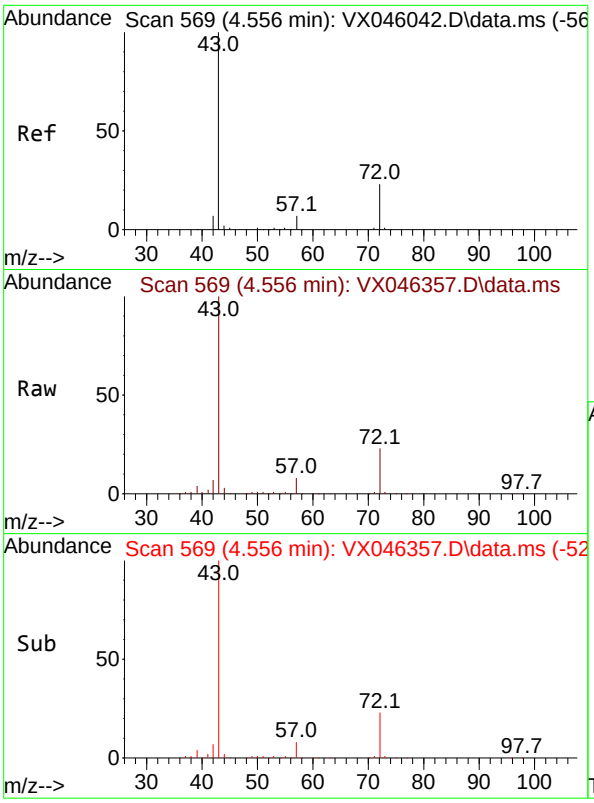


#24
1,1-Dichloroethane
Concen: 57.974 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 63 Resp: 108698

Ion	Ratio	Lower	Upper
63	100		
98	6.5	3.6	10.8
100	3.6	2.1	6.3



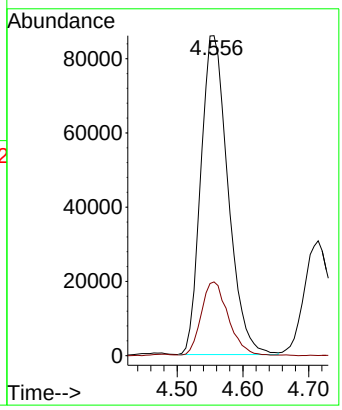


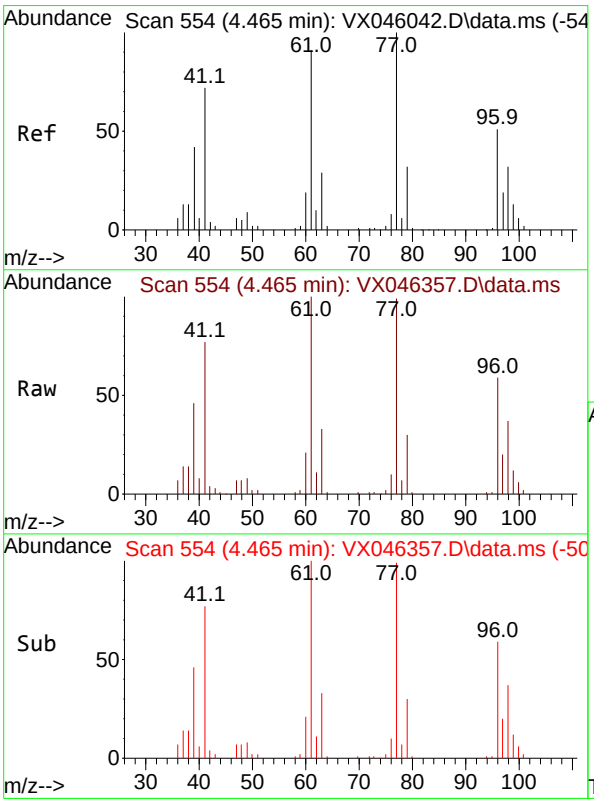
#25
2-Butanone
Concen: 296.078 ug/l
RT: 4.556 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 247090

Ion	Ratio	Lower	Upper
43	100		
72	23.0	18.4	27.6

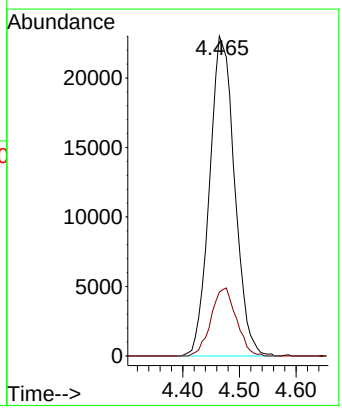


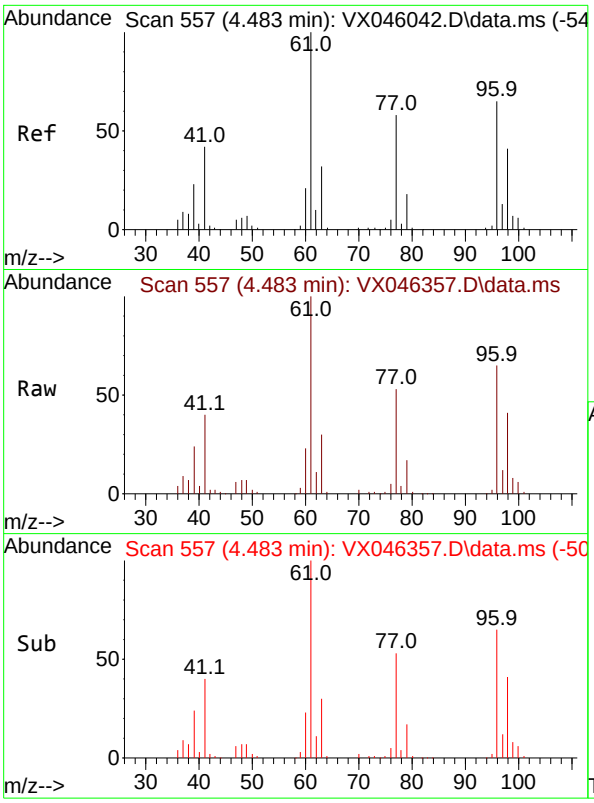


#26
2,2-Dichloropropane
Concen: 48.116 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 77 Resp: 70613

Ion	Ratio	Lower	Upper
77	100		
97	21.4	10.5	31.5



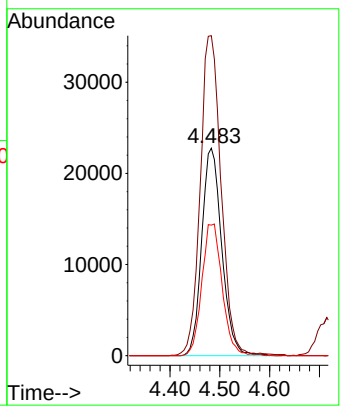


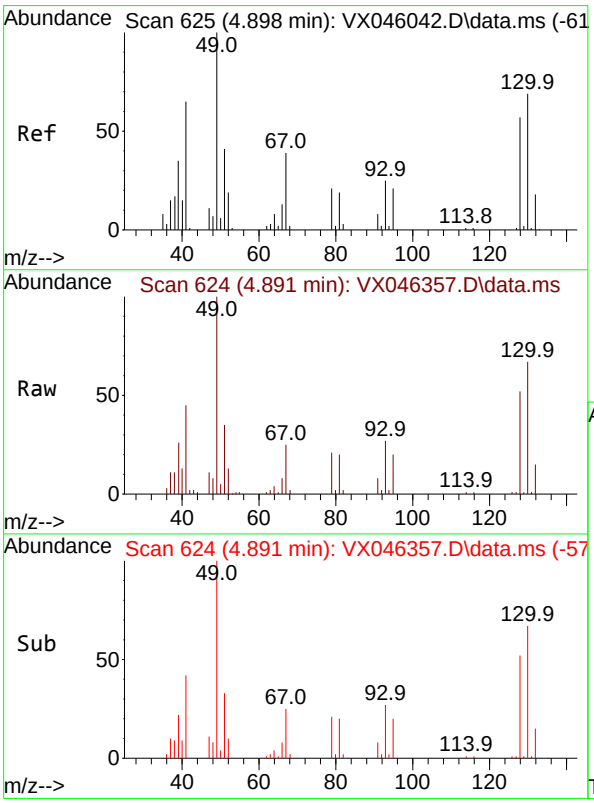
#27
cis-1,2-Dichloroethene
Concen: 57.522 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 96 Resp: 63500

Ion	Ratio	Lower	Upper
96	100		
61	161.6	0.0	322.8
98	64.6	0.0	129.0

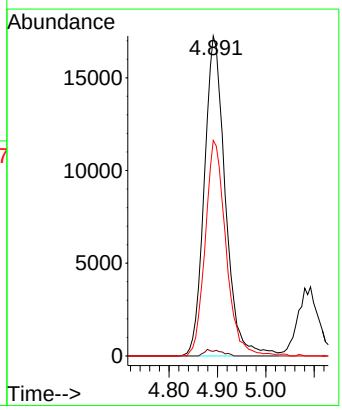


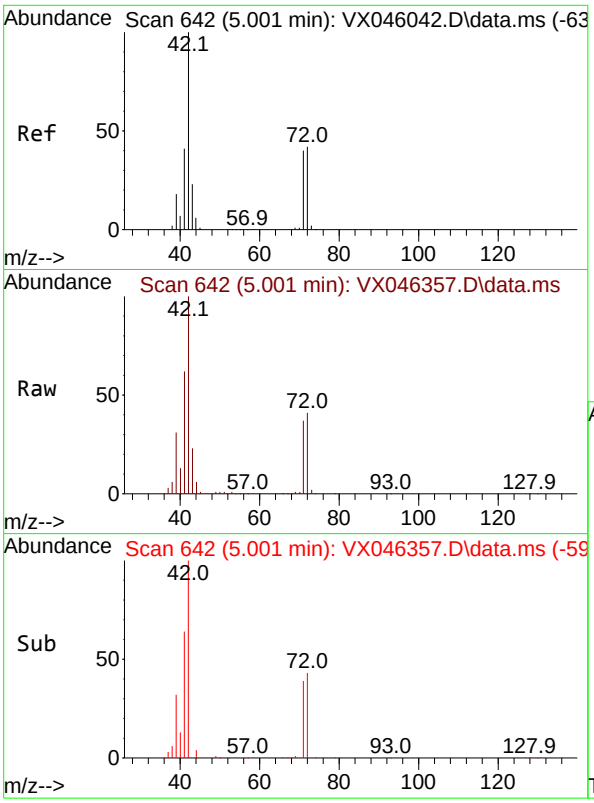


#28
Bromochloromethane
Concen: 57.760 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 49 Resp: 52129

Ion	Ratio	Lower	Upper
49	100		
129	1.6	0.0	4.0
130	66.3	56.2	84.2



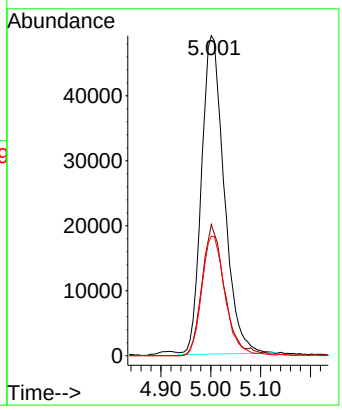


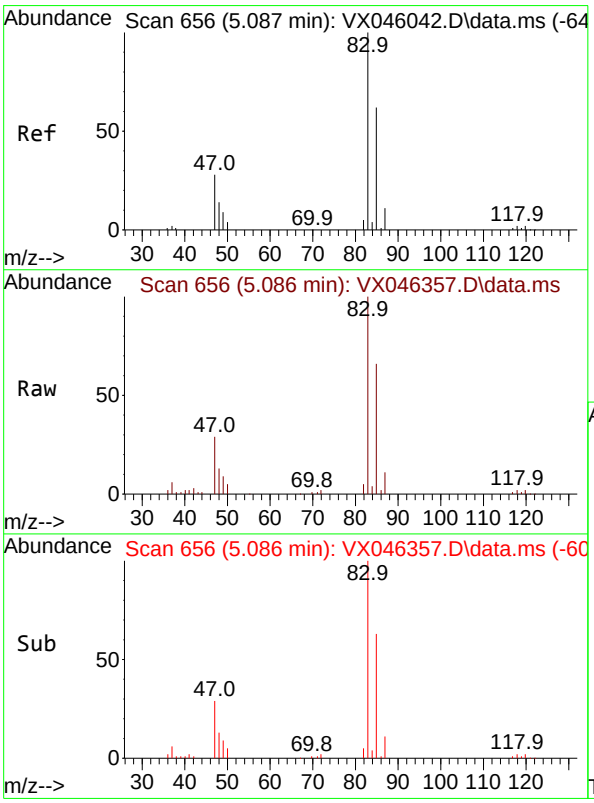
#29
Tetrahydrofuran
Concen: 295.465 ug/l
RT: 5.001 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 42 Resp: 154512

Ion	Ratio	Lower	Upper
42	100		
72	41.5	33.7	50.5
71	38.7	31.4	47.2

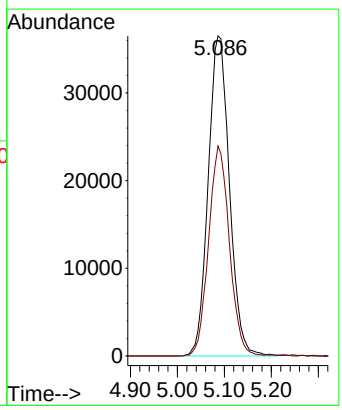


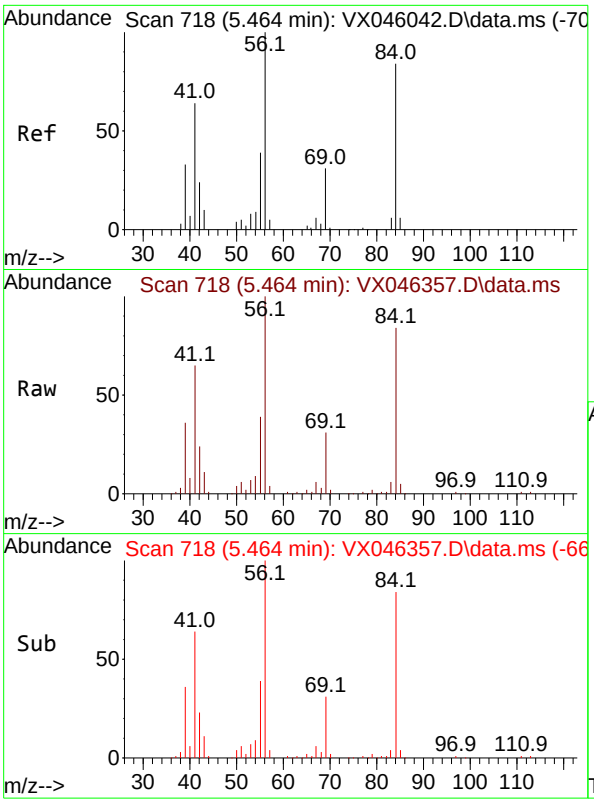


#30
Chloroform
Concen: 58.573 ug/l
RT: 5.086 min Scan# 656
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 83 Resp: 114469

Ion	Ratio	Lower	Upper
83	100		
85	65.5	49.3	73.9



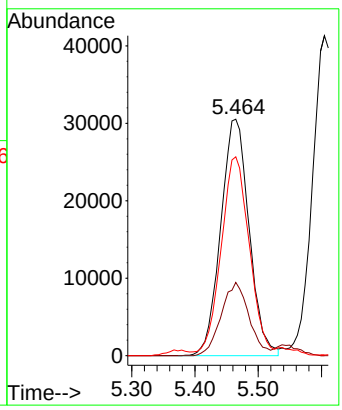


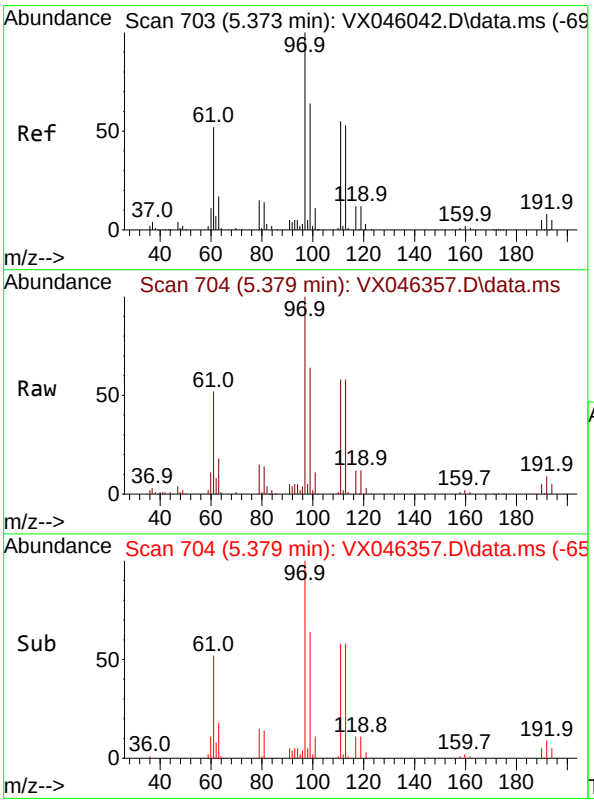
#31
Cyclohexane
Concen: 55.632 ug/l
RT: 5.464 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 56 Resp: 95051

Ion	Ratio	Lower	Upper
56	100		
69	31.0	24.4	36.6
84	82.1	66.9	100.3

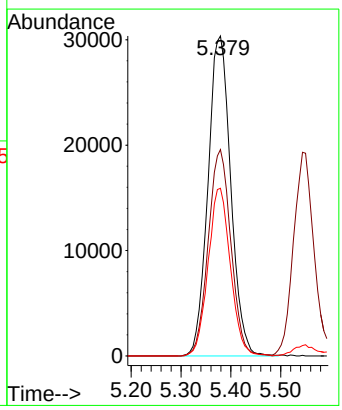


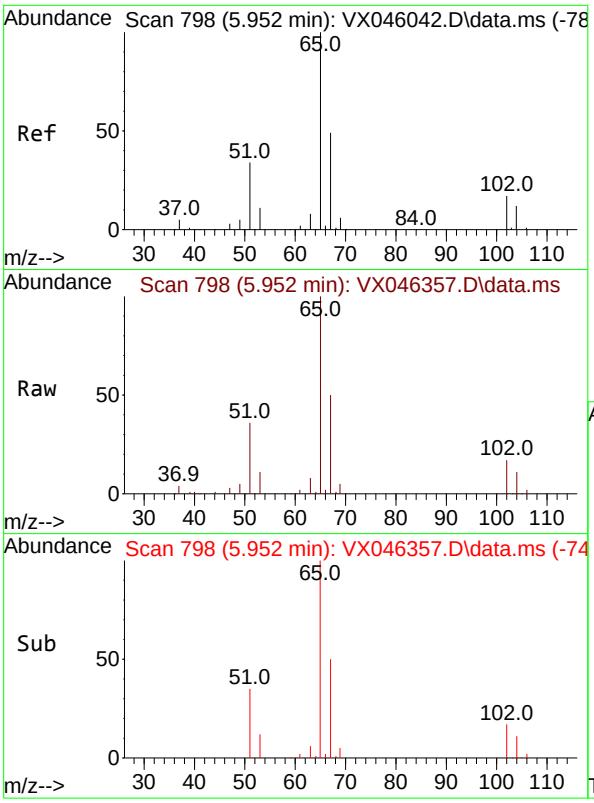


#32
1,1,1-Trichloroethane
Concen: 56.869 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.006 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 97 Resp: 96340

Ion	Ratio	Lower	Upper
97	100		
99	64.1	51.8	77.6
61	51.4	40.1	60.1



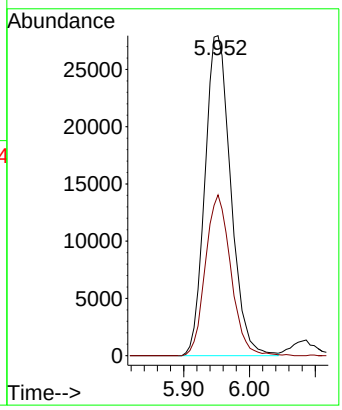


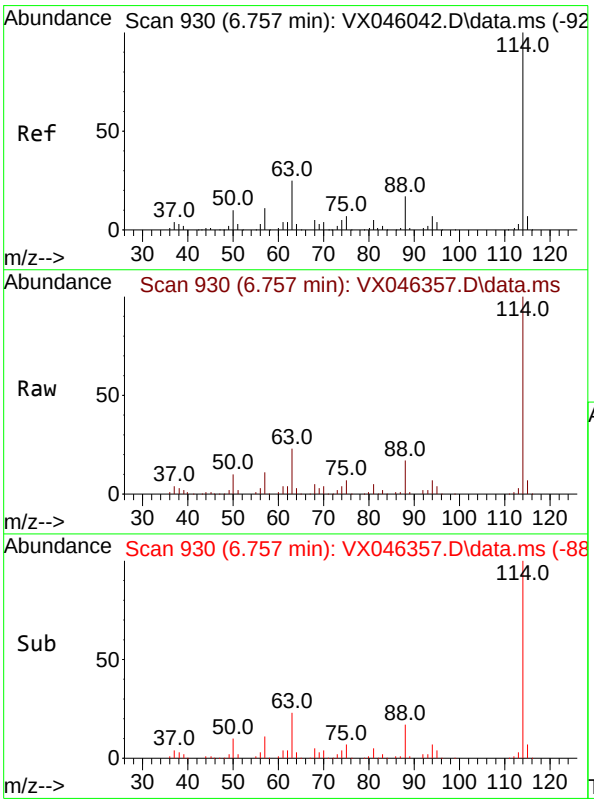
#33
1,2-Dichloroethane-d4
Concen: 53.222 ug/l
RT: 5.952 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 65 Resp: 76303

Ion	Ratio	Lower	Upper
65	100		
67	49.5	0.0	99.0

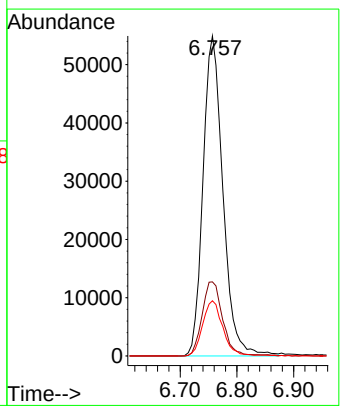


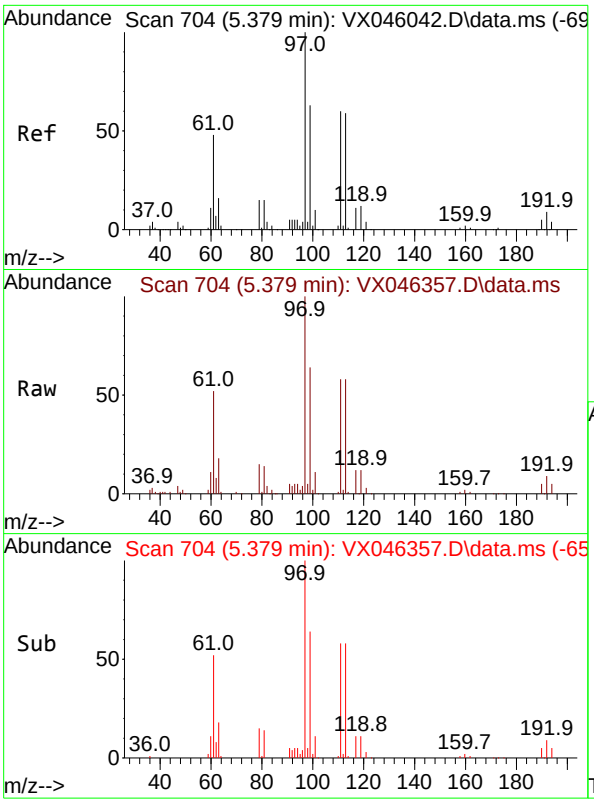


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion:114 Resp: 133895

Ion	Ratio	Lower	Upper
114	100		
63	23.2	0.0	49.2
88	17.3	0.0	33.6



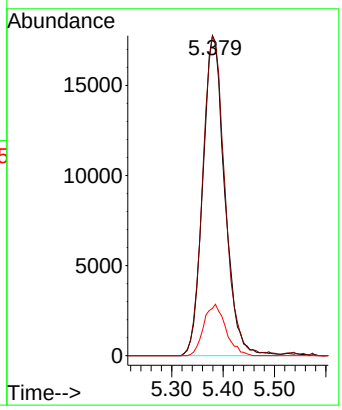


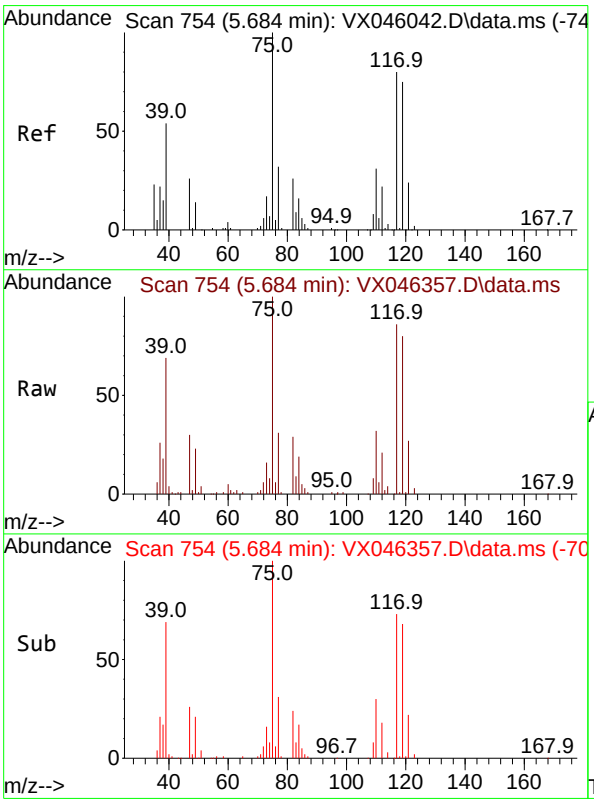
#35
Dibromofluoromethane
Concen: 54.480 ug/l
RT: 5.379 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:113 Resp: 52529

Ion	Ratio	Lower	Upper
113	100		
111	101.6	83.1	124.7
192	16.2	13.3	19.9

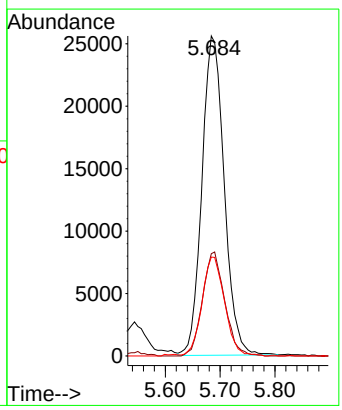


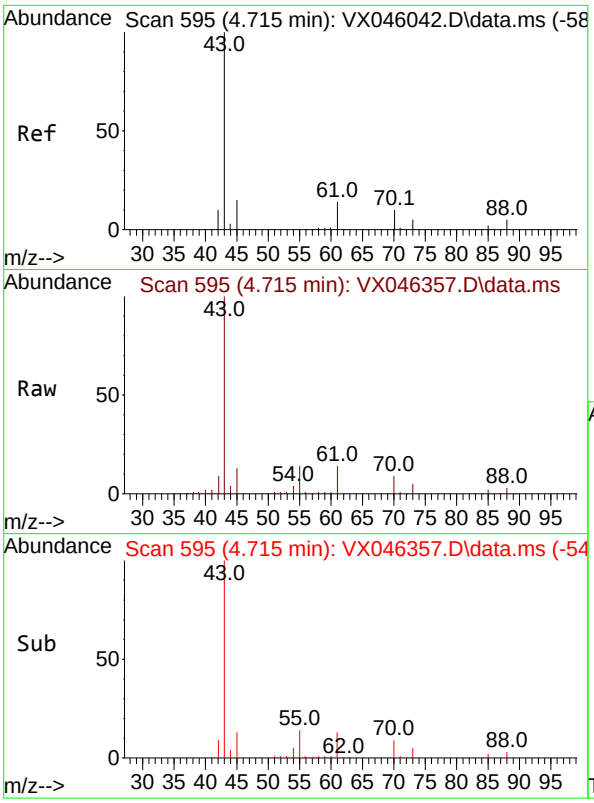


#36
1,1-Dichloropropene
Concen: 55.684 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 75 Resp: 72138

Ion	Ratio	Lower	Upper
75	100		
110	32.4	16.3	48.9
77	31.4	24.3	36.5



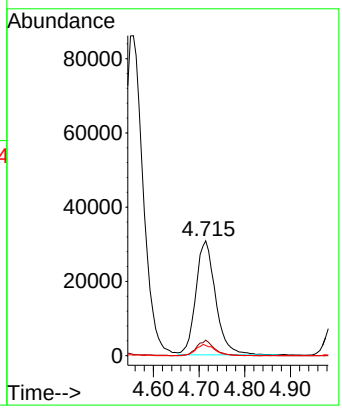


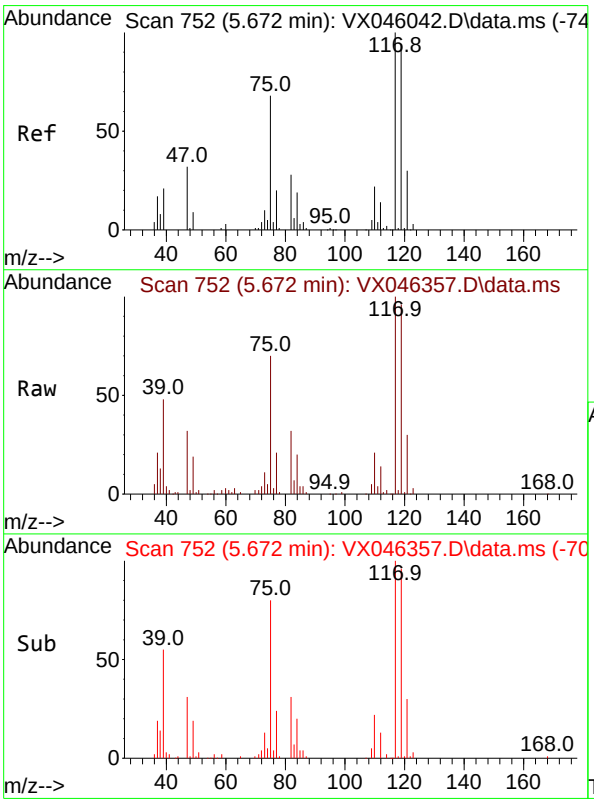
#37
Ethyl Acetate
Concen: 57.707 ug/l
RT: 4.715 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 92364

Ion	Ratio	Lower	Upper
43	100		
61	12.2	10.3	15.5
70	9.4	7.9	11.9

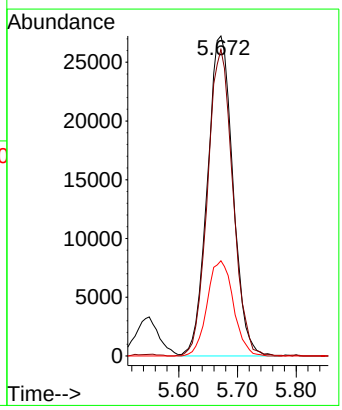


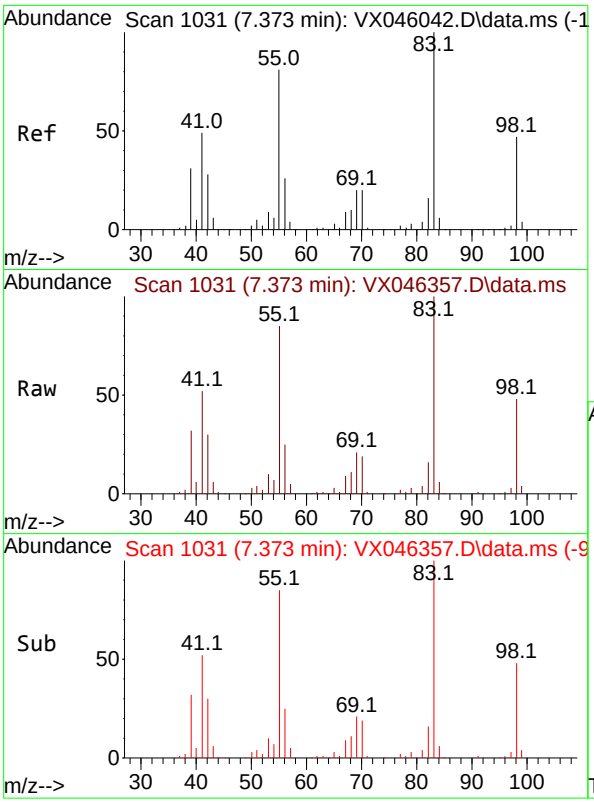


#38
Carbon Tetrachloride
Concen: 56.496 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion:117 Resp: 82234

Ion	Ratio	Lower	Upper
117	100		
119	95.6	75.2	112.8
121	29.7	24.2	36.4



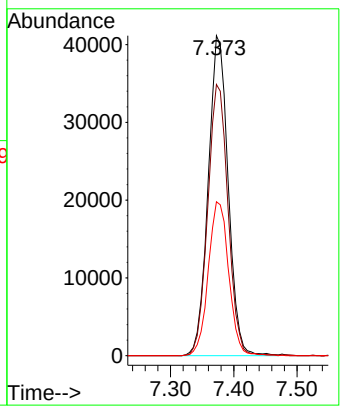


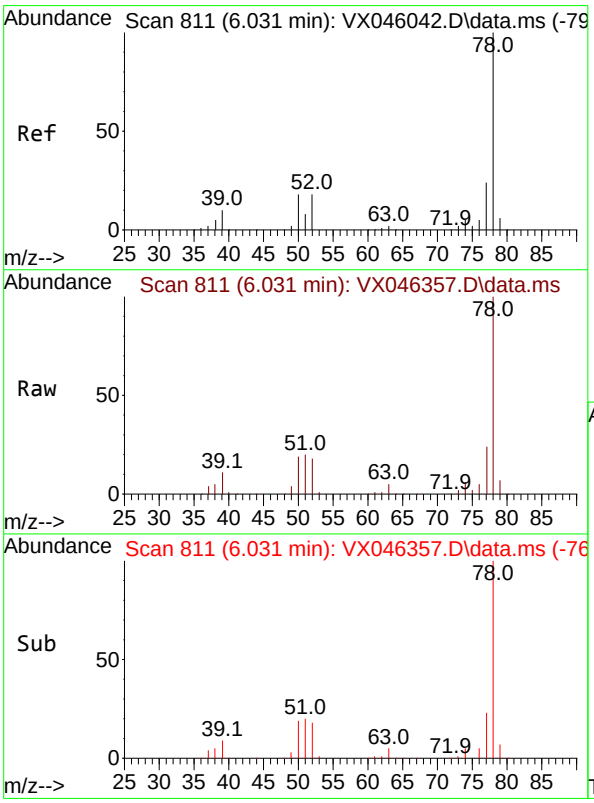
#39
Methylcyclohexane
Concen: 54.143 ug/l
RT: 7.373 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 90301

Ion	Ratio	Lower	Upper
83	100		
55	84.8	64.7	97.1
98	48.1	37.4	56.2

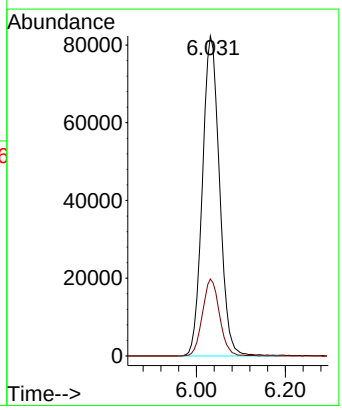


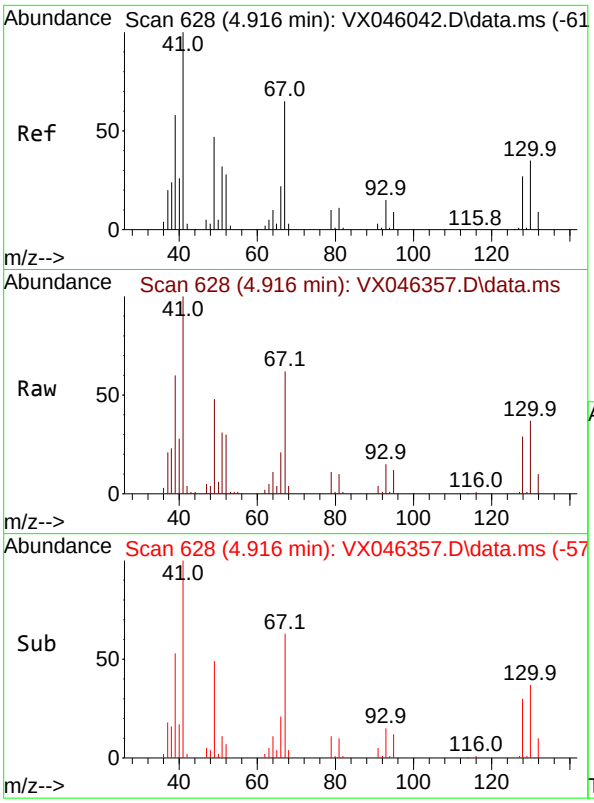


#40
Benzene
Concen: 58.216 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 78 Resp: 220905

Ion	Ratio	Lower	Upper
78	100		
77	24.0	19.0	28.4



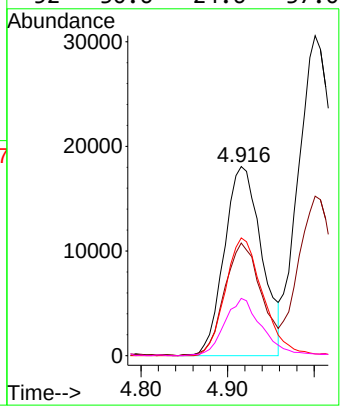


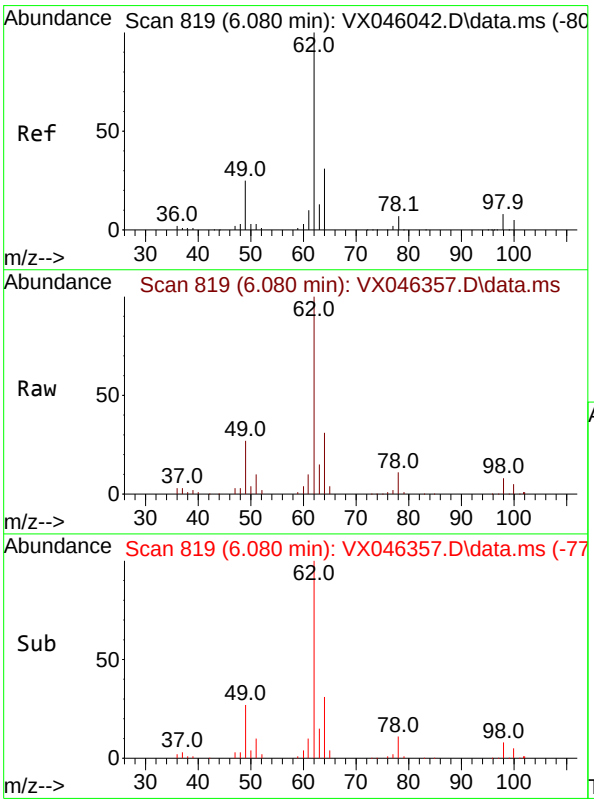
#41
Methacrylonitrile
Concen: 64.894 ug/l
RT: 4.916 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 41 Resp: 54334

Ion	Ratio	Lower	Upper
41	100		
39	58.8	47.2	70.8
67	62.8	50.7	76.1
52	30.6	24.6	37.0

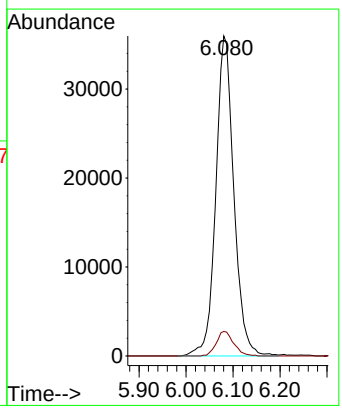


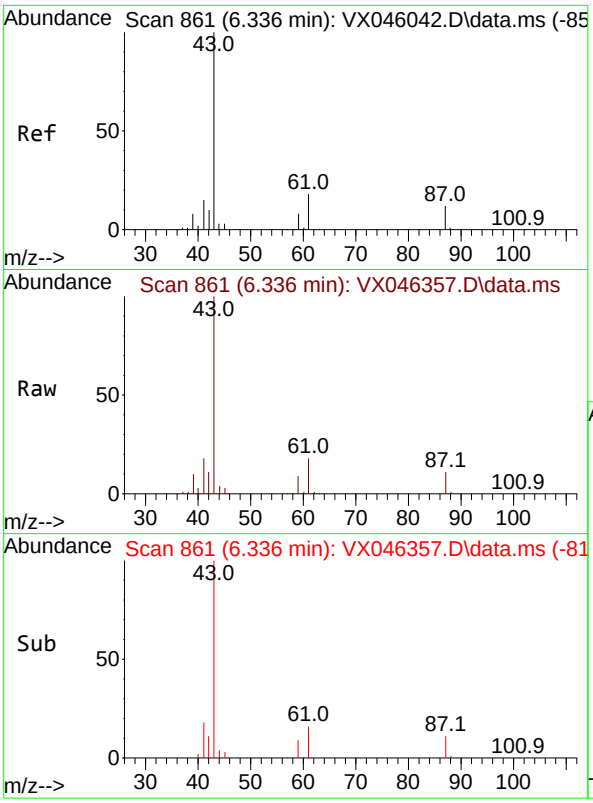


#42
1,2-Dichloroethane
Concen: 58.585 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 62 Resp: 95945

Ion	Ratio	Lower	Upper
62	100		
98	7.4	0.0	15.2



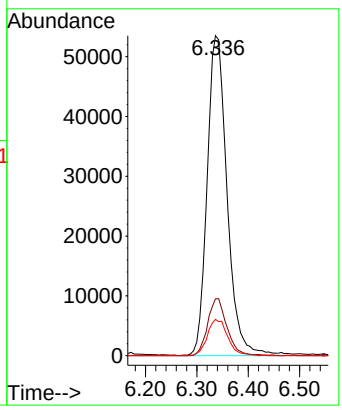


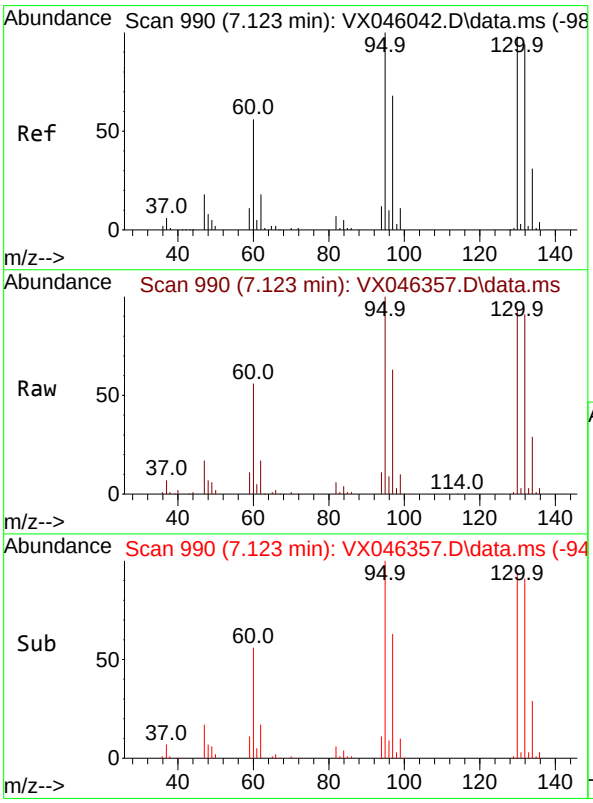
#43
Isopropyl Acetate
Concen: 59.095 ug/l
RT: 6.336 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 144296

Ion	Ratio	Lower	Upper
43	100		
61	17.4	14.3	21.5
87	11.5	9.5	14.3

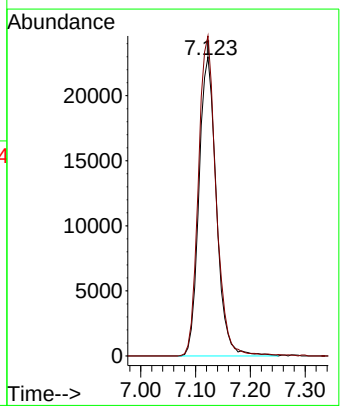


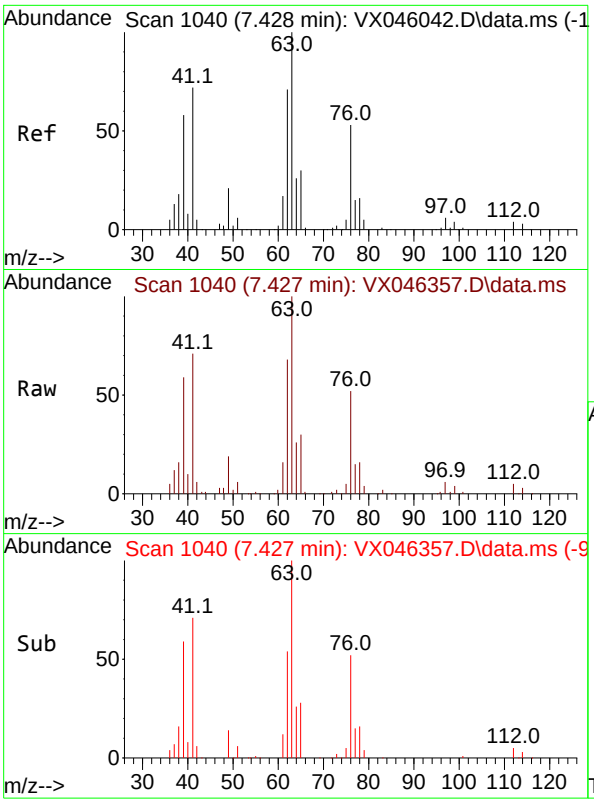


#44
Trichloroethene
Concen: 55.577 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion:130 Resp: 50758

Ion	Ratio	Lower	Upper
130	100		
95	106.9	0.0	204.2



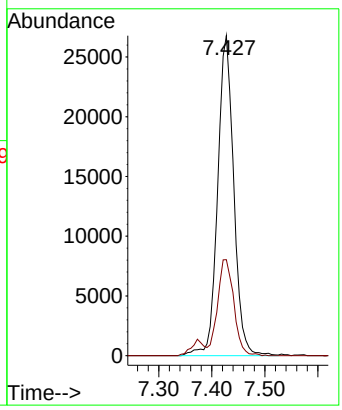


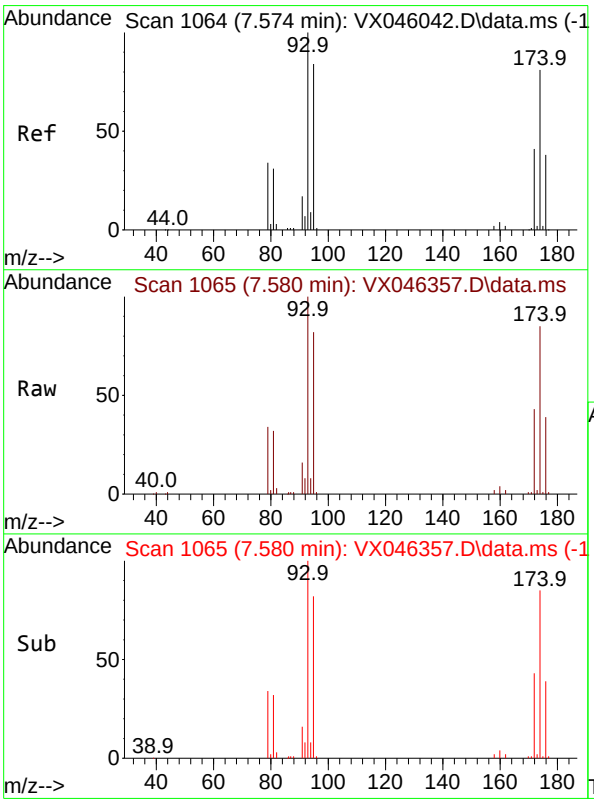
#45
1,2-Dichloropropane
Concen: 59.869 ug/l
RT: 7.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 63 Resp: 56489

Ion	Ratio	Lower	Upper
63	100		
65	30.0	24.1	36.1

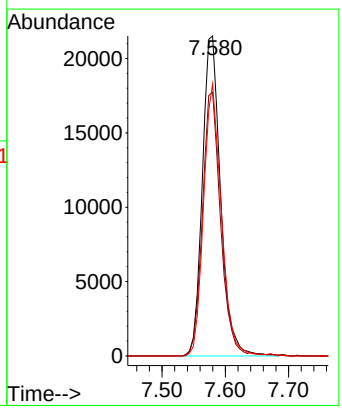


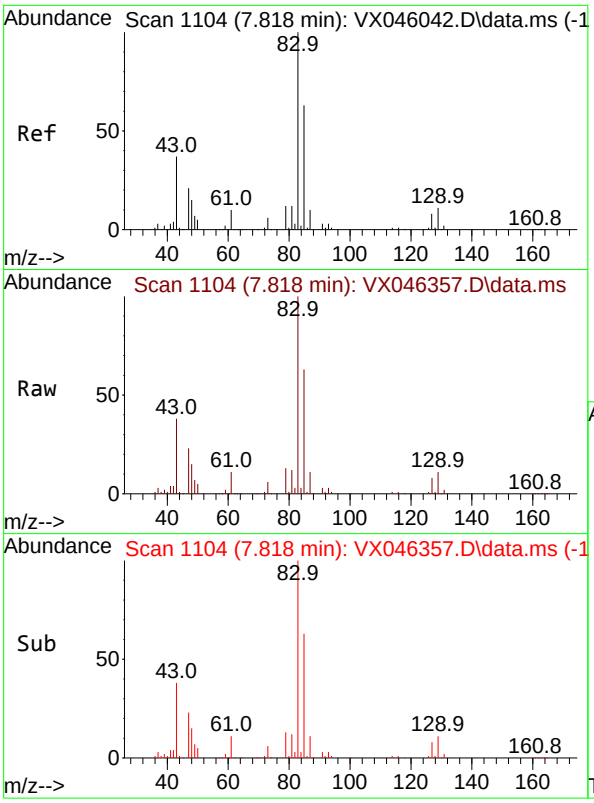


#46
Dibromomethane
Concen: 57.908 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. 0.006 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 93 Resp: 43094

Ion	Ratio	Lower	Upper
93	100		
95	82.5	65.6	98.4
174	83.1	68.2	102.2



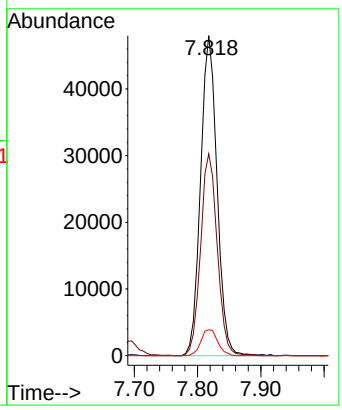


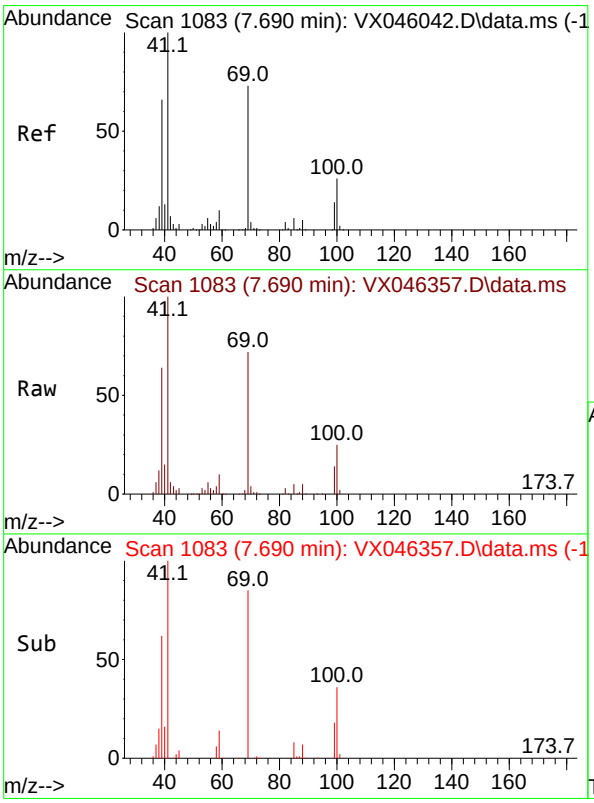
#47
Bromodichloromethane
Concen: 59.530 ug/l
RT: 7.818 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 87255

Ion	Ratio	Lower	Upper
83	100		
85	63.1	50.5	75.7
127	8.1	6.5	9.7

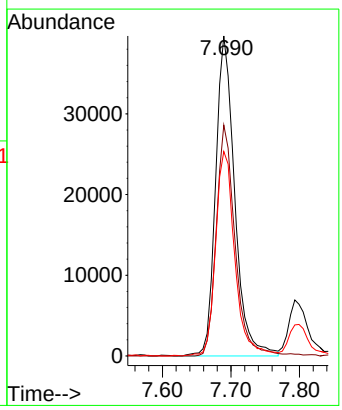


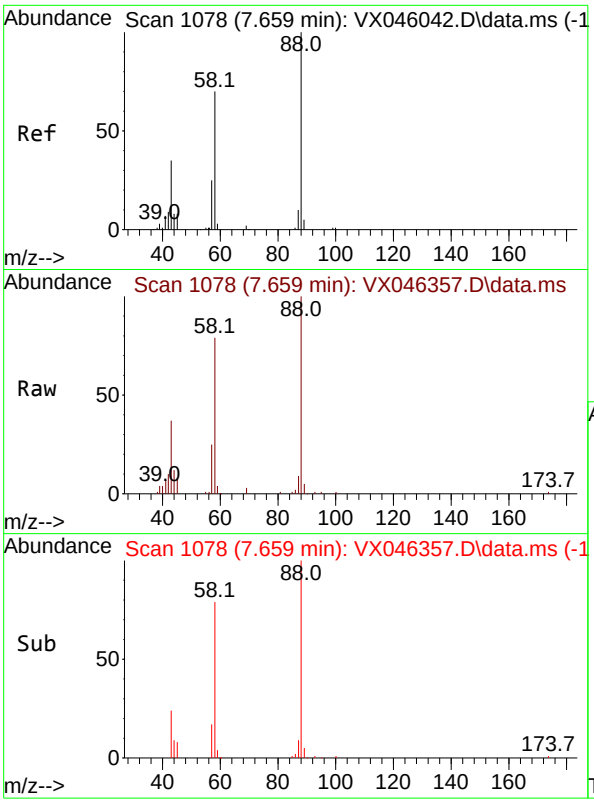


#48
Methyl methacrylate
Concen: 61.388 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 41 Resp: 76552

Ion	Ratio	Lower	Upper
41	100		
69	71.3	58.5	87.7
39	64.4	51.7	77.5



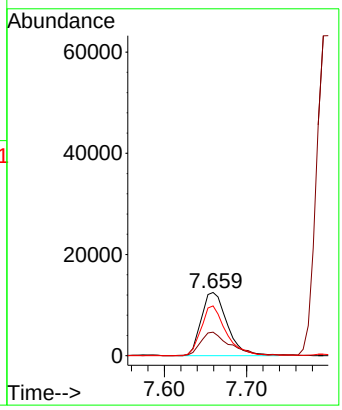


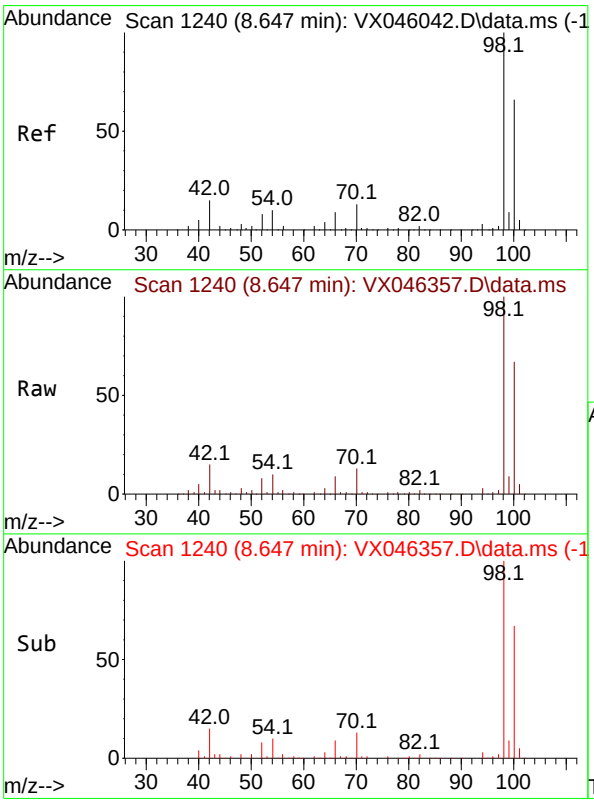
#49
1,4-Dioxane
Concen: 1156.492 ug/l
RT: 7.659 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 88 Resp: 27383

Ion	Ratio	Lower	Upper
88	100		
43	42.8	33.4	50.2
58	76.3	58.6	88.0

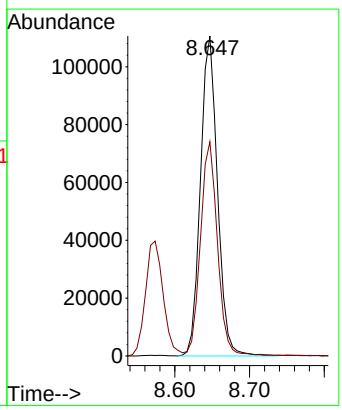


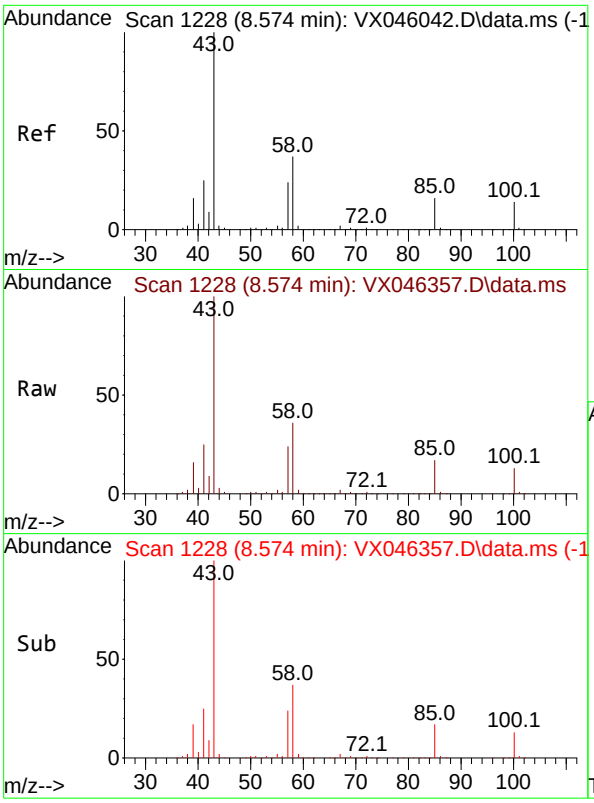


#50
Toluene-d8
Concen: 52.406 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 98 Resp: 174887

Ion	Ratio	Lower	Upper
98	100		
100	66.5	53.5	80.3



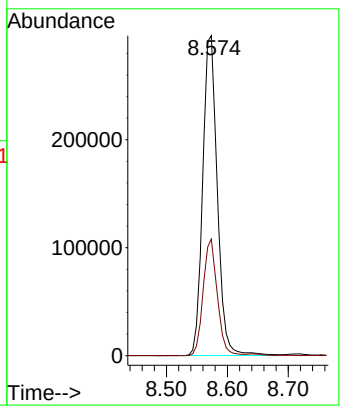


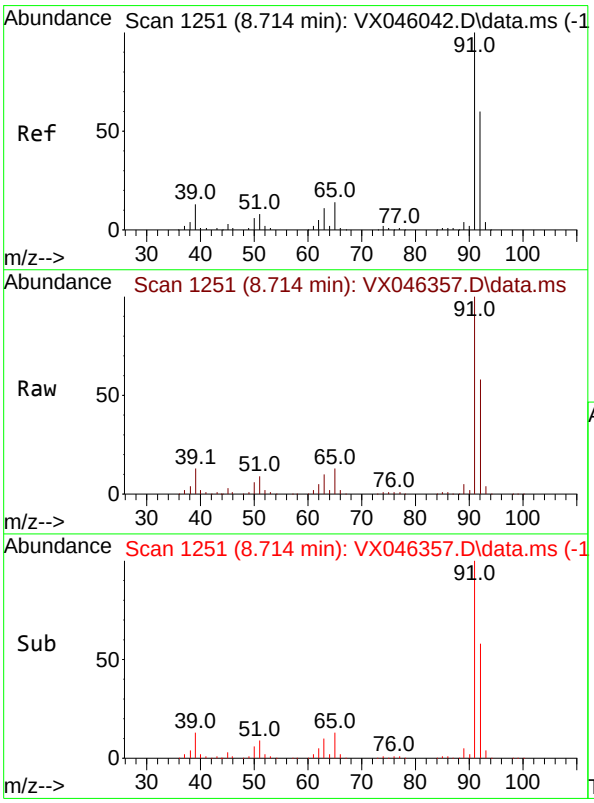
#51
4-Methyl-2-Pentanone
Concen: 305.280 ug/l
RT: 8.574 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 494800

Ion	Ratio	Lower	Upper
43	100		
58	35.3	28.9	43.3

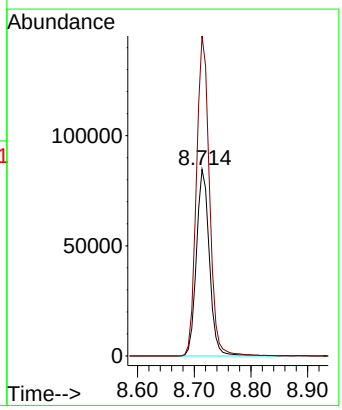


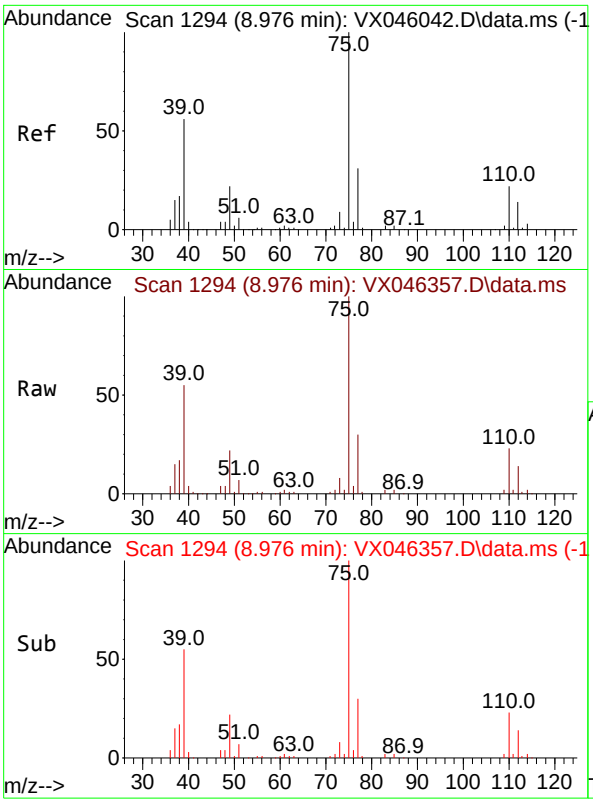


#52
Toluene
Concen: 57.742 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 92 Resp: 134352

Ion	Ratio	Lower	Upper
92	100		
91	172.8	136.6	205.0



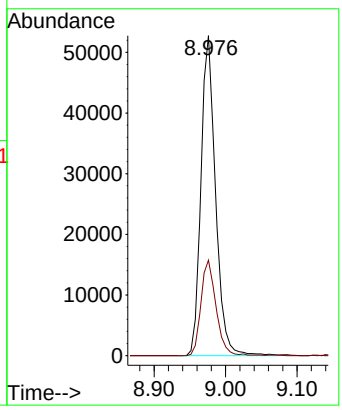


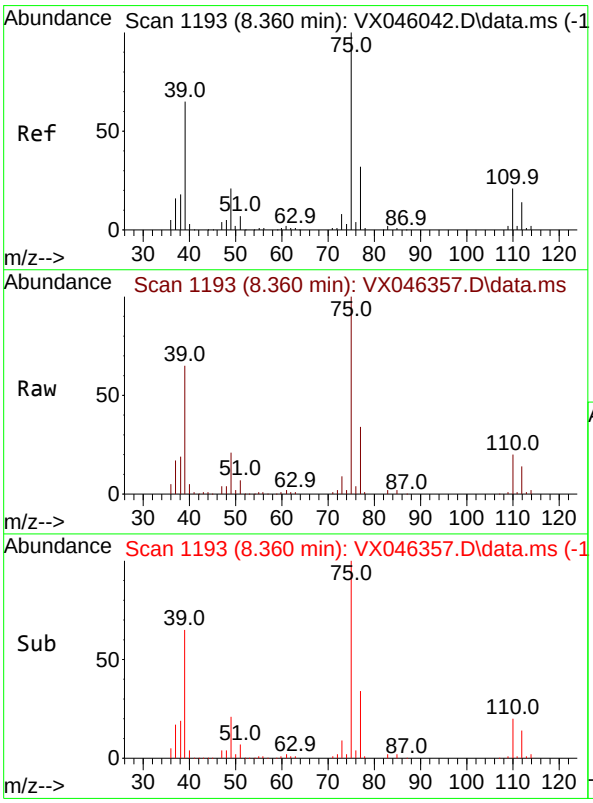
#53
t-1,3-Dichloropropene
Concen: 57.441 ug/l
RT: 8.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 75 Resp: 74835

Ion	Ratio	Lower	Upper
75	100		
77	29.8	25.0	37.6

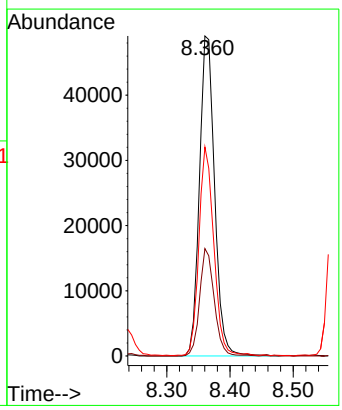


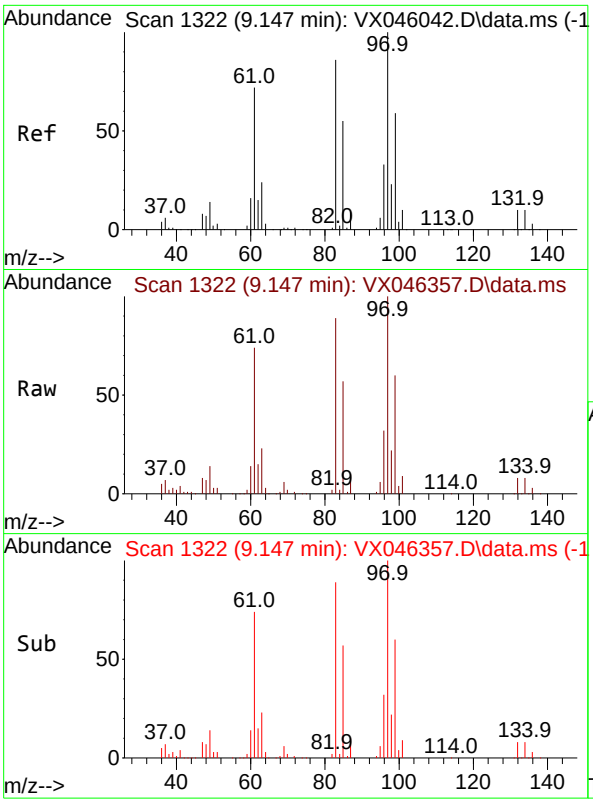


#54
cis-1,3-Dichloropropene
Concen: 57.117 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 75 Resp: 82245

Ion	Ratio	Lower	Upper
75	100		
77	33.6	25.4	38.0
39	65.1	52.2	78.4



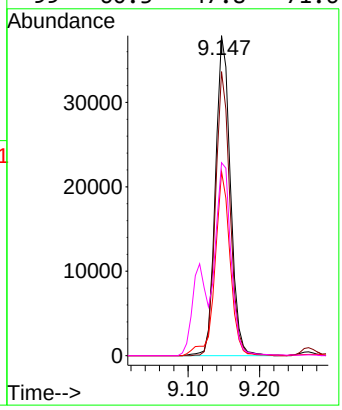


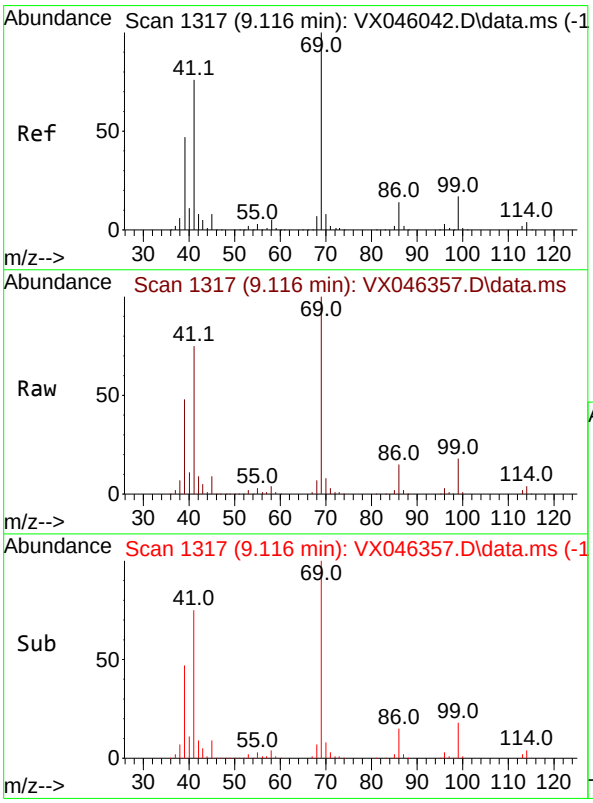
#55
1,1,2-Trichloroethane
Concen: 60.037 ug/l
RT: 9.147 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 97 Resp: 55081

Ion	Ratio	Lower	Upper
97	100		
83	88.7	69.0	103.6
85	57.5	44.3	66.5
99	60.3	47.8	71.6

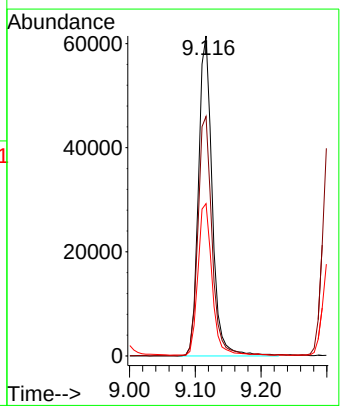


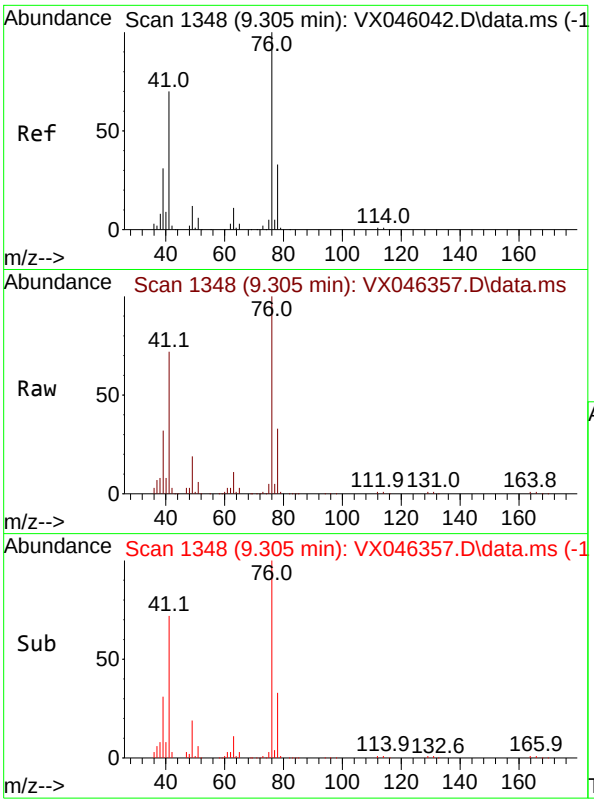


#56
Ethyl methacrylate
Concen: 61.050 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 69 Resp: 89269

Ion	Ratio	Lower	Upper
69	100		
41	77.1	60.8	91.2
39	48.8	39.0	58.6



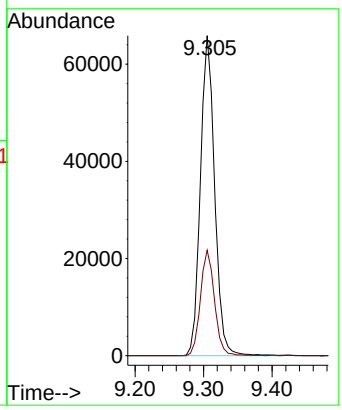


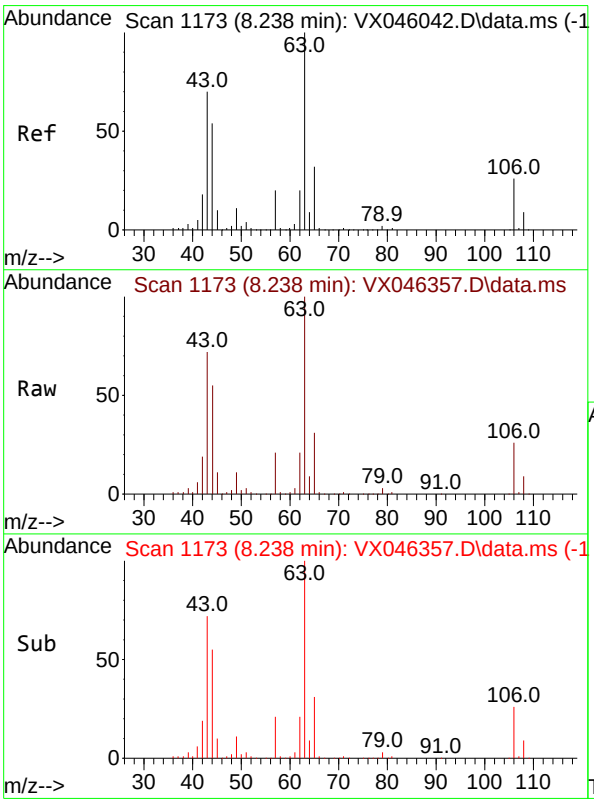
#57
1,3-Dichloropropane
Concen: 57.929 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 76 Resp: 95448

Ion	Ratio	Lower	Upper
76	100		
78	32.5	26.3	39.5

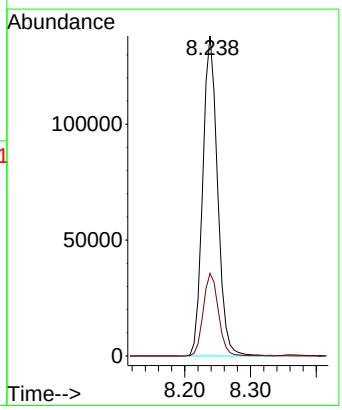


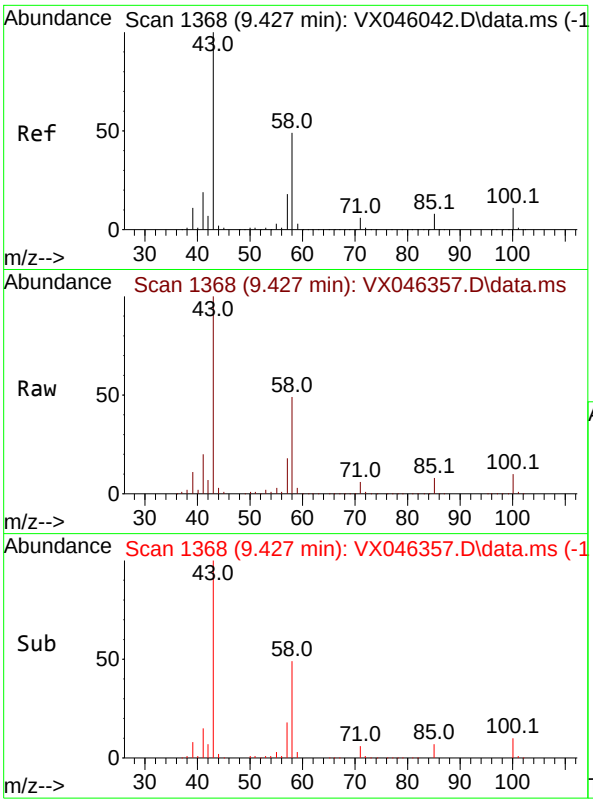


#58
2-Chloroethyl Vinyl ether
Concen: 290.480 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 63 Resp: 216543

Ion	Ratio	Lower	Upper
63	100		
106	26.4	21.5	32.3



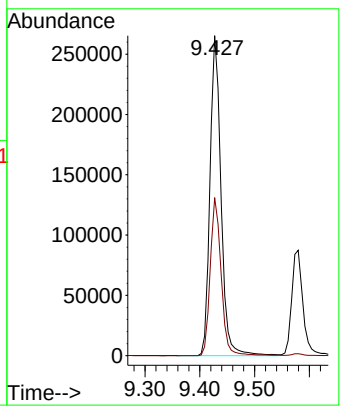


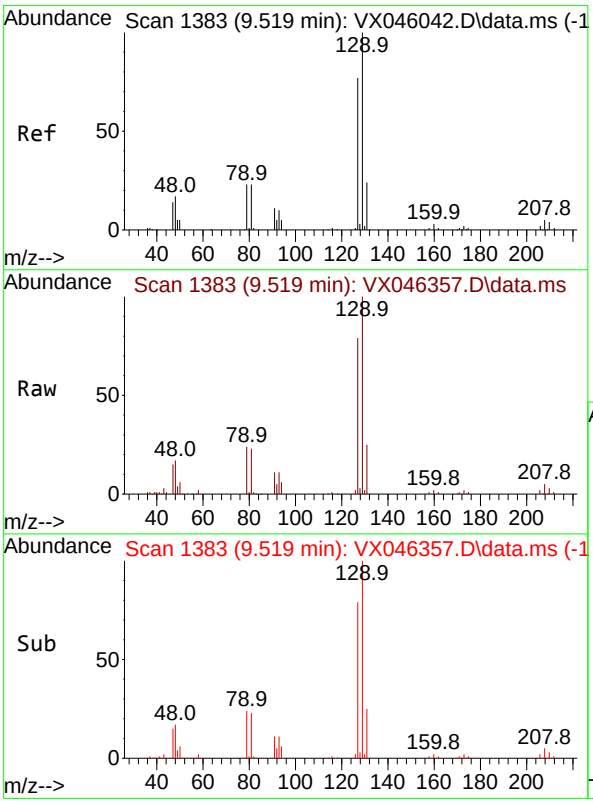
#59
2-Hexanone
Concen: 307.441 ug/l
RT: 9.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 368660

Ion	Ratio	Lower	Upper
43	100		
58	49.1	24.9	74.6

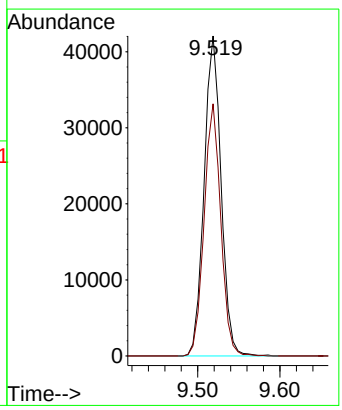


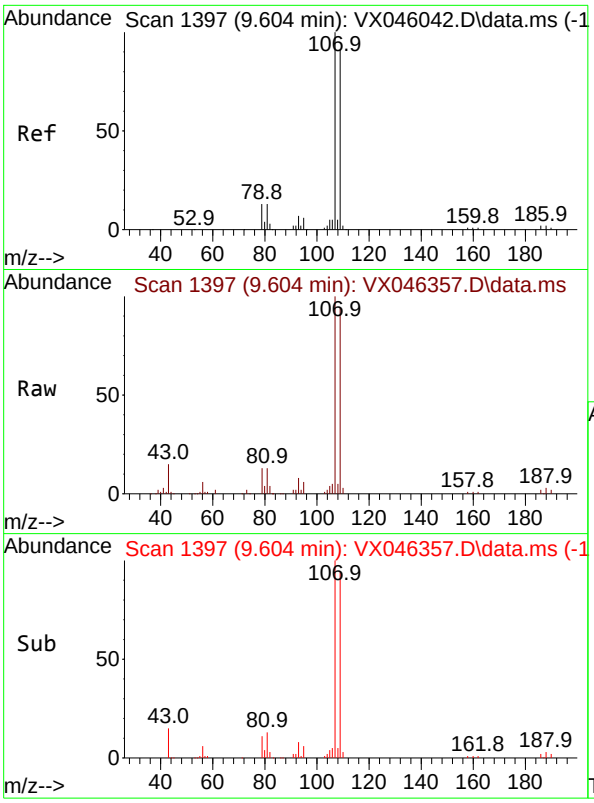


#60
Dibromochloromethane
Concen: 59.883 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion:129 Resp: 60337

Ion	Ratio	Lower	Upper
129	100		
127	77.3	39.3	117.8



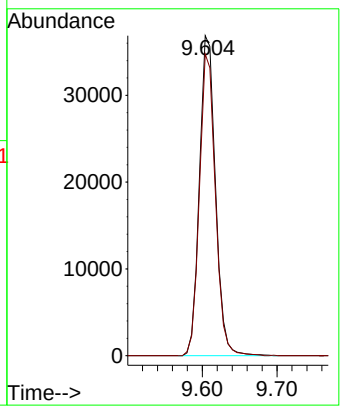


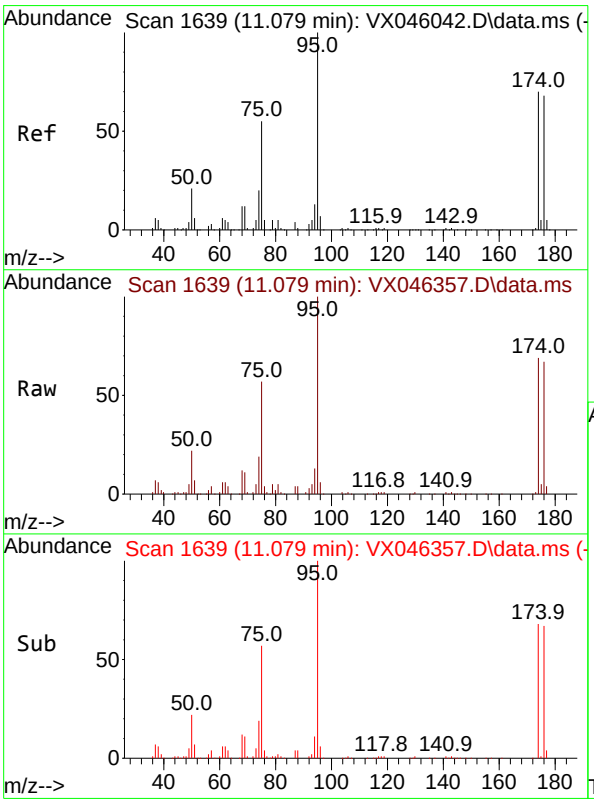
#61
1,2-Dibromoethane
Concen: 57.641 ug/l
RT: 9.604 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:107 Resp: 54964

Ion	Ratio	Lower	Upper
107	100		
109	93.8	73.3	109.9

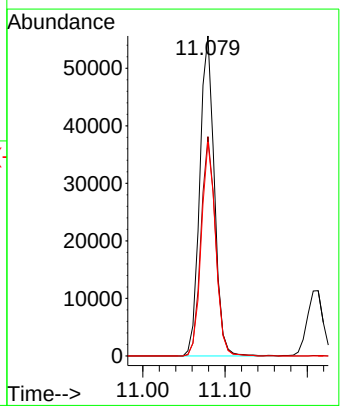


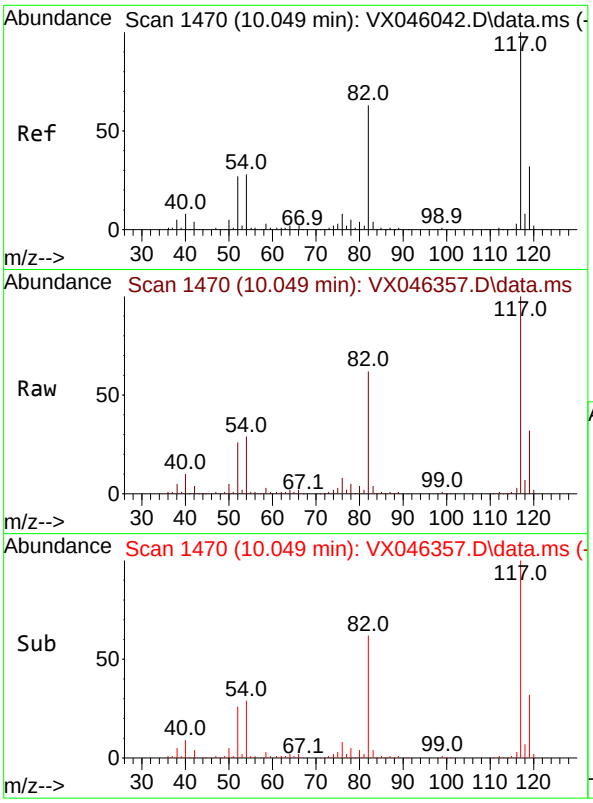


#62
4-Bromofluorobenzene
Concen: 53.512 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 95 Resp: 68500

Ion	Ratio	Lower	Upper
95	100		
174	68.4	0.0	135.8
176	65.3	0.0	131.4



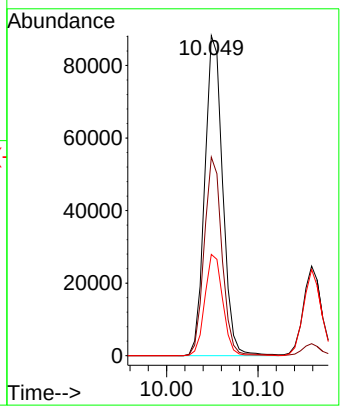


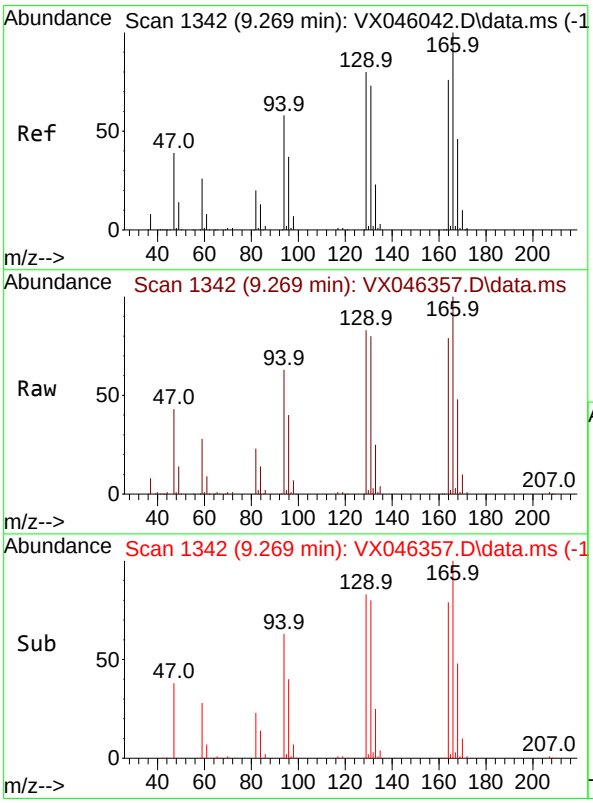
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:117 Resp: 119793

Ion	Ratio	Lower	Upper
117	100		
82	62.1	50.6	76.0
119	31.6	25.8	38.6

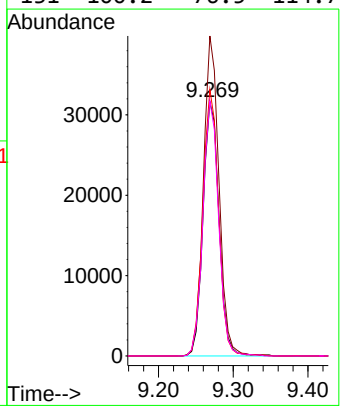


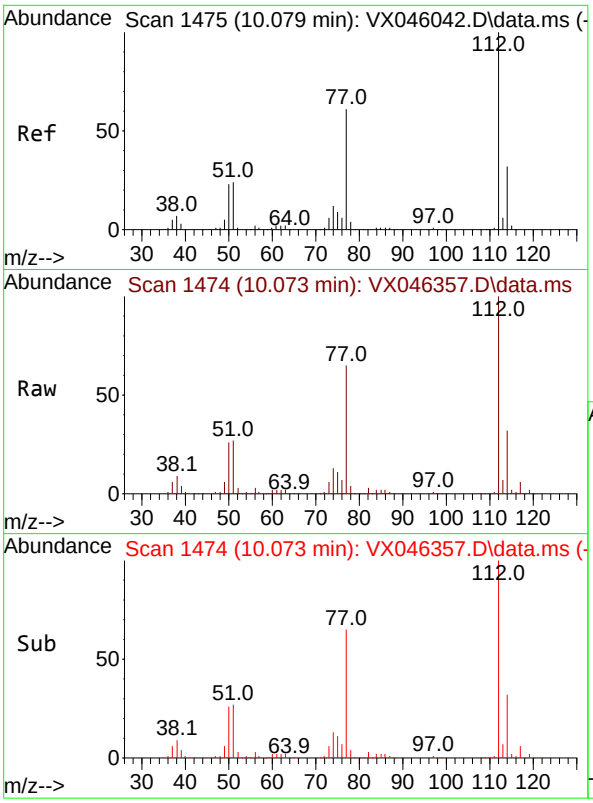


#64
Tetrachloroethene
Concen: 55.224 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion:164 Resp: 46807

Ion	Ratio	Lower	Upper
164	100		
166	125.8	105.0	157.6
129	104.8	83.5	125.3
131	100.2	76.5	114.7



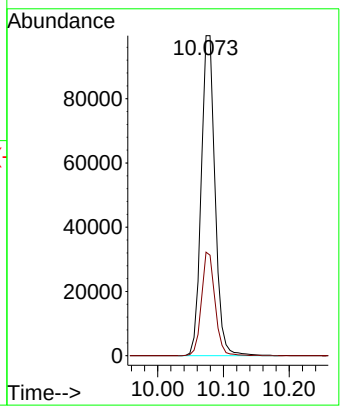


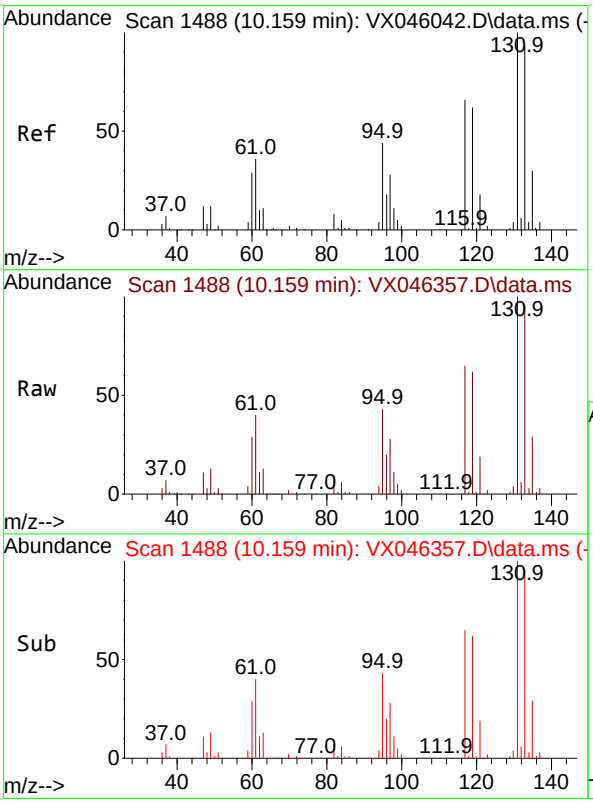
#65
Chlorobenzene
Concen: 55.532 ug/l
RT: 10.073 min Scan# 14
Delta R.T. -0.006 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:112 Resp: 145604

Ion	Ratio	Lower	Upper
112	100		
114	32.4	25.4	38.2

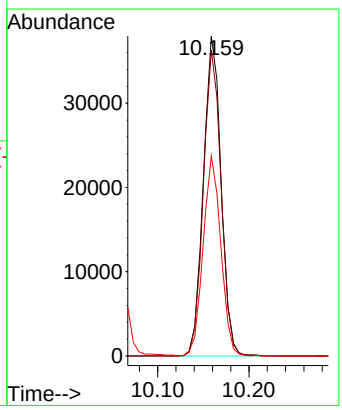


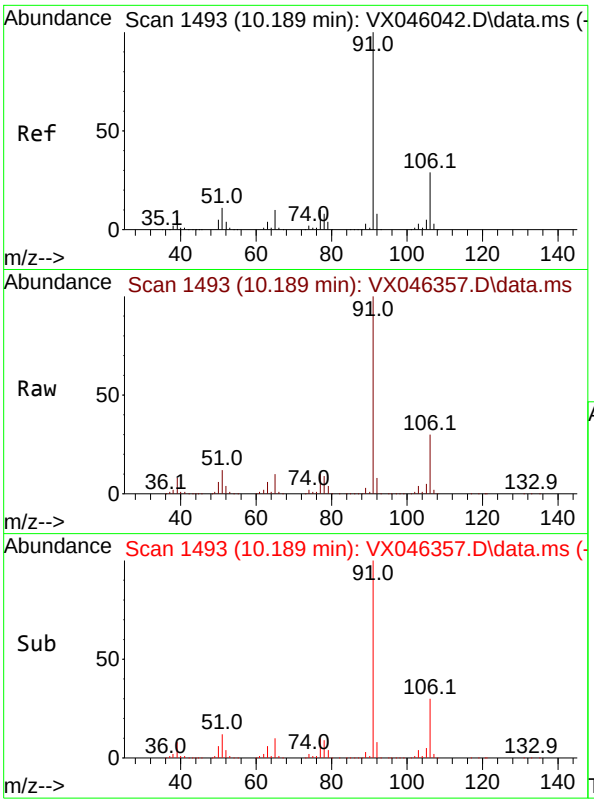


#66
1,1,1,2-Tetrachloroethane
Concen: 56.915 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion:131 Resp: 50957

Ion	Ratio	Lower	Upper
131	100		
133	95.6	47.3	141.9
119	62.5	31.6	95.0



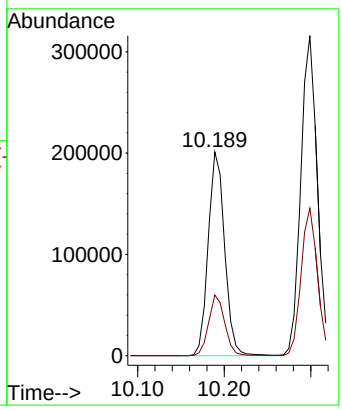


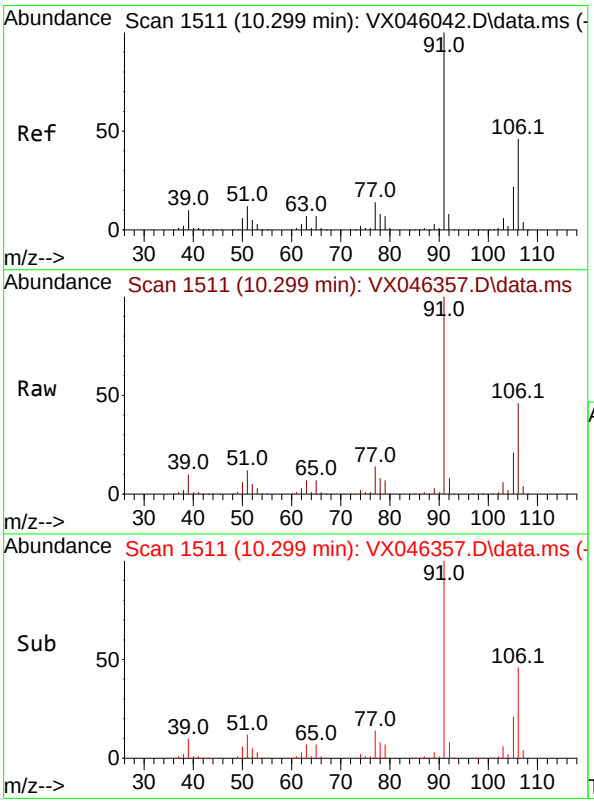
#67
Ethyl Benzene
Concen: 57.440 ug/l
RT: 10.189 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 265477

Ion	Ratio	Lower	Upper
91	100		
106	29.8	23.4	35.2

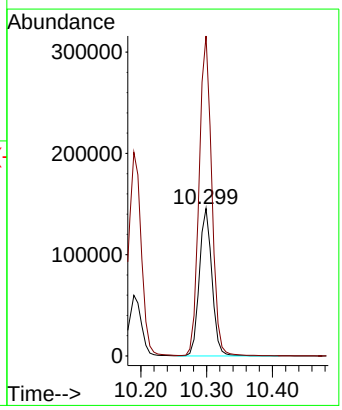


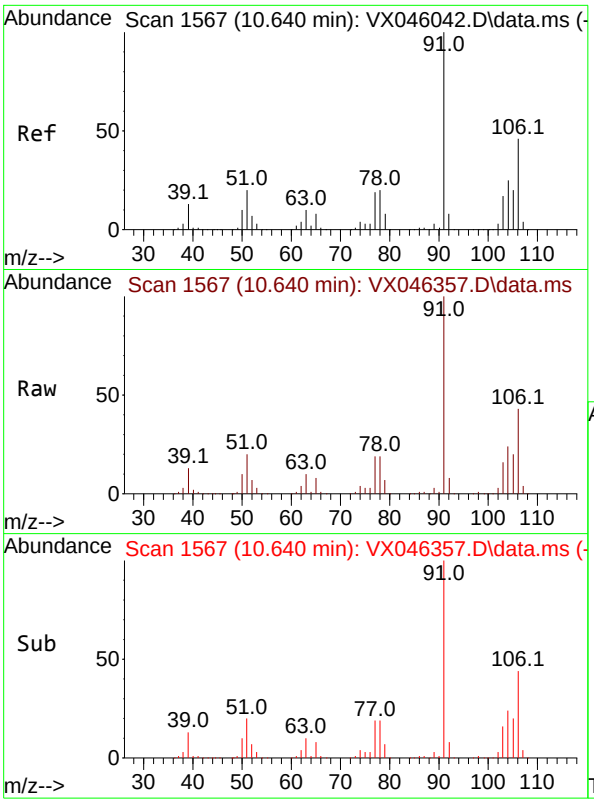


#68
m/p-Xylenes
Concen: 114.503 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion:106 Resp: 193557

Ion	Ratio	Lower	Upper
106	100		
91	217.9	171.2	256.8



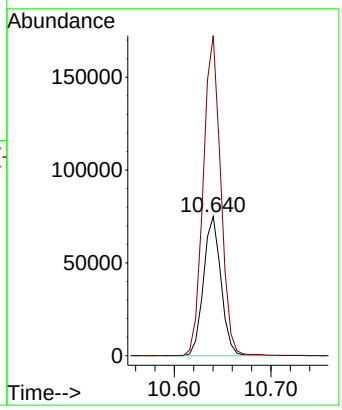


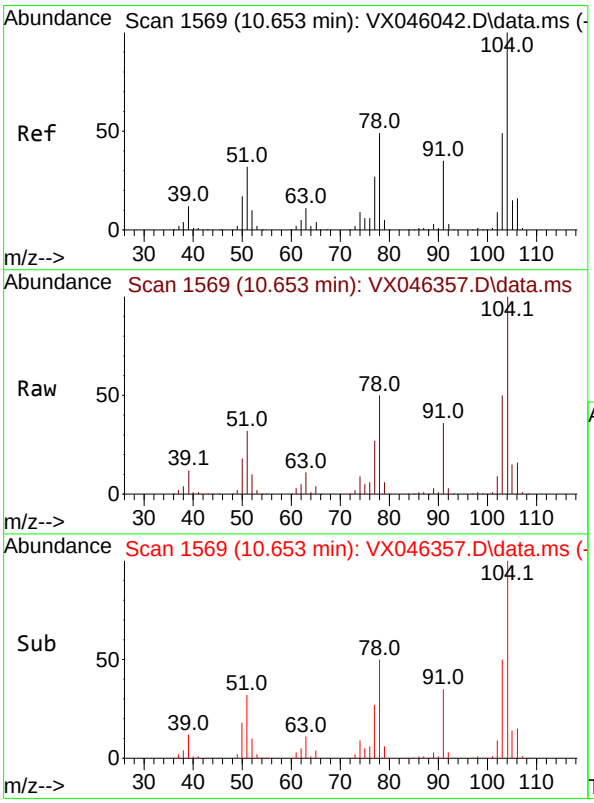
#69
o-Xylene
Concen: 57.235 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:106 Resp: 94322

Ion	Ratio	Lower	Upper
106	100		
91	231.0	112.7	338.1

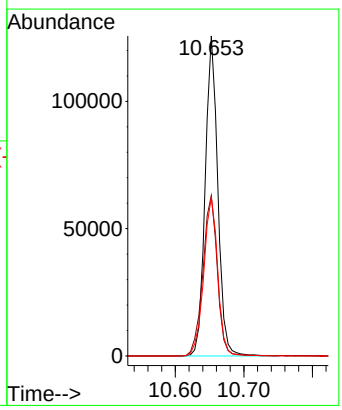


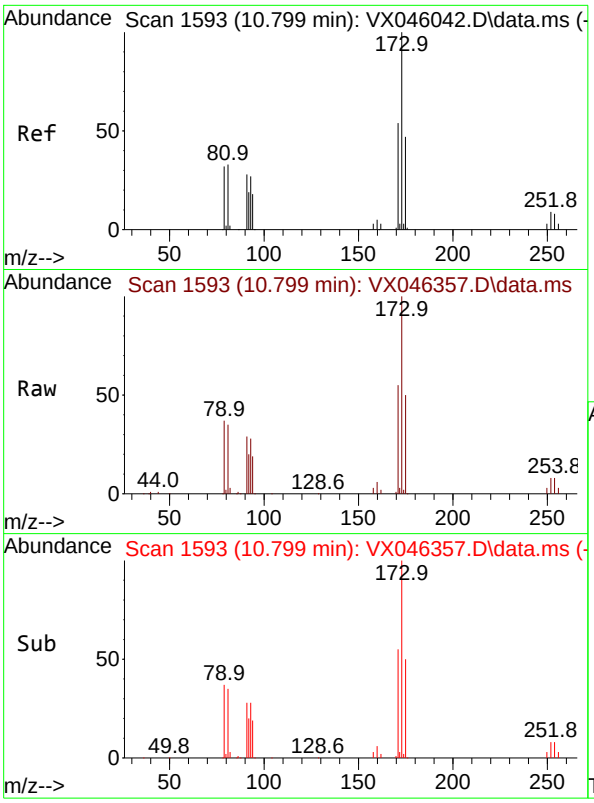


#70
Styrene
Concen: 59.760 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion:104 Resp: 161327

Ion	Ratio	Lower	Upper
104	100		
78	57.4	45.7	68.5
103	55.2	43.7	65.5



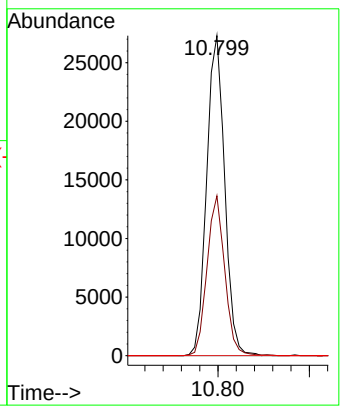


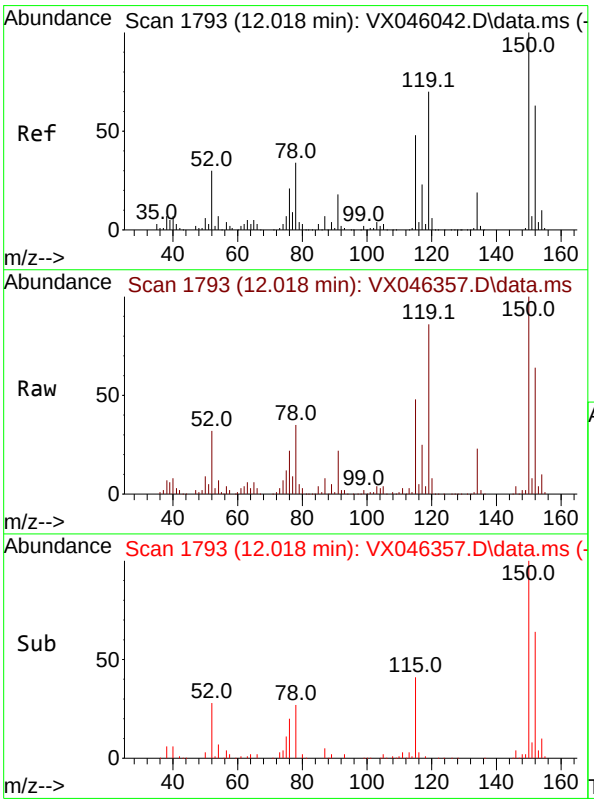
#71
Bromoform
Concen: 55.274 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:173 Resp: 37155

Ion	Ratio	Lower	Upper
173	100		
175	49.5	23.4	70.0
254	0.0	0.0	0.0

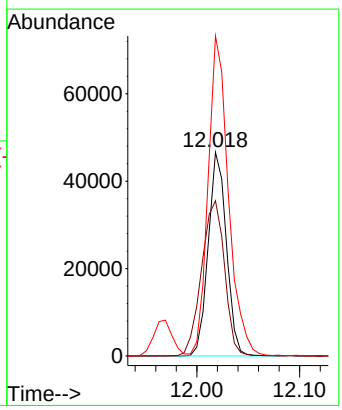


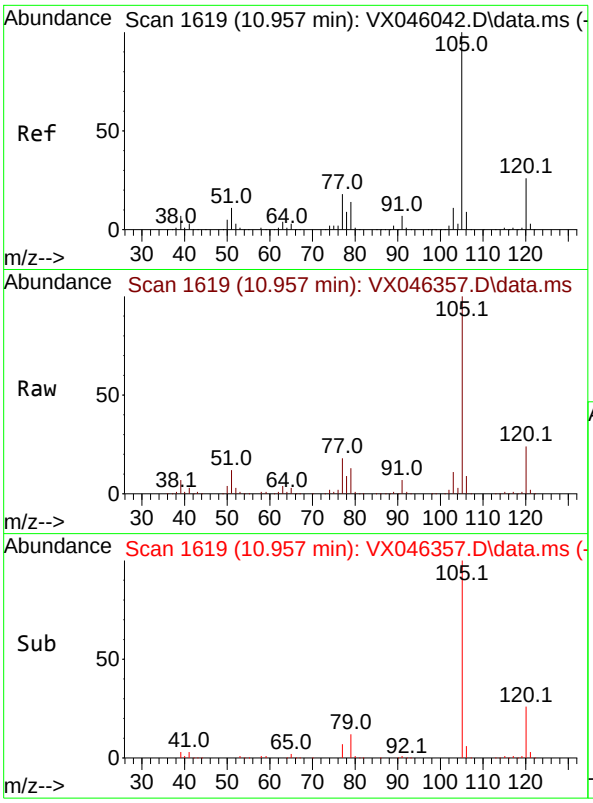


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion:152 Resp: 57270

Ion	Ratio	Lower	Upper
152	100		
115	96.6	46.9	140.7
150	175.6	0.0	351.0



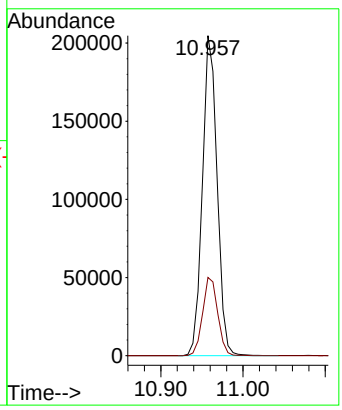


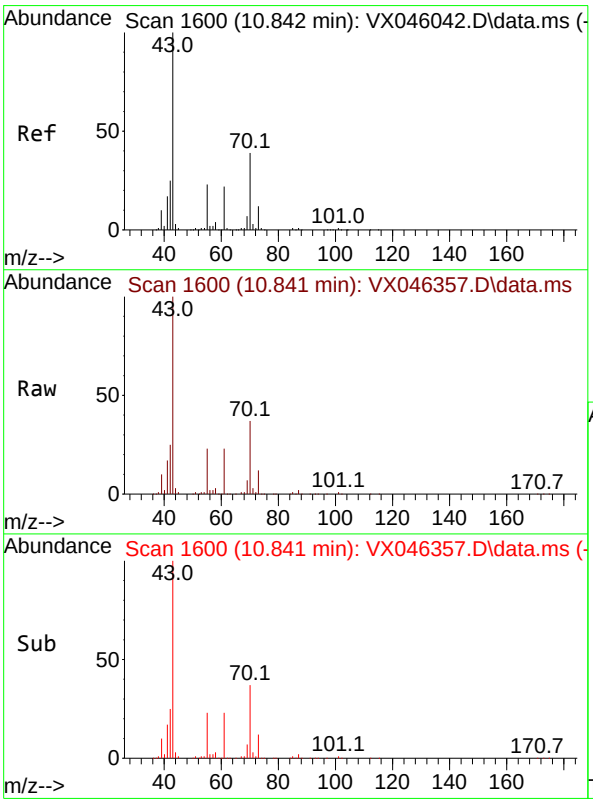
#73
Isopropylbenzene
Concen: 57.069 ug/l
RT: 10.957 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:105 Resp: 254450

Ion	Ratio	Lower	Upper
105	100		
120	25.2	12.8	38.4

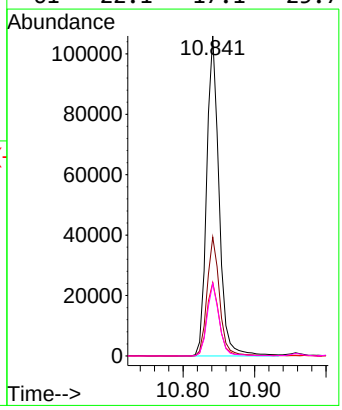


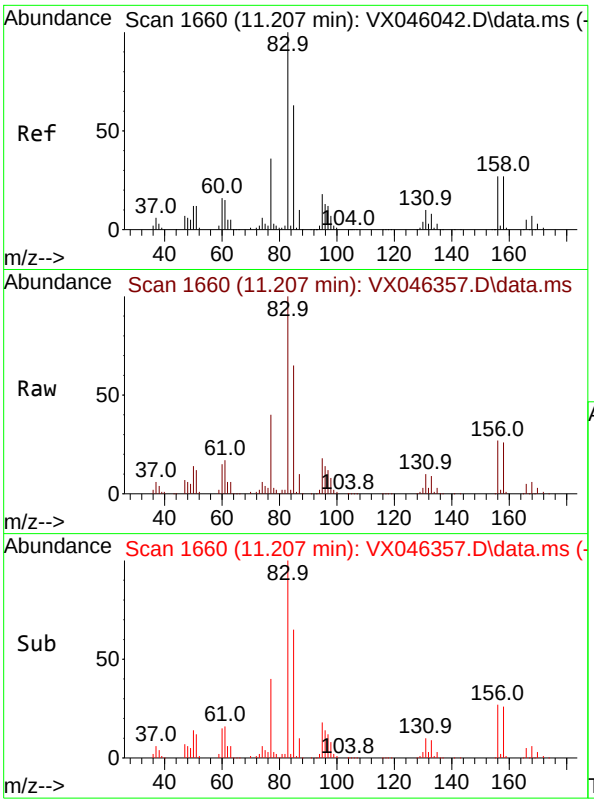


#74
N-amyl acetate
Concen: 57.930 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 43 Resp: 127633

Ion	Ratio	Lower	Upper
43	100		
70	37.3	30.9	46.3
55	23.3	18.7	28.1
61	22.1	17.1	25.7



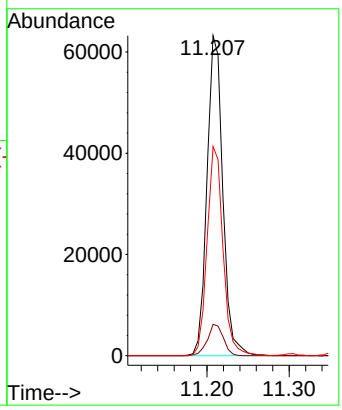


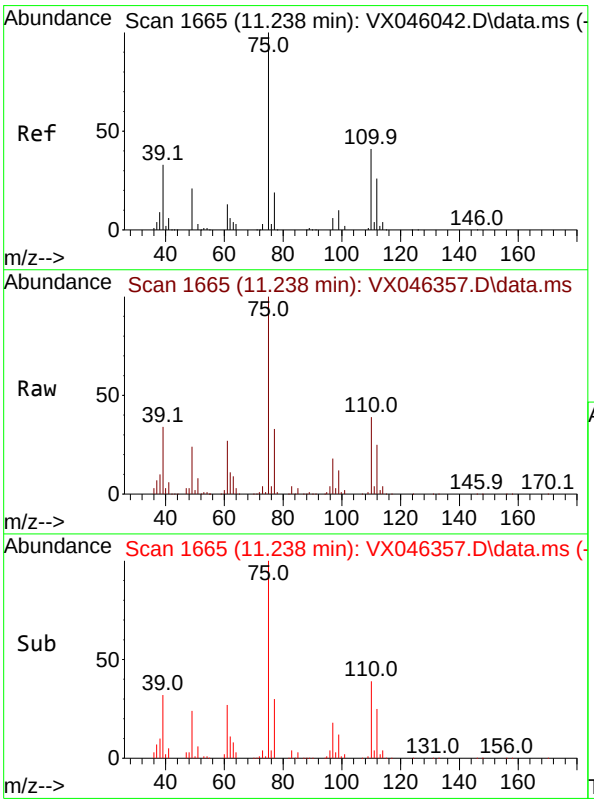
#75
1,1,2,2-Tetrachloroethane
Concen: 53.916 ug/l
RT: 11.207 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 84242

Ion	Ratio	Lower	Upper
83	100		
131	9.9	5.0	14.9
85	65.6	31.9	95.7

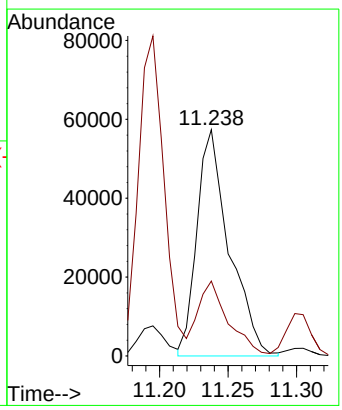


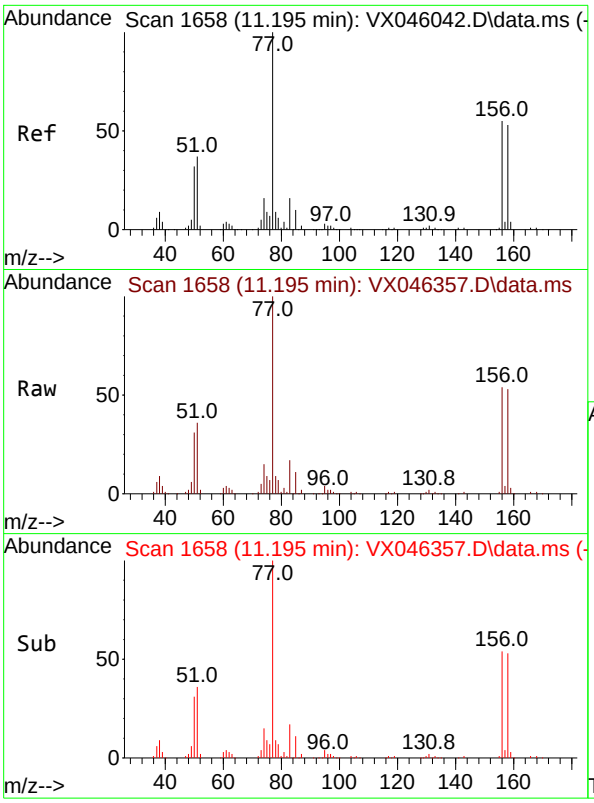


#76
1,2,3-Trichloropropane
Concen: 68.471 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 75 Resp: 94388

Ion	Ratio	Lower	Upper
75	100		
77	31.1	20.5	61.5



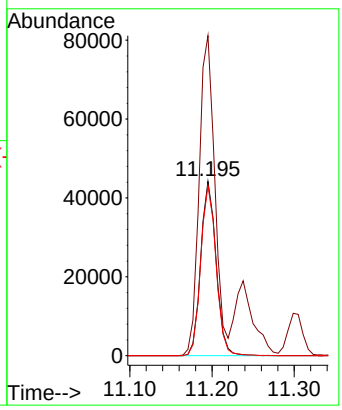


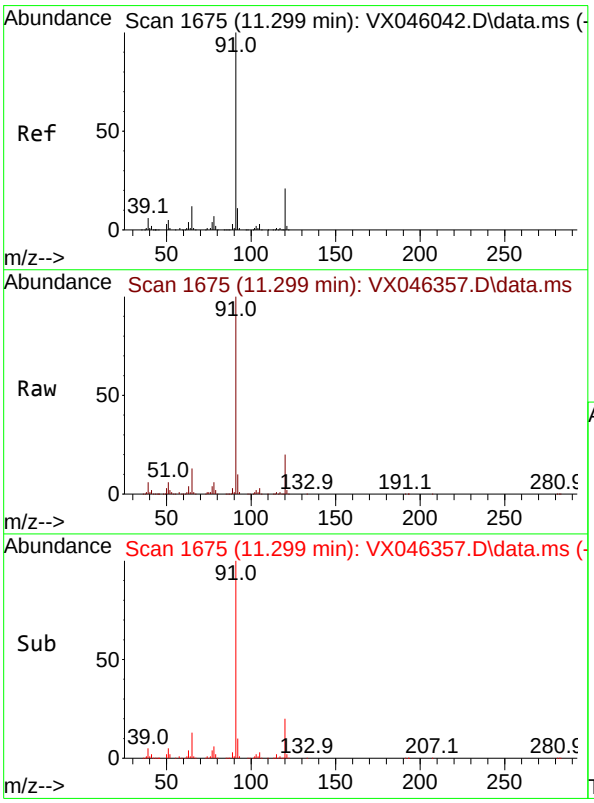
#77
Bromobenzene
Concen: 55.529 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:156 Resp: 57480

Ion	Ratio	Lower	Upper
156	100		
77	186.8	92.8	278.3
158	97.1	48.8	146.3

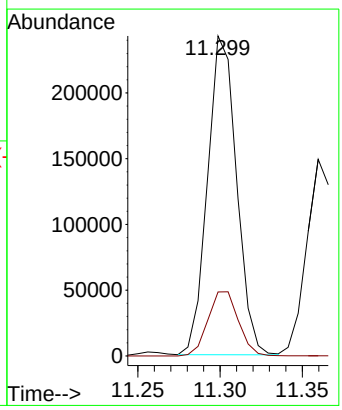


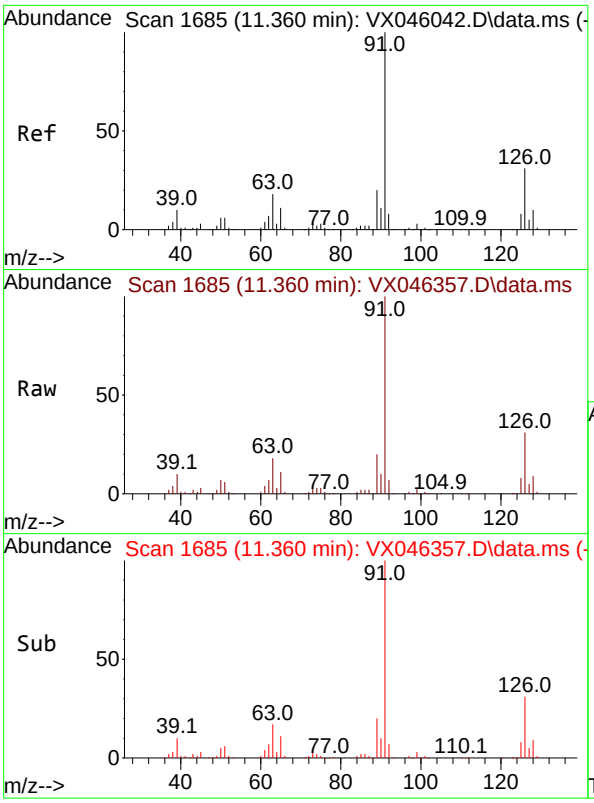


#78
n-propylbenzene
Concen: 57.482 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 91 Resp: 298001

Ion	Ratio	Lower	Upper
91	100		
120	21.2	10.8	32.4



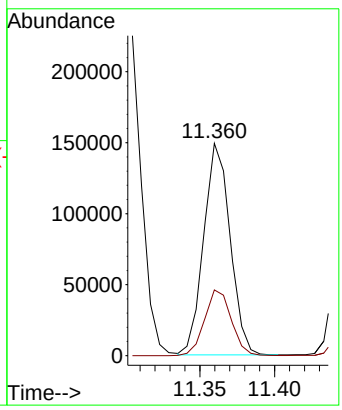


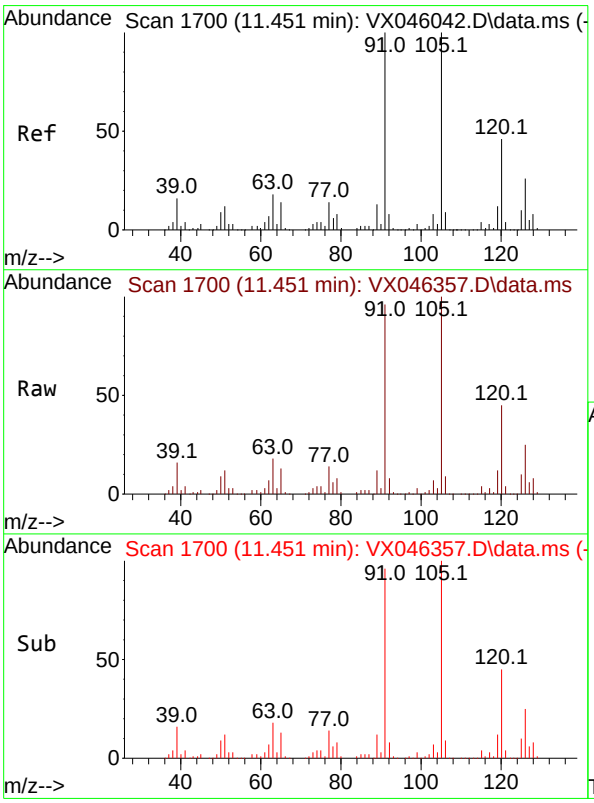
#79
2-Chlorotoluene
Concen: 54.791 ug/l
RT: 11.360 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 183213

Ion	Ratio	Lower	Upper
91	100		
126	31.5	15.6	46.7

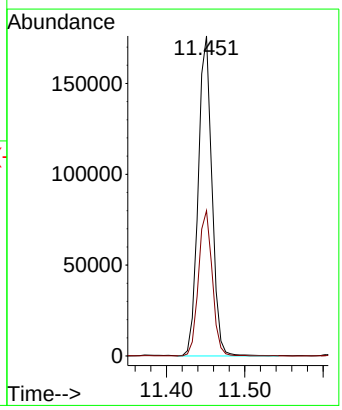


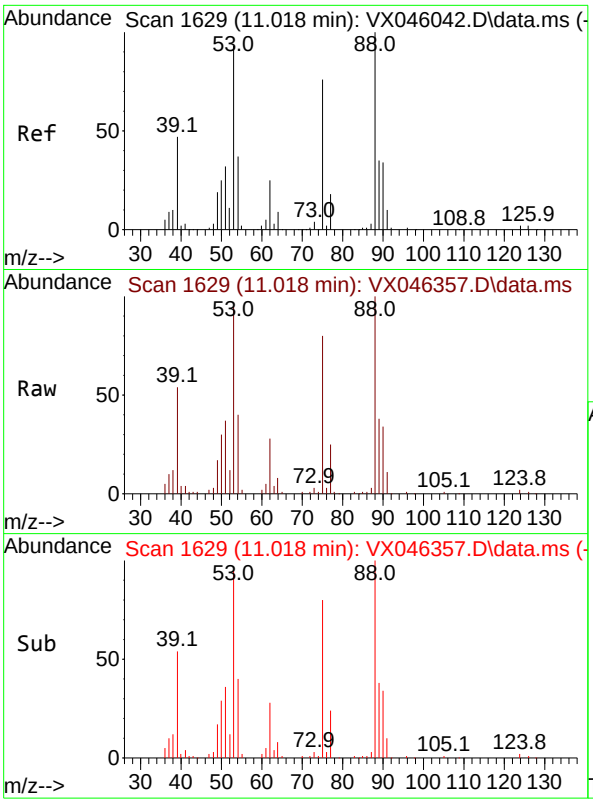


#80
1,3,5-Trimethylbenzene
Concen: 57.551 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion:105 Resp: 214369

Ion	Ratio	Lower	Upper
105	100		
120	45.5	23.1	69.2



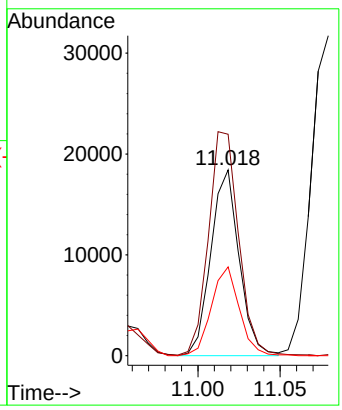


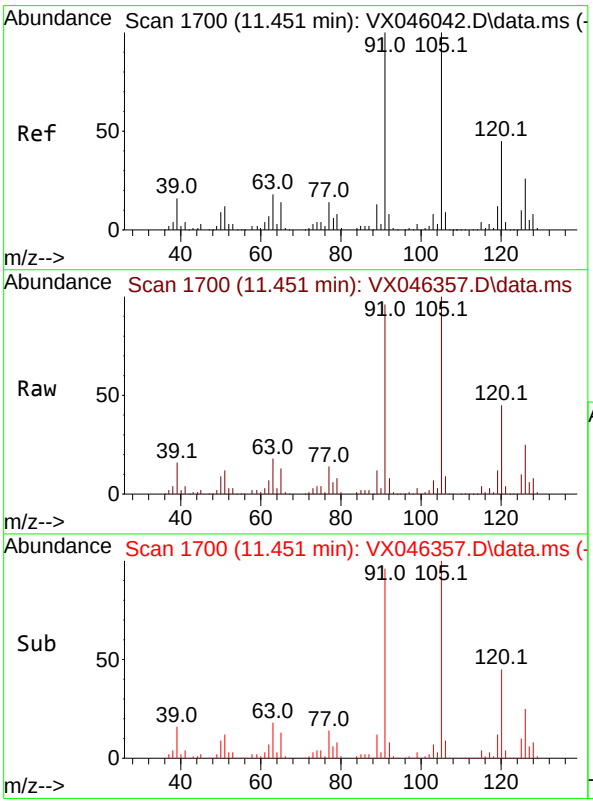
#81
trans-1,4-Dichloro-2-butene
Concen: 52.265 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 75 Resp: 22130

Ion	Ratio	Lower	Upper
75	100		
53	128.1	100.5	150.7
89	47.0	37.0	55.6

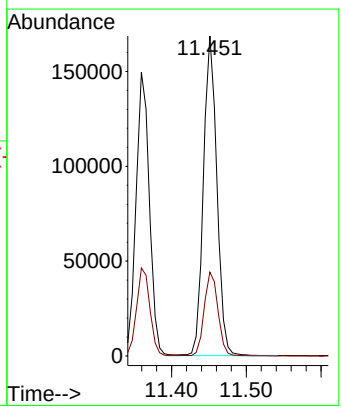


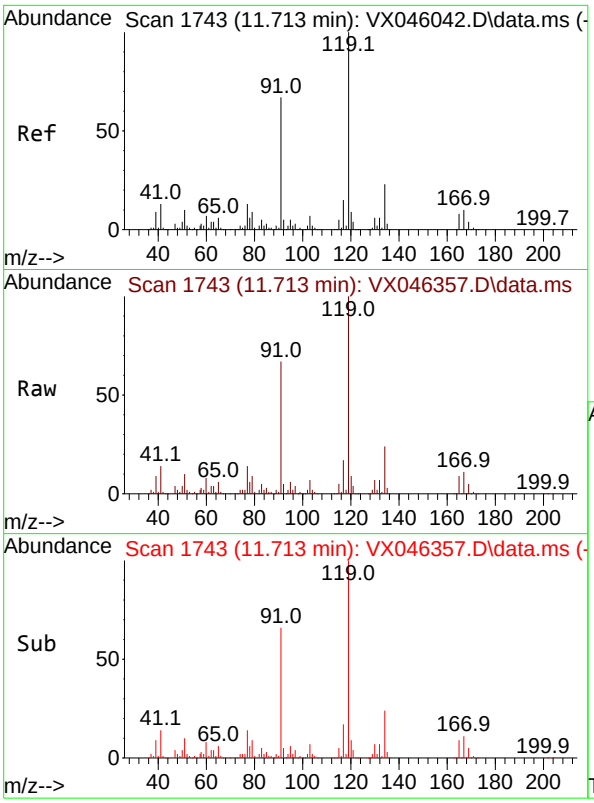


#82
4-Chlorotoluene
Concen: 56.611 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 91 Resp: 209928

Ion	Ratio	Lower	Upper
91	100		
126	26.9	13.3	39.8



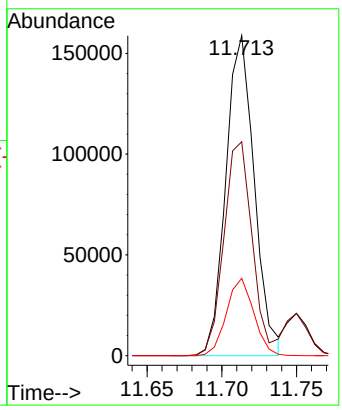


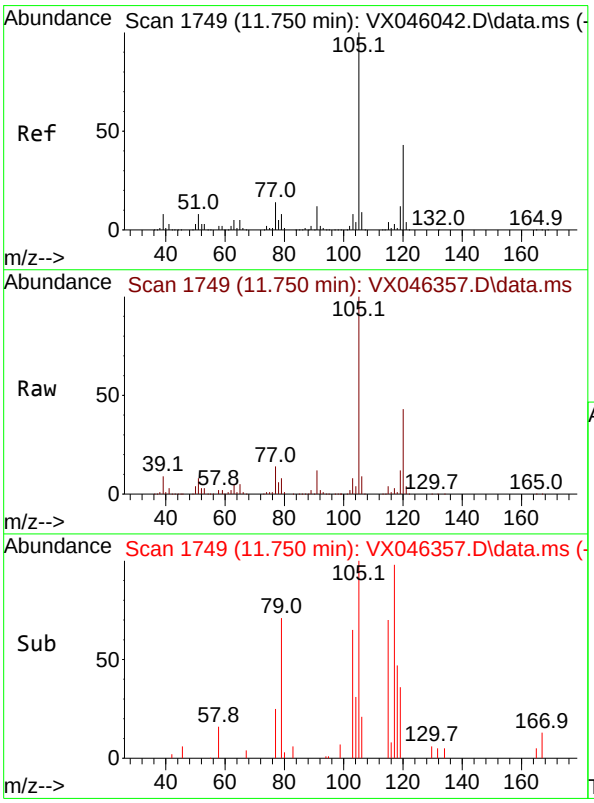
#83
tert-Butylbenzene
Concen: 56.156 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:119 Resp: 210698

Ion	Ratio	Lower	Upper
119	100		
91	65.7	32.9	98.7
134	23.2	11.4	34.1

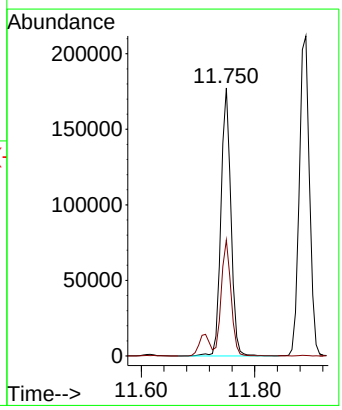


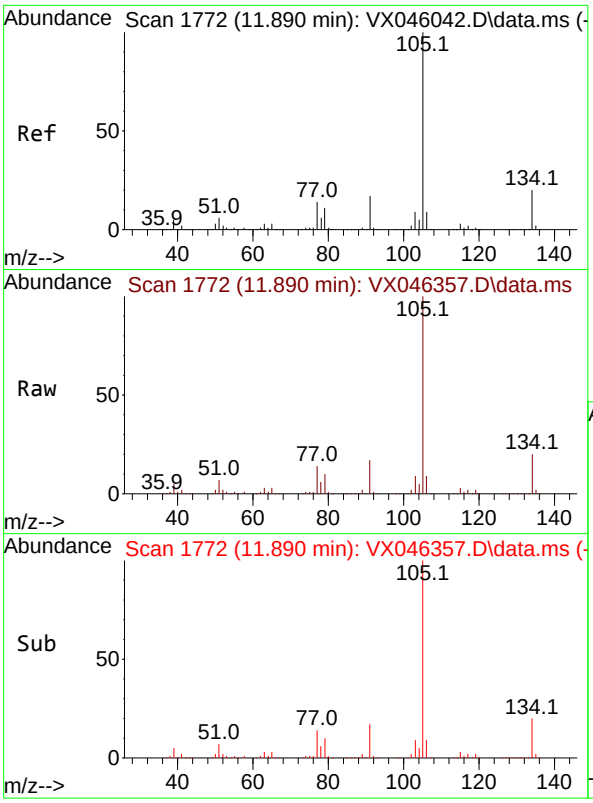


#84
1,2,4-Trimethylbenzene
Concen: 57.033 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion:105 Resp: 215135

Ion	Ratio	Lower	Upper
105	100		
120	42.4	21.2	63.6



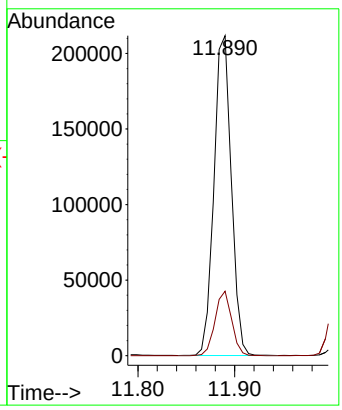


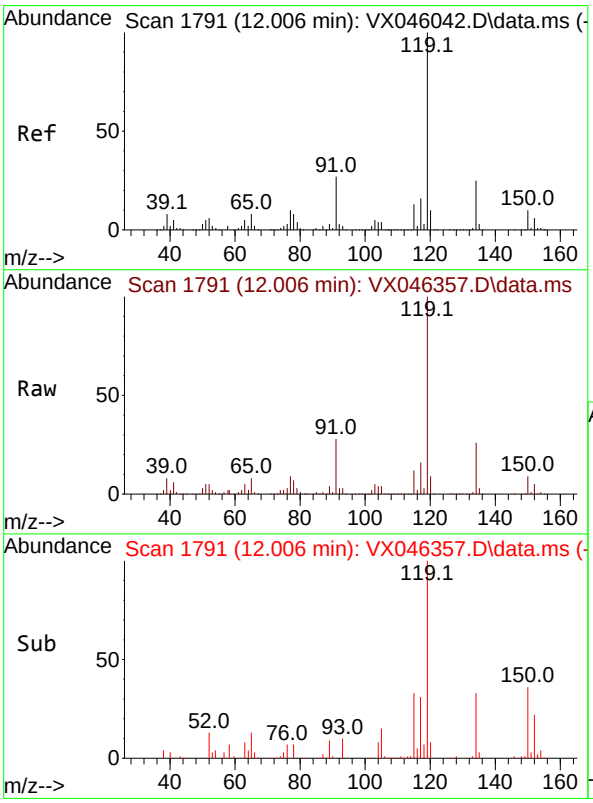
#85
sec-Butylbenzene
Concen: 57.092 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:105 Resp: 263013

Ion	Ratio	Lower	Upper
105	100		
134	19.4	9.7	29.1

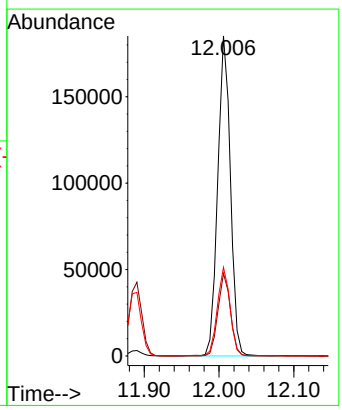


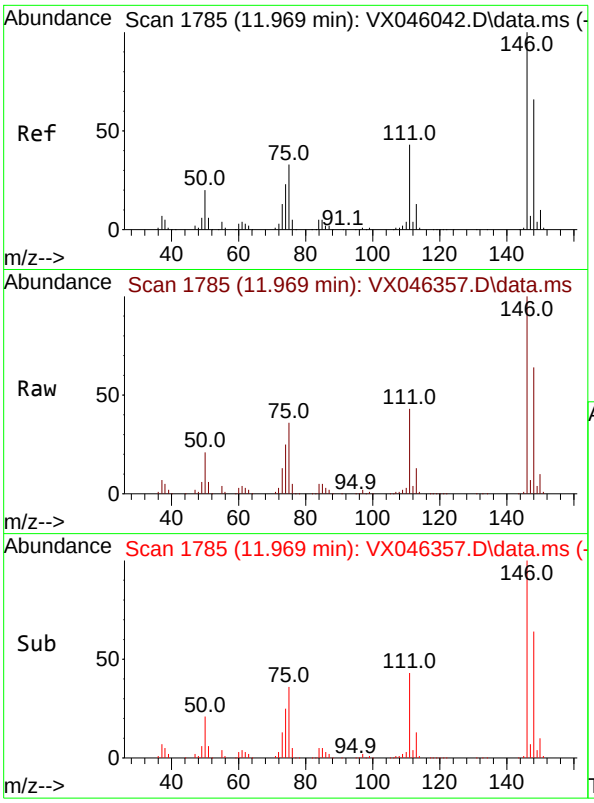


#86
p-Isopropyltoluene
Concen: 57.375 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion:119 Resp: 218175

Ion	Ratio	Lower	Upper
119	100		
134	25.4	12.5	37.5
91	27.5	13.8	41.4



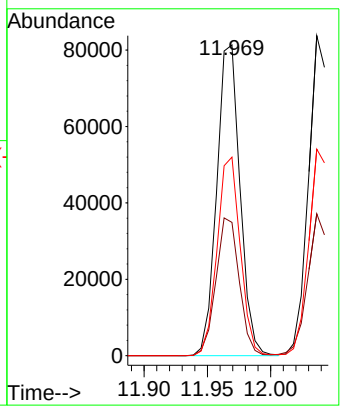


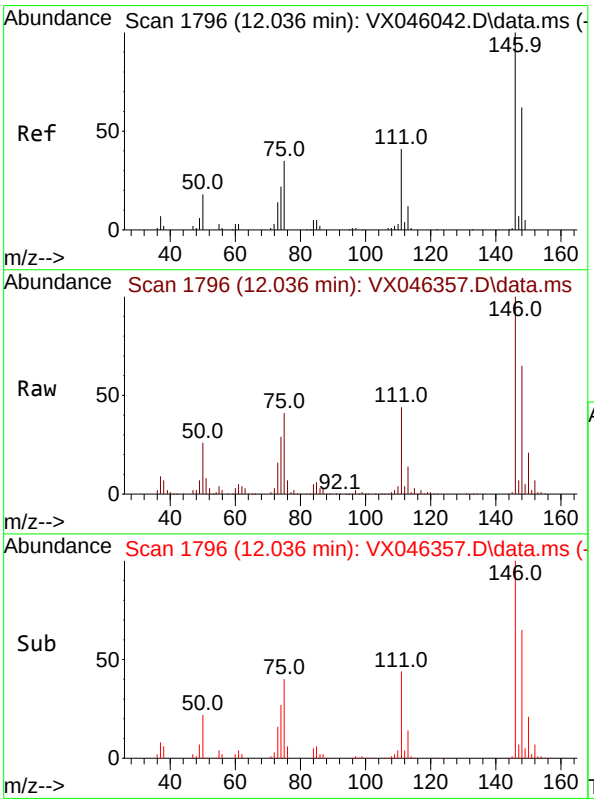
#87
1,3-Dichlorobenzene
Concen: 55.082 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:146 Resp: 104059

Ion	Ratio	Lower	Upper
146	100		
111	44.5	22.1	66.3
148	63.6	32.1	96.5

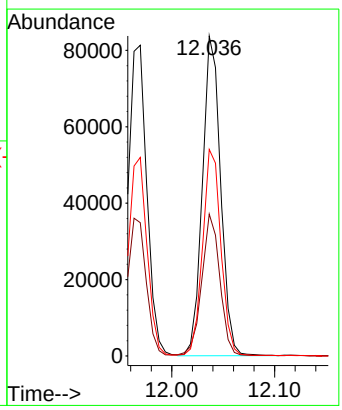


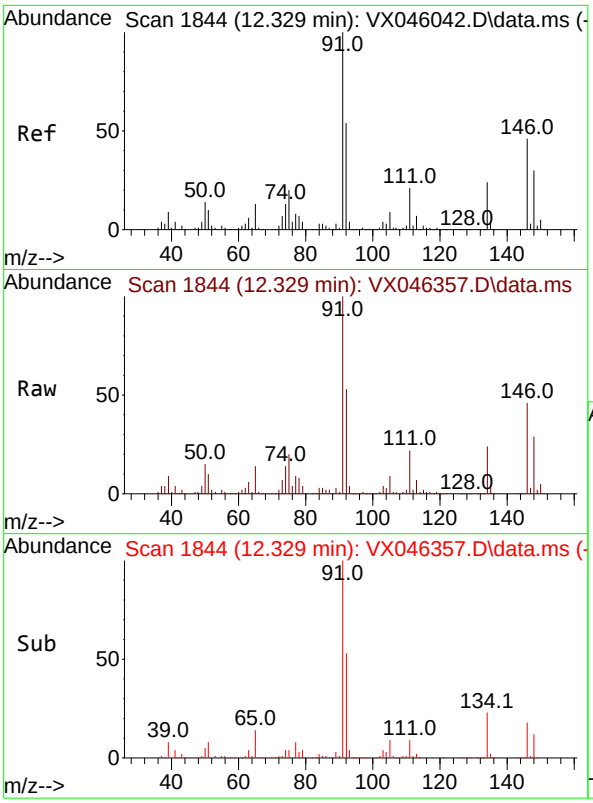


#88
1,4-Dichlorobenzene
Concen: 53.479 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion:146 Resp: 103178

Ion	Ratio	Lower	Upper
146	100		
111	44.0	21.3	63.9
148	65.0	31.9	95.5



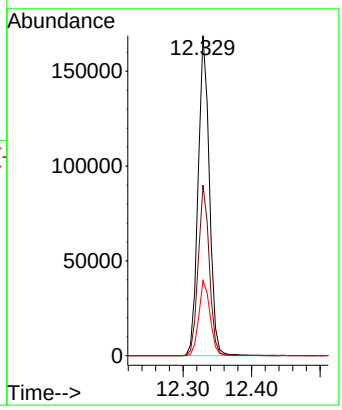


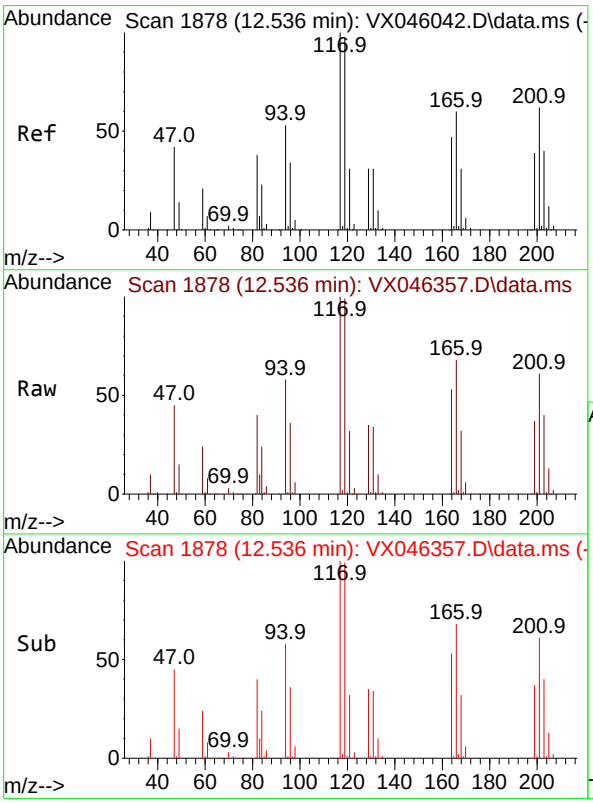
#89
n-Butylbenzene
Concen: 57.905 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 193146

Ion	Ratio	Lower	Upper
91	100		
92	52.5	26.9	80.7
134	23.5	11.8	35.3

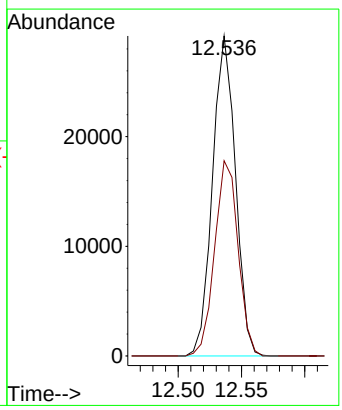


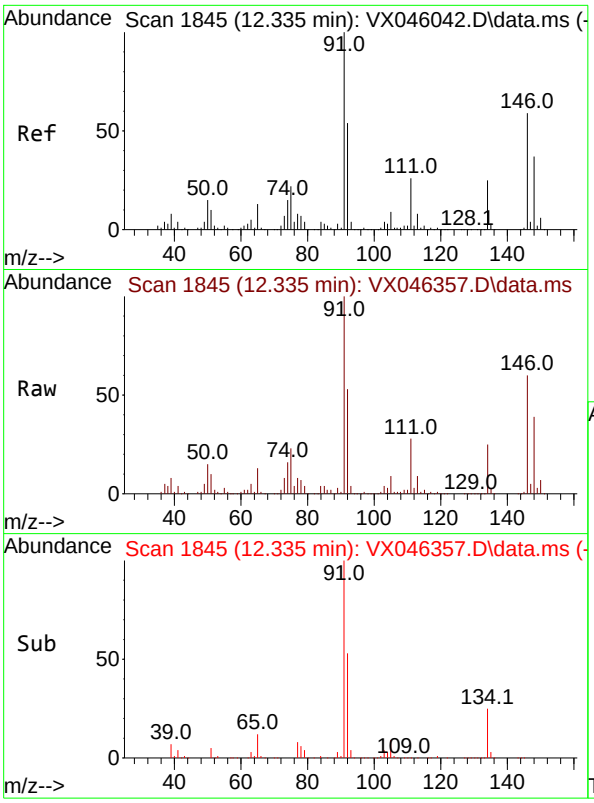


#90
Hexachloroethane
Concen: 54.879 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion:117 Resp: 36765

Ion	Ratio	Lower	Upper
117	100		
201	62.4	31.6	94.7



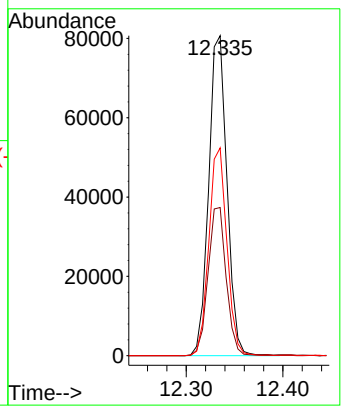


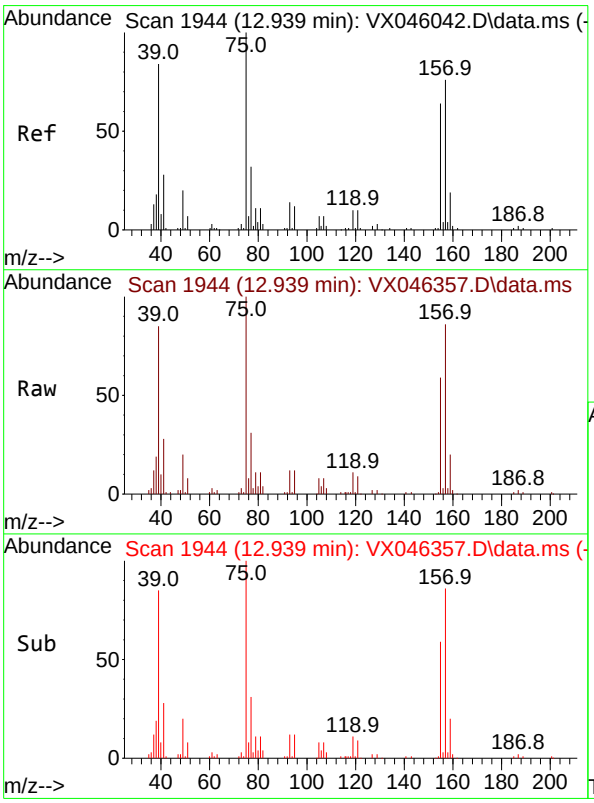
#91
1,2-Dichlorobenzene
Concen: 56.008 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:146 Resp: 106177

Ion	Ratio	Lower	Upper
146	100		
111	46.1	22.4	67.3
148	64.2	31.6	94.8

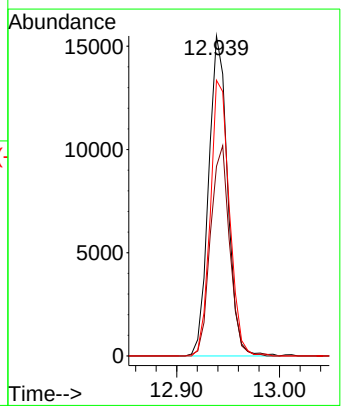


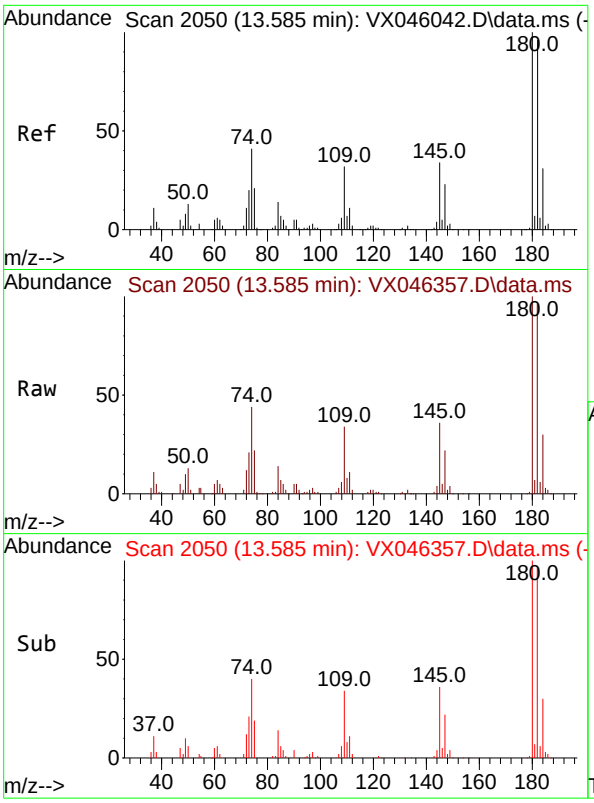


#92
1,2-Dibromo-3-Chloropropane
Concen: 57.261 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion: 75 Resp: 19820

Ion	Ratio	Lower	Upper
75	100		
155	66.4	34.9	104.8
157	86.6	43.8	131.4



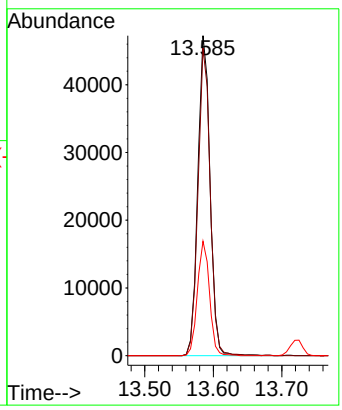


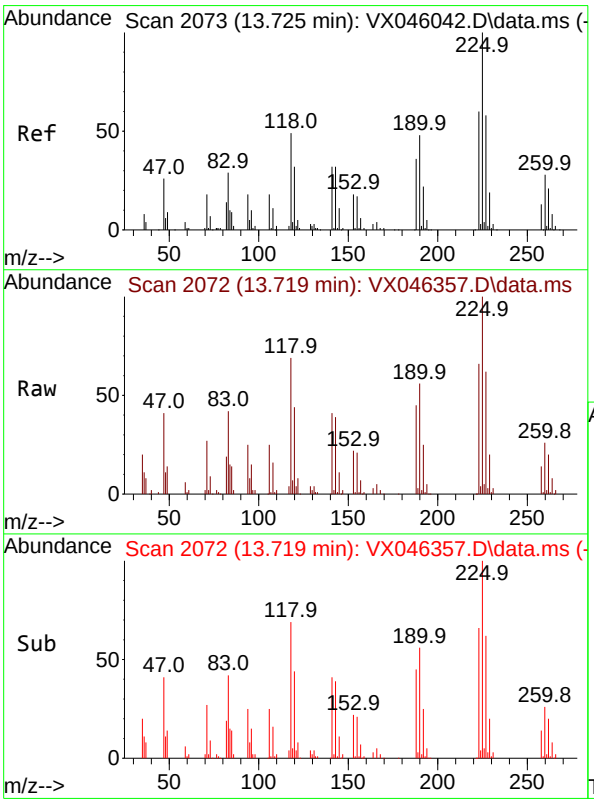
#93
1,2,4-Trichlorobenzene
Concen: 53.962 ug/l
RT: 13.585 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:180 Resp: 58756

Ion	Ratio	Lower	Upper
180	100		
182	95.6	47.9	143.8
145	35.4	17.1	51.2

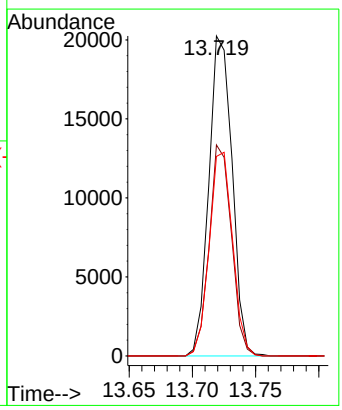


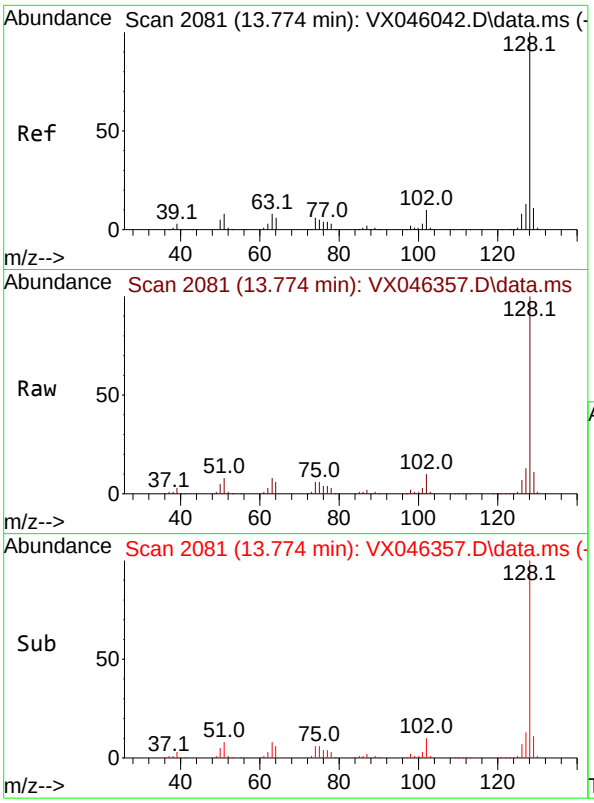


#94
Hexachlorobutadiene
Concen: 54.428 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. -0.006 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion:225 Resp: 25883

Ion	Ratio	Lower	Upper
225	100		
223	63.2	30.8	92.4
227	63.8	30.9	92.7



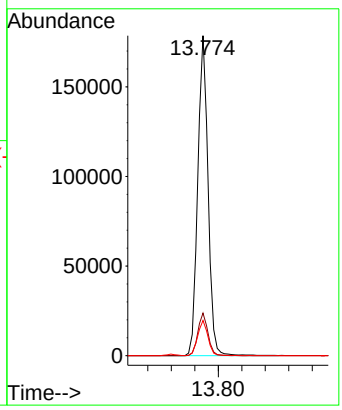


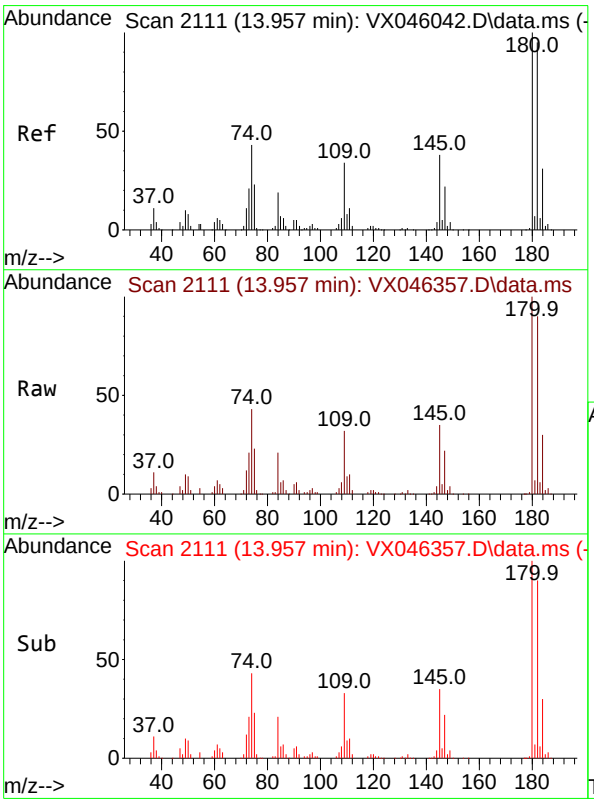
#95
Naphthalene
Concen: 54.381 ug/l
RT: 13.774 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050EC

Tgt Ion:128 Resp: 217170

Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.4	15.6
129	11.0	8.6	13.0

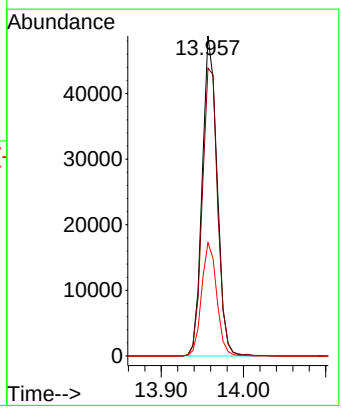




#96
1,2,3-Trichlorobenzene
Concen: 54.454 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VX046357.D
Acq: 23 May 2025 19:55

Tgt Ion:180 Resp: 61179

Ion	Ratio	Lower	Upper
180	100		
182	93.6	47.8	143.3
145	35.9	18.1	54.3



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022253.D
Acq On : 15 May 2025 09:46
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Quant Time: May 16 01:20:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:19:39 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	276170	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	470488	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	385399	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.353	152	174003	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	15118	5.009	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 10.020%#			
35) Dibromofluoromethane	7.634	113	13854	4.933	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 9.860%#			
50) Toluene-d8	10.109	98	57575	5.006	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 10.020%#			
62) 4-Bromofluorobenzene	12.408	95	18328	5.028	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 10.060%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	15071	5.230	ug/l	96
3) Chloromethane	2.068	50	33477	5.523	ug/l	100
4) Vinyl Chloride	2.208	62	34943	5.159	ug/l	96
5) Bromomethane	2.598	94	30561	5.543	ug/l	99
6) Chloroethane	2.739	64	20741	4.923	ug/l	97
7) Trichlorofluoromethane	3.056	101	34641	5.052	ug/l	98
8) Diethyl Ether	3.458	74	8435	5.126	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.824	101	15124	5.081	ug/l	95
10) Methyl Iodide	4.013	142	15449	4.484	ug/l	99
11) Tert butyl alcohol	4.879	59	6159	26.722	ug/l #	100
12) 1,1-Dichloroethene	3.787	96	15064	5.099	ug/l	93
13) Acrolein	3.653	56	9366	27.796	ug/l	94
14) Allyl chloride	4.385	41	24537	4.737	ug/l	94
15) Acrylonitrile	5.061	53	17036	25.125	ug/l	100
16) Acetone	3.879	43	17340	30.639	ug/l	91
17) Carbon Disulfide	4.110	76	48817	5.068	ug/l	99
18) Methyl Acetate	4.391	43	7769	4.511	ug/l #	76
19) Methyl tert-butyl Ether	5.128	73	40392	4.959	ug/l	97
20) Methylene Chloride	4.610	84	22002	6.016	ug/l	93
21) trans-1,2-Dichloroethene	5.110	96	15943	4.889	ug/l	85
22) Diisopropyl ether	6.025	45	53760	4.915	ug/l	97
23) Vinyl Acetate	5.964	43	167594	25.361	ug/l	96
24) 1,1-Dichloroethane	5.921	63	30712	5.026	ug/l	97
25) 2-Butanone	6.903	43	24805	26.203	ug/l	91
26) 2,2-Dichloropropane	6.884	77	27440	5.048	ug/l	97
27) cis-1,2-Dichloroethene	6.896	96	18276	4.857	ug/l	98
28) Bromochloromethane	7.250	49	12774	4.901	ug/l	98
29) Tetrahydrofuran	7.268	42	14502	23.811	ug/l	93
30) Chloroform	7.421	83	28505	4.863	ug/l	94
31) Cyclohexane	7.701	56	35904	5.880	ug/l #	89
32) 1,1,1-Trichloroethane	7.622	97	27801	5.170	ug/l	96
36) 1,1-Dichloropropene	7.841	75	22314	4.824	ug/l	97
37) Ethyl Acetate	6.994	43	11910	5.352	ug/l	96
38) Carbon Tetrachloride	7.823	117	22826	4.768	ug/l	98
39) Methylcyclohexane	9.109	83	31218	5.024	ug/l	98
40) Benzene	8.085	78	64430	4.699	ug/l	94

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022253.D
Acq On : 15 May 2025 09:46
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Quant Time: May 16 01:20:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:19:39 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.274	41	16995	10.436	ug/l	#	43
42) 1,2-Dichloroethane	8.158	62	17934	4.837	ug/l		97
43) Isopropyl Acetate	8.201	43	23979	4.941	ug/l		99
44) Trichloroethene	8.872	130	16852	4.943	ug/l		95
45) 1,2-Dichloropropane	9.146	63	15855	4.796	ug/l		95
46) Dibromomethane	9.238	93	8879	4.980	ug/l		92
47) Bromodichloromethane	9.427	83	21906	4.736	ug/l	#	95
48) Methyl methacrylate	9.225	41	10729	4.727	ug/l		98
49) 1,4-Dioxane	9.244	88	1962	97.404	ug/l	#	78
51) 4-Methyl-2-Pentanone	10.000	43	55880	23.464	ug/l		97
52) Toluene	10.170	92	41001	4.722	ug/l		99
53) t-1,3-Dichloropropene	10.396	75	21842	4.839	ug/l		100
54) cis-1,3-Dichloropropene	9.859	75	24609	4.758	ug/l		97
55) 1,1,2-Trichloroethane	10.573	97	11333	4.964	ug/l	#	89
56) Ethyl methacrylate	10.438	69	17420	4.898	ug/l		98
57) 1,3-Dichloropropane	10.725	76	19684	4.852	ug/l		98
58) 2-Chloroethyl Vinyl ether	9.713	63	33215	20.807	ug/l		100
59) 2-Hexanone	10.762	43	39307	24.617	ug/l		100
60) Dibromochloromethane	10.914	129	13908	4.693	ug/l		98
61) 1,2-Dibromoethane	11.018	107	10391	4.883	ug/l		94
64) Tetrachloroethene	10.652	164	18255	5.125	ug/l		96
65) Chlorobenzene	11.444	112	42844	4.927	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.518	131	14385	4.812	ug/l		99
67) Ethyl Benzene	11.524	91	77606	4.766	ug/l		99
68) m/p-Xylenes	11.633	106	57721	9.407	ug/l		99
69) o-Xylene	11.957	106	27130	4.673	ug/l		99
70) Styrene	11.975	104	45556	4.652	ug/l		99
71) Bromoform	12.133	173	7799	4.834	ug/l	#	94
73) Isopropylbenzene	12.255	105	72325	5.017	ug/l		98
74) N-amyl acetate	12.072	43	20793	5.043	ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.511	83	11422	5.152	ug/l		99
76) 1,2,3-Trichloropropane	12.560	75	17315	5.646	ug/l	#	100
77) Bromobenzene	12.536	156	15441	5.015	ug/l		97
78) n-propylbenzene	12.597	91	87533	5.034	ug/l		98
79) 2-Chlorotoluene	12.682	91	47245	4.944	ug/l		97
80) 1,3,5-Trimethylbenzene	12.737	105	59031	5.073	ug/l		98
81) trans-1,4-Dichloro-2-b...	12.310	75	4676	5.373	ug/l		97
82) 4-Chlorotoluene	12.780	91	48737	4.959	ug/l		98
83) tert-Butylbenzene	12.999	119	52841	5.109	ug/l		99
84) 1,2,4-Trimethylbenzene	13.048	105	55488	4.804	ug/l		97
85) sec-Butylbenzene	13.176	105	76384	4.975	ug/l		97
86) p-Isopropyltoluene	13.292	119	62608	4.849	ug/l		99
87) 1,3-Dichlorobenzene	13.292	146	30564	4.863	ug/l		99
88) 1,4-Dichlorobenzene	13.371	146	30610	5.063	ug/l		96
89) n-Butylbenzene	13.621	91	59485	4.869	ug/l		99
90) Hexachloroethane	13.883	117	13445	5.158	ug/l		96
91) 1,2-Dichlorobenzene	13.664	146	26556	5.030	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	14.279	75	1865	5.217	ug/l		98
93) 1,2,4-Trichlorobenzene	14.926	180	14961	4.906	ug/l		94
94) Hexachlorobutadiene	15.029	225	8887	5.226	ug/l		99
95) Naphthalene	15.151	128	29654	5.124	ug/l		98
96) 1,2,3-Trichlorobenzene	15.334	180	13097	5.063	ug/l		97

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022253.D
Acq On : 15 May 2025 09:46
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Quant Time: May 16 01:20:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:19:39 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

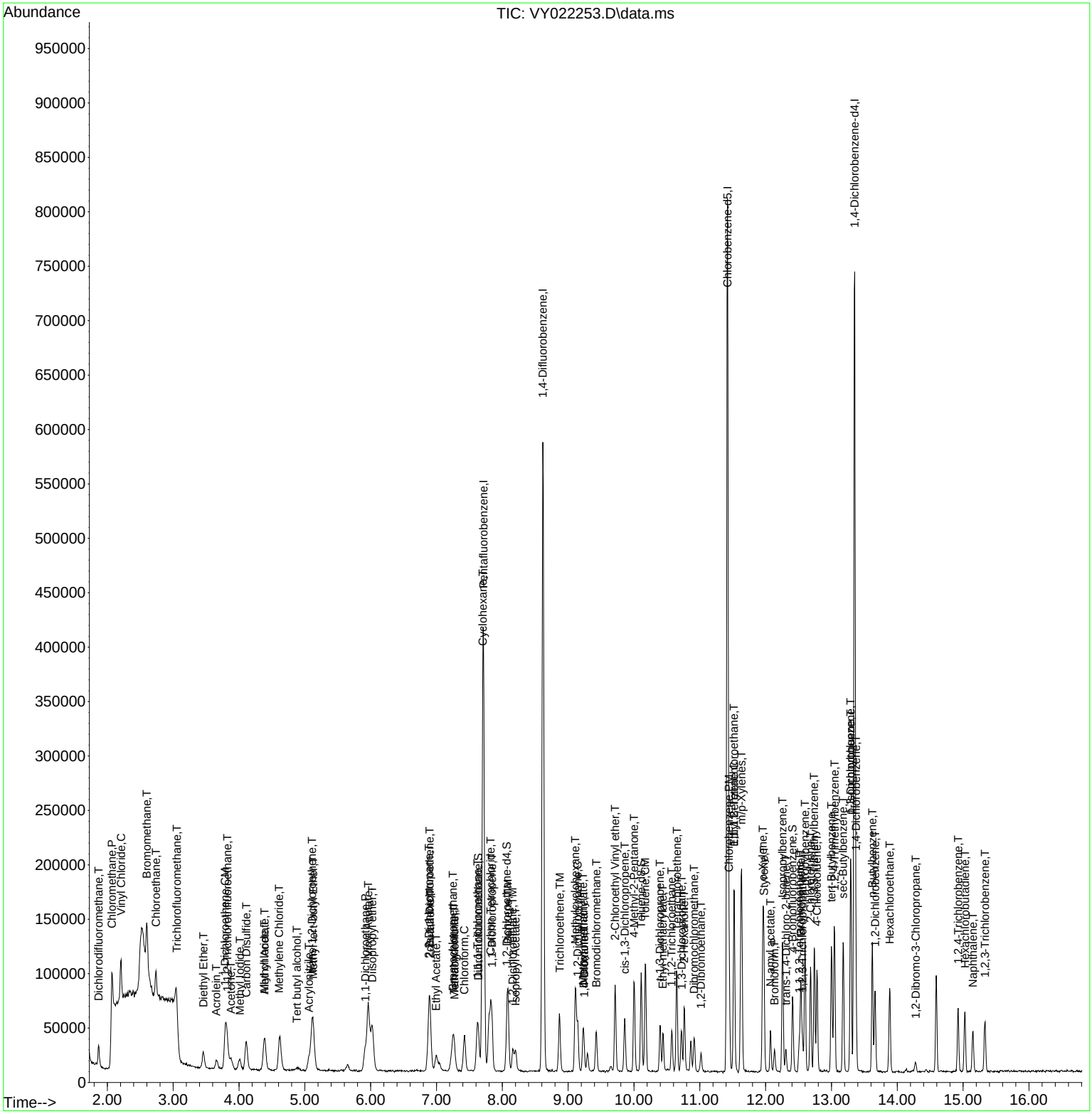
(#) = qualifier out of range (m) = manual integration (+) = signals summed

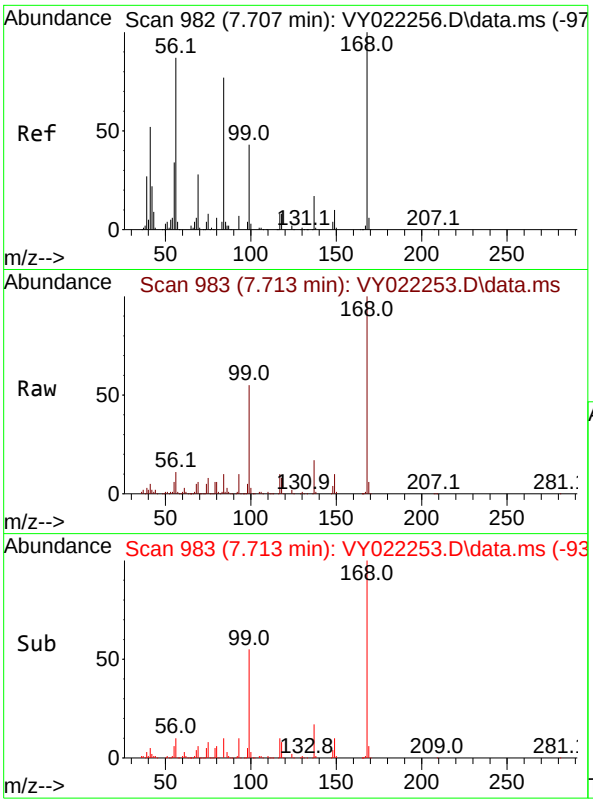
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022253.D
Acq On : 15 May 2025 09:46
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Quant Time: May 16 01:20:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:19:39 2025
Response via : Initial Calibration



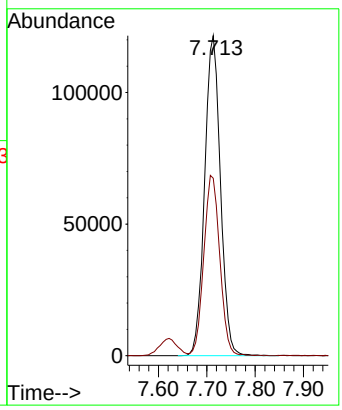


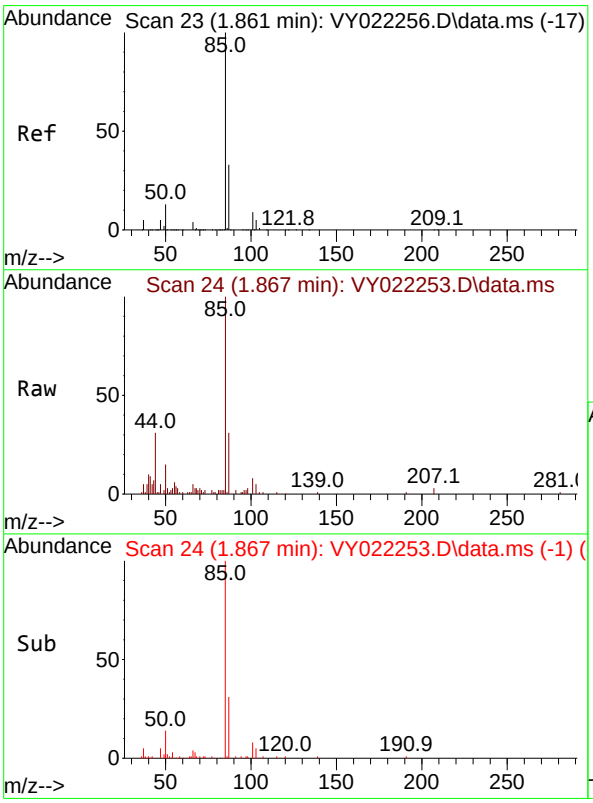
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion:168 Resp: 276170

Ion	Ratio	Lower	Upper
168	100		
99	55.4	44.2	66.4

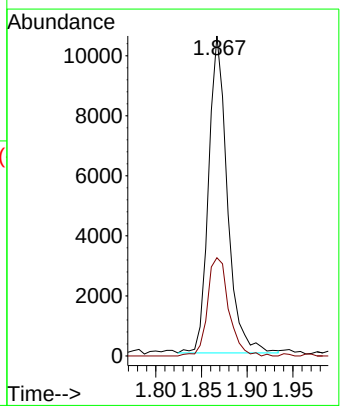


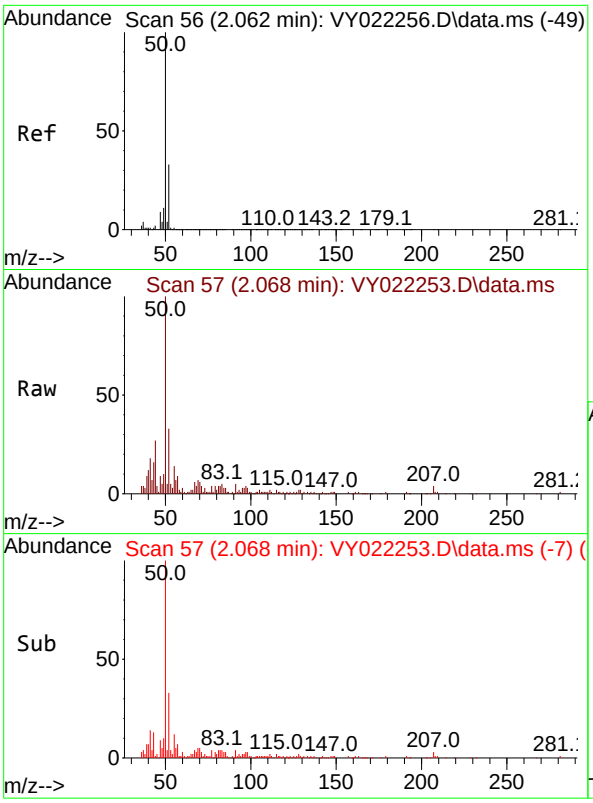


#2
Dichlorodifluoromethane
Concen: 5.230 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 85 Resp: 15071

Ion	Ratio	Lower	Upper
85	100		
87	31.0	16.5	49.5



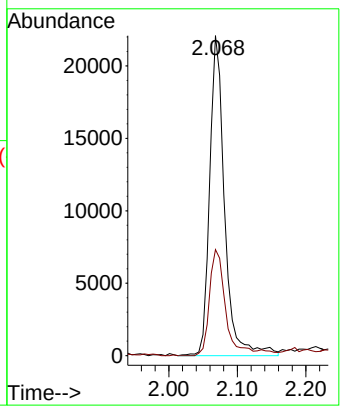


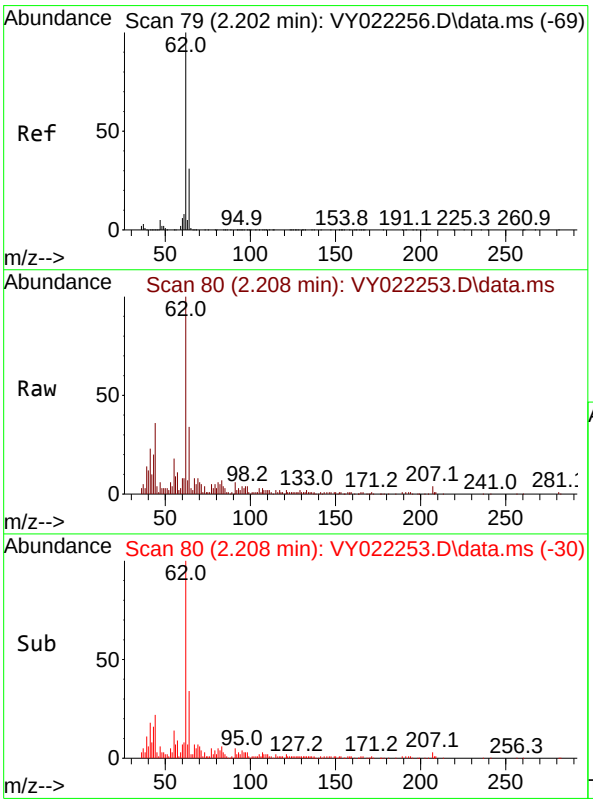
#3
Chloromethane
Concen: 5.523 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 50 Resp: 33477

Ion	Ratio	Lower	Upper
50	100		
52	33.2	26.5	39.7

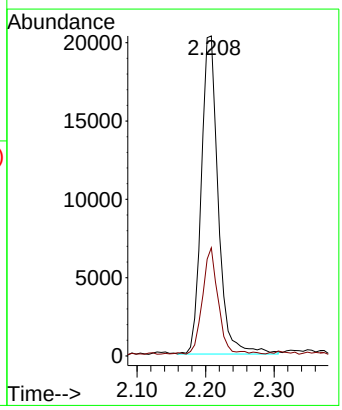


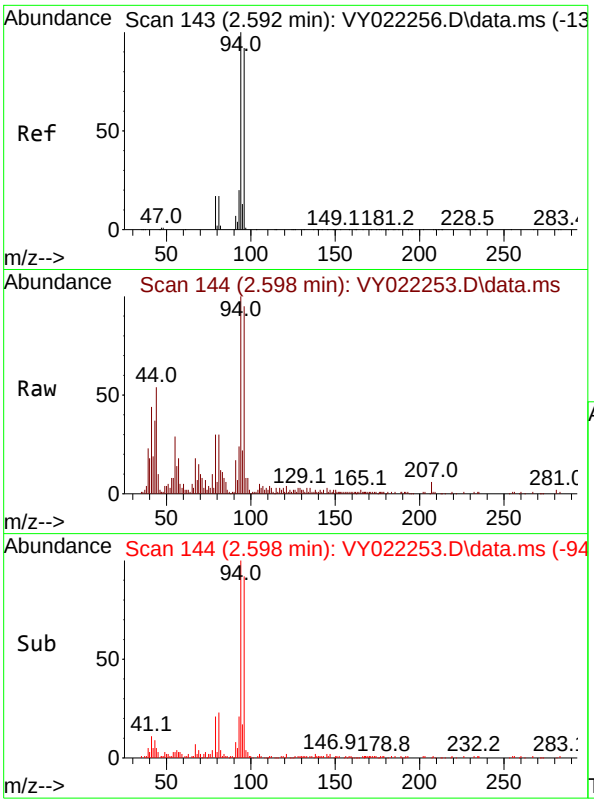


#4
Vinyl Chloride
Concen: 5.159 ug/l
RT: 2.208 min Scan# 80
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 62 Resp: 34943

Ion	Ratio	Lower	Upper
62	100		
64	33.0	24.5	36.7



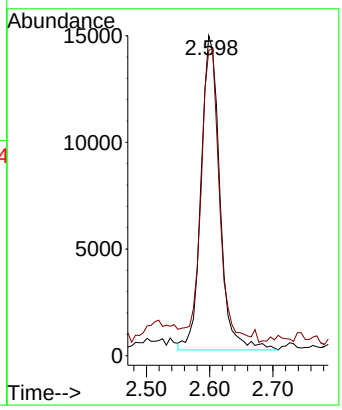


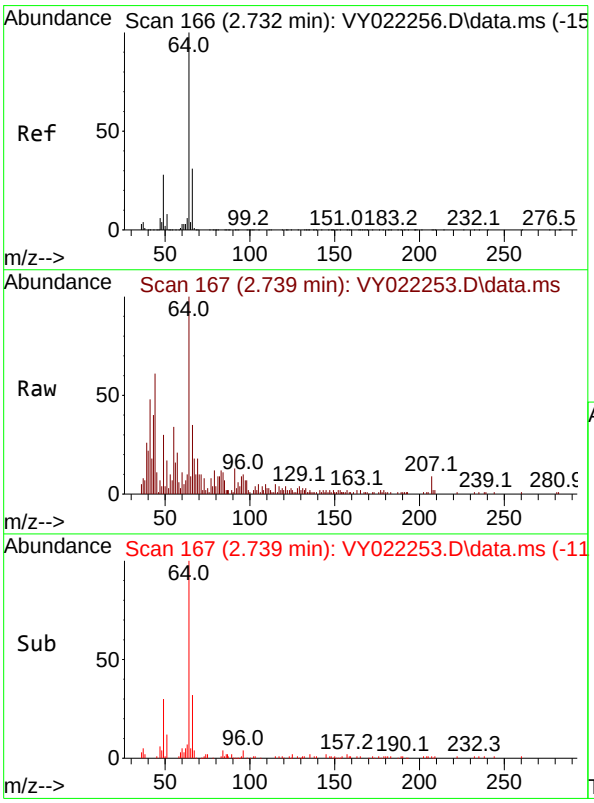
#5
Bromomethane
Concen: 5.543 ug/l
RT: 2.598 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 94 Resp: 30561

Ion	Ratio	Lower	Upper
94	100		
96	90.7	73.4	110.0

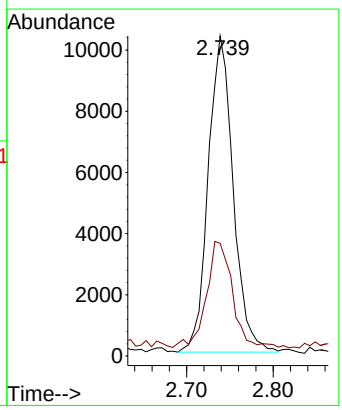


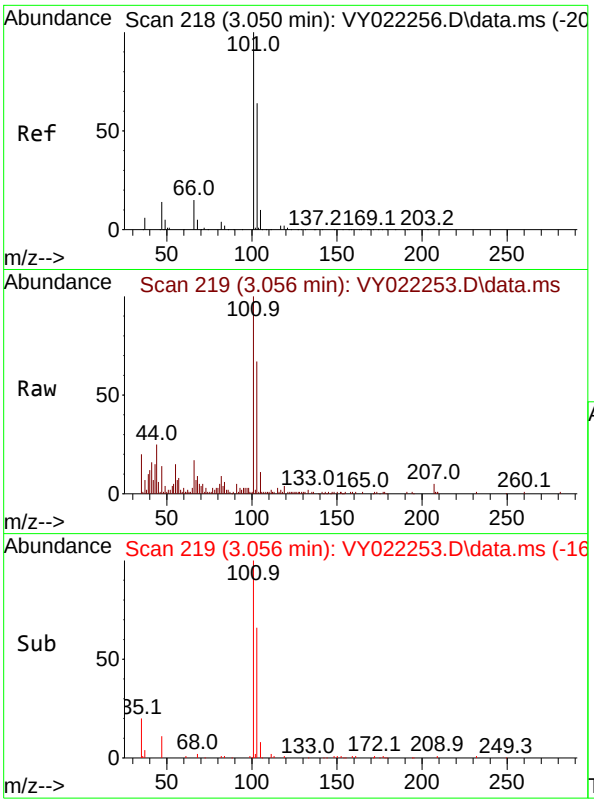


#6
Chloroethane
Concen: 4.923 ug/l
RT: 2.739 min Scan# 167
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 64 Resp: 20741

Ion	Ratio	Lower	Upper
64	100		
66	32.8	24.8	37.2



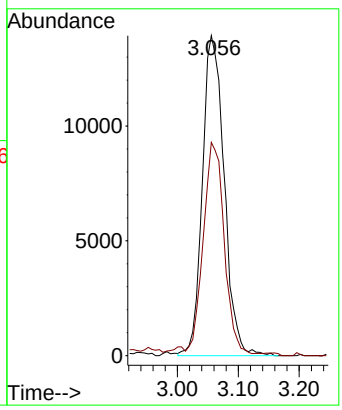


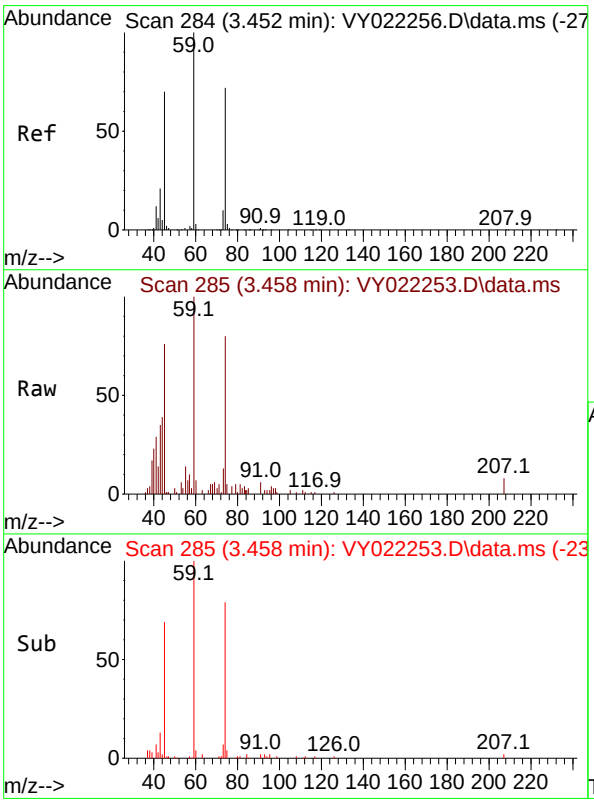
#7
Trichlorofluoromethane
Concen: 5.052 ug/l
RT: 3.056 min Scan# 21
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion:101 Resp: 34641

Ion	Ratio	Lower	Upper
101	100		
103	66.0	51.7	77.5

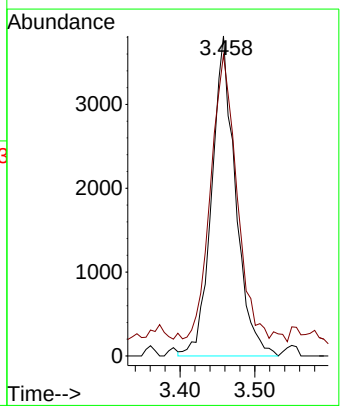


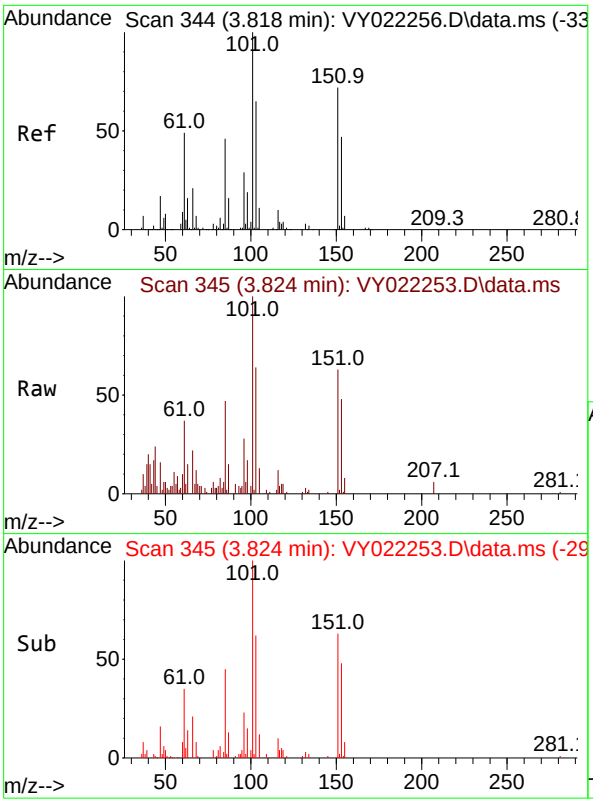


#8
Diethyl Ether
Concen: 5.126 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 74 Resp: 8435

Ion	Ratio	Lower	Upper
74	100		
45	96.3	48.6	145.8



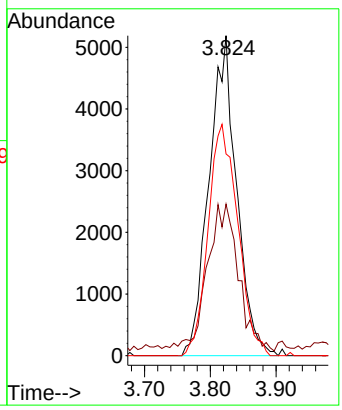


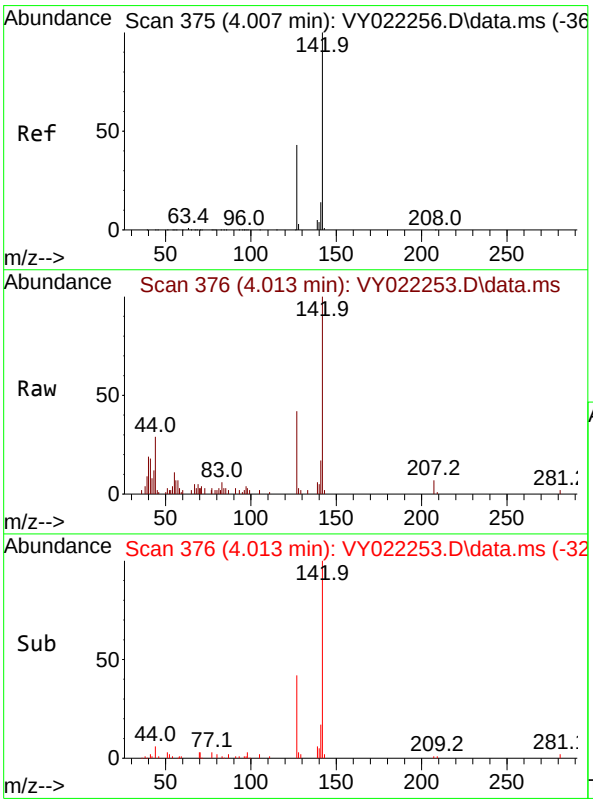
#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.081 ug/l
RT: 3.824 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion:101 Resp: 15124

Ion	Ratio	Lower	Upper
101	100		
85	52.5	38.6	58.0
151	78.0	59.7	89.5

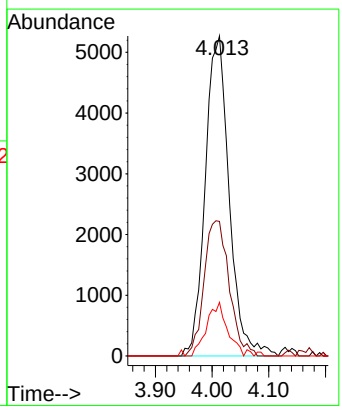


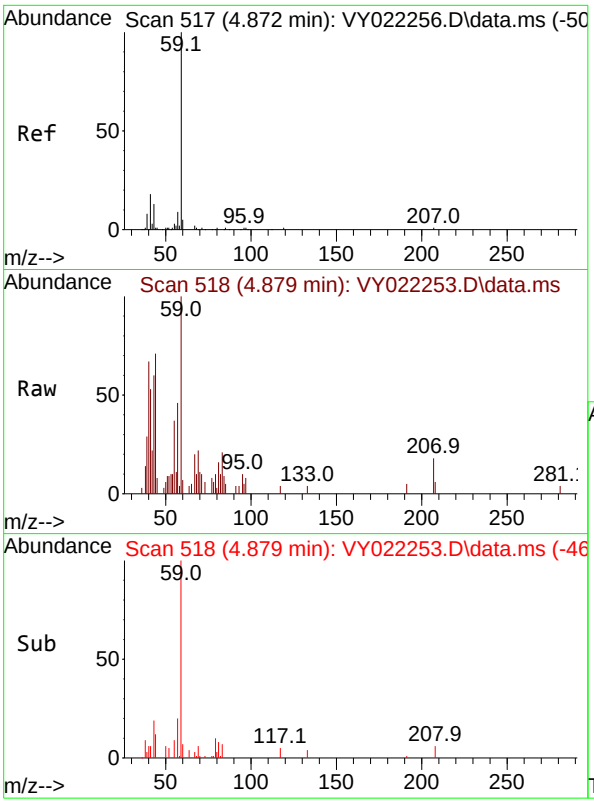


#10
Methyl Iodide
Concen: 4.484 ug/l
RT: 4.013 min Scan# 376
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion:142 Resp: 15449

Ion	Ratio	Lower	Upper
142	100		
127	44.4	35.7	53.5
141	14.4	11.1	16.7



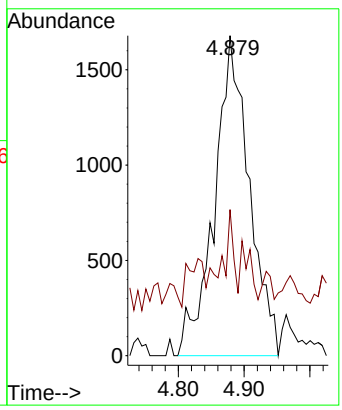


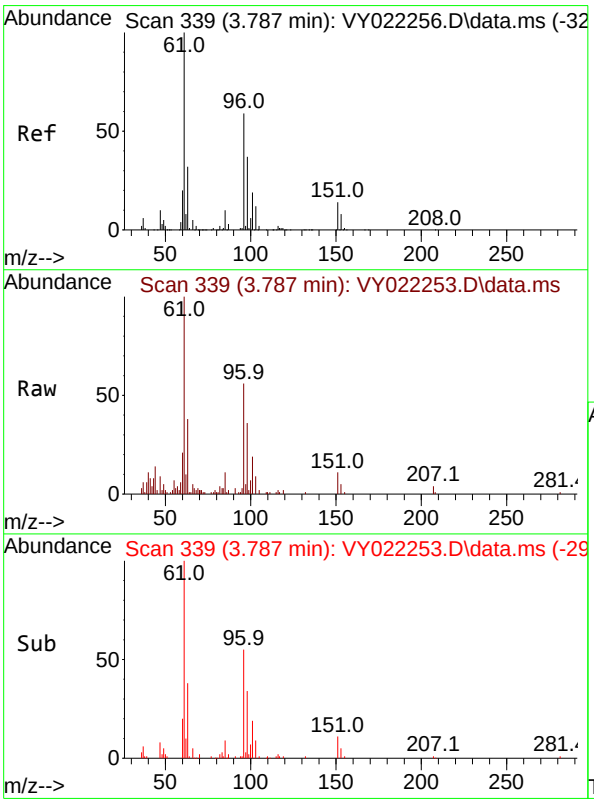
#11
Tert butyl alcohol
Concen: 26.722 ug/l
RT: 4.879 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 59 Resp: 6159

Ion	Ratio	Lower	Upper
59	100		
57	5.4	0.0	0.0#

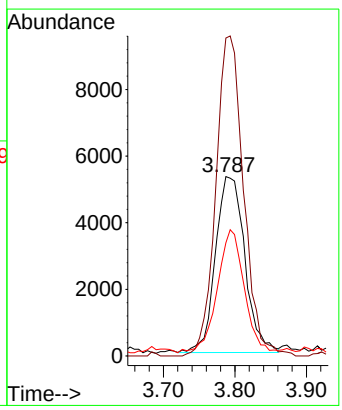


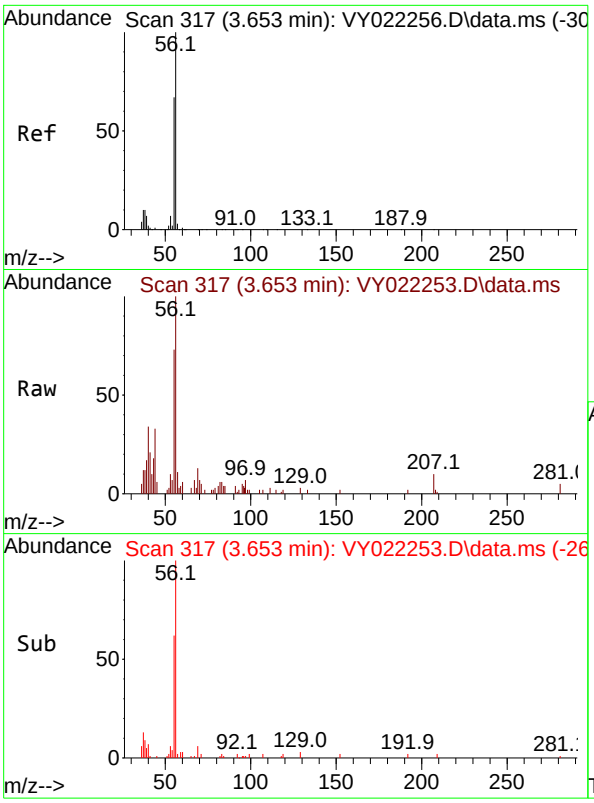


#12
1,1-Dichloroethene
Concen: 5.099 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.000 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 96 Resp: 15064

Ion	Ratio	Lower	Upper
96	100		
61	180.8	134.9	202.3
98	62.6	49.9	74.9



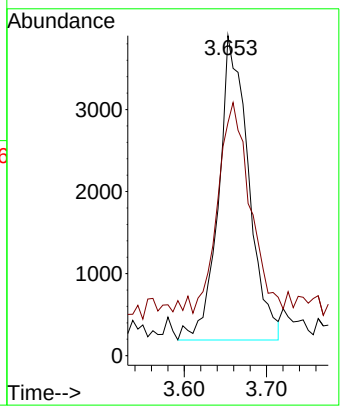


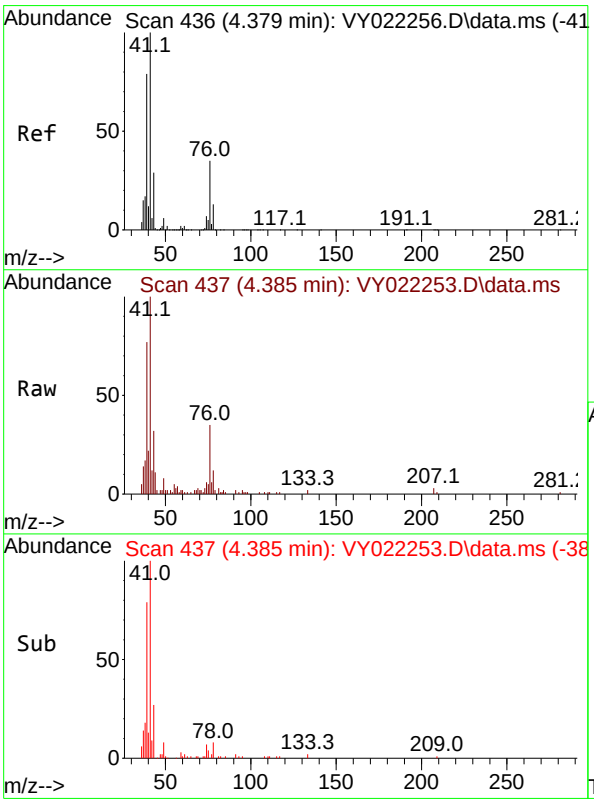
#13
Acrolein
Concen: 27.796 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 56 Resp: 9366

Ion	Ratio	Lower	Upper
56	100		
55	74.6	55.6	83.4

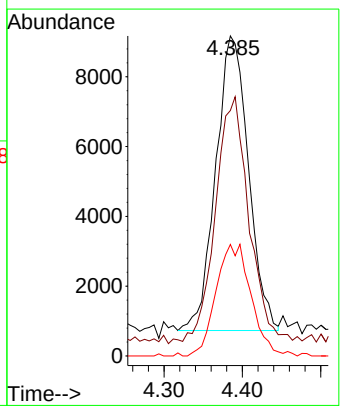


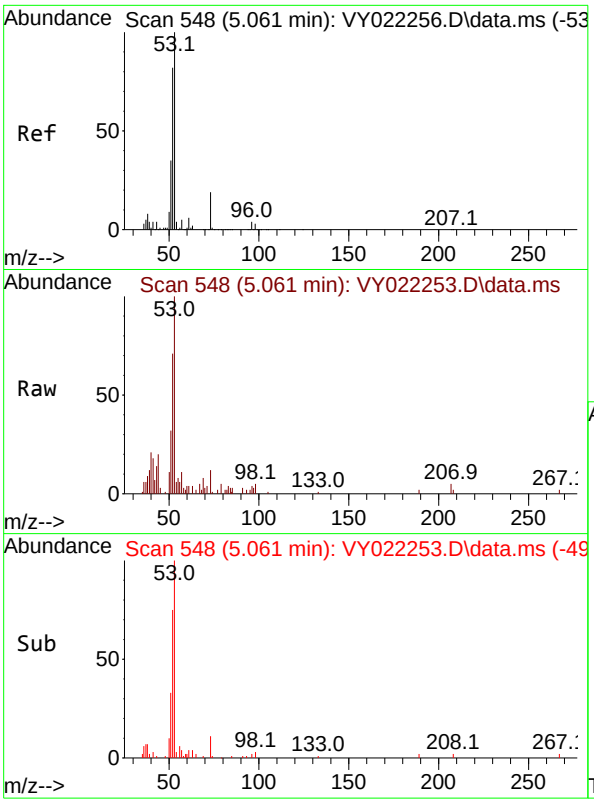


#14
Allyl chloride
Concen: 4.737 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 41 Resp: 24537

Ion	Ratio	Lower	Upper
41	100		
39	83.9	63.4	95.0
76	40.5	29.5	44.3



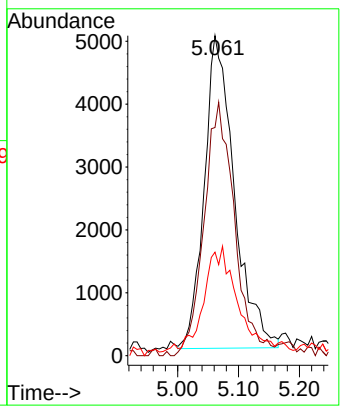


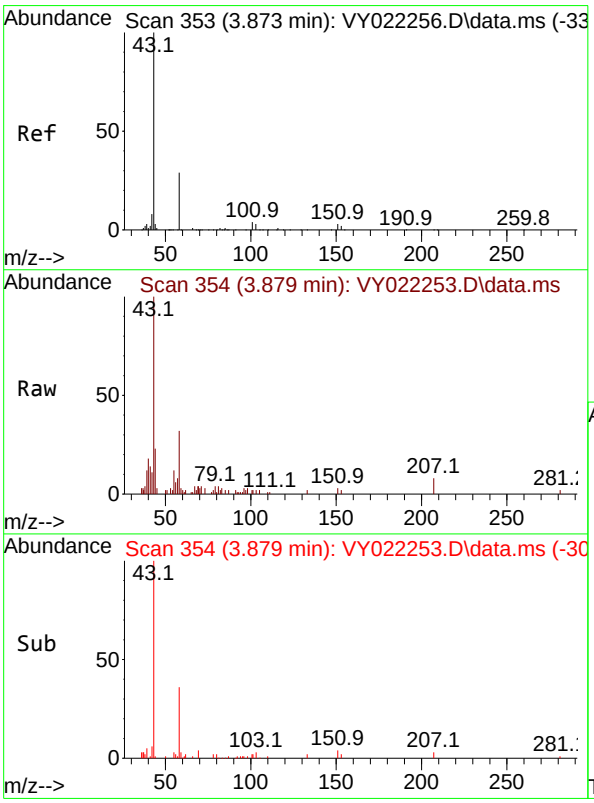
#15
Acrylonitrile
Concen: 25.125 ug/l
RT: 5.061 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 53 Resp: 17036

Ion	Ratio	Lower	Upper
53	100		
52	82.3	66.1	99.1
51	38.0	30.0	45.0

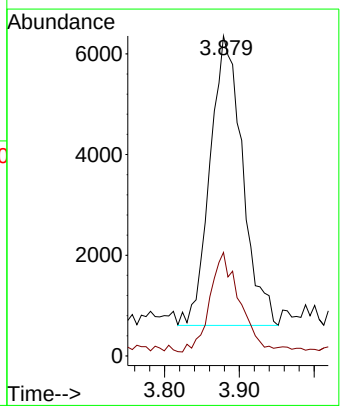


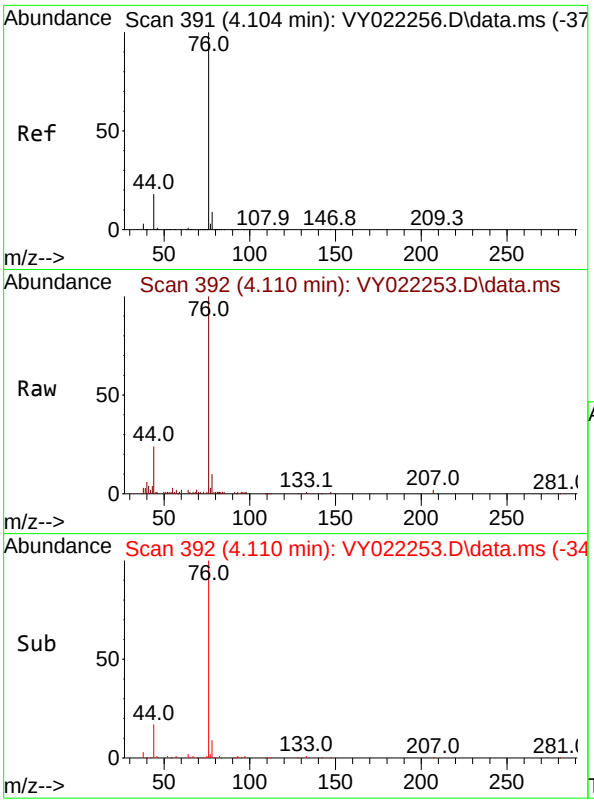


#16
Acetone
Concen: 30.639 ug/l
RT: 3.879 min Scan# 354
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 43 Resp: 17340

Ion	Ratio	Lower	Upper
43	100		
58	34.3	23.6	35.4



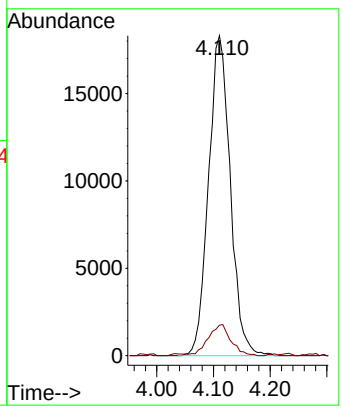


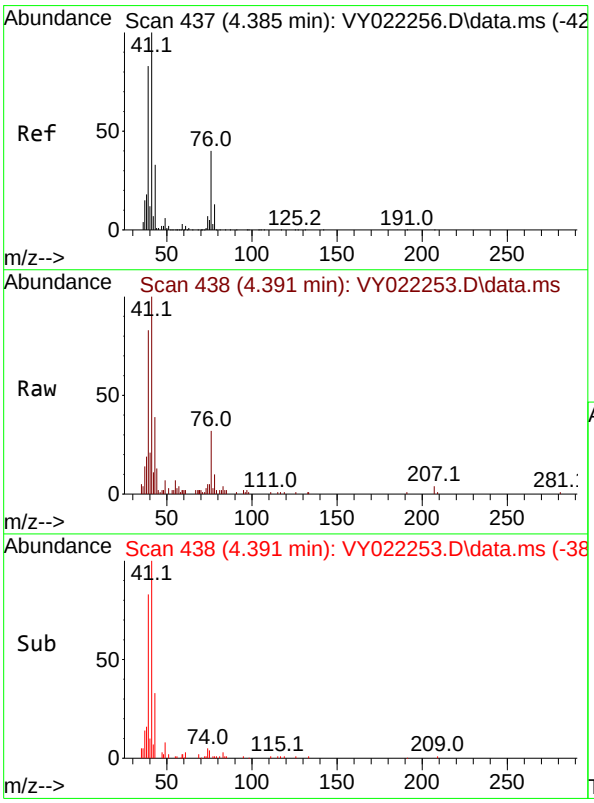
#17
Carbon Disulfide
Concen: 5.068 ug/l
RT: 4.110 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 76 Resp: 48817

Ion	Ratio	Lower	Upper
76	100		
78	9.3	7.2	10.8

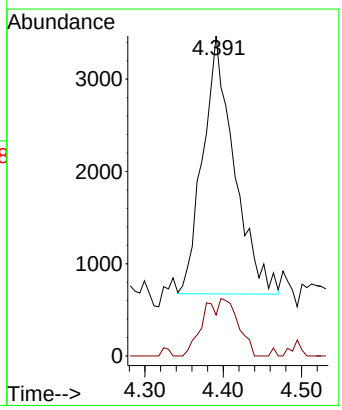


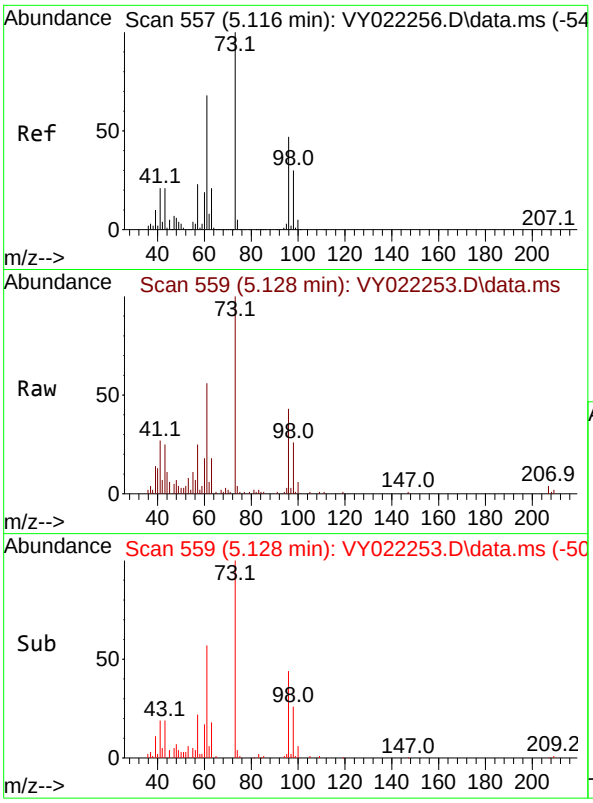


#18
Methyl Acetate
Concen: 4.511 ug/l
RT: 4.391 min Scan# 438
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 43 Resp: 7769

Ion	Ratio	Lower	Upper
43	100		
74	11.0	18.2	27.4#



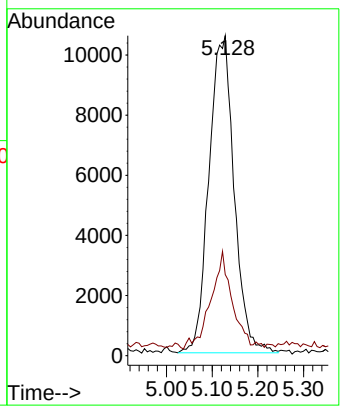


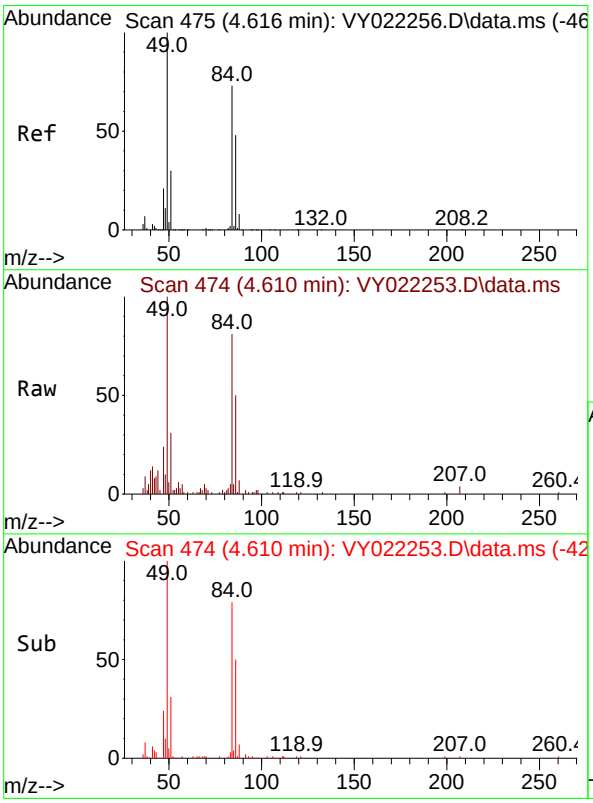
#19
Methyl tert-butyl Ether
Concen: 4.959 ug/l
RT: 5.128 min Scan# 5
Delta R.T. 0.012 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 73 Resp: 40392

Ion	Ratio	Lower	Upper
73	100		
57	22.0	18.6	28.0

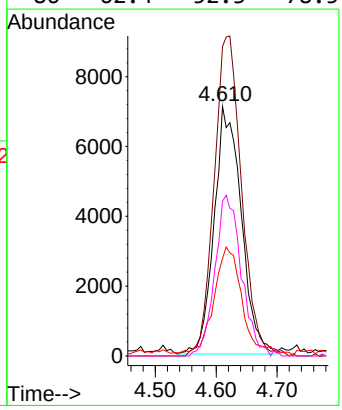


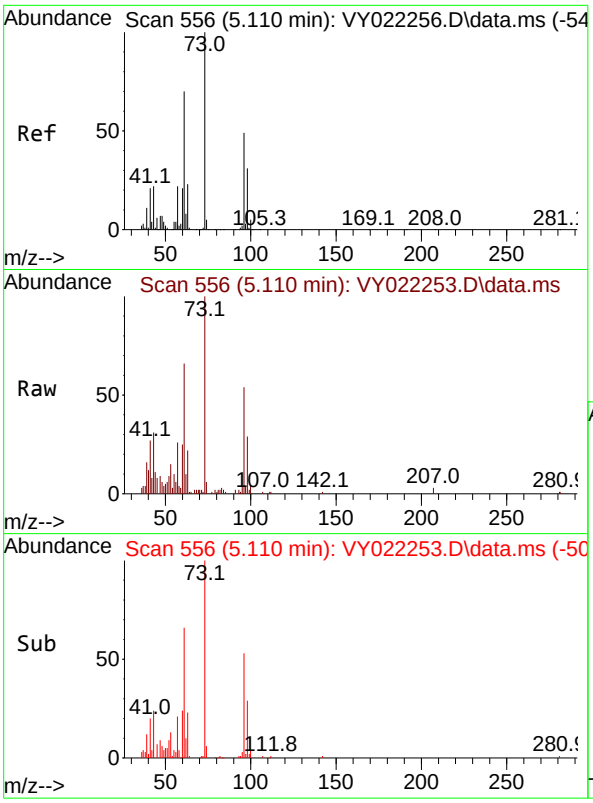


#20
Methylene Chloride
Concen: 6.016 ug/l
RT: 4.610 min Scan# 474
Delta R.T. -0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 84 Resp: 22002

Ion	Ratio	Lower	Upper
84	100		
49	125.0	109.6	164.4
51	38.1	32.4	48.6
86	62.4	52.3	78.5



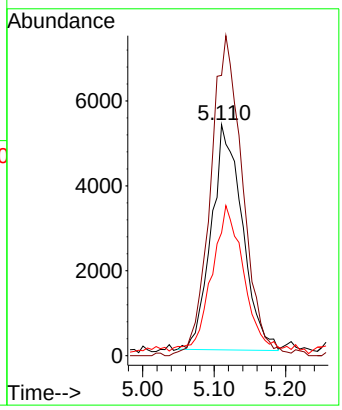


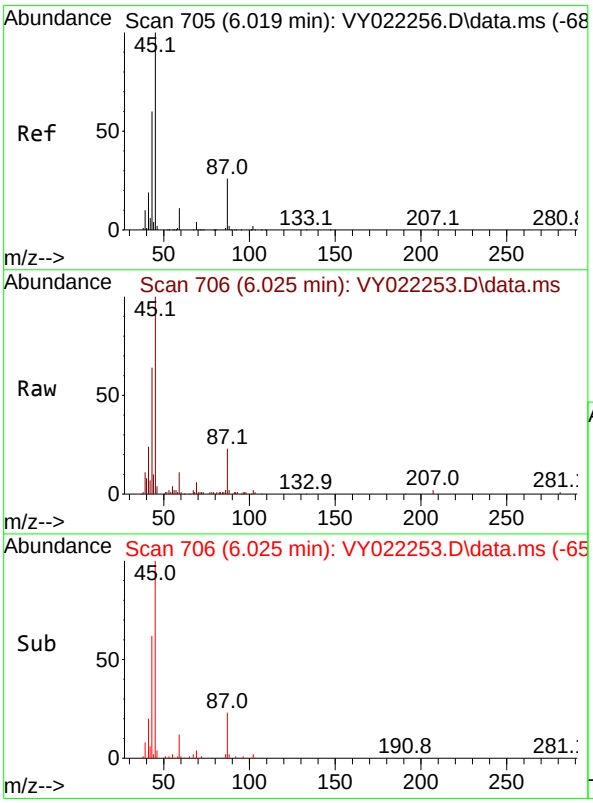
#21
trans-1,2-Dichloroethene
Concen: 4.889 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 96 Resp: 15943

Ion	Ratio	Lower	Upper
96	100		
61	123.1	113.4	170.0
98	51.2	50.9	76.3

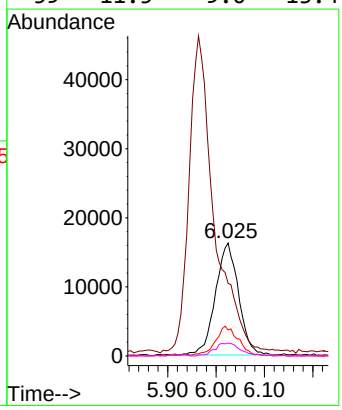


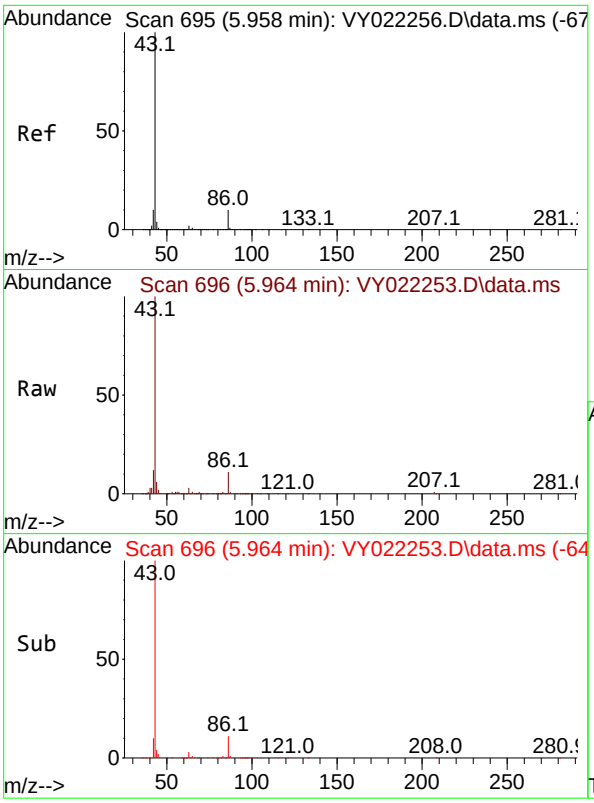


#22
Diisopropyl ether
Concen: 4.915 ug/l
RT: 6.025 min Scan# 706
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 45 Resp: 53760

Ion	Ratio	Lower	Upper
45	100		
43	59.6	48.2	72.2
87	22.4	21.4	32.0
59	11.5	9.0	13.4



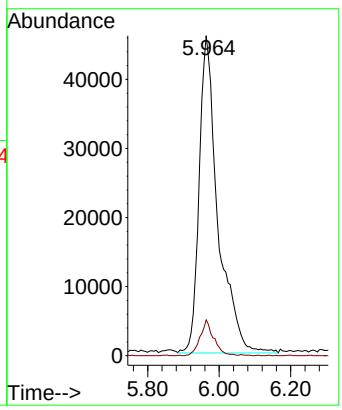


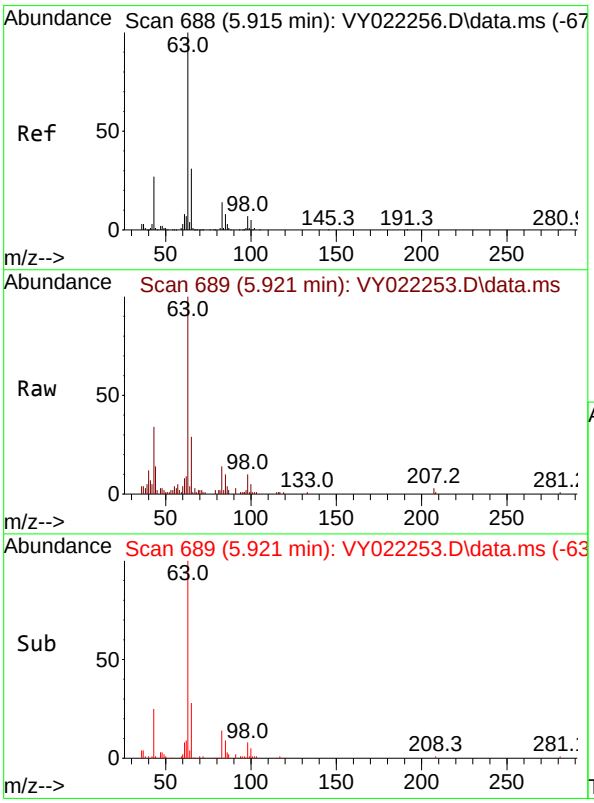
#23
Vinyl Acetate
Concen: 25.361 ug/l
RT: 5.964 min Scan# 6
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 167594

Ion	Ratio	Lower	Upper
43	100		
86	11.3	7.8	11.8

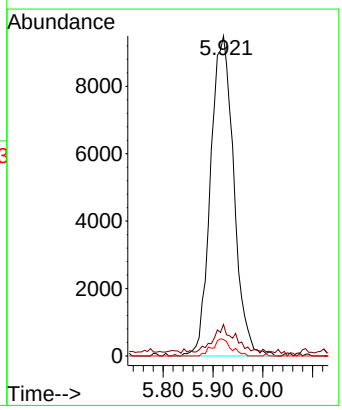


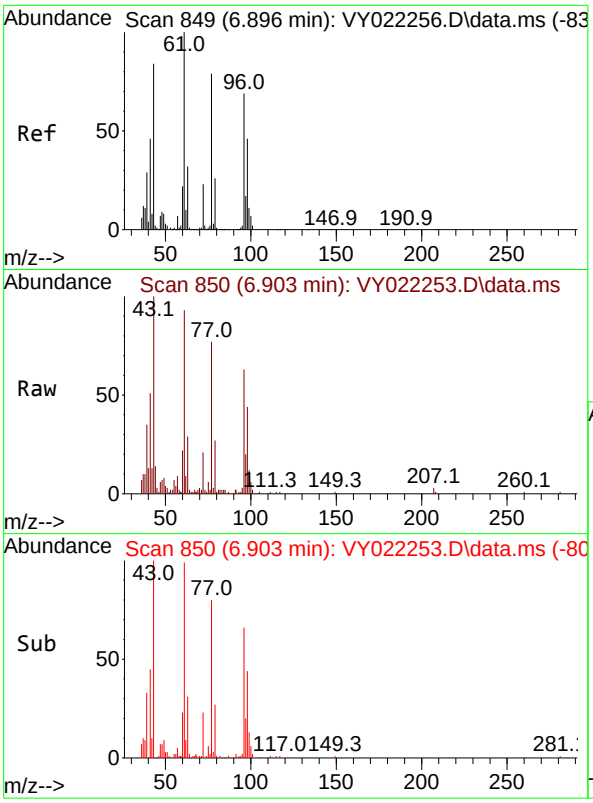


#24
1,1-Dichloroethane
Concen: 5.026 ug/l
RT: 5.921 min Scan# 689
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 63 Resp: 30712

Ion	Ratio	Lower	Upper
63	100		
98	8.3	3.5	10.5
100	5.1	2.4	7.2



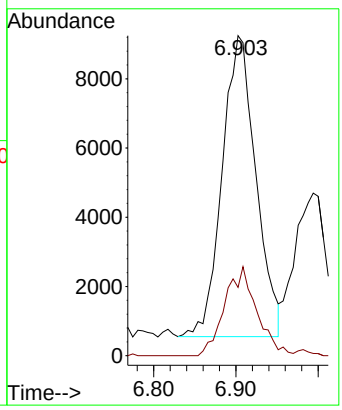


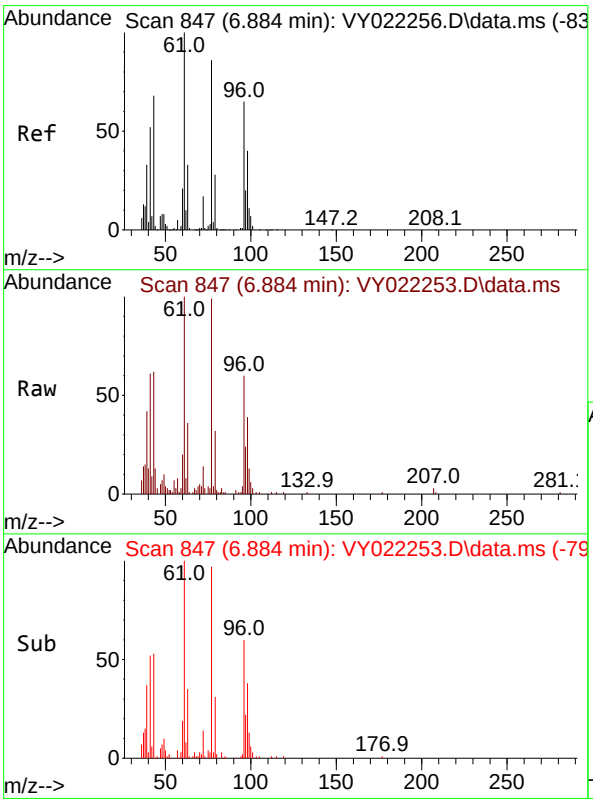
#25
2-Butanone
Concen: 26.203 ug/l
RT: 6.903 min Scan# 8
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 24805

Ion	Ratio	Lower	Upper
43	100		
72	22.7	22.1	33.1

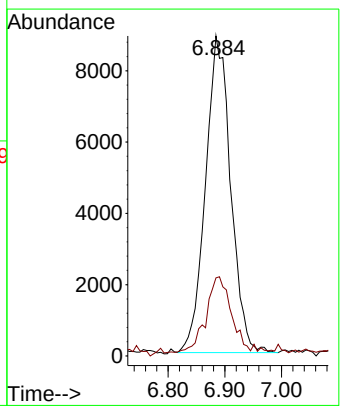


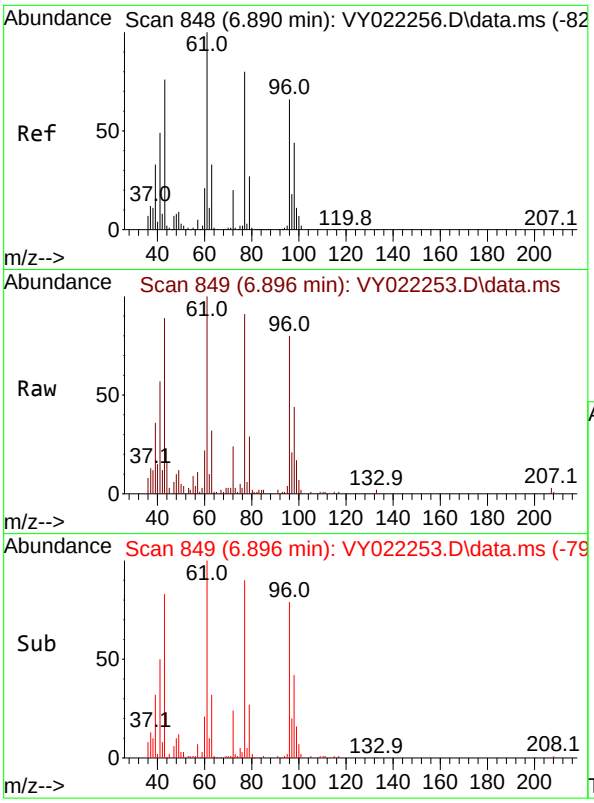


#26
2,2-Dichloropropane
Concen: 5.048 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 77 Resp: 27440

Ion	Ratio	Lower	Upper
77	100		
97	23.9	11.2	33.5



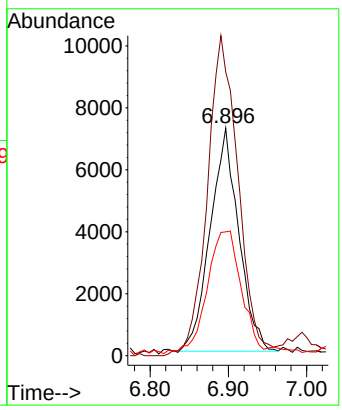


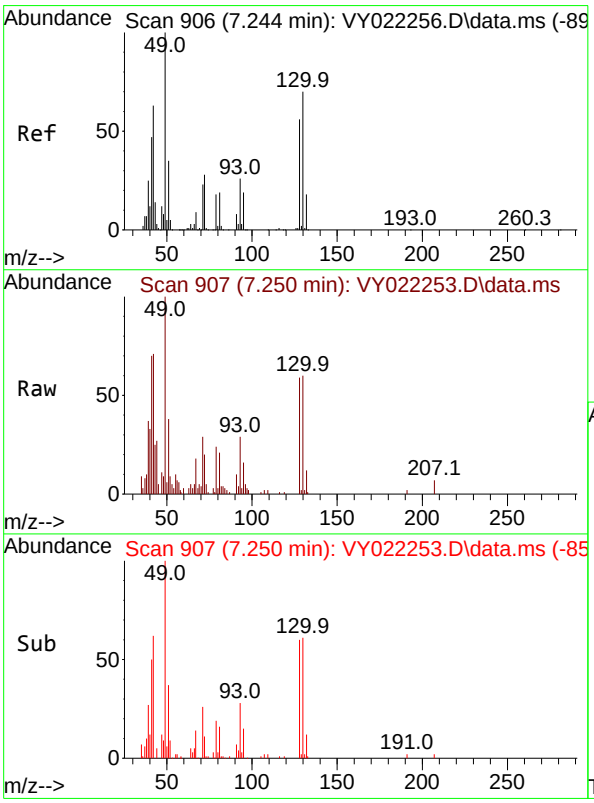
#27
cis-1,2-Dichloroethene
Concen: 4.857 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 96 Resp: 18276

Ion	Ratio	Lower	Upper
96	100		
61	154.3	0.0	302.6
98	66.0	0.0	128.8

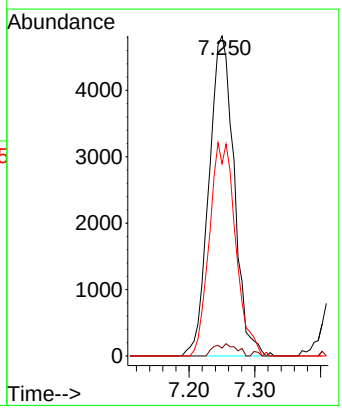


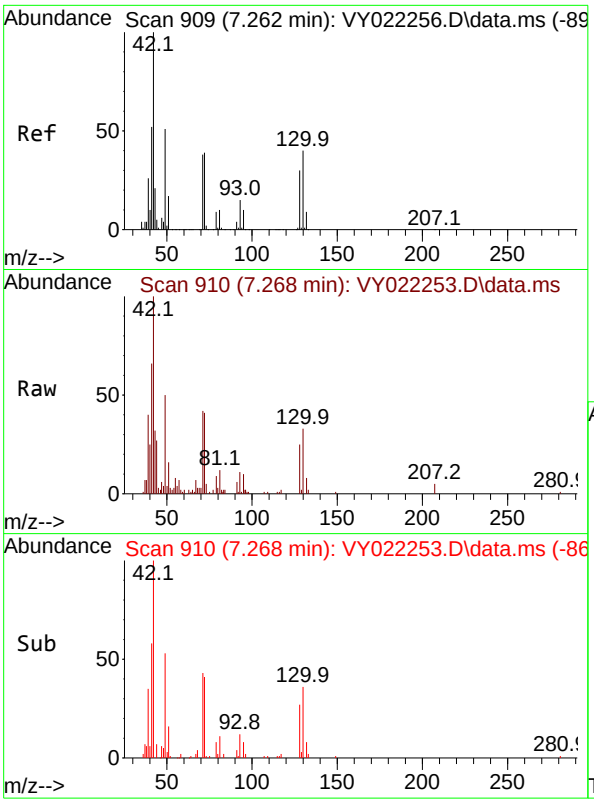


#28
Bromochloromethane
Concen: 4.901 ug/l
RT: 7.250 min Scan# 907
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 49 Resp: 12774

Ion	Ratio	Lower	Upper
49	100		
129	1.4	0.0	3.6
130	69.7	54.7	82.1



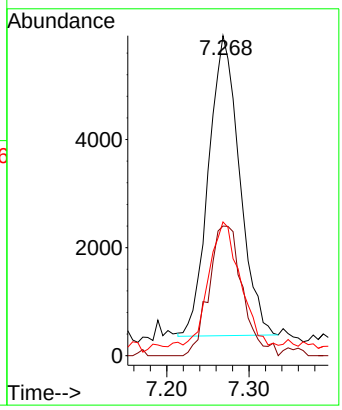


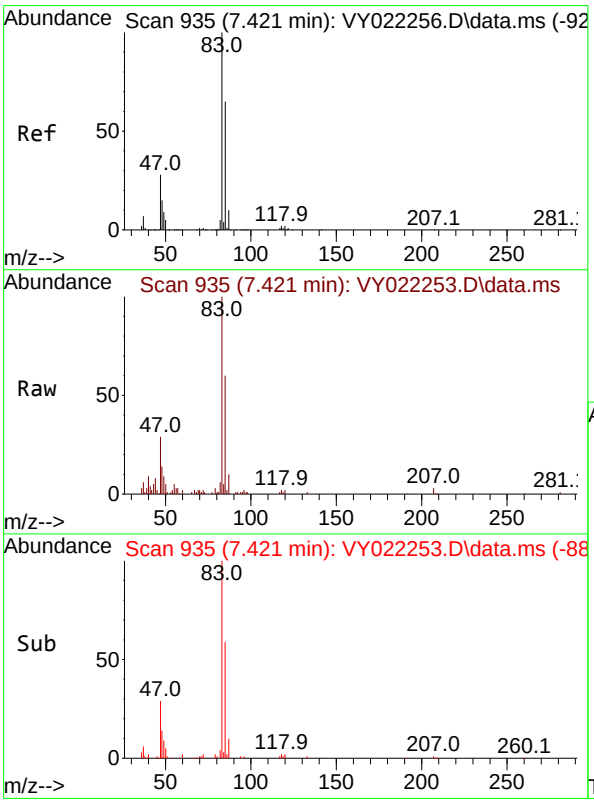
#29
Tetrahydrofuran
Concen: 23.811 ug/l
RT: 7.268 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 42 Resp: 14502

Ion	Ratio	Lower	Upper
42	100		
72	46.7	33.8	50.6
71	43.0	31.5	47.3

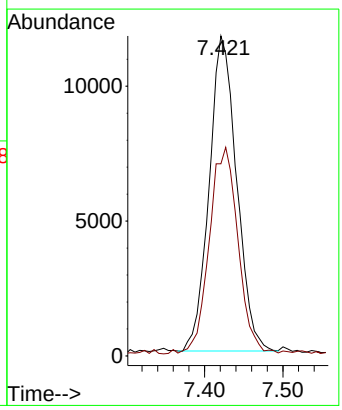


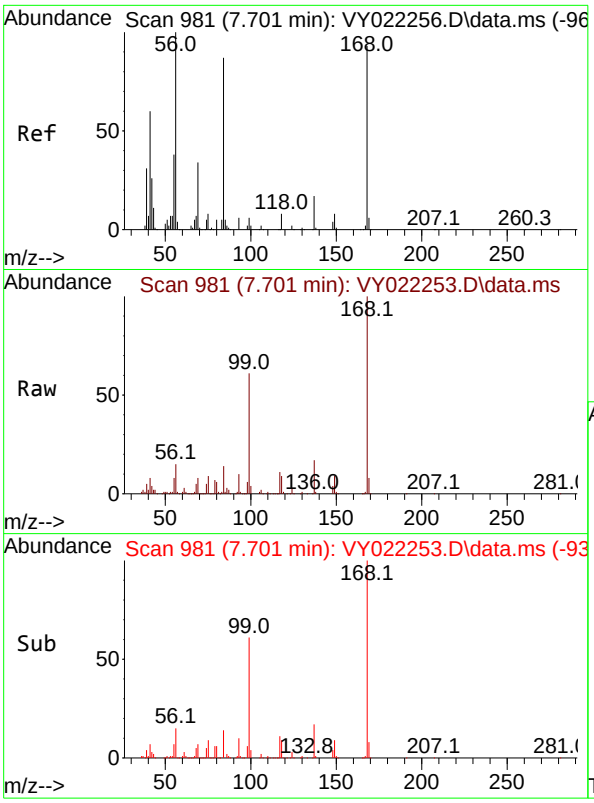


#30
Chloroform
Concen: 4.863 ug/l
RT: 7.421 min Scan# 935
Delta R.T. 0.000 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 83 Resp: 28505

Ion	Ratio	Lower	Upper
83	100		
85	60.1	51.8	77.8



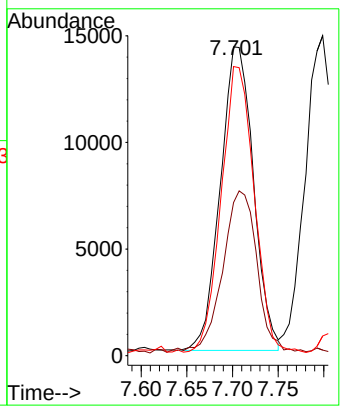


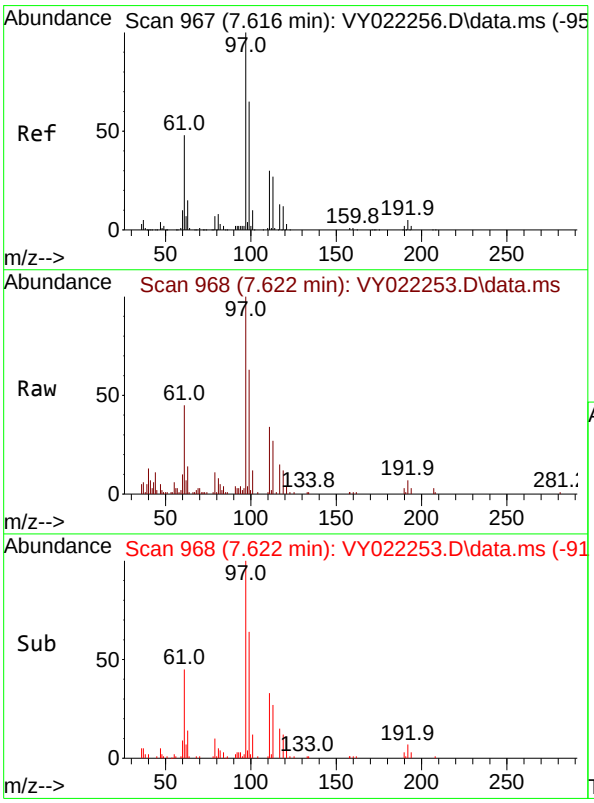
#31
Cyclohexane
Concen: 5.880 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 56 Resp: 35904

Ion	Ratio	Lower	Upper
56	100		
69	48.0	27.4	41.2#
84	93.4	70.0	105.0

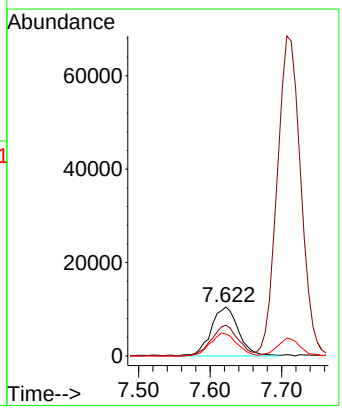


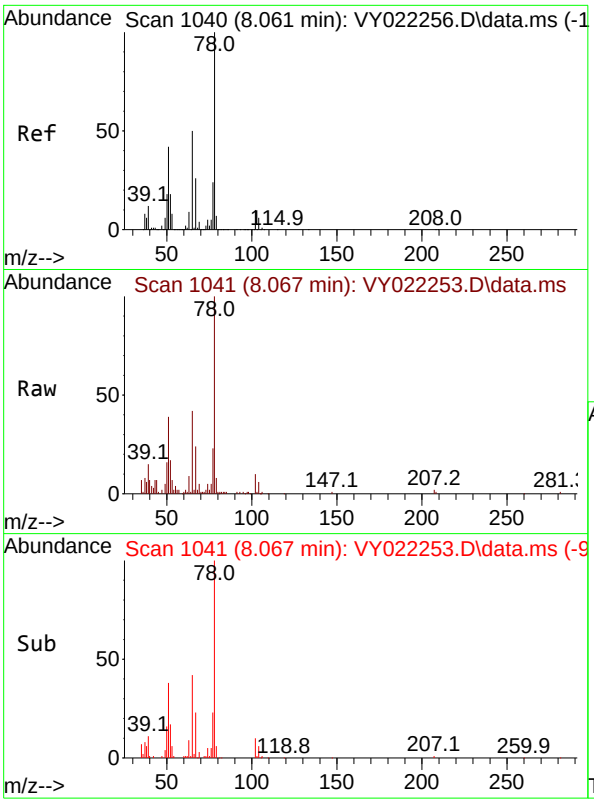


#32
1,1,1-Trichloroethane
Concen: 5.170 ug/l
RT: 7.622 min Scan# 968
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 97 Resp: 27801

Ion	Ratio	Lower	Upper
97	100		
99	60.7	51.4	77.0
61	45.4	38.1	57.1



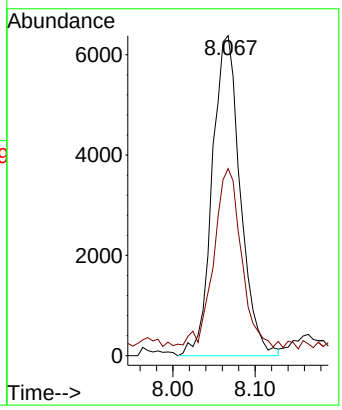


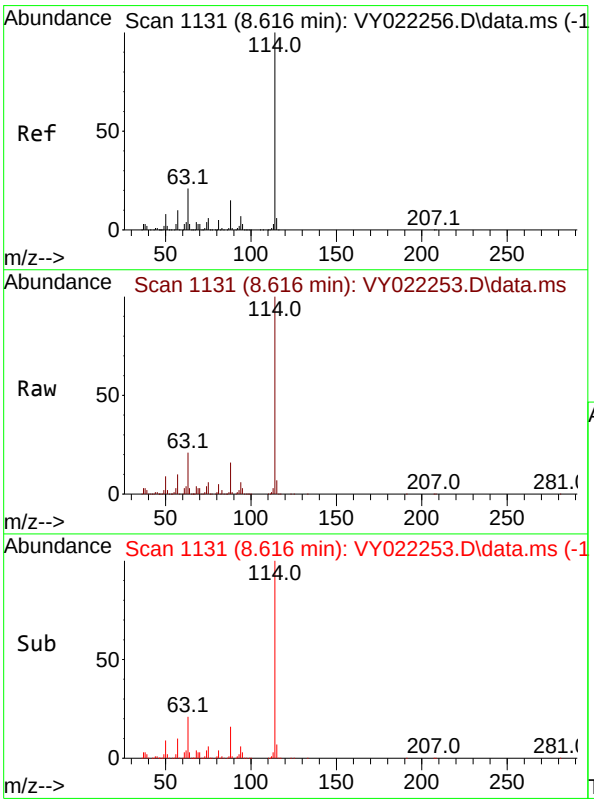
#33
1,2-Dichloroethane-d4
Concen: 5.009 ug/l
RT: 8.067 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 65 Resp: 15118

Ion	Ratio	Lower	Upper
65	100		
67	54.6	0.0	104.6

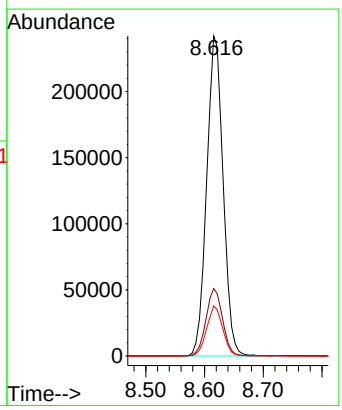


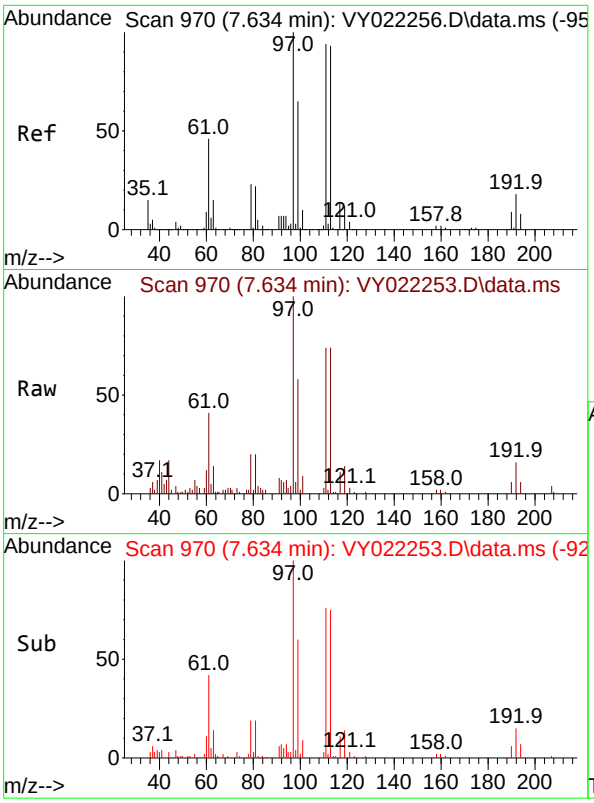


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion:114 Resp: 470488

Ion	Ratio	Lower	Upper
114	100		
63	21.0	0.0	41.0
88	15.7	0.0	29.4



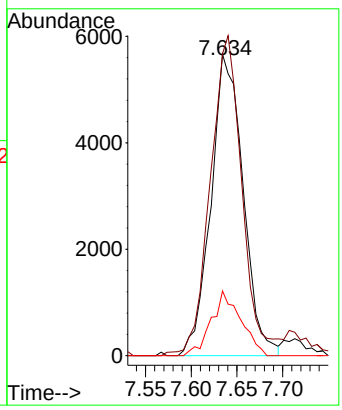


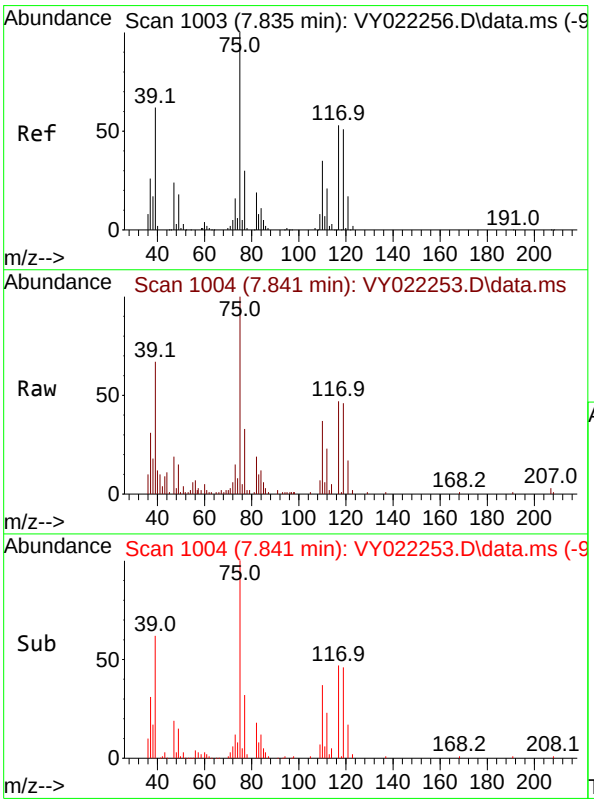
#35
Dibromofluoromethane
Concen: 4.933 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion:113 Resp: 13854

Ion	Ratio	Lower	Upper
113	100		
111	103.5	82.6	123.8
192	19.7	15.2	22.8

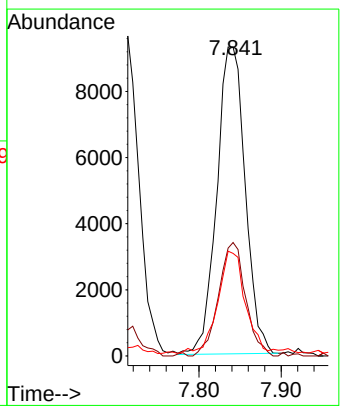


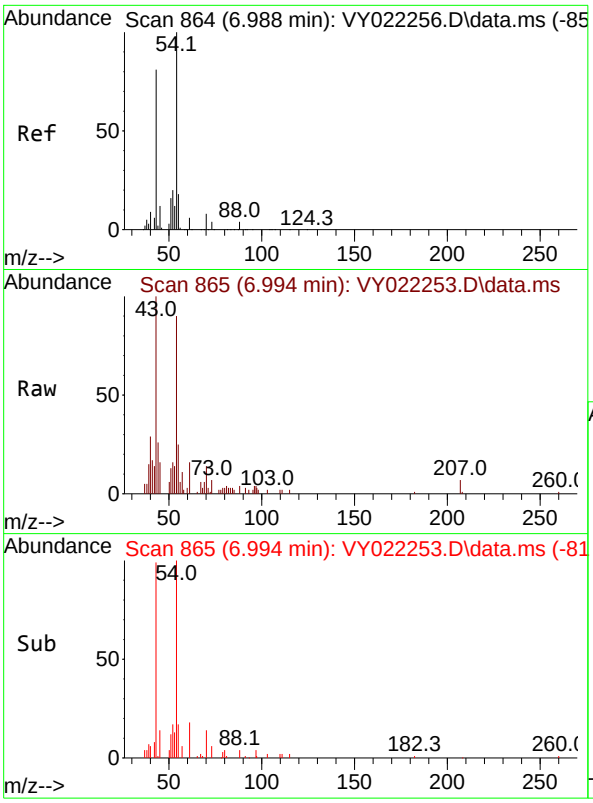


#36
1,1-Dichloropropene
Concen: 4.824 ug/l
RT: 7.841 min Scan# 1004
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 75 Resp: 22314

Ion	Ratio	Lower	Upper
75	100		
110	35.1	16.6	49.8
77	32.4	24.6	37.0



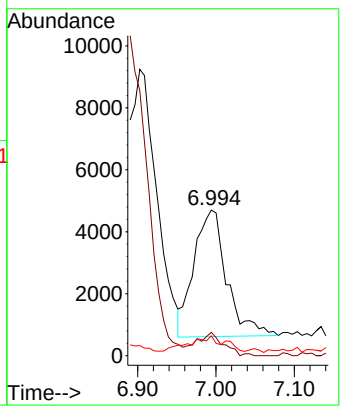


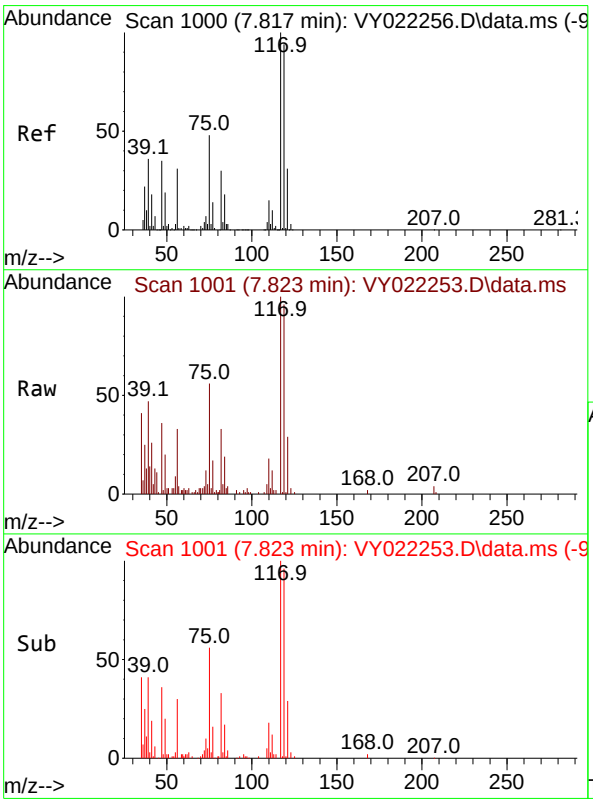
#37
Ethyl Acetate
Concen: 5.352 ug/l
RT: 6.994 min Scan# 8
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 11910

Ion	Ratio	Lower	Upper
43	100		
61	15.1	10.2	15.2
70	9.6	7.6	11.4

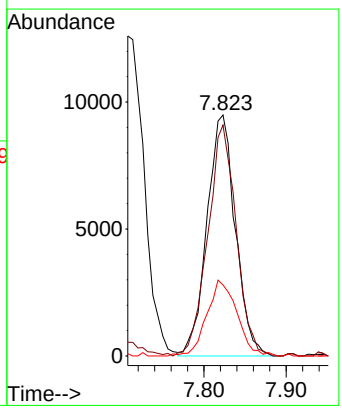


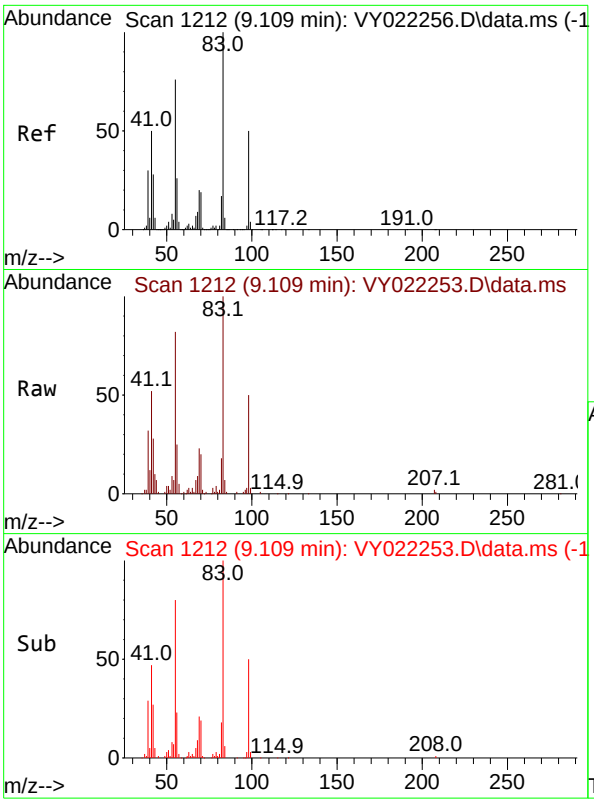


#38
Carbon Tetrachloride
Concen: 4.768 ug/l
RT: 7.823 min Scan# 1001
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion:117 Resp: 22826

Ion	Ratio	Lower	Upper
117	100		
119	95.8	75.3	112.9
121	29.5	24.7	37.1



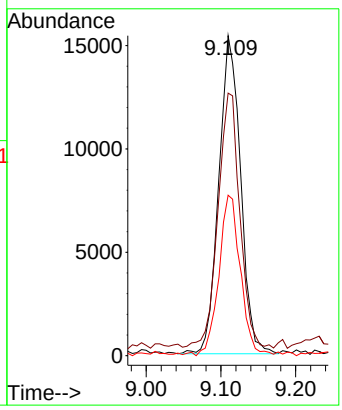


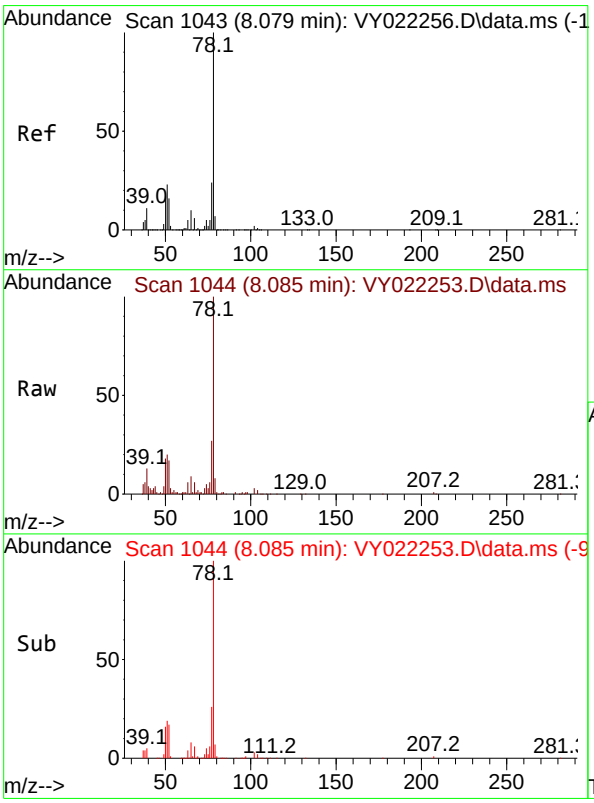
#39
Methylcyclohexane
Concen: 5.024 ug/l
RT: 9.109 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 83 Resp: 31218

Ion	Ratio	Lower	Upper
83	100		
55	78.9	60.6	90.8
98	49.6	40.0	60.0

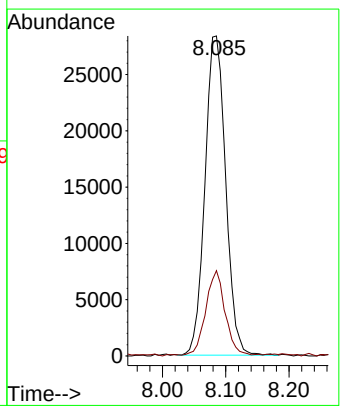


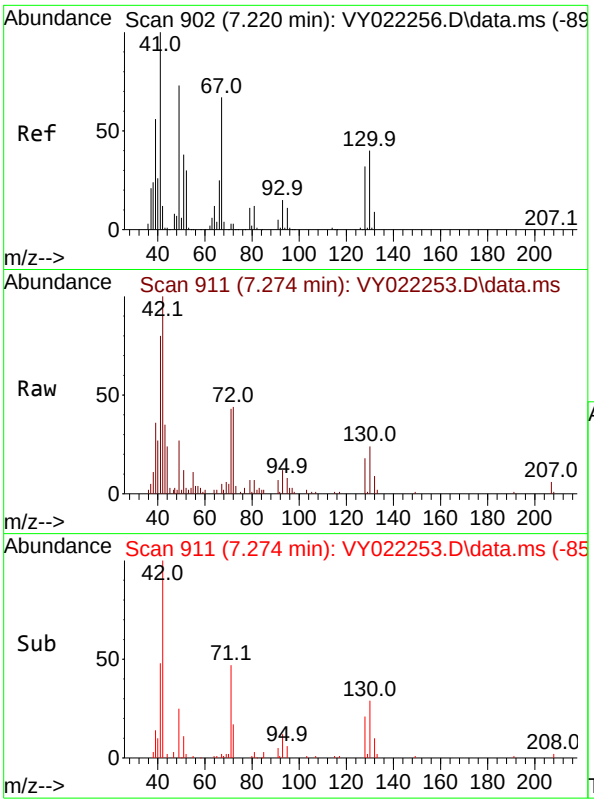


#40
Benzene
Concen: 4.699 ug/l
RT: 8.085 min Scan# 1044
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 78 Resp: 64430

Ion	Ratio	Lower	Upper
78	100		
77	26.4	18.9	28.3



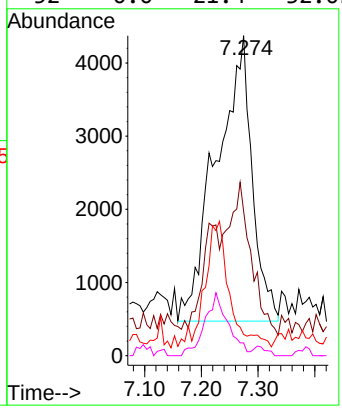


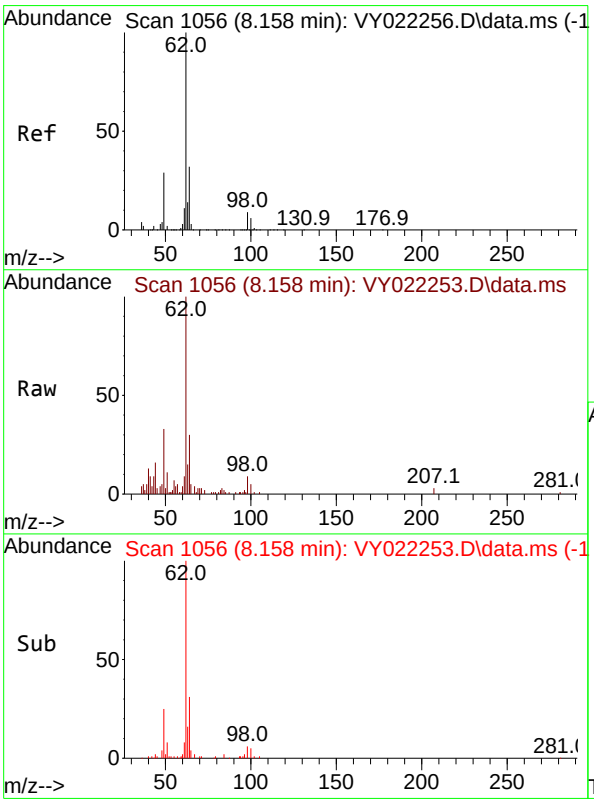
#41
Methacrylonitrile
Concen: 10.436 ug/l
RT: 7.274 min Scan# 91
Delta R.T. 0.055 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 41 Resp: 16995

Ion	Ratio	Lower	Upper
41	100		
39	26.8	39.1	58.7#
67	0.0	47.1	70.7#
52	0.0	21.4	32.0#

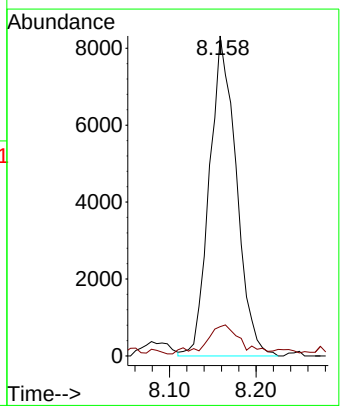


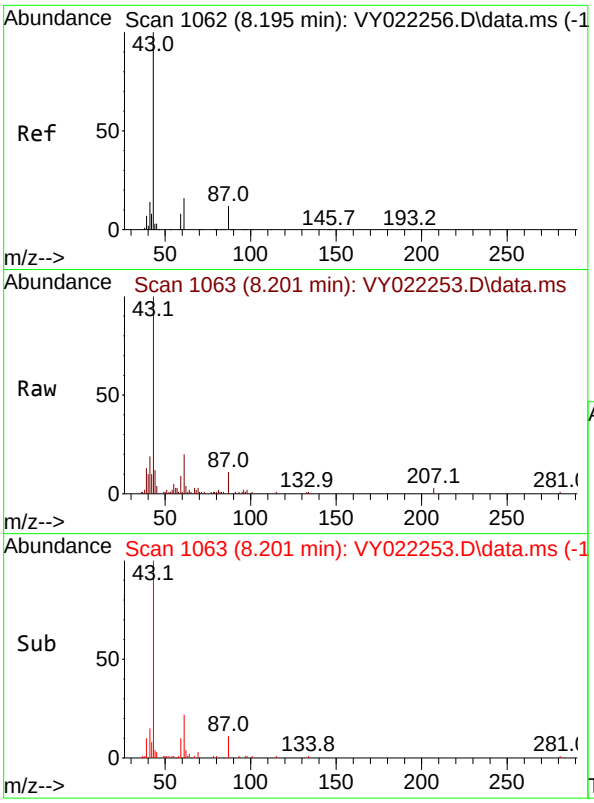


#42
1,2-Dichloroethane
Concen: 4.837 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 62 Resp: 17934

Ion	Ratio	Lower	Upper
62	100		
98	10.1	0.0	18.4



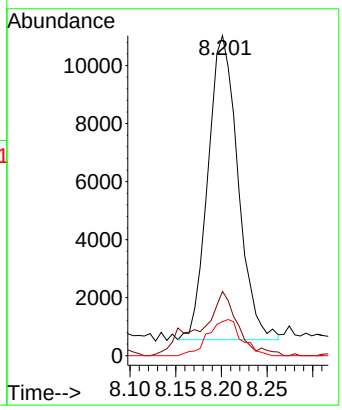


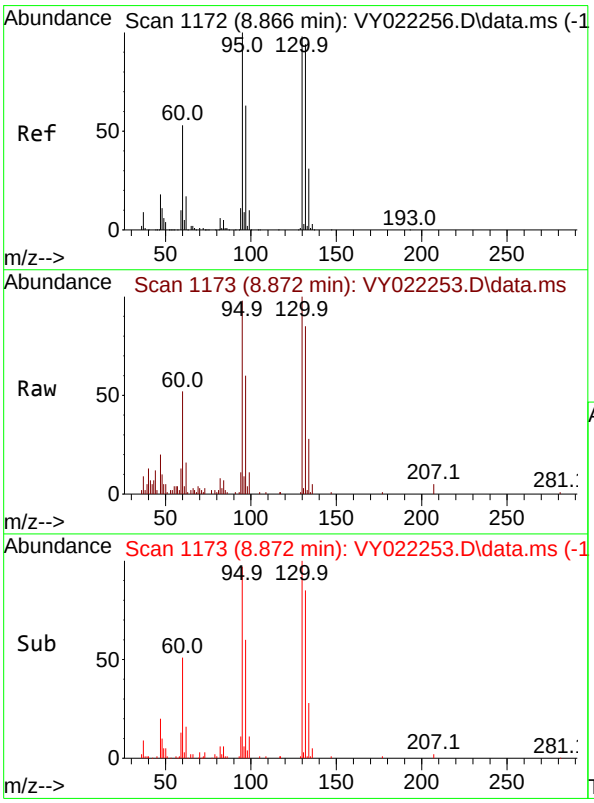
#43
Isopropyl Acetate
Concen: 4.941 ug/l
RT: 8.201 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 23979

Ion	Ratio	Lower	Upper
43	100		
61	18.7	15.1	22.7
87	13.2	9.7	14.5

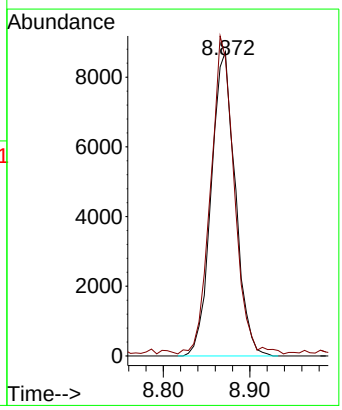


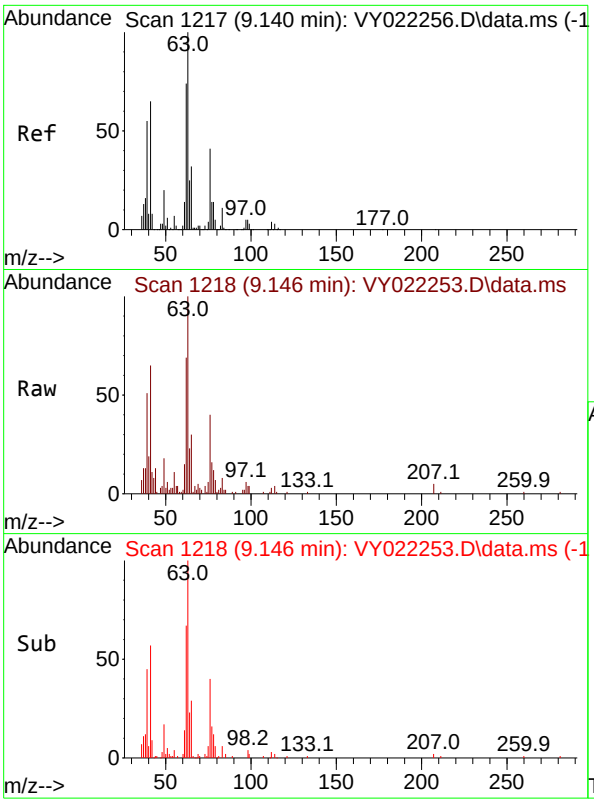


#44
Trichloroethene
Concen: 4.943 ug/l
RT: 8.872 min Scan# 1173
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion:130 Resp: 16852

Ion	Ratio	Lower	Upper
130	100		
95	97.3	0.0	204.8



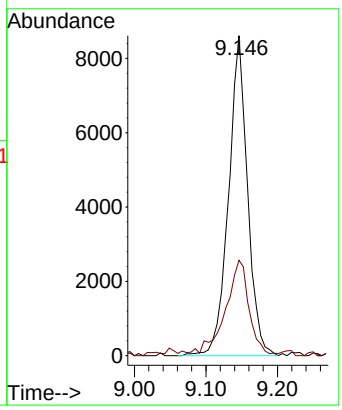


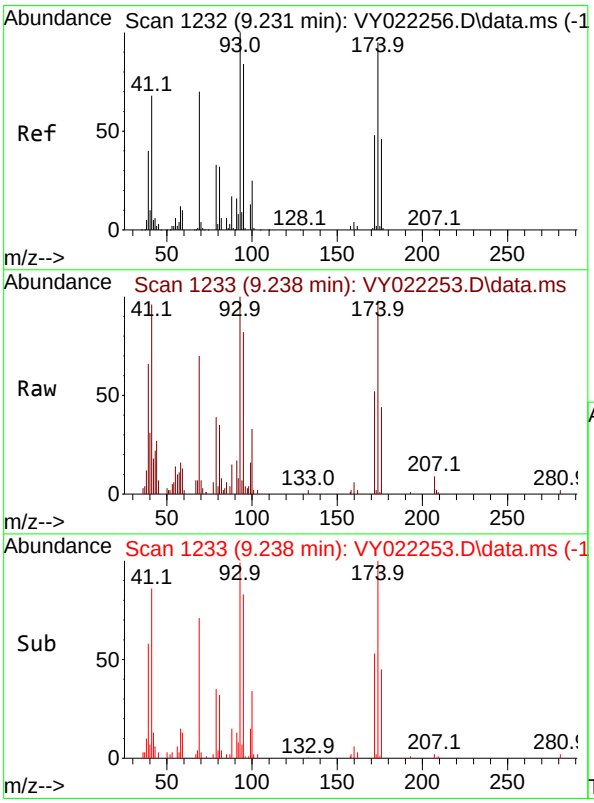
#45
1,2-Dichloropropane
Concen: 4.796 ug/l
RT: 9.146 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 63 Resp: 15855

Ion	Ratio	Lower	Upper
63	100		
65	29.1	25.7	38.5

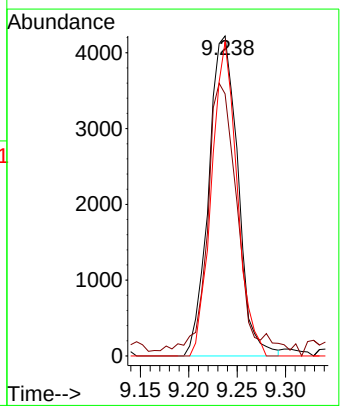


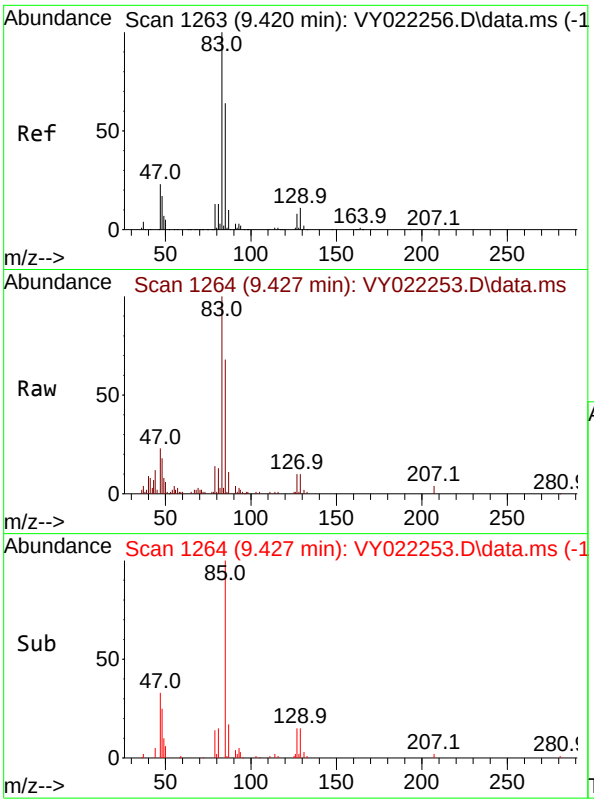


#46
Dibromomethane
Concen: 4.980 ug/l
RT: 9.238 min Scan# 1233
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 93 Resp: 8879

Ion	Ratio	Lower	Upper
93	100		
95	89.8	65.2	97.8
174	85.7	74.3	111.5



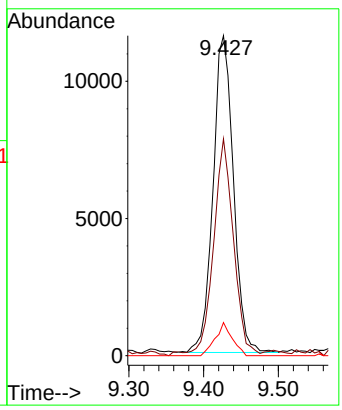


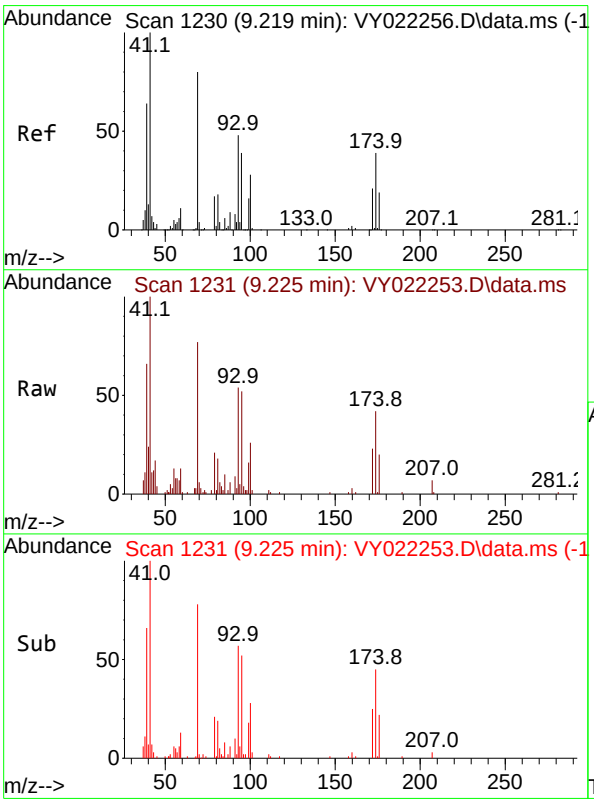
#47
Bromodichloromethane
Concen: 4.736 ug/l
RT: 9.427 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 83 Resp: 21906

Ion	Ratio	Lower	Upper
83	100		
85	67.3	51.1	76.7
127	10.4	6.6	10.0#

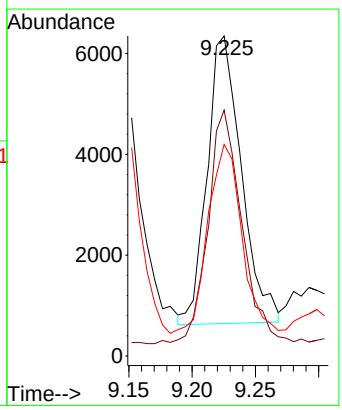


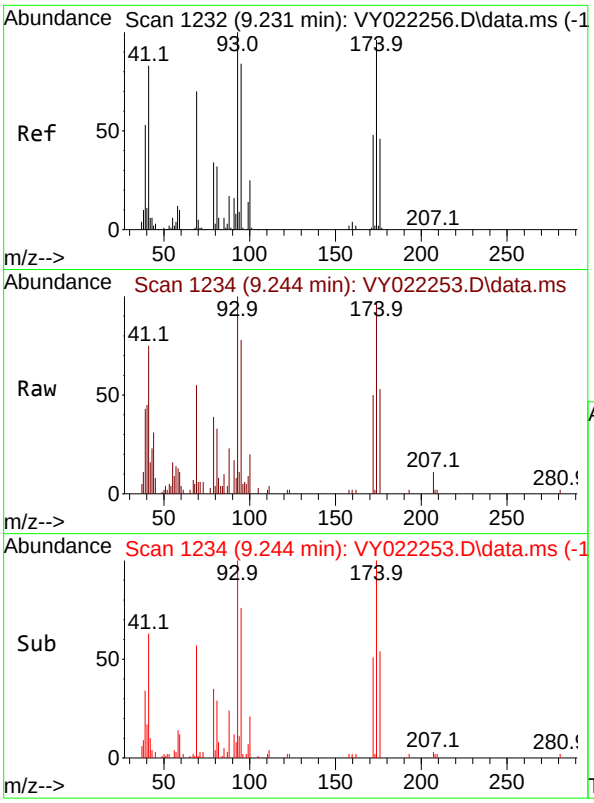


#48
Methyl methacrylate
Concen: 4.727 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 41 Resp: 10729

Ion	Ratio	Lower	Upper
41	100		
69	80.7	63.5	95.3
39	66.0	50.8	76.2



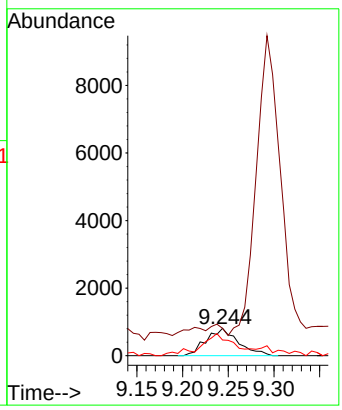


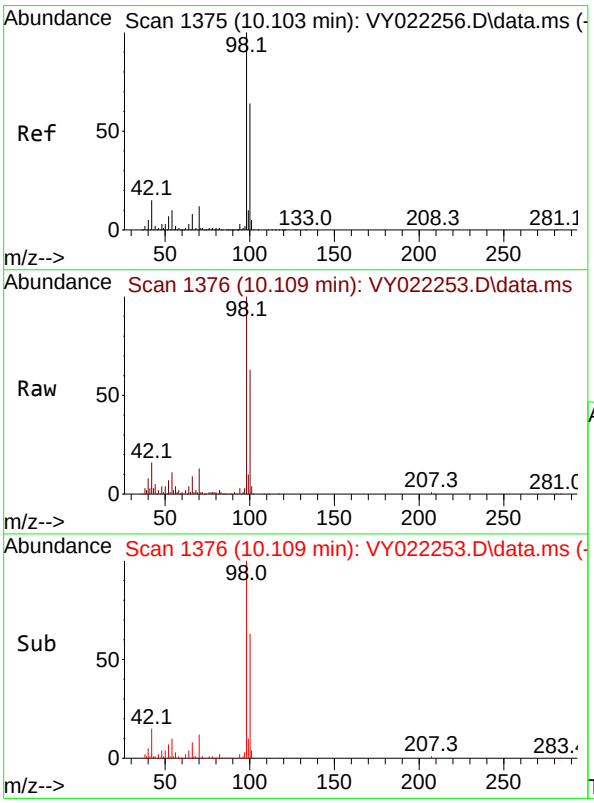
#49
1,4-Dioxane
Concen: 97.404 ug/l
RT: 9.244 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 88 Resp: 1962

Ion	Ratio	Lower	Upper
88	100		
43	0.0	28.5	42.7#
58	79.8	61.4	92.2

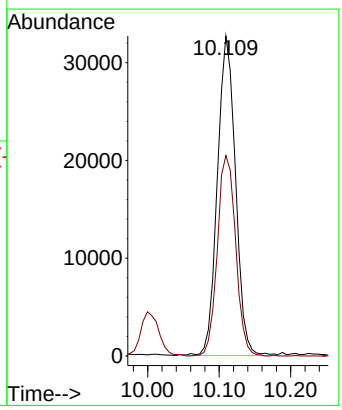


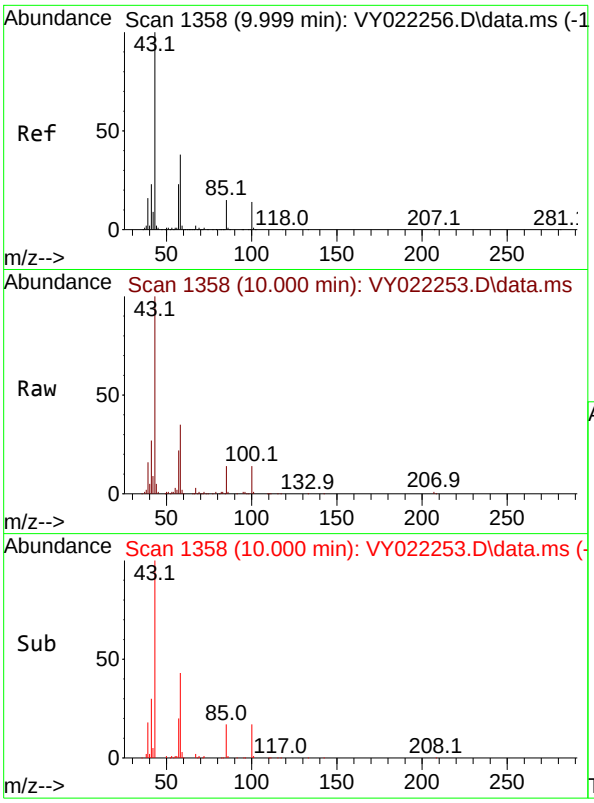


#50
Toluene-d8
Concen: 5.006 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 98 Resp: 57575

Ion	Ratio	Lower	Upper
98	100		
100	63.2	51.8	77.8



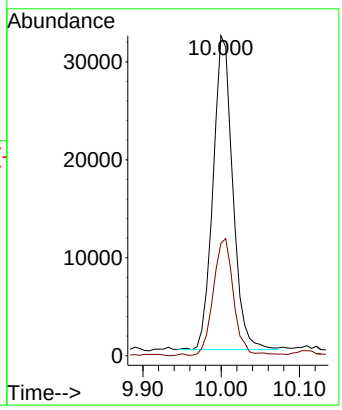


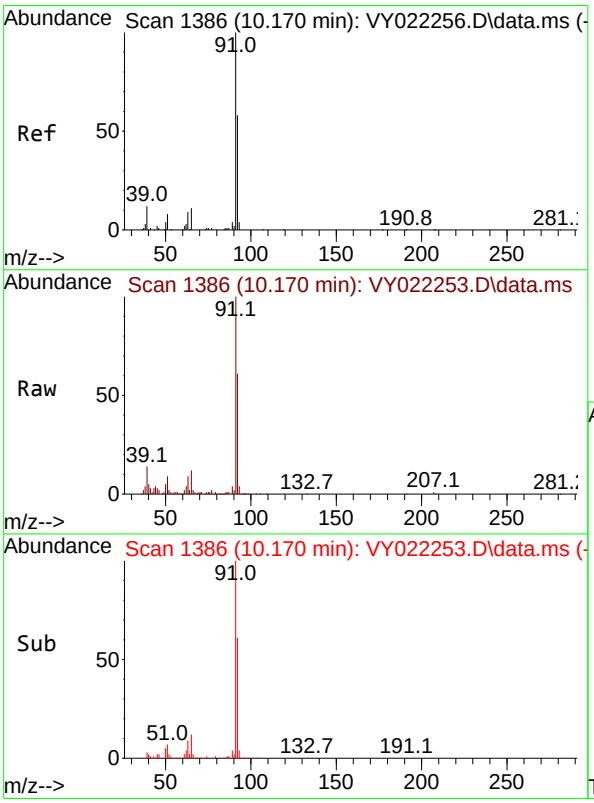
#51
4-Methyl-2-Pentanone
Concen: 23.464 ug/l
RT: 10.000 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 55880

Ion	Ratio	Lower	Upper
43	100		
58	38.3	29.4	44.2

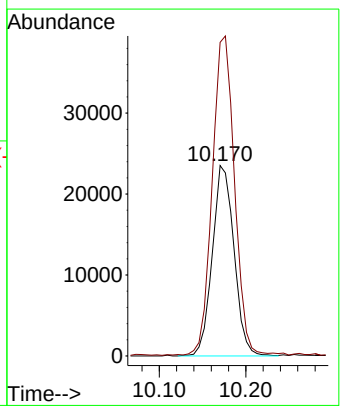


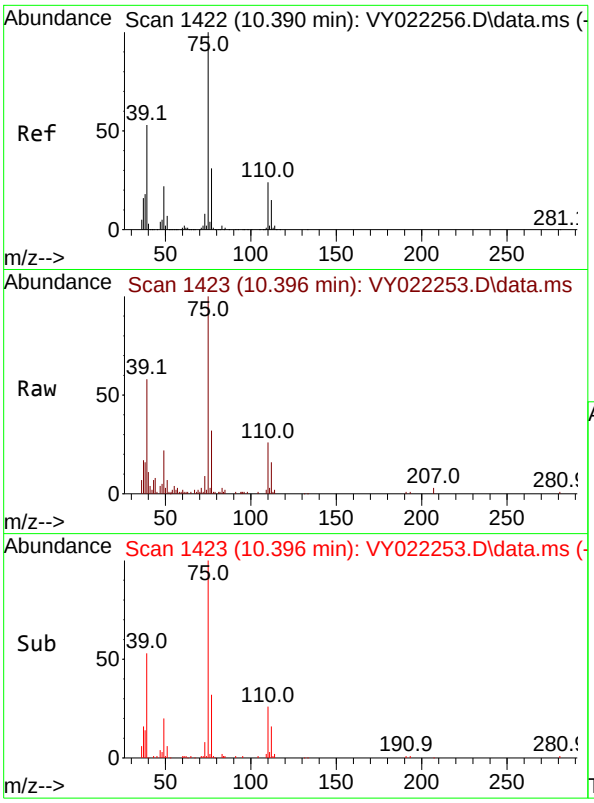


#52
Toluene
Concen: 4.722 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.000 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 92 Resp: 41001

Ion	Ratio	Lower	Upper
92	100		
91	171.8	139.1	208.7



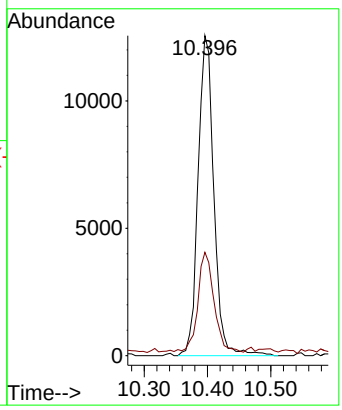


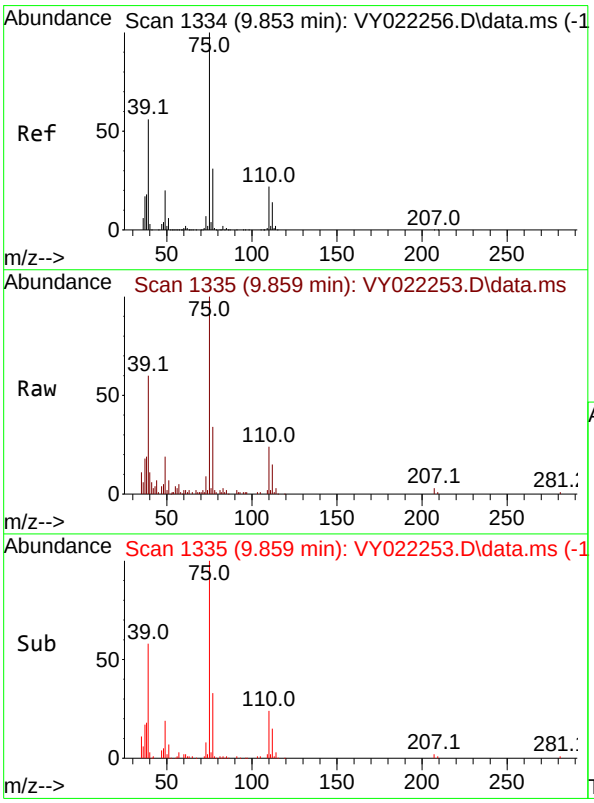
#53
t-1,3-Dichloropropene
Concen: 4.839 ug/l
RT: 10.396 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 75 Resp: 21842

Ion	Ratio	Lower	Upper
75	100		
77	31.1	25.0	37.6

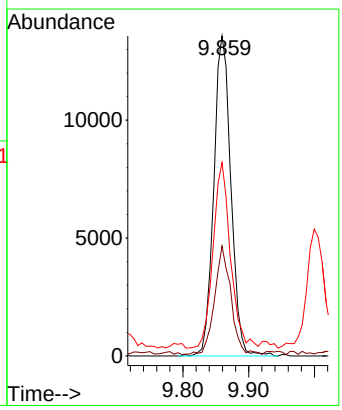


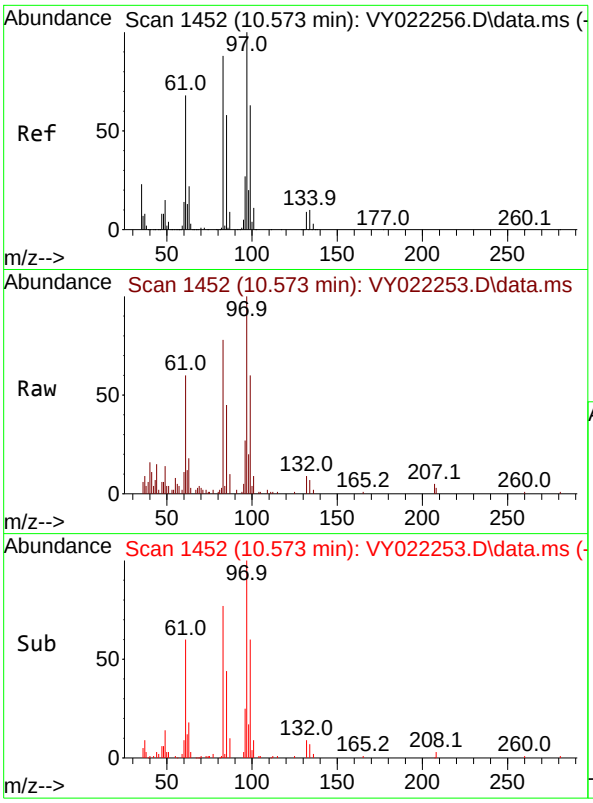


#54
cis-1,3-Dichloropropene
Concen: 4.758 ug/l
RT: 9.859 min Scan# 1335
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 75 Resp: 24609

Ion	Ratio	Lower	Upper
75	100		
77	33.3	25.1	37.7
39	58.0	44.5	66.7



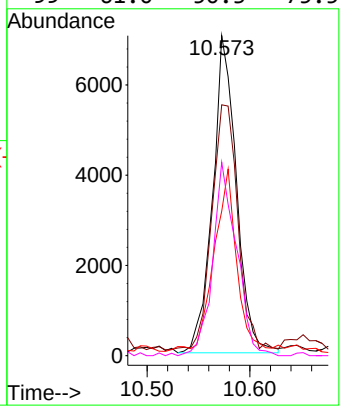


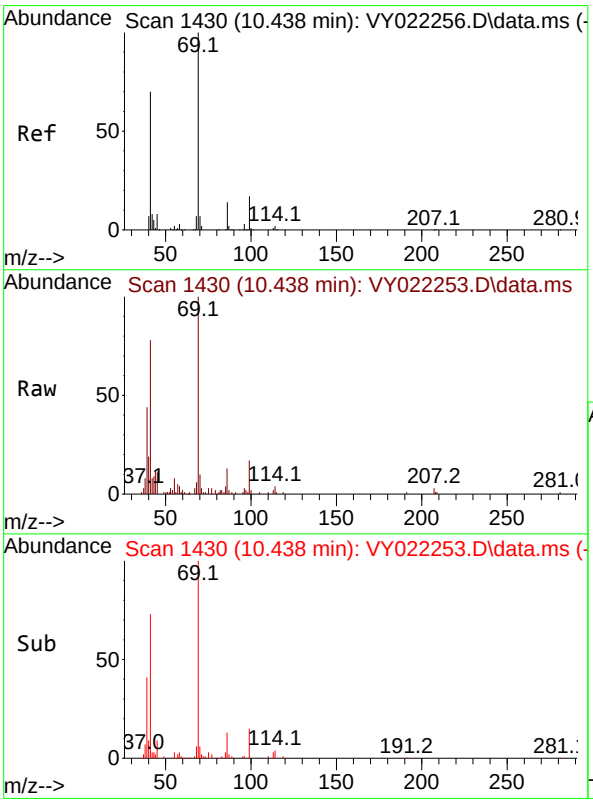
#55
1,1,2-Trichloroethane
Concen: 4.964 ug/l
RT: 10.573 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 97 Resp: 11333

Ion	Ratio	Lower	Upper
97	100		
83	77.0	70.3	105.5
85	42.7	46.2	69.4#
99	61.0	50.3	75.5

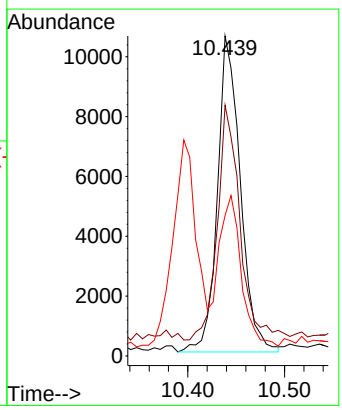


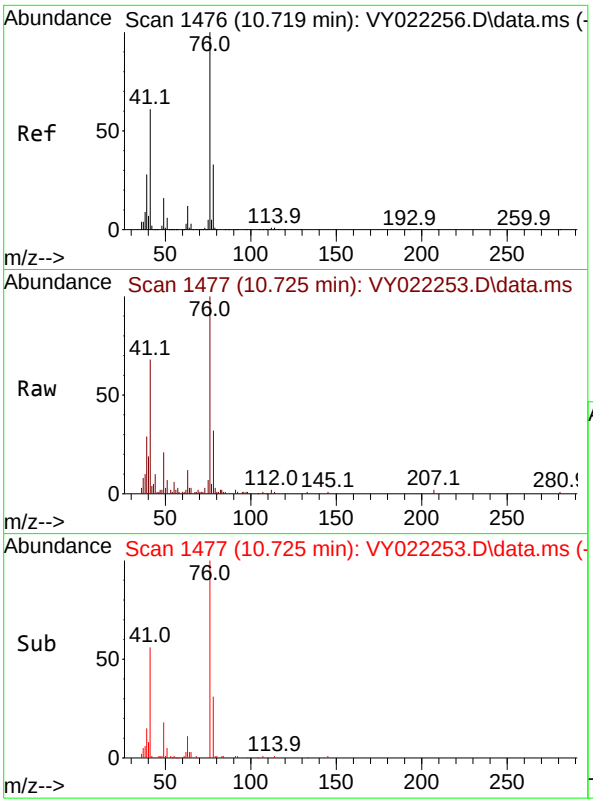


#56
Ethyl methacrylate
Concen: 4.898 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 69 Resp: 17420

Ion	Ratio	Lower	Upper
69	100		
41	73.2	56.5	84.7
39	46.8	37.1	55.7



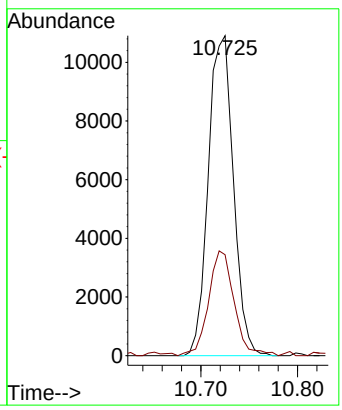


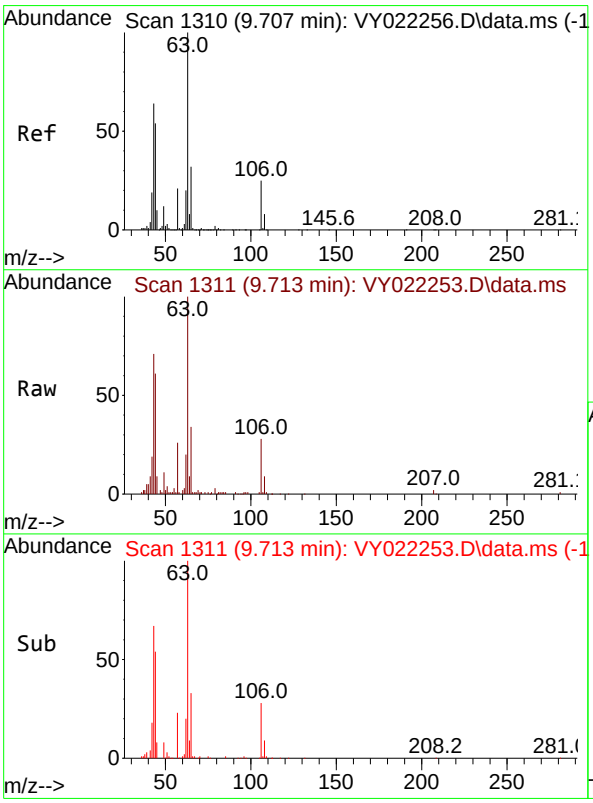
#57
1,3-Dichloropropane
Concen: 4.852 ug/l
RT: 10.725 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 76 Resp: 19684

Ion	Ratio	Lower	Upper
76	100		
78	33.2	25.8	38.8

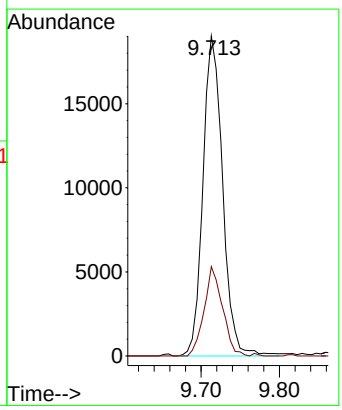


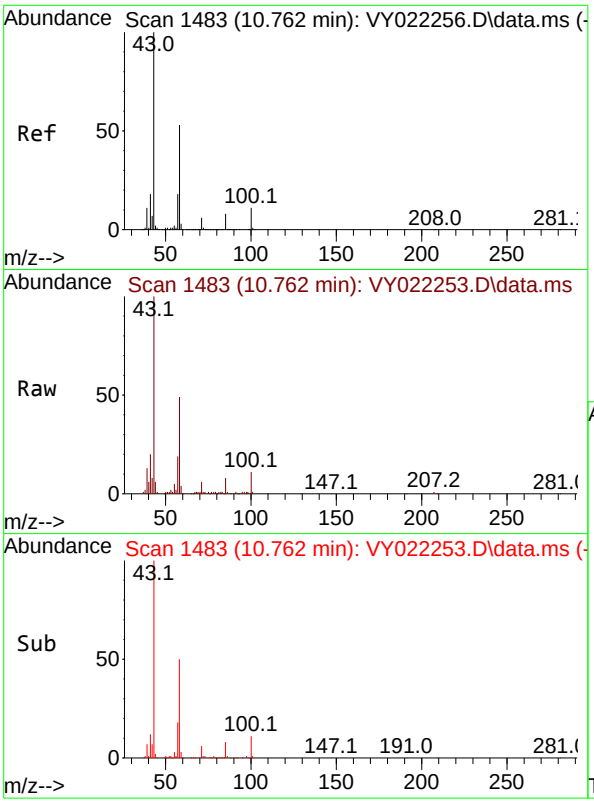


#58
2-Chloroethyl Vinyl ether
Concen: 20.807 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 63 Resp: 33215

Ion	Ratio	Lower	Upper
63	100		
106	26.0	21.0	31.4



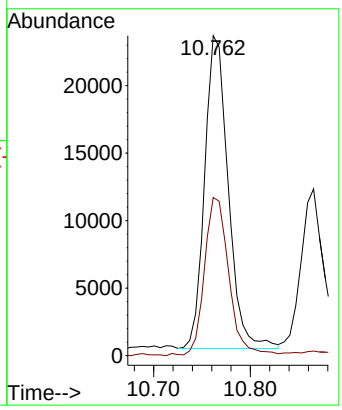


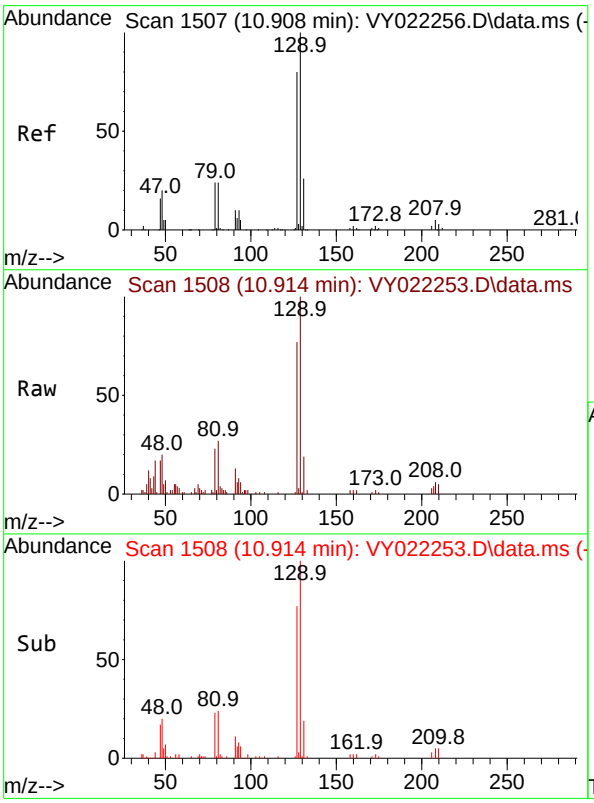
#59
2-Hexanone
Concen: 24.617 ug/l
RT: 10.762 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 39307

Ion	Ratio	Lower	Upper
43	100		
58	52.4	26.1	78.3

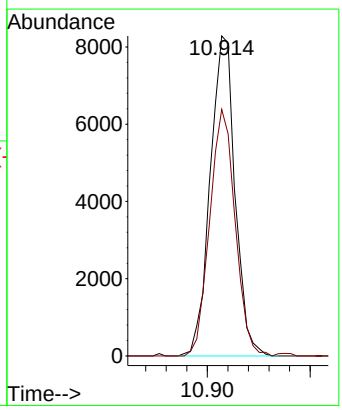


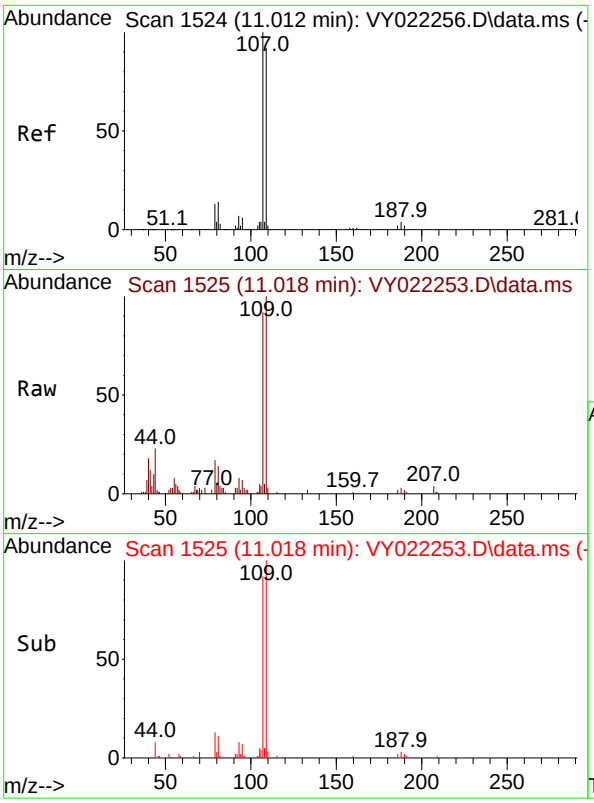


#60
Dibromochloromethane
Concen: 4.693 ug/l
RT: 10.914 min Scan# 1508
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion:129 Resp: 13908

Ion	Ratio	Lower	Upper
129	100		
127	78.6	38.6	115.7



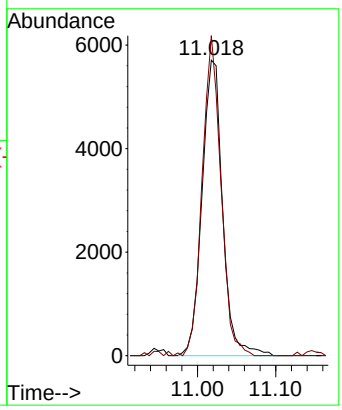


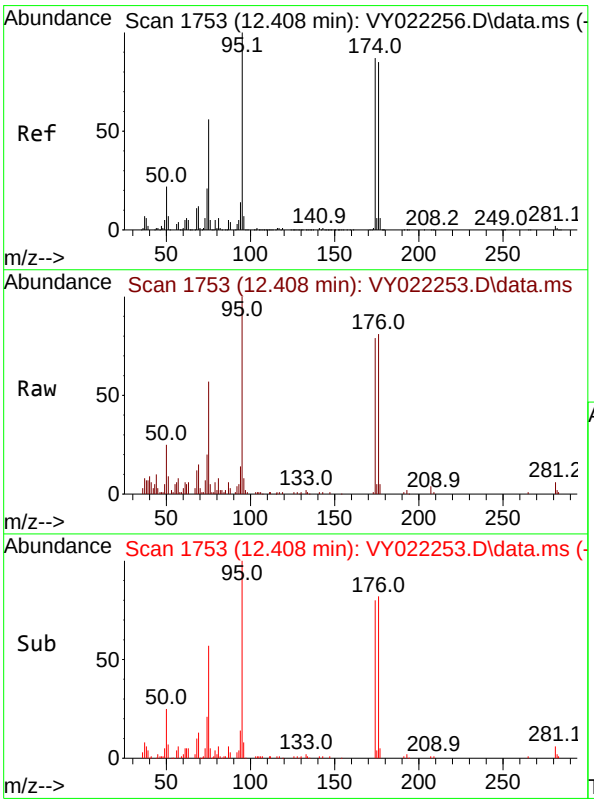
#61
1,2-Dibromoethane
Concen: 4.883 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion:107 Resp: 10391

Ion	Ratio	Lower	Upper
107	100		
109	98.9	74.6	111.8

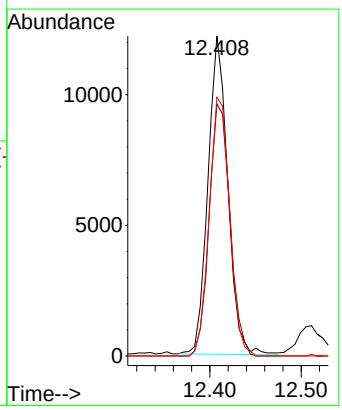


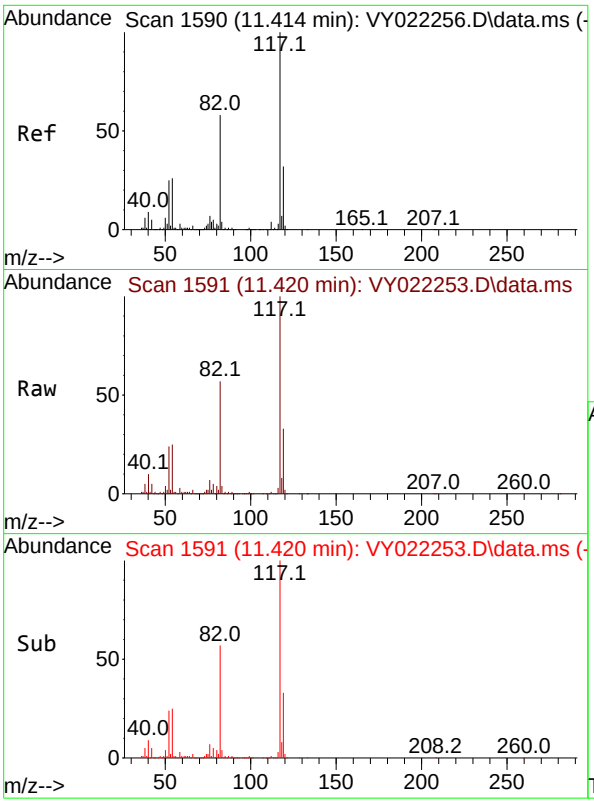


#62
4-Bromofluorobenzene
Concen: 5.028 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 95 Resp: 18328

Ion	Ratio	Lower	Upper
95	100		
174	83.0	0.0	166.8
176	84.3	0.0	160.8



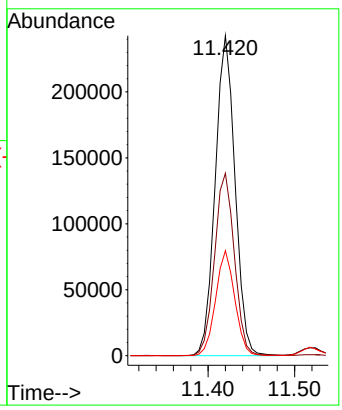


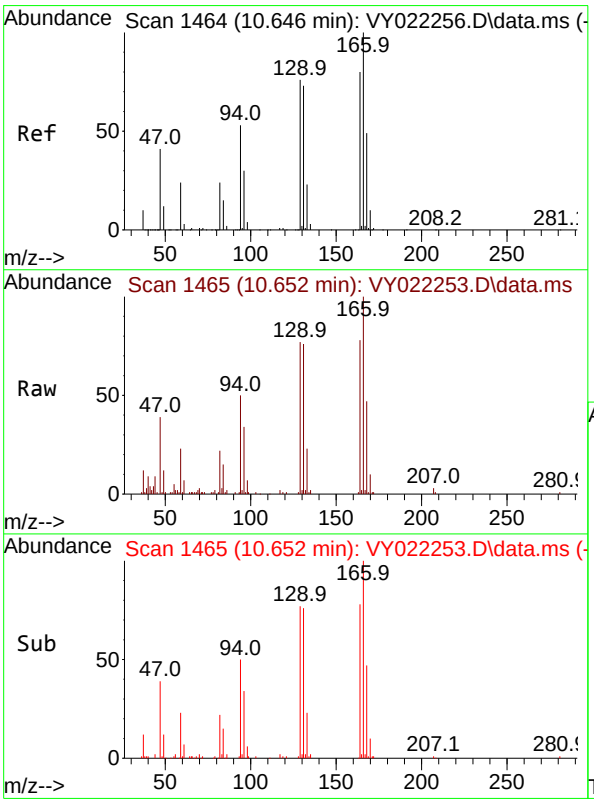
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion:117 Resp: 385399

Ion	Ratio	Lower	Upper
117	100		
82	56.9	46.6	70.0
119	32.8	25.8	38.6

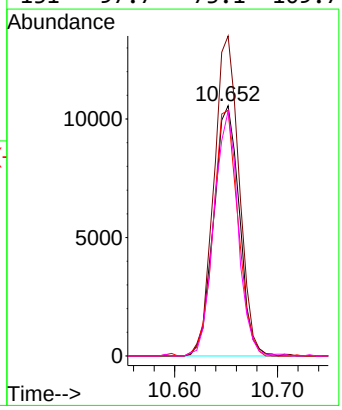


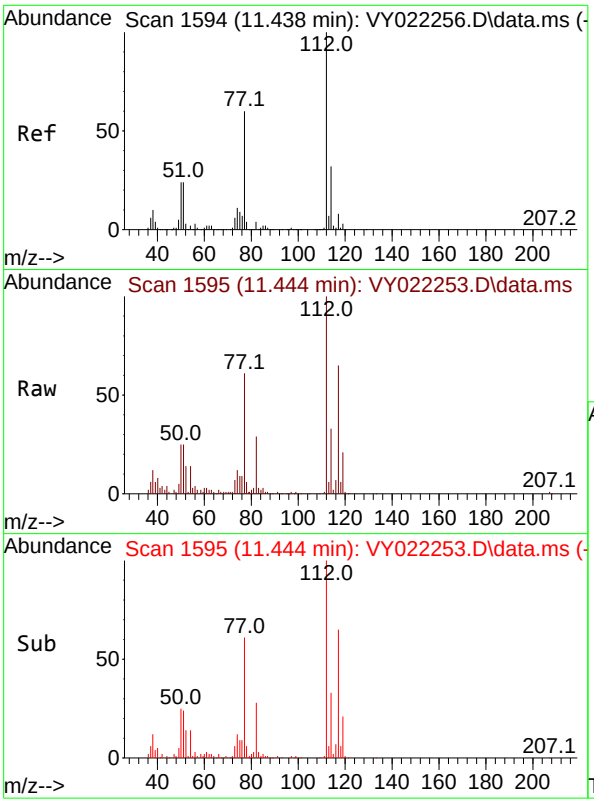


#64
Tetrachloroethene
Concen: 5.125 ug/l
RT: 10.652 min Scan# 1465
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion:164 Resp: 18255

Ion	Ratio	Lower	Upper
164	100		
166	127.8	100.4	150.6
129	98.1	76.4	114.6
131	97.7	73.1	109.7



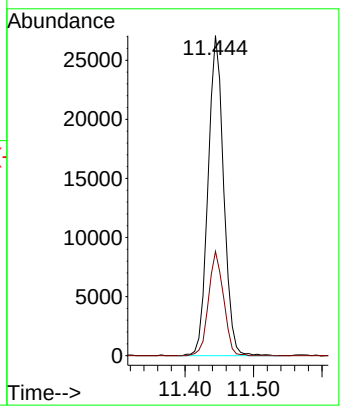


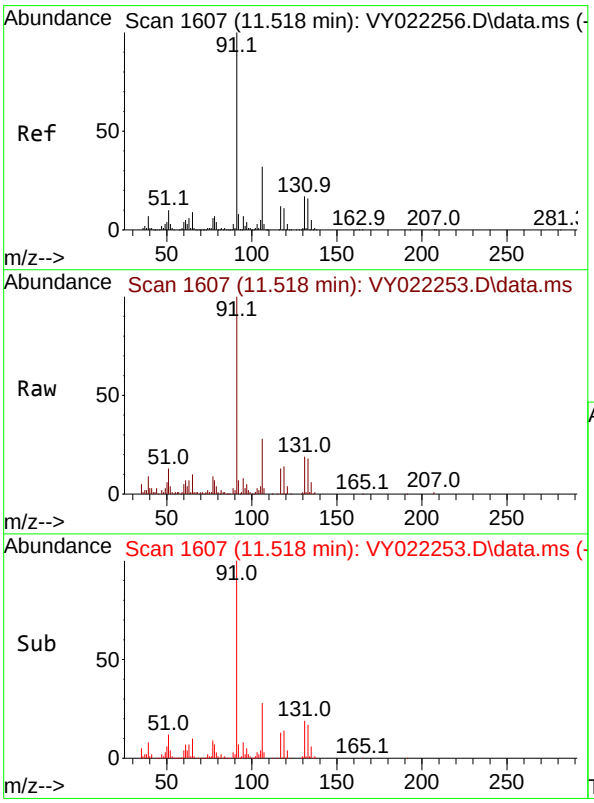
#65
Chlorobenzene
Concen: 4.927 ug/l
RT: 11.444 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion:112 Resp: 42844

Ion	Ratio	Lower	Upper
112	100		
114	32.6	25.8	38.6

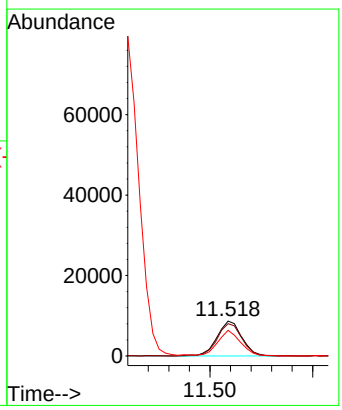


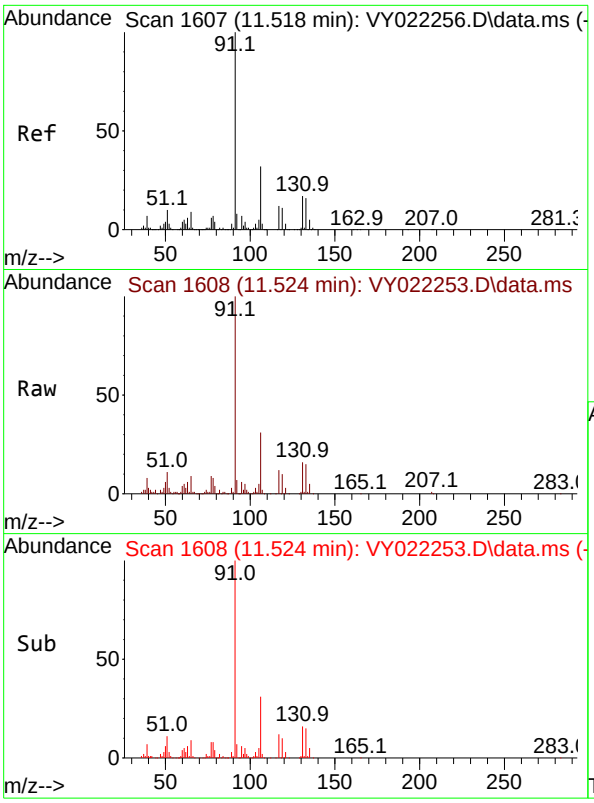


#66
1,1,1,2-Tetrachloroethane
Concen: 4.812 ug/l
RT: 11.518 min Scan# 1607
Delta R.T. 0.000 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion:131 Resp: 14385

Ion	Ratio	Lower	Upper
131	100		
133	94.9	47.3	141.9
119	68.6	33.1	99.2



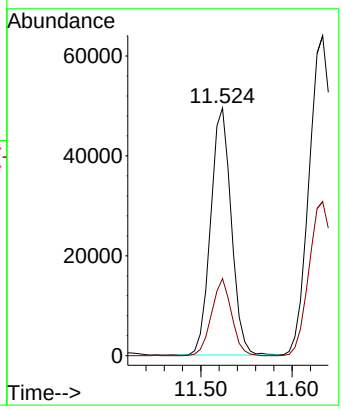


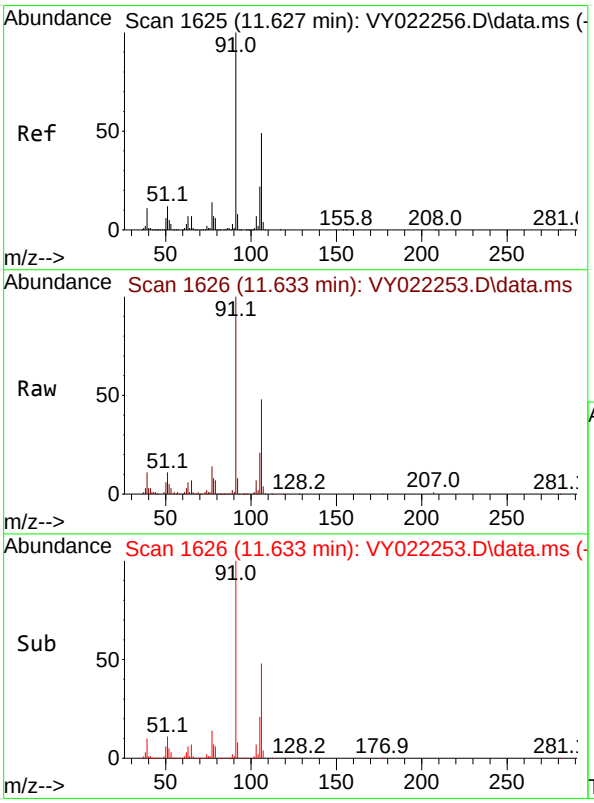
#67
Ethyl Benzene
Concen: 4.766 ug/l
RT: 11.524 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 91 Resp: 77606

Ion	Ratio	Lower	Upper
91	100		
106	31.2	25.4	38.0

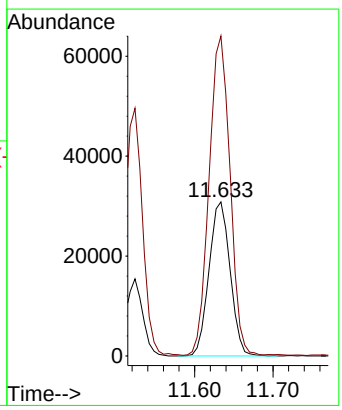


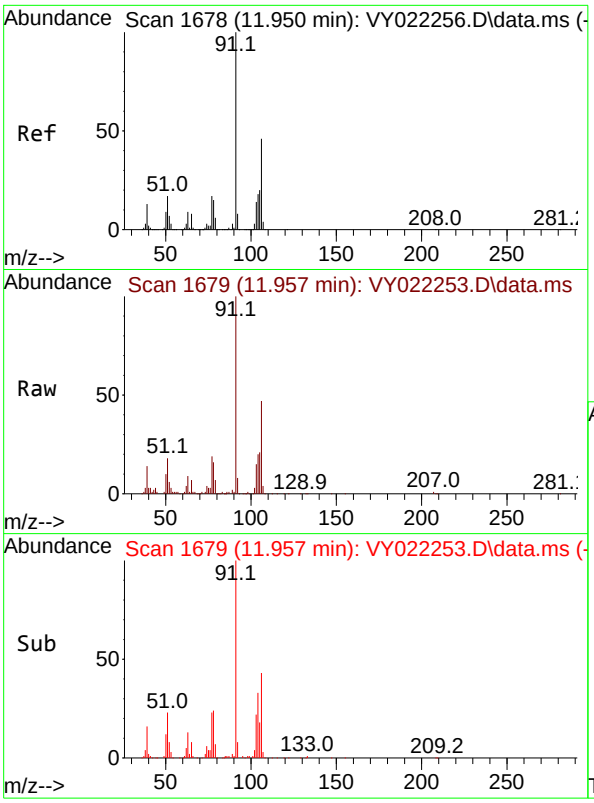


#68
m/p-Xylenes
Concen: 9.407 ug/l
RT: 11.633 min Scan# 1626
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion:106 Resp: 57721

Ion	Ratio	Lower	Upper
106	100		
91	205.0	163.0	244.4



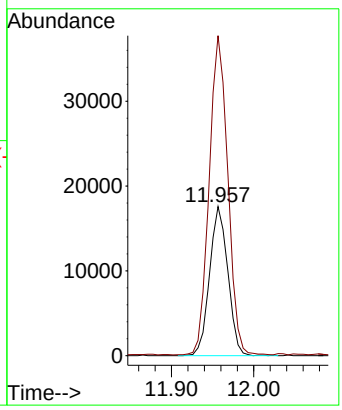


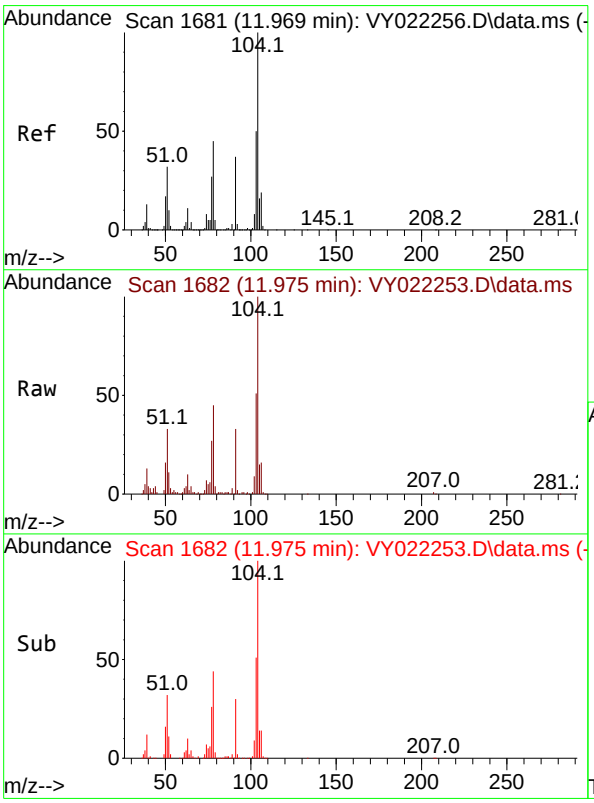
#69
o-Xylene
Concen: 4.673 ug/l
RT: 11.957 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion:106 Resp: 27130

Ion	Ratio	Lower	Upper
106	100		
91	218.6	108.3	324.8

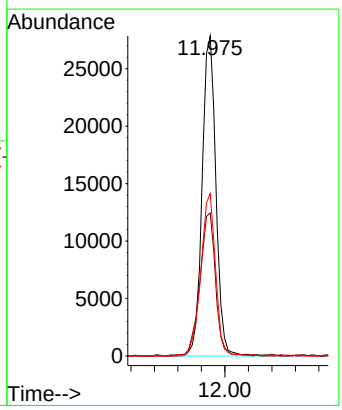


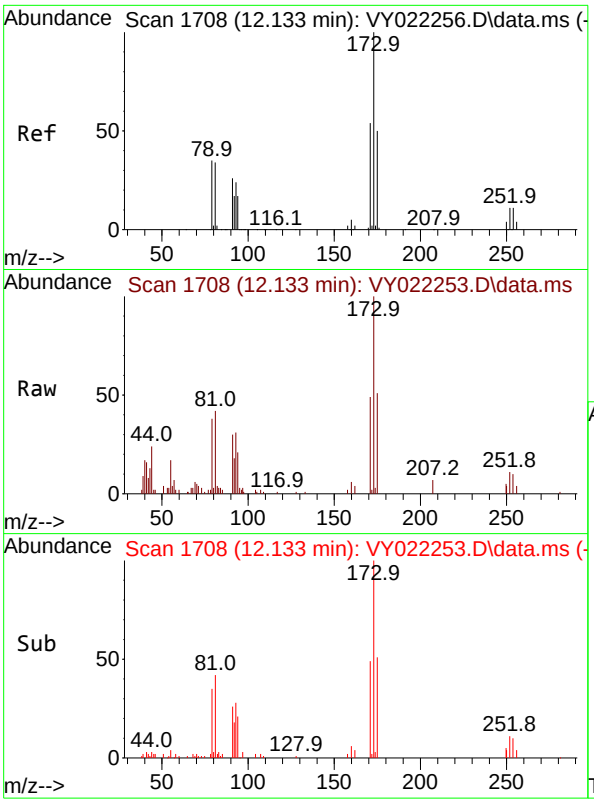


#70
Styrene
Concen: 4.652 ug/l
RT: 11.975 min Scan# 1682
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion:104 Resp: 45556

Ion	Ratio	Lower	Upper
104	100		
78	50.6	40.9	61.3
103	54.2	43.7	65.5



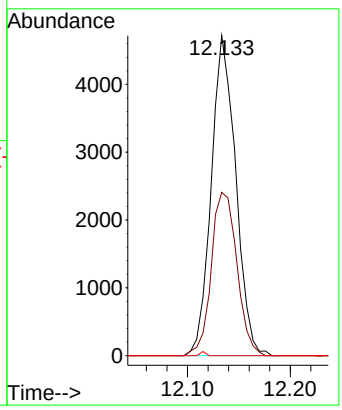


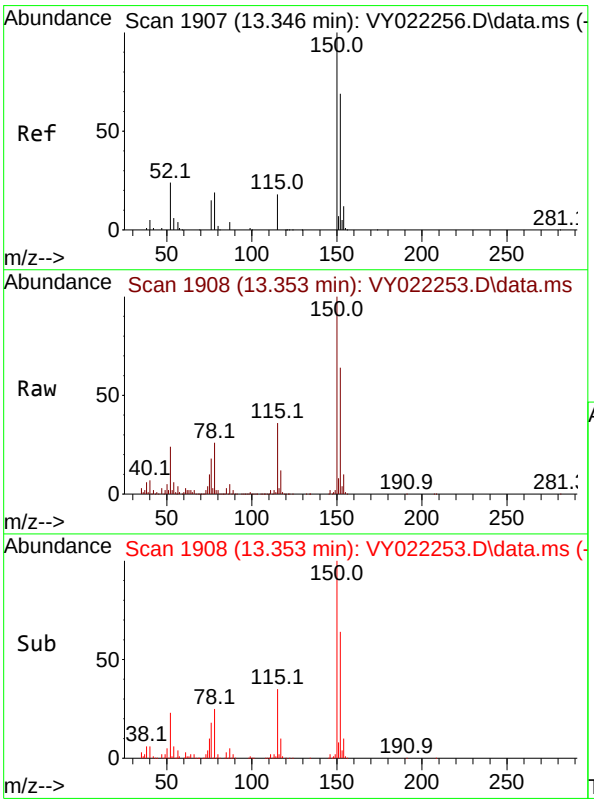
#71
Bromoform
Concen: 4.834 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion:173 Resp: 7799

Ion	Ratio	Lower	Upper
173	100		
175	53.5	24.7	74.1
254	0.3	0.0	0.0#

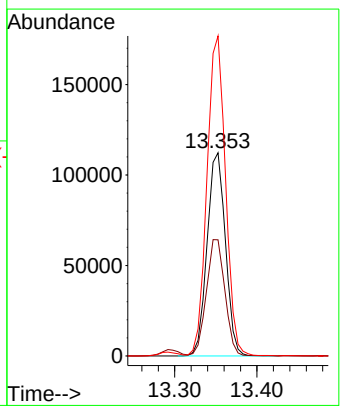


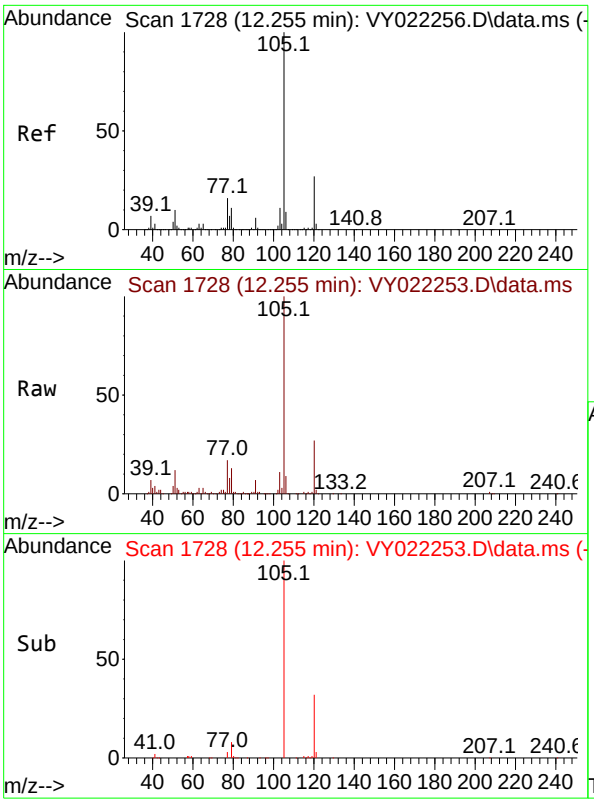


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.353 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion:152 Resp: 174003

Ion	Ratio	Lower	Upper
152	100		
115	58.0	29.4	88.2
150	158.8	0.0	353.8



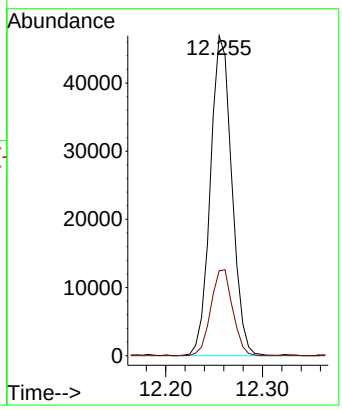


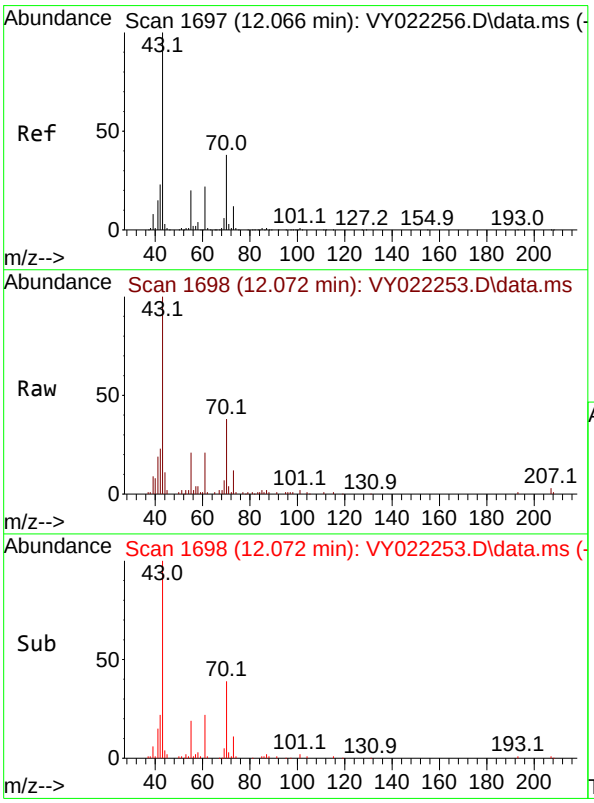
#73
Isopropylbenzene
Concen: 5.017 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion:105 Resp: 72325

Ion	Ratio	Lower	Upper
105	100		
120	27.3	13.2	39.6

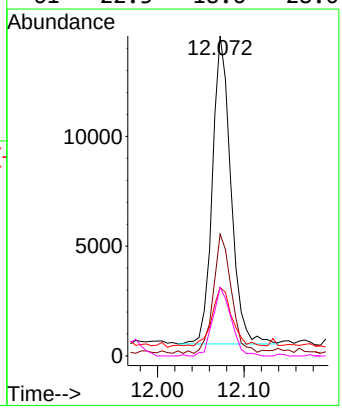


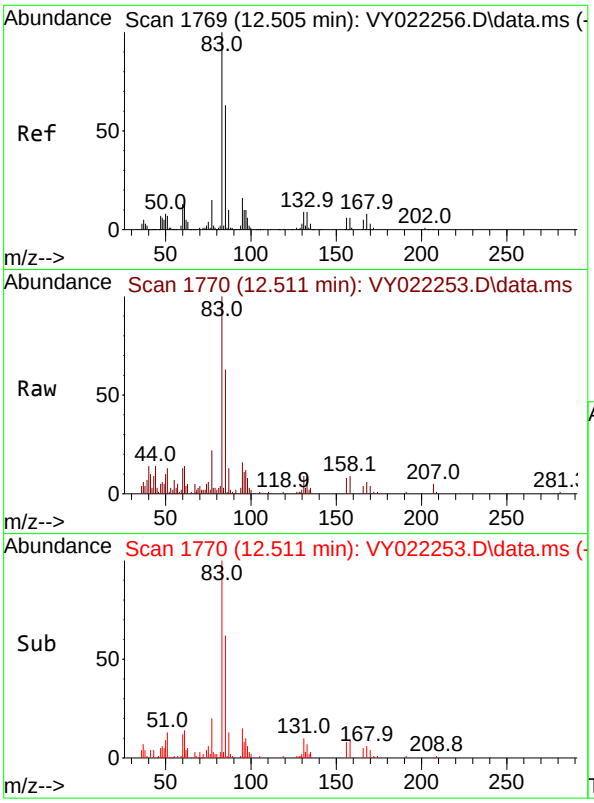


#74
N-amyl acetate
Concen: 5.043 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 43 Resp: 20793

Ion	Ratio	Lower	Upper
43	100		
70	37.9	31.4	47.0
55	19.9	17.0	25.6
61	22.3	18.6	28.0



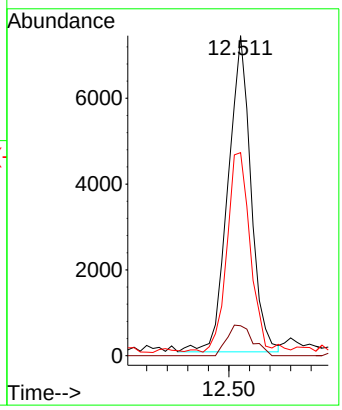


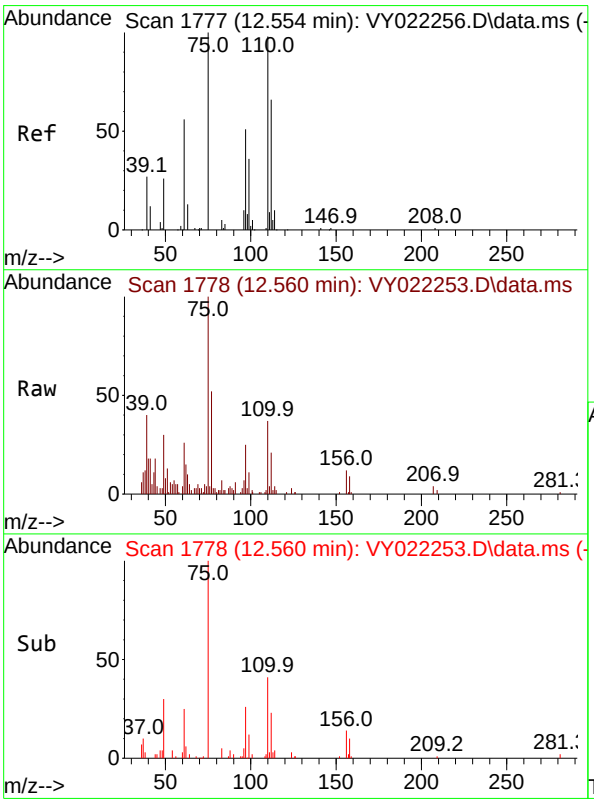
#75
1,1,2,2-Tetrachloroethane
Concen: 5.152 ug/l
RT: 12.511 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 83 Resp: 11422

Ion	Ratio	Lower	Upper
83	100		
131	10.9	4.9	14.7
85	63.6	32.0	96.0

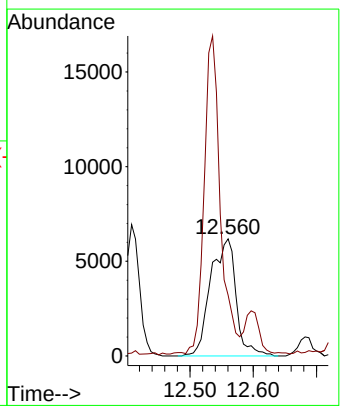


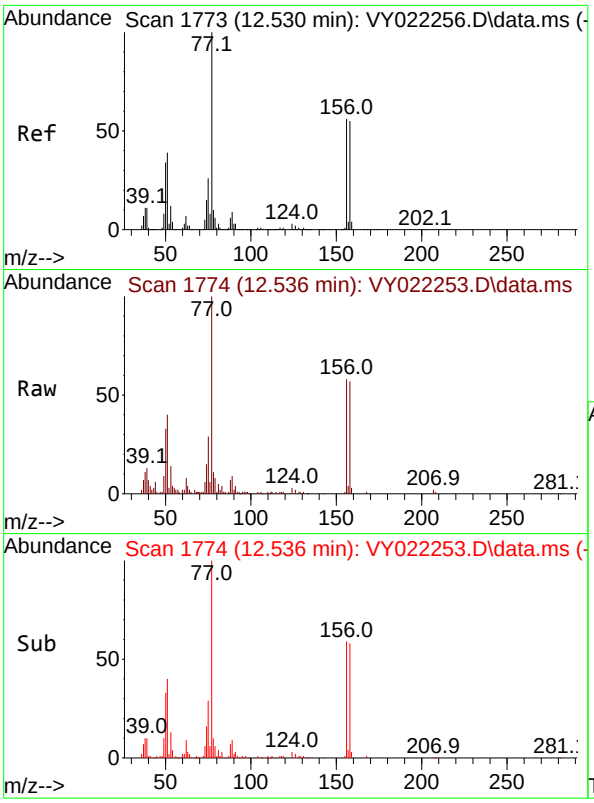


#76
1,2,3-Trichloropropane
Concen: 5.646 ug/l
RT: 12.560 min Scan# 1778
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 75 Resp: 17315

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0



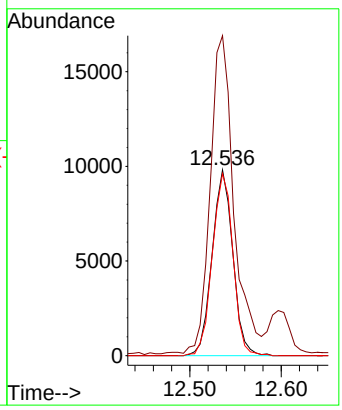


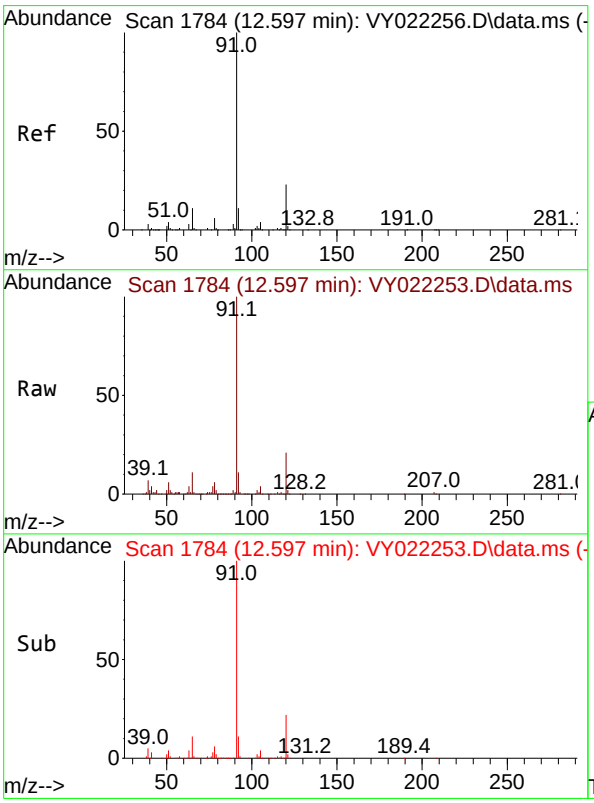
#77
Bromobenzene
Concen: 5.015 ug/l
RT: 12.536 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion:156 Resp: 15441

Ion	Ratio	Lower	Upper
156	100		
77	195.0	94.5	283.6
158	97.7	48.4	145.3

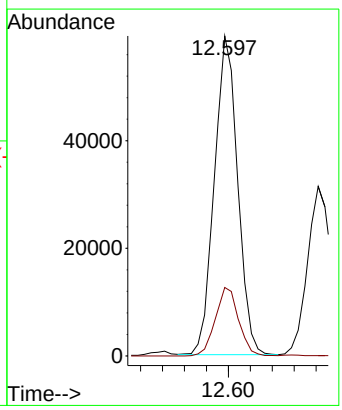


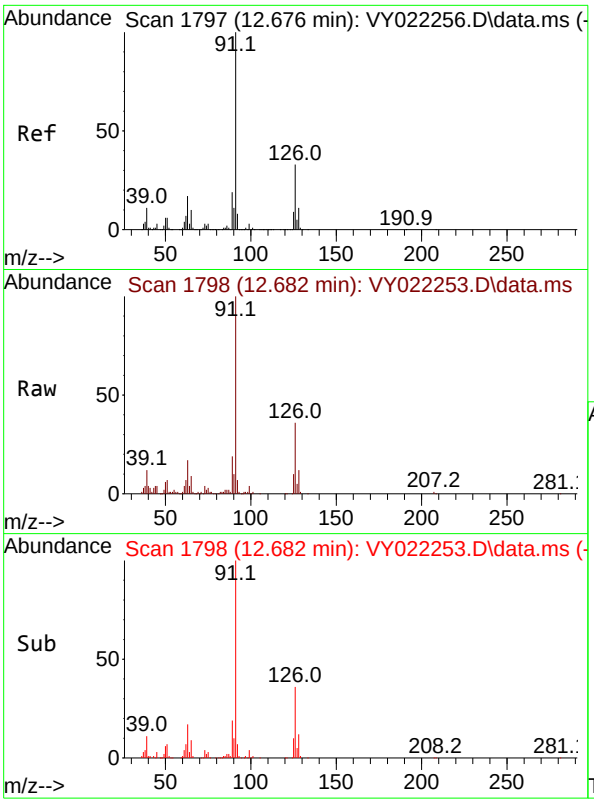


#78
n-propylbenzene
Concen: 5.034 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 91 Resp: 87533

Ion	Ratio	Lower	Upper
91	100		
120	21.4	11.1	33.3



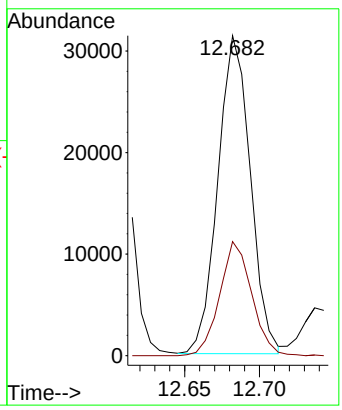


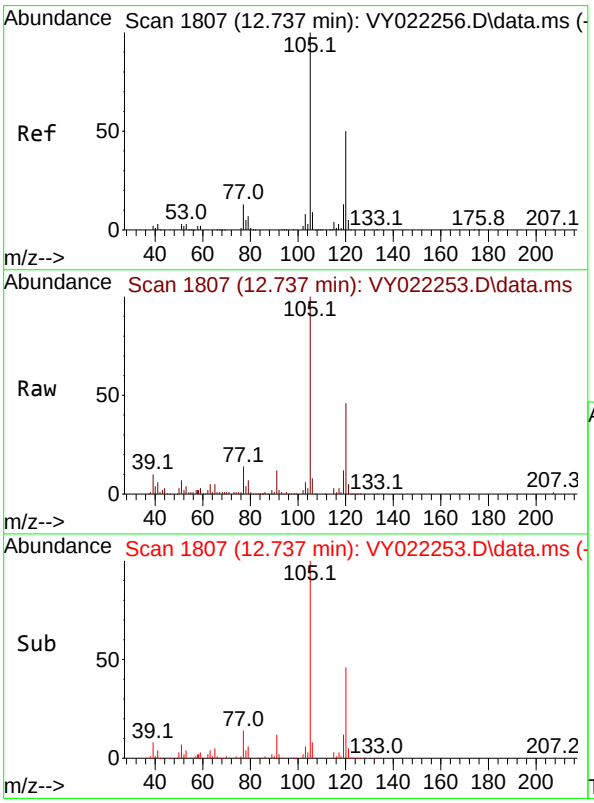
#79
2-Chlorotoluene
Concen: 4.944 ug/l
RT: 12.682 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 91 Resp: 47245

Ion	Ratio	Lower	Upper
91	100		
126	35.4	16.8	50.4

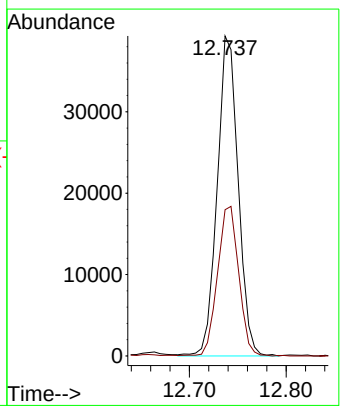


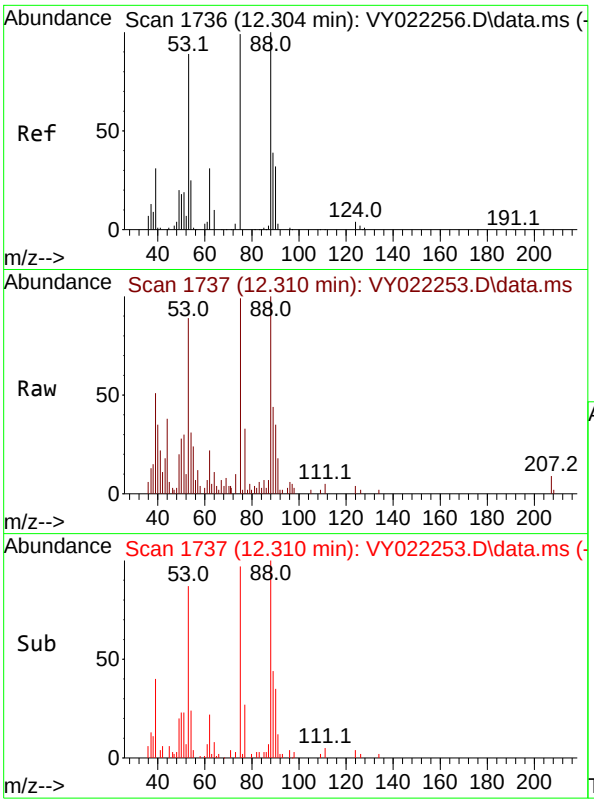


#80
1,3,5-Trimethylbenzene
Concen: 5.073 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion:105 Resp: 59031

Ion	Ratio	Lower	Upper
105	100		
120	47.3	24.2	72.6



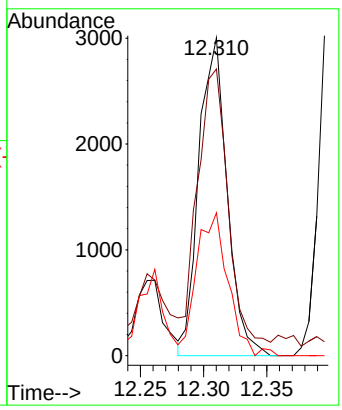


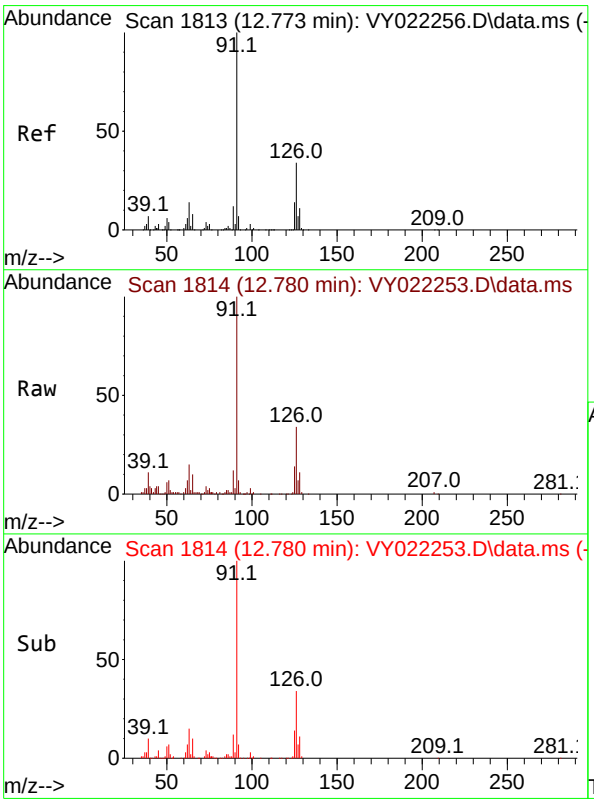
#81
trans-1,4-Dichloro-2-butene
Concen: 5.373 ug/l
RT: 12.310 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 75 Resp: 4676

Ion	Ratio	Lower	Upper
75	100		
53	93.6	75.8	113.8
89	50.0	36.2	54.2

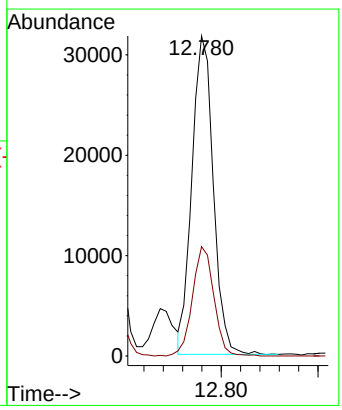


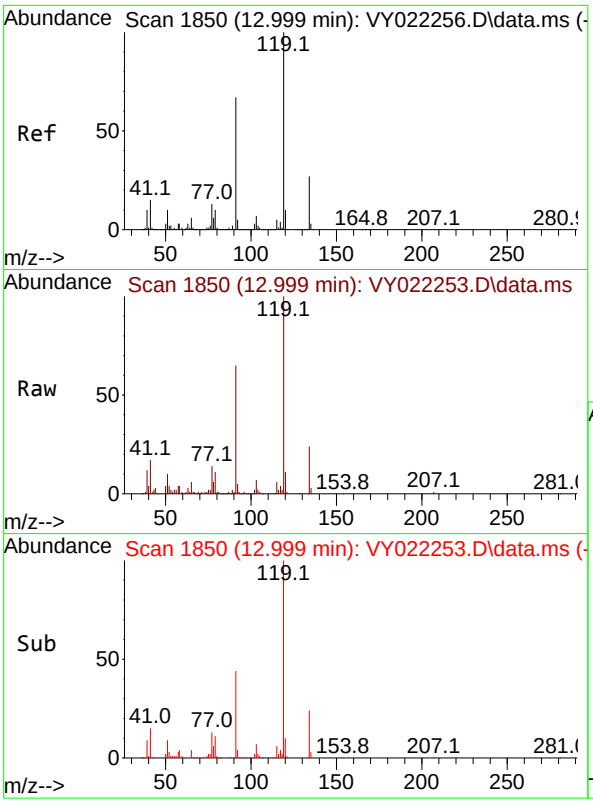


#82
4-Chlorotoluene
Concen: 4.959 ug/l
RT: 12.780 min Scan# 1814
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 91 Resp: 48737

Ion	Ratio	Lower	Upper
91	100		
126	34.5	16.8	50.4



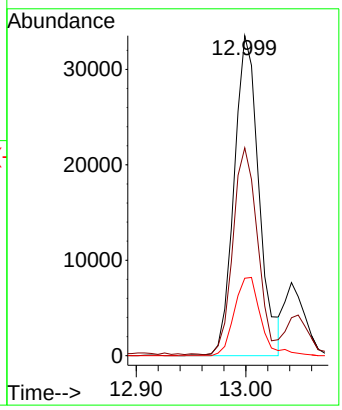


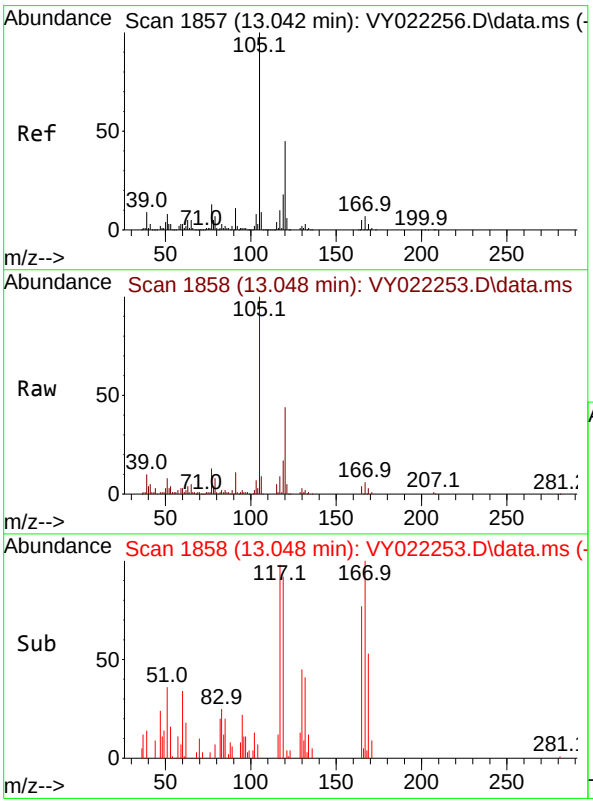
#83
tert-Butylbenzene
Concen: 5.109 ug/l
RT: 12.999 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion:119 Resp: 52841

Ion	Ratio	Lower	Upper
119	100		
91	64.1	32.8	98.3
134	26.0	12.9	38.6

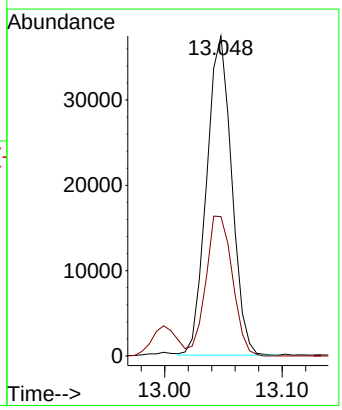


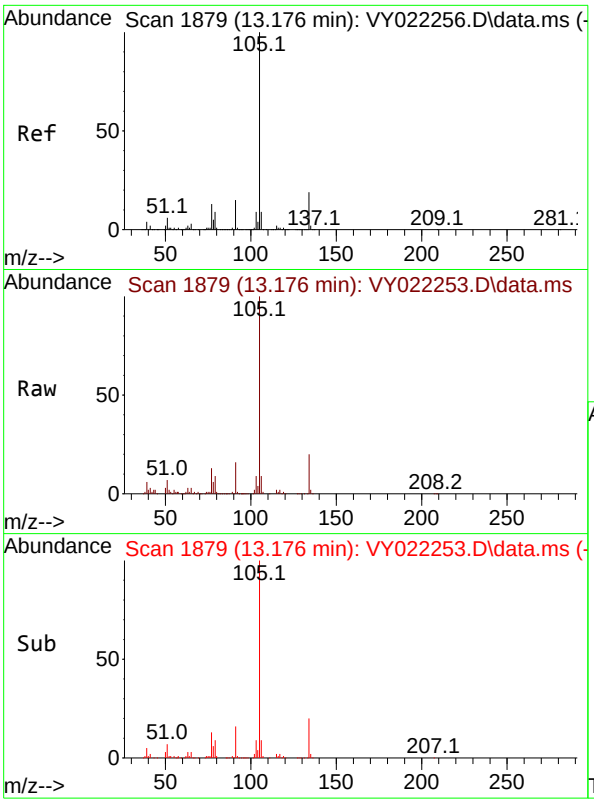


#84
1,2,4-Trimethylbenzene
Concen: 4.804 ug/l
RT: 13.048 min Scan# 1858
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion:105 Resp: 55488

Ion	Ratio	Lower	Upper
105	100		
120	46.5	22.3	66.9



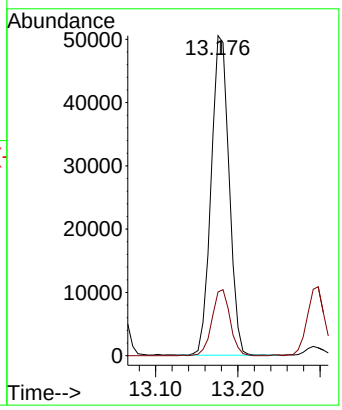


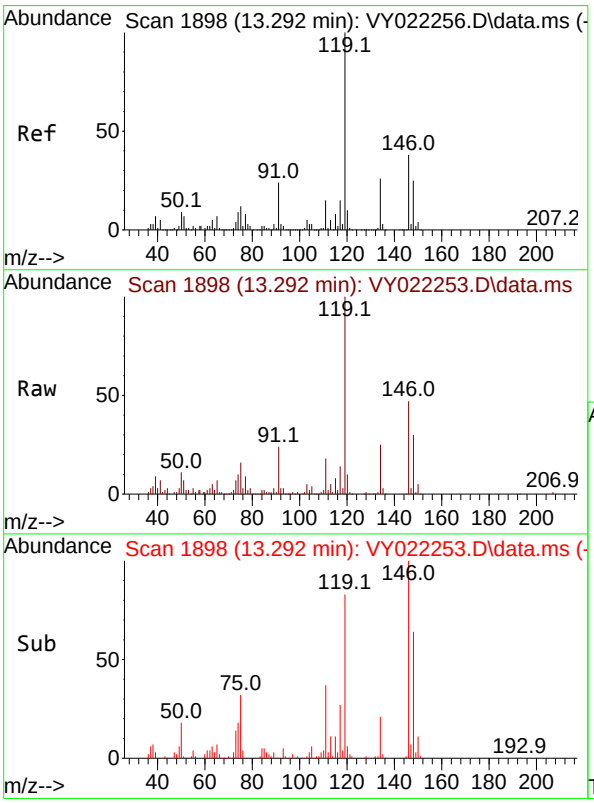
#85
sec-Butylbenzene
Concen: 4.975 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion:105 Resp: 76384

Ion	Ratio	Lower	Upper
105	100		
134	20.9	9.8	29.5

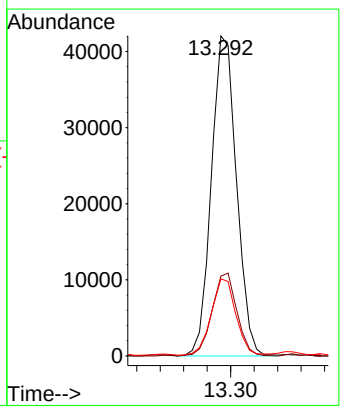


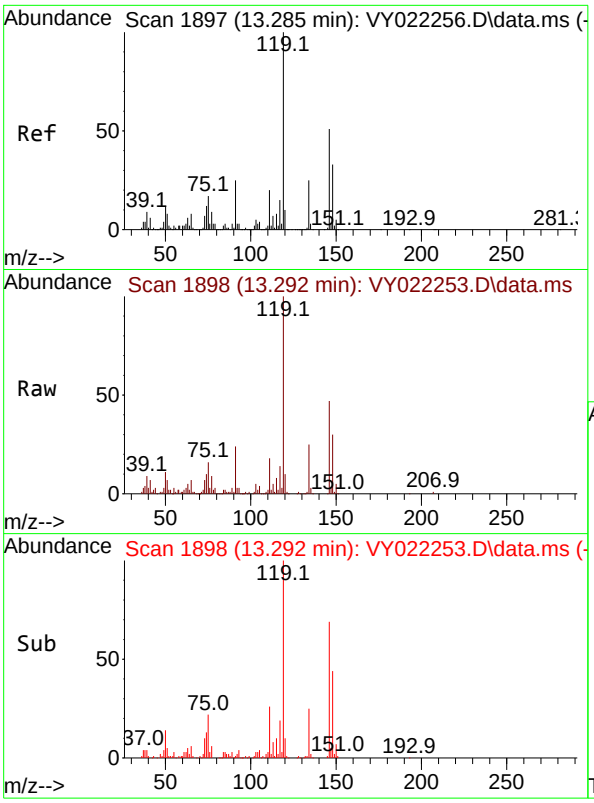


#86
p-Isopropyltoluene
Concen: 4.849 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.000 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion:119 Resp: 62608

Ion	Ratio	Lower	Upper
119	100		
134	25.5	12.9	38.6
91	23.2	12.1	36.3



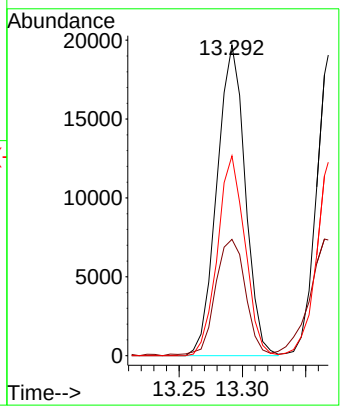


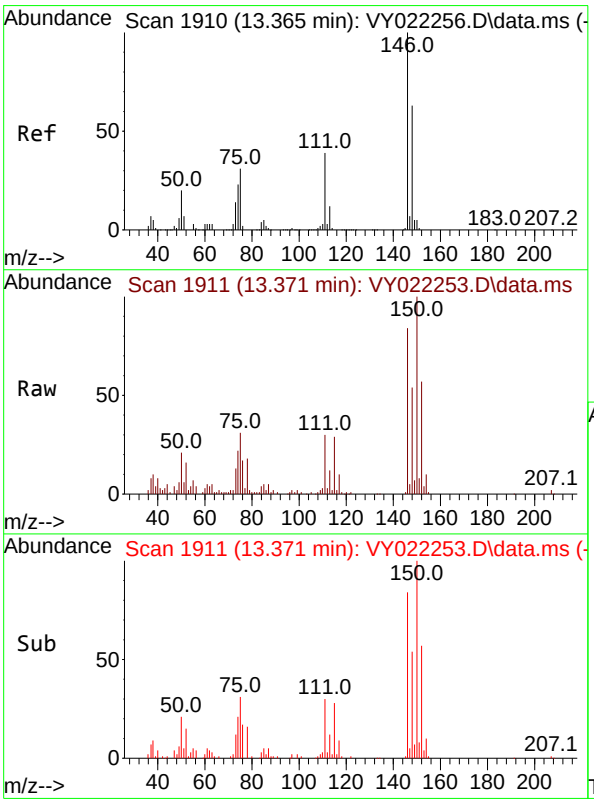
#87
1,3-Dichlorobenzene
Concen: 4.863 ug/l
RT: 13.292 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion:146 Resp: 30564

Ion	Ratio	Lower	Upper
146	100		
111	39.9	19.9	59.7
148	62.5	31.9	95.7

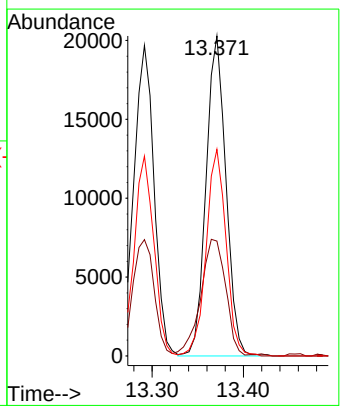


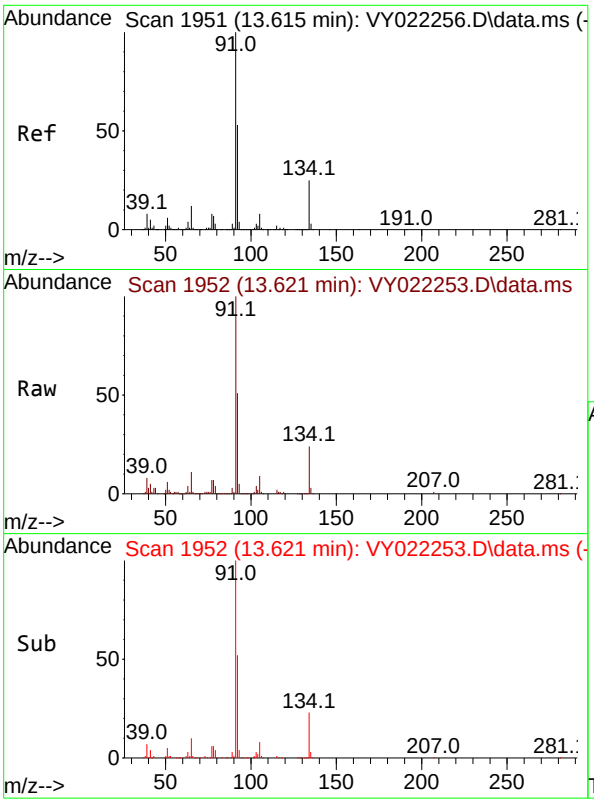


#88
1,4-Dichlorobenzene
Concen: 5.063 ug/l
RT: 13.371 min Scan# 1911
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion:146 Resp: 30610

Ion	Ratio	Lower	Upper
146	100		
111	45.2	20.0	59.9
148	64.8	32.1	96.5



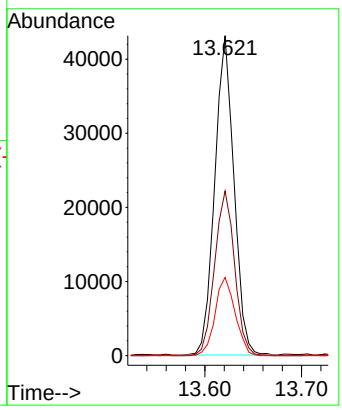


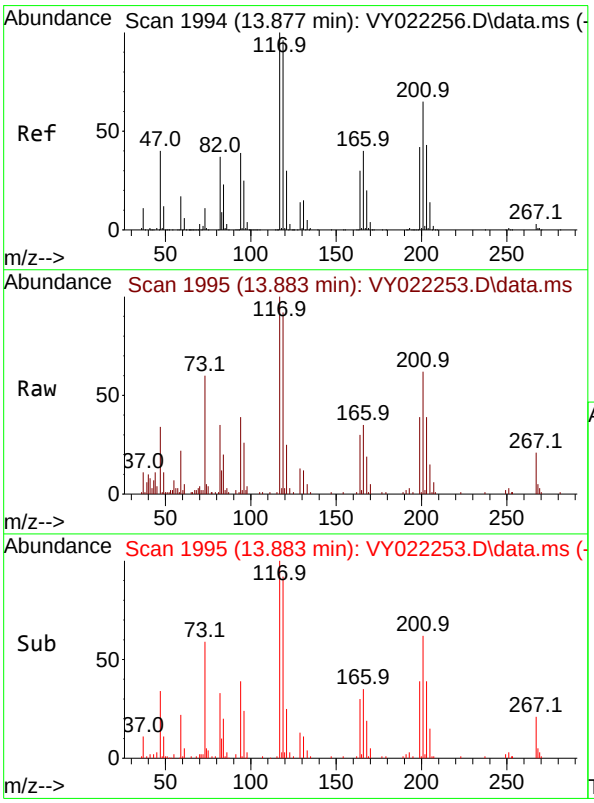
#89
n-Butylbenzene
Concen: 4.869 ug/l
RT: 13.621 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 91 Resp: 59485

Ion	Ratio	Lower	Upper
91	100		
92	53.6	26.3	78.9
134	25.6	12.4	37.4

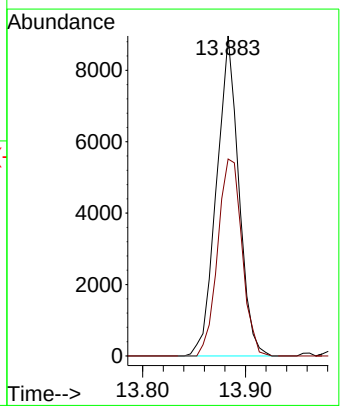


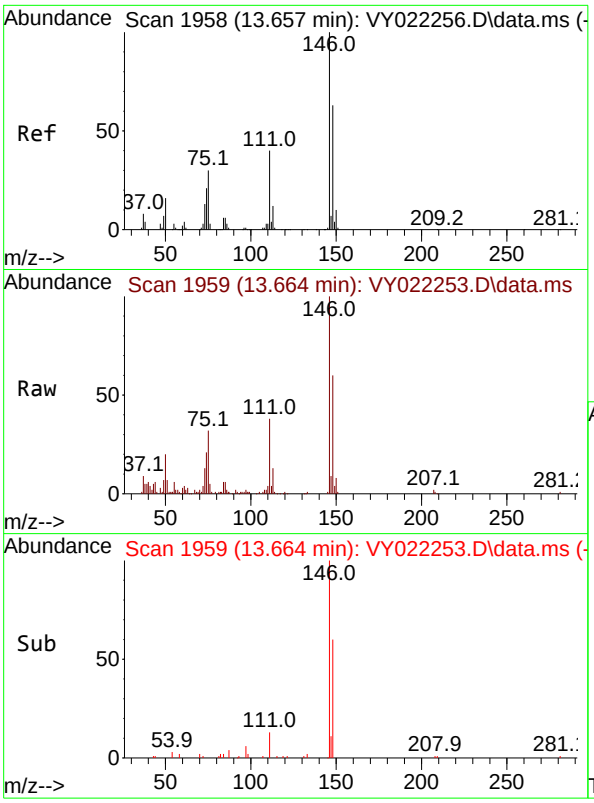


#90
Hexachloroethane
Concen: 5.158 ug/l
RT: 13.883 min Scan# 1995
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion:117 Resp: 13445

Ion	Ratio	Lower	Upper
117	100		
201	67.2	35.2	105.6



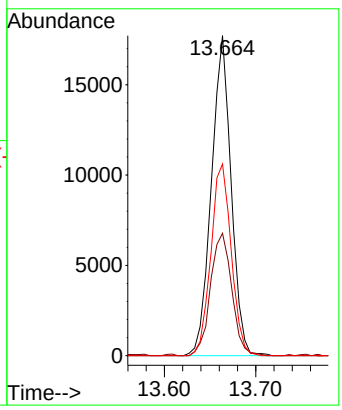


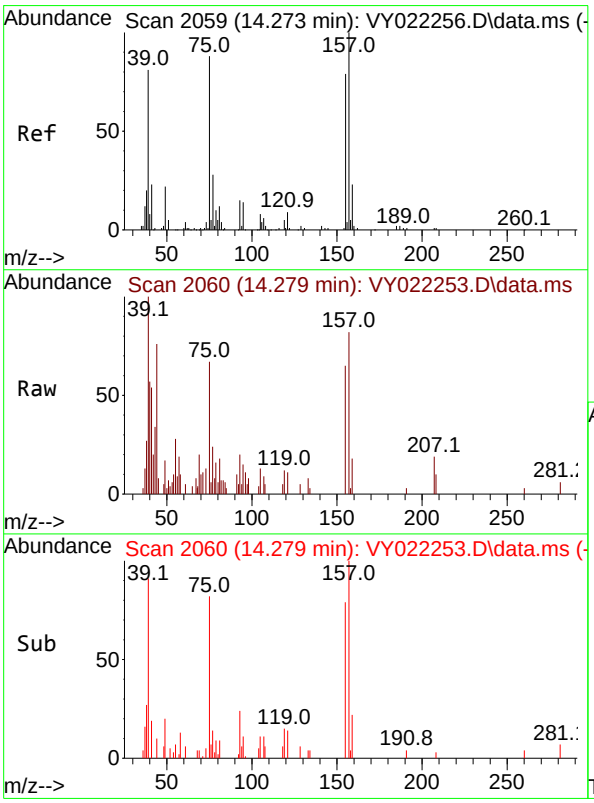
#91
1,2-Dichlorobenzene
Concen: 5.030 ug/l
RT: 13.664 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion:146 Resp: 26556

Ion	Ratio	Lower	Upper
146	100		
111	41.2	20.5	61.5
148	61.8	32.0	96.0

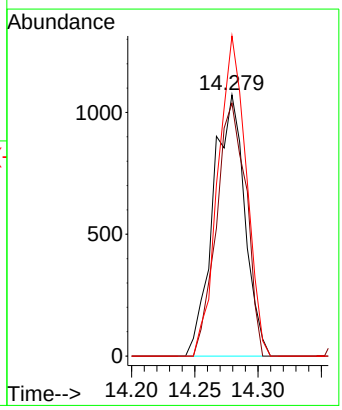


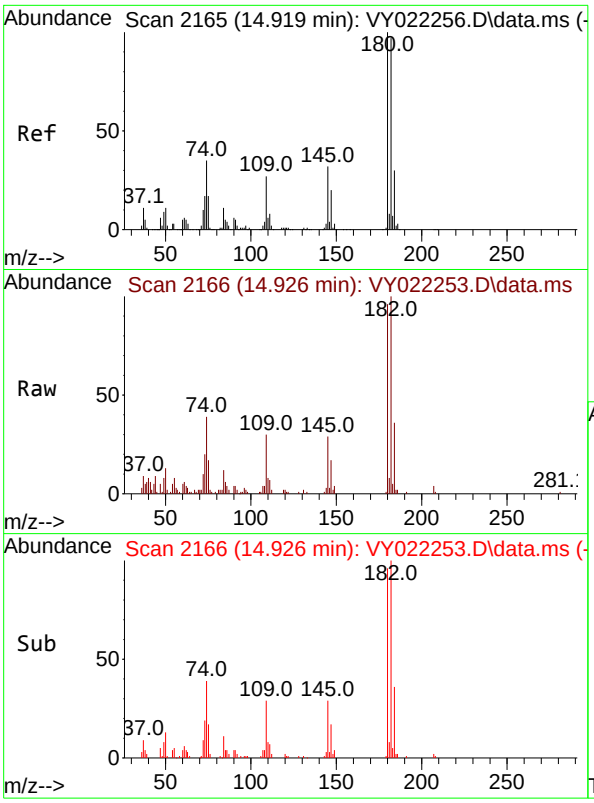


#92
1,2-Dibromo-3-Chloropropane
Concen: 5.217 ug/l
RT: 14.279 min Scan# 2060
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion: 75 Resp: 1865

Ion	Ratio	Lower	Upper
75	100		
155	90.8	43.4	130.1
157	109.4	54.6	163.9



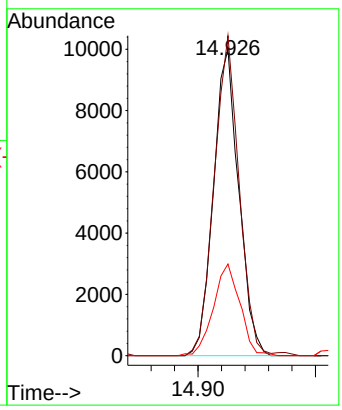


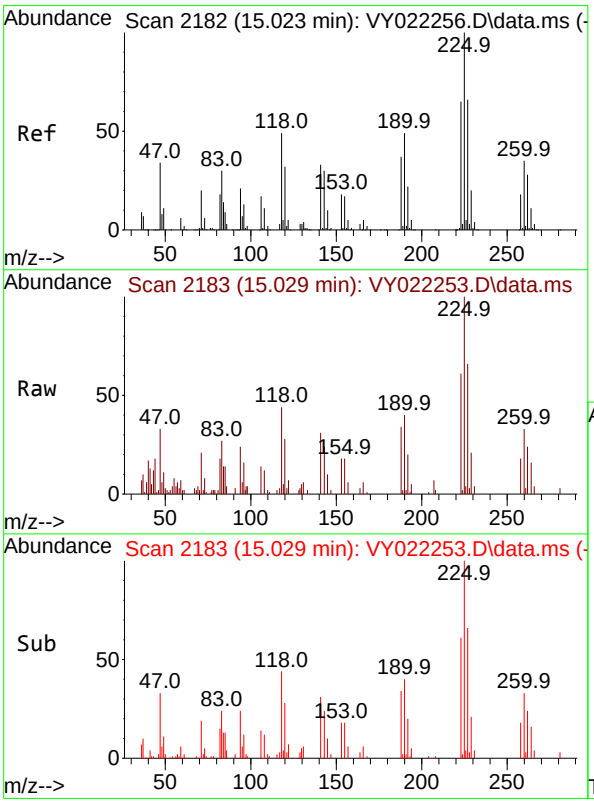
#93
1,2,4-Trichlorobenzene
Concen: 4.906 ug/l
RT: 14.926 min Scan# 21
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion:180 Resp: 14961

Ion	Ratio	Lower	Upper
180	100		
182	103.3	48.0	144.0
145	31.4	15.0	45.1

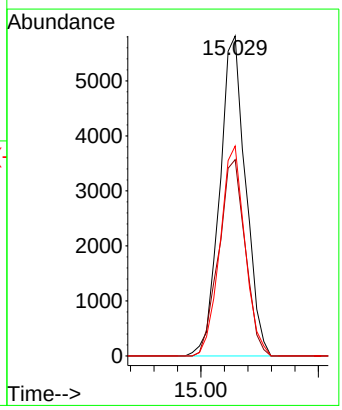


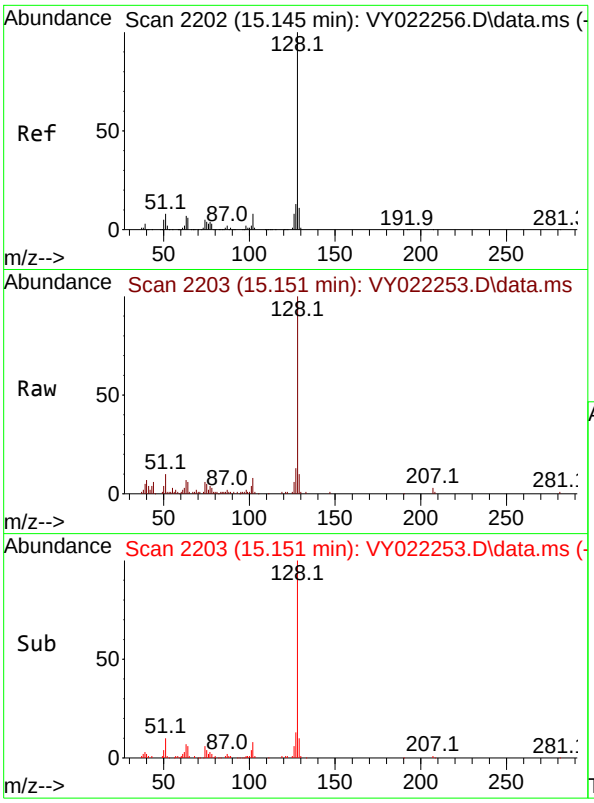


#94
Hexachlorobutadiene
Concen: 5.226 ug/l
RT: 15.029 min Scan# 2183
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion:225 Resp: 8887

Ion	Ratio	Lower	Upper
225	100		
223	62.6	31.5	94.5
227	63.3	32.1	96.3



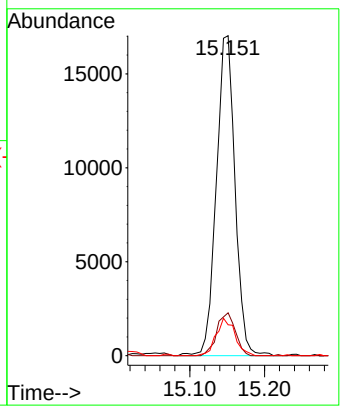


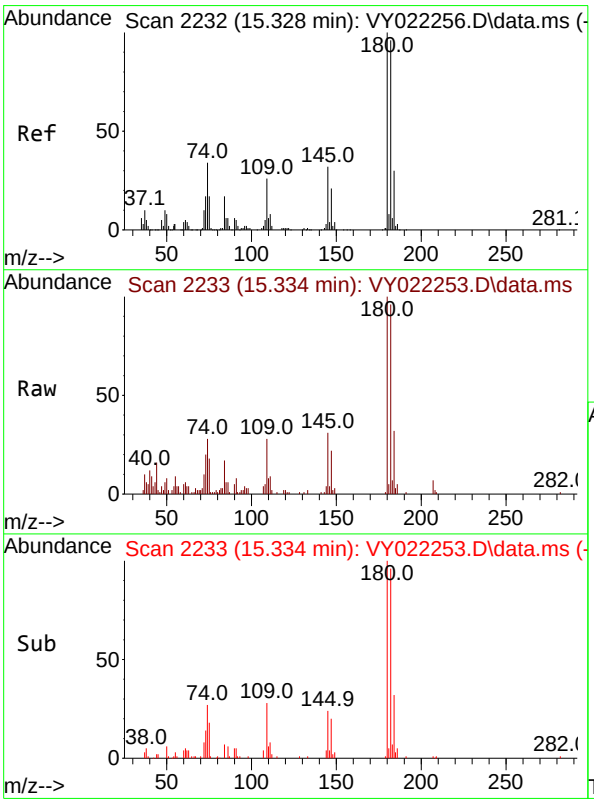
#95
Naphthalene
Concen: 5.124 ug/l
RT: 15.151 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion:128 Resp: 29654

Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.2	15.2
129	11.7	8.8	13.2

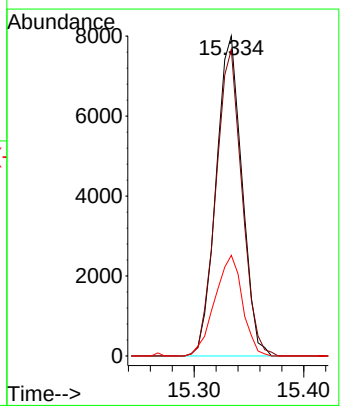




#96
1,2,3-Trichlorobenzene
Concen: 5.063 ug/l
RT: 15.334 min Scan# 2233
Delta R.T. 0.006 min
Lab File: VY022253.D
Acq: 15 May 2025 09:46

Tgt Ion:180 Resp: 13097

Ion	Ratio	Lower	Upper
180	100		
182	96.6	47.1	141.3
145	33.7	15.9	47.6



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022254.D
Acq On : 15 May 2025 10:16
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Quant Time: May 16 01:21:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:19:39 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	265034	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	446109	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	377211	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	171972	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	29608	10.222	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	20.440%#		
35) Dibromofluoromethane	7.634	113	26242	9.856	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	19.720%#		
50) Toluene-d8	10.109	98	107048	9.816	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	19.640%#		
62) 4-Bromofluorobenzene	12.408	95	34423	9.959	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	19.920%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	31097	11.245	ug/l	99
3) Chloromethane	2.068	50	65589	11.275	ug/l	98
4) Vinyl Chloride	2.202	62	69800	10.739	ug/l	95
5) Bromomethane	2.592	94	54773	10.352	ug/l	99
6) Chloroethane	2.732	64	43122	10.665	ug/l	99
7) Trichlorofluoromethane	3.056	101	68501	10.410	ug/l	99
8) Diethyl Ether	3.458	74	16945	10.730	ug/l	96
9) 1,1,2-Trichlorotrifluo...	3.812	101	30591	10.708	ug/l	99
10) Methyl Iodide	4.007	142	31088	9.402	ug/l	97
11) Tert butyl alcohol	4.878	59	12043	54.446	ug/l #	100
12) 1,1-Dichloroethene	3.793	96	28831	10.170	ug/l	95
13) Acrolein	3.659	56	17927	55.439	ug/l	96
14) Allyl chloride	4.378	41	51275	10.315	ug/l	99
15) Acrylonitrile	5.061	53	33277	51.139	ug/l	100
16) Acetone	3.879	43	30229	55.657	ug/l	100
17) Carbon Disulfide	4.104	76	96591	10.448	ug/l	97
18) Methyl Acetate	4.385	43	16338	9.886	ug/l	94
19) Methyl tert-butyl Ether	5.116	73	80714	10.326	ug/l	96
20) Methylene Chloride	4.622	84	42991	12.250	ug/l	95
21) trans-1,2-Dichloroethene	5.116	96	32258	10.309	ug/l	98
22) Diisopropyl ether	6.018	45	106493	10.145	ug/l	94
23) Vinyl Acetate	5.964	43	324651	51.192	ug/l	100
24) 1,1-Dichloroethane	5.915	63	60198	10.265	ug/l	97
25) 2-Butanone	6.896	43	48022	52.859	ug/l	98
26) 2,2-Dichloropropane	6.890	77	54264	10.403	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	36403	10.081	ug/l	98
28) Bromochloromethane	7.244	49	25664	10.259	ug/l	98
29) Tetrahydrofuran	7.274	42	30684	52.498	ug/l	98
30) Chloroform	7.421	83	57172	10.163	ug/l	100
31) Cyclohexane	7.701	56	63155	10.778	ug/l	95
32) 1,1,1-Trichloroethane	7.622	97	52856	10.242	ug/l	99
36) 1,1-Dichloropropene	7.835	75	44817	10.219	ug/l	97
37) Ethyl Acetate	6.994	43	20624	9.774	ug/l	97
38) Carbon Tetrachloride	7.817	117	46772	10.303	ug/l	97
39) Methylcyclohexane	9.109	83	60489	10.266	ug/l	98
40) Benzene	8.079	78	130423	10.032	ug/l	100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022254.D
Acq On : 15 May 2025 10:16
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Quant Time: May 16 01:21:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:19:39 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.219	41	11895	7.704	ug/l	#	85
42) 1,2-Dichloroethane	8.158	62	35565	10.115	ug/l		100
43) Isopropyl Acetate	8.201	43	47020	10.217	ug/l		98
44) Trichloroethene	8.865	130	32655	10.101	ug/l		99
45) 1,2-Dichloropropane	9.140	63	32172	10.264	ug/l		93
46) Dibromomethane	9.231	93	17134	10.135	ug/l		99
47) Bromodichloromethane	9.426	83	44045	10.042	ug/l		96
48) Methyl methacrylate	9.225	41	21202	9.851	ug/l		98
49) 1,4-Dioxane	9.231	88	3930	205.769	ug/l	#	75
51) 4-Methyl-2-Pentanone	9.999	43	110396	48.889	ug/l		100
52) Toluene	10.170	92	82453	10.015	ug/l		96
53) t-1,3-Dichloropropene	10.396	75	42158	9.849	ug/l		96
54) cis-1,3-Dichloropropene	9.859	75	48923	9.976	ug/l		96
55) 1,1,2-Trichloroethane	10.572	97	21720	10.033	ug/l		97
56) Ethyl methacrylate	10.438	69	32286	9.574	ug/l		98
57) 1,3-Dichloropropane	10.719	76	38908	10.115	ug/l		98
58) 2-Chloroethyl Vinyl ether	9.713	63	66700	44.066	ug/l		100
59) 2-Hexanone	10.761	43	74432	49.162	ug/l		99
60) Dibromochloromethane	10.914	129	28002	9.965	ug/l		99
61) 1,2-Dibromoethane	11.018	107	20378	10.099	ug/l		99
64) Tetrachloroethene	10.646	164	36274	10.404	ug/l		99
65) Chlorobenzene	11.444	112	83730	9.839	ug/l		97
66) 1,1,1,2-Tetrachloroethane	11.517	131	28441	9.721	ug/l		97
67) Ethyl Benzene	11.517	91	154155	9.672	ug/l		97
68) m/p-Xylenes	11.627	106	116113	19.334	ug/l		99
69) o-Xylene	11.956	106	55896	9.837	ug/l		96
70) Styrene	11.969	104	91569	9.553	ug/l		99
71) Bromoform	12.133	173	16151	10.228	ug/l	#	95
73) Isopropylbenzene	12.255	105	144186	10.120	ug/l		99
74) N-amyl acetate	12.072	43	40345	9.901	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.505	83	22243	10.152	ug/l		96
76) 1,2,3-Trichloropropane	12.560	75	33075	10.913	ug/l	#	100
77) Bromobenzene	12.536	156	30445	10.005	ug/l		99
78) n-propylbenzene	12.597	91	173575	10.101	ug/l		100
79) 2-Chlorotoluene	12.682	91	95815	10.146	ug/l		100
80) 1,3,5-Trimethylbenzene	12.737	105	116461	10.126	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.304	75	8934	10.388	ug/l		94
82) 4-Chlorotoluene	12.779	91	97309	10.018	ug/l		99
83) tert-Butylbenzene	12.999	119	102274	10.005	ug/l		99
84) 1,2,4-Trimethylbenzene	13.042	105	115175	10.088	ug/l		99
85) sec-Butylbenzene	13.176	105	153443	10.112	ug/l		100
86) p-Isopropyltoluene	13.291	119	124147	9.728	ug/l		100
87) 1,3-Dichlorobenzene	13.285	146	61011	9.822	ug/l		98
88) 1,4-Dichlorobenzene	13.365	146	60723	10.163	ug/l		97
89) n-Butylbenzene	13.621	91	120371	9.970	ug/l		99
90) Hexachloroethane	13.883	117	26089	10.127	ug/l		97
91) 1,2-Dichlorobenzene	13.663	146	52282	10.020	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	3588	10.155	ug/l		99
93) 1,2,4-Trichlorobenzene	14.925	180	29073	9.646	ug/l		99
94) Hexachlorobutadiene	15.023	225	16686	9.927	ug/l		98
95) Naphthalene	15.145	128	54307	9.495	ug/l		99
96) 1,2,3-Trichlorobenzene	15.328	180	24790	9.696	ug/l		98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022254.D
Acq On : 15 May 2025 10:16
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Quant Time: May 16 01:21:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:19:39 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022254.D
Acq On : 15 May 2025 10:16
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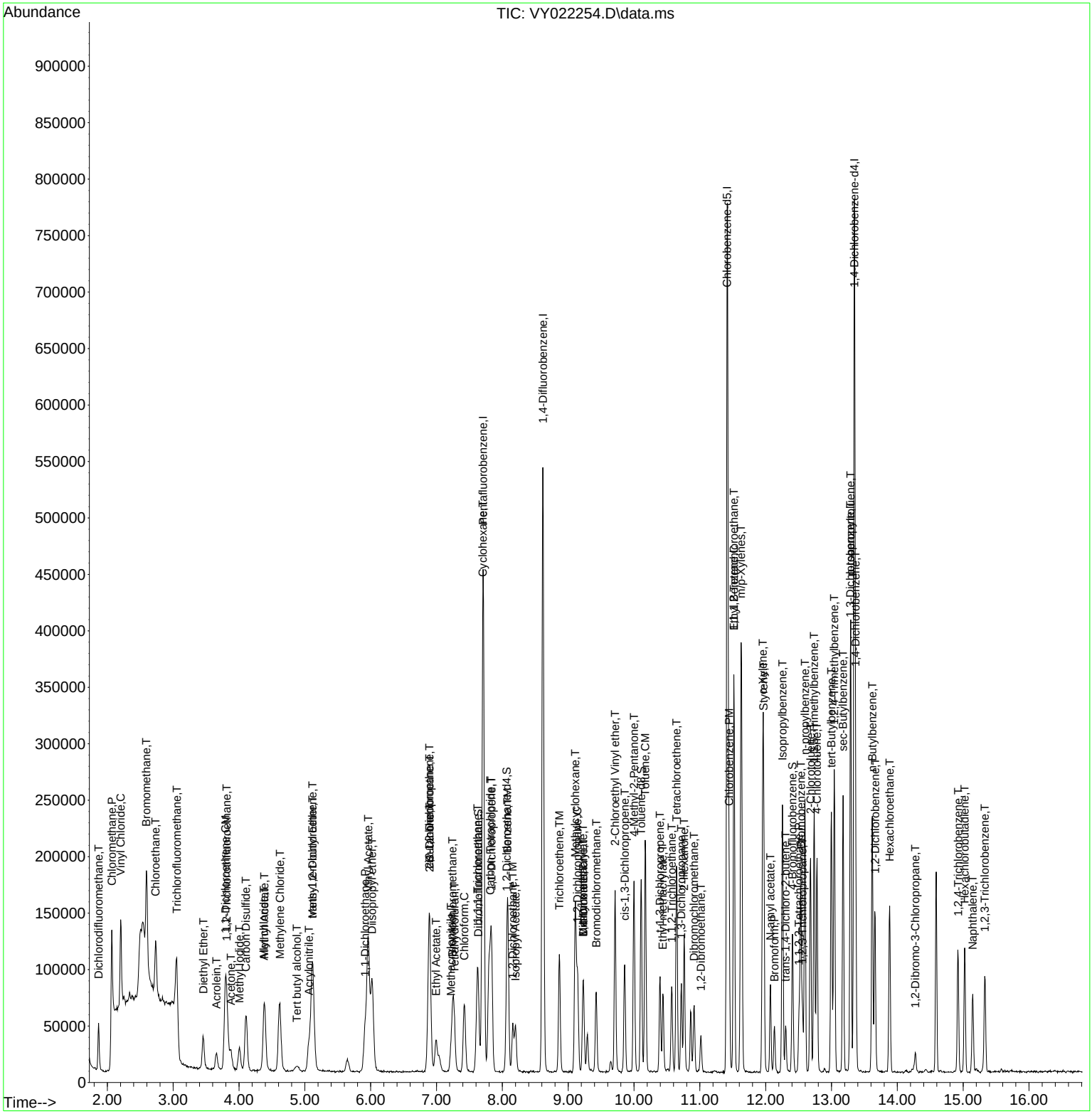
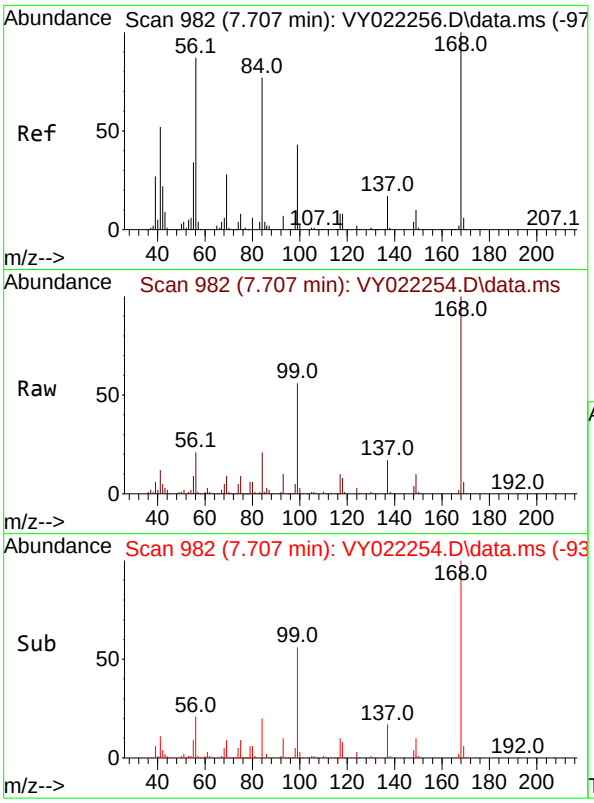
Quant Time: May 16 01:21:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:19:39 2025
Response via : Initial Calibration



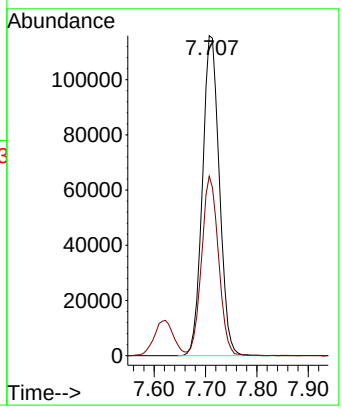


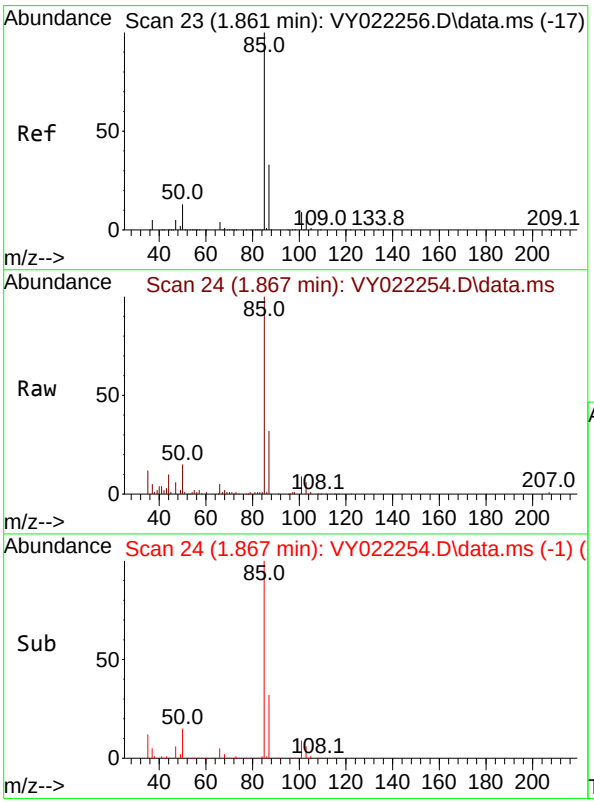
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion:168 Resp: 265034

Ion	Ratio	Lower	Upper
168	100		
99	56.1	44.2	66.4

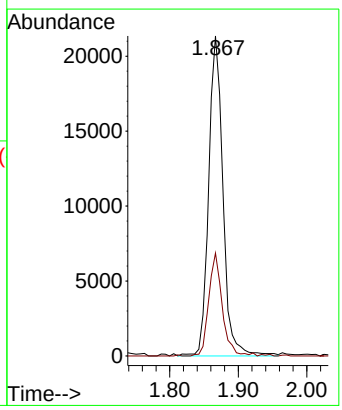


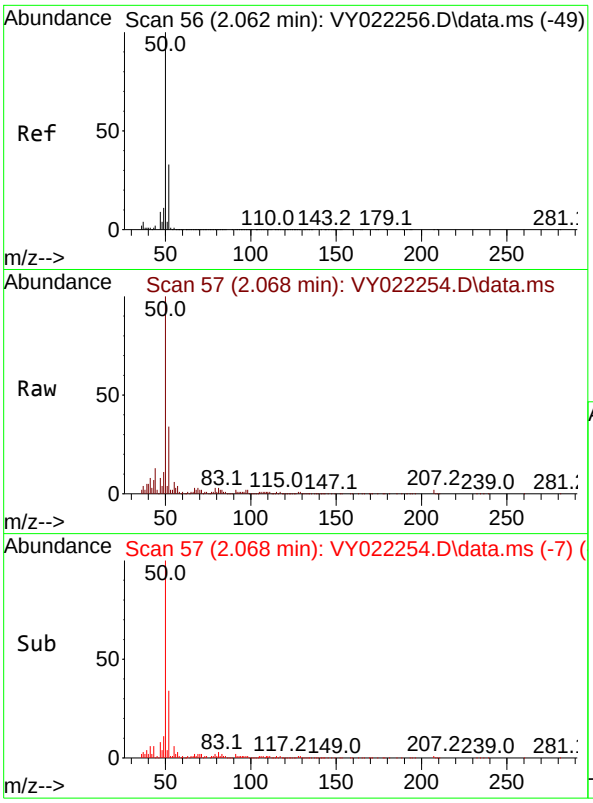


#2
Dichlorodifluoromethane
Concen: 11.245 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 85 Resp: 31097

Ion	Ratio	Lower	Upper
85	100		
87	32.2	16.5	49.5



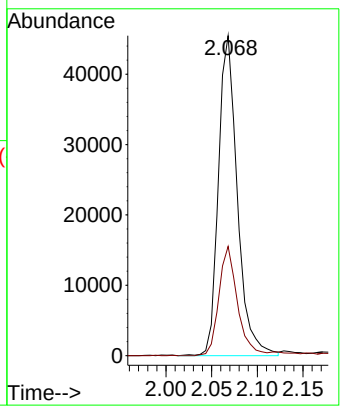


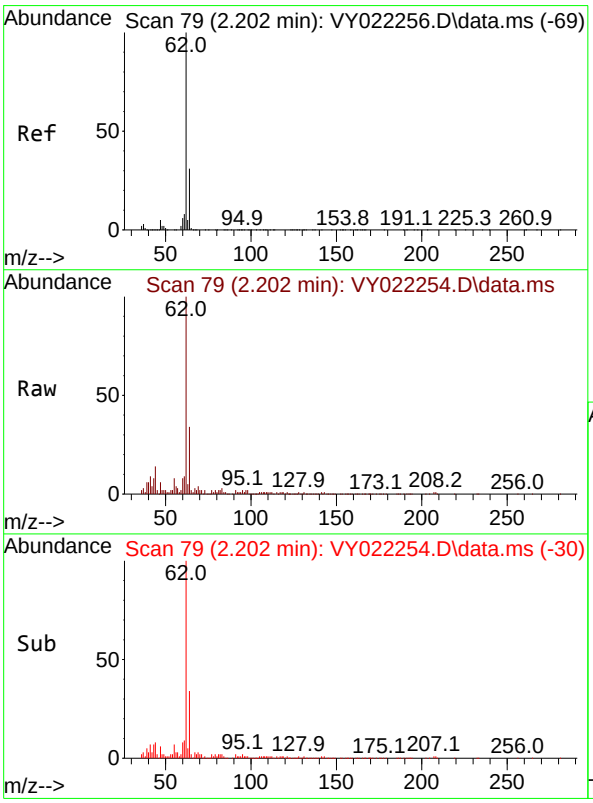
#3
Chloromethane
Concen: 11.275 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 50 Resp: 65589

Ion	Ratio	Lower	Upper
50	100		
52	34.1	26.5	39.7

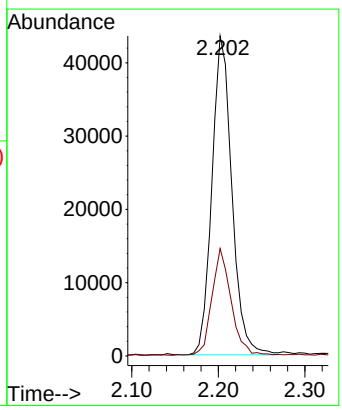


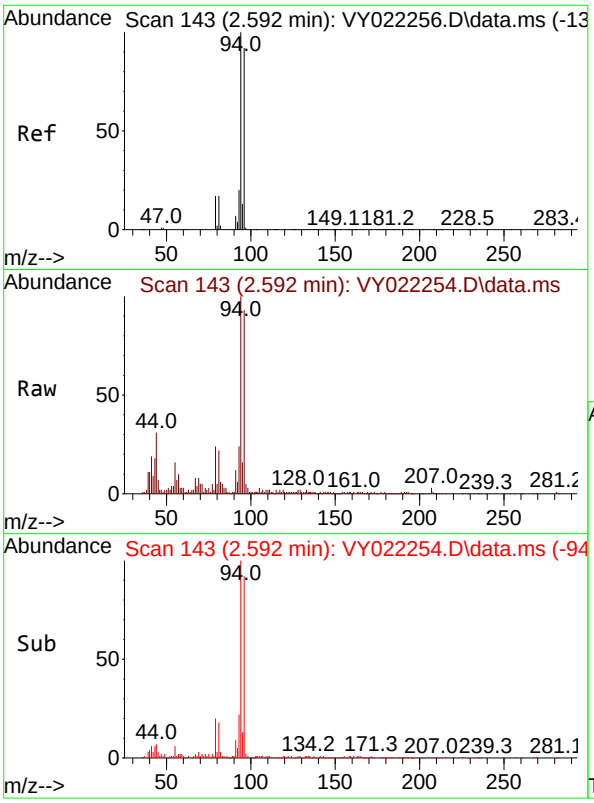


#4
Vinyl Chloride
Concen: 10.739 ug/l
RT: 2.202 min Scan# 79
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 62 Resp: 69800

Ion	Ratio	Lower	Upper
62	100		
64	33.2	24.5	36.7



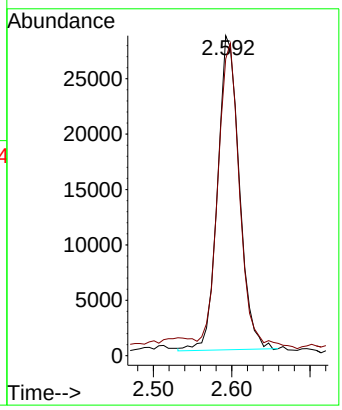


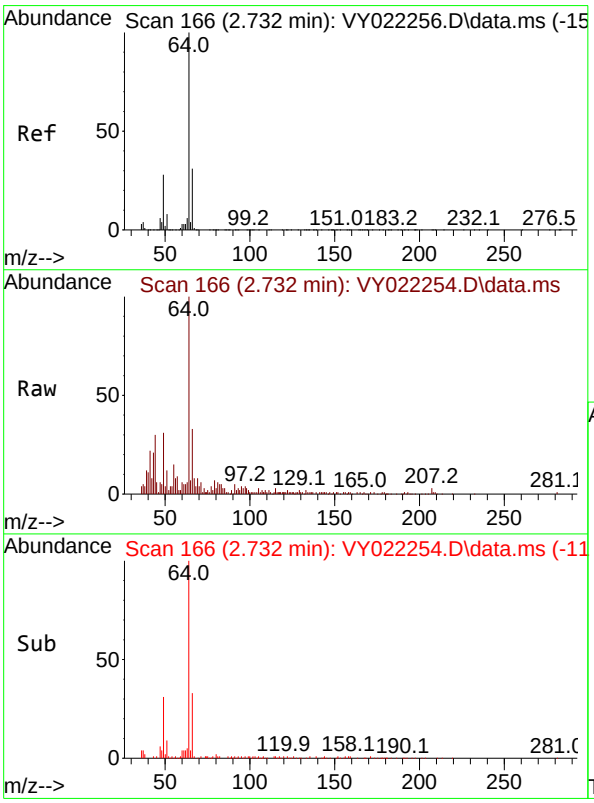
#5
Bromomethane
Concen: 10.352 ug/l
RT: 2.592 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 94 Resp: 54773

Ion	Ratio	Lower	Upper
94	100		
96	90.9	73.4	110.0

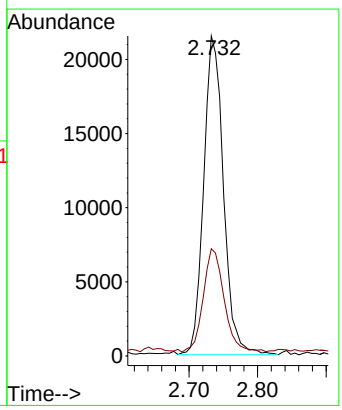


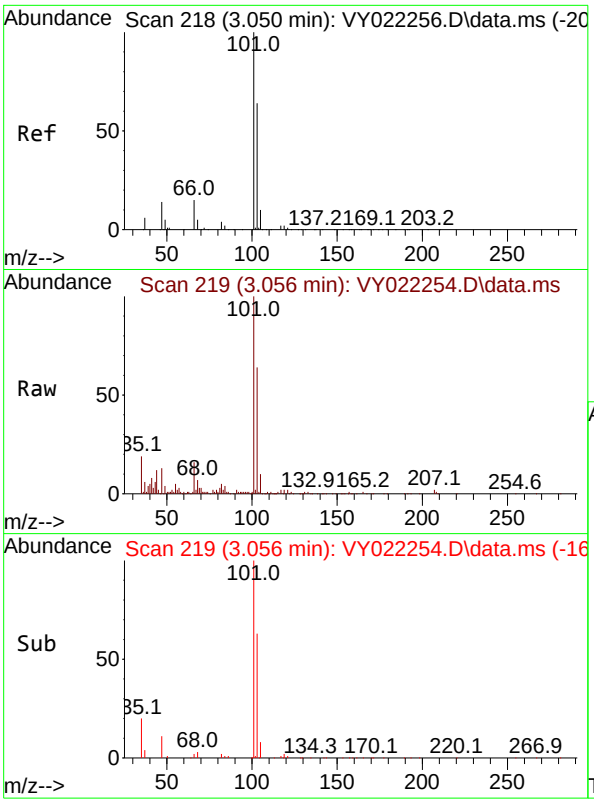


#6
Chloroethane
Concen: 10.665 ug/l
RT: 2.732 min Scan# 166
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 64 Resp: 43122

Ion	Ratio	Lower	Upper
64	100		
66	31.6	24.8	37.2



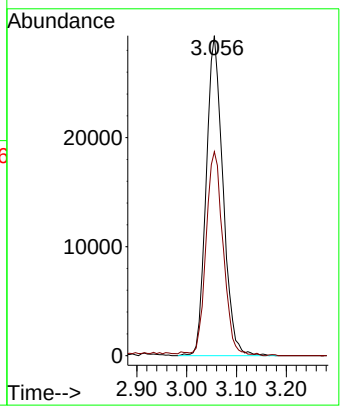


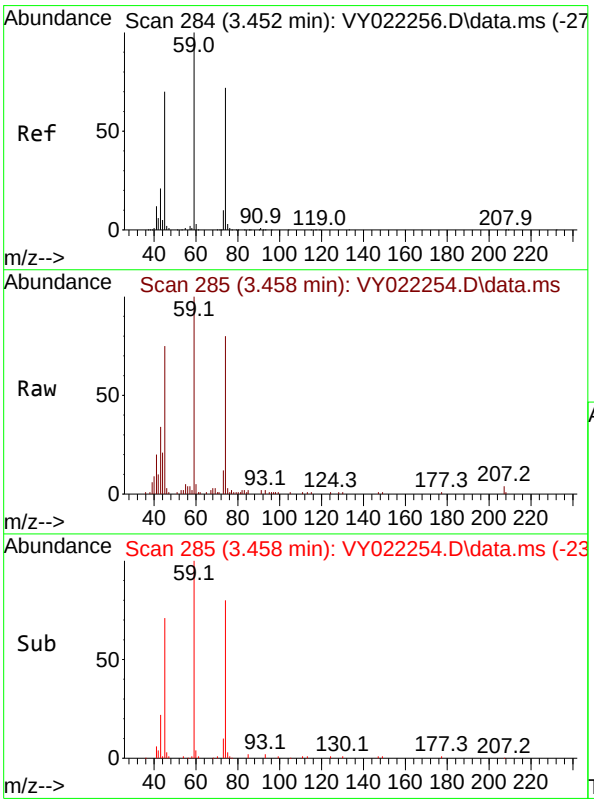
#7
Trichlorofluoromethane
Concen: 10.410 ug/l
RT: 3.056 min Scan# 21
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion:101 Resp: 68501

Ion	Ratio	Lower	Upper
101	100		
103	63.8	51.7	77.5

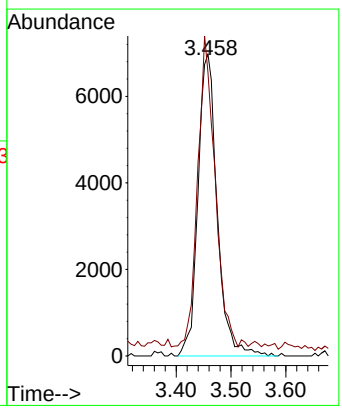


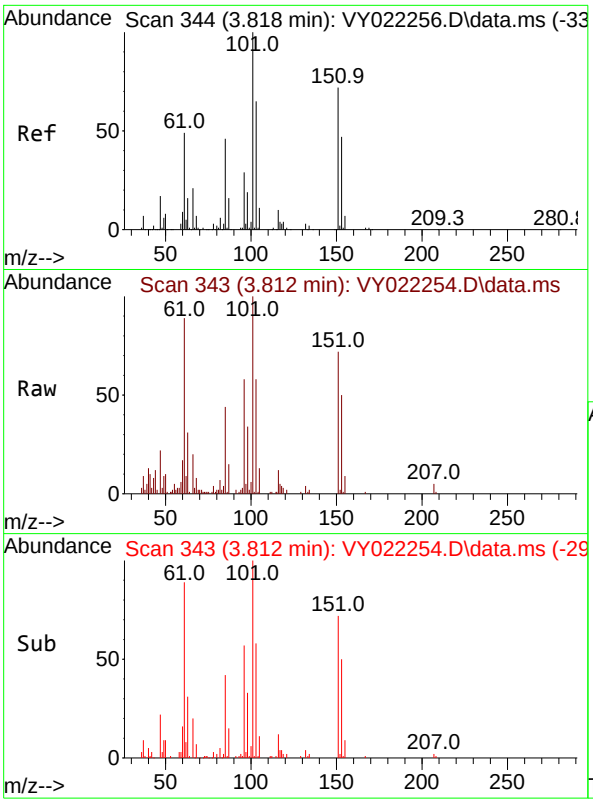


#8
Diethyl Ether
Concen: 10.730 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 74 Resp: 16945

Ion	Ratio	Lower	Upper
74	100		
45	93.2	48.6	145.8



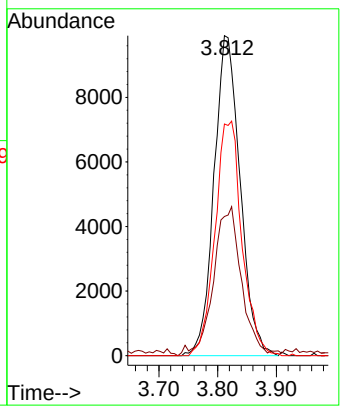


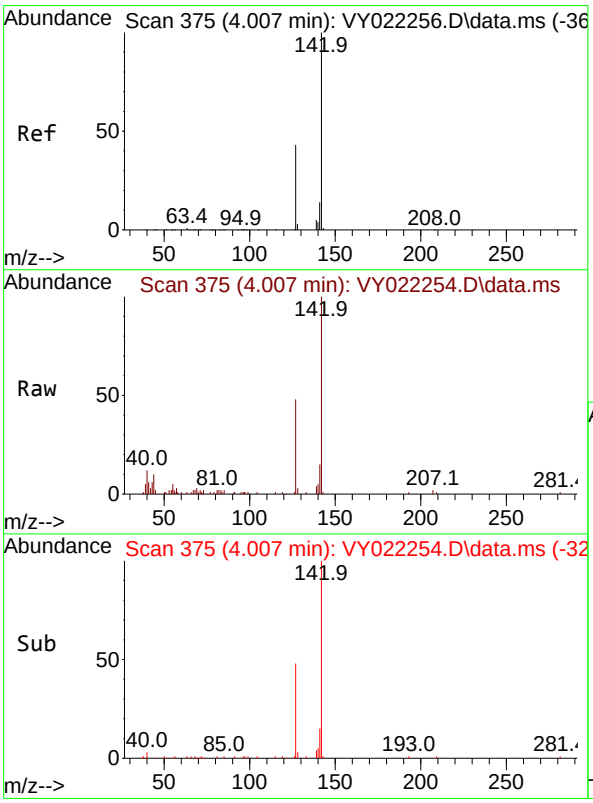
#9
1,1,2-Trichlorotrifluoroethane
Concen: 10.708 ug/l
RT: 3.812 min Scan# 34
Delta R.T. -0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion:101 Resp: 30591

Ion	Ratio	Lower	Upper
101	100		
85	47.5	38.6	58.0
151	75.6	59.7	89.5

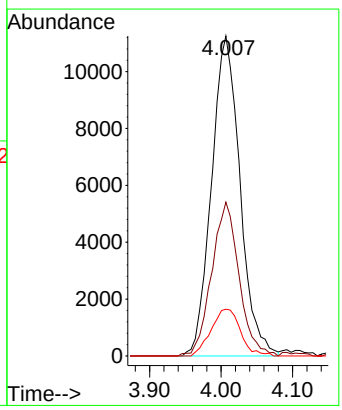


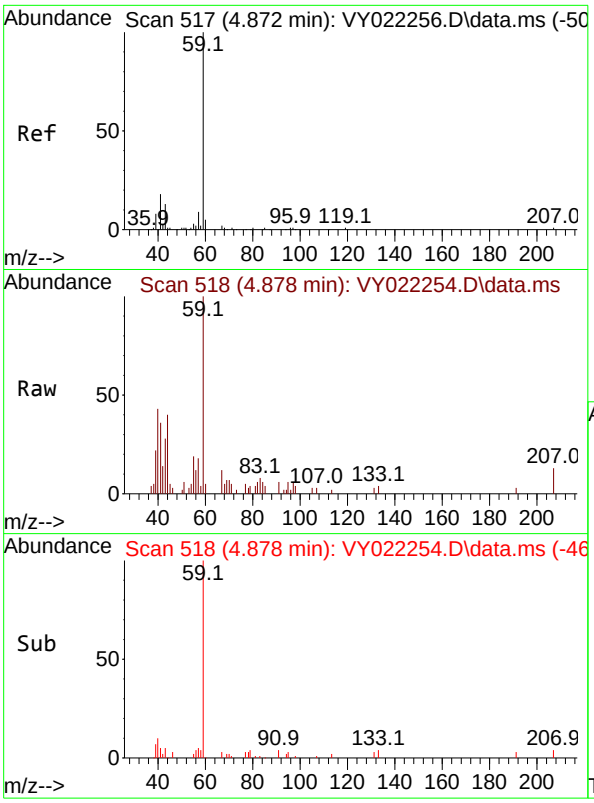


#10
Methyl Iodide
Concen: 9.402 ug/l
RT: 4.007 min Scan# 375
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion:142 Resp: 31088

Ion	Ratio	Lower	Upper
142	100		
127	46.2	35.7	53.5
141	15.1	11.1	16.7



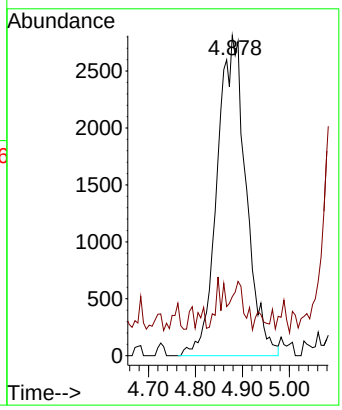


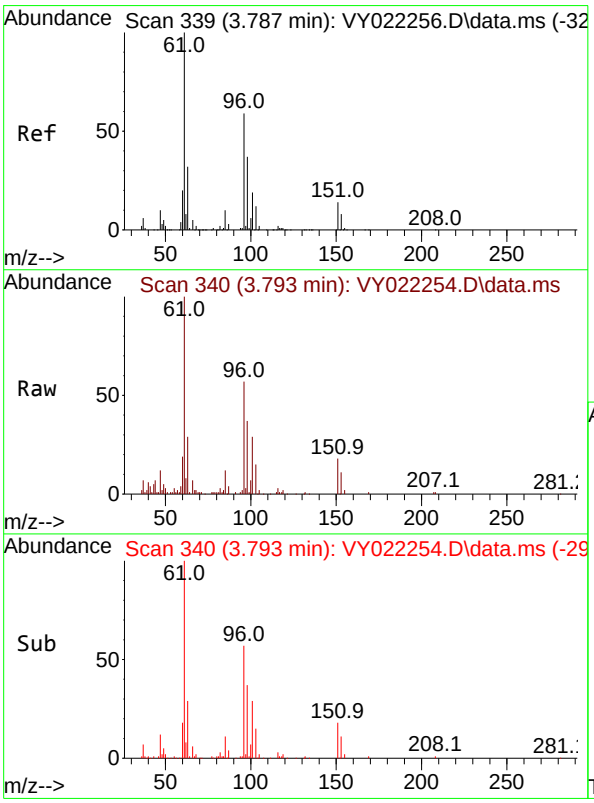
#11
Tert butyl alcohol
Concen: 54.446 ug/l
RT: 4.878 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 59 Resp: 12043

Ion	Ratio	Lower	Upper
59	100		
57	5.7	0.0	0.0#

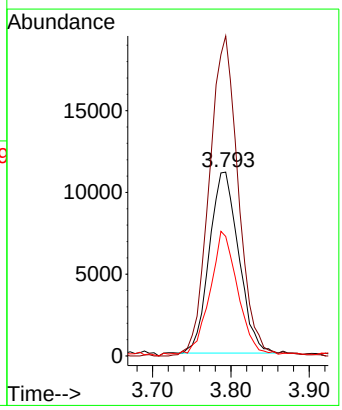


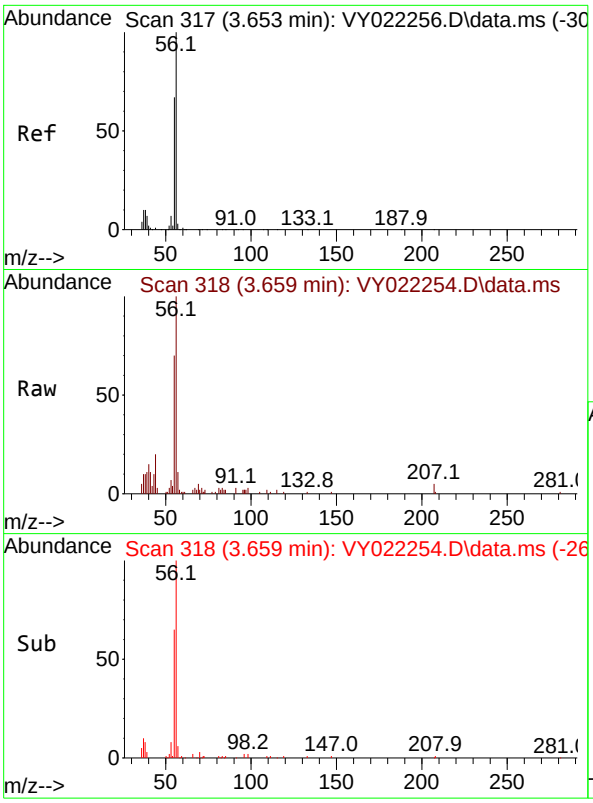


#12
1,1-Dichloroethene
Concen: 10.170 ug/l
RT: 3.793 min Scan# 340
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 96 Resp: 28831

Ion	Ratio	Lower	Upper
96	100		
61	176.2	134.9	202.3
98	65.1	49.9	74.9



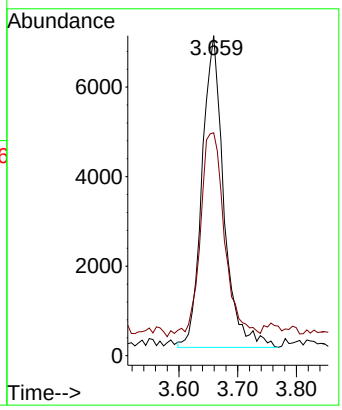


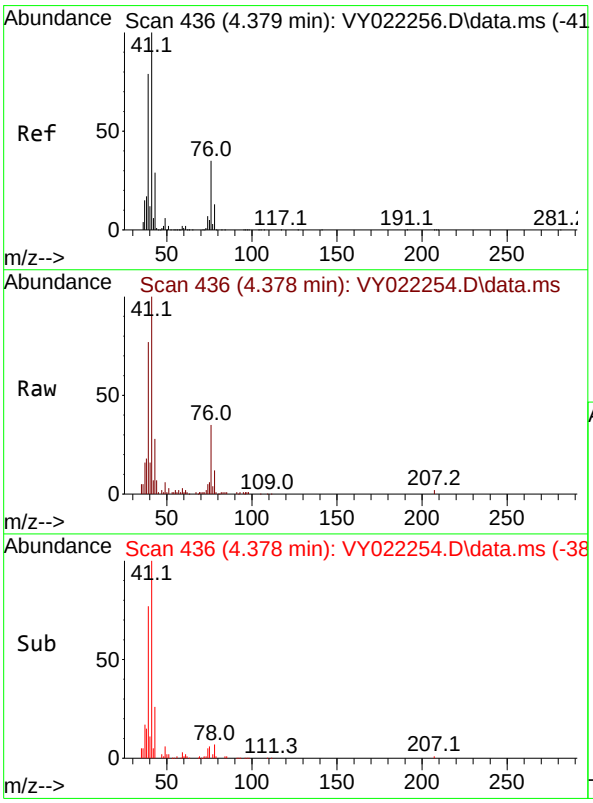
#13
Acrolein
Concen: 55.439 ug/l
RT: 3.659 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 56 Resp: 17927

Ion	Ratio	Lower	Upper
56	100		
55	73.0	55.6	83.4

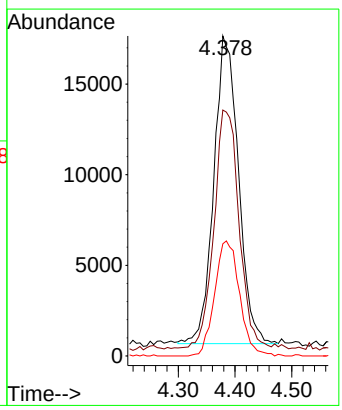


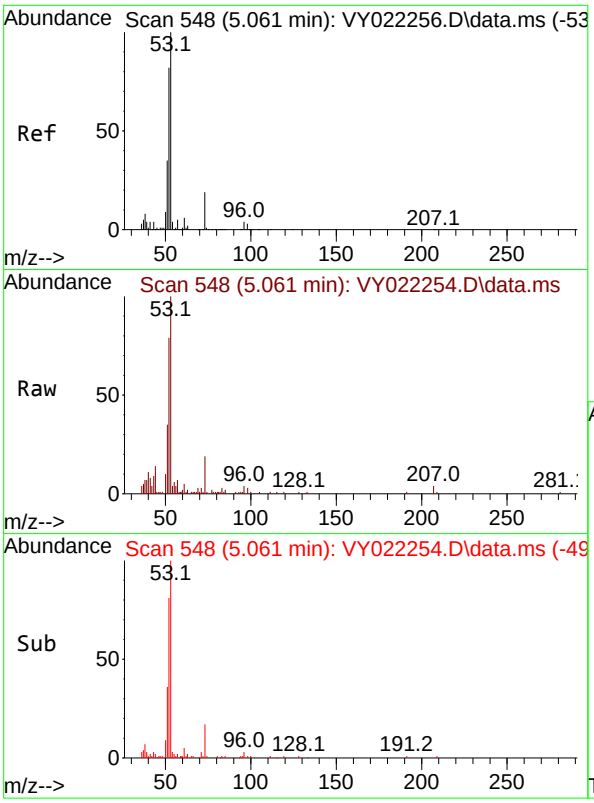


#14
Allyl chloride
Concen: 10.315 ug/l
RT: 4.378 min Scan# 436
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 41 Resp: 51275

Ion	Ratio	Lower	Upper
41	100		
39	79.2	63.4	95.0
76	37.8	29.5	44.3



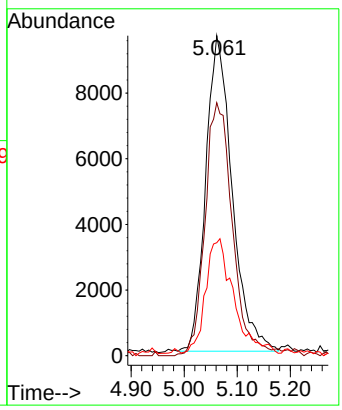


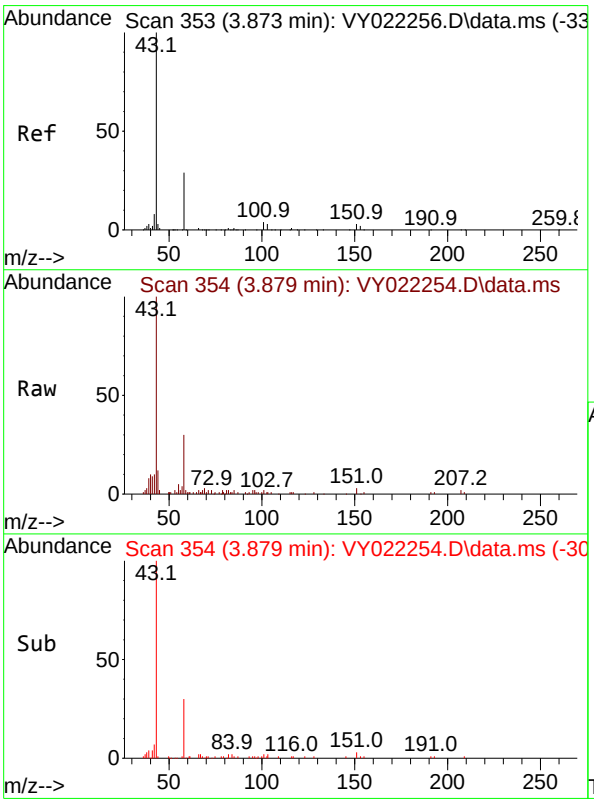
#15
Acrylonitrile
Concen: 51.139 ug/l
RT: 5.061 min Scan# 54
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 53 Resp: 33277

Ion	Ratio	Lower	Upper
53	100		
52	82.7	66.1	99.1
51	38.2	30.0	45.0

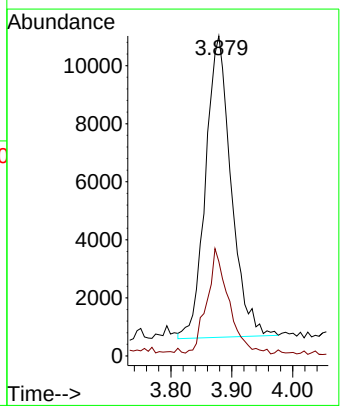


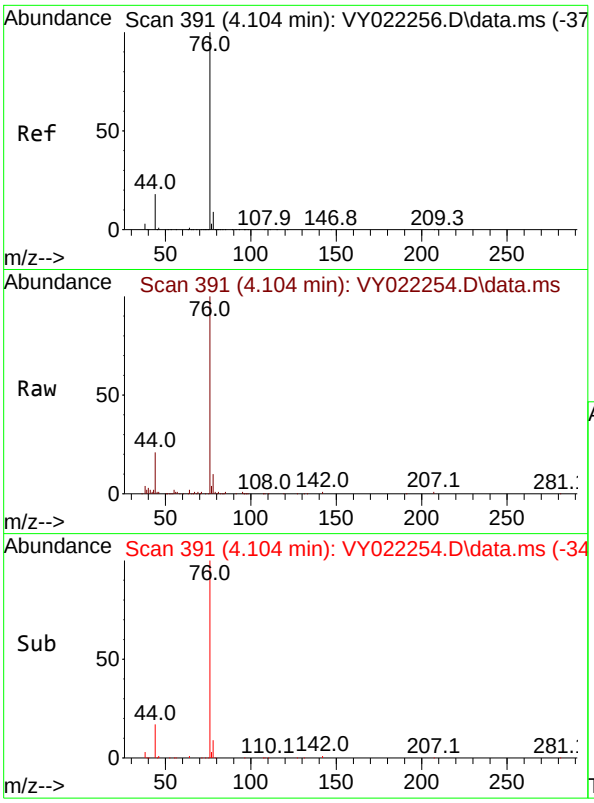


#16
Acetone
Concen: 55.657 ug/l
RT: 3.879 min Scan# 354
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 43 Resp: 30229

Ion	Ratio	Lower	Upper
43	100		
58	29.5	23.6	35.4



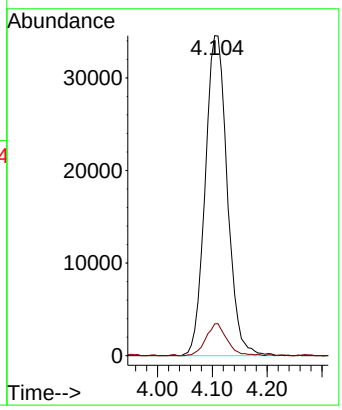


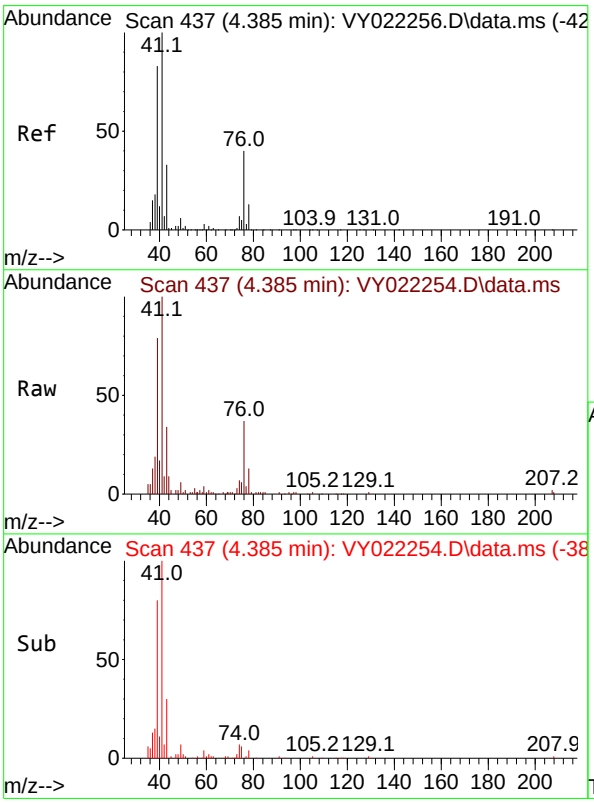
#17
Carbon Disulfide
Concen: 10.448 ug/l
RT: 4.104 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 76 Resp: 96591

Ion	Ratio	Lower	Upper
76	100		
78	9.9	7.2	10.8

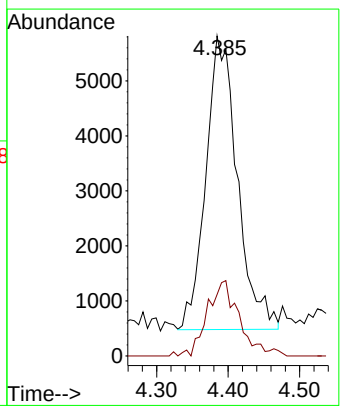


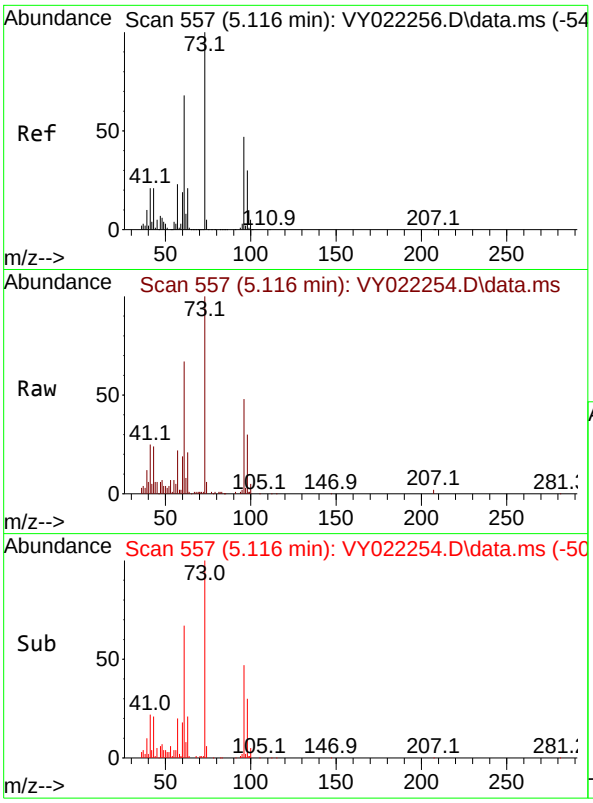


#18
Methyl Acetate
Concen: 9.886 ug/l
RT: 4.385 min Scan# 437
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 43 Resp: 16338

Ion	Ratio	Lower	Upper
43	100		
74	25.6	18.2	27.4



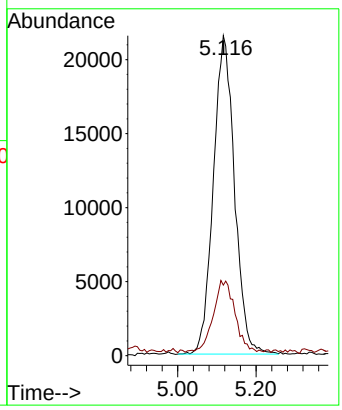


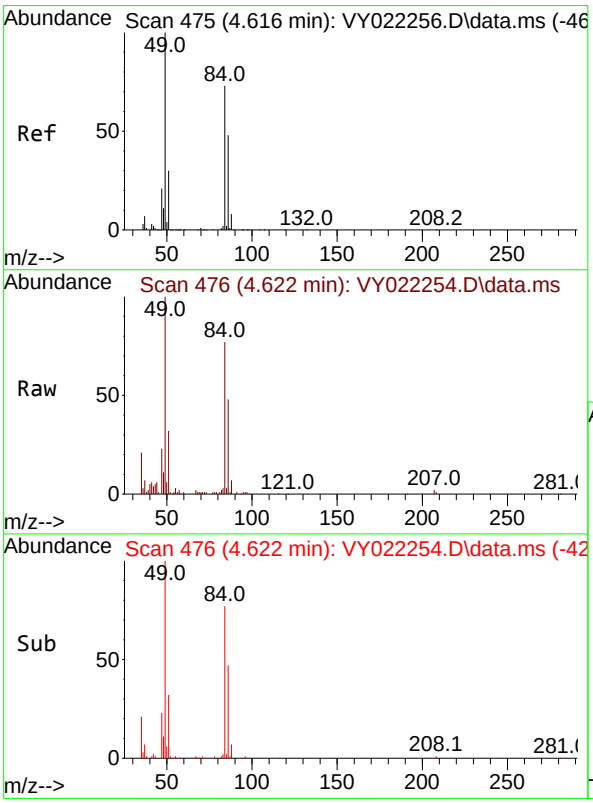
#19
Methyl tert-butyl Ether
Concen: 10.326 ug/l
RT: 5.116 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 73 Resp: 80714

Ion	Ratio	Lower	Upper
73	100		
57	21.3	18.6	28.0

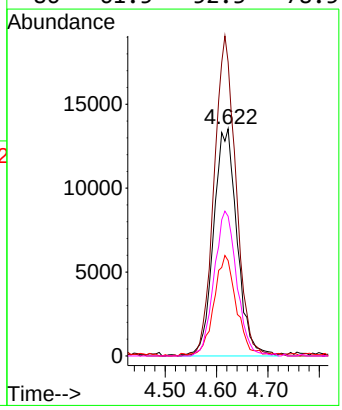


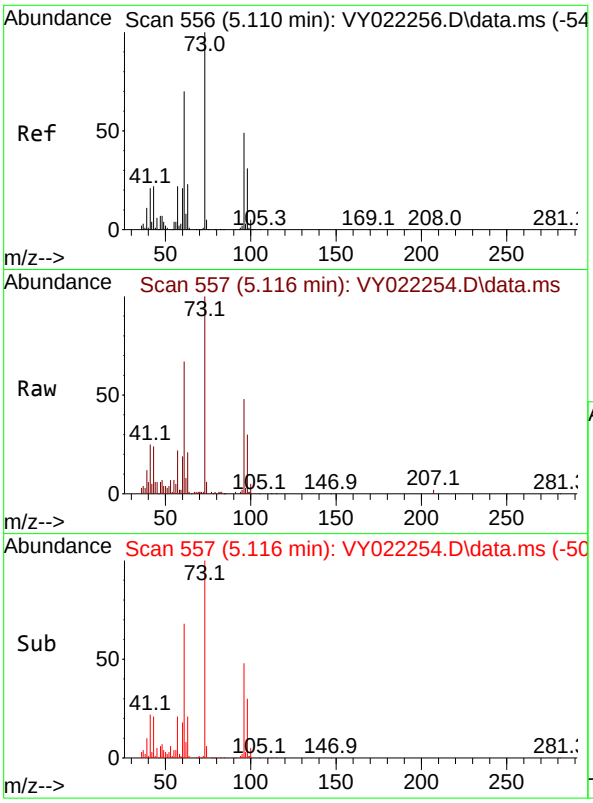


#20
Methylene Chloride
Concen: 12.250 ug/l
RT: 4.622 min Scan# 476
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 84 Resp: 42991

Ion	Ratio	Lower	Upper
84	100		
49	129.4	109.6	164.4
51	42.0	32.4	48.6
86	61.5	52.3	78.5



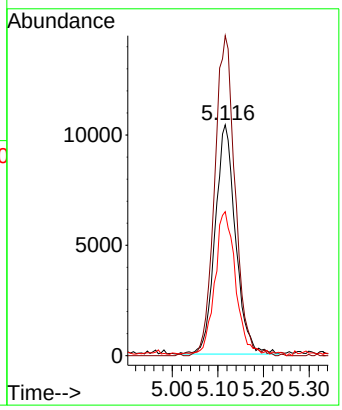


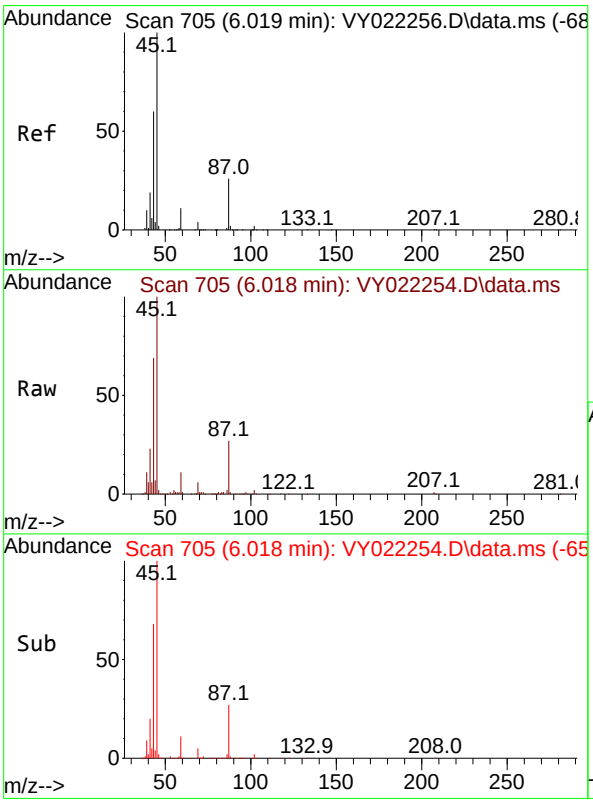
#21
trans-1,2-Dichloroethene
Concen: 10.309 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 96 Resp: 32258

Ion	Ratio	Lower	Upper
96	100		
61	139.6	113.4	170.0
98	62.0	50.9	76.3

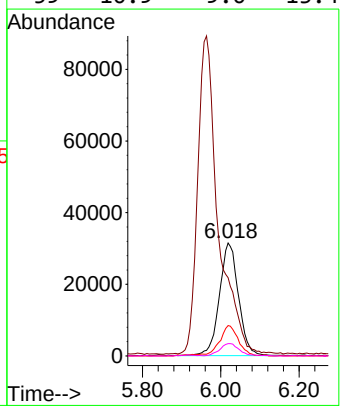


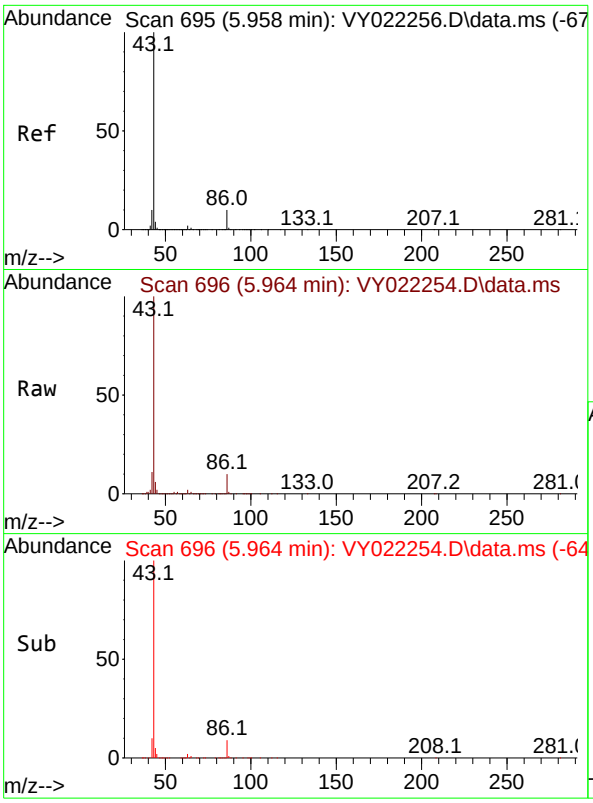


#22
Diisopropyl ether
Concen: 10.145 ug/l
RT: 6.018 min Scan# 705
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 45 Resp: 106493

Ion	Ratio	Lower	Upper
45	100		
43	67.7	48.2	72.2
87	26.8	21.4	32.0
59	10.9	9.0	13.4



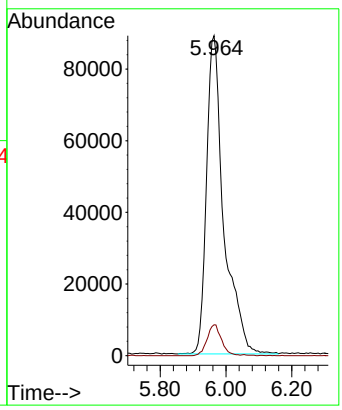


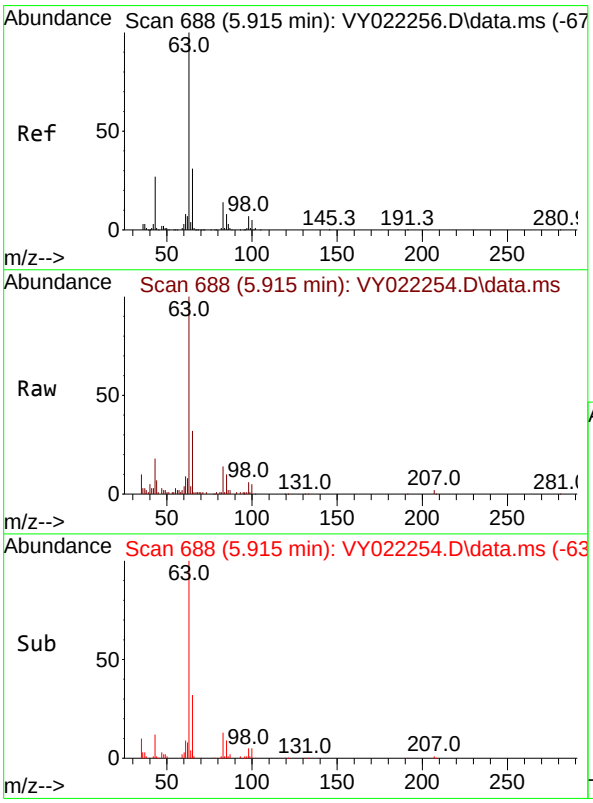
#23
Vinyl Acetate
Concen: 51.192 ug/l
RT: 5.964 min Scan# 6
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 43 Resp: 324651

Ion	Ratio	Lower	Upper
43	100		
86	9.7	7.8	11.8

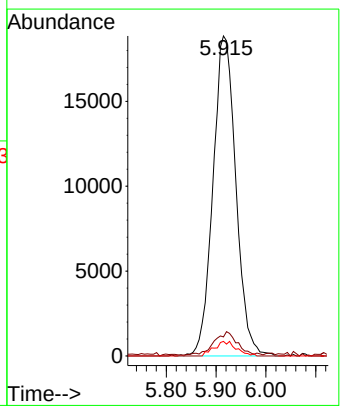


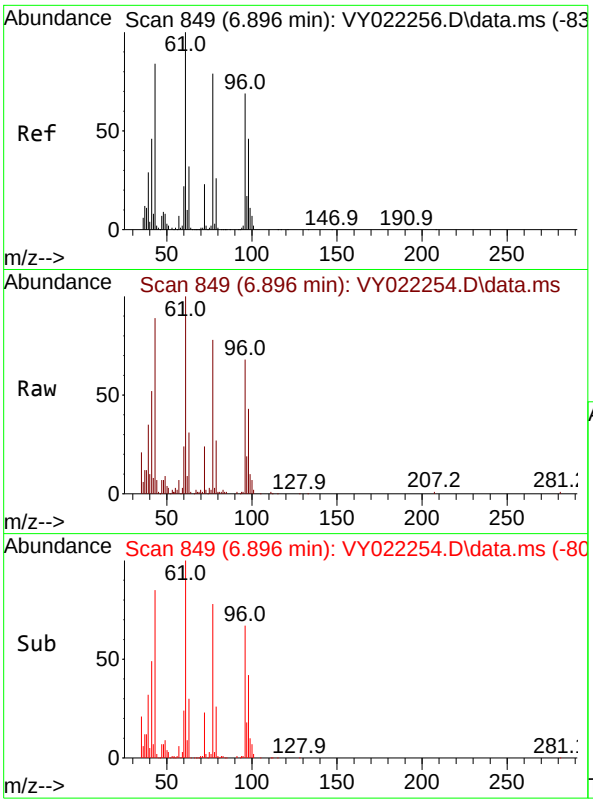


#24
1,1-Dichloroethane
Concen: 10.265 ug/l
RT: 5.915 min Scan# 688
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 63 Resp: 60198

Ion	Ratio	Lower	Upper
63	100		
98	5.6	3.5	10.5
100	4.6	2.4	7.2



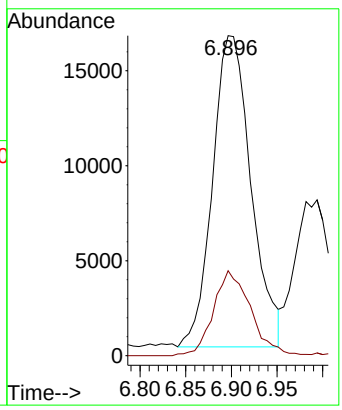


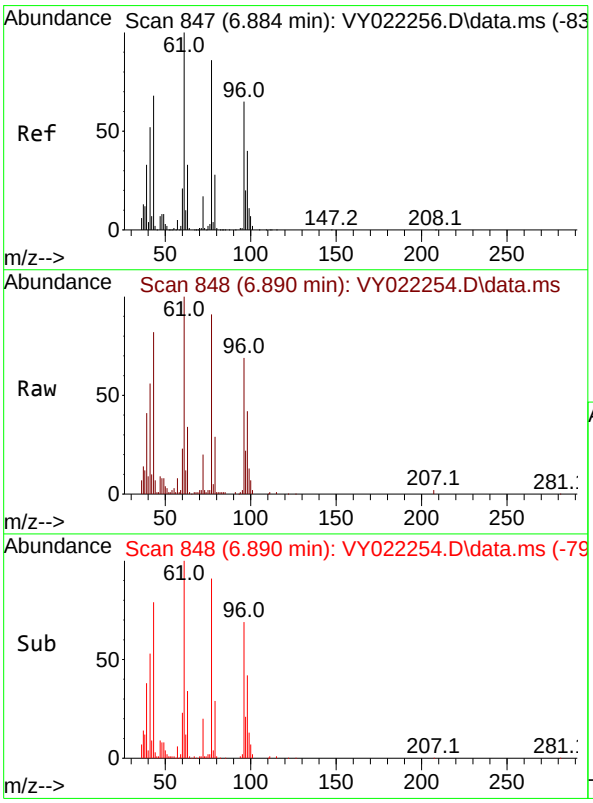
#25
2-Butanone
Concen: 52.859 ug/l
RT: 6.896 min Scan# 84
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 43 Resp: 48022

Ion	Ratio	Lower	Upper
43	100		
72	26.7	22.1	33.1

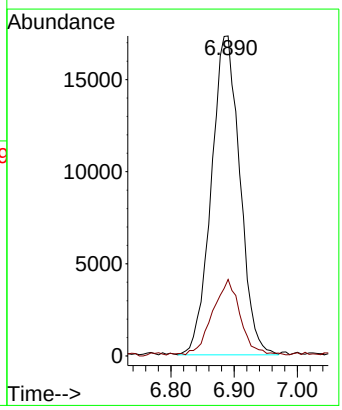


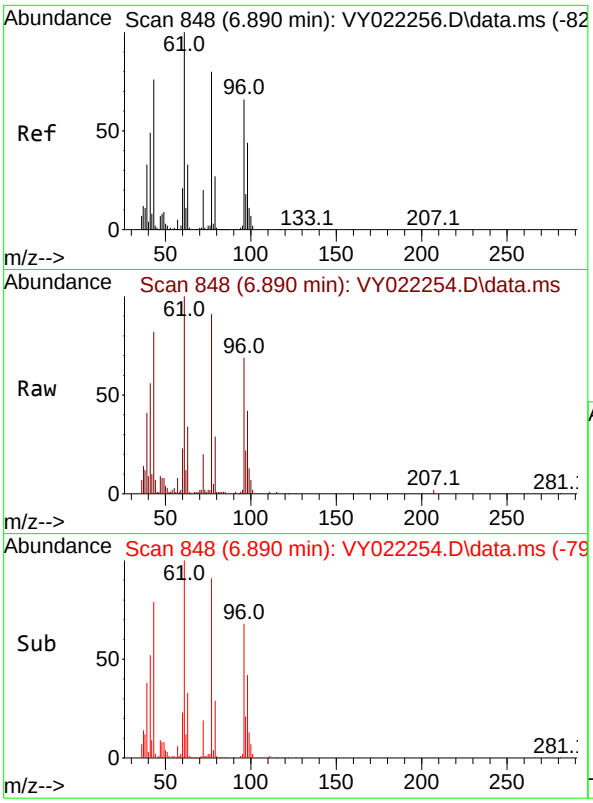


#26
2,2-Dichloropropane
Concen: 10.403 ug/l
RT: 6.890 min Scan# 848
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 77 Resp: 54264

Ion	Ratio	Lower	Upper
77	100		
97	22.9	11.2	33.5



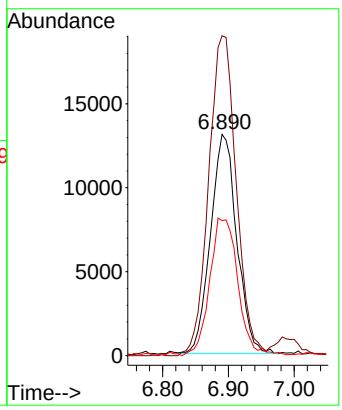


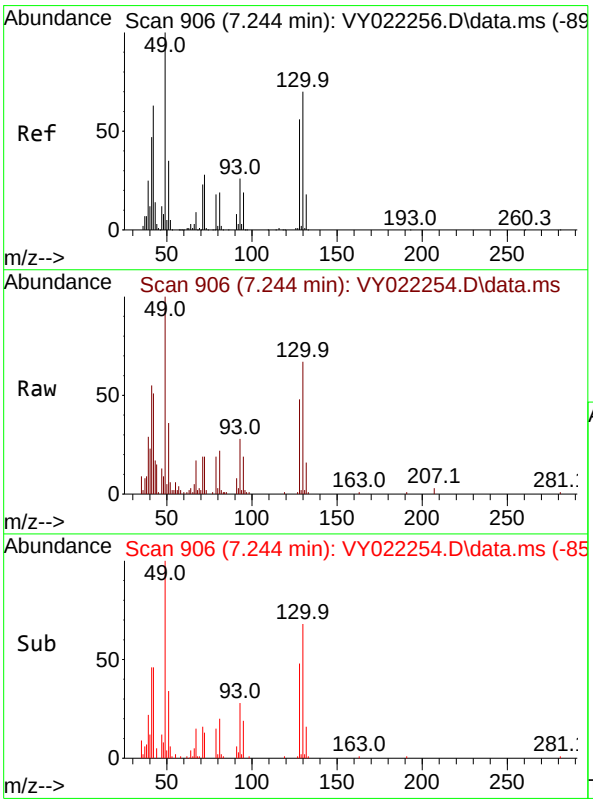
#27
cis-1,2-Dichloroethene
Concen: 10.081 ug/l
RT: 6.890 min Scan# 84
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 96 Resp: 36403

Ion	Ratio	Lower	Upper
96	100		
61	152.8	0.0	302.6
98	67.2	0.0	128.8

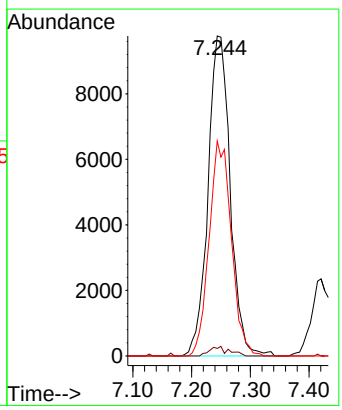


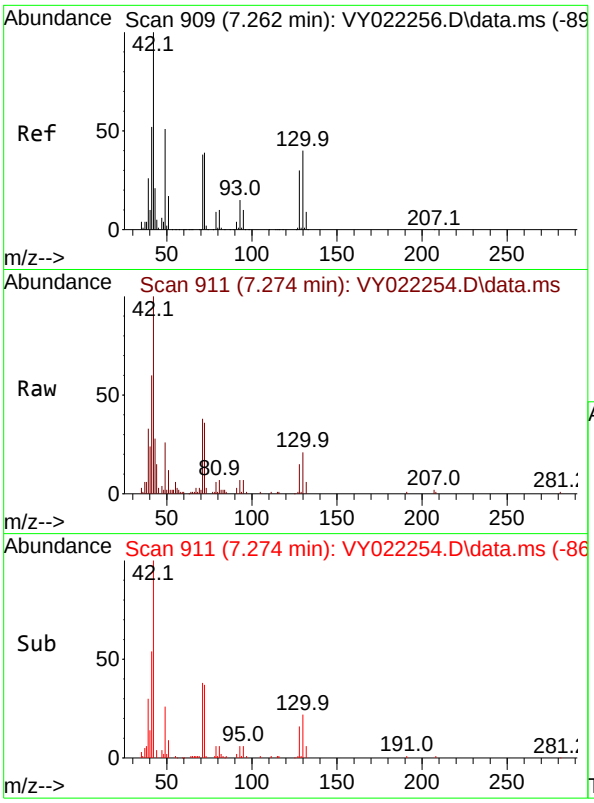


#28
Bromochloromethane
Concen: 10.259 ug/l
RT: 7.244 min Scan# 906
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 49 Resp: 25664

Ion	Ratio	Lower	Upper
49	100		
129	2.6	0.0	3.6
130	67.2	54.7	82.1



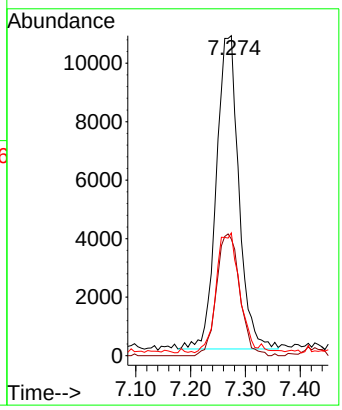


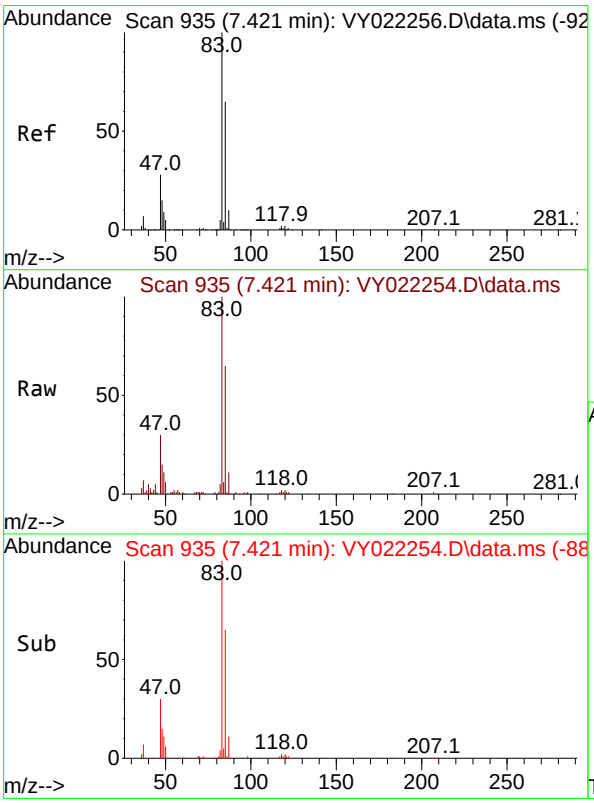
#29
Tetrahydrofuran
Concen: 52.498 ug/l
RT: 7.274 min Scan# 91
Delta R.T. 0.012 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 42 Resp: 30684

Ion	Ratio	Lower	Upper
42	100		
72	39.9	33.8	50.6
71	39.0	31.5	47.3

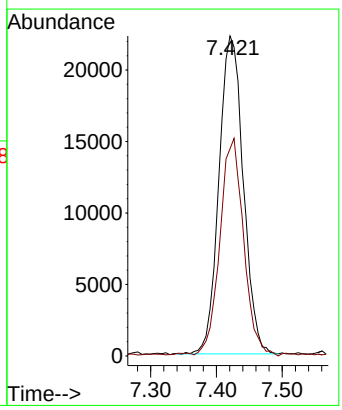


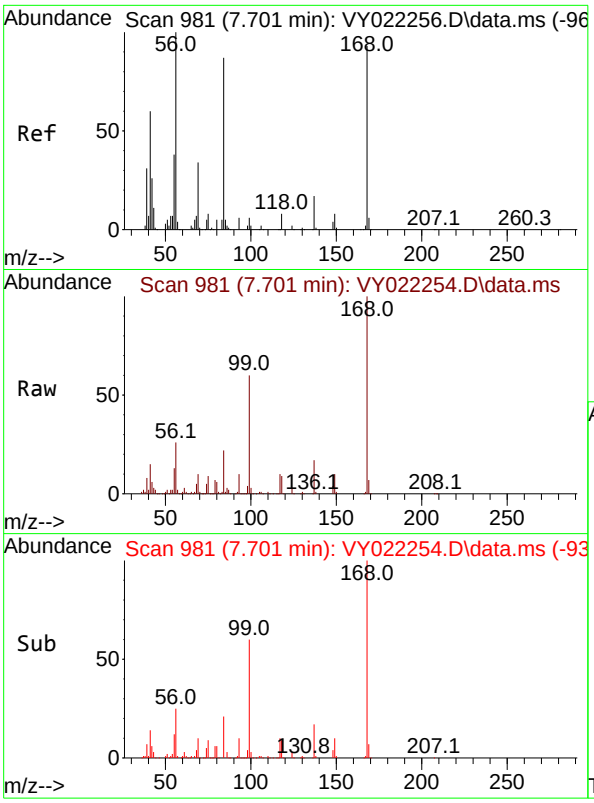


#30
Chloroform
Concen: 10.163 ug/l
RT: 7.421 min Scan# 935
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 83 Resp: 57172

Ion	Ratio	Lower	Upper
83	100		
85	65.2	51.8	77.8



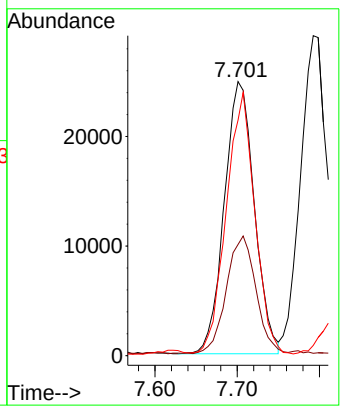


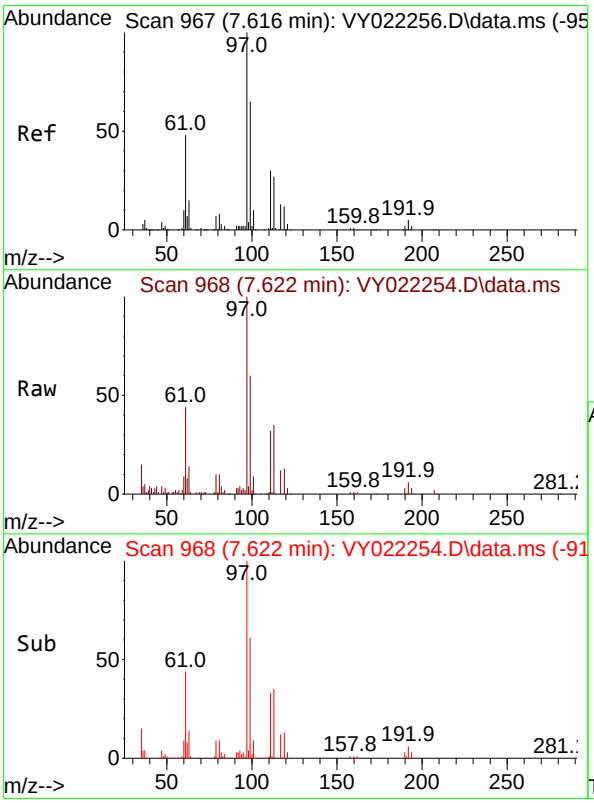
#31
Cyclohexane
Concen: 10.778 ug/l
RT: 7.701 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 56 Resp: 63155

Ion	Ratio	Lower	Upper
56	100		
69	39.9	27.4	41.2
84	84.7	70.0	105.0

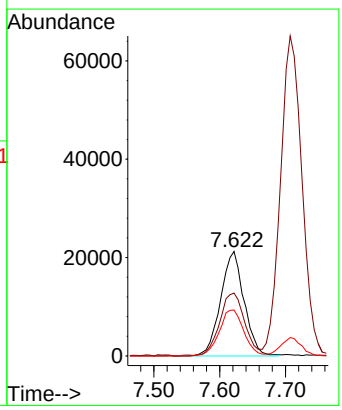


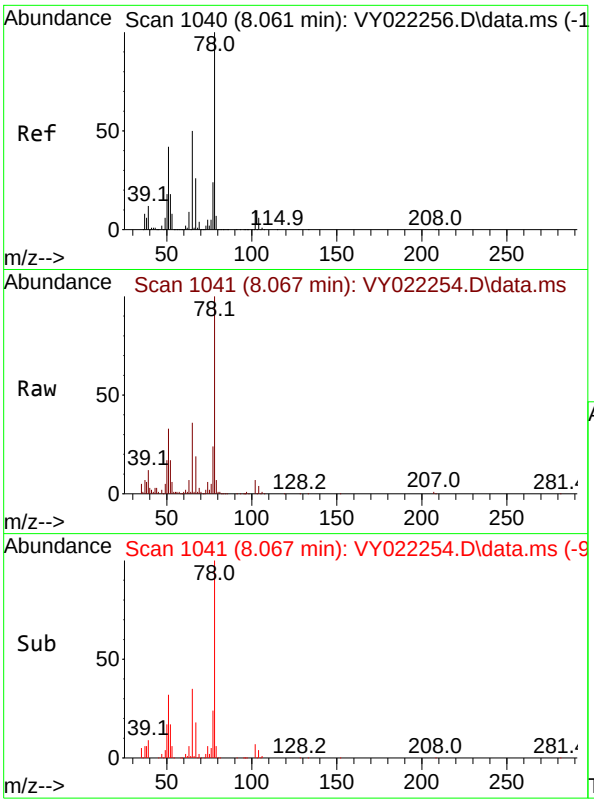


#32
1,1,1-Trichloroethane
Concen: 10.242 ug/l
RT: 7.622 min Scan# 968
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 97 Resp: 52856

Ion	Ratio	Lower	Upper
97	100		
99	64.5	51.4	77.0
61	46.0	38.1	57.1



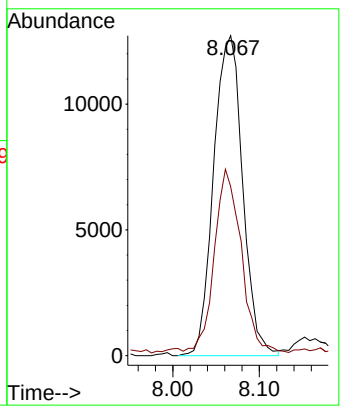


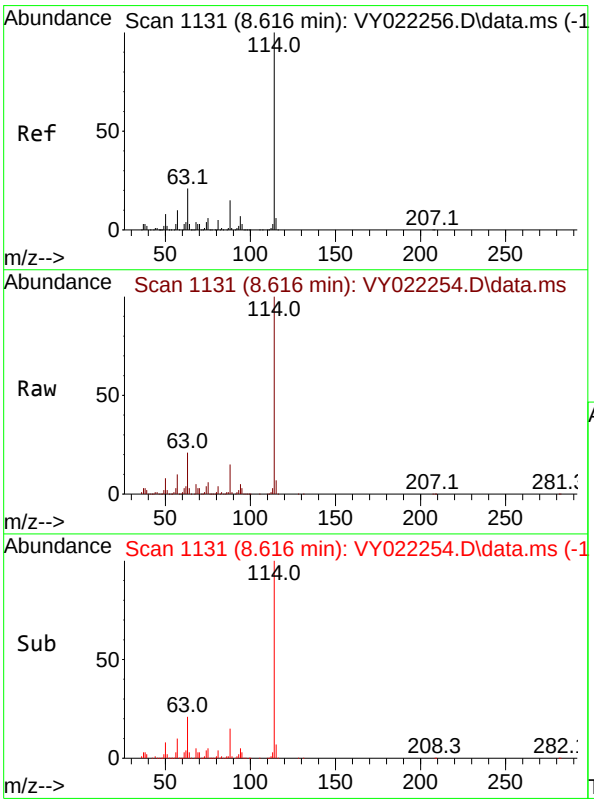
#33
1,2-Dichloroethane-d4
Concen: 10.222 ug/l
RT: 8.067 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 65 Resp: 29608

Ion	Ratio	Lower	Upper
65	100		
67	52.9	0.0	104.6

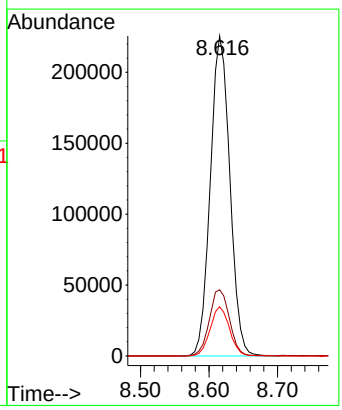


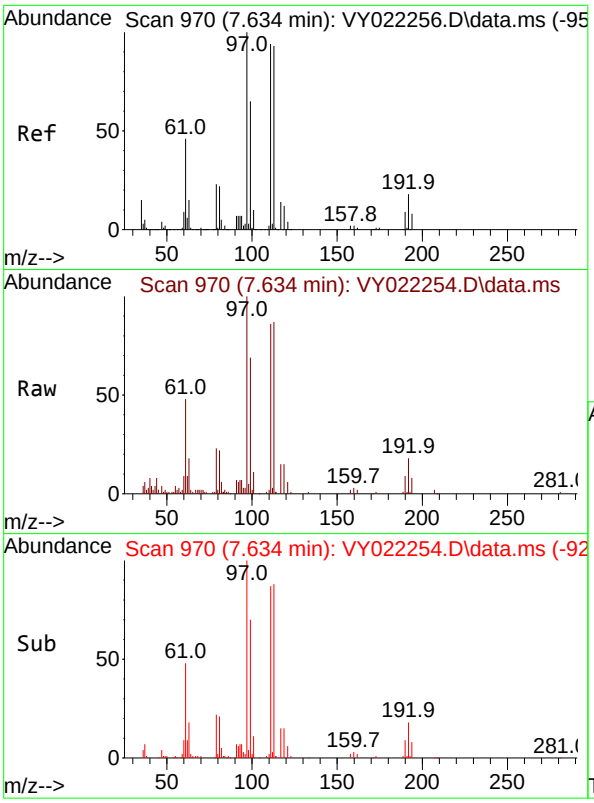


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion:114 Resp: 446109

Ion	Ratio	Lower	Upper
114	100		
63	20.7	0.0	41.0
88	15.4	0.0	29.4



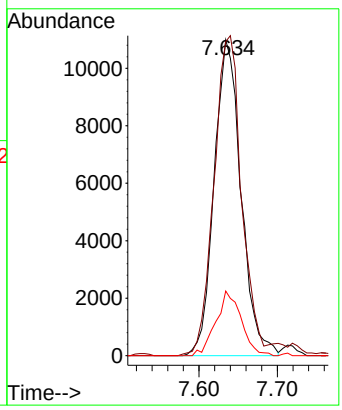


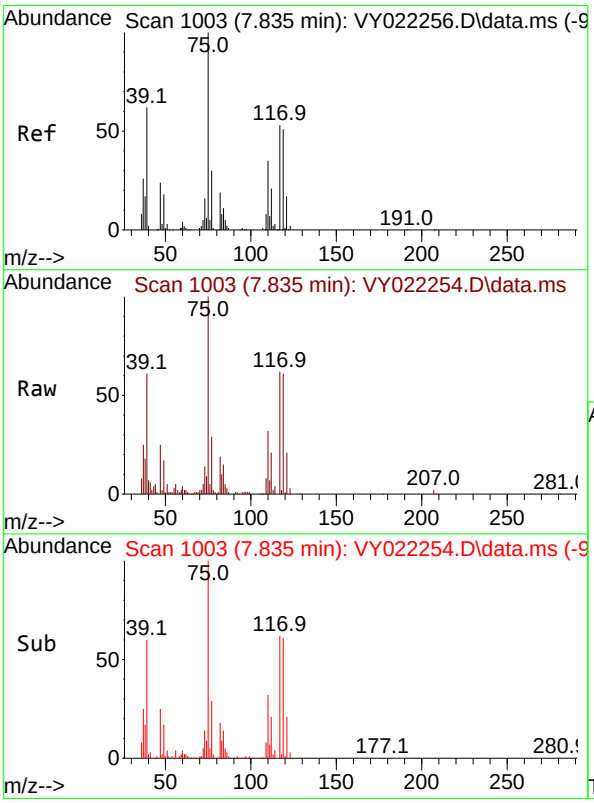
#35
Dibromofluoromethane
Concen: 9.856 ug/l
RT: 7.634 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion:113 Resp: 26242

Ion	Ratio	Lower	Upper
113	100		
111	103.6	82.6	123.8
192	19.3	15.2	22.8

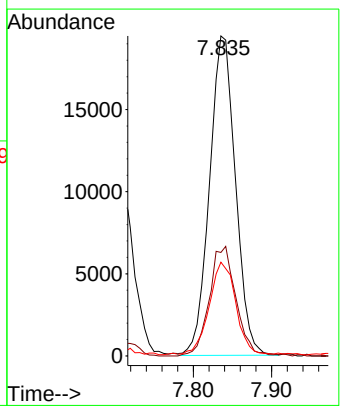


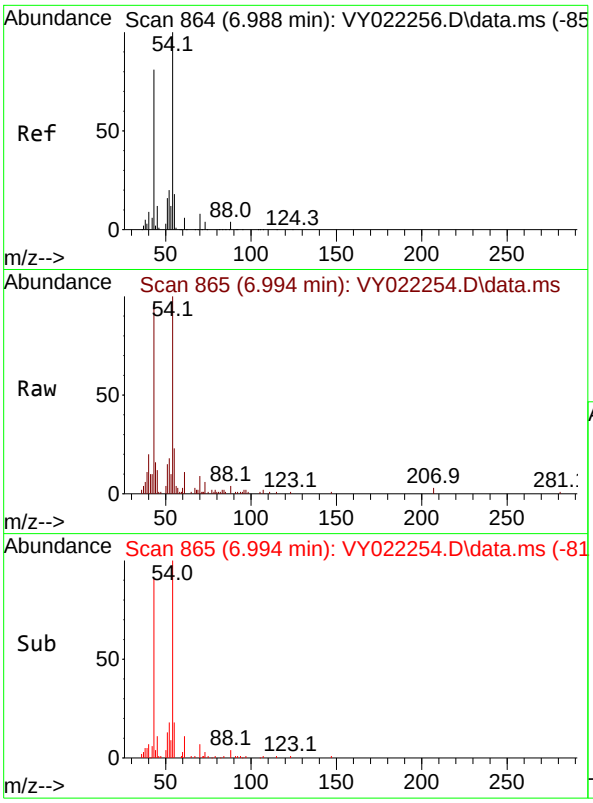


#36
1,1-Dichloropropene
Concen: 10.219 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 75 Resp: 44817

Ion	Ratio	Lower	Upper
75	100		
110	35.1	16.6	49.8
77	29.8	24.6	37.0



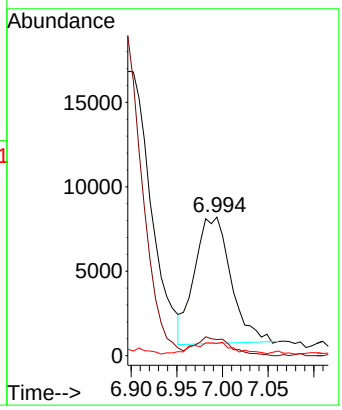


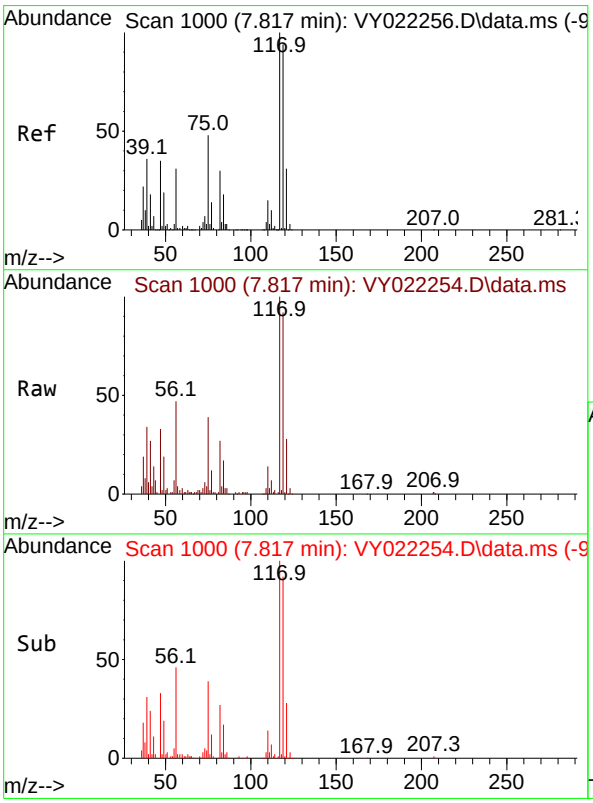
#37
Ethyl Acetate
Concen: 9.774 ug/l
RT: 6.994 min Scan# 8
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 43 Resp: 20624

Ion	Ratio	Lower	Upper
43	100		
61	14.2	10.2	15.2
70	10.6	7.6	11.4

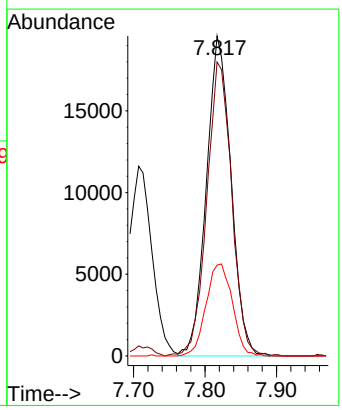


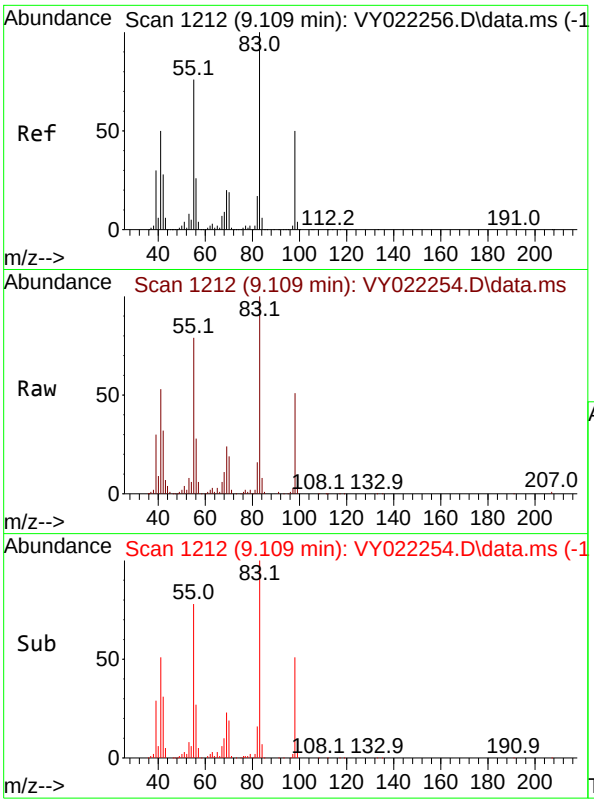


#38
Carbon Tetrachloride
Concen: 10.303 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion:117 Resp: 46772

Ion	Ratio	Lower	Upper
117	100		
119	91.4	75.3	112.9
121	28.4	24.7	37.1



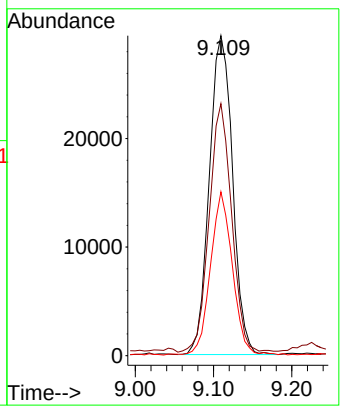


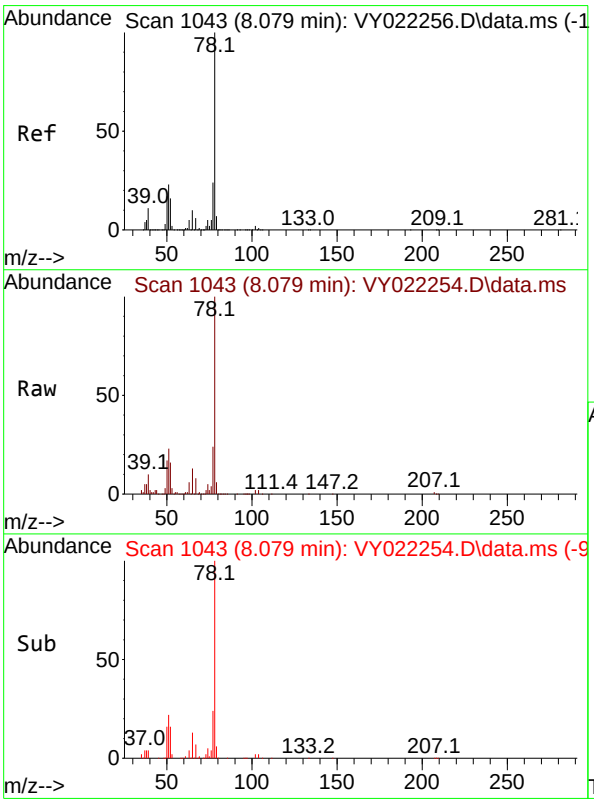
#39
Methylcyclohexane
Concen: 10.266 ug/l
RT: 9.109 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 83 Resp: 60489

Ion	Ratio	Lower	Upper
83	100		
55	77.9	60.6	90.8
98	51.1	40.0	60.0

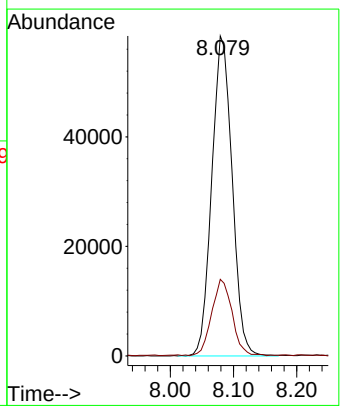


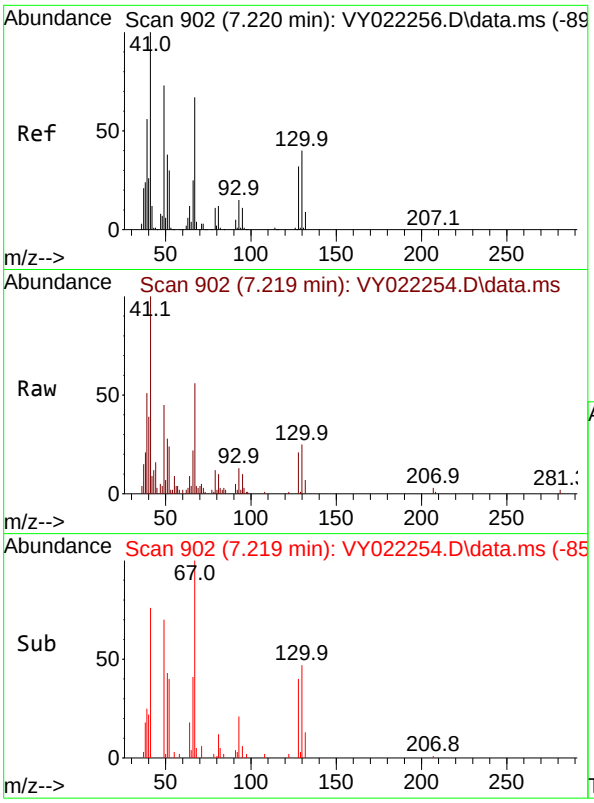


#40
Benzene
Concen: 10.032 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 78 Resp: 130423

Ion	Ratio	Lower	Upper
78	100		
77	23.7	18.9	28.3



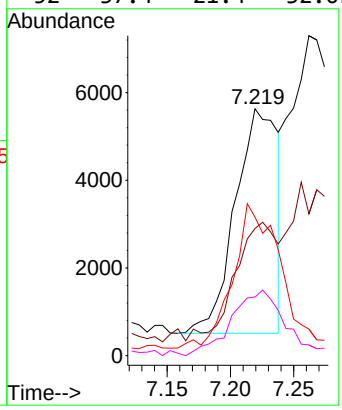


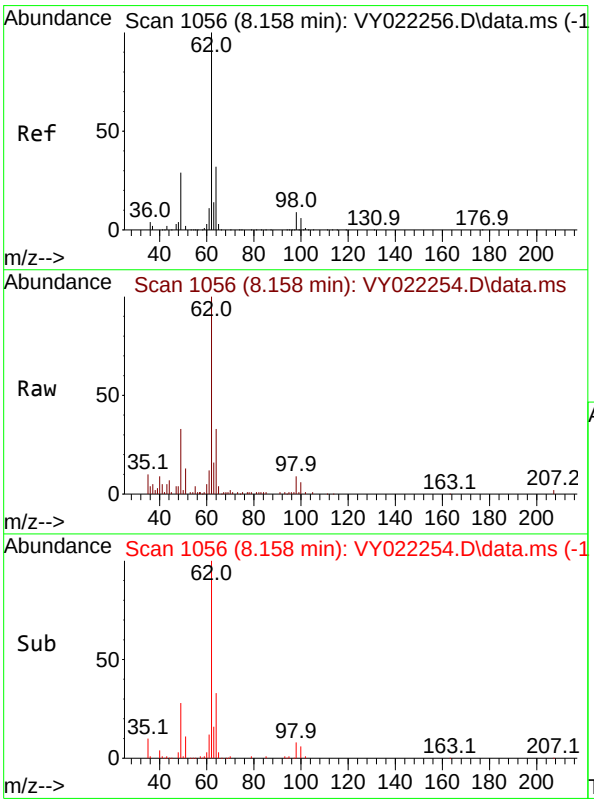
#41
Methacrylonitrile
Concen: 7.704 ug/l
RT: 7.219 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 41 Resp: 11895

Ion	Ratio	Lower	Upper
41	100		
39	52.5	39.1	58.7
67	74.3	47.1	70.7#
52	37.4	21.4	32.0#

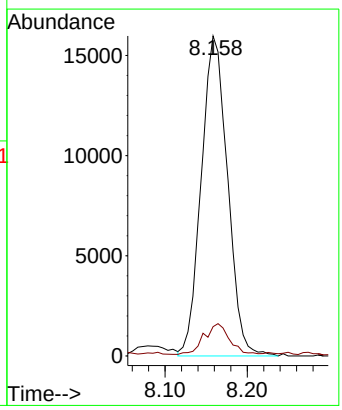


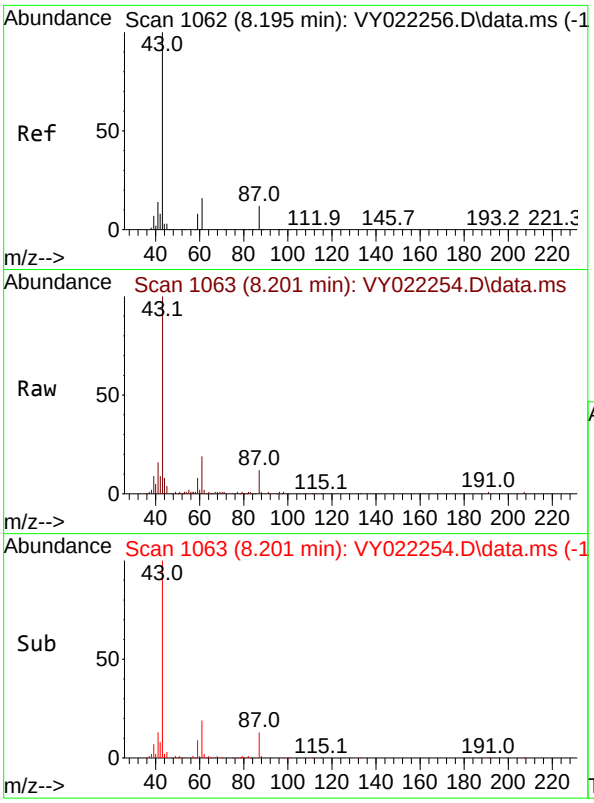


#42
1,2-Dichloroethane
Concen: 10.115 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 62 Resp: 35565

Ion	Ratio	Lower	Upper
62	100		
98	9.2	0.0	18.4



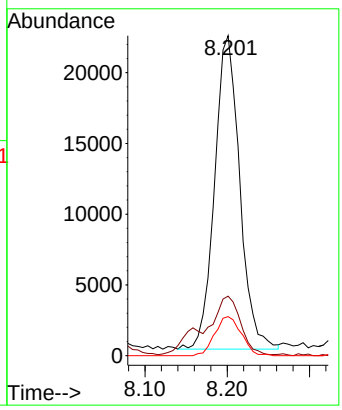


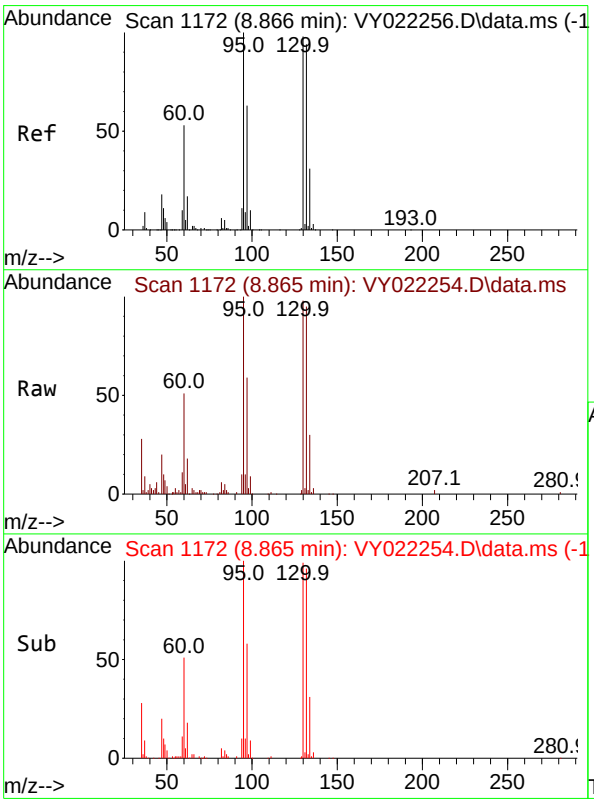
#43
Isopropyl Acetate
Concen: 10.217 ug/l
RT: 8.201 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 43 Resp: 47020

Ion	Ratio	Lower	Upper
43	100		
61	19.6	15.1	22.7
87	13.1	9.7	14.5

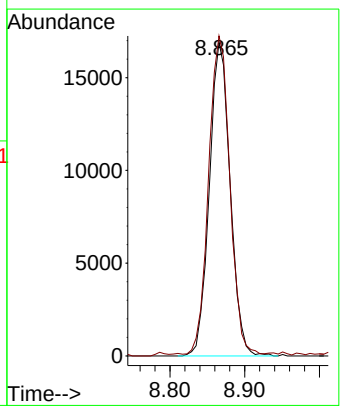


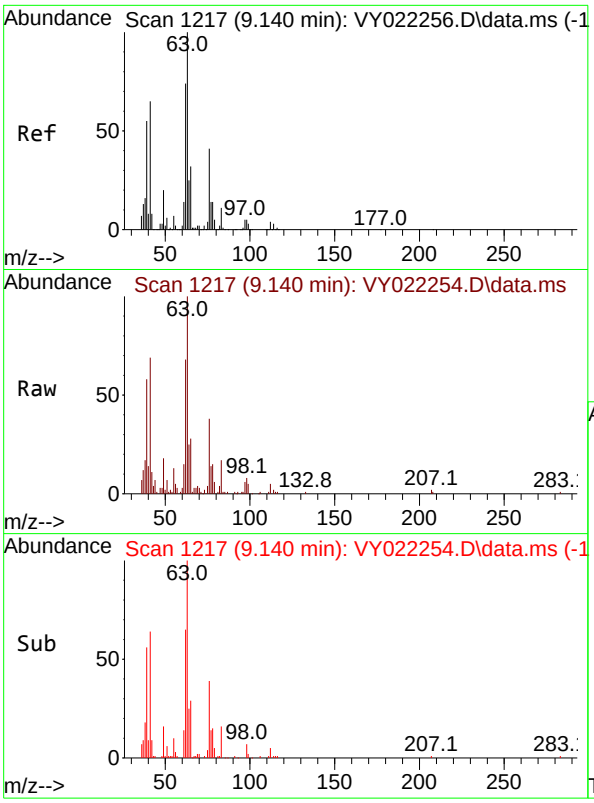


#44
Trichloroethene
Concen: 10.101 ug/l
RT: 8.865 min Scan# 1172
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion:130 Resp: 32655

Ion	Ratio	Lower	Upper
130	100		
95	101.4	0.0	204.8



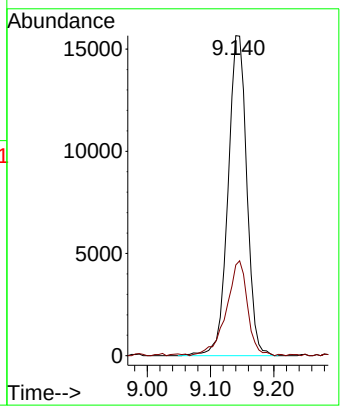


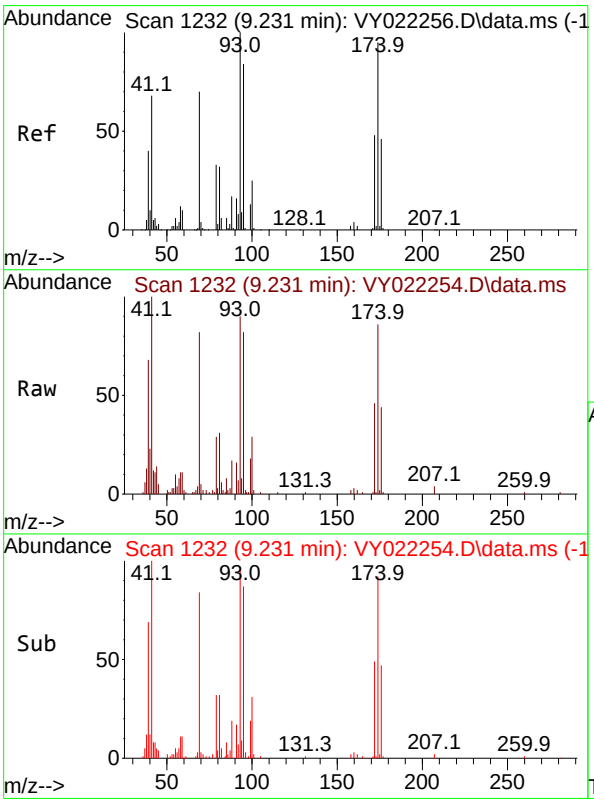
#45
1,2-Dichloropropane
Concen: 10.264 ug/l
RT: 9.140 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 63 Resp: 32172

Ion	Ratio	Lower	Upper
63	100		
65	28.0	25.7	38.5

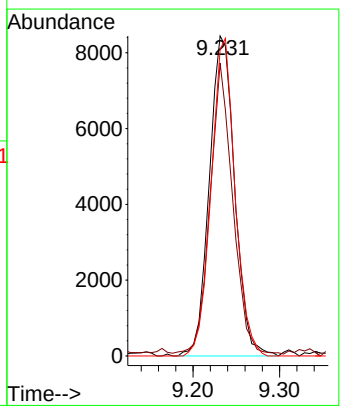


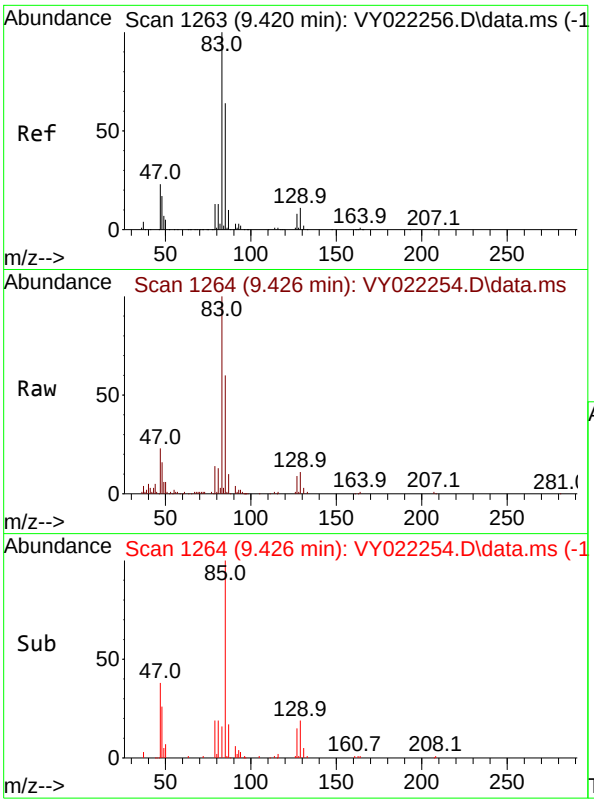


#46
Dibromomethane
Concen: 10.135 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 93 Resp: 17134

Ion	Ratio	Lower	Upper
93	100		
95	82.1	65.2	97.8
174	93.7	74.3	111.5



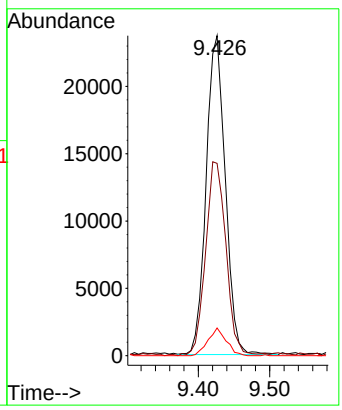


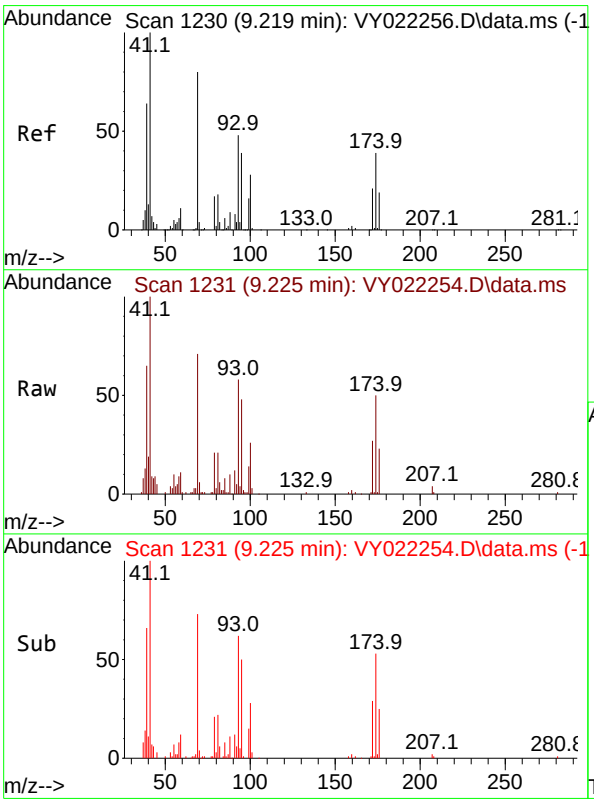
#47
Bromodichloromethane
Concen: 10.042 ug/l
RT: 9.426 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 83 Resp: 44045

Ion	Ratio	Lower	Upper
83	100		
85	60.3	51.1	76.7
127	8.7	6.6	10.0

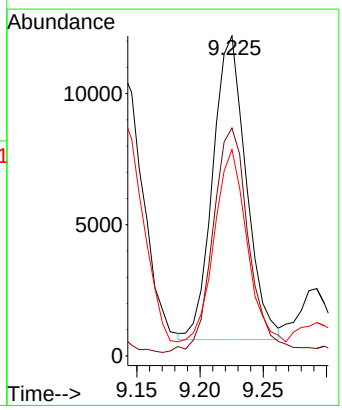


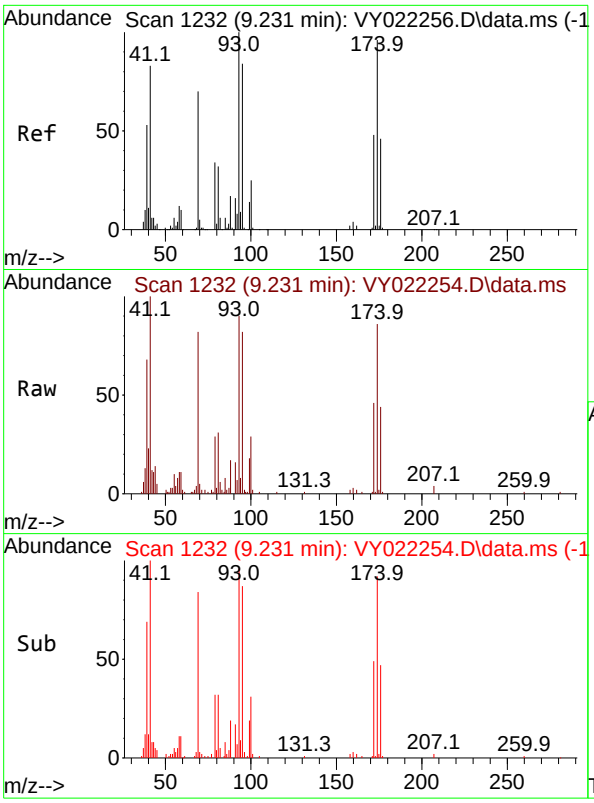


#48
Methyl methacrylate
Concen: 9.851 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 41 Resp: 21202

Ion	Ratio	Lower	Upper
41	100		
69	80.5	63.5	95.3
39	62.0	50.8	76.2



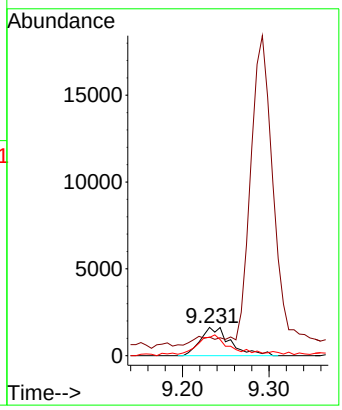


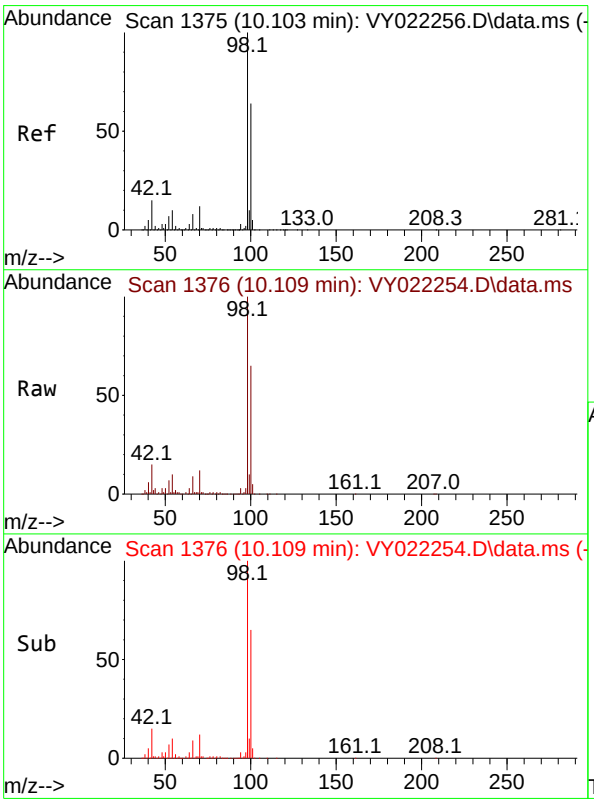
#49
1,4-Dioxane
Concen: 205.769 ug/l
RT: 9.231 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 88 Resp: 3930

Ion	Ratio	Lower	Upper
88	100		
43	0.0	28.5	42.7#
58	84.5	61.4	92.2

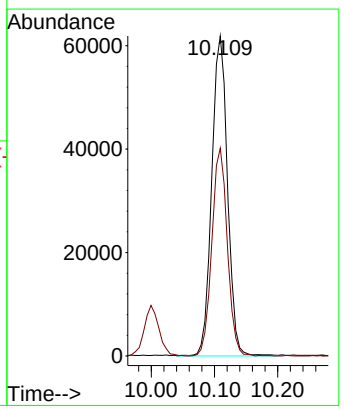


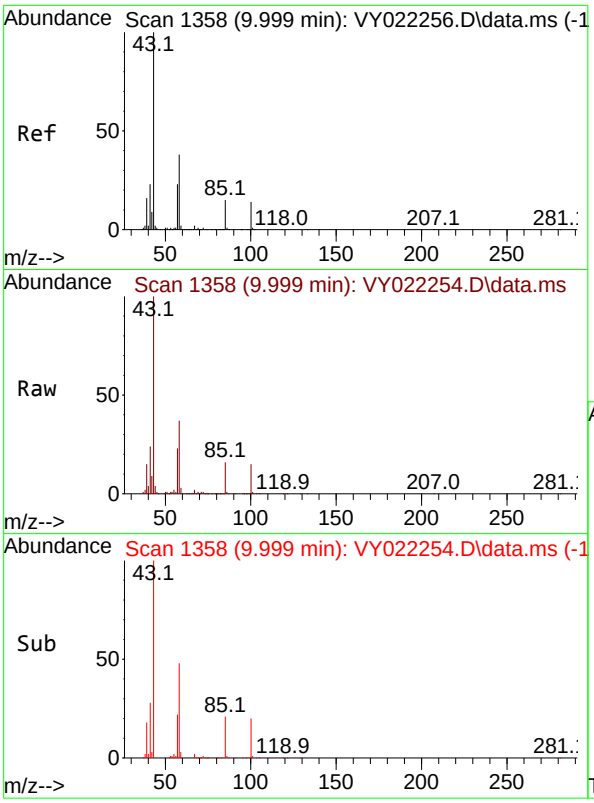


#50
Toluene-d8
Concen: 9.816 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 98 Resp: 107048

Ion	Ratio	Lower	Upper
98	100		
100	63.7	51.8	77.8



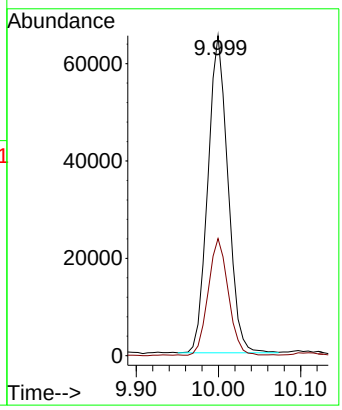


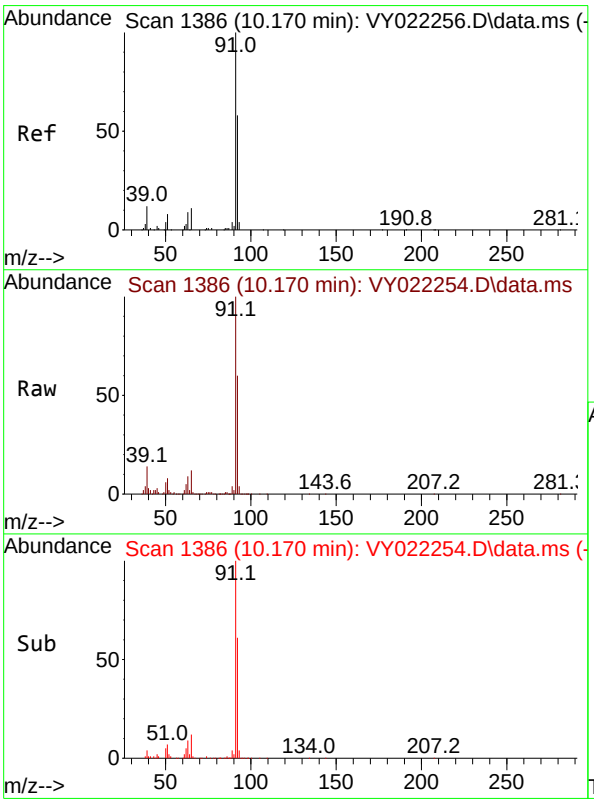
#51
4-Methyl-2-Pentanone
Concen: 48.889 ug/l
RT: 9.999 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 43 Resp: 110396

Ion	Ratio	Lower	Upper
43	100		
58	36.7	29.4	44.2

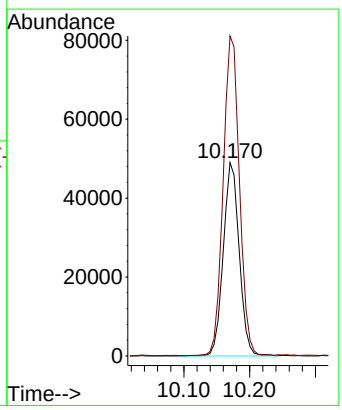


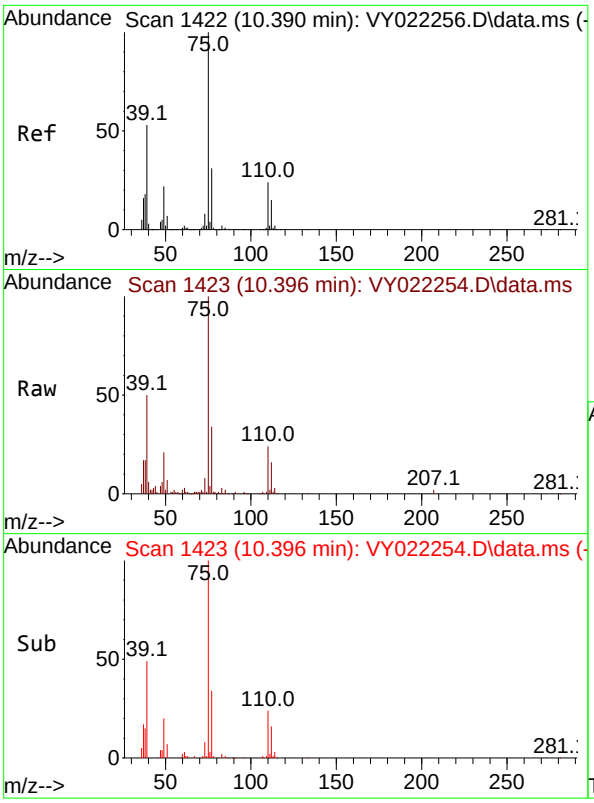


#52
Toluene
Concen: 10.015 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 92 Resp: 82453

Ion	Ratio	Lower	Upper
92	100		
91	168.8	139.1	208.7



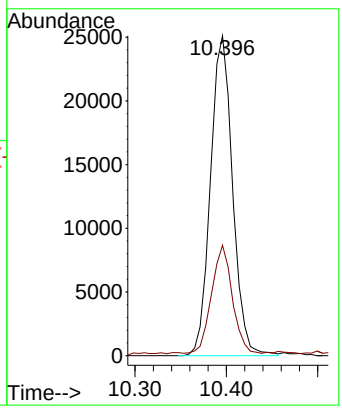


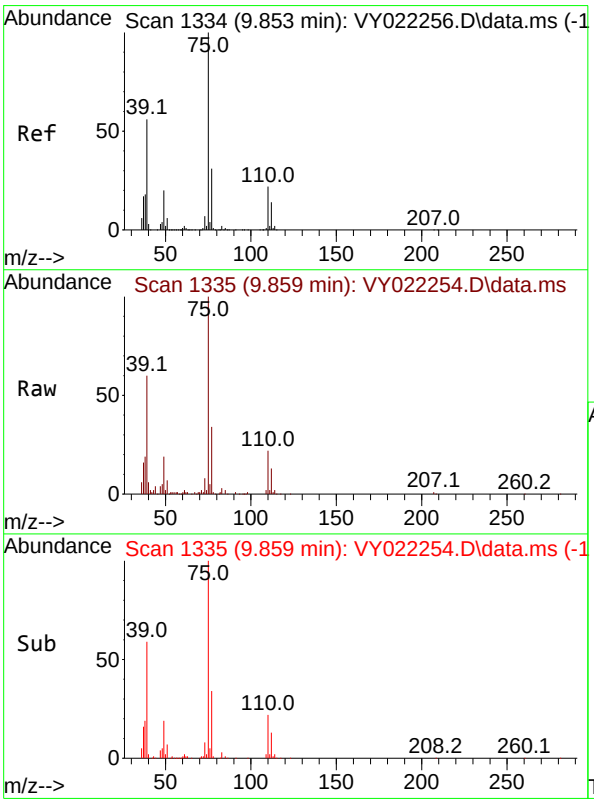
#53
t-1,3-Dichloropropene
Concen: 9.849 ug/l
RT: 10.396 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 75 Resp: 42158

Ion	Ratio	Lower	Upper
75	100		
77	33.5	25.0	37.6

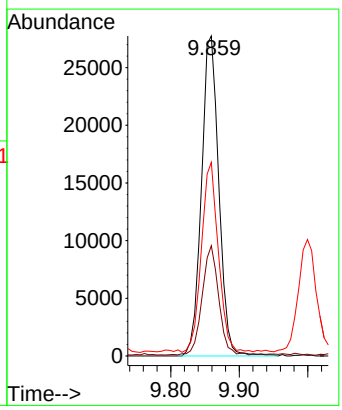


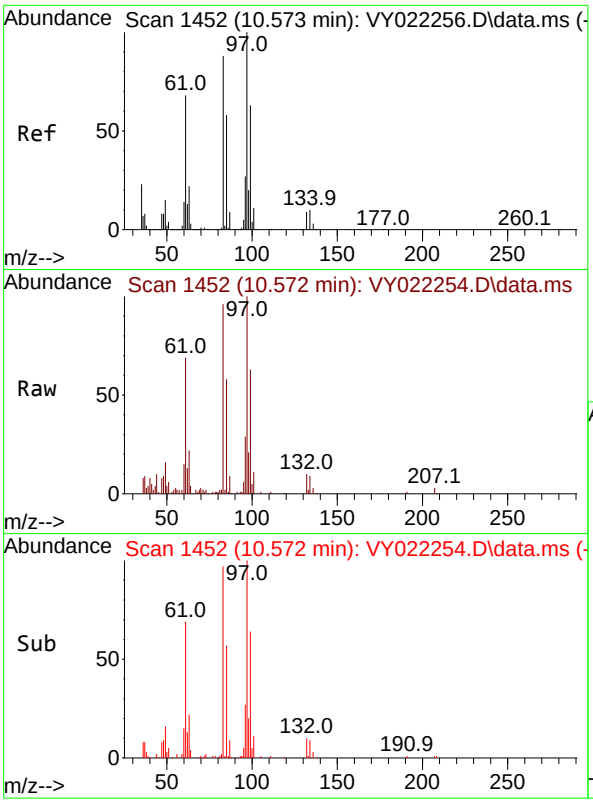


#54
cis-1,3-Dichloropropene
Concen: 9.976 ug/l
RT: 9.859 min Scan# 1335
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 75 Resp: 48923

Ion	Ratio	Lower	Upper
75	100		
77	34.1	25.1	37.7
39	58.7	44.5	66.7



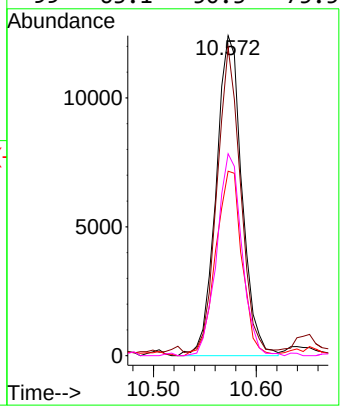


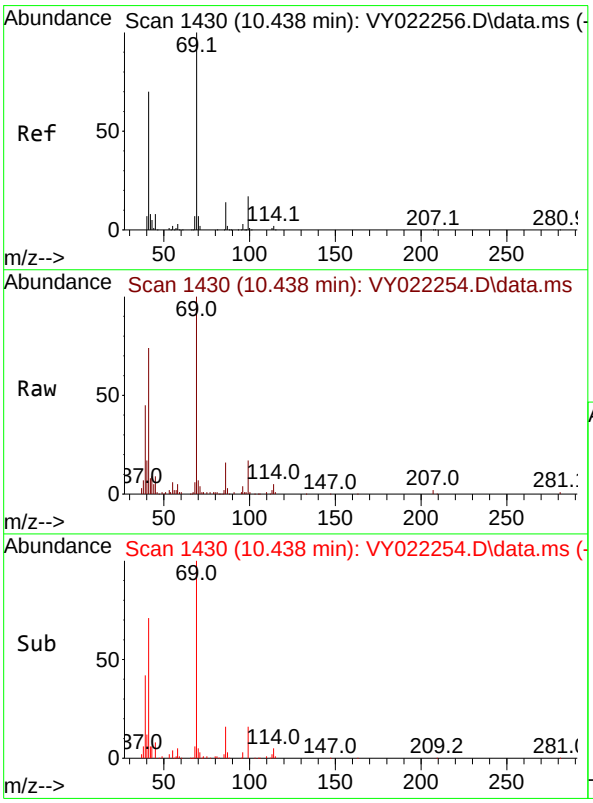
#55
1,1,2-Trichloroethane
Concen: 10.033 ug/l
RT: 10.572 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 97 Resp: 21720

Ion	Ratio	Lower	Upper
97	100		
83	94.5	70.3	105.5
85	57.6	46.2	69.4
99	63.1	50.3	75.5

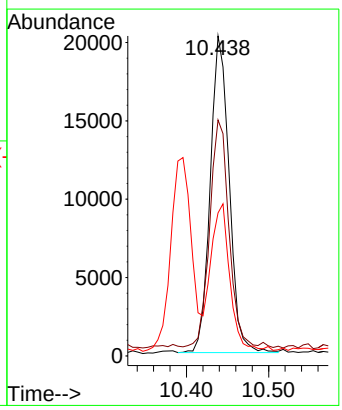


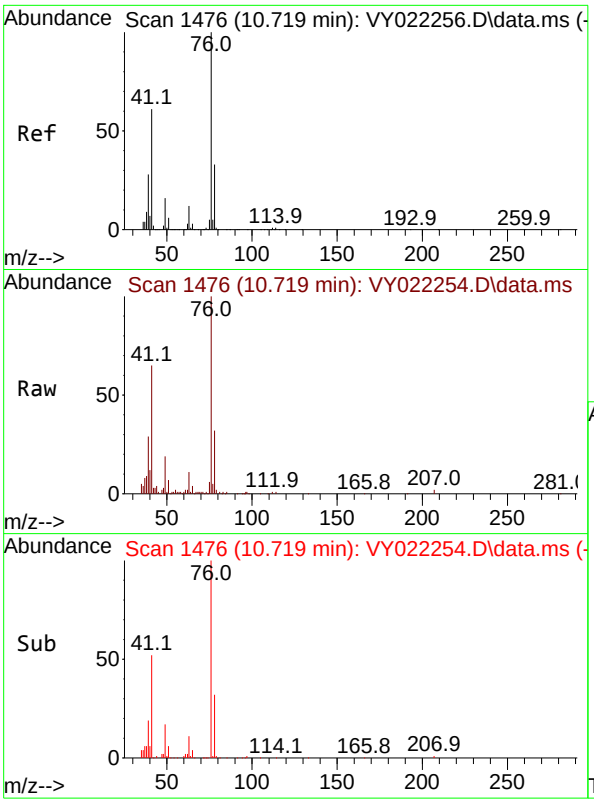


#56
Ethyl methacrylate
Concen: 9.574 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 69 Resp: 32286

Ion	Ratio	Lower	Upper
69	100		
41	72.5	56.5	84.7
39	45.6	37.1	55.7



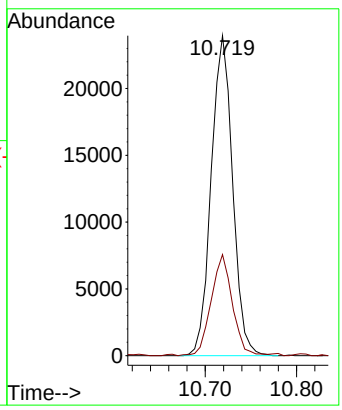


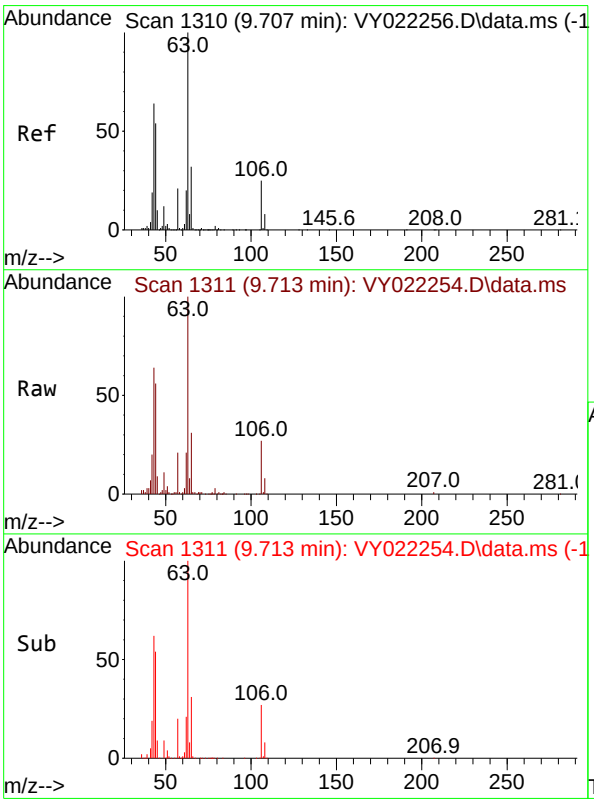
#57
1,3-Dichloropropane
Concen: 10.115 ug/l
RT: 10.719 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 76 Resp: 38908

Ion	Ratio	Lower	Upper
76	100		
78	31.3	25.8	38.8

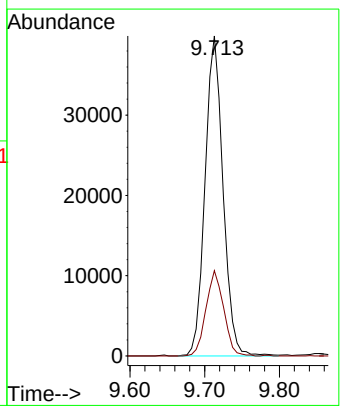


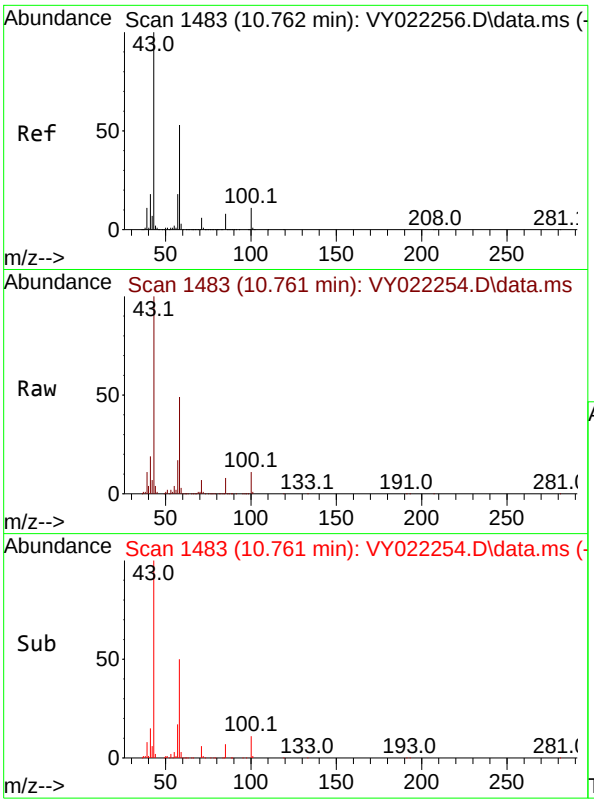


#58
2-Chloroethyl Vinyl ether
Concen: 44.066 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 63 Resp: 66700

Ion	Ratio	Lower	Upper
63	100		
106	26.3	21.0	31.4



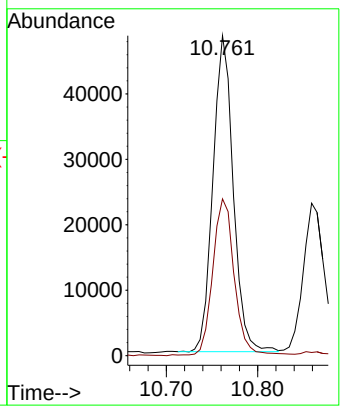


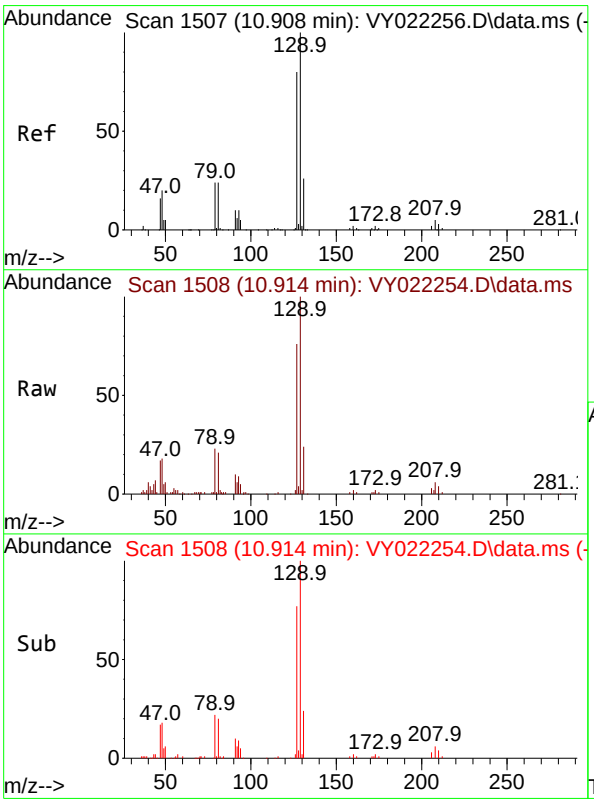
#59
2-Hexanone
Concen: 49.162 ug/l
RT: 10.761 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 43 Resp: 74432

Ion	Ratio	Lower	Upper
43	100		
58	53.2	26.1	78.3

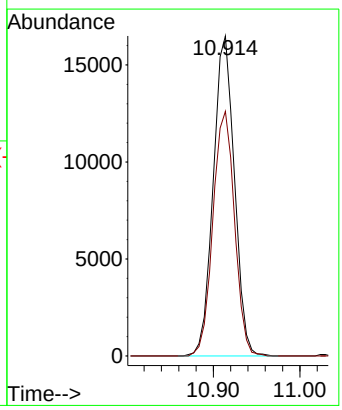


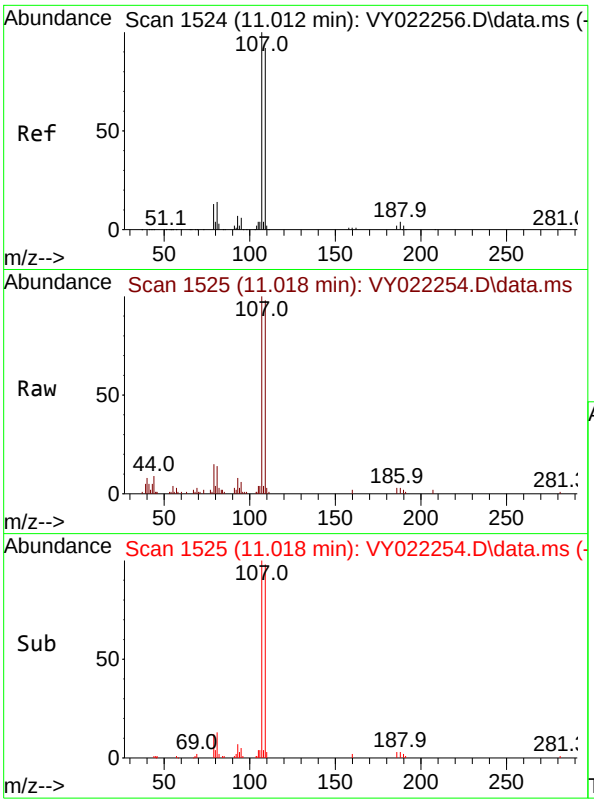


#60
Dibromochloromethane
Concen: 9.965 ug/l
RT: 10.914 min Scan# 1508
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion:129 Resp: 28002

Ion	Ratio	Lower	Upper
129	100		
127	77.8	38.6	115.7



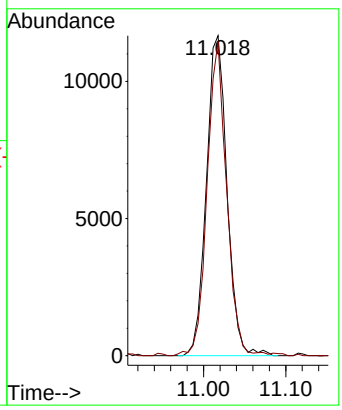


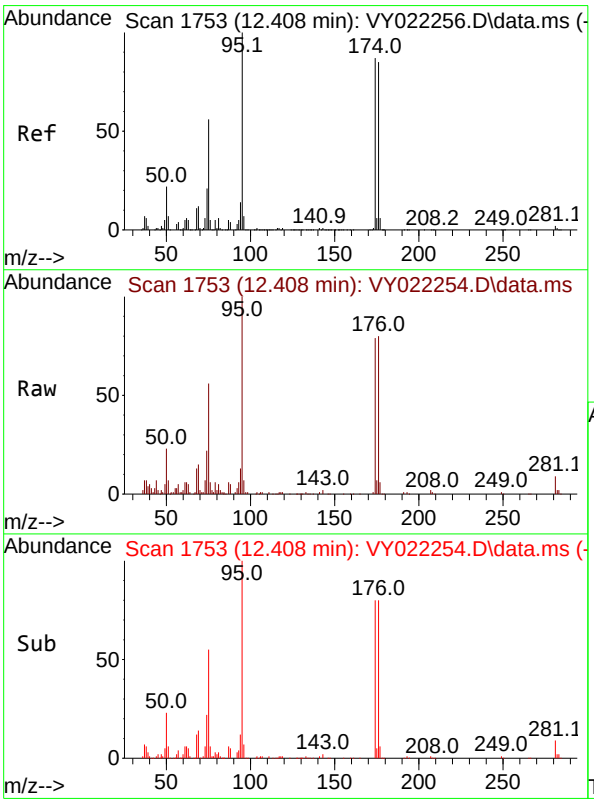
#61
1,2-Dibromoethane
Concen: 10.099 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion:107 Resp: 20378

Ion	Ratio	Lower	Upper
107	100		
109	92.6	74.6	111.8

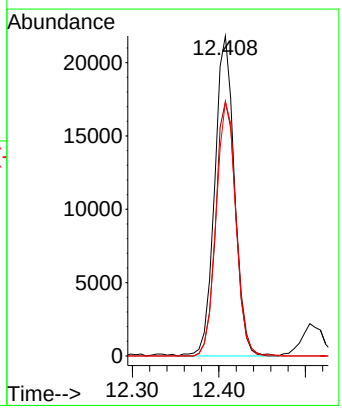


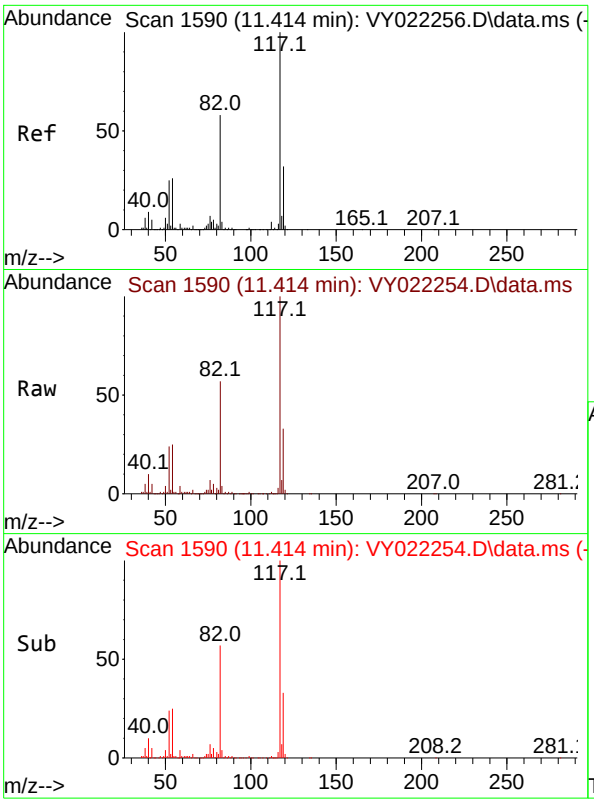


#62
4-Bromofluorobenzene
Concen: 9.959 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 95 Resp: 34423

Ion	Ratio	Lower	Upper
95	100		
174	81.3	0.0	166.8
176	79.7	0.0	160.8



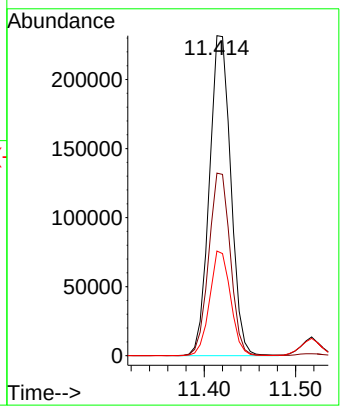


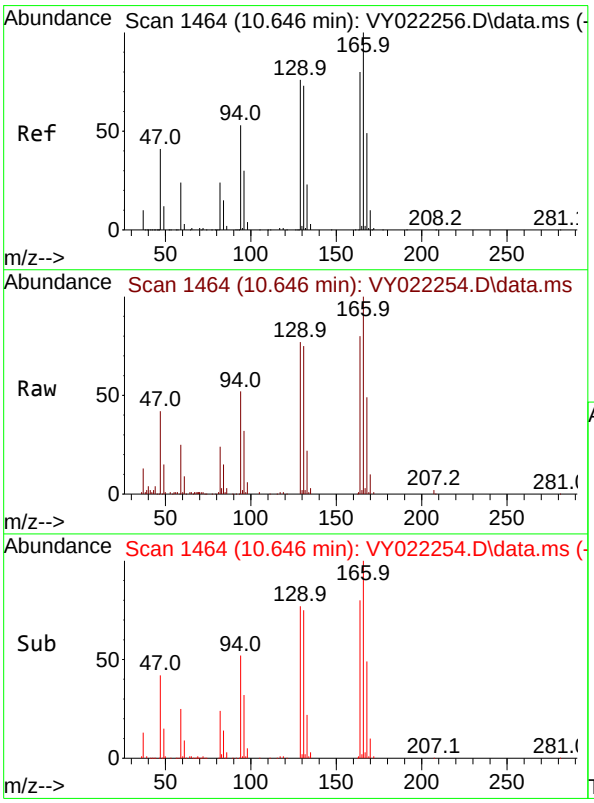
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion:117 Resp: 377211

Ion	Ratio	Lower	Upper
117	100		
82	57.0	46.6	70.0
119	32.7	25.8	38.6

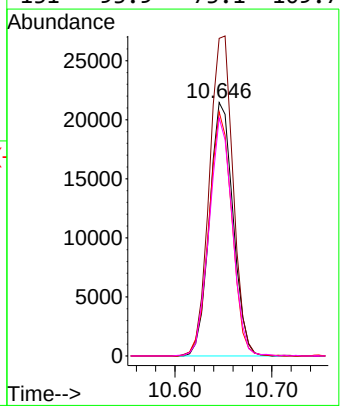


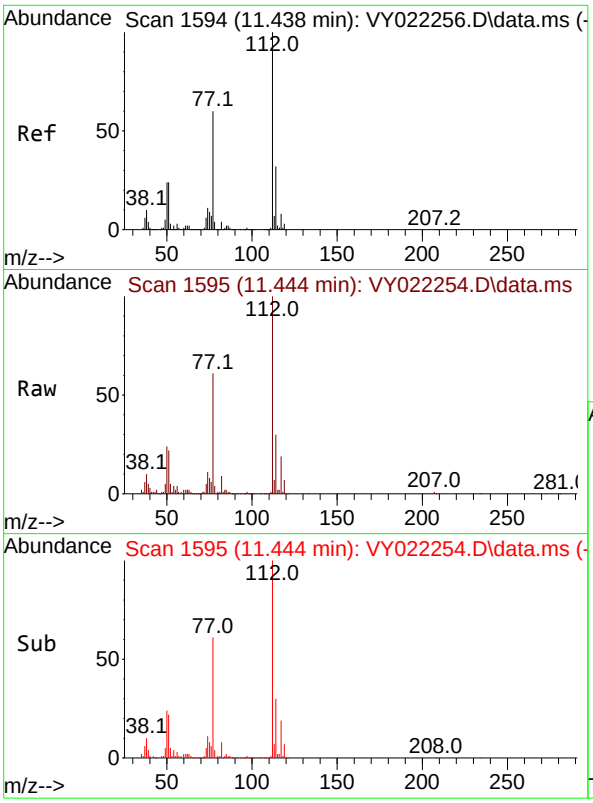


#64
Tetrachloroethene
Concen: 10.404 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion:164 Resp: 36274

Ion	Ratio	Lower	Upper
164	100		
166	125.3	100.4	150.6
129	96.3	76.4	114.6
131	93.9	73.1	109.7



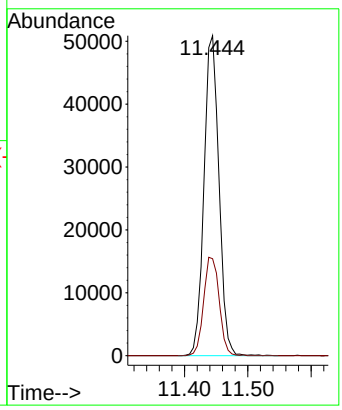


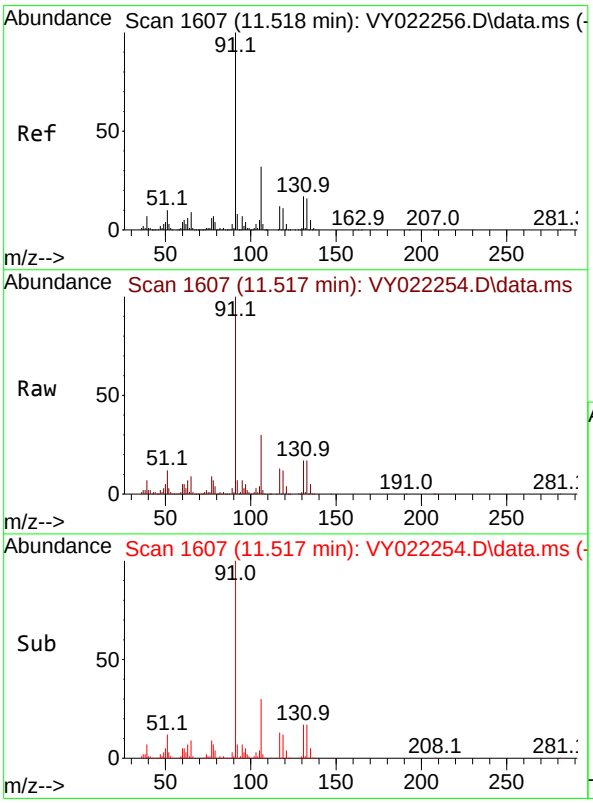
#65
Chlorobenzene
Concen: 9.839 ug/l
RT: 11.444 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion:112 Resp: 83730

Ion	Ratio	Lower	Upper
112	100		
114	30.3	25.8	38.6

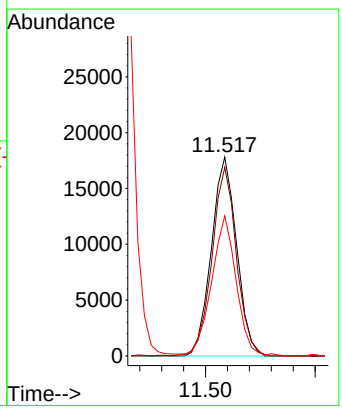


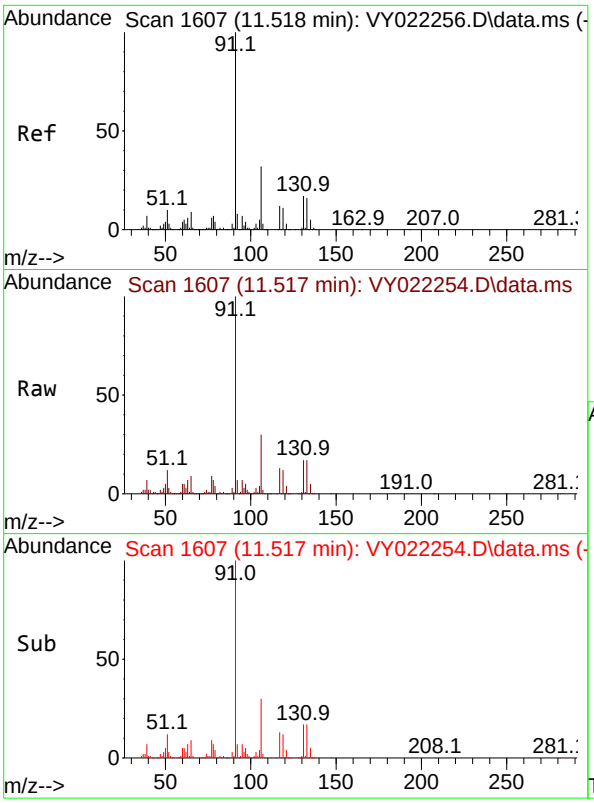


#66
1,1,1,2-Tetrachloroethane
Concen: 9.721 ug/l
RT: 11.517 min Scan# 1607
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion:131 Resp: 28441

Ion	Ratio	Lower	Upper
131	100		
133	92.3	47.3	141.9
119	69.0	33.1	99.2



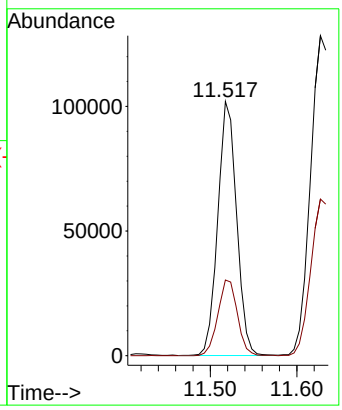


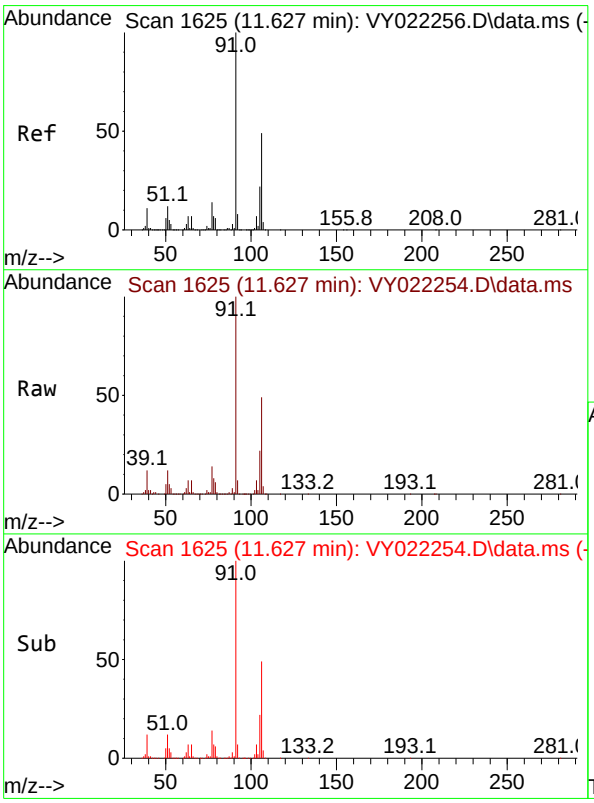
#67
Ethyl Benzene
Concen: 9.672 ug/l
RT: 11.517 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 91 Resp: 154155

Ion	Ratio	Lower	Upper
91	100		
106	29.8	25.4	38.0

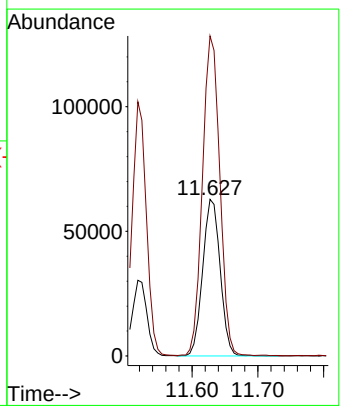


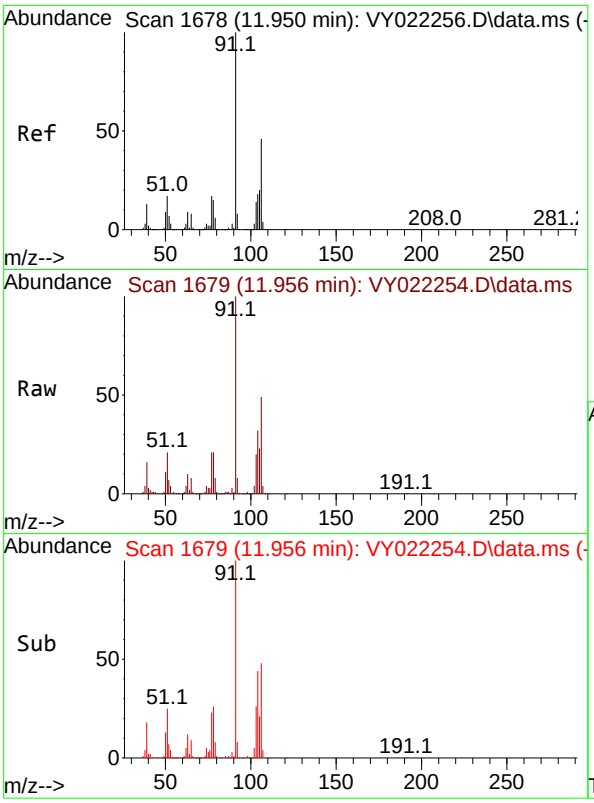


#68
m/p-Xylenes
Concen: 19.334 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion:106 Resp: 116113

Ion	Ratio	Lower	Upper
106	100		
91	202.4	163.0	244.4



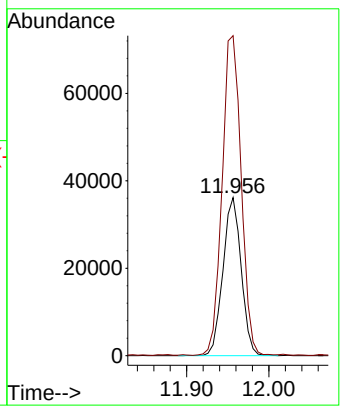


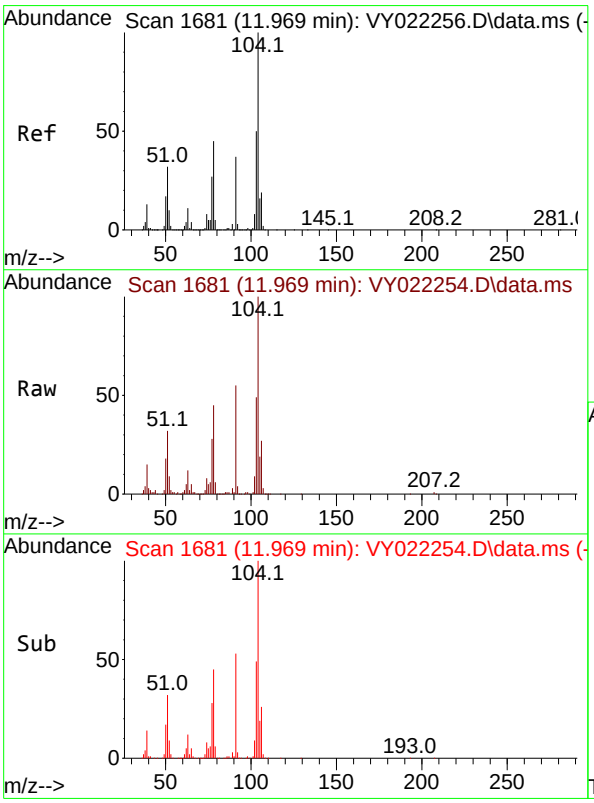
#69
o-Xylene
Concen: 9.837 ug/l
RT: 11.956 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion:106 Resp: 55896

Ion	Ratio	Lower	Upper
106	100		
91	210.6	108.3	324.8

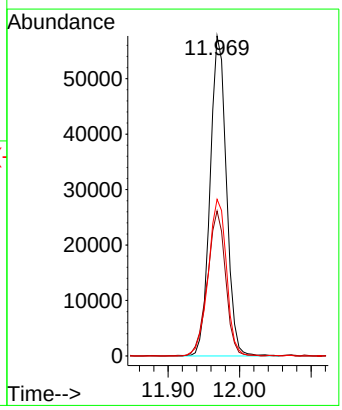


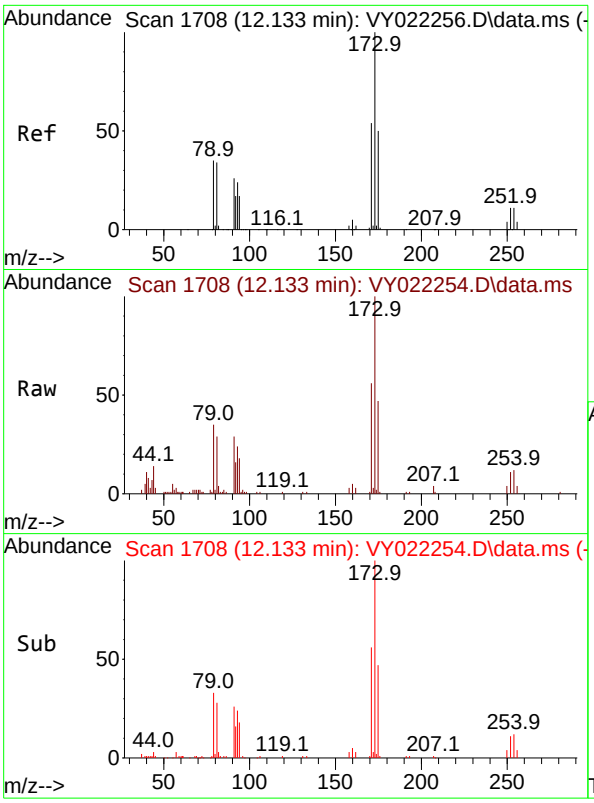


#70
Styrene
Concen: 9.553 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion:104 Resp: 91569

Ion	Ratio	Lower	Upper
104	100		
78	50.4	40.9	61.3
103	54.7	43.7	65.5



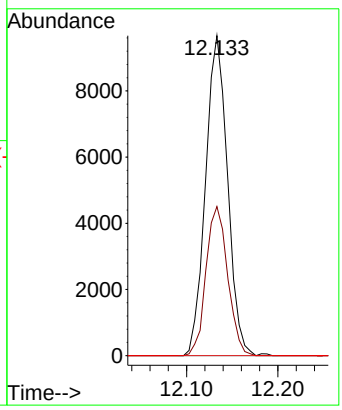


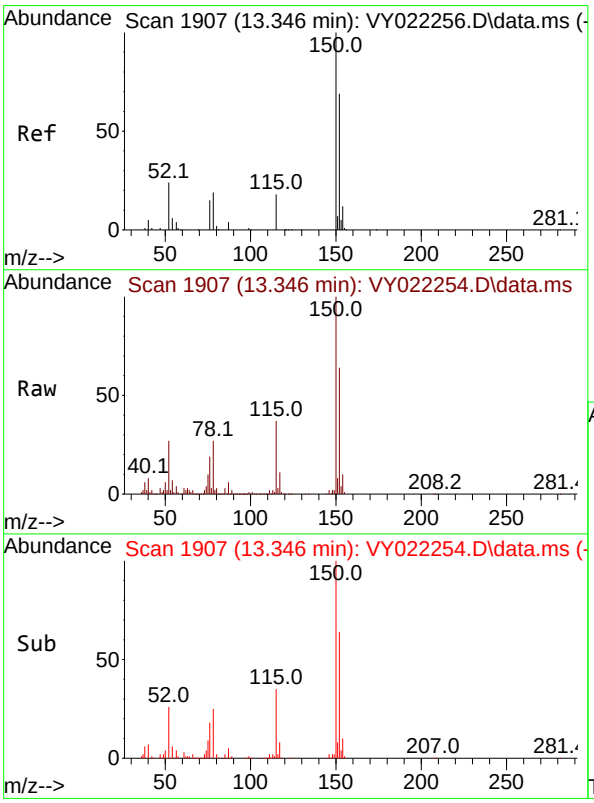
#71
Bromoform
Concen: 10.228 ug/l
RT: 12.133 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion:173 Resp: 16151

Ion	Ratio	Lower	Upper
173	100		
175	45.9	24.7	74.1
254	0.0	0.0	0.0

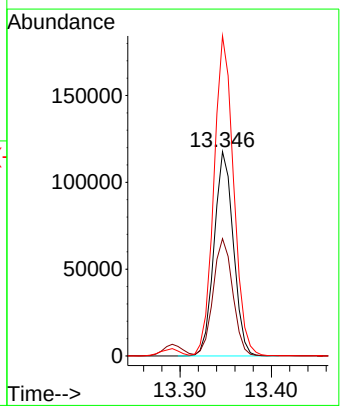


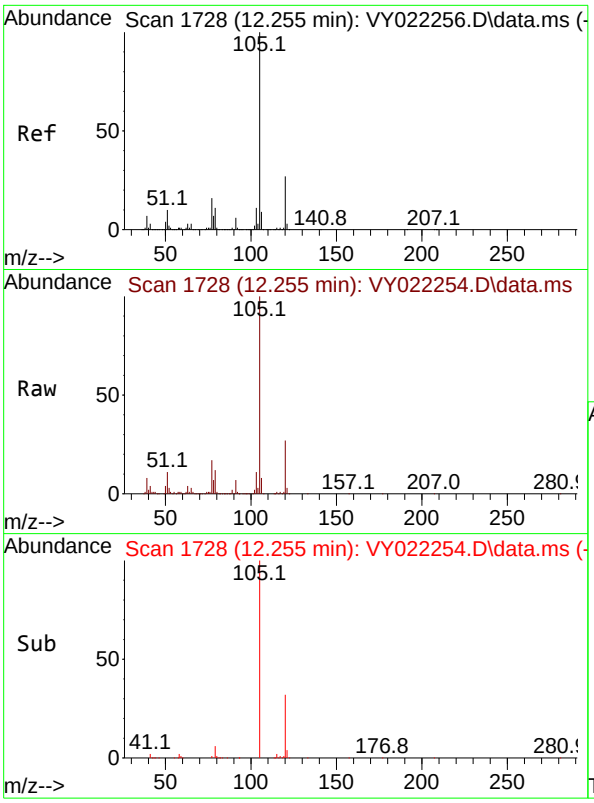


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion:152 Resp: 171972

Ion	Ratio	Lower	Upper
152	100		
115	58.4	29.4	88.2
150	161.2	0.0	353.8



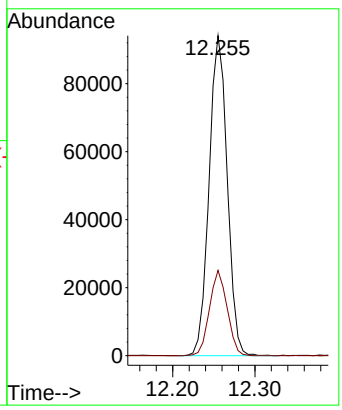


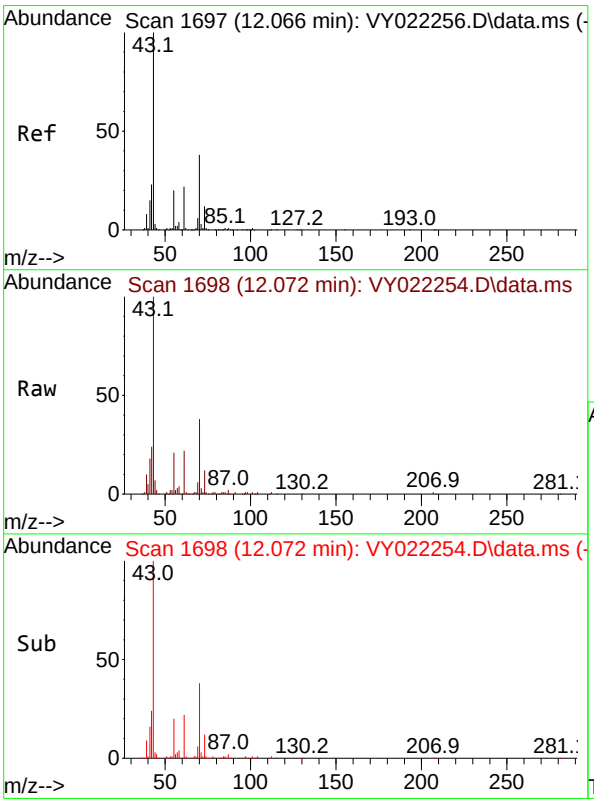
#73
Isopropylbenzene
Concen: 10.120 ug/l
RT: 12.255 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion:105 Resp: 144186

Ion	Ratio	Lower	Upper
105	100		
120	25.9	13.2	39.6

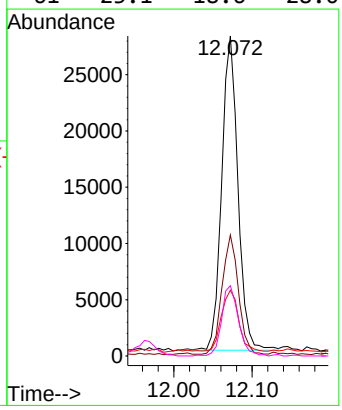


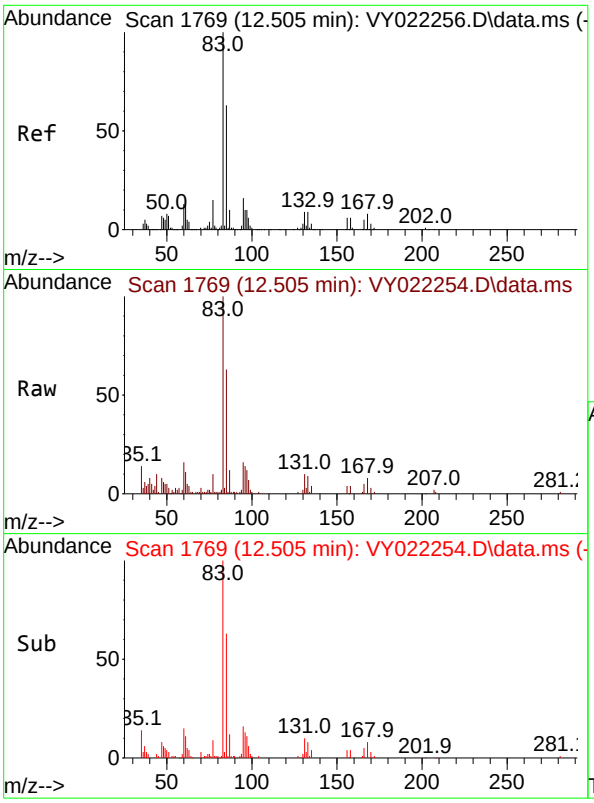


#74
N-amyl acetate
Concen: 9.901 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 43 Resp: 40345

Ion	Ratio	Lower	Upper
43	100		
70	38.2	31.4	47.0
55	20.5	17.0	25.6
61	23.1	18.6	28.0



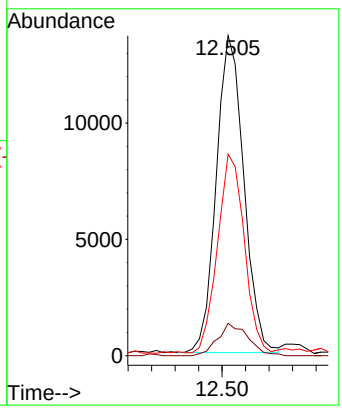


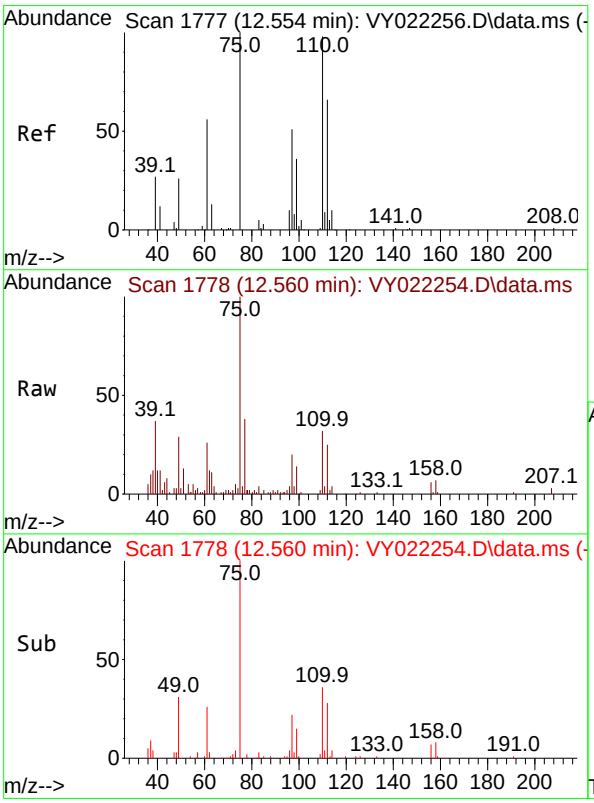
#75
1,1,2,2-Tetrachloroethane
Concen: 10.152 ug/l
RT: 12.505 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 83 Resp: 22243

Ion	Ratio	Lower	Upper
83	100		
131	11.1	4.9	14.7
85	60.8	32.0	96.0

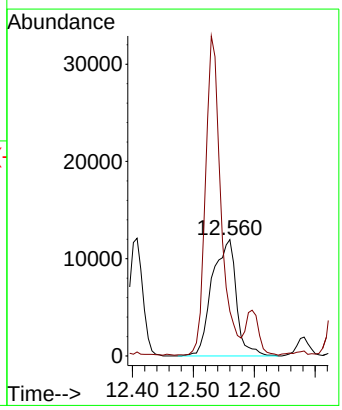


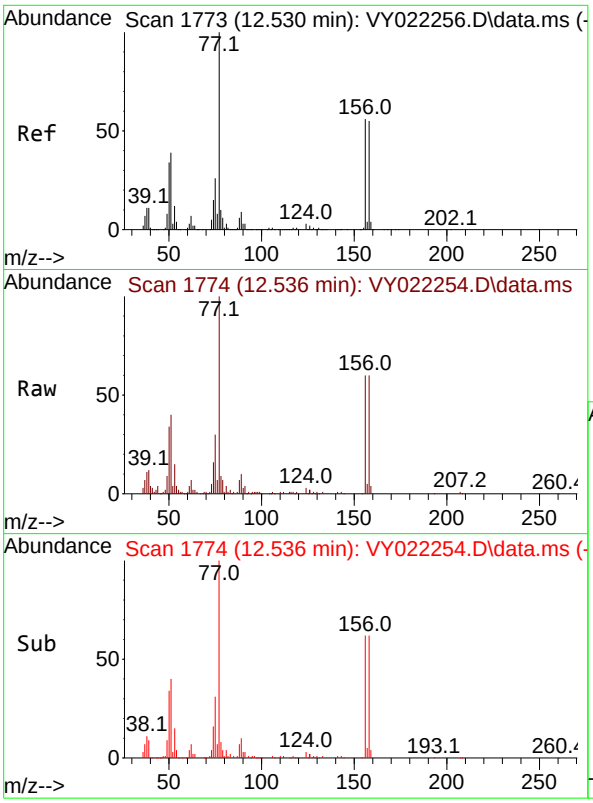


#76
1,2,3-Trichloropropane
Concen: 10.913 ug/l
RT: 12.560 min Scan# 1778
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 75 Resp: 33075

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0



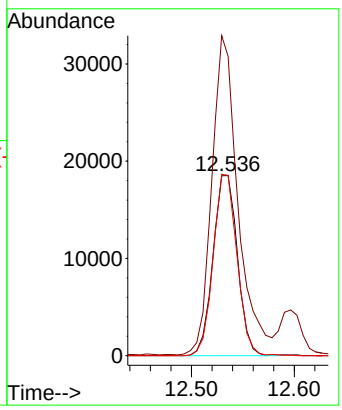


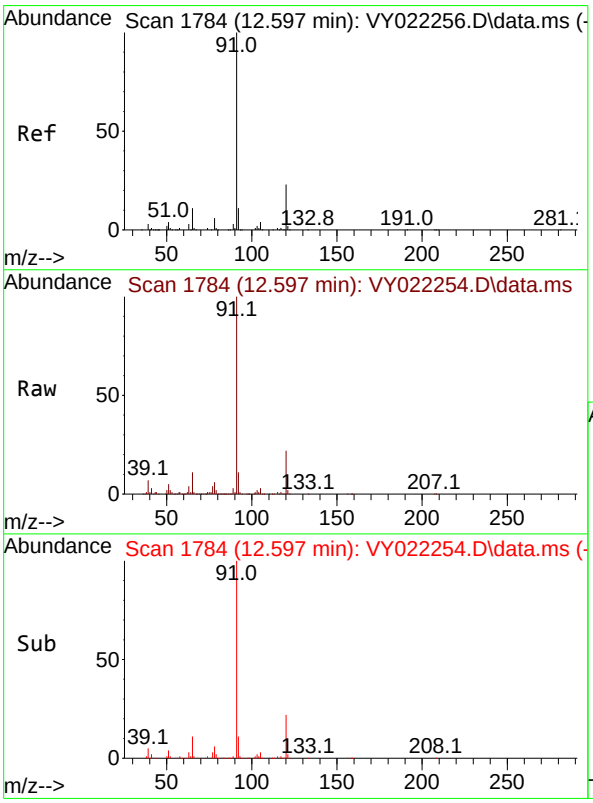
#77
Bromobenzene
Concen: 10.005 ug/l
RT: 12.536 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion:156 Resp: 30445

Ion	Ratio	Lower	Upper
156	100		
77	189.7	94.5	283.6
158	98.1	48.4	145.3

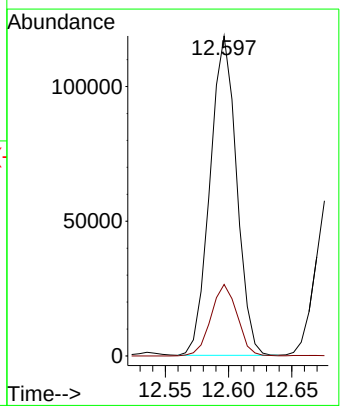


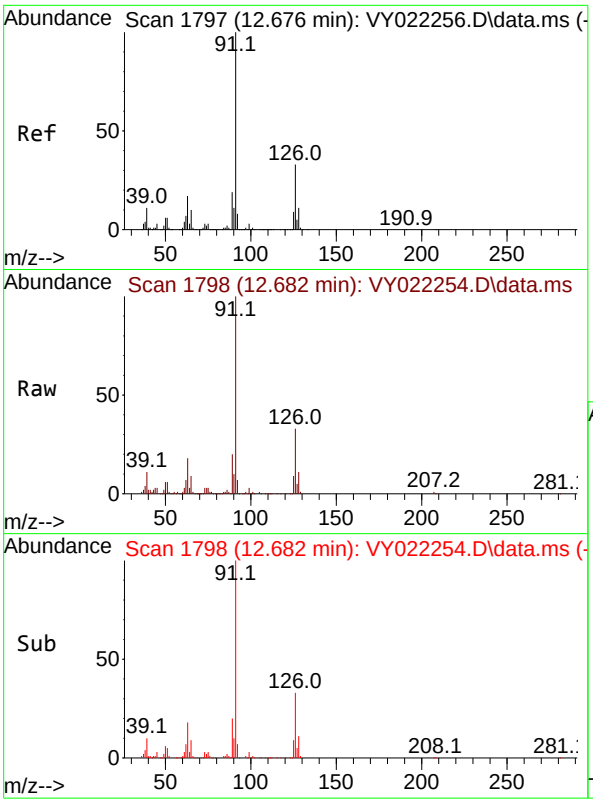


#78
n-propylbenzene
Concen: 10.101 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 91 Resp: 173575

Ion	Ratio	Lower	Upper
91	100		
120	22.1	11.1	33.3



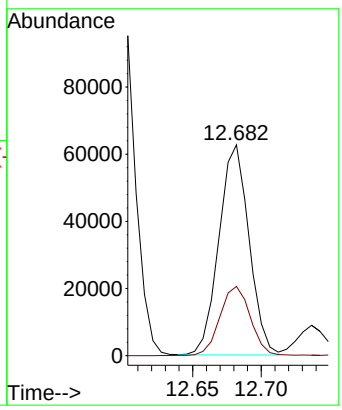


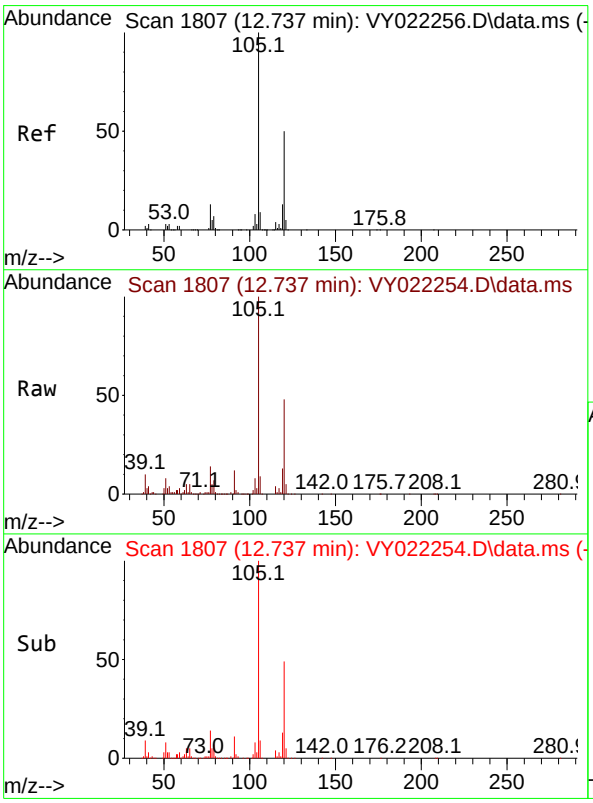
#79
2-Chlorotoluene
Concen: 10.146 ug/l
RT: 12.682 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 91 Resp: 95815

Ion	Ratio	Lower	Upper
91	100		
126	33.6	16.8	50.4

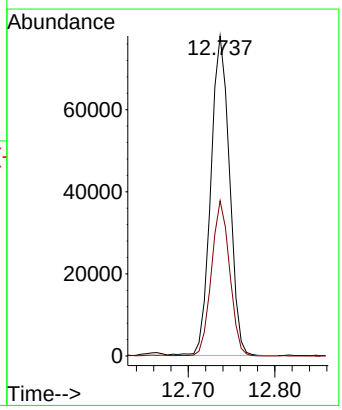


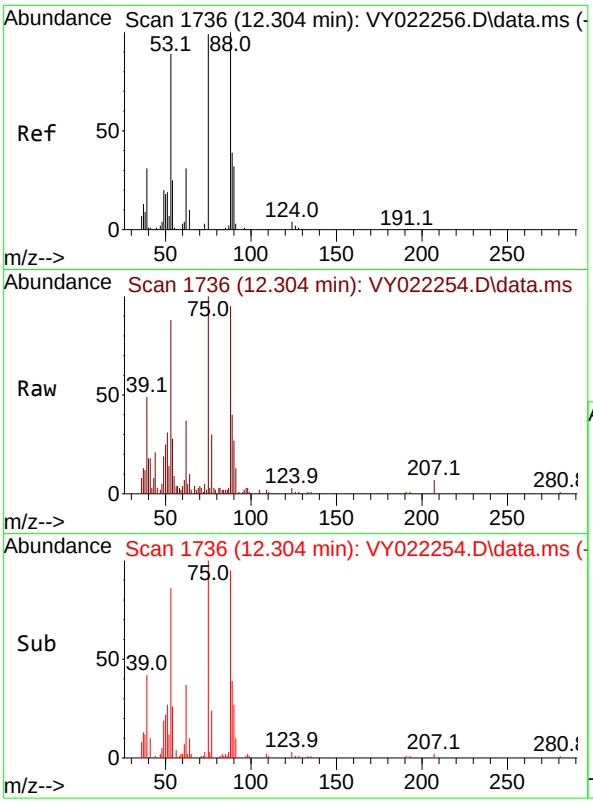


#80
1,3,5-Trimethylbenzene
Concen: 10.126 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion:105 Resp: 116461

Ion	Ratio	Lower	Upper
105	100		
120	47.4	24.2	72.6



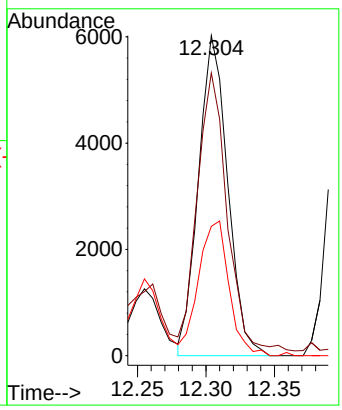


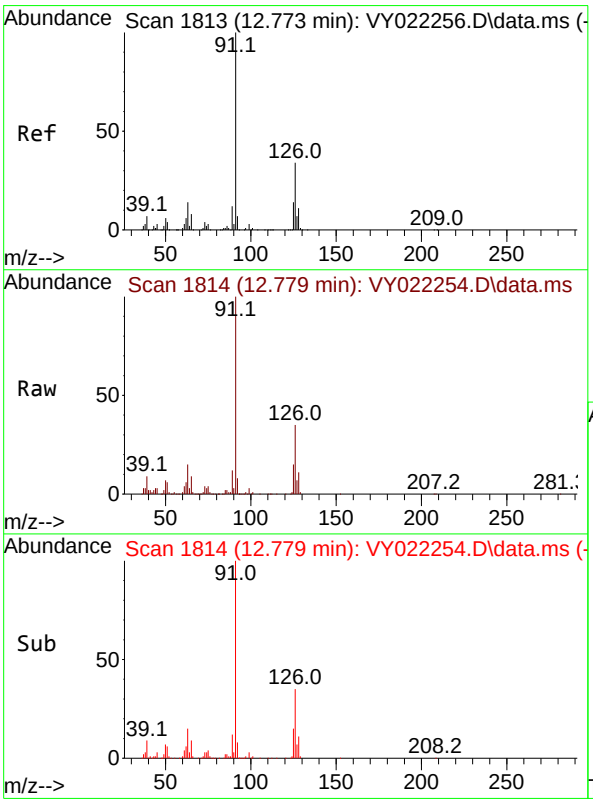
#81
trans-1,4-Dichloro-2-butene
Concen: 10.388 ug/l
RT: 12.304 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 75 Resp: 8934

Ion	Ratio	Lower	Upper
75	100		
53	87.6	75.8	113.8
89	44.0	36.2	54.2

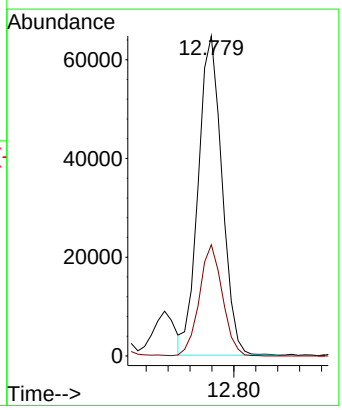


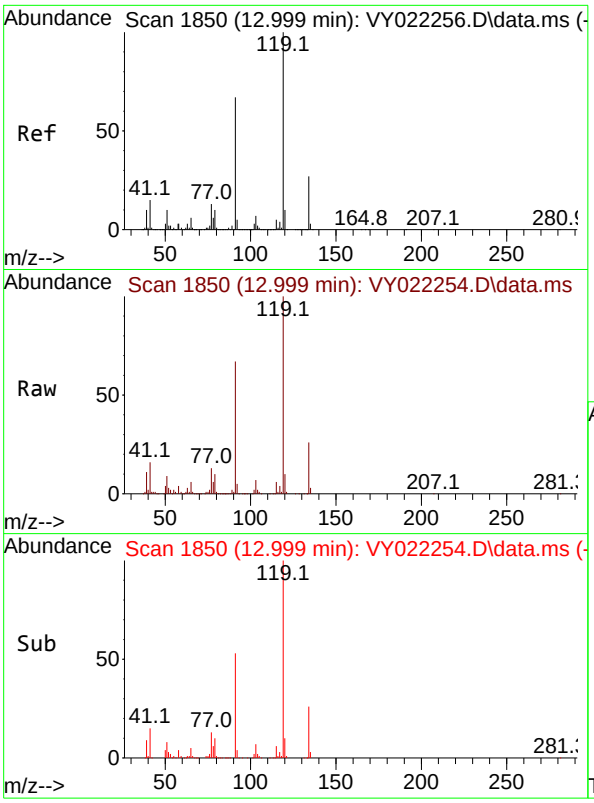


#82
4-Chlorotoluene
Concen: 10.018 ug/l
RT: 12.779 min Scan# 1814
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 91 Resp: 97309

Ion	Ratio	Lower	Upper
91	100		
126	33.9	16.8	50.4



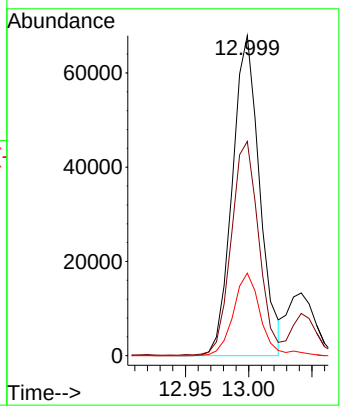


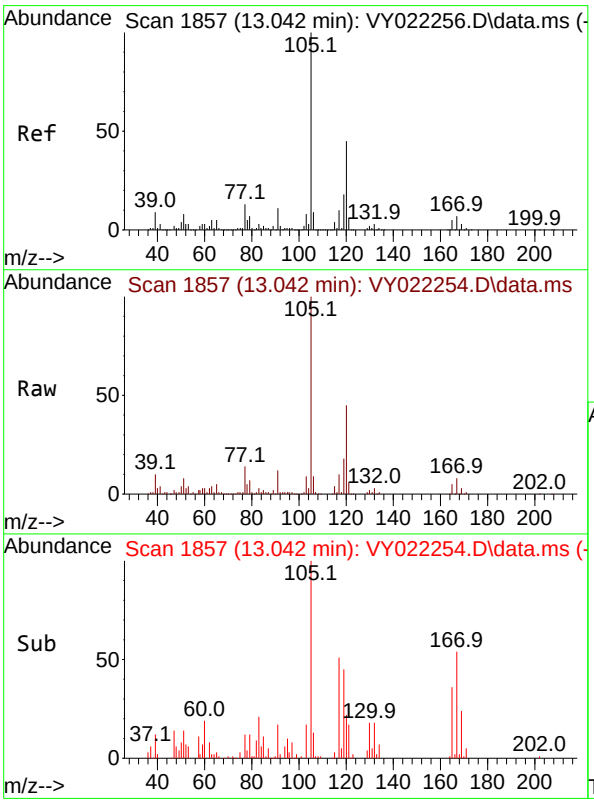
#83
tert-Butylbenzene
Concen: 10.005 ug/l
RT: 12.999 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion:119 Resp: 102274

Ion	Ratio	Lower	Upper
119	100		
91	66.9	32.8	98.3
134	25.7	12.9	38.6

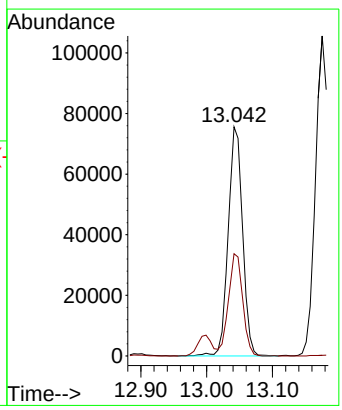


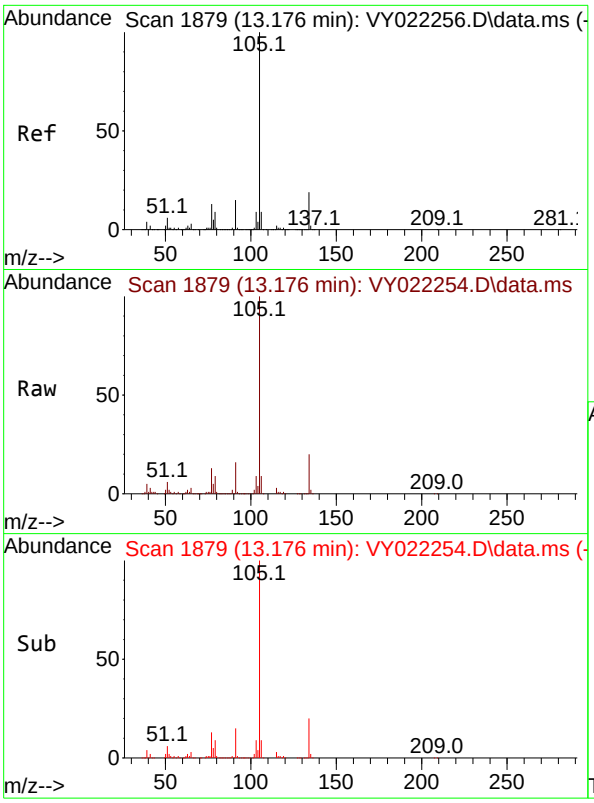


#84
1,2,4-Trimethylbenzene
Concen: 10.088 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion:105 Resp: 115175

Ion	Ratio	Lower	Upper
105	100		
120	44.0	22.3	66.9



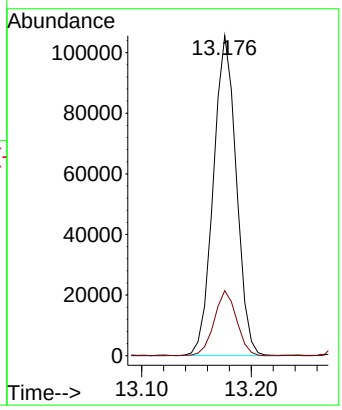


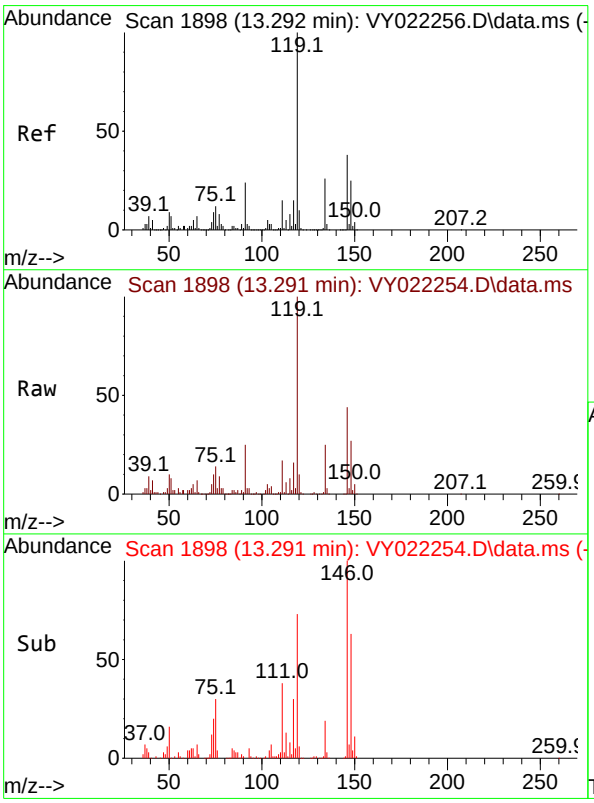
#85
sec-Butylbenzene
Concen: 10.112 ug/l
RT: 13.176 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion:105 Resp: 153443

Ion	Ratio	Lower	Upper
105	100		
134	19.9	9.8	29.5

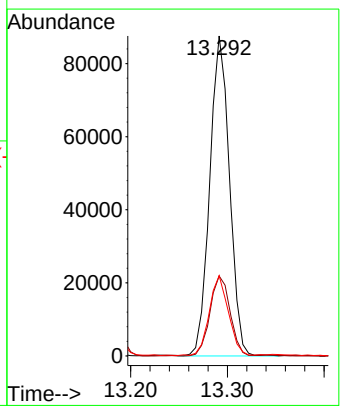


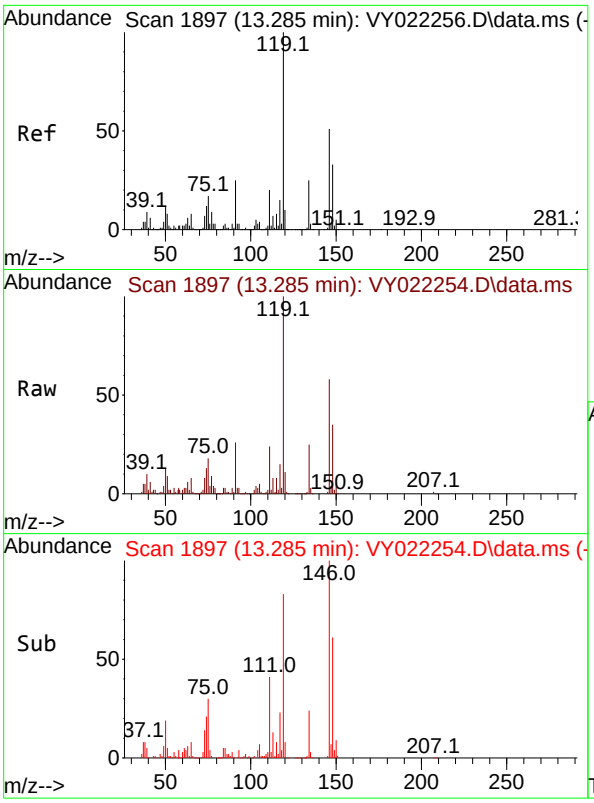


#86
p-Isopropyltoluene
Concen: 9.728 ug/l
RT: 13.291 min Scan# 1898
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion:119 Resp: 124147

Ion	Ratio	Lower	Upper
119	100		
134	25.4	12.9	38.6
91	24.1	12.1	36.3



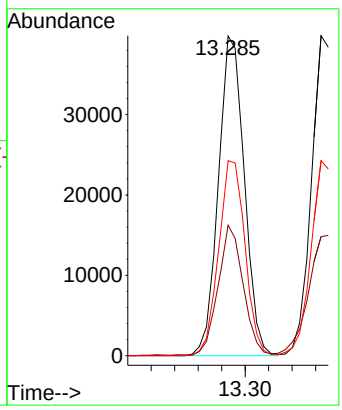


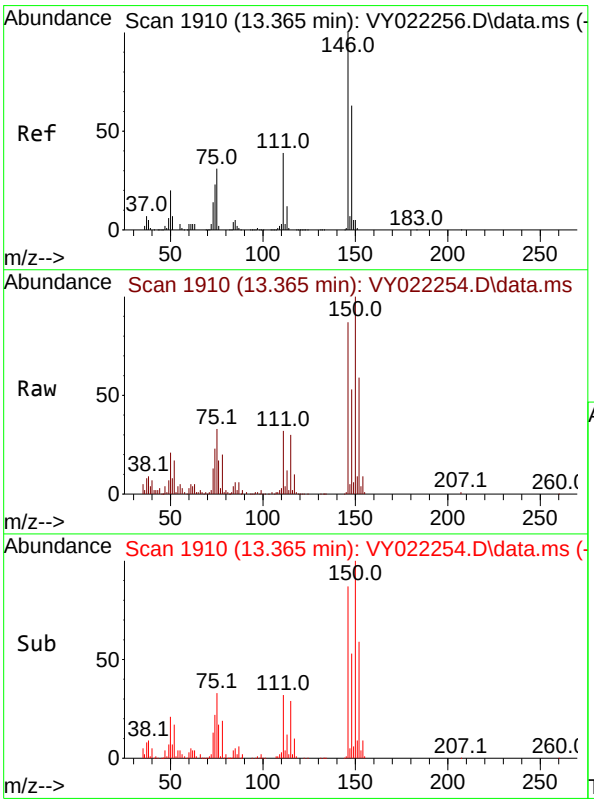
#87
1,3-Dichlorobenzene
Concen: 9.822 ug/l
RT: 13.285 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion:146 Resp: 61011

Ion	Ratio	Lower	Upper
146	100		
111	39.3	19.9	59.7
148	62.1	31.9	95.7

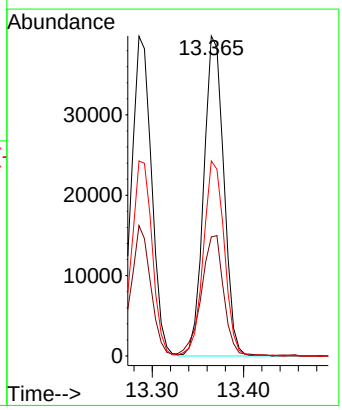


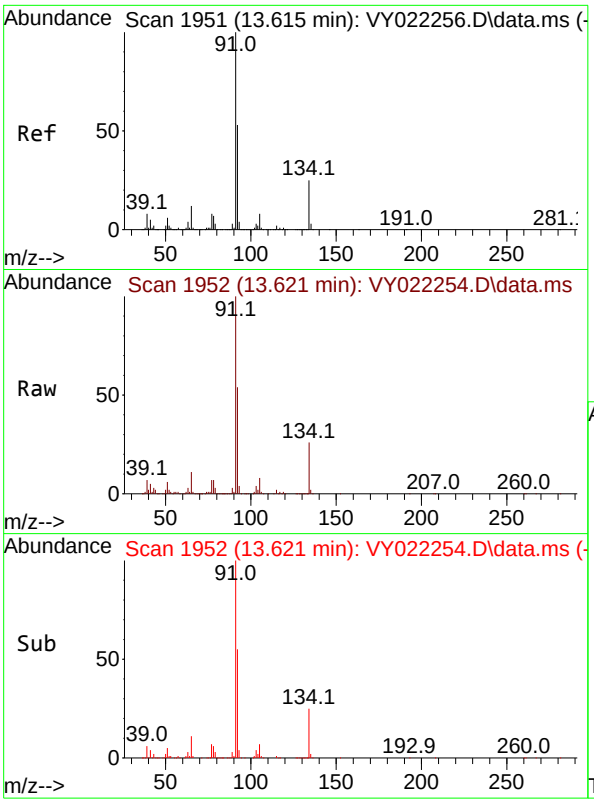


#88
1,4-Dichlorobenzene
Concen: 10.163 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion:146 Resp: 60723

Ion	Ratio	Lower	Upper
146	100		
111	42.0	20.0	59.9
148	62.5	32.1	96.5



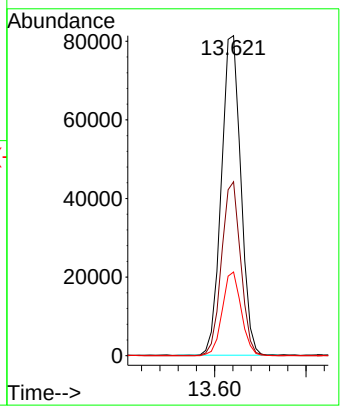


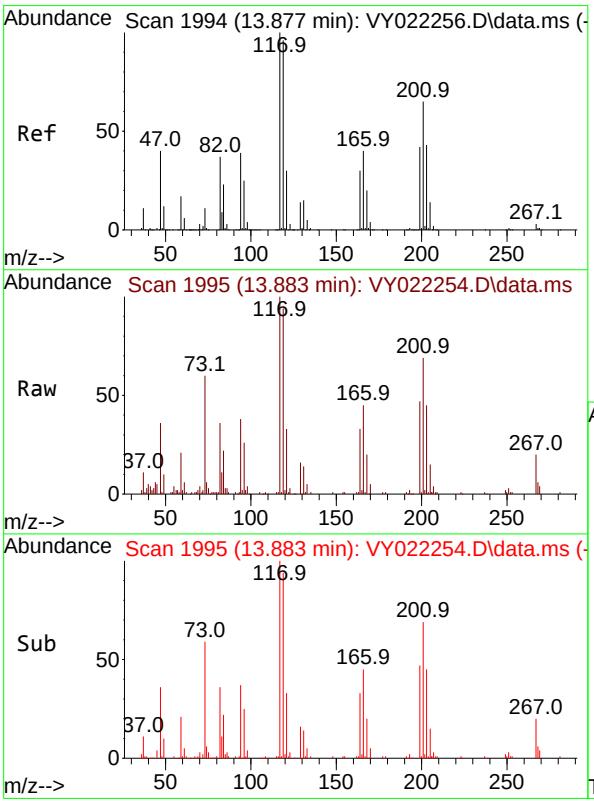
#89
n-Butylbenzene
Concen: 9.970 ug/l
RT: 13.621 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 91 Resp: 120371

Ion	Ratio	Lower	Upper
91	100		
92	53.6	26.3	78.9
134	25.5	12.4	37.4

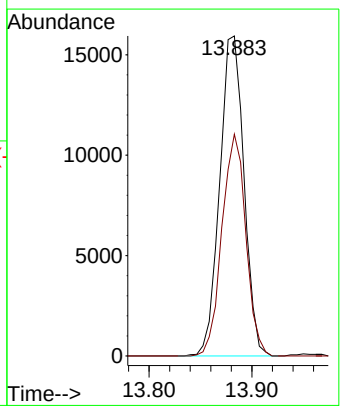


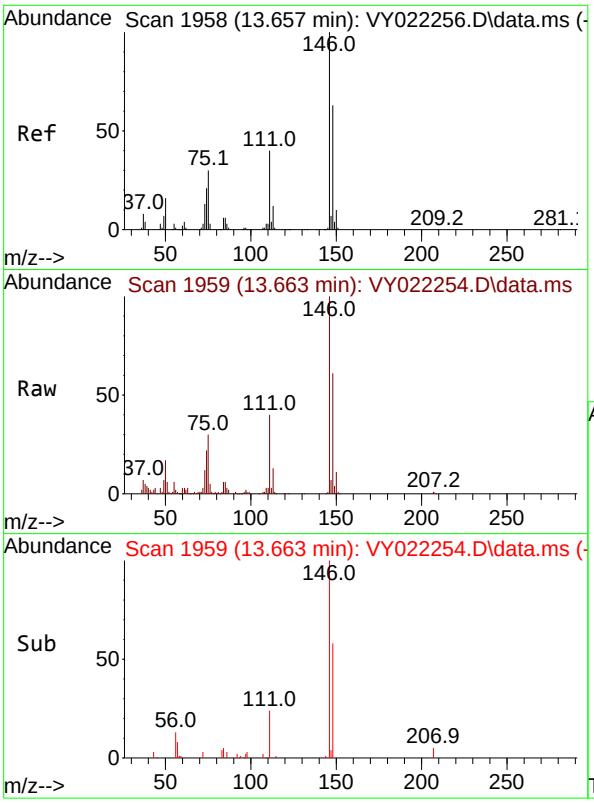


#90
Hexachloroethane
Concen: 10.127 ug/l
RT: 13.883 min Scan# 1995
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion:117 Resp: 26089

Ion	Ratio	Lower	Upper
117	100		
201	68.2	35.2	105.6



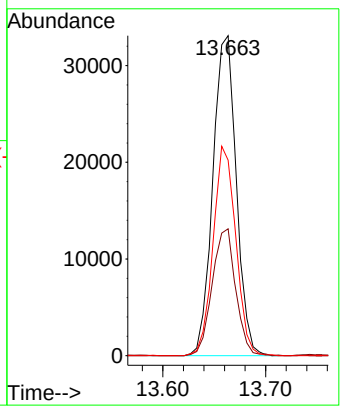


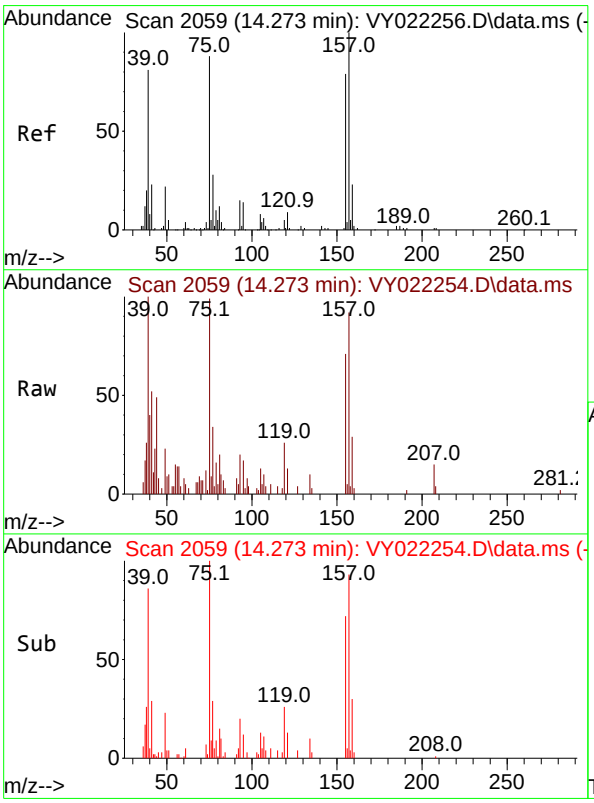
#91
1,2-Dichlorobenzene
Concen: 10.020 ug/l
RT: 13.663 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion:146 Resp: 52282

Ion	Ratio	Lower	Upper
146	100		
111	39.9	20.5	61.5
148	63.5	32.0	96.0

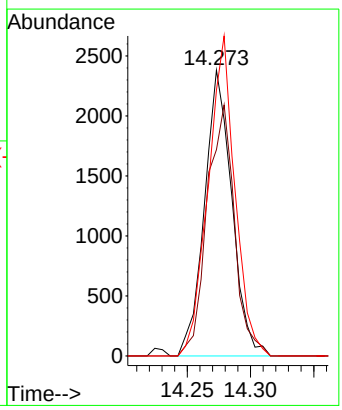


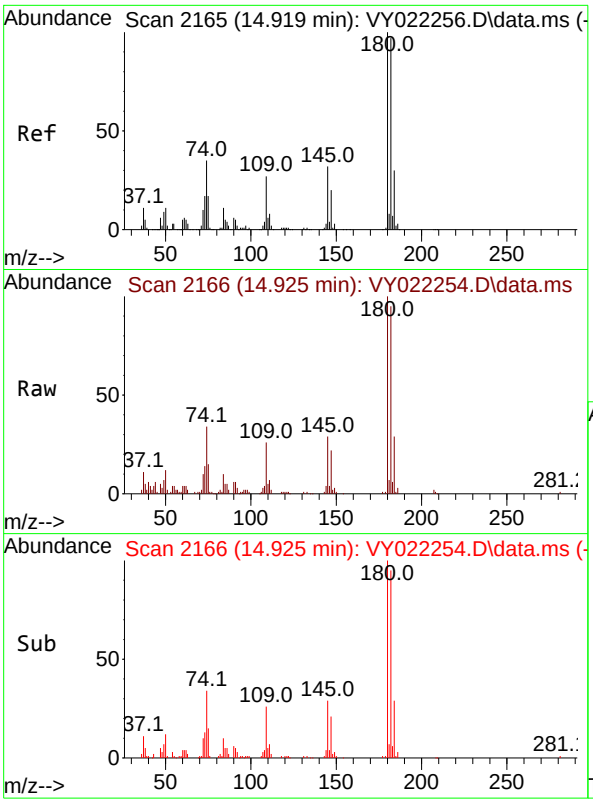


#92
1,2-Dibromo-3-Chloropropane
Concen: 10.155 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion: 75 Resp: 3588

Ion	Ratio	Lower	Upper
75	100		
155	88.0	43.4	130.1
157	109.8	54.6	163.9



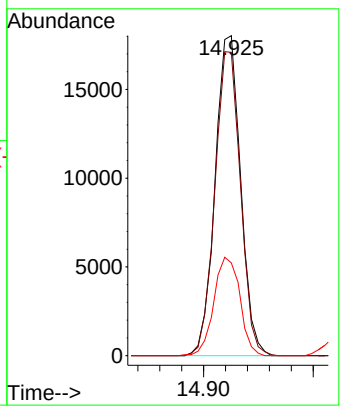


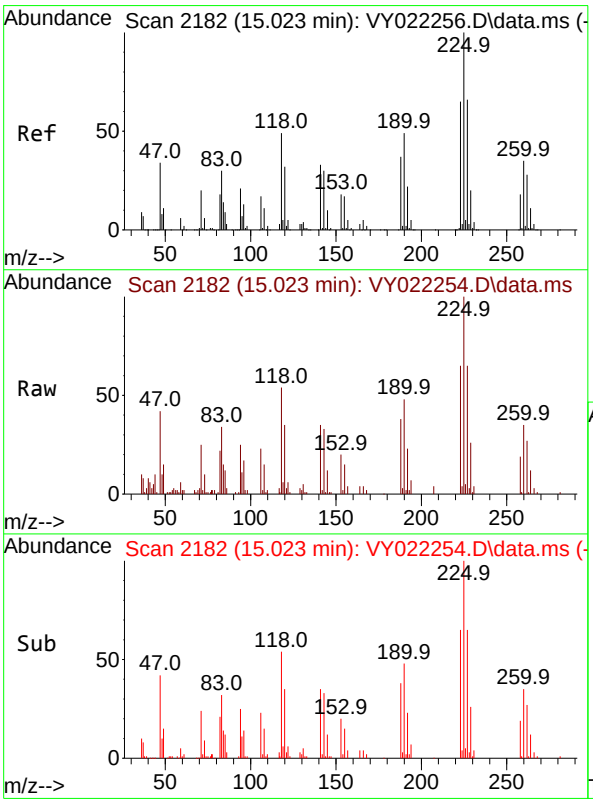
#93
1,2,4-Trichlorobenzene
Concen: 9.646 ug/l
RT: 14.925 min Scan# 21
Delta R.T. 0.006 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion:180 Resp: 29073

Ion	Ratio	Lower	Upper
180	100		
182	95.4	48.0	144.0
145	31.4	15.0	45.1

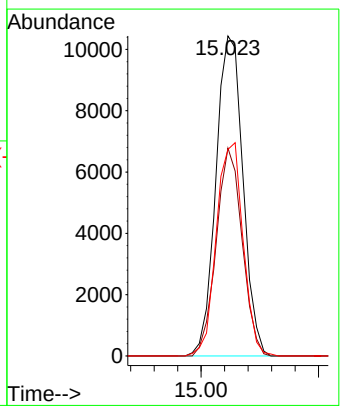


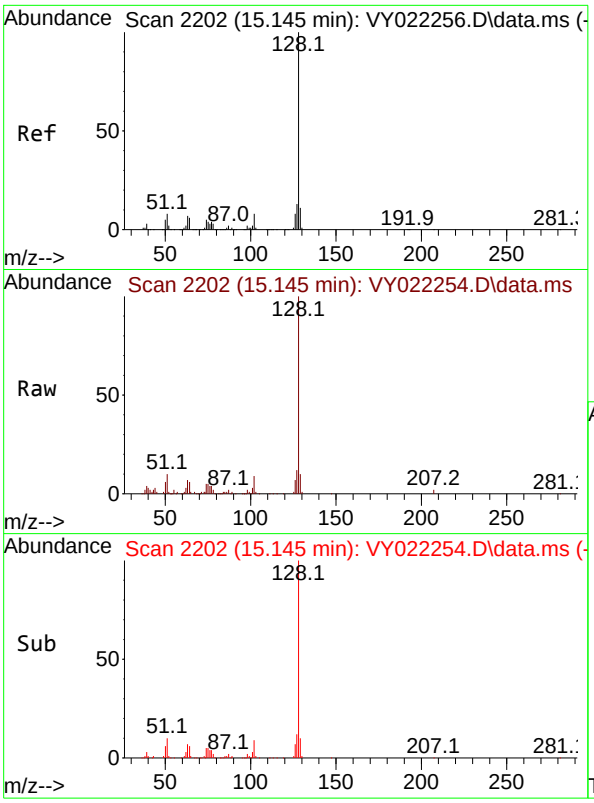


#94
Hexachlorobutadiene
Concen: 9.927 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion:225 Resp: 16686

Ion	Ratio	Lower	Upper
225	100		
223	62.2	31.5	94.5
227	65.8	32.1	96.3



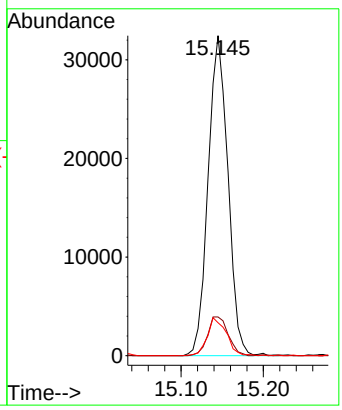


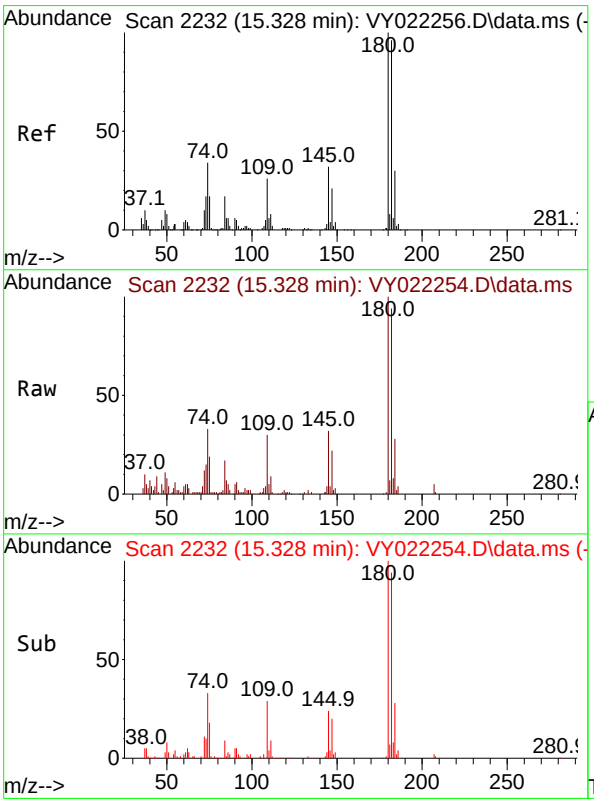
#95
Naphthalene
Concen: 9.495 ug/l
RT: 15.145 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion:128 Resp: 54307

Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.2	15.2
129	11.5	8.8	13.2

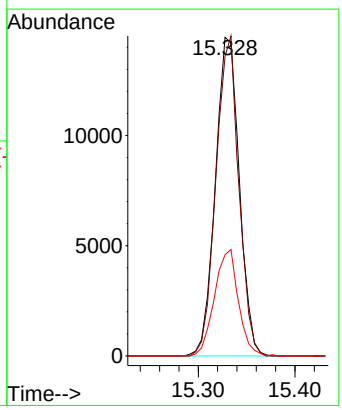




#96
1,2,3-Trichlorobenzene
Concen: 9.696 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. -0.000 min
Lab File: VY022254.D
Acq: 15 May 2025 10:16

Tgt Ion:180 Resp: 24790

Ion	Ratio	Lower	Upper
180	100		
182	95.5	47.1	141.3
145	33.4	15.9	47.6



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022255.D
Acq On : 15 May 2025 10:39
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Quant Time: May 16 01:22:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:19:39 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	262008	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	439816	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	370072	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	172509	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	55221	19.284	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	38.560%#		
35) Dibromofluoromethane	7.634	113	51670	19.683	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	39.360%#		
50) Toluene-d8	10.109	98	210206	19.552	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	39.100%#		
62) 4-Bromofluorobenzene	12.408	95	64706	18.988	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	37.980%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	56737	20.753	ug/l	99
3) Chloromethane	2.068	50	120819	21.008	ug/l	97
4) Vinyl Chloride	2.202	62	132511	20.623	ug/l	96
5) Bromomethane	2.592	94	110855	21.194	ug/l	99
6) Chloroethane	2.732	64	83451	20.877	ug/l	99
7) Trichlorofluoromethane	3.050	101	132029	20.295	ug/l	97
8) Diethyl Ether	3.458	74	29651	18.993	ug/l	98
9) 1,1,2-Trichlorotrifluo...	3.812	101	57012	20.187	ug/l	98
10) Methyl Iodide	4.001	142	65018	19.891	ug/l	98
11) Tert butyl alcohol	4.872	59	19585	89.565	ug/l #	100
12) 1,1-Dichloroethene	3.787	96	56630	20.206	ug/l	98
13) Acrolein	3.653	56	30106	94.178	ug/l	91
14) Allyl chloride	4.385	41	99483	20.244	ug/l	100
15) Acrylonitrile	5.061	53	60119	93.456	ug/l	100
16) Acetone	3.873	43	50198	93.491	ug/l	96
17) Carbon Disulfide	4.104	76	184860	20.228	ug/l	99
18) Methyl Acetate	4.391	43	29969	18.344	ug/l	96
19) Methyl tert-butyl Ether	5.116	73	145976	18.890	ug/l	100
20) Methylene Chloride	4.616	84	67687	19.510	ug/l	99
21) trans-1,2-Dichloroethene	5.116	96	63174	20.422	ug/l	97
22) Diisopropyl ether	6.019	45	202960	19.558	ug/l	99
23) Vinyl Acetate	5.958	43	594019	94.748	ug/l	99
24) 1,1-Dichloroethane	5.915	63	115217	19.873	ug/l	99
25) 2-Butanone	6.896	43	82768	92.157	ug/l	93
26) 2,2-Dichloropropane	6.890	77	101725	19.727	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	70008	19.611	ug/l	98
28) Bromochloromethane	7.244	49	48933	19.787	ug/l	100
29) Tetrahydrofuran	7.262	42	53229	92.122	ug/l	98
30) Chloroform	7.421	83	111815	20.107	ug/l	98
31) Cyclohexane	7.695	56	112876	19.486	ug/l	97
32) 1,1,1-Trichloroethane	7.616	97	100618	19.721	ug/l	100
36) 1,1-Dichloropropene	7.835	75	85789	19.841	ug/l	99
37) Ethyl Acetate	6.988	43	38482	18.497	ug/l	99
38) Carbon Tetrachloride	7.817	117	86871	19.410	ug/l	98
39) Methylcyclohexane	9.109	83	113511	19.540	ug/l	98
40) Benzene	8.079	78	252507	19.700	ug/l	98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022255.D
Acq On : 15 May 2025 10:39
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Quant Time: May 16 01:22:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:19:39 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	7.213	41	22254	14.619 ug/l #	83
42) 1,2-Dichloroethane	8.158	62	66525	19.192 ug/l	99
43) Isopropyl Acetate	8.201	43	84532	18.631 ug/l	97
44) Trichloroethene	8.866	130	63438	19.904 ug/l	96
45) 1,2-Dichloropropane	9.140	63	60438	19.557 ug/l	100
46) Dibromomethane	9.231	93	31752	19.050 ug/l	99
47) Bromodichloromethane	9.426	83	83823	19.385 ug/l	96
48) Methyl methacrylate	9.219	41	39387	18.563 ug/l	99
49) 1,4-Dioxane	9.237	88	7312	388.323 ug/l	93
51) 4-Methyl-2-Pentanone	9.999	43	202454	90.940 ug/l	99
52) Toluene	10.170	92	156498	19.281 ug/l	100
53) t-1,3-Dichloropropene	10.396	75	80413	19.056 ug/l	98
54) cis-1,3-Dichloropropene	9.853	75	94074	19.458 ug/l	99
55) 1,1,2-Trichloroethane	10.573	97	40872	19.149 ug/l	99
56) Ethyl methacrylate	10.438	69	62193	18.706 ug/l	97
57) 1,3-Dichloropropane	10.713	76	72715	19.175 ug/l	98
58) 2-Chloroethyl Vinyl ether	9.707	63	126240	84.595 ug/l	99
59) 2-Hexanone	10.762	43	132496	88.766 ug/l	100
60) Dibromochloromethane	10.914	129	52353	18.898 ug/l	98
61) 1,2-Dibromoethane	11.012	107	37735	18.969 ug/l	99
64) Tetrachloroethene	10.646	164	69548	20.332 ug/l	98
65) Chlorobenzene	11.438	112	163725	19.610 ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.518	131	55078	19.189 ug/l	98
67) Ethyl Benzene	11.518	91	303375	19.402 ug/l	99
68) m/p-Xylenes	11.627	106	225990	38.355 ug/l	100
69) o-Xylene	11.956	106	106998	19.194 ug/l	100
70) Styrene	11.969	104	179114	19.048 ug/l	99
71) Bromoform	12.133	173	28788	18.582 ug/l #	98
73) Isopropylbenzene	12.255	105	282895	19.795 ug/l	100
74) N-amyl acetate	12.072	43	76841	18.799 ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.505	83	40064	18.228 ug/l	97
76) 1,2,3-Trichloropropane	12.554	75	62275	20.483 ug/l #	100
77) Bromobenzene	12.530	156	58515	19.170 ug/l	99
78) n-propylbenzene	12.597	91	338383	19.630 ug/l	99
79) 2-Chlorotoluene	12.682	91	185872	19.621 ug/l	99
80) 1,3,5-Trimethylbenzene	12.737	105	225966	19.587 ug/l	99
81) trans-1,4-Dichloro-2-b...	12.304	75	16653	19.302 ug/l	97
82) 4-Chlorotoluene	12.779	91	189350	19.433 ug/l	100
83) tert-Butylbenzene	12.999	119	200101	19.515 ug/l	99
84) 1,2,4-Trimethylbenzene	13.042	105	221194	19.315 ug/l	98
85) sec-Butylbenzene	13.176	105	297975	19.576 ug/l	100
86) p-Isopropyltoluene	13.292	119	246569	19.261 ug/l	99
87) 1,3-Dichlorobenzene	13.285	146	118336	18.991 ug/l	99
88) 1,4-Dichlorobenzene	13.365	146	117705	19.638 ug/l	99
89) n-Butylbenzene	13.615	91	240857	19.887 ug/l	99
90) Hexachloroethane	13.877	117	50762	19.643 ug/l	98
91) 1,2-Dichlorobenzene	13.657	146	102077	19.502 ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	6387	18.021 ug/l	98
93) 1,2,4-Trichlorobenzene	14.919	180	58490	19.346 ug/l	99
94) Hexachlorobutadiene	15.023	225	34228	20.301 ug/l	100
95) Naphthalene	15.145	128	105350	18.362 ug/l	100
96) 1,2,3-Trichlorobenzene	15.328	180	48444	18.888 ug/l	99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022255.D
Acq On : 15 May 2025 10:39
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Quant Time: May 16 01:22:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:19:39 2025
Response via : Initial Calibration

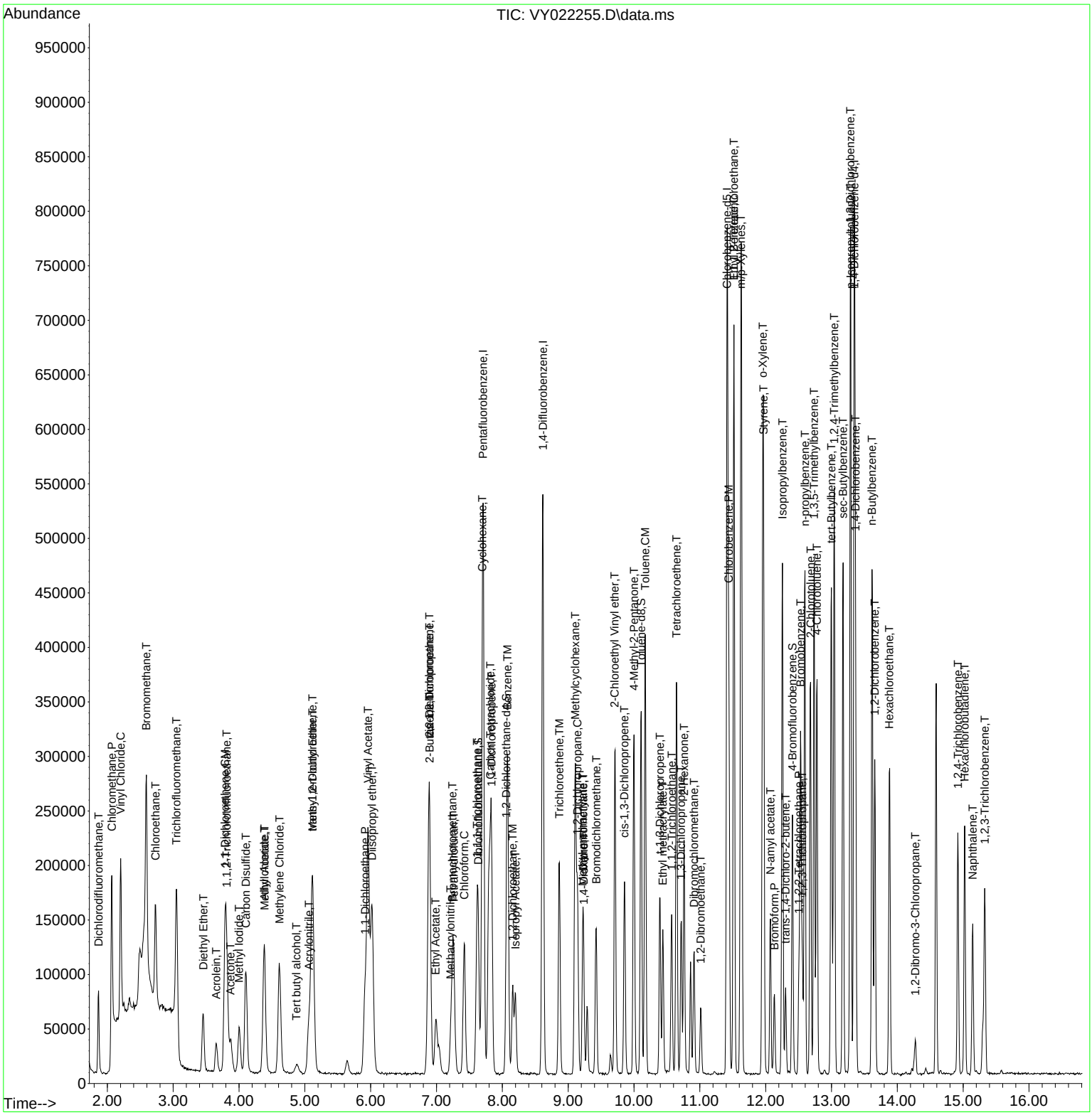
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

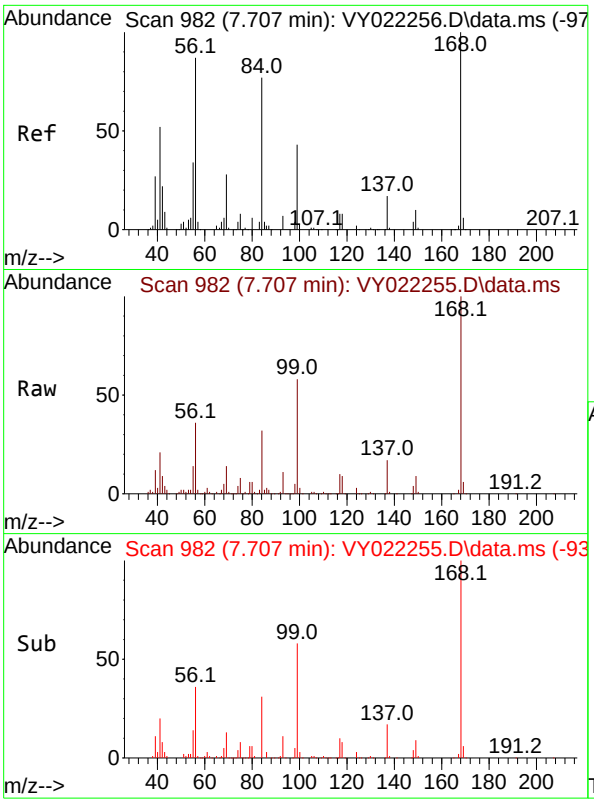
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022255.D
Acq On : 15 May 2025 10:39
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Quant Time: May 16 01:22:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:19:39 2025
Response via : Initial Calibration



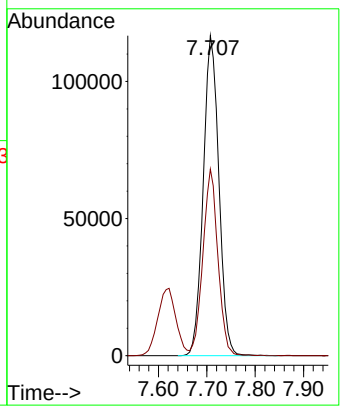


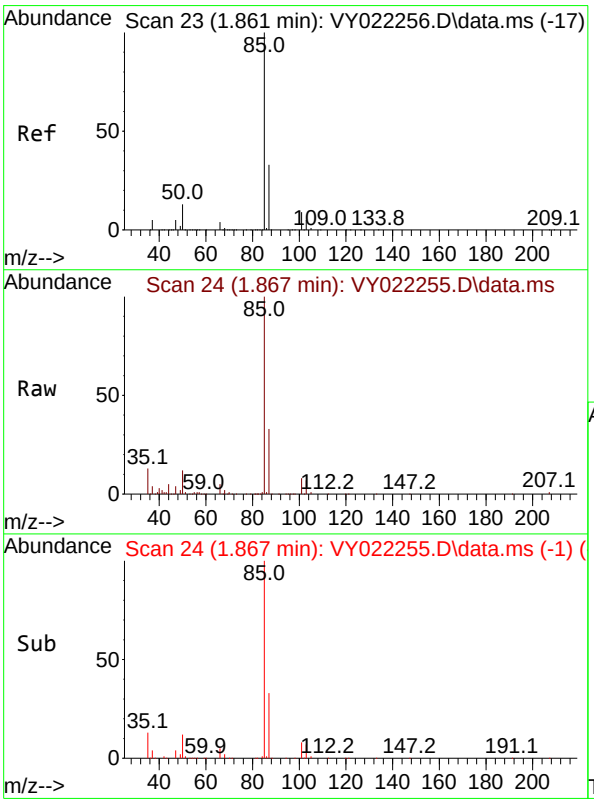
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion:168 Resp: 262008

Ion	Ratio	Lower	Upper
168	100		
99	58.3	44.2	66.4

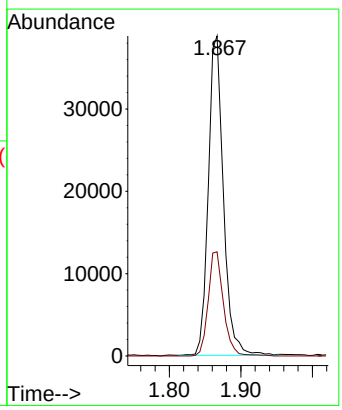


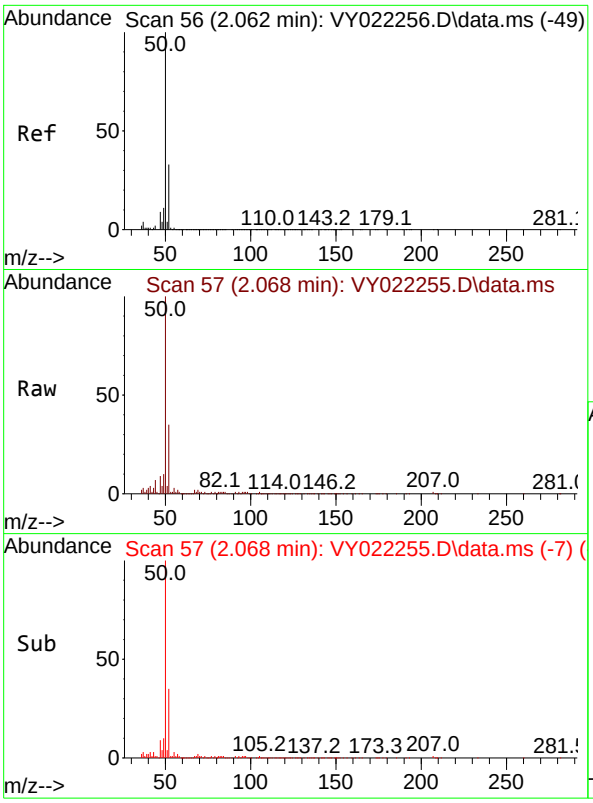


#2
Dichlorodifluoromethane
Concen: 20.753 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.006 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 85 Resp: 56737

Ion	Ratio	Lower	Upper
85	100		
87	32.6	16.5	49.5



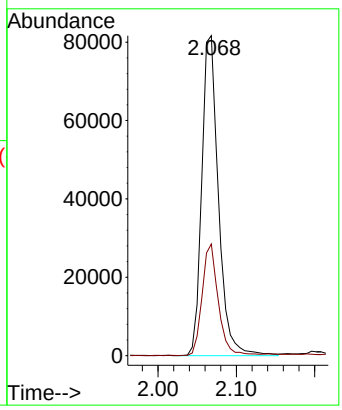


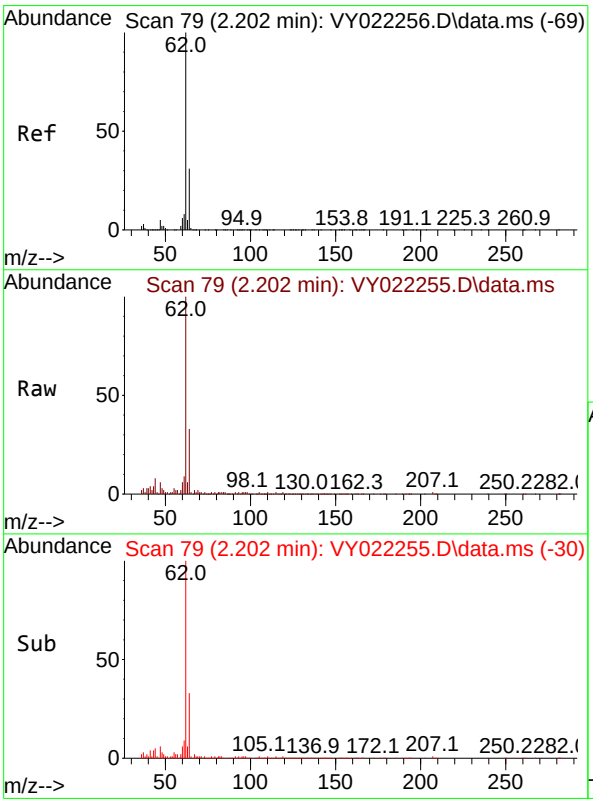
#3
Chloromethane
Concen: 21.008 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 50 Resp: 120819

Ion	Ratio	Lower	Upper
50	100		
52	34.9	26.5	39.7

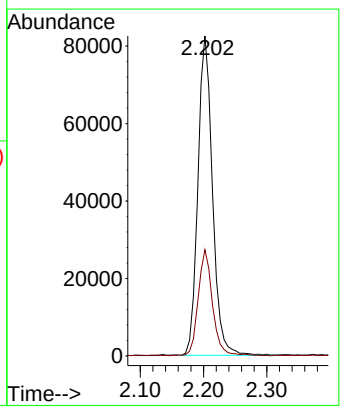


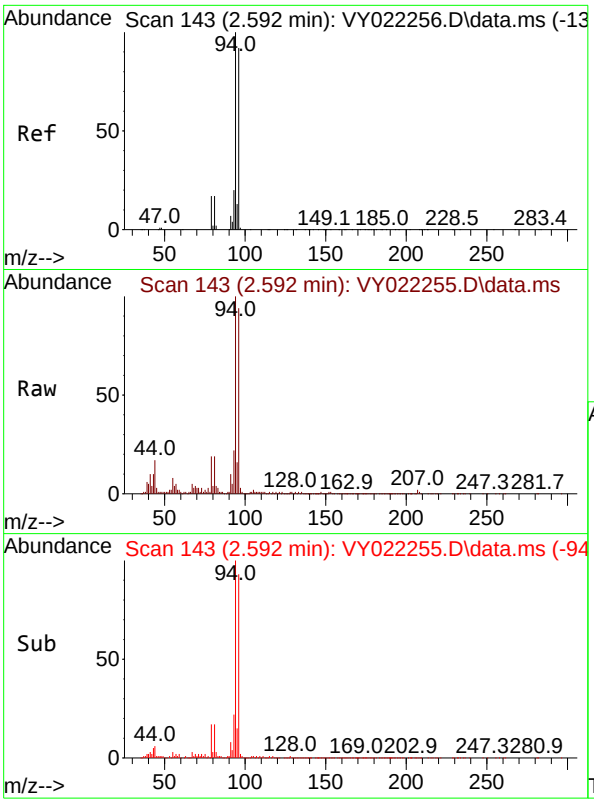


#4
Vinyl Chloride
Concen: 20.623 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 62 Resp: 132511

Ion	Ratio	Lower	Upper
62	100		
64	33.0	24.5	36.7



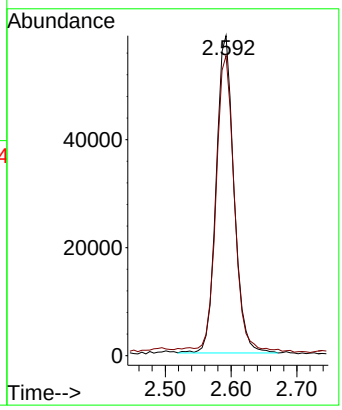


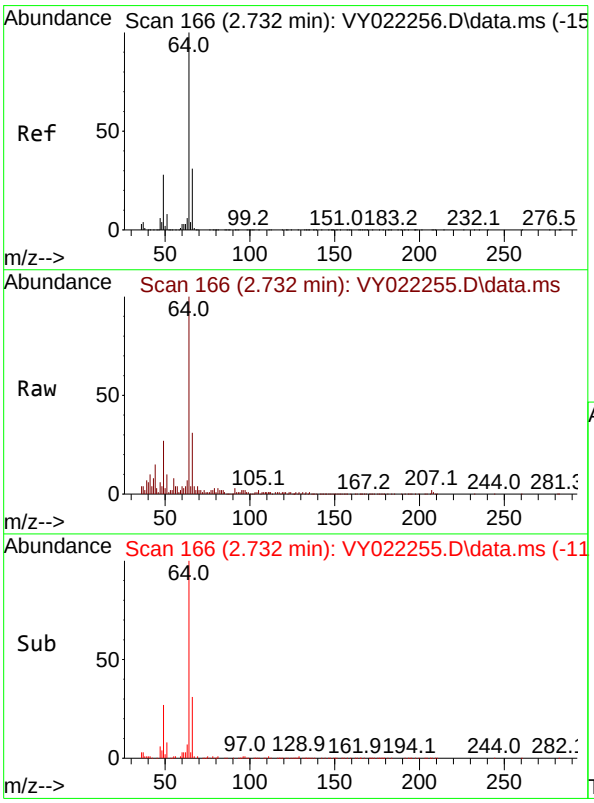
#5
Bromomethane
Concen: 21.194 ug/l
RT: 2.592 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 94 Resp: 110855

Ion	Ratio	Lower	Upper
94	100		
96	92.6	73.4	110.0

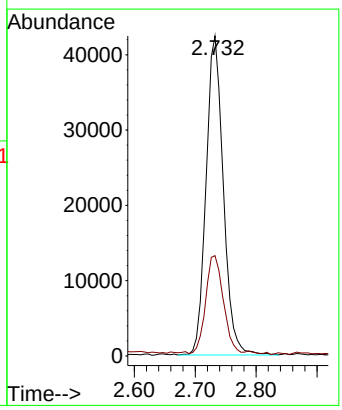


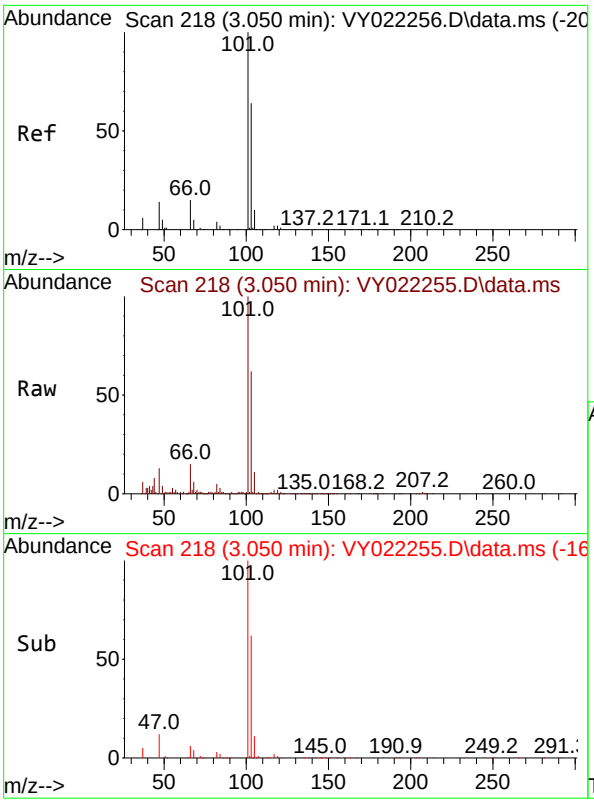


#6
Chloroethane
Concen: 20.877 ug/l
RT: 2.732 min Scan# 166
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 64 Resp: 83451

Ion	Ratio	Lower	Upper
64	100		
66	30.4	24.8	37.2



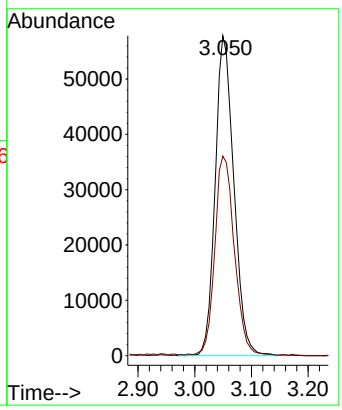


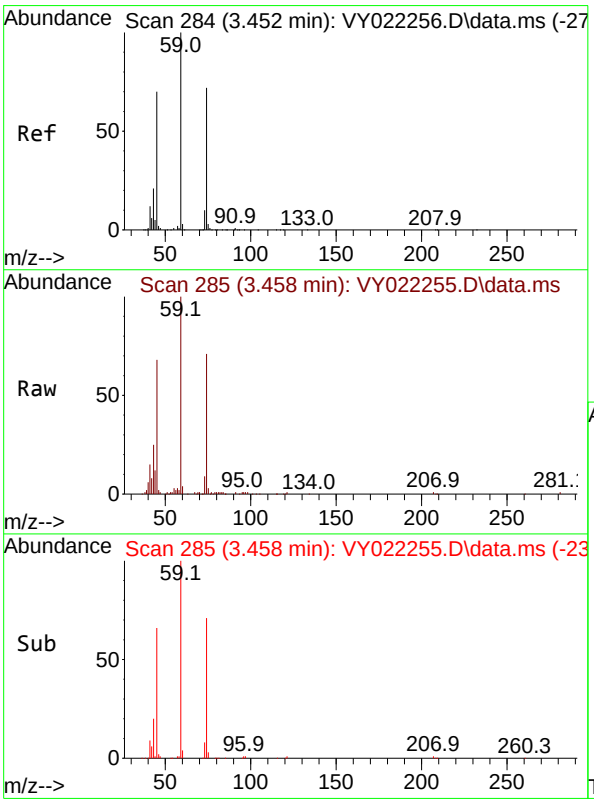
#7
Trichlorofluoromethane
Concen: 20.295 ug/l
RT: 3.050 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion:101 Resp: 132029

Ion	Ratio	Lower	Upper
101	100		
103	62.2	51.7	77.5

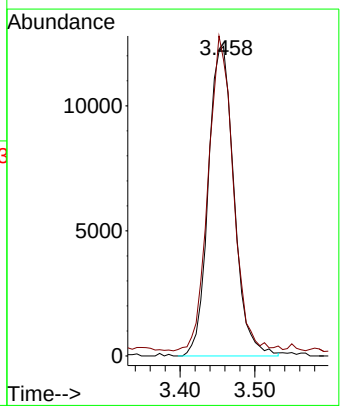


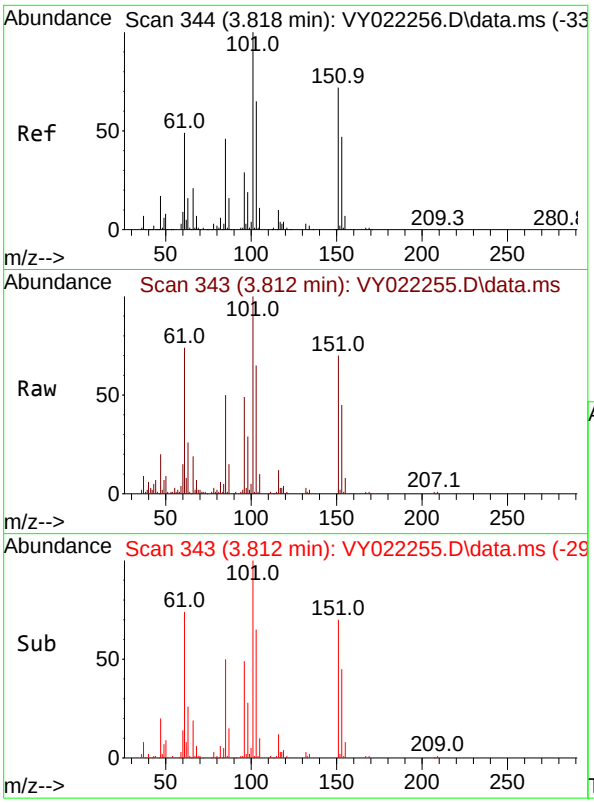


#8
Diethyl Ether
Concen: 18.993 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.006 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 74 Resp: 29651

Ion	Ratio	Lower	Upper
74	100		
45	99.0	48.6	145.8



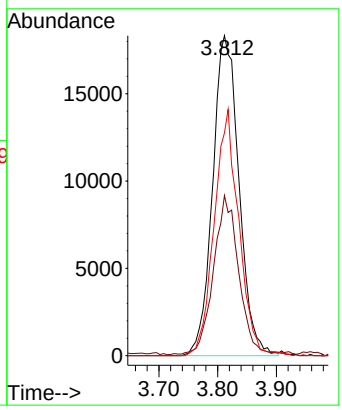


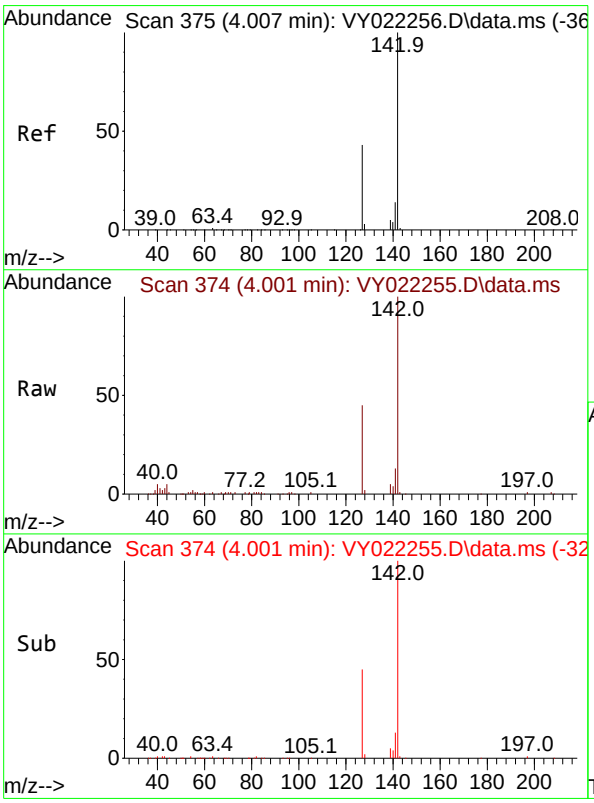
#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.187 ug/l
RT: 3.812 min Scan# 34
Delta R.T. -0.006 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion:101 Resp: 57012

Ion	Ratio	Lower	Upper
101	100		
85	47.7	38.6	58.0
151	71.9	59.7	89.5

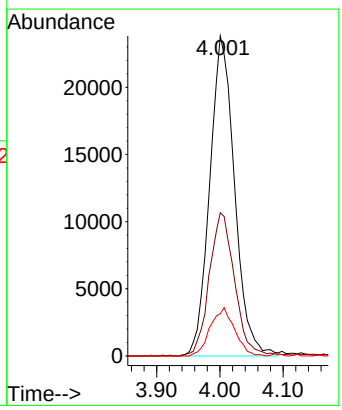


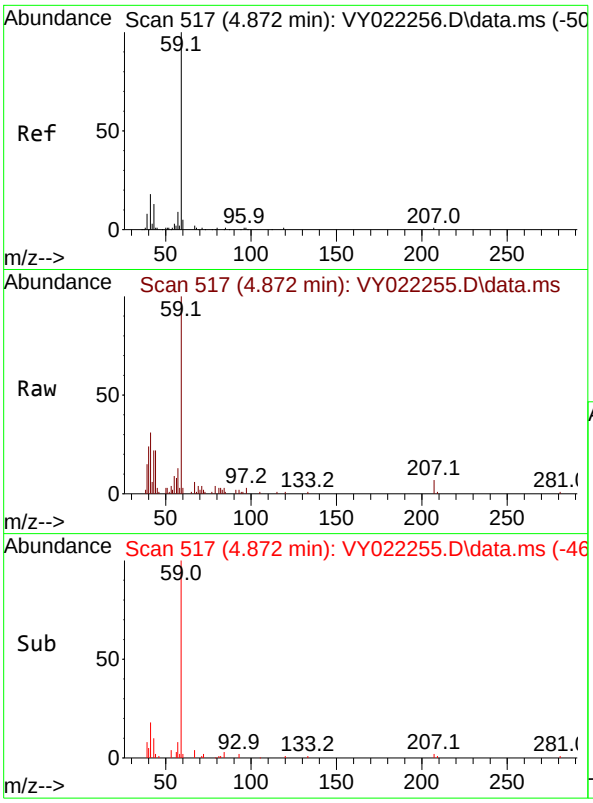


#10
Methyl Iodide
Concen: 19.891 ug/l
RT: 4.001 min Scan# 374
Delta R.T. -0.006 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion:142 Resp: 65018

Ion	Ratio	Lower	Upper
142	100		
127	45.5	35.7	53.5
141	14.8	11.1	16.7



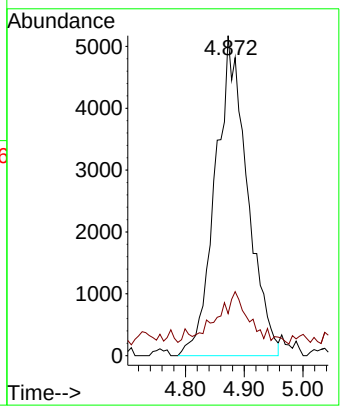


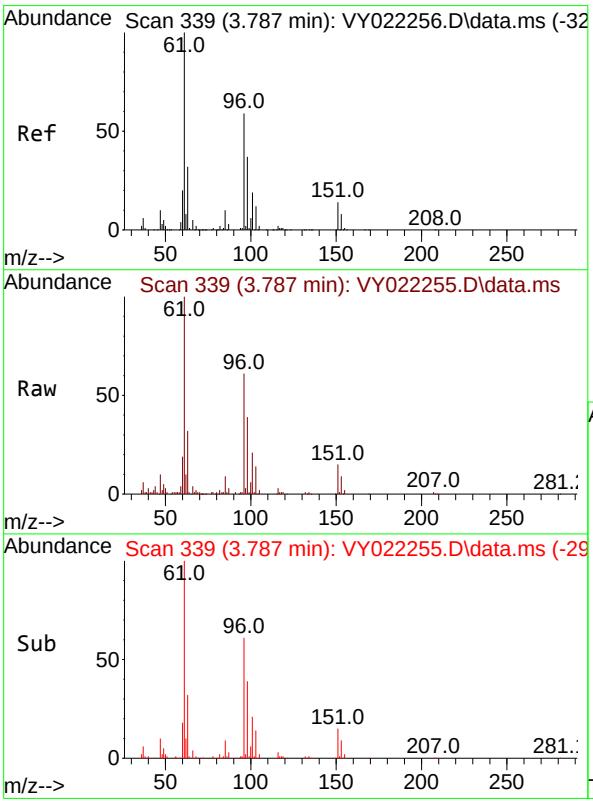
#11
Tert butyl alcohol
Concen: 89.565 ug/l
RT: 4.872 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 59 Resp: 19585

Ion	Ratio	Lower	Upper
59	100		
57	16.5	0.0	0.0#

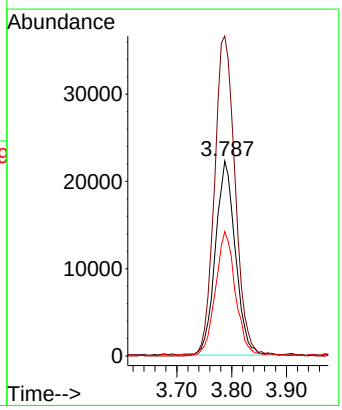


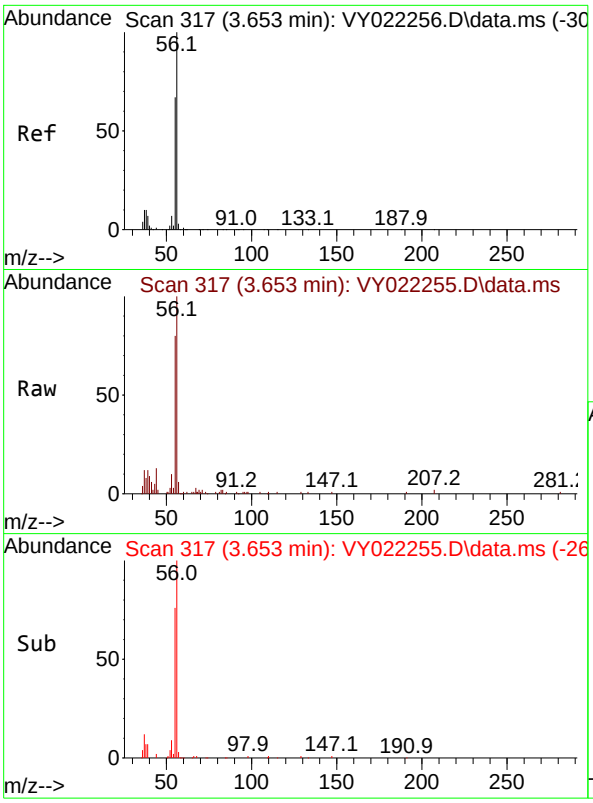


#12
1,1-Dichloroethene
Concen: 20.206 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 96 Resp: 56630

Ion	Ratio	Lower	Upper
96	100		
61	164.8	134.9	202.3
98	63.5	49.9	74.9



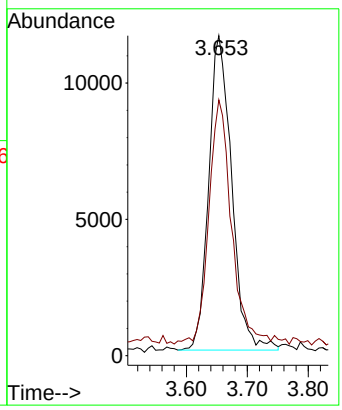


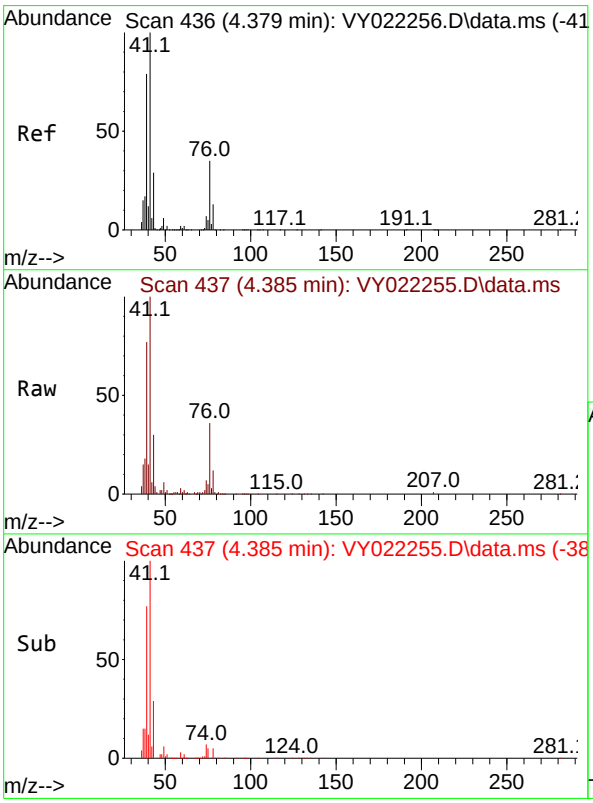
#13
Acrolein
Concen: 94.178 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 56 Resp: 30106

Ion	Ratio	Lower	Upper
56	100		
55	76.6	55.6	83.4

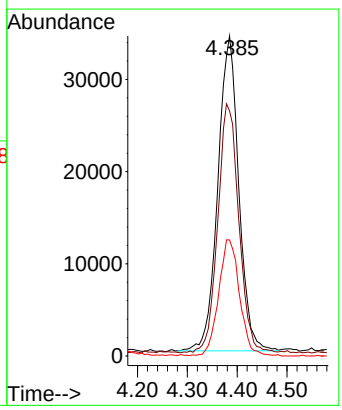


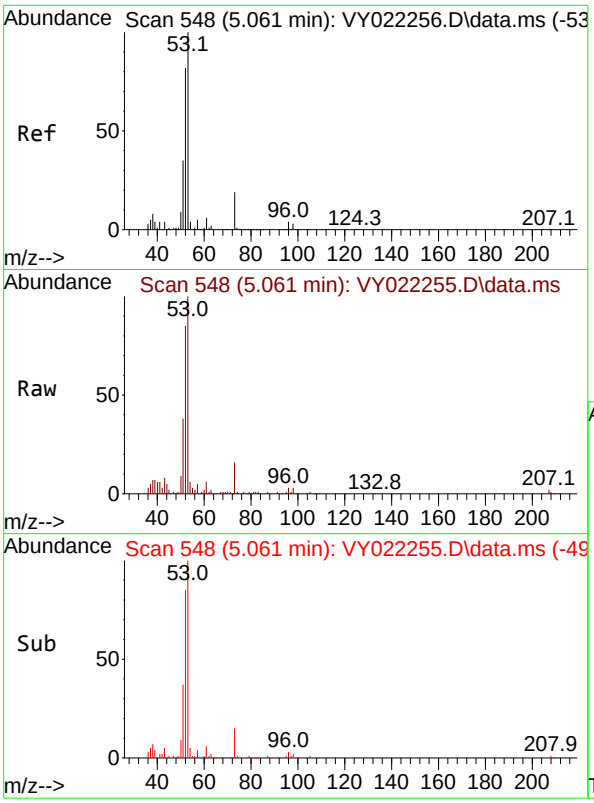


#14
Allyl chloride
Concen: 20.244 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 41 Resp: 99483

Ion	Ratio	Lower	Upper
41	100		
39	79.7	63.4	95.0
76	37.1	29.5	44.3



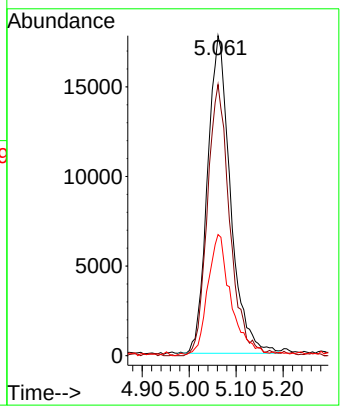


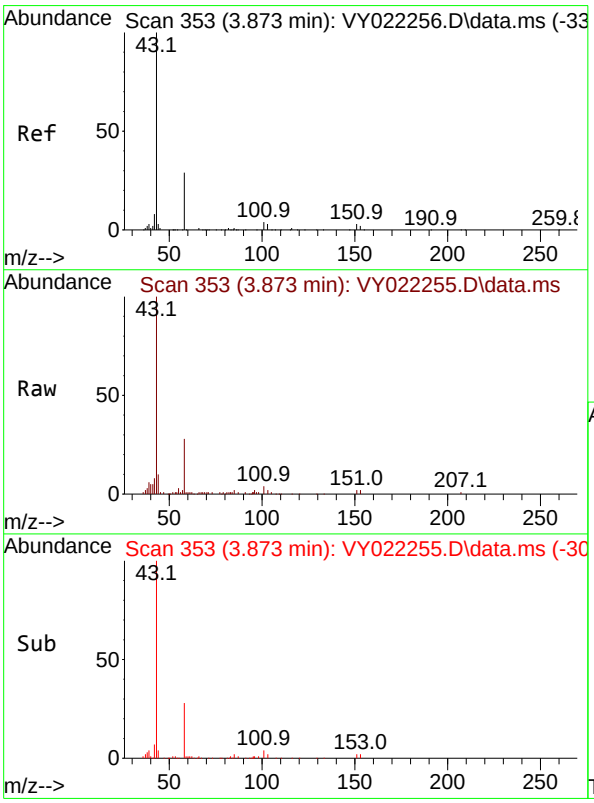
#15
Acrylonitrile
Concen: 93.456 ug/l
RT: 5.061 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 53 Resp: 60119

Ion	Ratio	Lower	Upper
53	100		
52	83.1	66.1	99.1
51	37.6	30.0	45.0

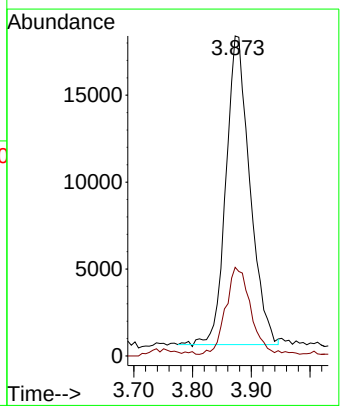


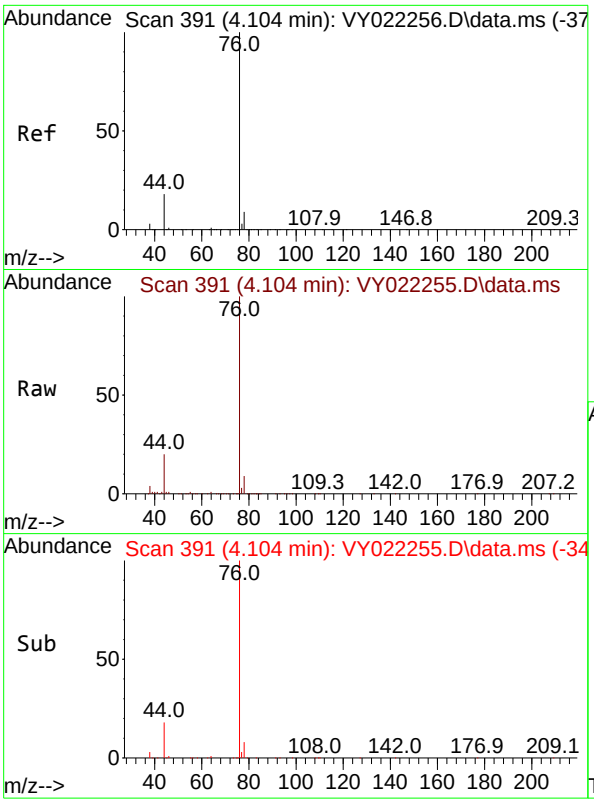


#16
Acetone
Concen: 93.491 ug/l
RT: 3.873 min Scan# 353
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 43 Resp: 50198

Ion	Ratio	Lower	Upper
43	100		
58	27.5	23.6	35.4



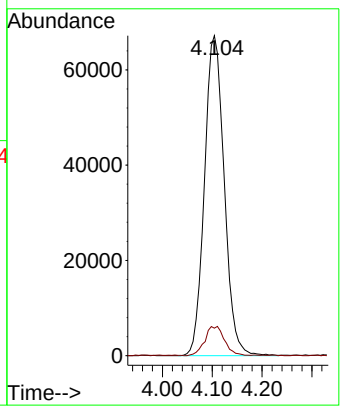


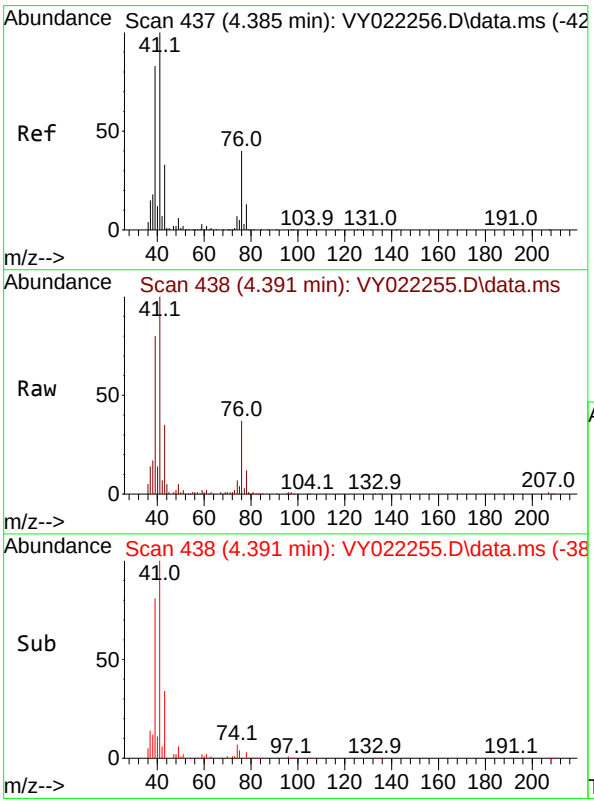
#17
Carbon Disulfide
Concen: 20.228 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 76 Resp: 184860

Ion	Ratio	Lower	Upper
76	100		
78	8.6	7.2	10.8

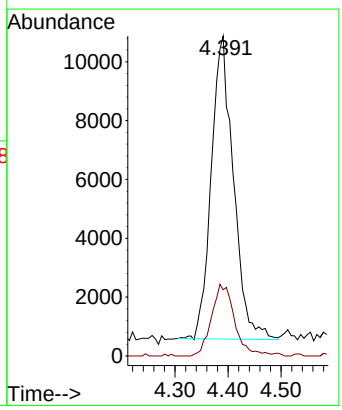


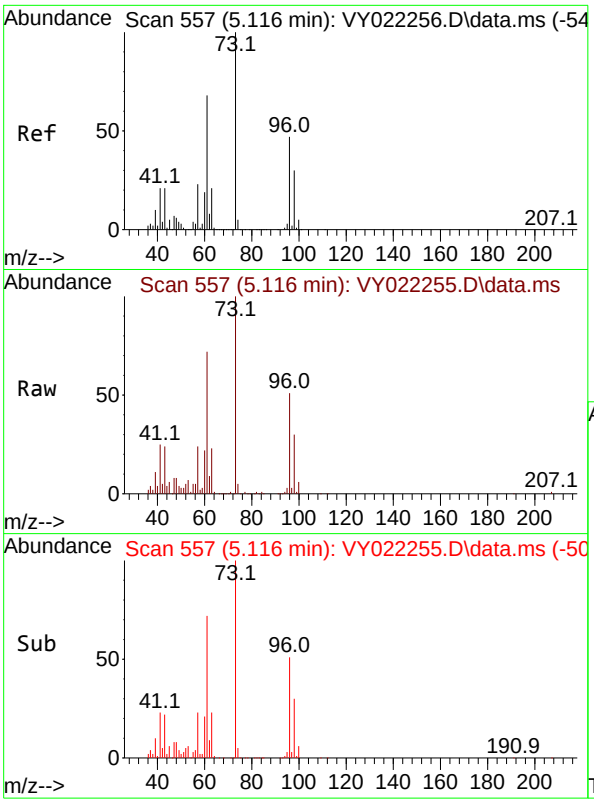


#18
Methyl Acetate
Concen: 18.344 ug/l
RT: 4.391 min Scan# 438
Delta R.T. 0.006 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 43 Resp: 29969

Ion	Ratio	Lower	Upper
43	100		
74	24.6	18.2	27.4



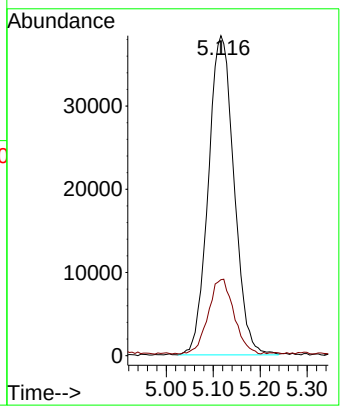


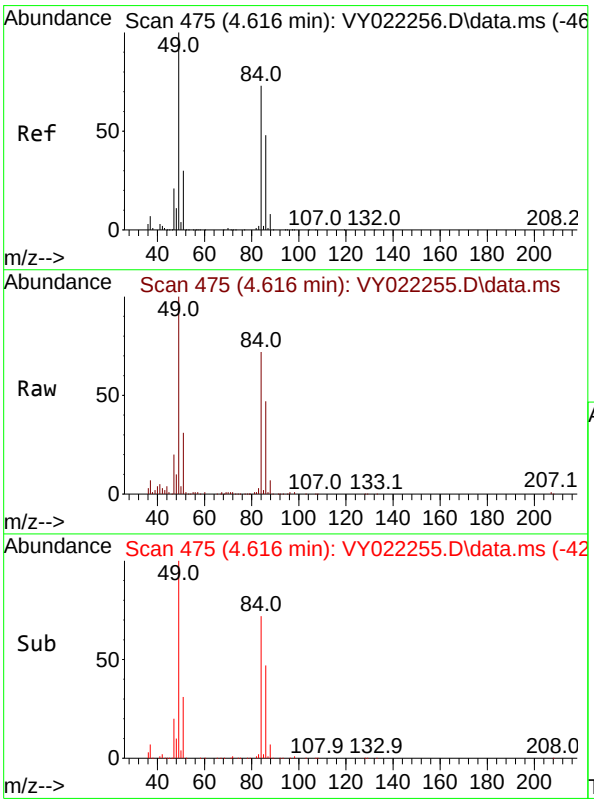
#19
Methyl tert-butyl Ether
Concen: 18.890 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 73 Resp: 145976

Ion	Ratio	Lower	Upper
73	100		
57	23.2	18.6	28.0

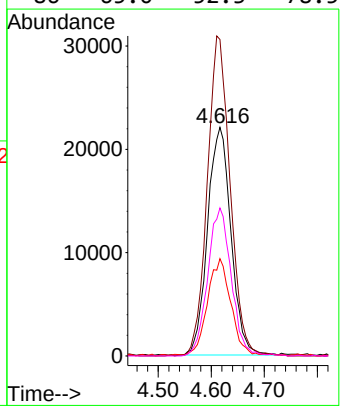


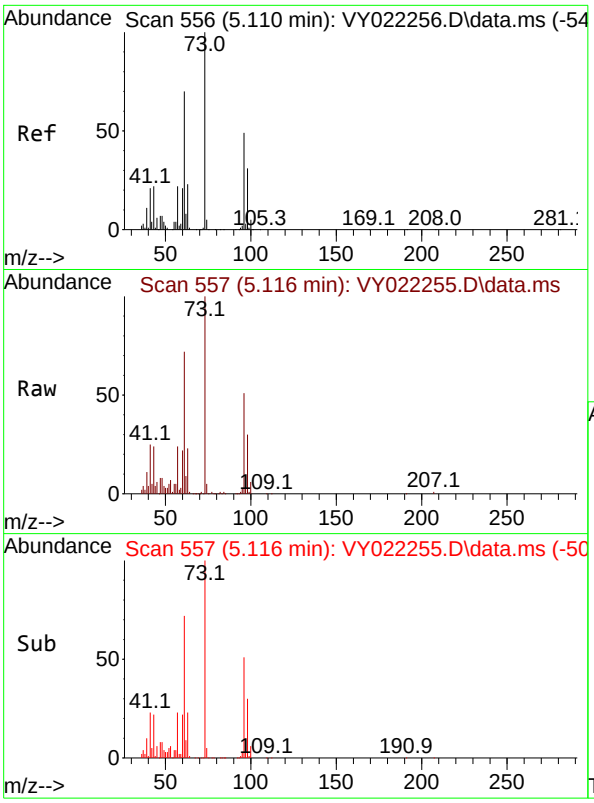


#20
Methylene Chloride
Concen: 19.510 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 84 Resp: 67687

Ion	Ratio	Lower	Upper
84	100		
49	138.7	109.6	164.4
51	42.3	32.4	48.6
86	65.0	52.3	78.5



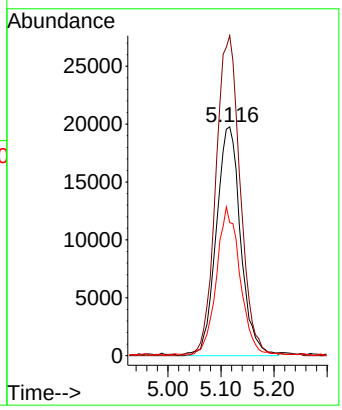


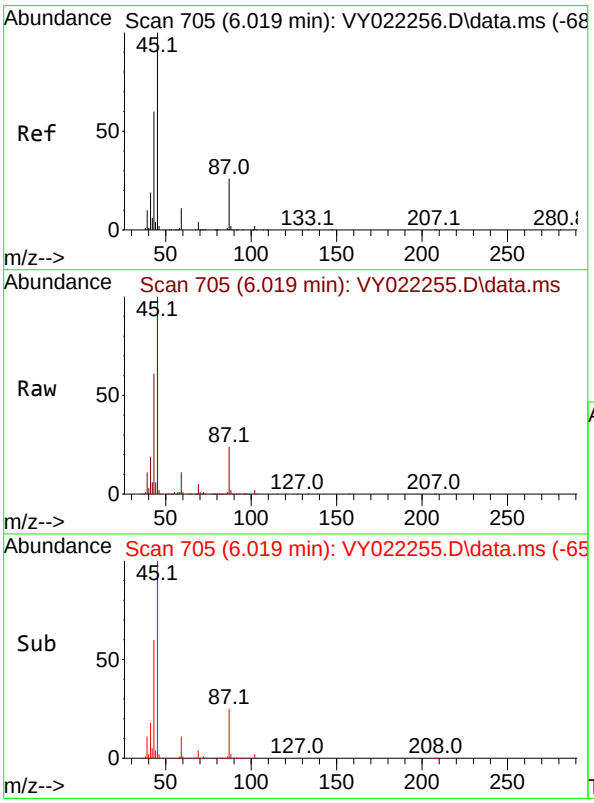
#21
trans-1,2-Dichloroethene
Concen: 20.422 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 96 Resp: 63174

Ion	Ratio	Lower	Upper
96	100		
61	139.8	113.4	170.0
98	57.5	50.9	76.3

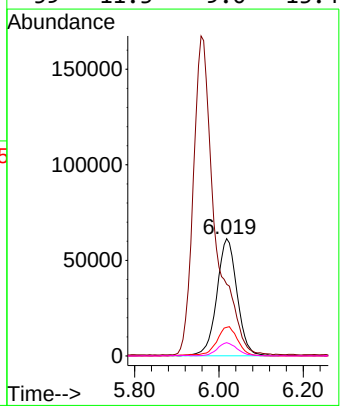


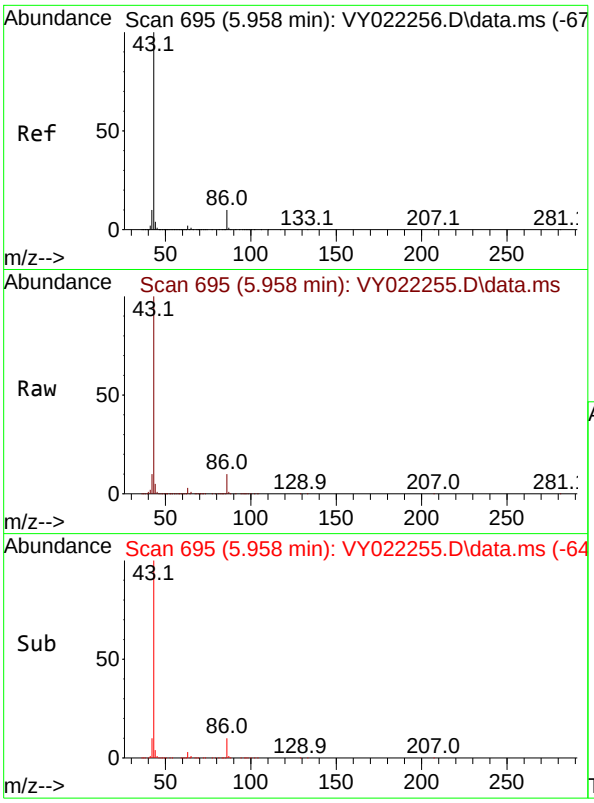


#22
Diisopropyl ether
Concen: 19.558 ug/l
RT: 6.019 min Scan# 705
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 45 Resp: 202960

Ion	Ratio	Lower	Upper
45	100		
43	59.9	48.2	72.2
87	24.5	21.4	32.0
59	11.3	9.0	13.4



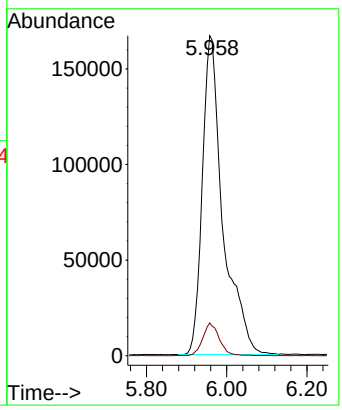


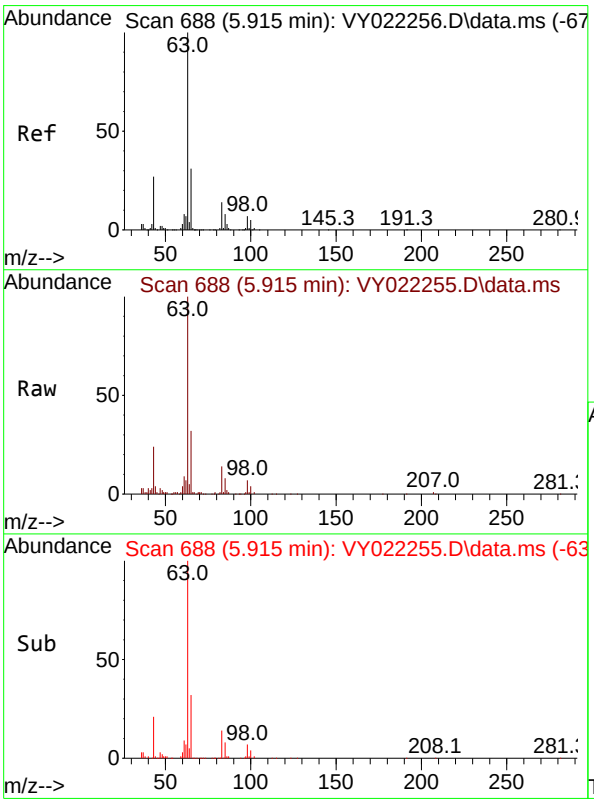
#23
Vinyl Acetate
Concen: 94.748 ug/l
RT: 5.958 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 594019

Ion	Ratio	Lower	Upper
43	100		
86	10.3	7.8	11.8

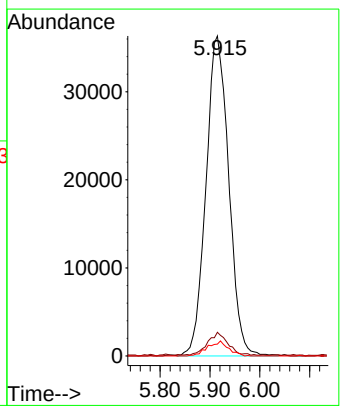


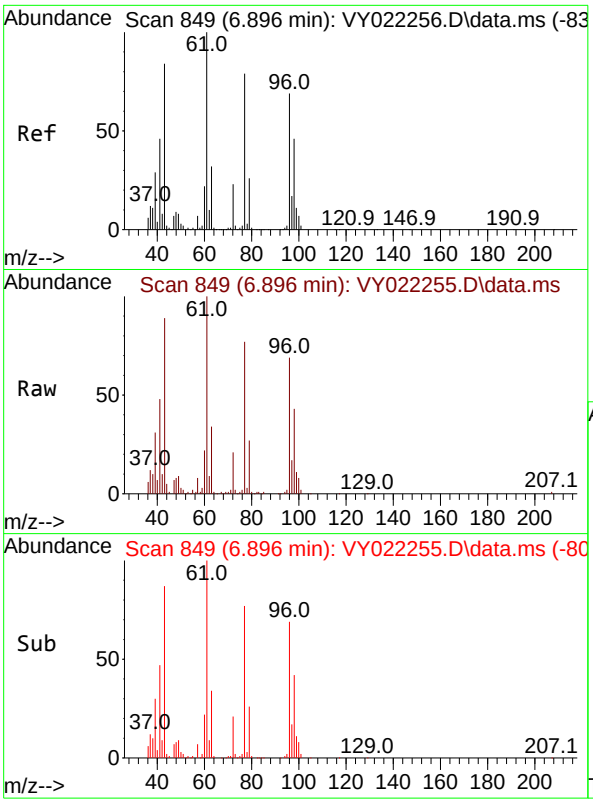


#24
1,1-Dichloroethane
Concen: 19.873 ug/l
RT: 5.915 min Scan# 688
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 63 Resp: 115217

Ion	Ratio	Lower	Upper
63	100		
98	7.0	3.5	10.5
100	3.7	2.4	7.2



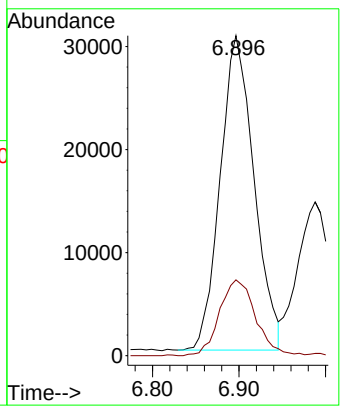


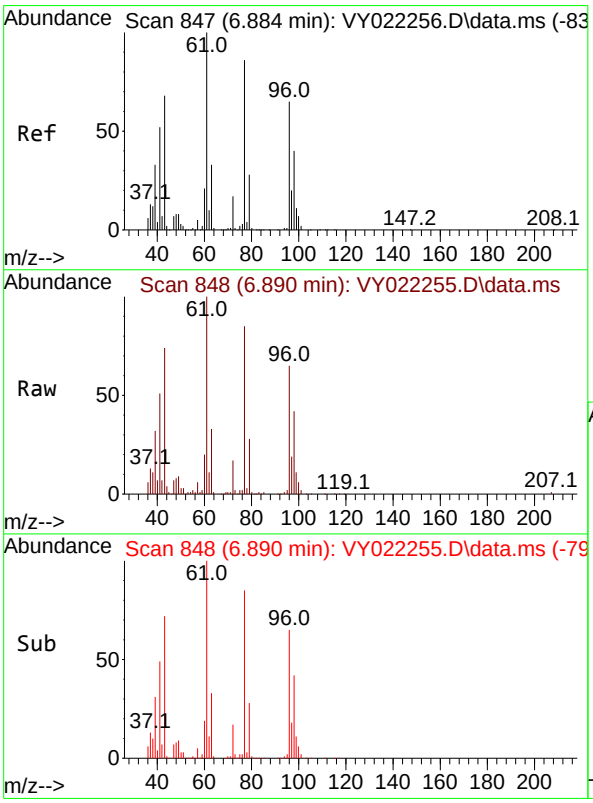
#25
2-Butanone
Concen: 92.157 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 82768

Ion	Ratio	Lower	Upper
43	100		
72	24.1	22.1	33.1

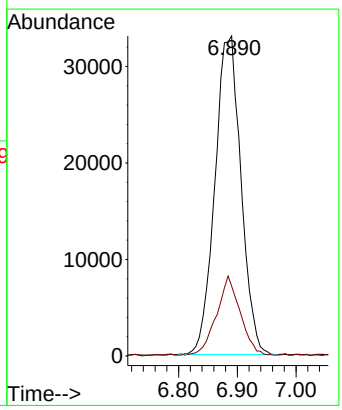


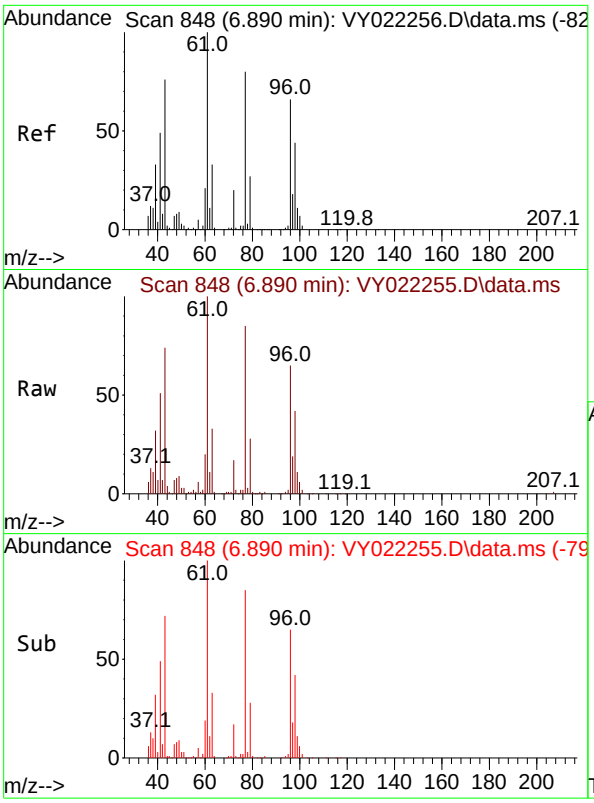


#26
2,2-Dichloropropane
Concen: 19.727 ug/l
RT: 6.890 min Scan# 848
Delta R.T. 0.006 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 77 Resp: 101725

Ion	Ratio	Lower	Upper
77	100		
97	22.6	11.2	33.5



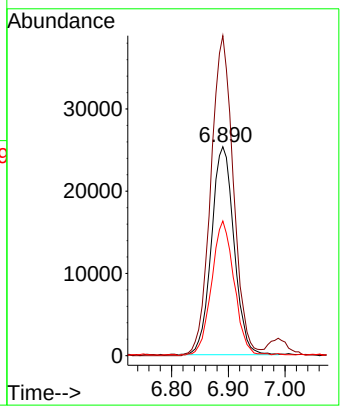


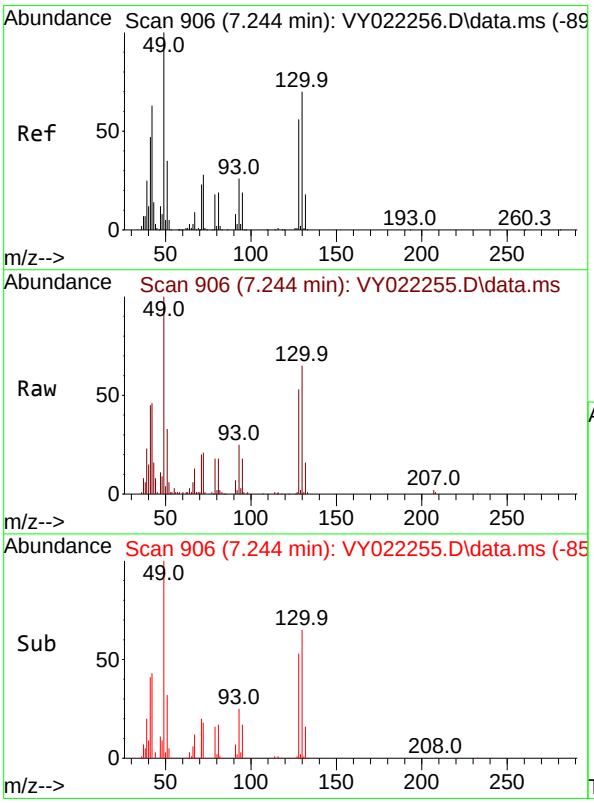
#27
cis-1,2-Dichloroethene
Concen: 19.611 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 96 Resp: 70008

Ion	Ratio	Lower	Upper
96	100		
61	153.9	0.0	302.6
98	64.1	0.0	128.8

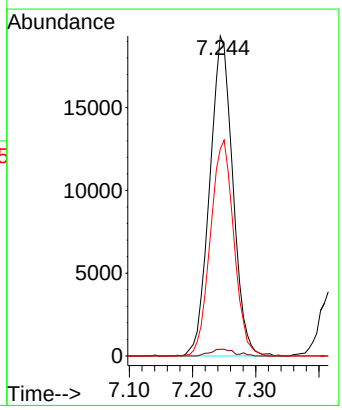


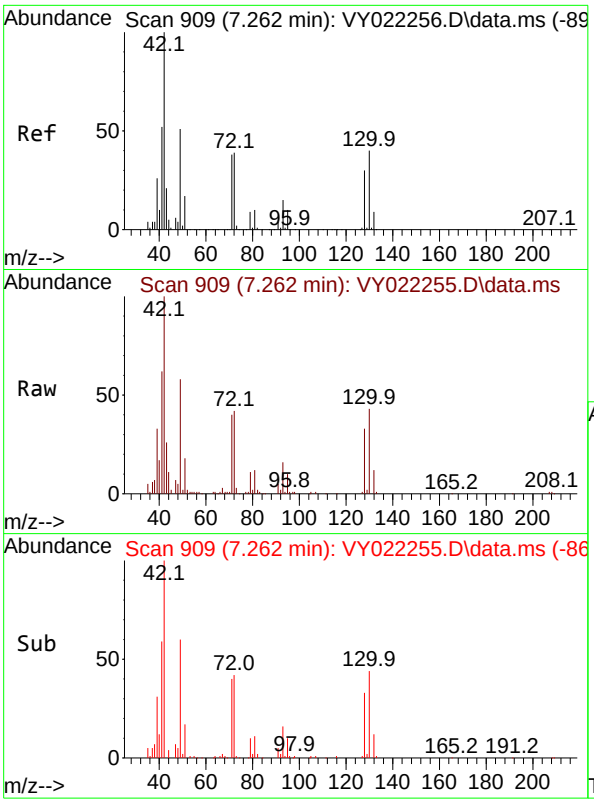


#28
Bromochloromethane
Concen: 19.787 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 49 Resp: 48933

Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	3.6
130	68.4	54.7	82.1



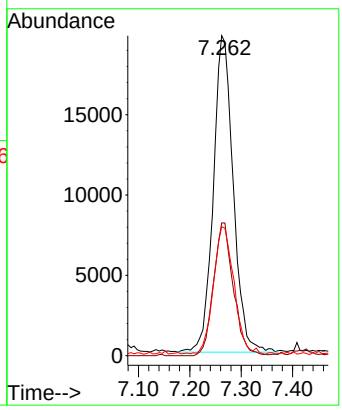


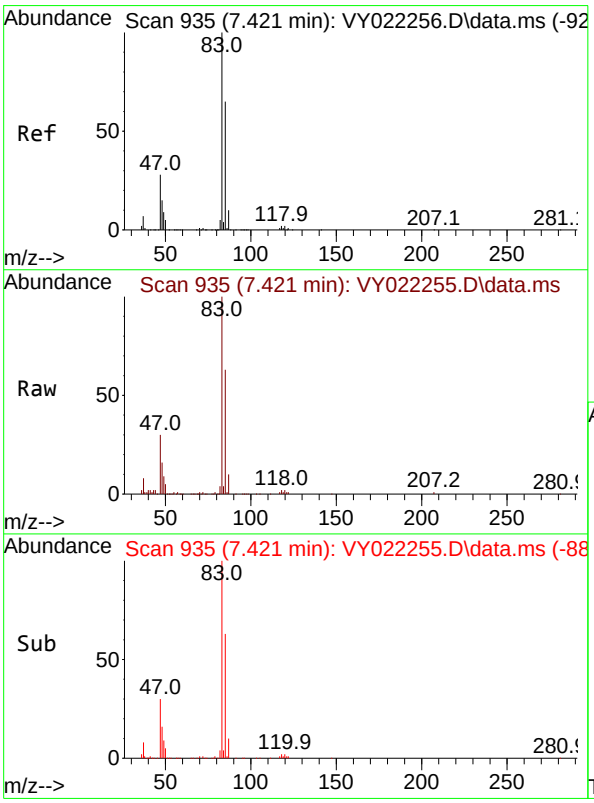
#29
Tetrahydrofuran
Concen: 92.122 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 42 Resp: 53229

Ion	Ratio	Lower	Upper
42	100		
72	41.6	33.8	50.6
71	41.5	31.5	47.3

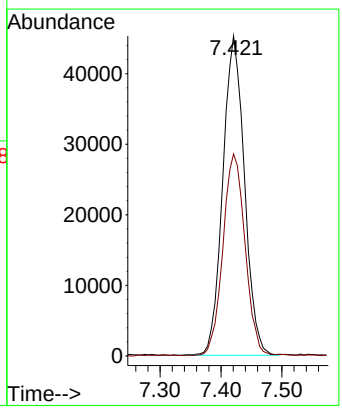


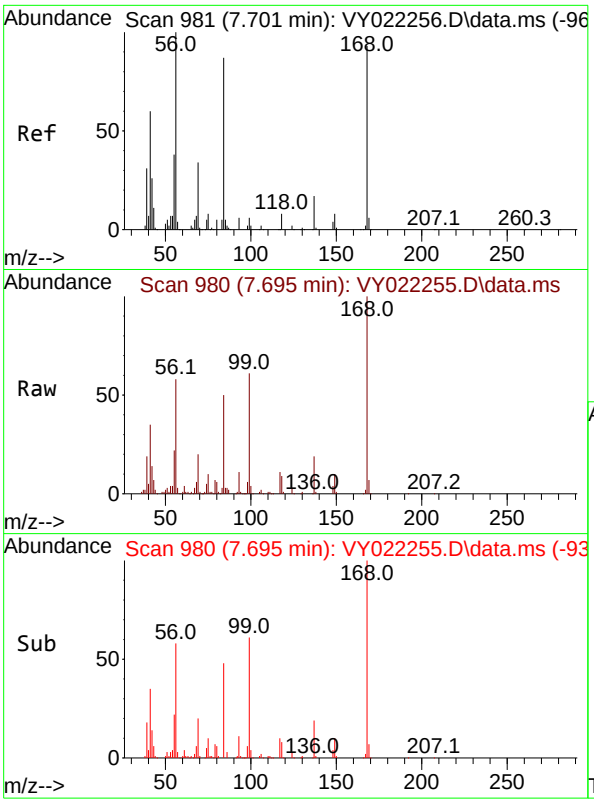


#30
Chloroform
Concen: 20.107 ug/l
RT: 7.421 min Scan# 935
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 83 Resp: 111815

Ion	Ratio	Lower	Upper
83	100		
85	63.1	51.8	77.8



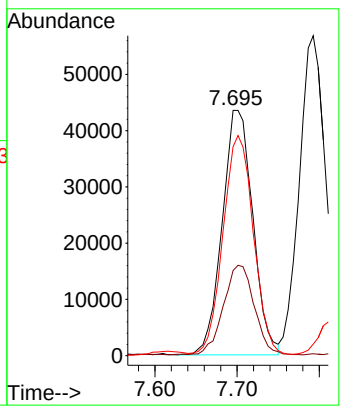


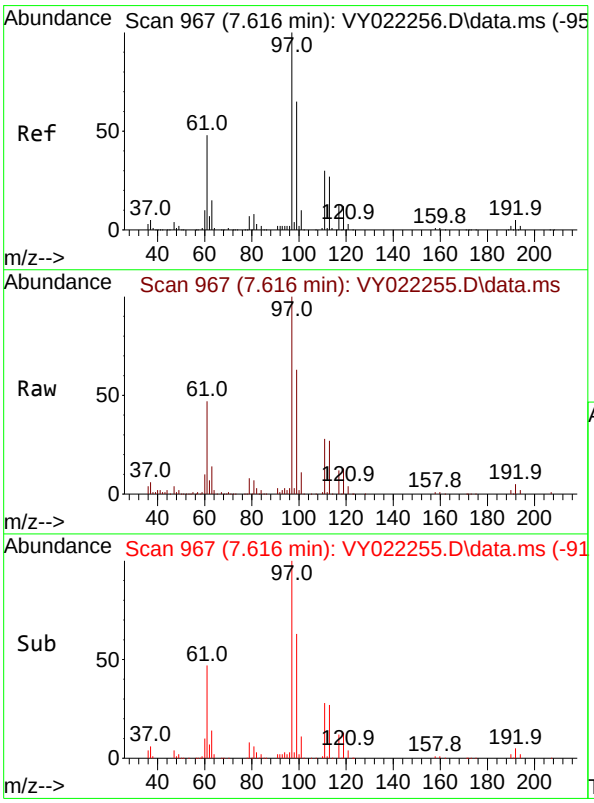
#31
Cyclohexane
Concen: 19.486 ug/l
RT: 7.695 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 56 Resp: 112876

Ion	Ratio	Lower	Upper
56	100		
69	34.2	27.4	41.2
84	84.0	70.0	105.0

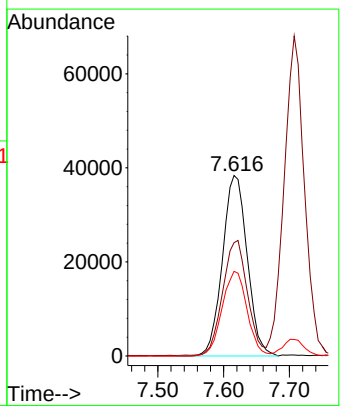


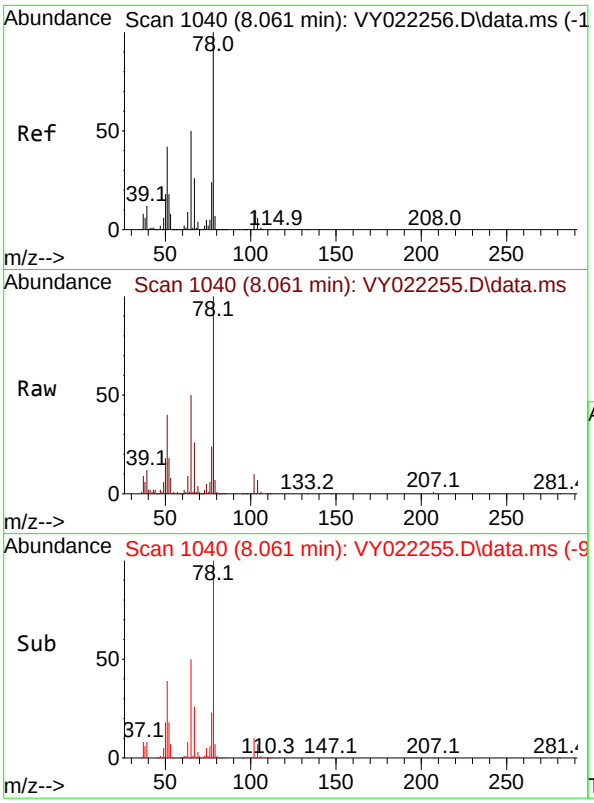


#32
1,1,1-Trichloroethane
Concen: 19.721 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 97 Resp: 100618

Ion	Ratio	Lower	Upper
97	100		
99	64.5	51.4	77.0
61	47.2	38.1	57.1



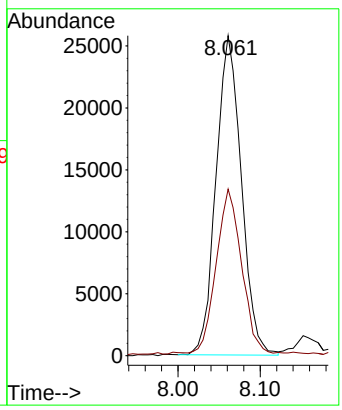


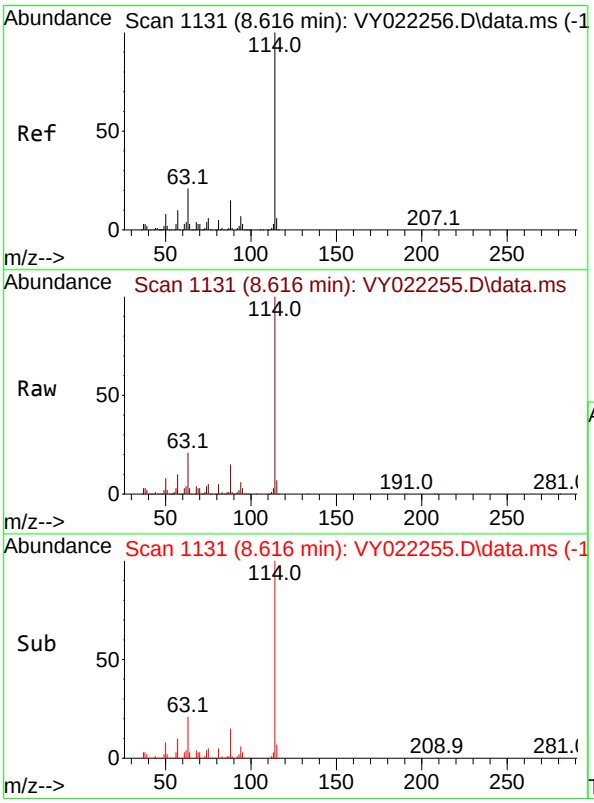
#33
1,2-Dichloroethane-d4
Concen: 19.284 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 65 Resp: 55221

Ion	Ratio	Lower	Upper
65	100		
67	50.9	0.0	104.6

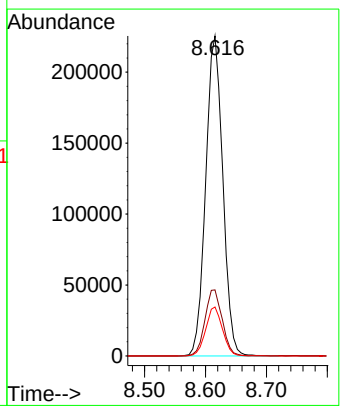


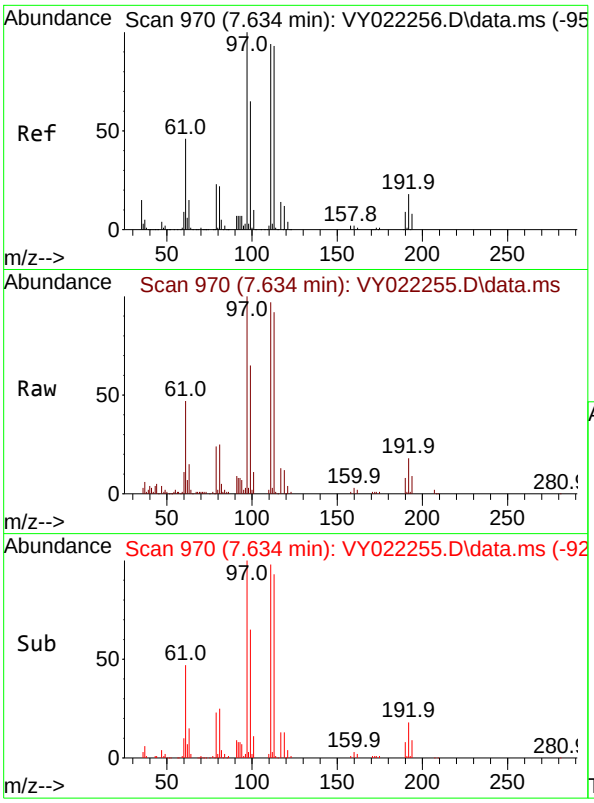


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion:114 Resp: 439816

Ion	Ratio	Lower	Upper
114	100		
63	20.6	0.0	41.0
88	15.3	0.0	29.4



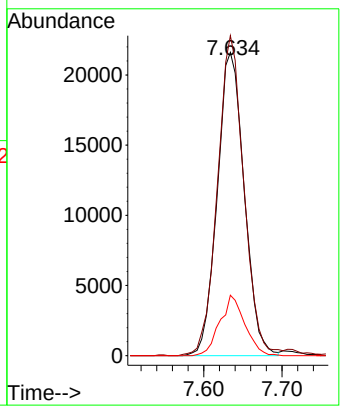


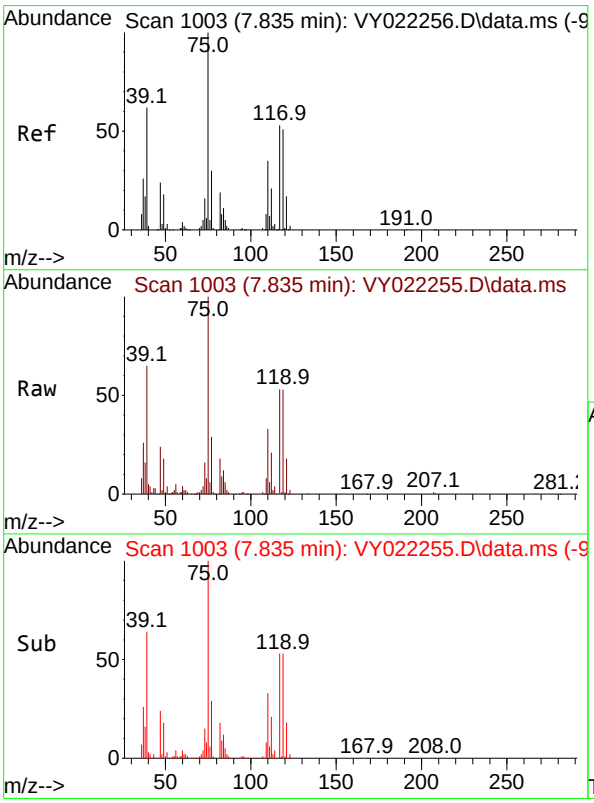
#35
Dibromofluoromethane
Concen: 19.683 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion:113 Resp: 51670

Ion	Ratio	Lower	Upper
113	100		
111	103.2	82.6	123.8
192	18.5	15.2	22.8

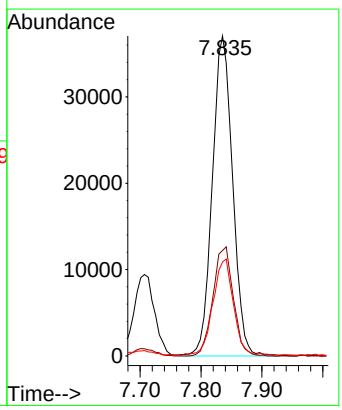


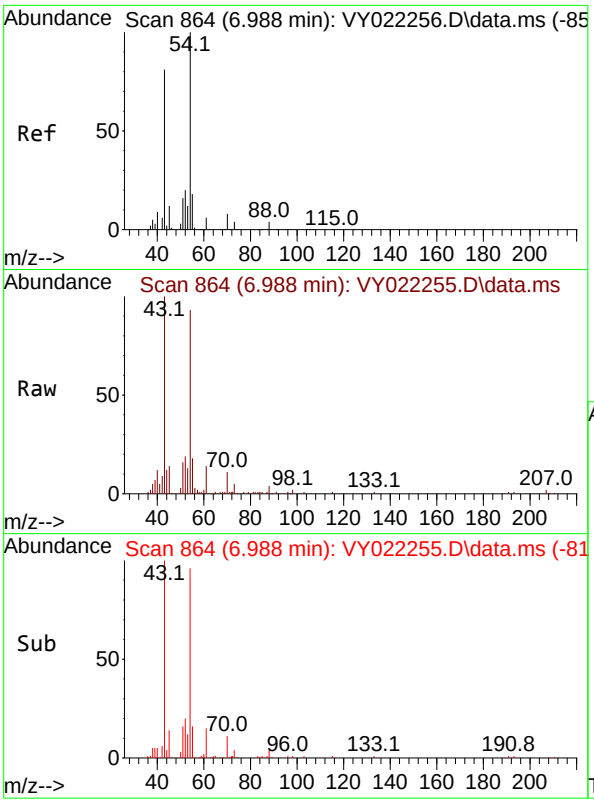


#36
1,1-Dichloropropene
Concen: 19.841 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 75 Resp: 85789

Ion	Ratio	Lower	Upper
75	100		
110	34.2	16.6	49.8
77	30.2	24.6	37.0



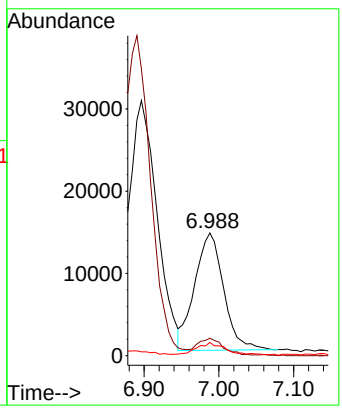


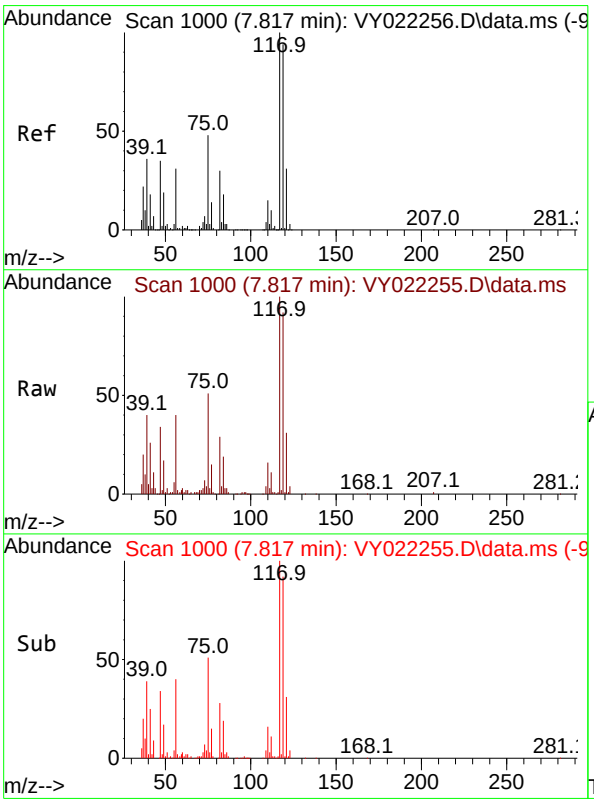
#37
Ethyl Acetate
Concen: 18.497 ug/l
RT: 6.988 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 38482

Ion	Ratio	Lower	Upper
43	100		
61	12.6	10.2	15.2
70	9.8	7.6	11.4

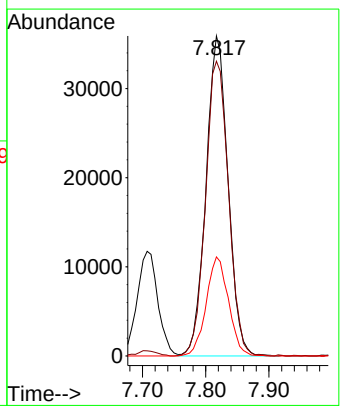


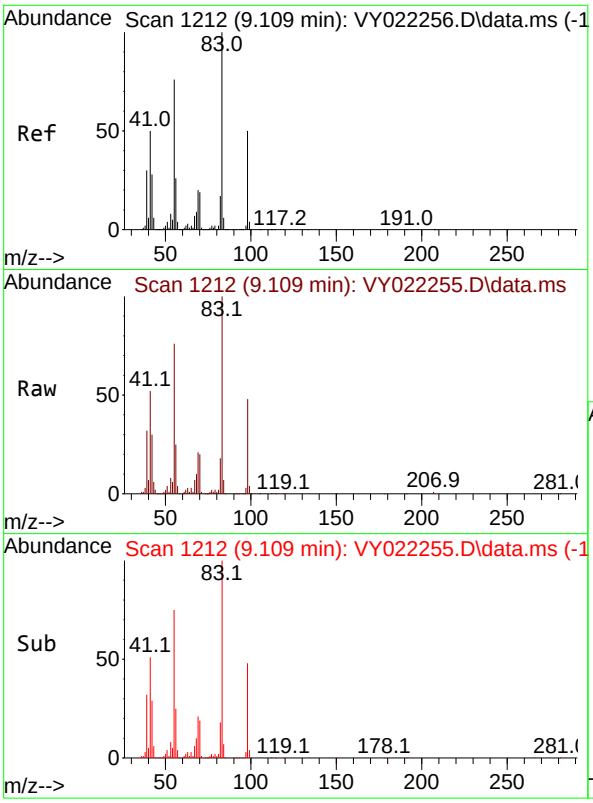


#38
Carbon Tetrachloride
Concen: 19.410 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion:117 Resp: 86871

Ion	Ratio	Lower	Upper
117	100		
119	91.9	75.3	112.9
121	31.0	24.7	37.1



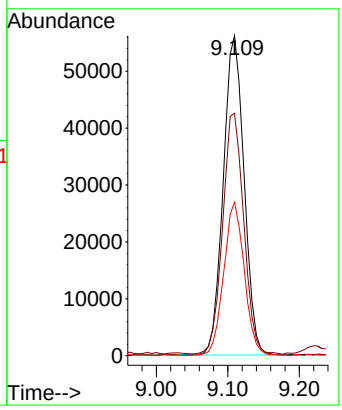


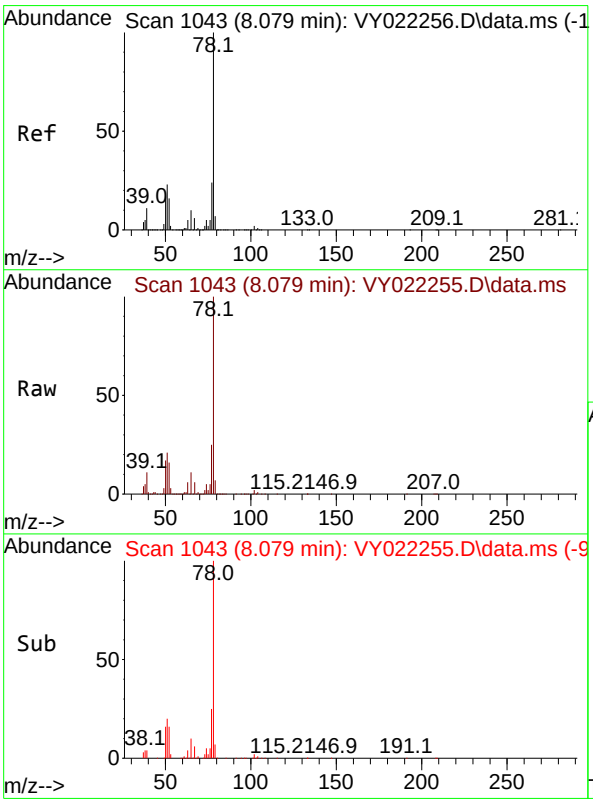
#39
Methylcyclohexane
Concen: 19.540 ug/l
RT: 9.109 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 83 Resp: 113511

Ion	Ratio	Lower	Upper
83	100		
55	75.2	60.6	90.8
98	47.9	40.0	60.0

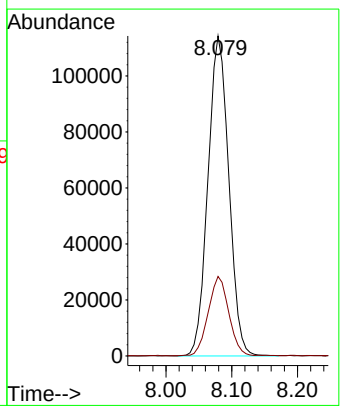


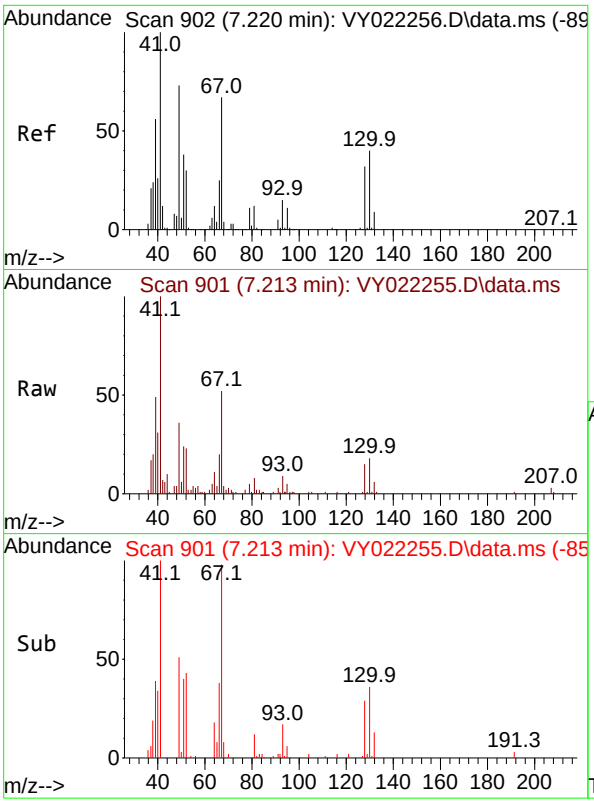


#40
Benzene
Concen: 19.700 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 78 Resp: 252507

Ion	Ratio	Lower	Upper
78	100		
77	24.8	18.9	28.3



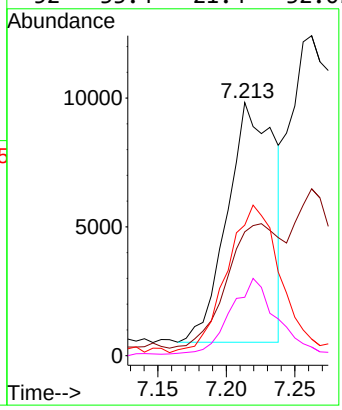


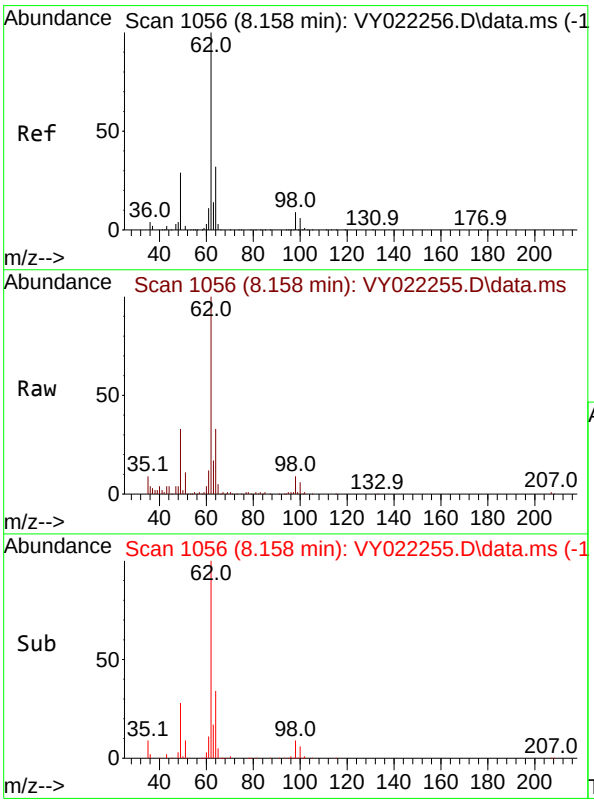
#41
Methacrylonitrile
Concen: 14.619 ug/l
RT: 7.213 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 41 Resp: 22254

Ion	Ratio	Lower	Upper
41	100		
39	62.0	39.1	58.7#
67	71.2	47.1	70.7#
52	33.4	21.4	32.0#

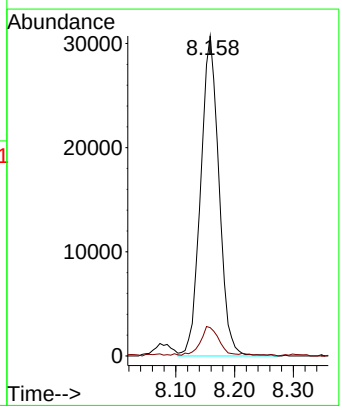


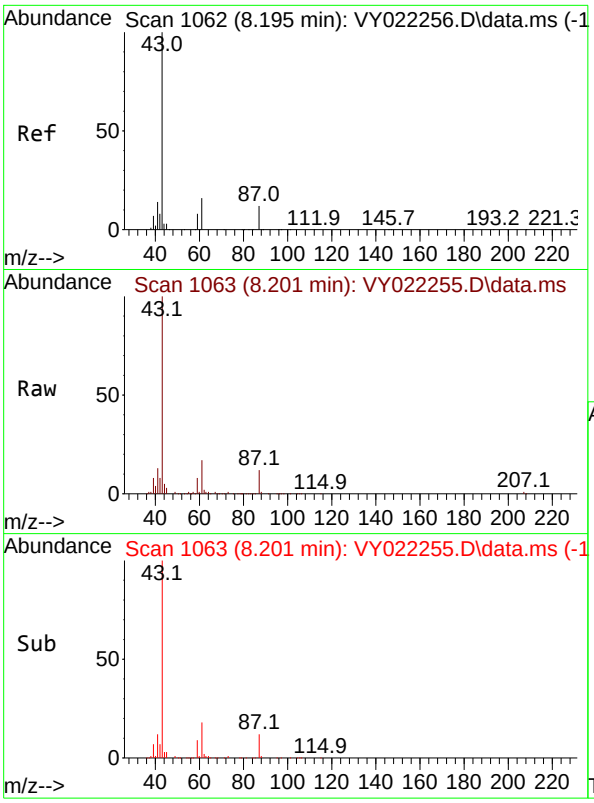


#42
1,2-Dichloroethane
Concen: 19.192 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 62 Resp: 66525

Ion	Ratio	Lower	Upper
62	100		
98	8.8	0.0	18.4



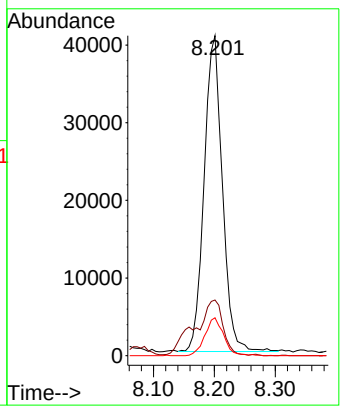


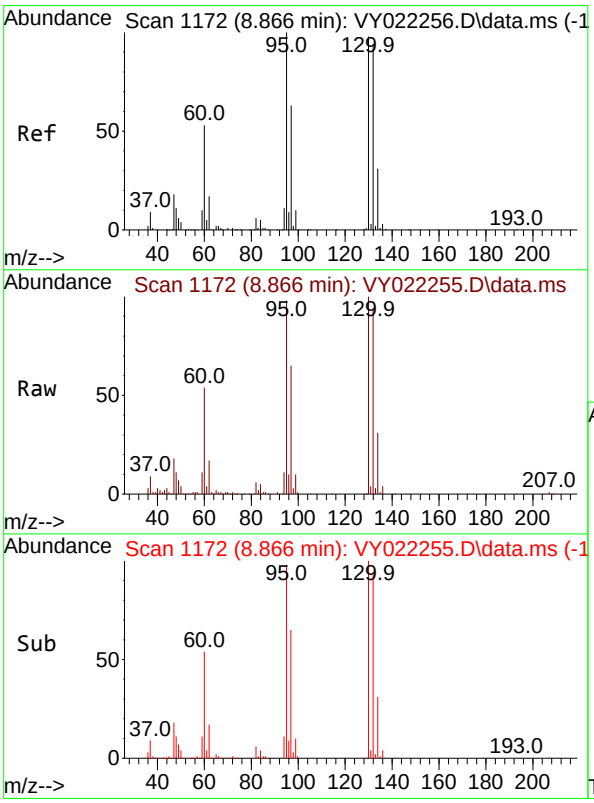
#43
Isopropyl Acetate
Concen: 18.631 ug/l
RT: 8.201 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 84532

Ion	Ratio	Lower	Upper
43	100		
61	17.1	15.1	22.7
87	12.3	9.7	14.5

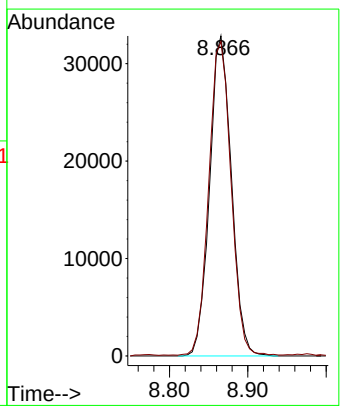


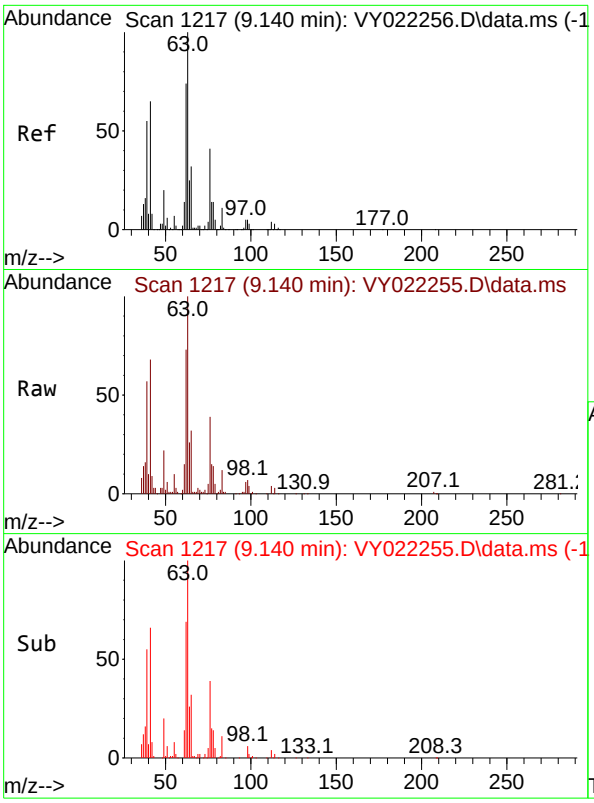


#44
Trichloroethene
Concen: 19.904 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion:130 Resp: 63438

Ion	Ratio	Lower	Upper
130	100		
95	98.0	0.0	204.8



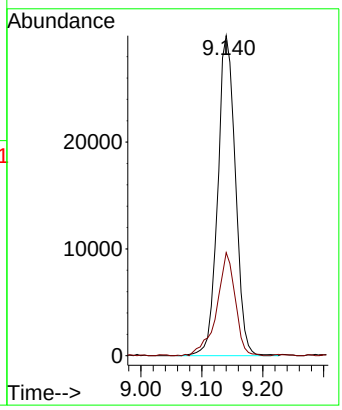


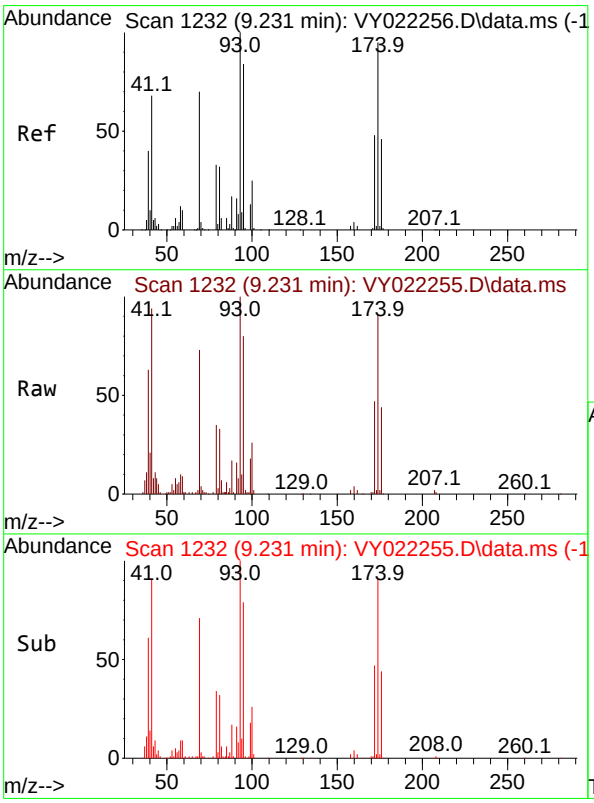
#45
1,2-Dichloropropane
Concen: 19.557 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 63 Resp: 60438

Ion	Ratio	Lower	Upper
63	100		
65	32.1	25.7	38.5

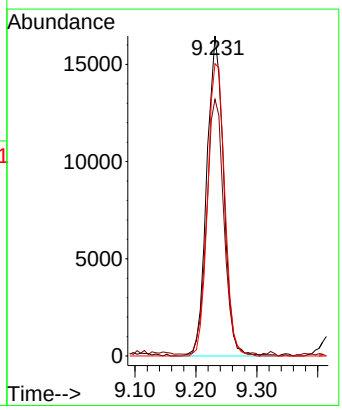


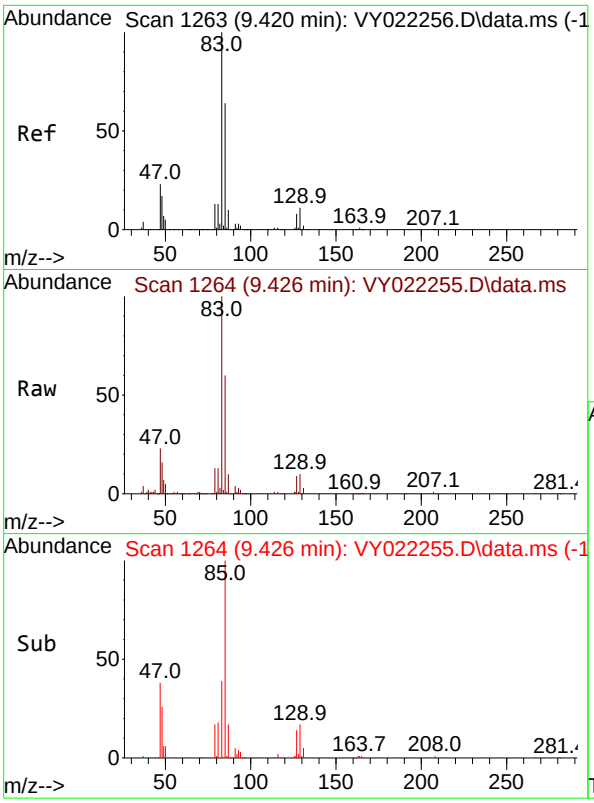


#46
Dibromomethane
Concen: 19.050 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 93 Resp: 31752

Ion	Ratio	Lower	Upper
93	100		
95	82.8	65.2	97.8
174	92.4	74.3	111.5



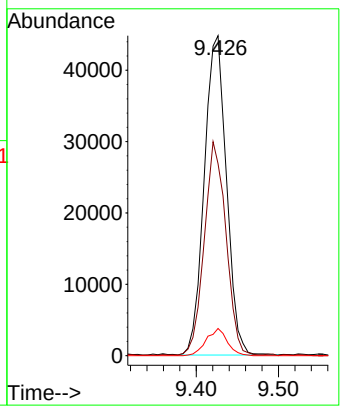


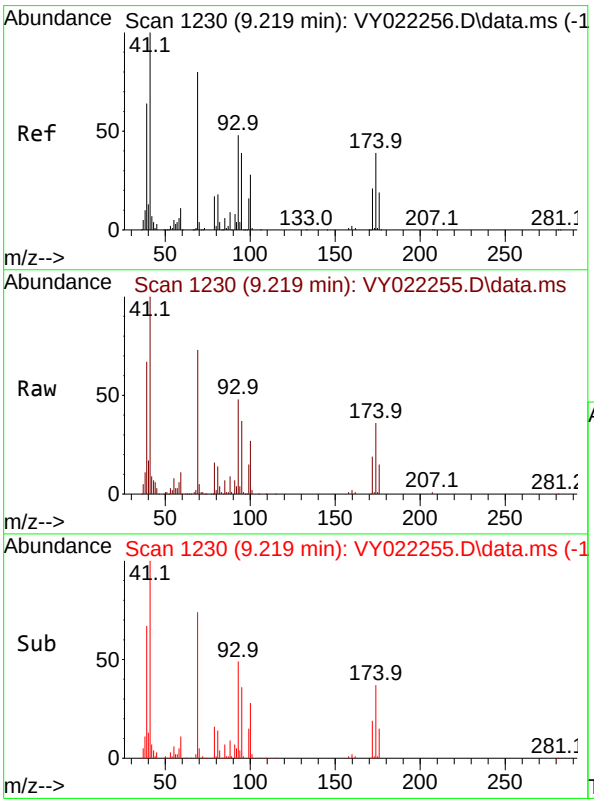
#47
Bromodichloromethane
Concen: 19.385 ug/l
RT: 9.426 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 83 Resp: 83823

Ion	Ratio	Lower	Upper
83	100		
85	60.2	51.1	76.7
127	8.5	6.6	10.0

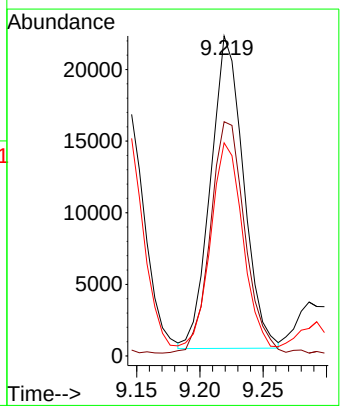


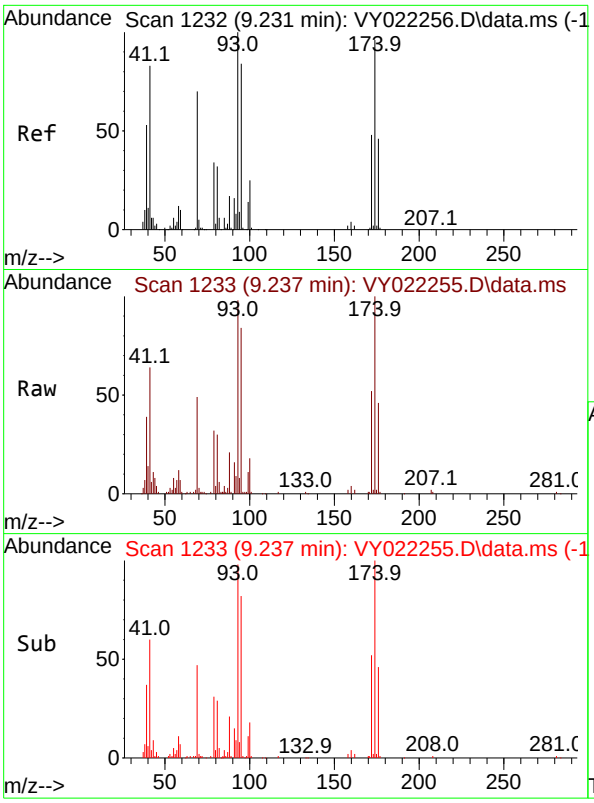


#48
Methyl methacrylate
Concen: 18.563 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 41 Resp: 39387

Ion	Ratio	Lower	Upper
41	100		
69	77.5	63.5	95.3
39	63.4	50.8	76.2



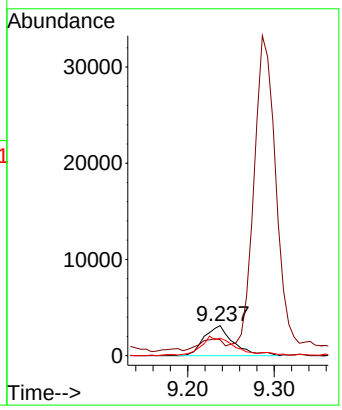


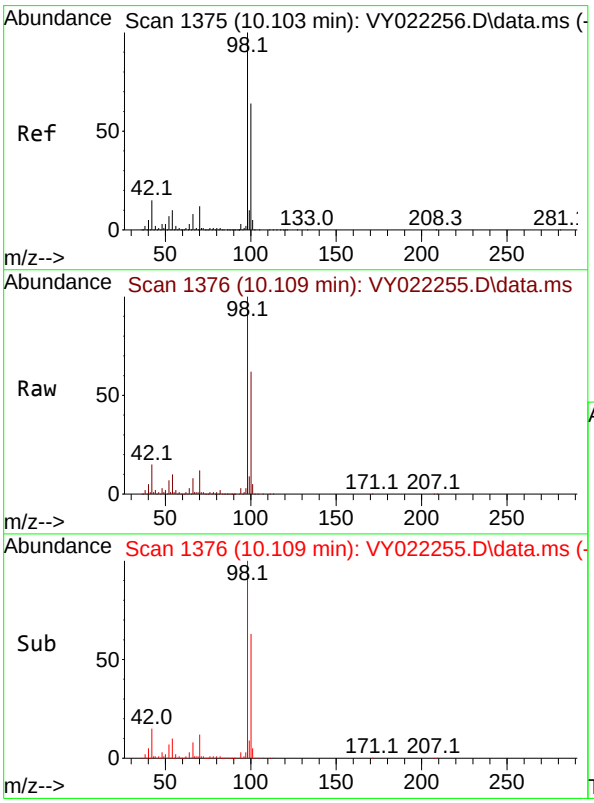
#49
1,4-Dioxane
Concen: 388.323 ug/l
RT: 9.237 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 88 Resp: 7312

Ion	Ratio	Lower	Upper
88	100		
43	31.6	28.5	42.7
58	71.1	61.4	92.2

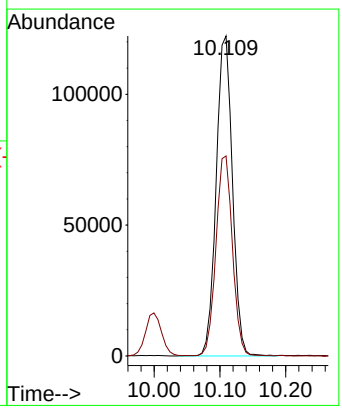


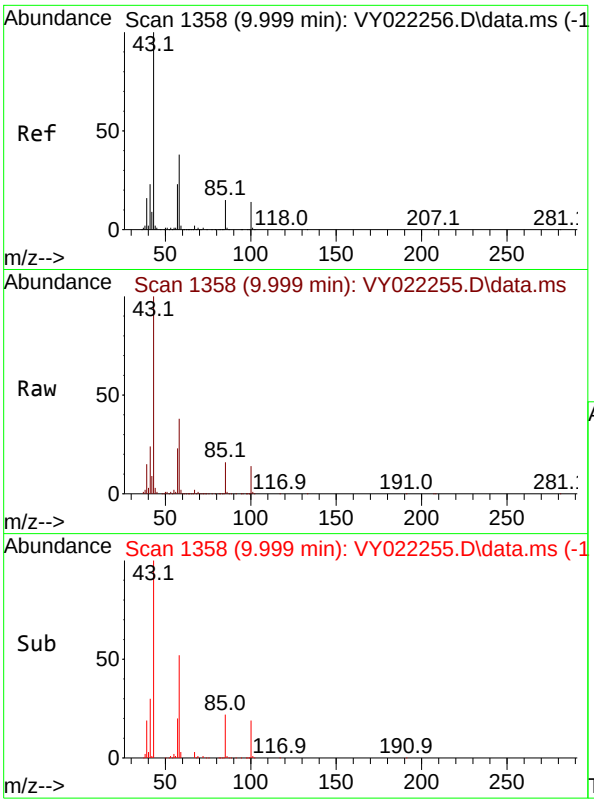


#50
Toluene-d8
Concen: 19.552 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 98 Resp: 210206

Ion	Ratio	Lower	Upper
98	100		
100	63.4	51.8	77.8



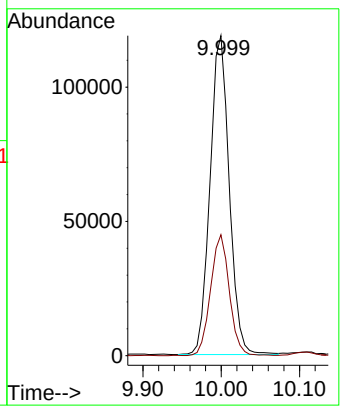


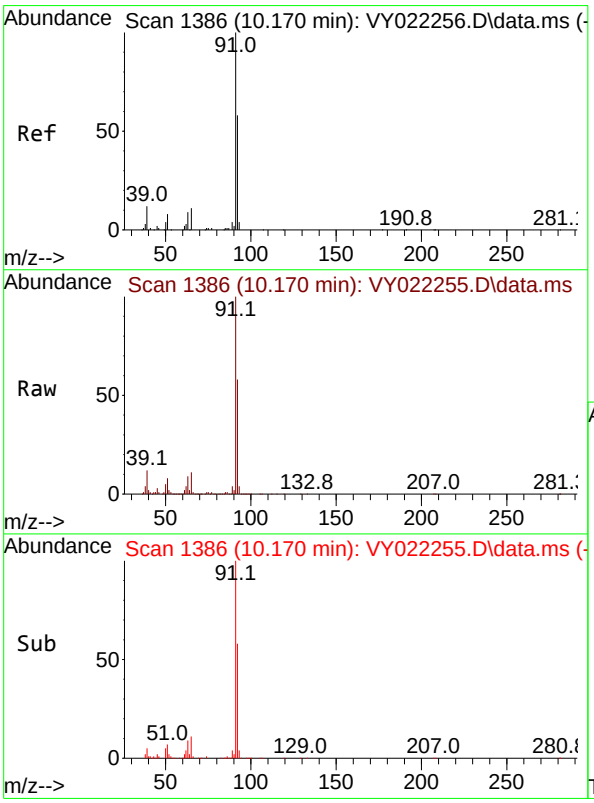
#51
4-Methyl-2-Pentanone
Concen: 90.940 ug/l
RT: 9.999 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 202454

Ion	Ratio	Lower	Upper
43	100		
58	37.2	29.4	44.2

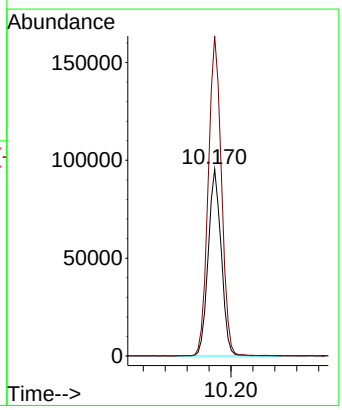


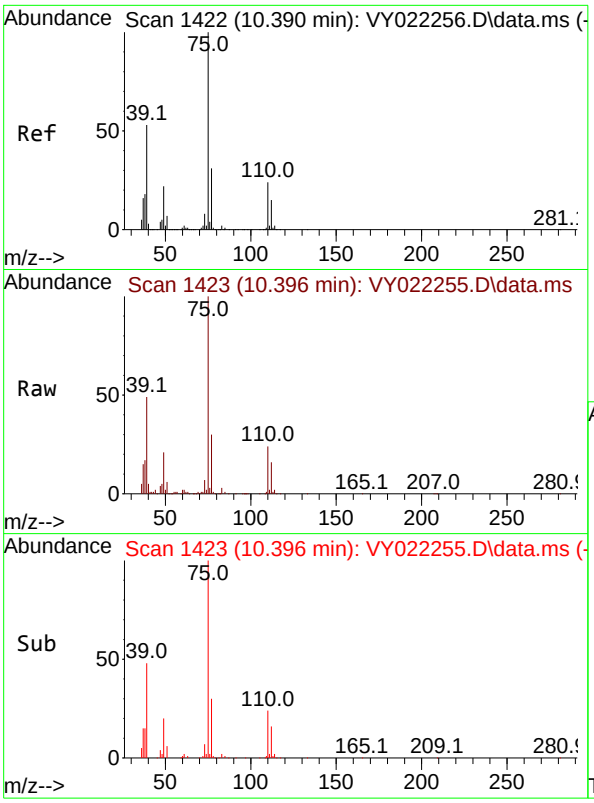


#52
Toluene
Concen: 19.281 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 92 Resp: 156498

Ion	Ratio	Lower	Upper
92	100		
91	173.5	139.1	208.7



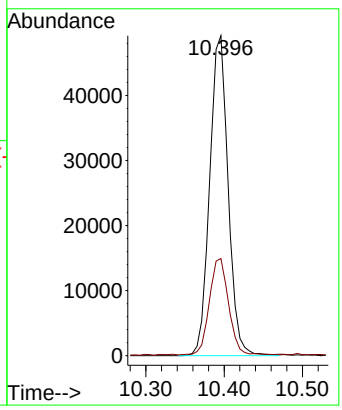


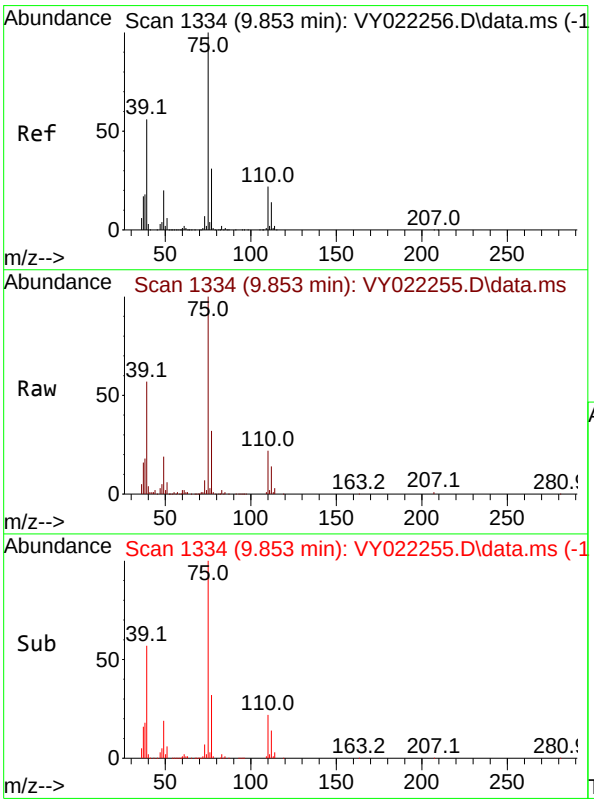
#53
t-1,3-Dichloropropene
Concen: 19.056 ug/l
RT: 10.396 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 75 Resp: 80413

Ion	Ratio	Lower	Upper
75	100		
77	30.1	25.0	37.6

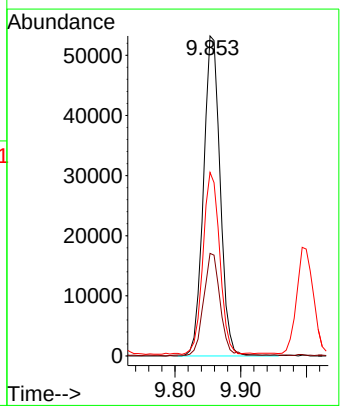


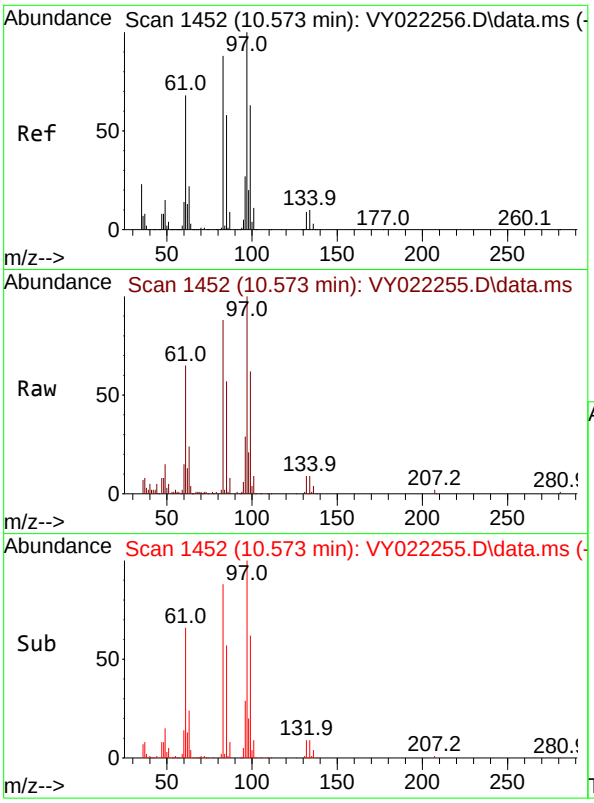


#54
cis-1,3-Dichloropropene
Concen: 19.458 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 75 Resp: 94074

Ion	Ratio	Lower	Upper
75	100		
77	31.8	25.1	37.7
39	56.6	44.5	66.7



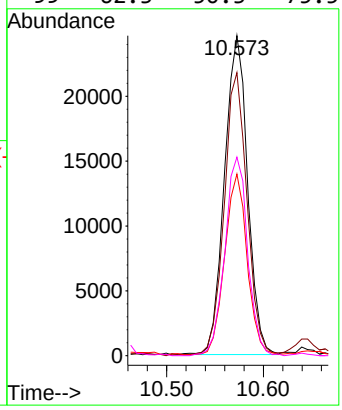


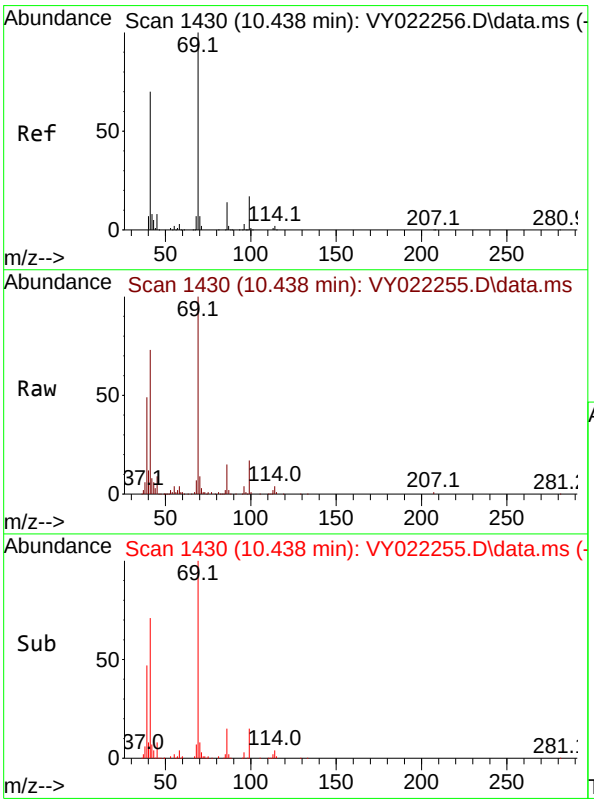
#55
1,1,2-Trichloroethane
Concen: 19.149 ug/l
RT: 10.573 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 97 Resp: 40872

Ion	Ratio	Lower	Upper
97	100		
83	88.4	70.3	105.5
85	56.5	46.2	69.4
99	62.3	50.3	75.5

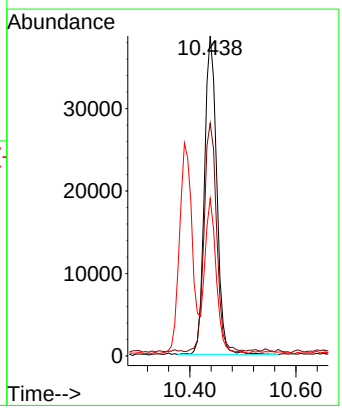


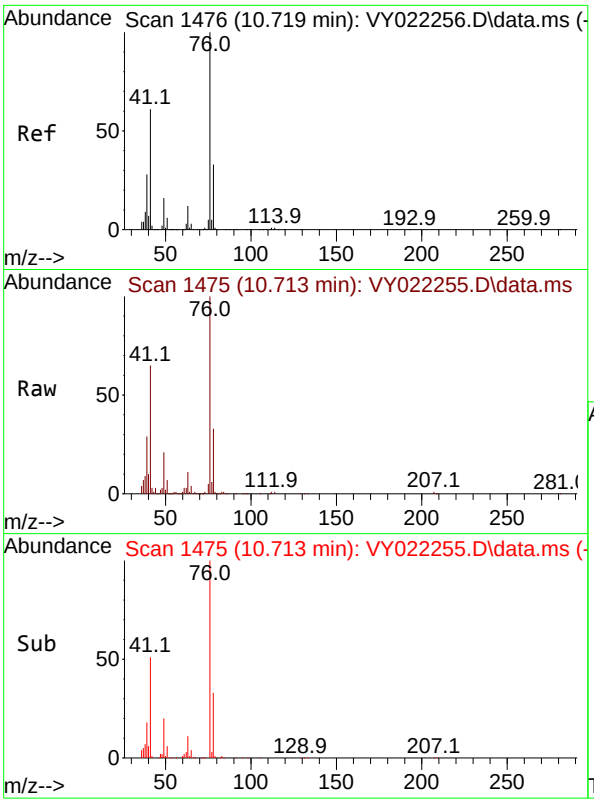


#56
Ethyl methacrylate
Concen: 18.706 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 69 Resp: 62193

Ion	Ratio	Lower	Upper
69	100		
41	73.0	56.5	84.7
39	44.2	37.1	55.7



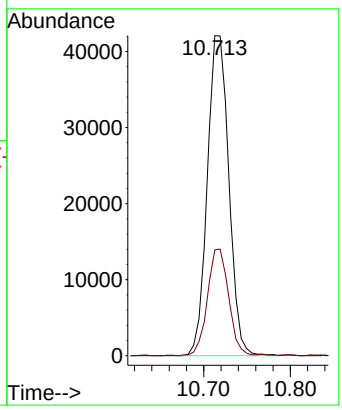


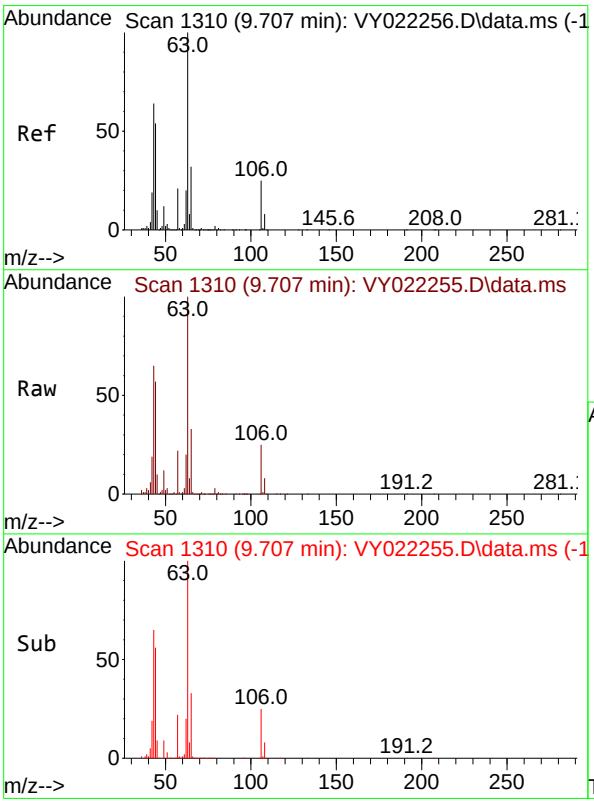
#57
1,3-Dichloropropane
Concen: 19.175 ug/l
RT: 10.713 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 76 Resp: 72715

Ion	Ratio	Lower	Upper
76	100		
78	33.1	25.8	38.8

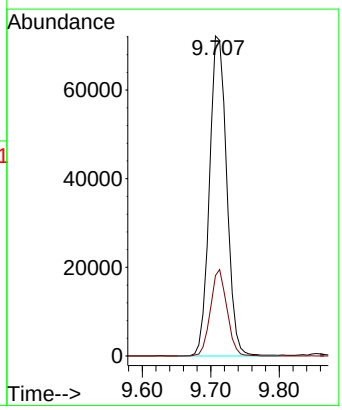


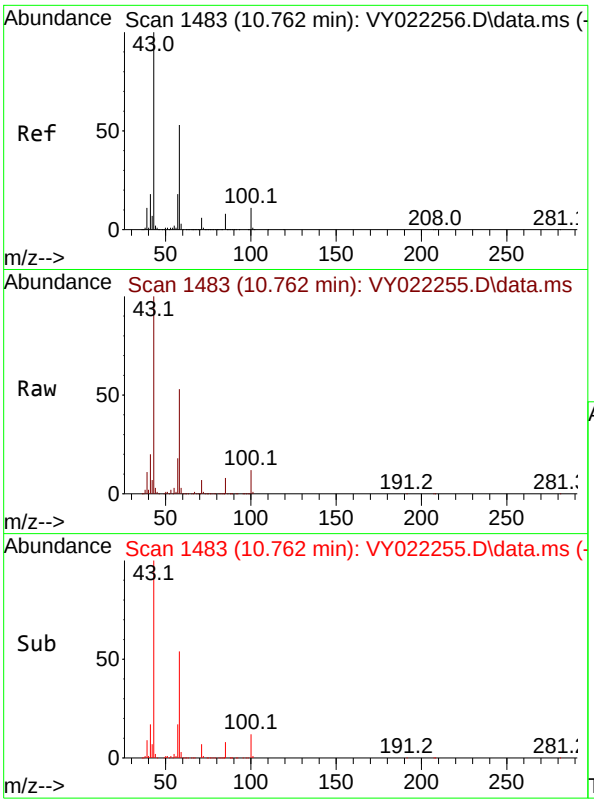


#58
2-Chloroethyl Vinyl ether
Concen: 84.595 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 63 Resp: 126240

Ion	Ratio	Lower	Upper
63	100		
106	25.7	21.0	31.4



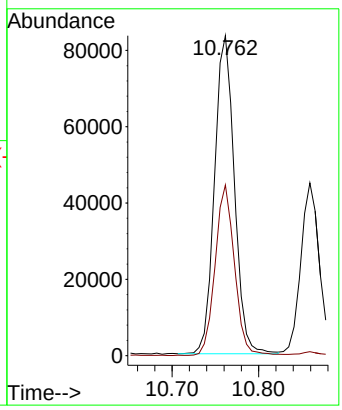


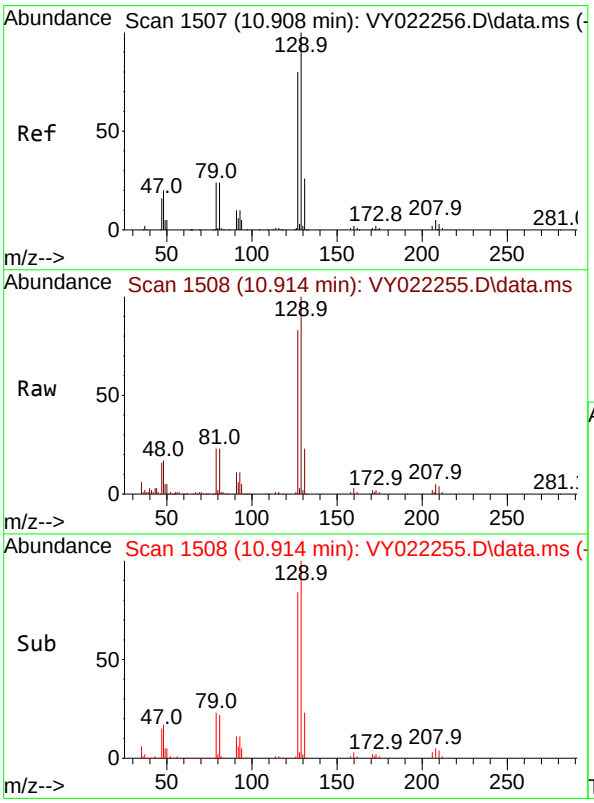
#59
2-Hexanone
Concen: 88.766 ug/l
RT: 10.762 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 132496

Ion	Ratio	Lower	Upper
43	100		
58	52.4	26.1	78.3

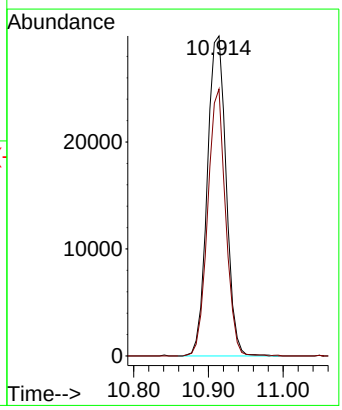


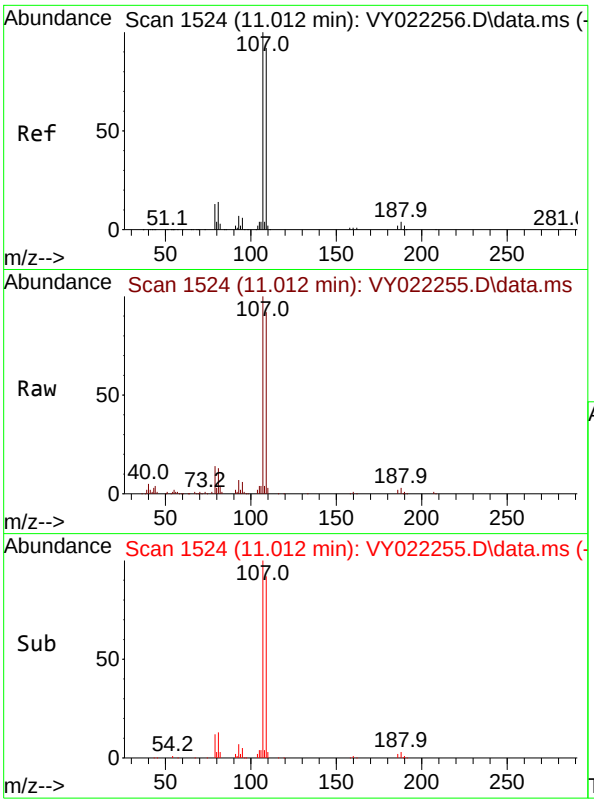


#60
Dibromochloromethane
Concen: 18.898 ug/l
RT: 10.914 min Scan# 1508
Delta R.T. 0.006 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion:129 Resp: 52353

Ion	Ratio	Lower	Upper
129	100		
127	79.1	38.6	115.7



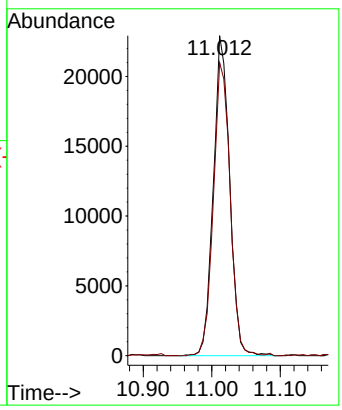


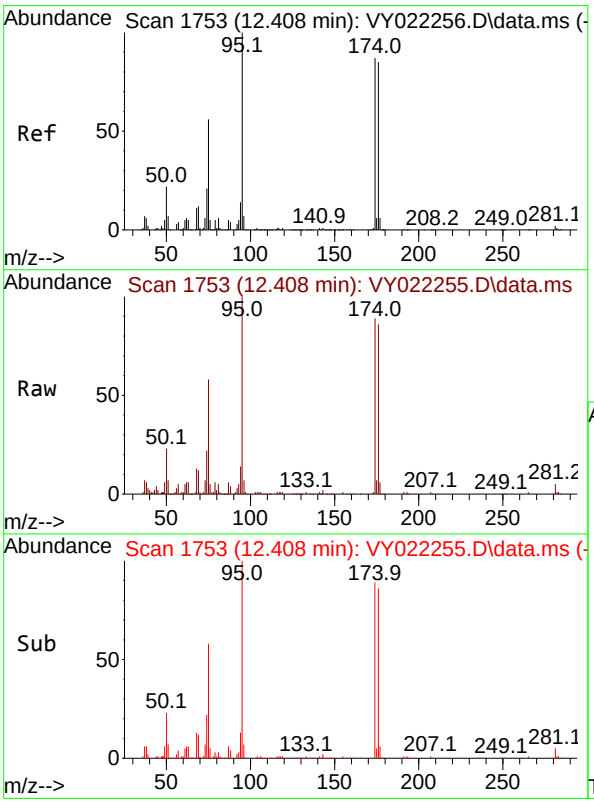
#61
1,2-Dibromoethane
Concen: 18.969 ug/l
RT: 11.012 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion:107 Resp: 37735

Ion	Ratio	Lower	Upper
107	100		
109	94.1	74.6	111.8

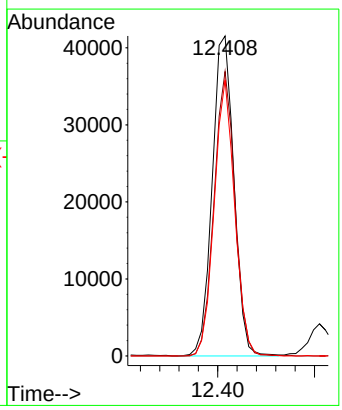


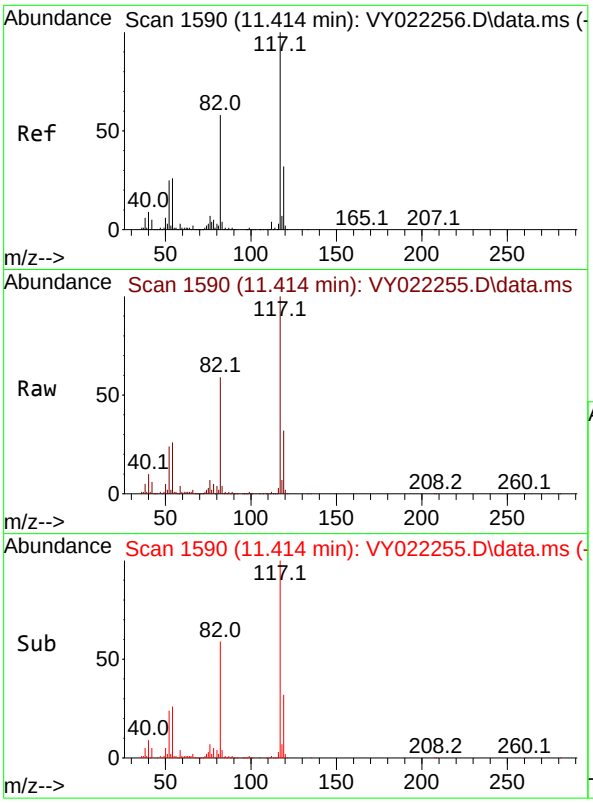


#62
4-Bromofluorobenzene
Concen: 18.988 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 95 Resp: 64706

Ion	Ratio	Lower	Upper
95	100		
174	85.7	0.0	166.8
176	81.3	0.0	160.8



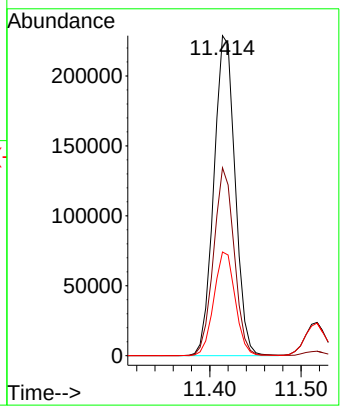


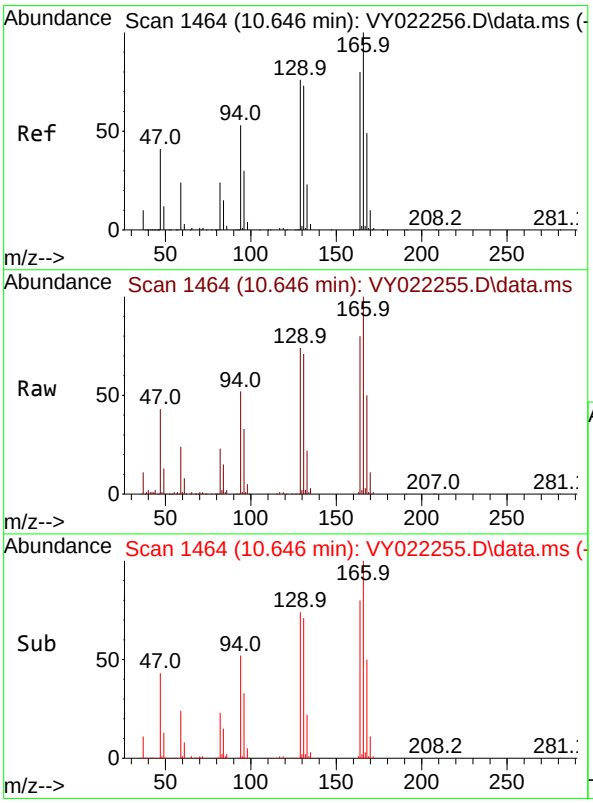
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion:117 Resp: 370072

Ion	Ratio	Lower	Upper
117	100		
82	58.7	46.6	70.0
119	32.4	25.8	38.6

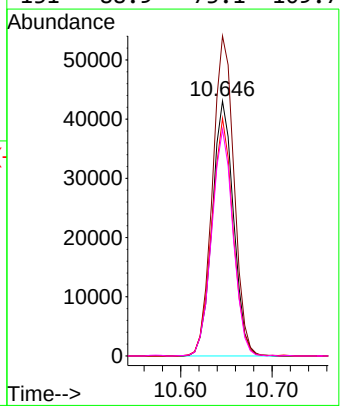


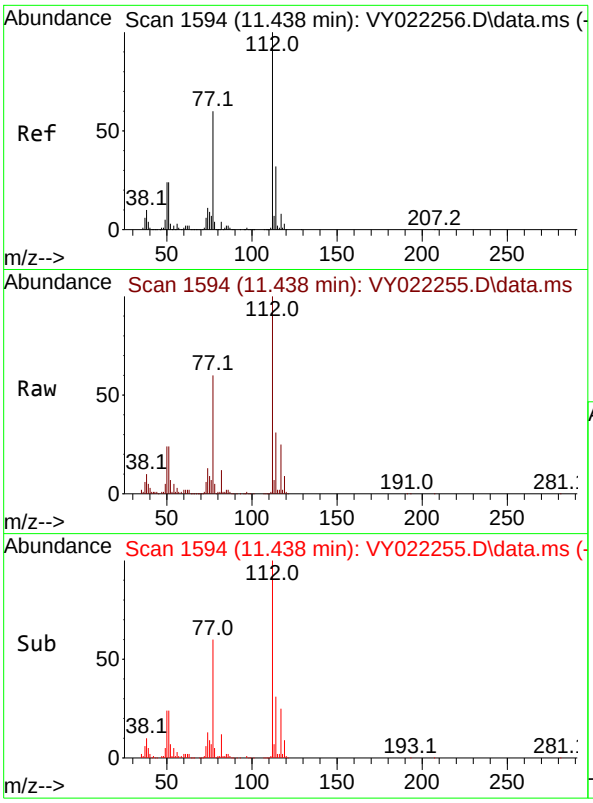


#64
Tetrachloroethene
Concen: 20.332 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion:164 Resp: 69548

Ion	Ratio	Lower	Upper
164	100		
166	125.6	100.4	150.6
129	93.2	76.4	114.6
131	88.9	73.1	109.7



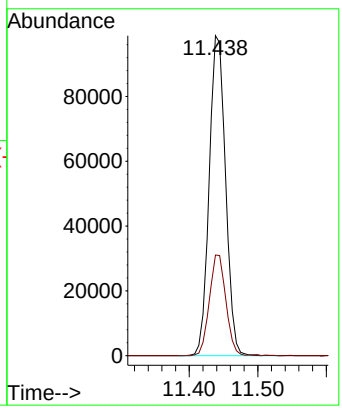


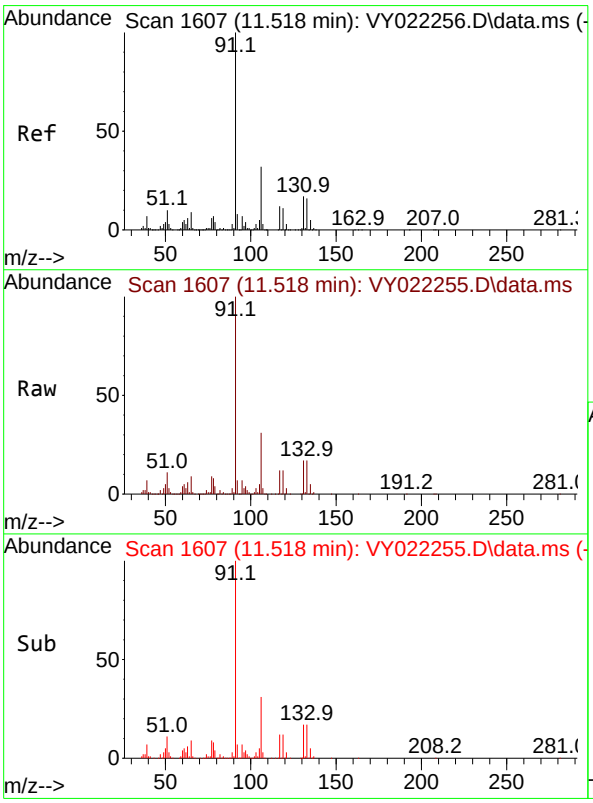
#65
Chlorobenzene
Concen: 19.610 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion:112 Resp: 163725

Ion	Ratio	Lower	Upper
112	100		
114	31.4	25.8	38.6

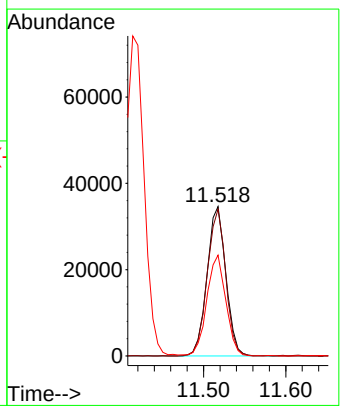


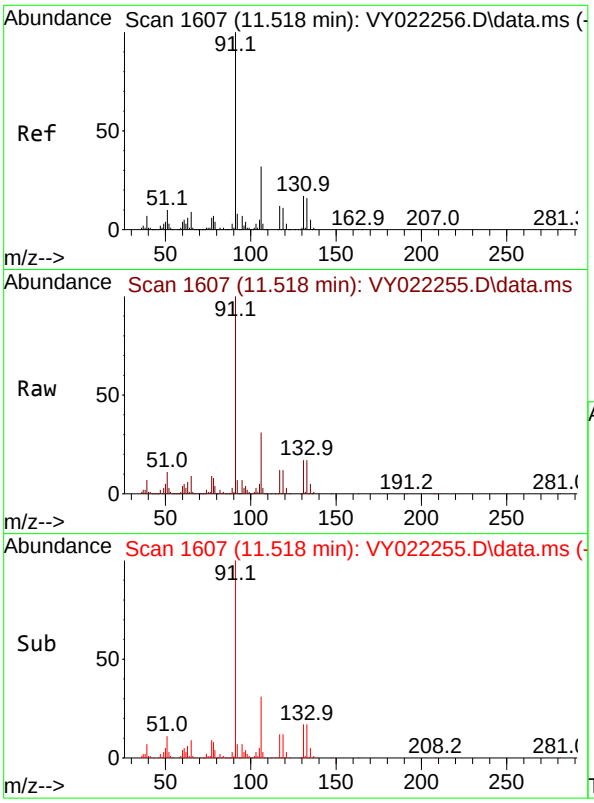


#66
1,1,1,2-Tetrachloroethane
Concen: 19.189 ug/l
RT: 11.518 min Scan# 1607
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion:131 Resp: 55078

Ion	Ratio	Lower	Upper
131	100		
133	96.5	47.3	141.9
119	68.4	33.1	99.2



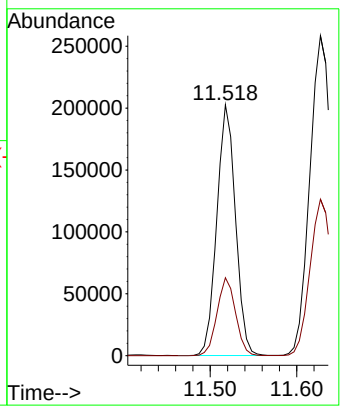


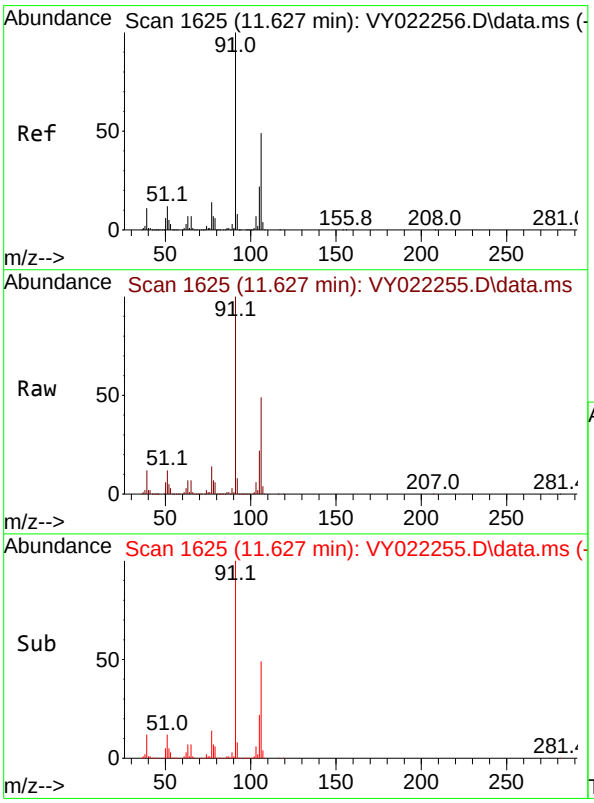
#67
Ethyl Benzene
Concen: 19.402 ug/l
RT: 11.518 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 91 Resp: 303375

Ion	Ratio	Lower	Upper
91	100		
106	31.1	25.4	38.0

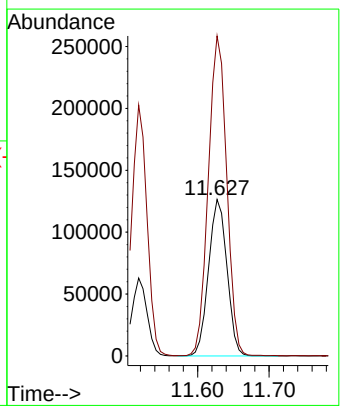


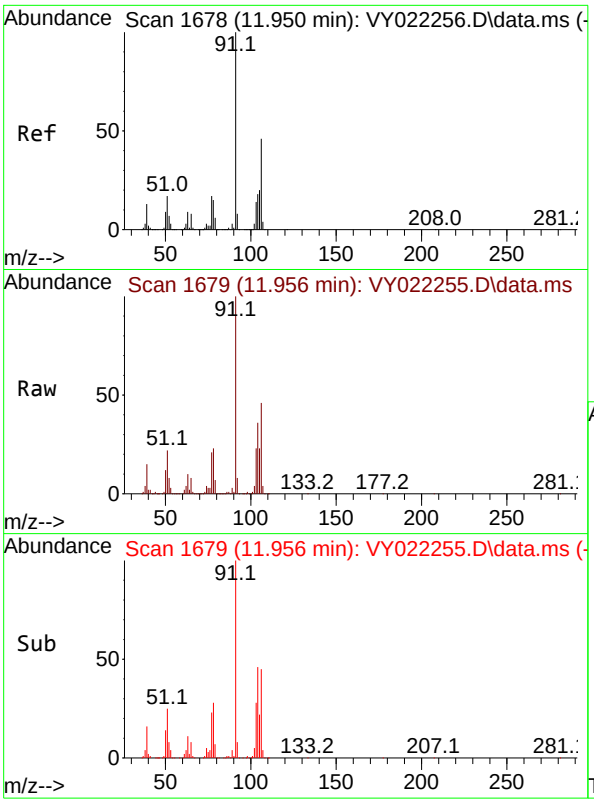


#68
m/p-Xylenes
Concen: 38.355 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion:106 Resp: 225990

Ion	Ratio	Lower	Upper
106	100		
91	204.2	163.0	244.4



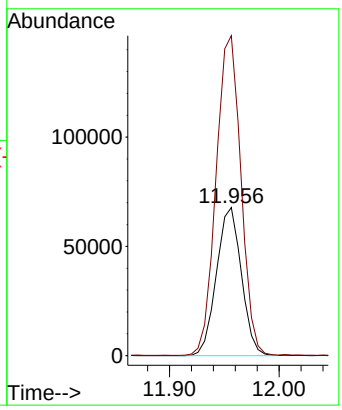


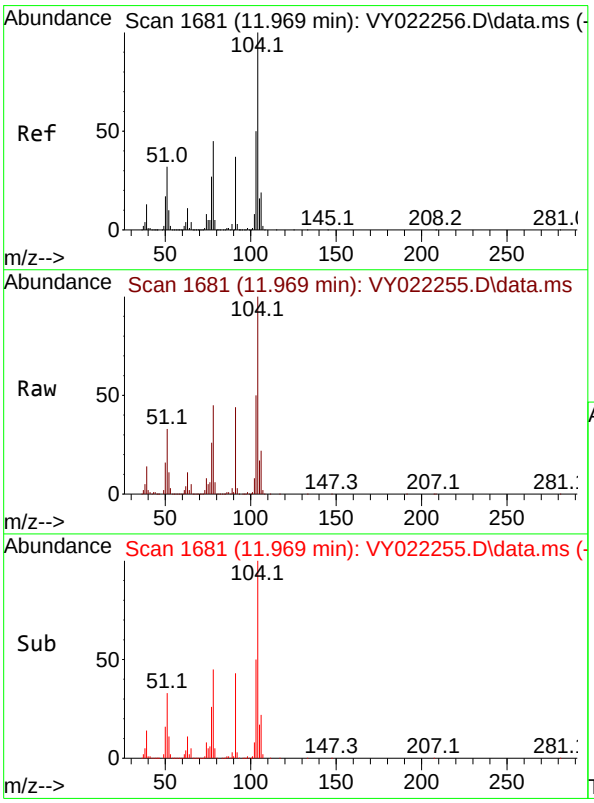
#69
o-Xylene
Concen: 19.194 ug/l
RT: 11.956 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion:106 Resp: 106998

Ion	Ratio	Lower	Upper
106	100		
91	215.7	108.3	324.8

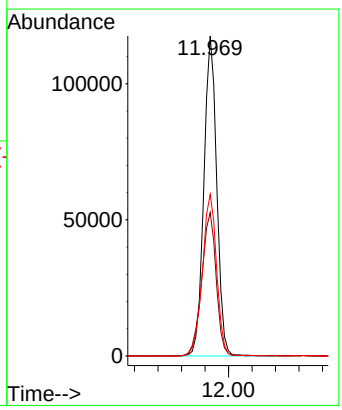


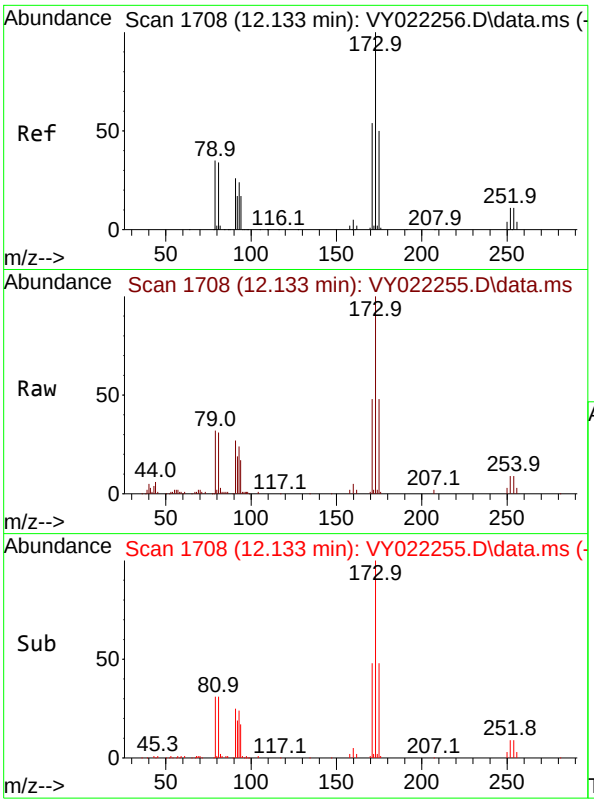


#70
Styrene
Concen: 19.048 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion:104 Resp: 179114

Ion	Ratio	Lower	Upper
104	100		
78	50.3	40.9	61.3
103	55.7	43.7	65.5



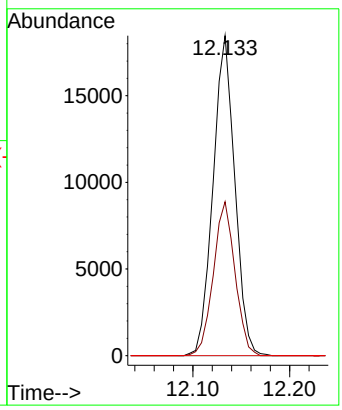


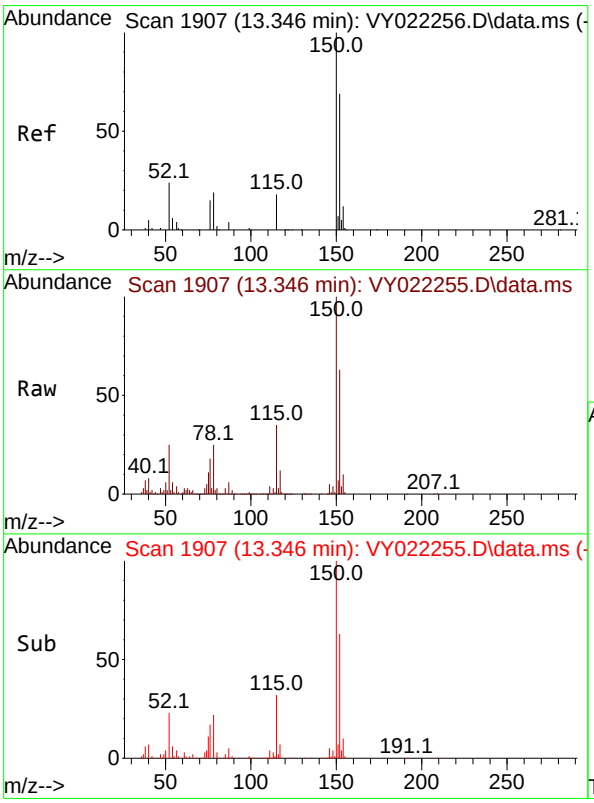
#71
Bromoform
Concen: 18.582 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion:173 Resp: 28788

Ion	Ratio	Lower	Upper
173	100		
175	48.0	24.7	74.1
254	0.0	0.0	0.0

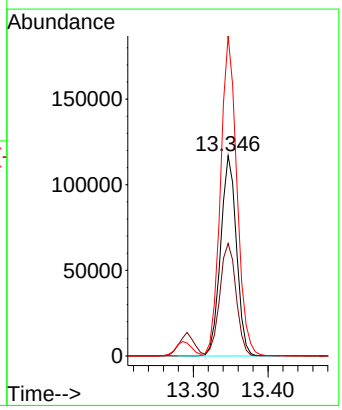


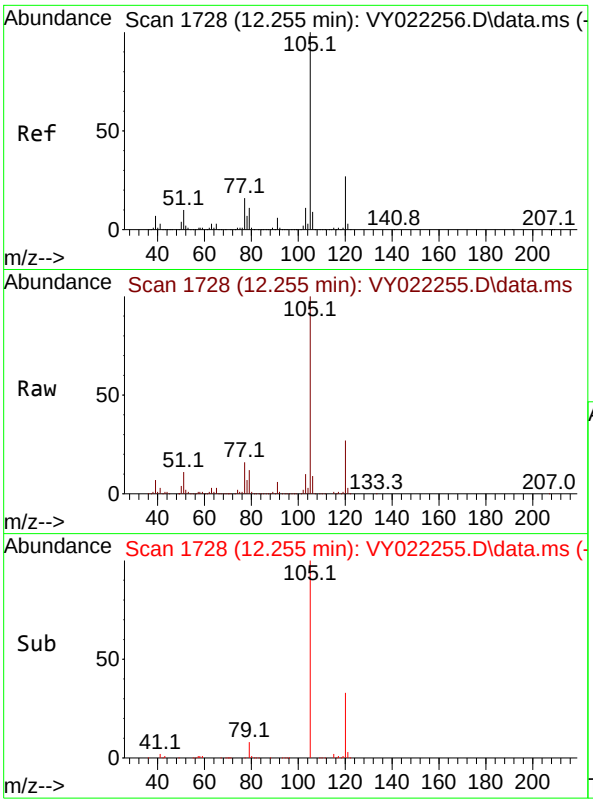


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion:152 Resp: 172509

Ion	Ratio	Lower	Upper
152	100		
115	57.6	29.4	88.2
150	165.2	0.0	353.8



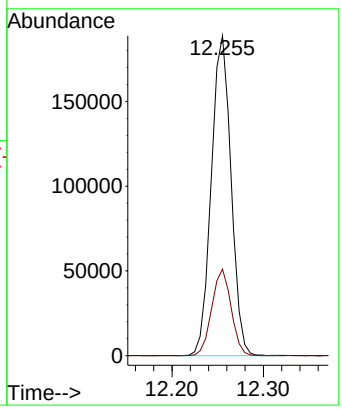


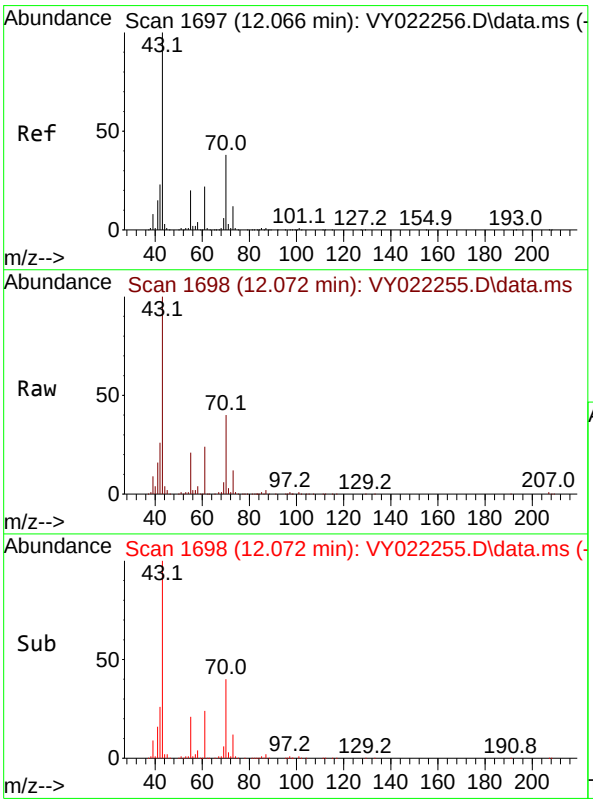
#73
Isopropylbenzene
Concen: 19.795 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion:105 Resp: 282895

Ion	Ratio	Lower	Upper
105	100		
120	26.5	13.2	39.6

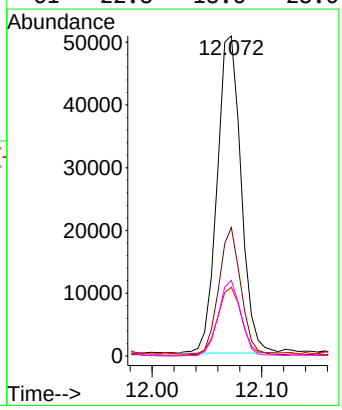


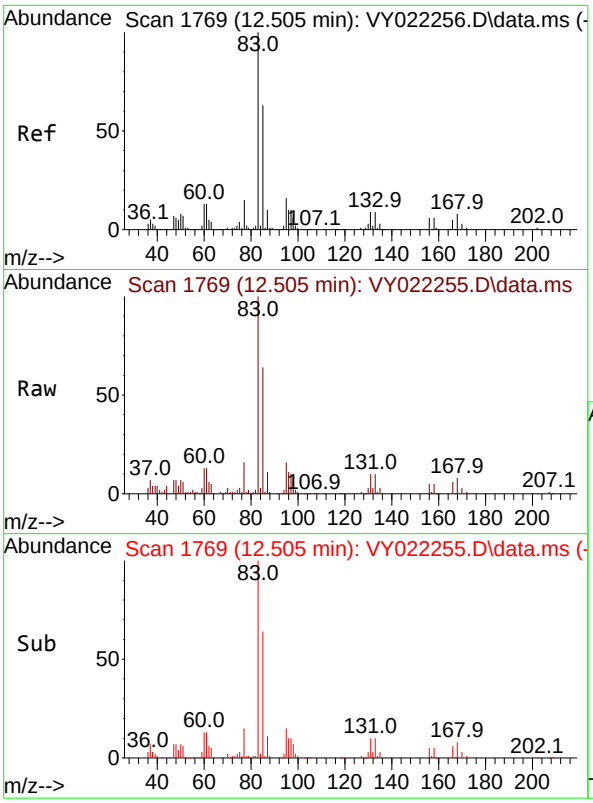


#74
N-amyl acetate
Concen: 18.799 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.006 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 43 Resp: 76841

Ion	Ratio	Lower	Upper
43	100		
70	37.3	31.4	47.0
55	21.3	17.0	25.6
61	22.8	18.6	28.0



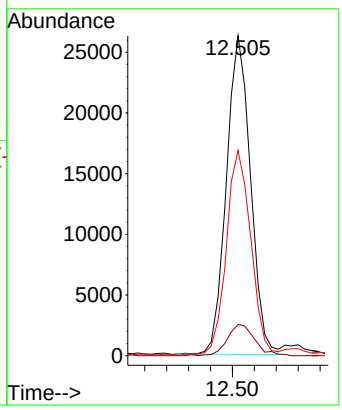


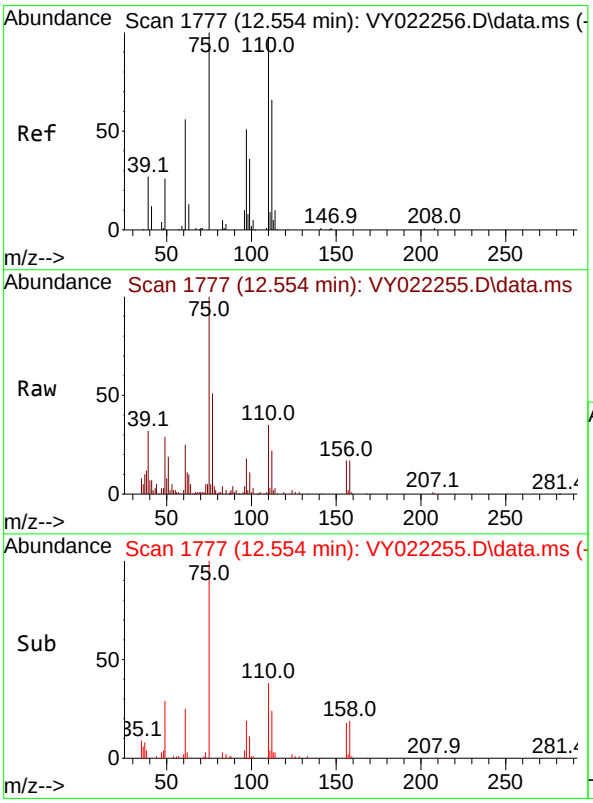
#75
1,1,2,2-Tetrachloroethane
Concen: 18.228 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 83 Resp: 40064

Ion	Ratio	Lower	Upper
83	100		
131	11.1	4.9	14.7
85	65.9	32.0	96.0

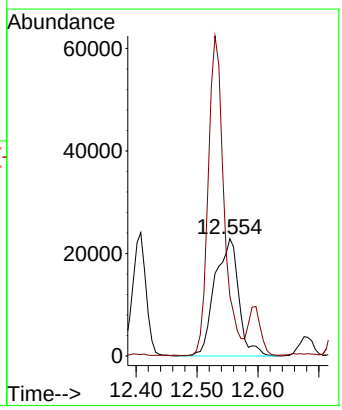


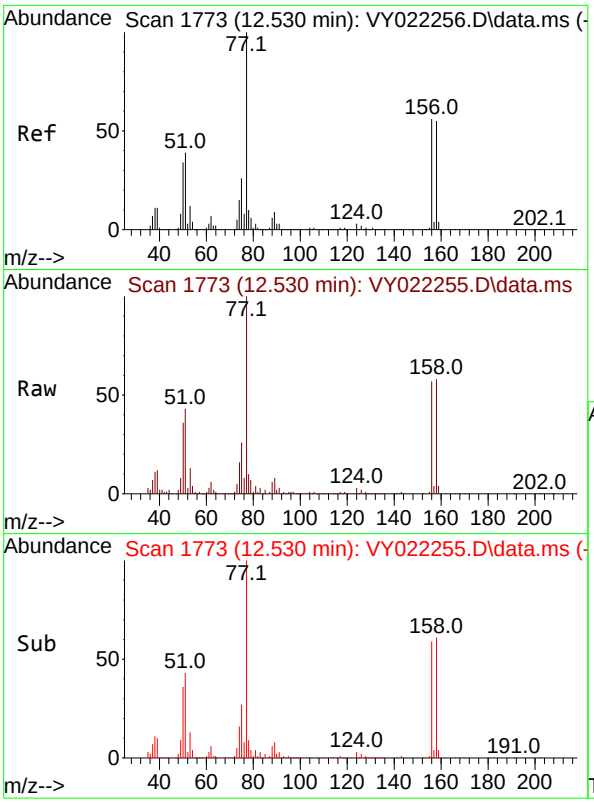


#76
1,2,3-Trichloropropane
Concen: 20.483 ug/l
RT: 12.554 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 75 Resp: 62275

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0



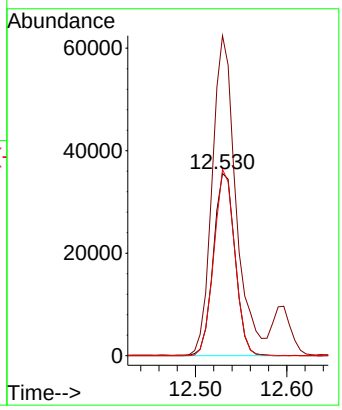


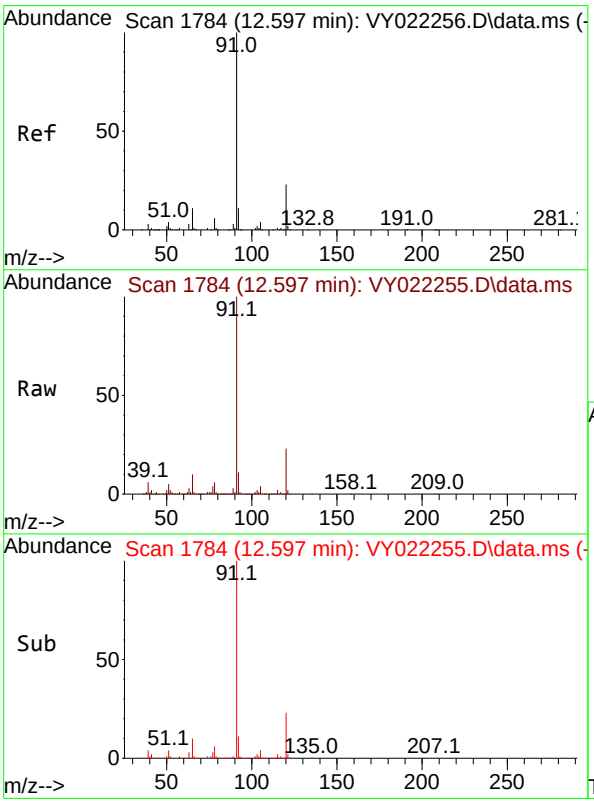
#77
Bromobenzene
Concen: 19.170 ug/l
RT: 12.530 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion:156 Resp: 58515

Ion	Ratio	Lower	Upper
156	100		
77	190.6	94.5	283.6
158	99.0	48.4	145.3

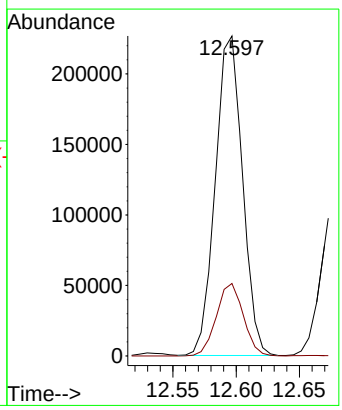


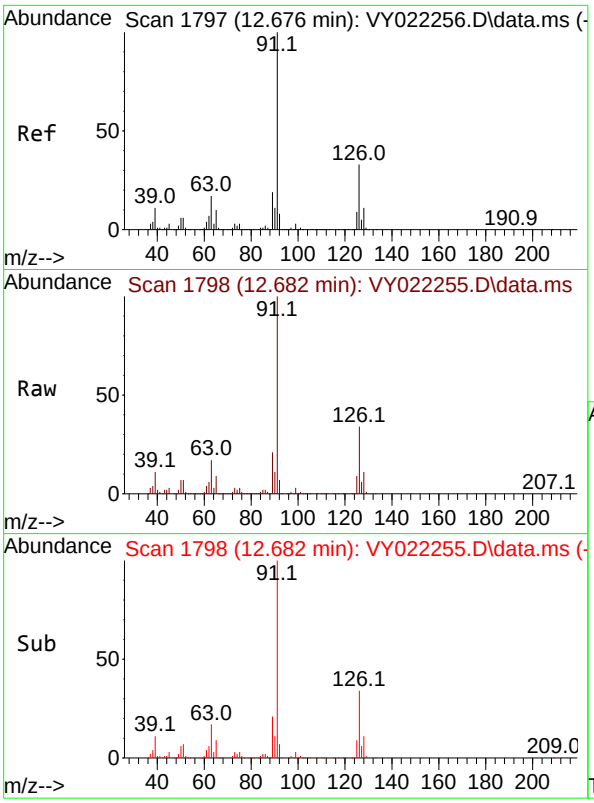


#78
n-propylbenzene
Concen: 19.630 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 91 Resp: 338383

Ion	Ratio	Lower	Upper
91	100		
120	22.5	11.1	33.3



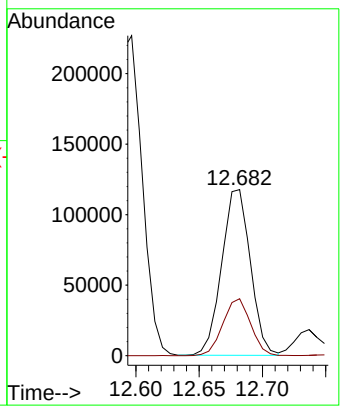


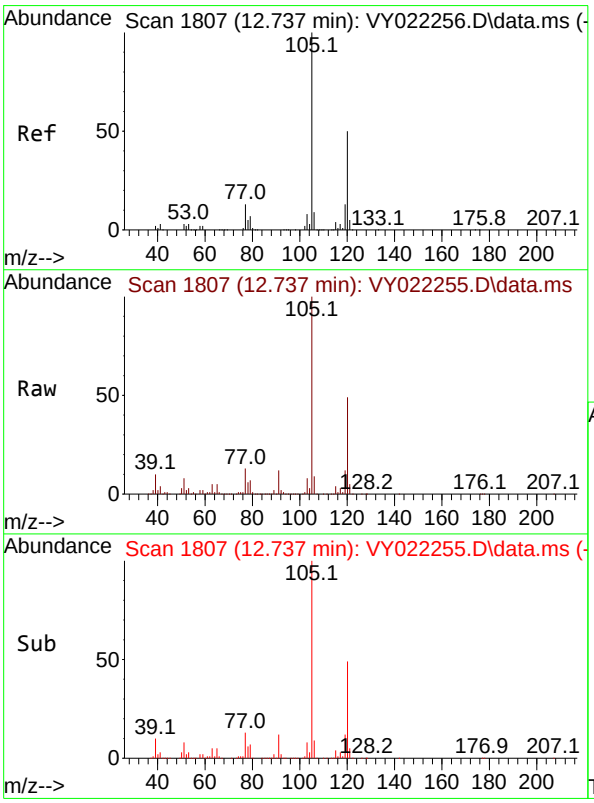
#79
2-Chlorotoluene
Concen: 19.621 ug/l
RT: 12.682 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 91 Resp: 185872

Ion	Ratio	Lower	Upper
91	100		
126	33.3	16.8	50.4

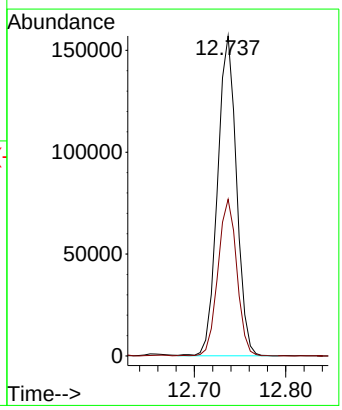


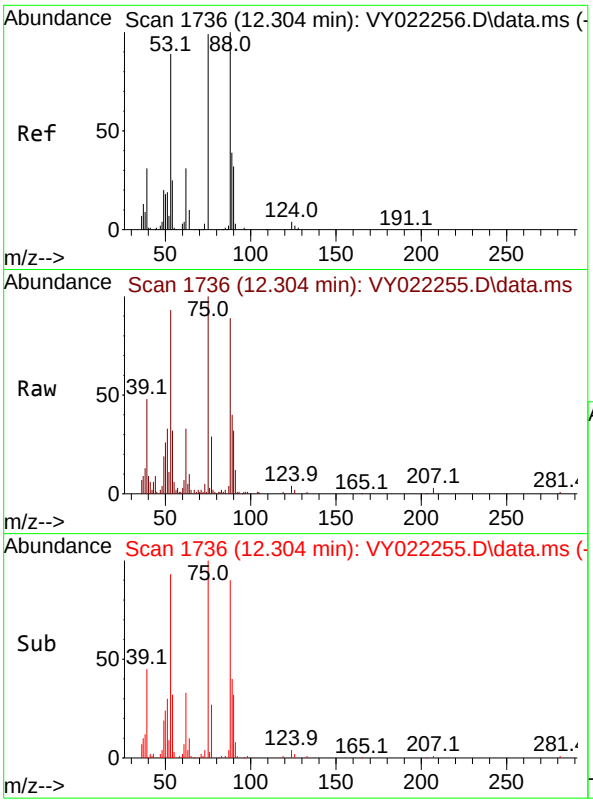


#80
1,3,5-Trimethylbenzene
Concen: 19.587 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion:105 Resp: 225966

Ion	Ratio	Lower	Upper
105	100		
120	48.9	24.2	72.6



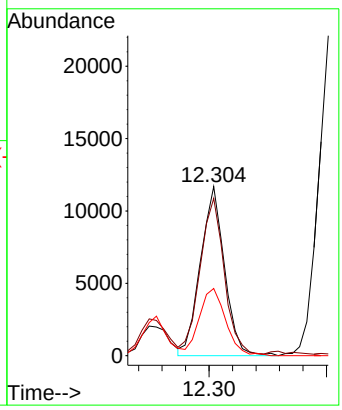


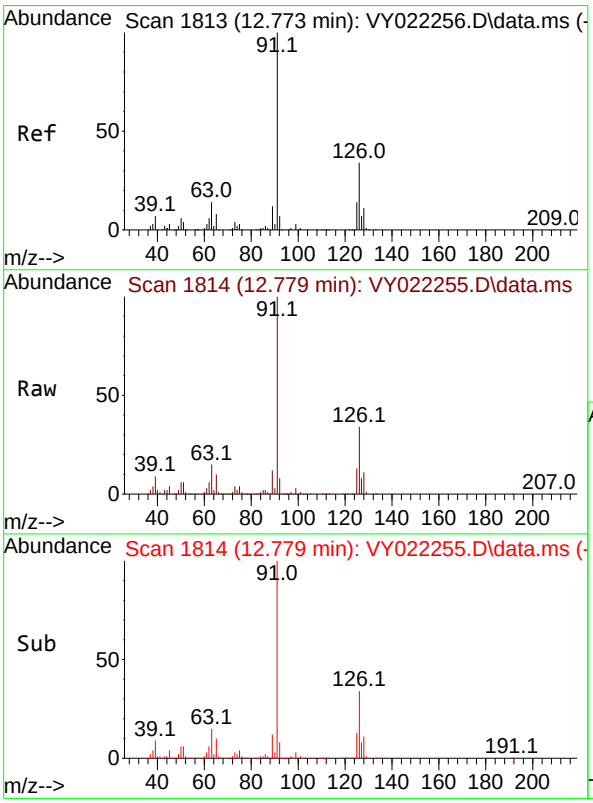
#81
trans-1,4-Dichloro-2-butene
Concen: 19.302 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 75 Resp: 16653

Ion	Ratio	Lower	Upper
75	100		
53	92.5	75.8	113.8
89	43.2	36.2	54.2

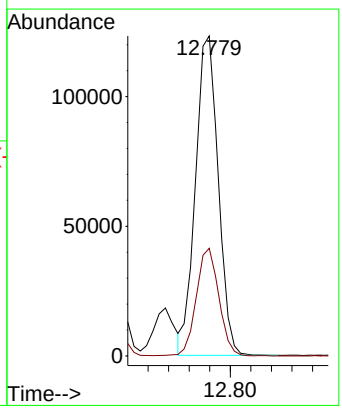


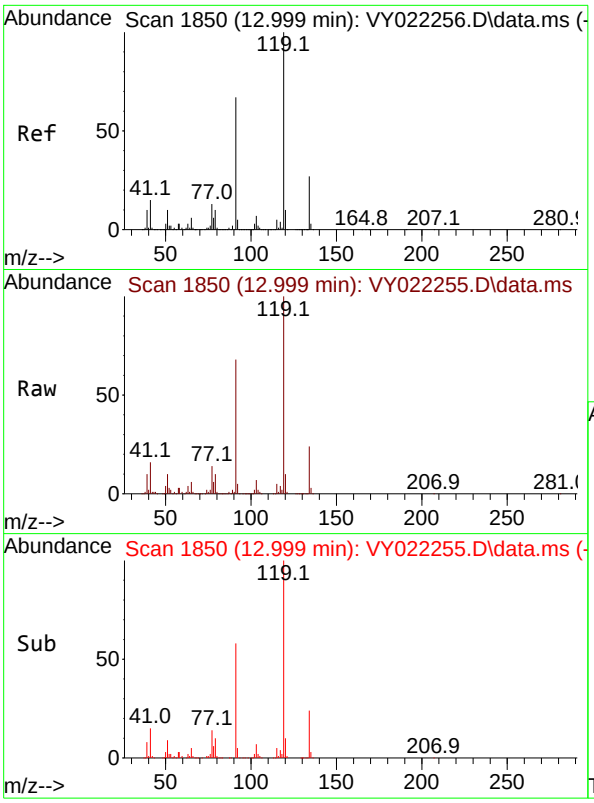


#82
4-Chlorotoluene
Concen: 19.433 ug/l
RT: 12.779 min Scan# 1814
Delta R.T. 0.006 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 91 Resp: 189350

Ion	Ratio	Lower	Upper
91	100		
126	33.6	16.8	50.4



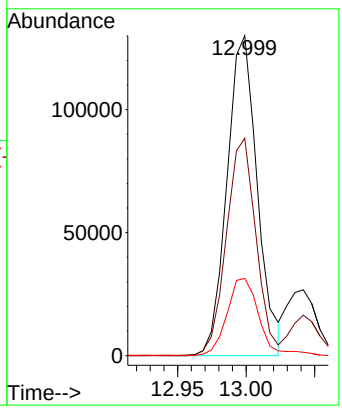


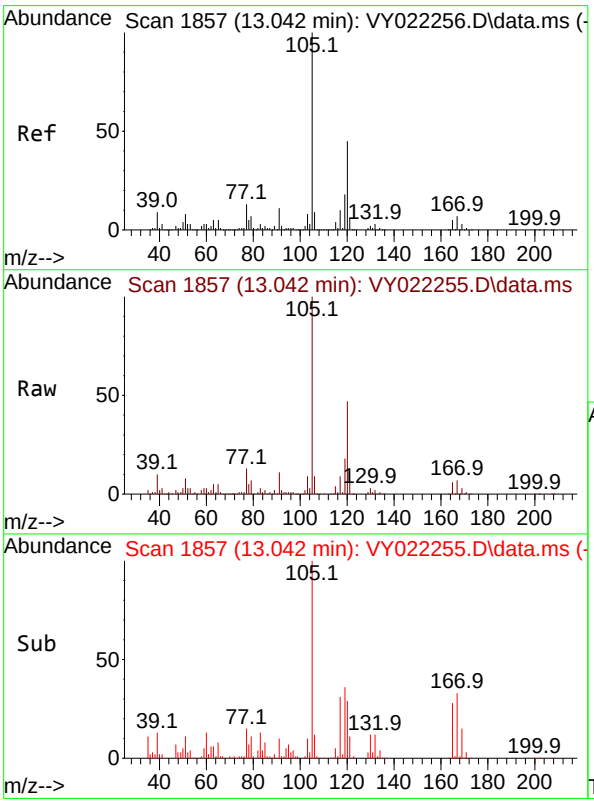
#83
tert-Butylbenzene
Concen: 19.515 ug/l
RT: 12.999 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion:119 Resp: 200101

Ion	Ratio	Lower	Upper
119	100		
91	66.3	32.8	98.3
134	25.6	12.9	38.6

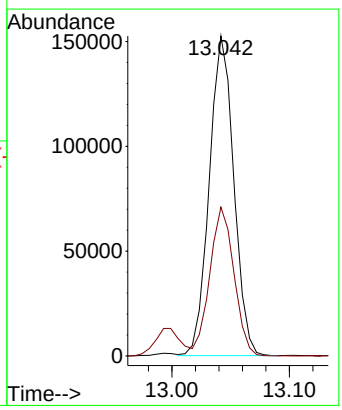


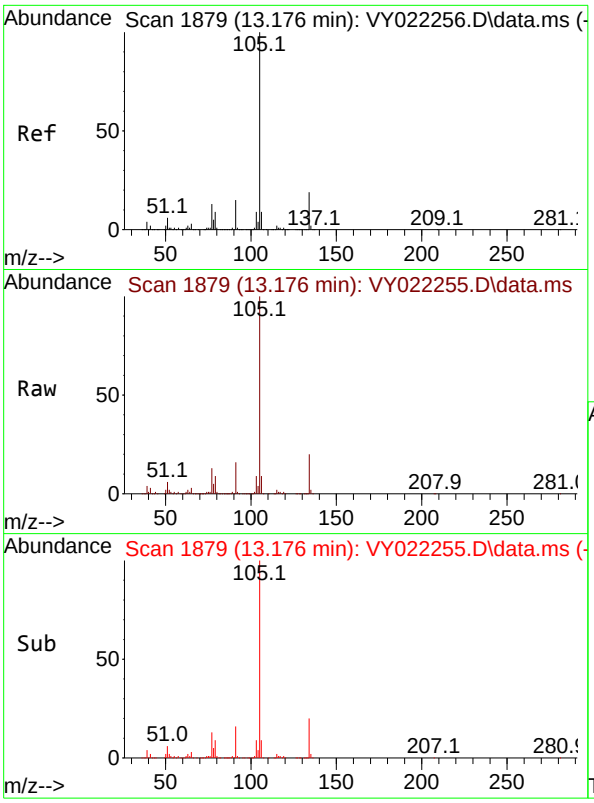


#84
1,2,4-Trimethylbenzene
Concen: 19.315 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion:105 Resp: 221194

Ion	Ratio	Lower	Upper
105	100		
120	45.9	22.3	66.9



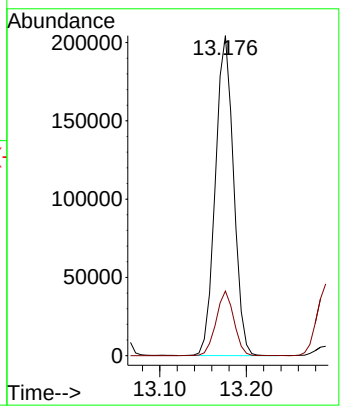


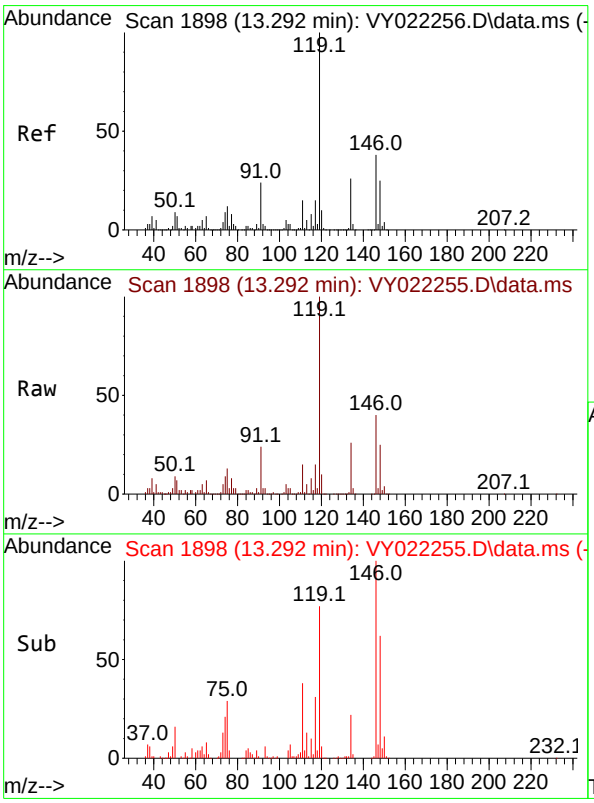
#85
sec-Butylbenzene
Concen: 19.576 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion:105 Resp: 297975

Ion	Ratio	Lower	Upper
105	100		
134	19.9	9.8	29.5

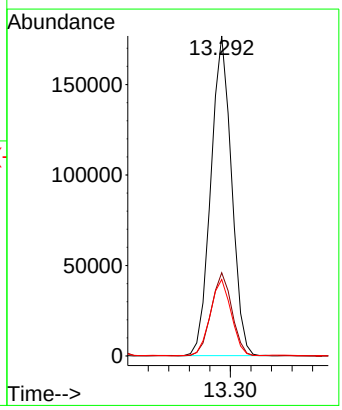


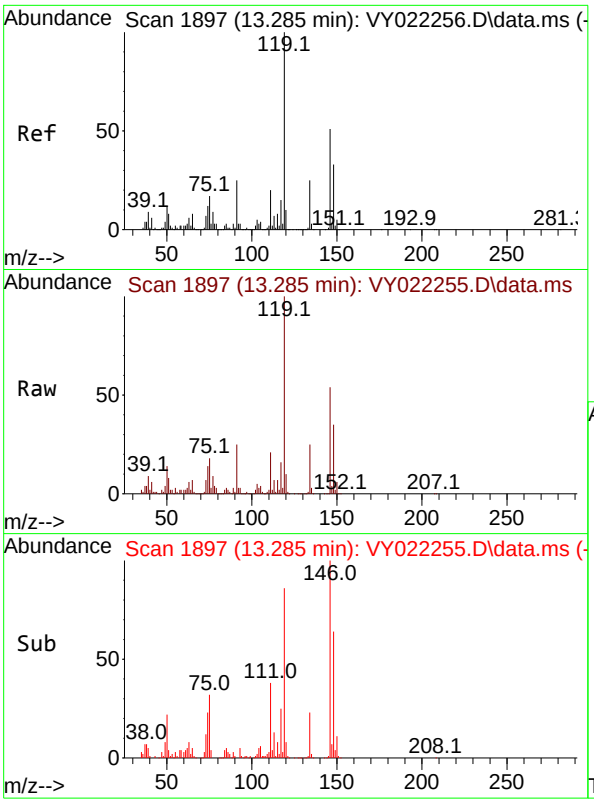


#86
p-Isopropyltoluene
Concen: 19.261 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion:119 Resp: 246569

Ion	Ratio	Lower	Upper
119	100		
134	26.3	12.9	38.6
91	24.2	12.1	36.3



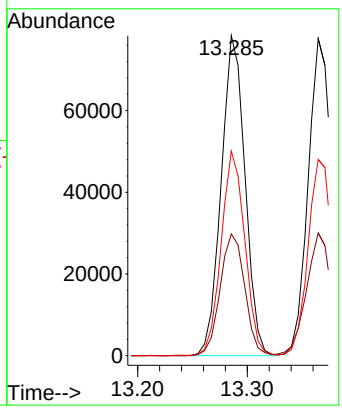


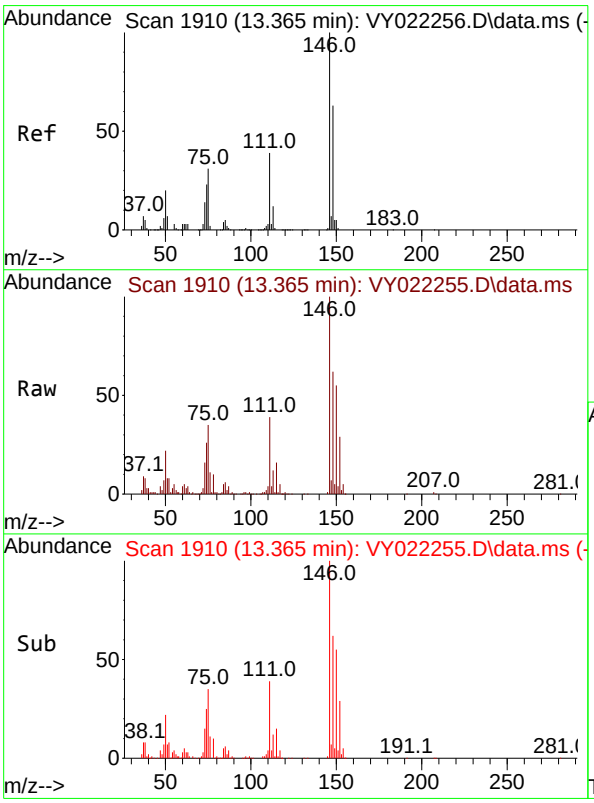
#87
1,3-Dichlorobenzene
Concen: 18.991 ug/l
RT: 13.285 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion:146 Resp: 118336

Ion	Ratio	Lower	Upper
146	100		
111	39.3	19.9	59.7
148	63.4	31.9	95.7

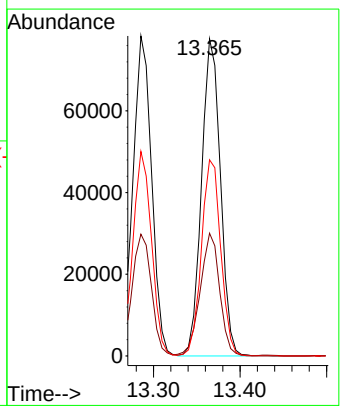


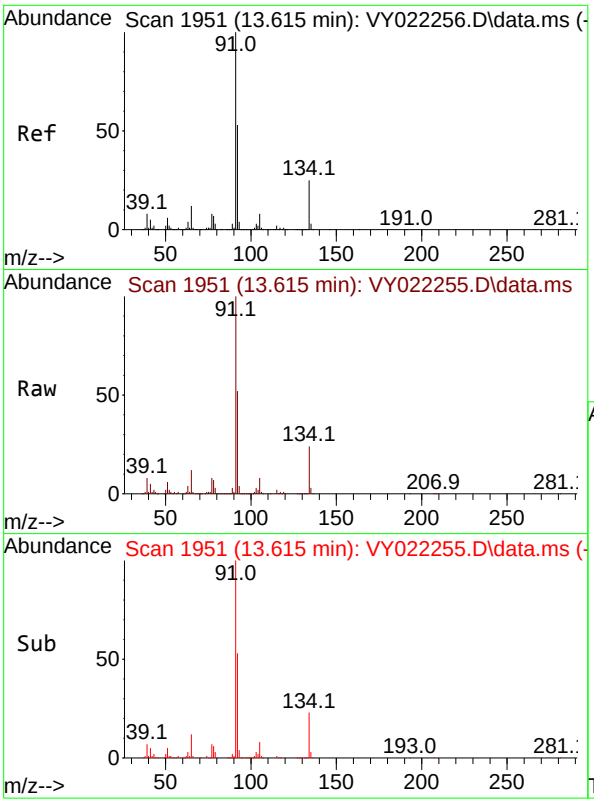


#88
1,4-Dichlorobenzene
Concen: 19.638 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion:146 Resp: 117705

Ion	Ratio	Lower	Upper
146	100		
111	39.8	20.0	59.9
148	63.3	32.1	96.5



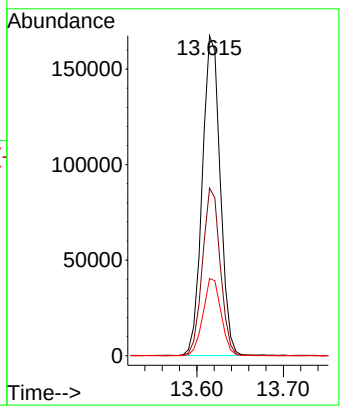


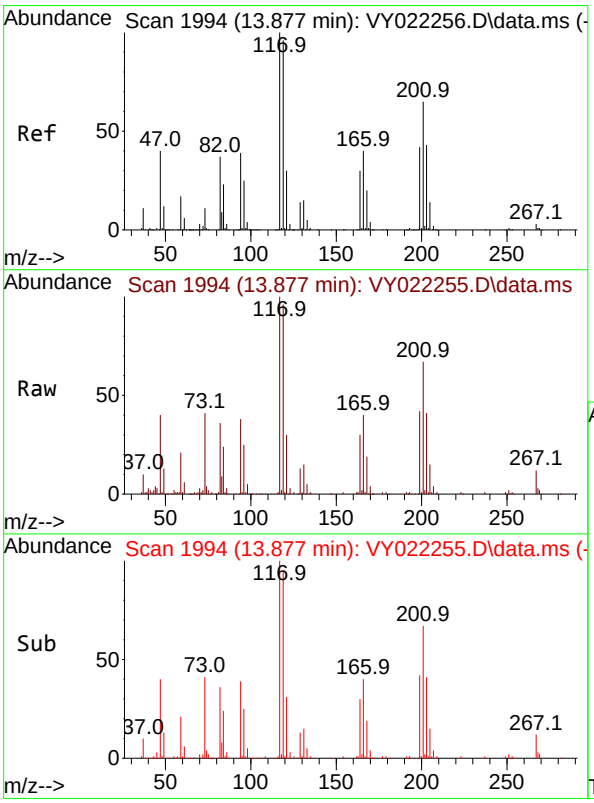
#89
n-Butylbenzene
Concen: 19.887 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 91 Resp: 240857

Ion	Ratio	Lower	Upper
91	100		
92	52.0	26.3	78.9
134	24.3	12.4	37.4

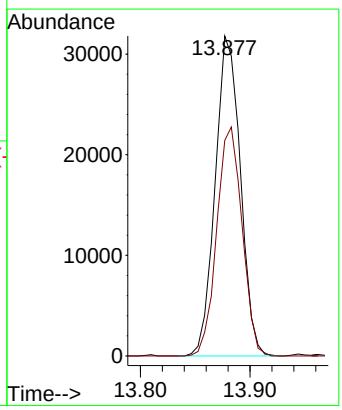


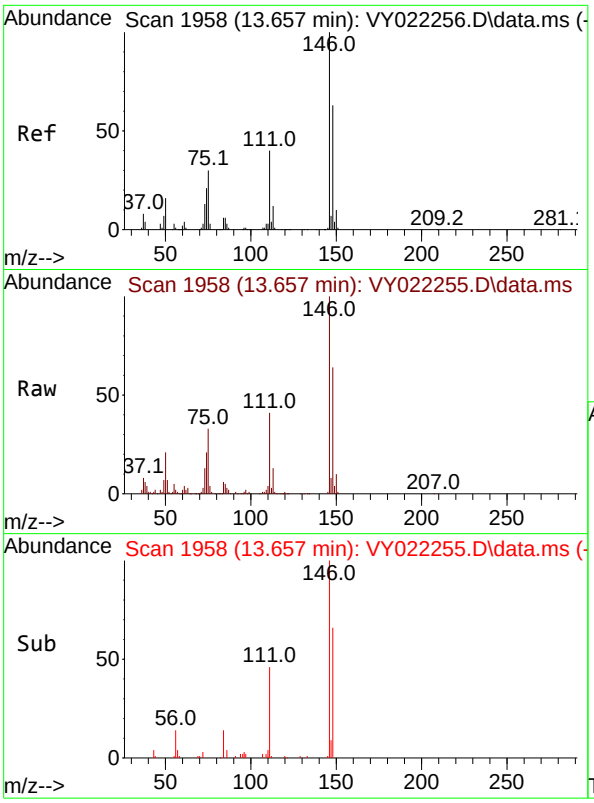


#90
Hexachloroethane
Concen: 19.643 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion:117 Resp: 50762

Ion	Ratio	Lower	Upper
117	100		
201	72.0	35.2	105.6



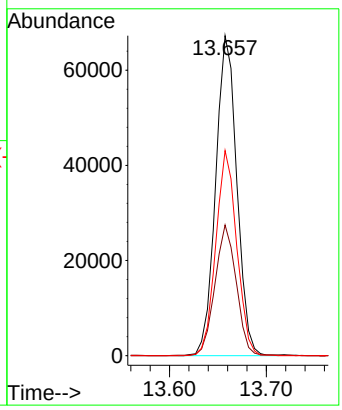


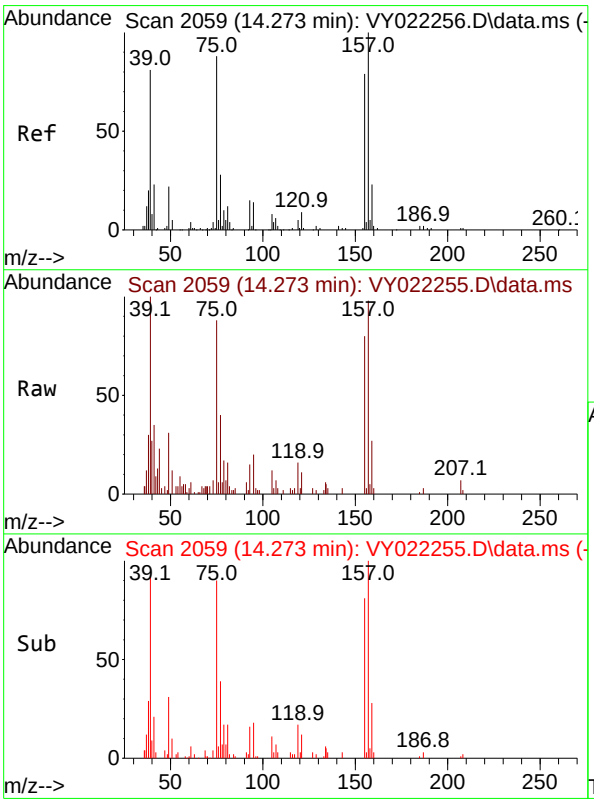
#91
1,2-Dichlorobenzene
Concen: 19.502 ug/l
RT: 13.657 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion:146 Resp: 102077

Ion	Ratio	Lower	Upper
146	100		
111	41.4	20.5	61.5
148	63.2	32.0	96.0

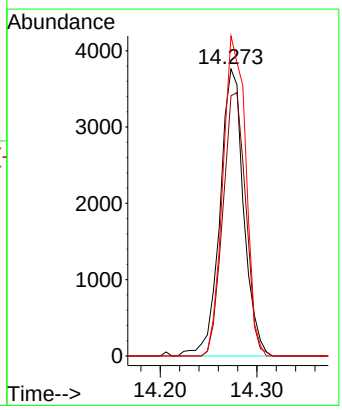


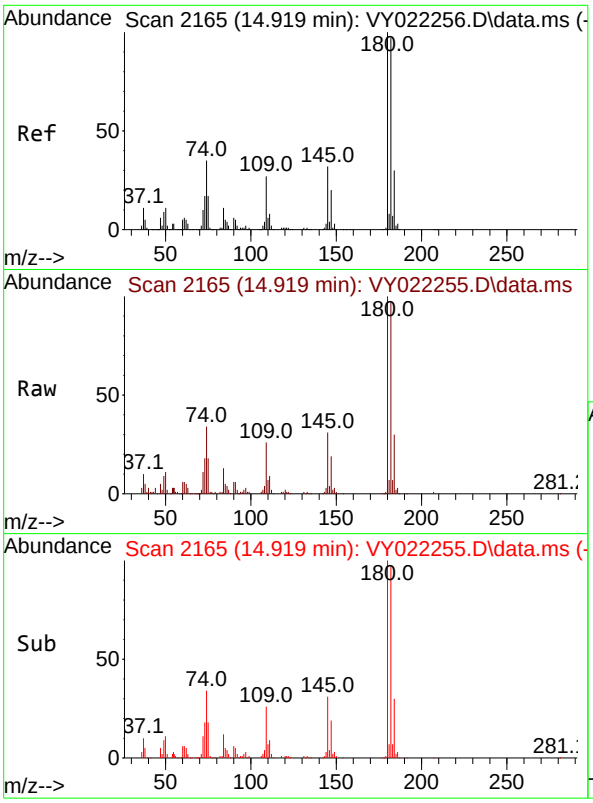


#92
1,2-Dibromo-3-Chloropropane
Concen: 18.021 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion: 75 Resp: 6387

Ion	Ratio	Lower	Upper
75	100		
155	88.5	43.4	130.1
157	107.4	54.6	163.9



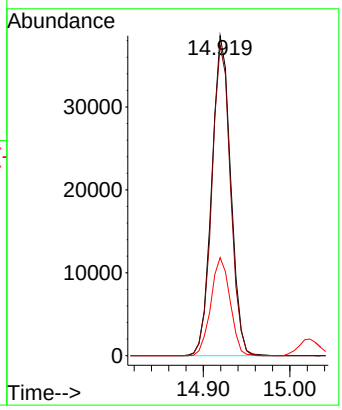


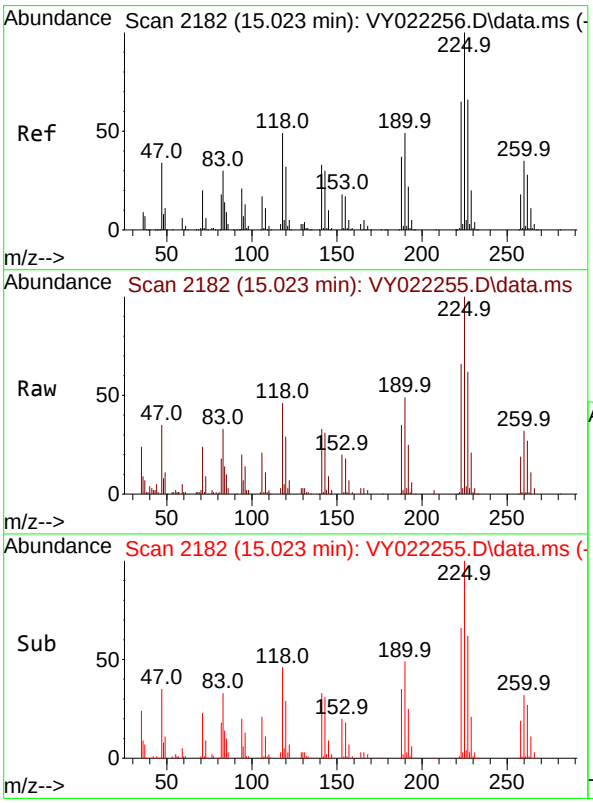
#93
1,2,4-Trichlorobenzene
Concen: 19.346 ug/l
RT: 14.919 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion:180 Resp: 58490

Ion	Ratio	Lower	Upper
180	100		
182	95.9	48.0	144.0
145	31.1	15.0	45.1

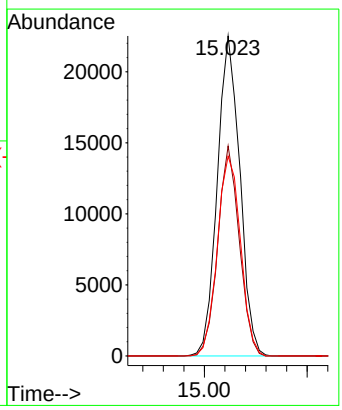


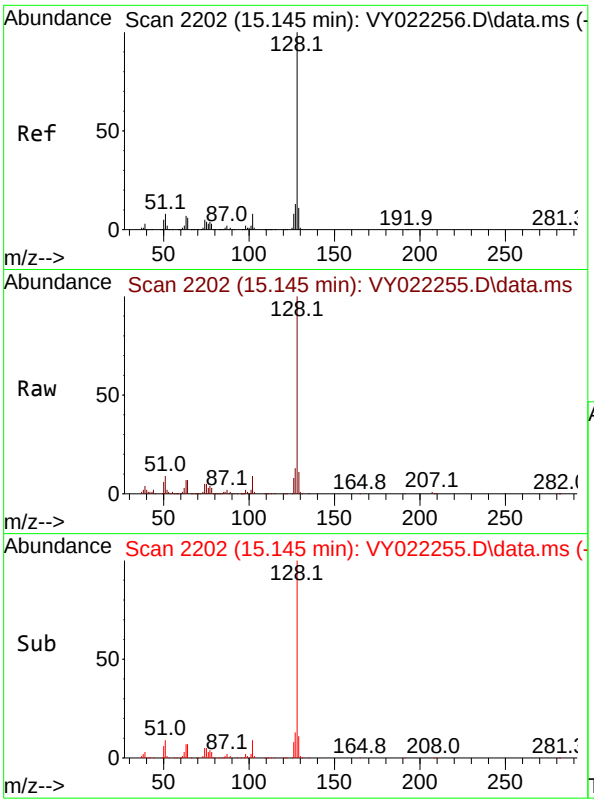


#94
Hexachlorobutadiene
Concen: 20.301 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion:225 Resp: 34228

Ion	Ratio	Lower	Upper
225	100		
223	62.7	31.5	94.5
227	64.3	32.1	96.3



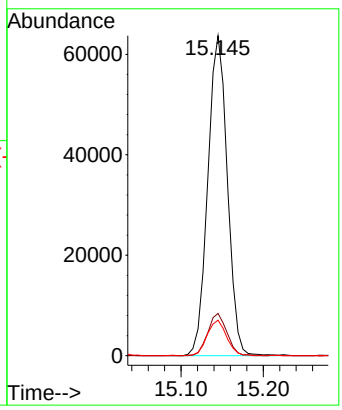


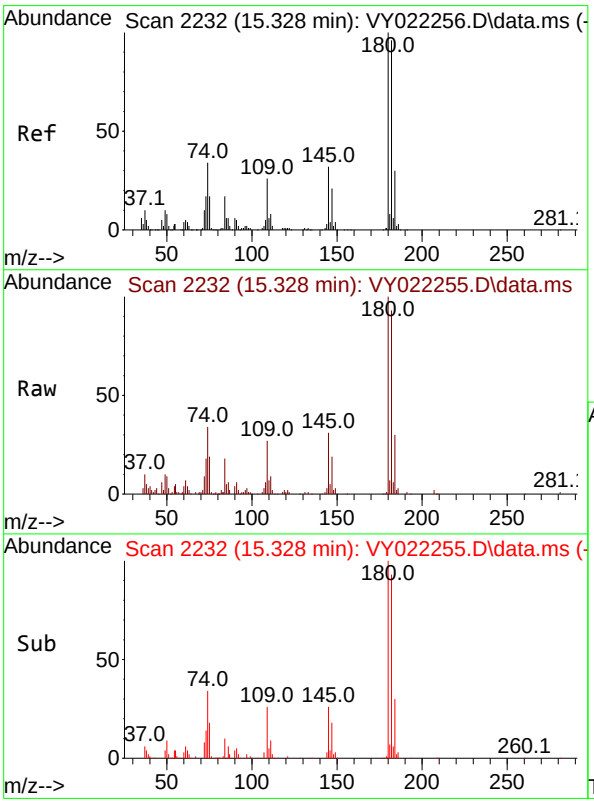
#95
Naphthalene
Concen: 18.362 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion:128 Resp: 105350

Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.2	15.2
129	11.0	8.8	13.2

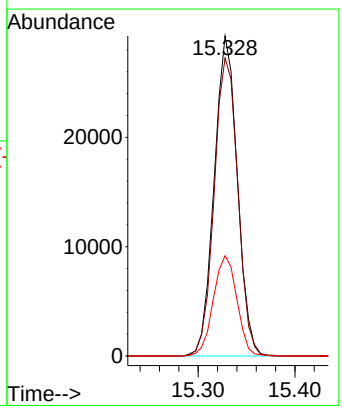




#96
1,2,3-Trichlorobenzene
Concen: 18.888 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. 0.000 min
Lab File: VY022255.D
Acq: 15 May 2025 10:39

Tgt Ion:180 Resp: 48444

Ion	Ratio	Lower	Upper
180	100		
182	95.5	47.1	141.3
145	31.9	15.9	47.6



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022256.D
Acq On : 15 May 2025 11:02
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Quant Time: May 16 01:23:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:19:39 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	267598	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	439323	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	377571	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	180358	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	144713	49.481	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 98.960%			
35) Dibromofluoromethane	7.634	113	132404	50.495	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 100.980%			
50) Toluene-d8	10.103	98	540296	50.311	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 100.620%			
62) 4-Bromofluorobenzene	12.408	95	169827	49.891	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 99.780%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.861	85	135726	48.608	ug/l	100
3) Chloromethane	2.062	50	278892	47.481	ug/l	100
4) Vinyl Chloride	2.202	62	323792	49.341	ug/l	100
5) Bromomethane	2.592	94	234736	43.941	ug/l	100
6) Chloroethane	2.732	64	202370	49.569	ug/l	100
7) Trichlorofluoromethane	3.050	101	324887	48.898	ug/l	100
8) Diethyl Ether	3.452	74	78670	49.338	ug/l	100
9) 1,1,2-Trichlorotrifluo...	3.818	101	144018	49.930	ug/l	100
10) Methyl Iodide	4.007	142	183918	55.091	ug/l	100
11) Tert butyl alcohol	4.872	59	51598	231.036	ug/l #	100
12) 1,1-Dichloroethene	3.787	96	144103	50.344	ug/l	100
13) Acrolein	3.653	56	75423	231.010	ug/l	100
14) Allyl chloride	4.379	41	256499	51.106	ug/l	100
15) Acrylonitrile	5.061	53	160496	244.283	ug/l	100
16) Acetone	3.873	43	124421	226.888	ug/l	100
17) Carbon Disulfide	4.104	76	468979	50.244	ug/l	100
18) Methyl Acetate	4.385	43	80820	48.436	ug/l	100
19) Methyl tert-butyl Ether	5.116	73	390412	49.466	ug/l	100
20) Methylene Chloride	4.616	84	159764	45.087	ug/l	100
21) trans-1,2-Dichloroethene	5.110	96	158544	50.181	ug/l	100
22) Diisopropyl ether	6.019	45	531560	50.152	ug/l	100
23) Vinyl Acetate	5.958	43	1570214	245.223	ug/l	100
24) 1,1-Dichloroethane	5.915	63	298823	50.465	ug/l	100
25) 2-Butanone	6.896	43	215828	235.291	ug/l	100
26) 2,2-Dichloropropane	6.884	77	264141	50.153	ug/l	100
27) cis-1,2-Dichloroethene	6.890	96	184842	50.698	ug/l	100
28) Bromochloromethane	7.244	49	126541	50.100	ug/l	100
29) Tetrahydrofuran	7.262	42	142772	241.931	ug/l	100
30) Chloroform	7.421	83	288708	50.831	ug/l	100
31) Cyclohexane	7.701	56	282375	47.728	ug/l	100
32) 1,1,1-Trichloroethane	7.616	97	259382	49.777	ug/l	100
36) 1,1-Dichloropropene	7.835	75	221943	51.388	ug/l	100
37) Ethyl Acetate	6.988	43	102924	49.529	ug/l	100
38) Carbon Tetrachloride	7.817	117	226903	50.754	ug/l	100
39) Methylcyclohexane	9.109	83	294336	50.726	ug/l	100
40) Benzene	8.079	78	658644	51.442	ug/l	100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022256.D
Acq On : 15 May 2025 11:02
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Quant Time: May 16 01:23:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:19:39 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.220	41	52599	34.592	ug/l	#	78
42) 1,2-Dichloroethane	8.158	62	176425	50.954	ug/l		100
43) Isopropyl Acetate	8.195	43	225628	49.785	ug/l		100
44) Trichloroethene	8.866	130	162802	51.138	ug/l		100
45) 1,2-Dichloropropane	9.140	63	156870	50.819	ug/l		100
46) Dibromomethane	9.231	93	82994	49.849	ug/l		100
47) Bromodichloromethane	9.420	83	222159	51.435	ug/l		100
48) Methyl methacrylate	9.219	41	105390	49.726	ug/l		100
49) 1,4-Dioxane	9.231	88	18027	958.446	ug/l		100
51) 4-Methyl-2-Pentanone	9.999	43	556123	250.085	ug/l		100
52) Toluene	10.170	92	414584	51.134	ug/l		100
53) t-1,3-Dichloropropene	10.390	75	213993	50.768	ug/l		100
54) cis-1,3-Dichloropropene	9.853	75	246990	51.143	ug/l		100
55) 1,1,2-Trichloroethane	10.573	97	106676	50.036	ug/l		100
56) Ethyl methacrylate	10.438	69	167259	50.364	ug/l		100
57) 1,3-Dichloropropane	10.719	76	192275	50.759	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.707	63	403074	270.408	ug/l		100
59) 2-Hexanone	10.762	43	365111	244.881	ug/l		100
60) Dibromochloromethane	10.908	129	141896	51.278	ug/l		100
61) 1,2-Dibromoethane	11.012	107	99822	50.236	ug/l		100
64) Tetrachloroethene	10.646	164	178854	51.249	ug/l		100
65) Chlorobenzene	11.438	112	435874	51.169	ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.518	131	148798	50.811	ug/l		100
67) Ethyl Benzene	11.518	91	821168	51.473	ug/l		100
68) m/p-Xylenes	11.627	106	617646	102.746	ug/l		100
69) o-Xylene	11.950	106	289897	50.971	ug/l		100
70) Styrene	11.969	104	491792	51.260	ug/l		100
71) Bromoform	12.133	173	78794	49.849	ug/l	#	100
73) Isopropylbenzene	12.255	105	756905	50.657	ug/l		100
74) N-amyl acetate	12.066	43	209097	48.930	ug/l		100
75) 1,1,2,2-Tetrachloroethane	12.505	83	113234	49.277	ug/l		100
76) 1,2,3-Trichloropropane	12.554	75	167060	52.556	ug/l	#	100
77) Bromobenzene	12.530	156	161475	50.599	ug/l		100
78) n-propylbenzene	12.597	91	924664	51.306	ug/l		100
79) 2-Chlorotoluene	12.676	91	505684	51.058	ug/l		100
80) 1,3,5-Trimethylbenzene	12.737	105	615033	50.991	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.304	75	42692	47.331	ug/l		100
82) 4-Chlorotoluene	12.773	91	524270	51.464	ug/l		100
83) tert-Butylbenzene	12.999	119	546231	50.952	ug/l		100
84) 1,2,4-Trimethylbenzene	13.042	105	615550	51.410	ug/l		100
85) sec-Butylbenzene	13.176	105	824725	51.825	ug/l		100
86) p-Isopropyltoluene	13.292	119	688561	51.446	ug/l		100
87) 1,3-Dichlorobenzene	13.285	146	331536	50.890	ug/l		100
88) 1,4-Dichlorobenzene	13.365	146	315598	50.363	ug/l		100
89) n-Butylbenzene	13.615	91	661532	52.245	ug/l		100
90) Hexachloroethane	13.877	117	137225	50.791	ug/l		100
91) 1,2-Dichlorobenzene	13.657	146	276666	50.558	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.273	75	18039	48.682	ug/l		100
93) 1,2,4-Trichlorobenzene	14.919	180	162275	51.338	ug/l		100
94) Hexachlorobutadiene	15.023	225	90452	51.313	ug/l		100
95) Naphthalene	15.145	128	298075	49.692	ug/l		100
96) 1,2,3-Trichlorobenzene	15.328	180	135673	50.596	ug/l		100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022256.D
Acq On : 15 May 2025 11:02
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Quant Time: May 16 01:23:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:19:39 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

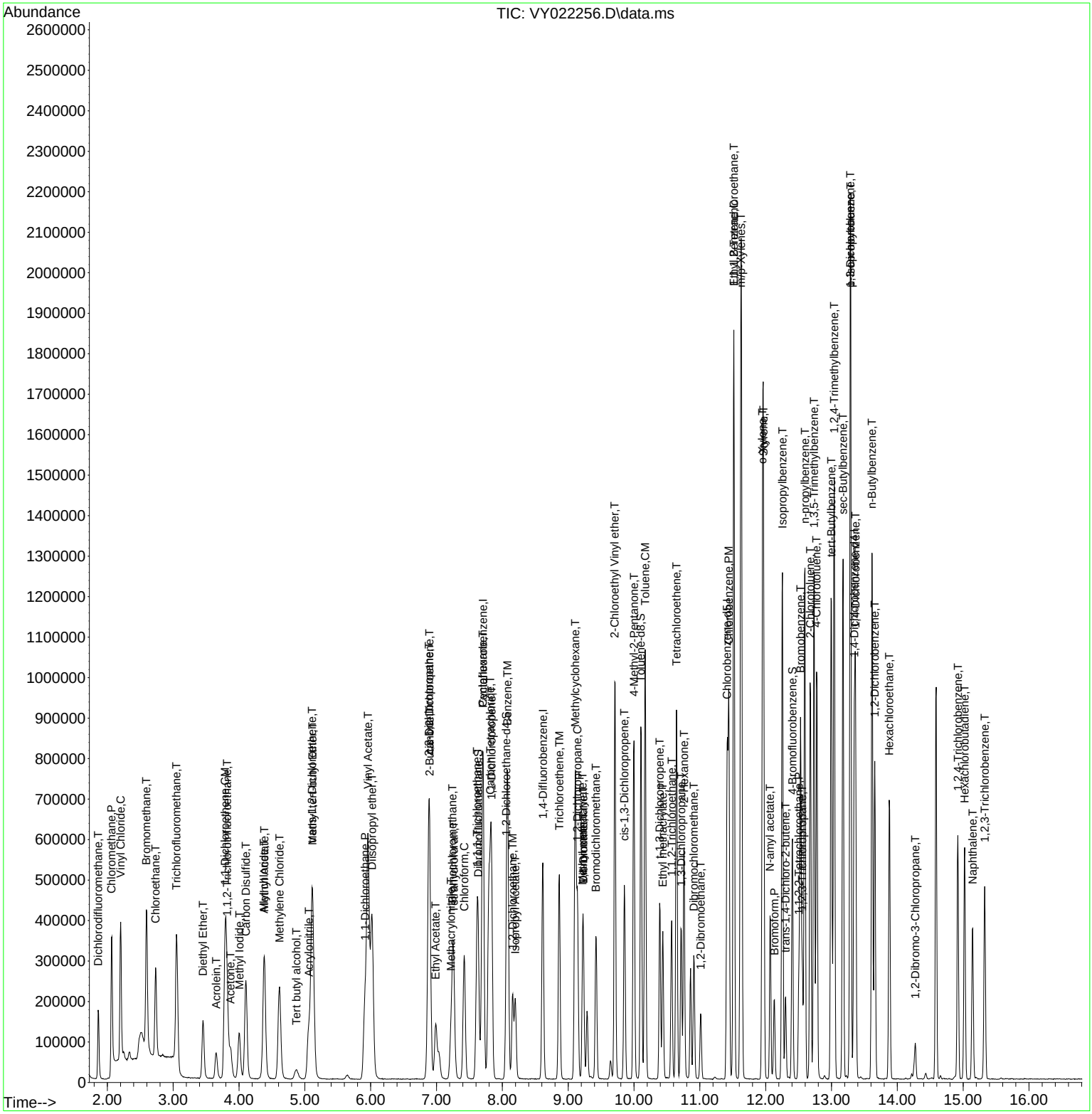
(#) = qualifier out of range (m) = manual integration (+) = signals summed

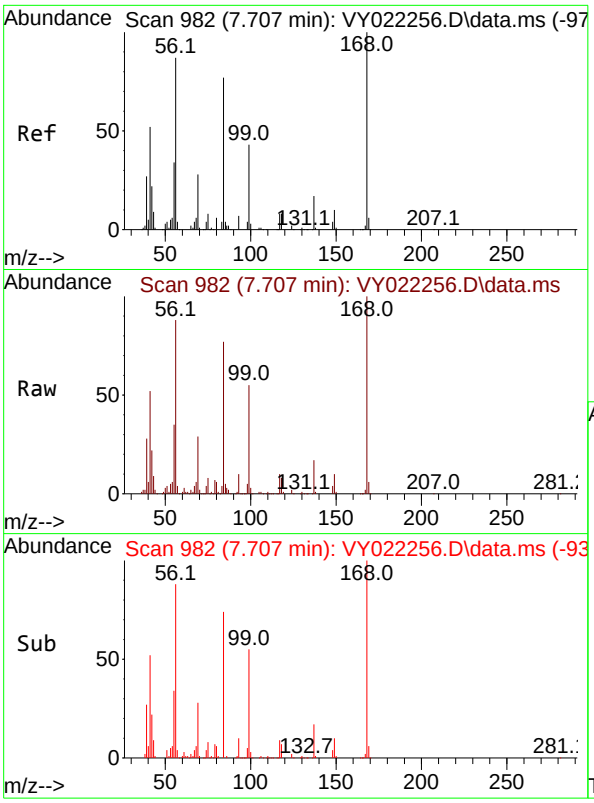
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022256.D
Acq On : 15 May 2025 11:02
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Quant Time: May 16 01:23:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:19:39 2025
Response via : Initial Calibration



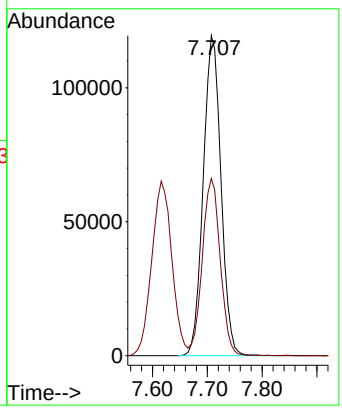


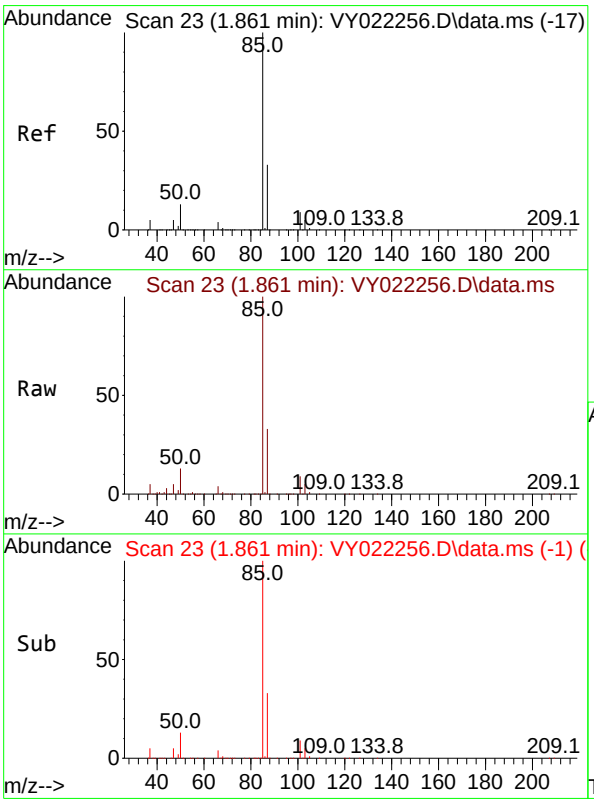
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion:168 Resp: 267598

Ion	Ratio	Lower	Upper
168	100		
99	55.3	44.2	66.4

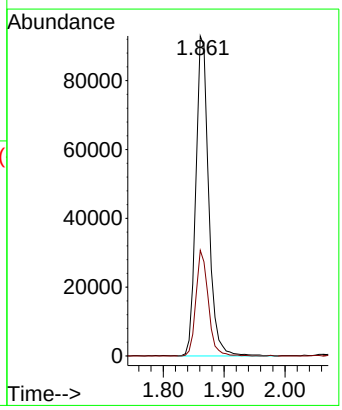


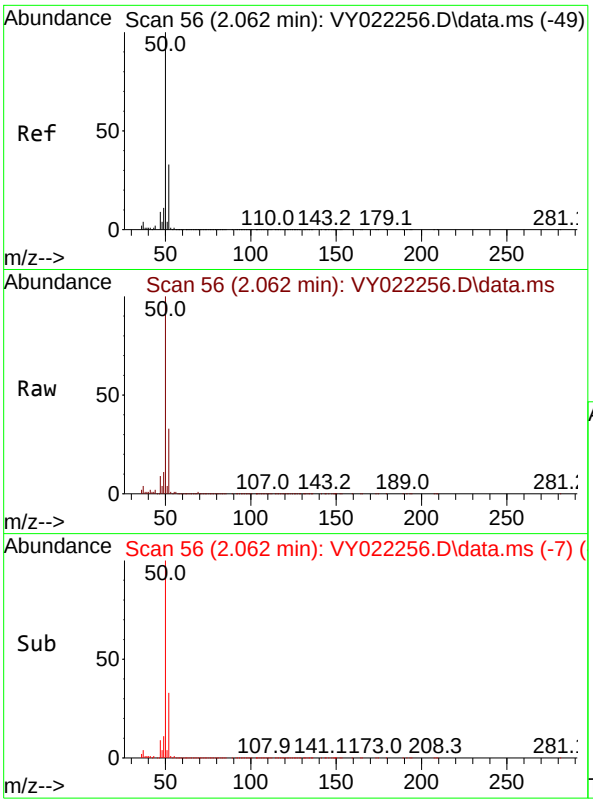


#2
Dichlorodifluoromethane
Concen: 48.608 ug/l
RT: 1.861 min Scan# 23
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 85 Resp: 135726

Ion	Ratio	Lower	Upper
85	100		
87	33.0	16.5	49.5



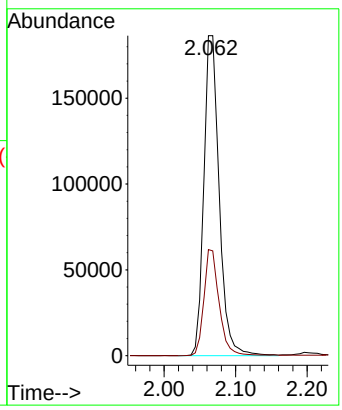


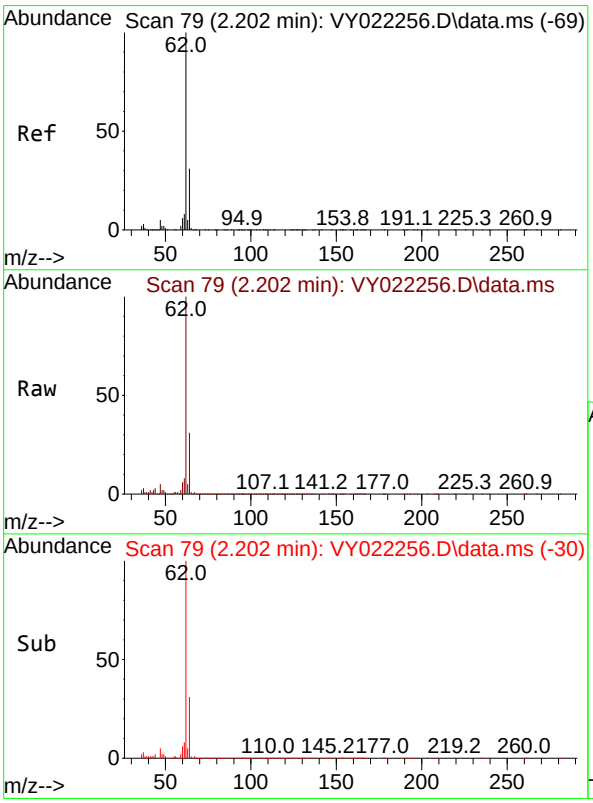
#3
Chloromethane
Concen: 47.481 ug/l
RT: 2.062 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 50 Resp: 278892

Ion	Ratio	Lower	Upper
50	100		
52	33.1	26.5	39.7

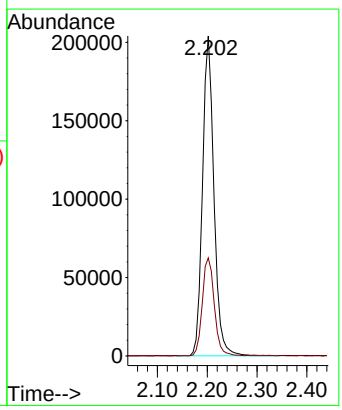


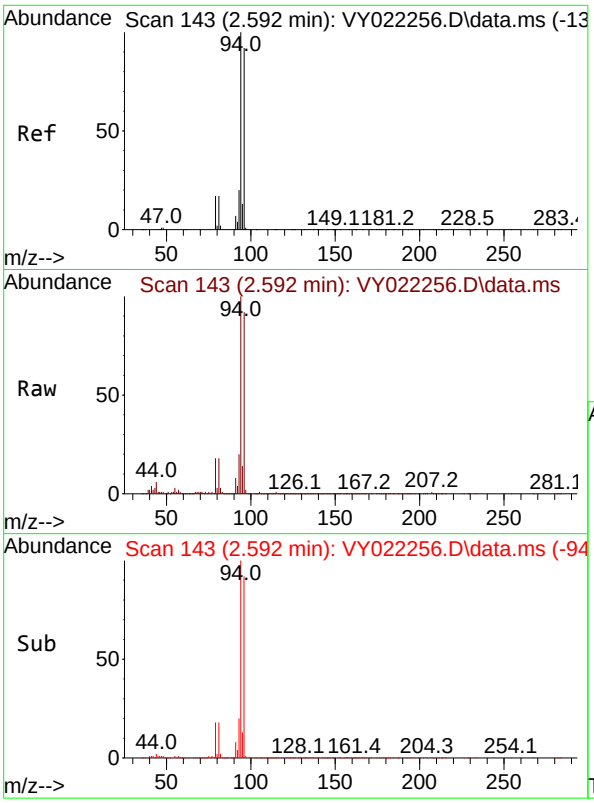


#4
Vinyl Chloride
Concen: 49.341 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 62 Resp: 323792

Ion	Ratio	Lower	Upper
62	100		
64	30.6	24.5	36.7



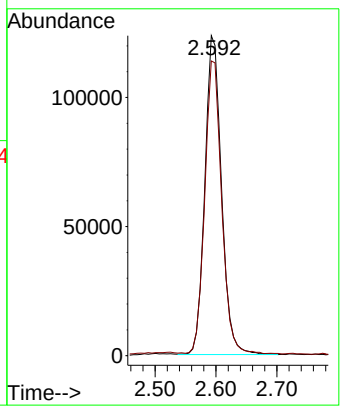


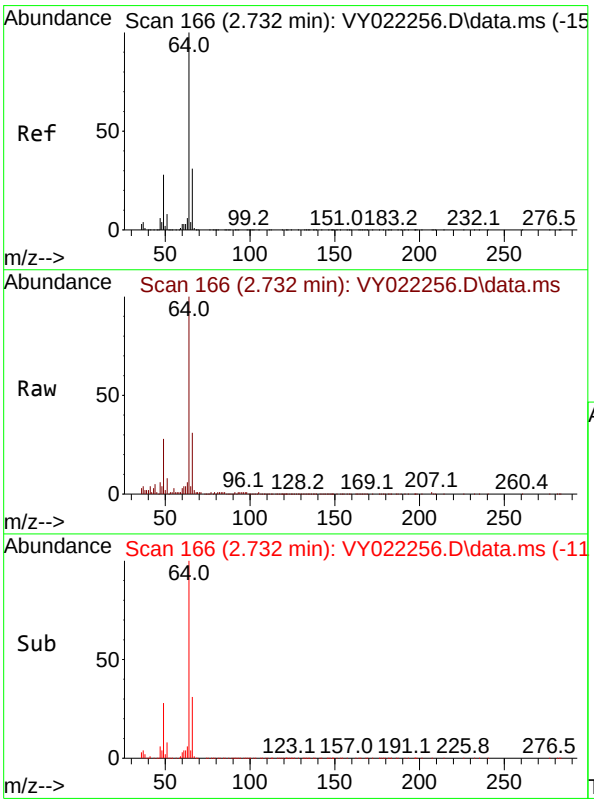
#5
Bromomethane
Concen: 43.941 ug/l
RT: 2.592 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 94 Resp: 234736

Ion	Ratio	Lower	Upper
94	100		
96	91.7	73.4	110.0

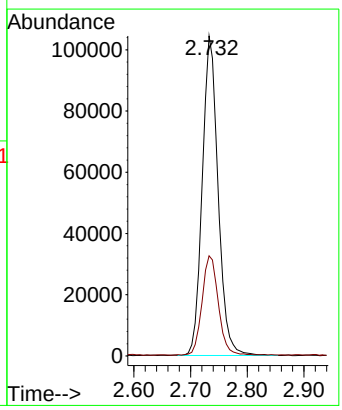


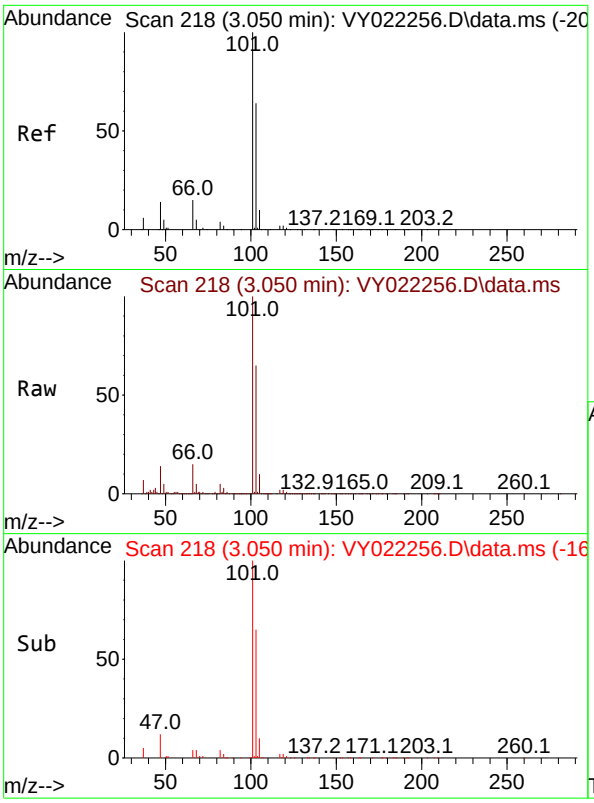


#6
Chloroethane
Concen: 49.569 ug/l
RT: 2.732 min Scan# 166
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 64 Resp: 202370

Ion	Ratio	Lower	Upper
64	100		
66	31.0	24.8	37.2



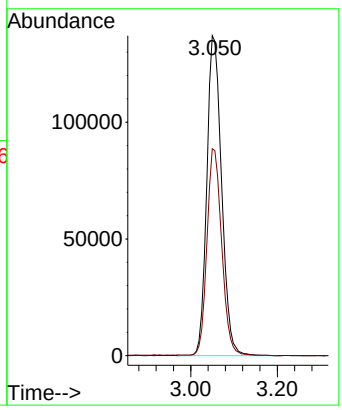


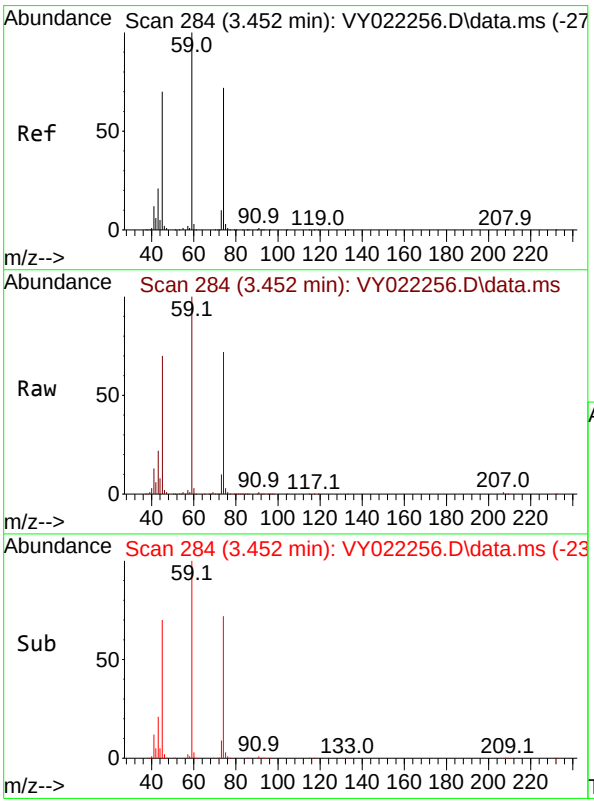
#7
Trichlorofluoromethane
Concen: 48.898 ug/l
RT: 3.050 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion:101 Resp: 324887

Ion	Ratio	Lower	Upper
101	100		
103	64.6	51.7	77.5

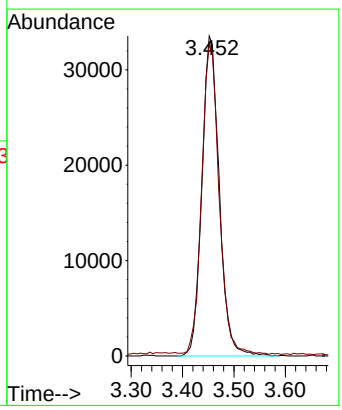


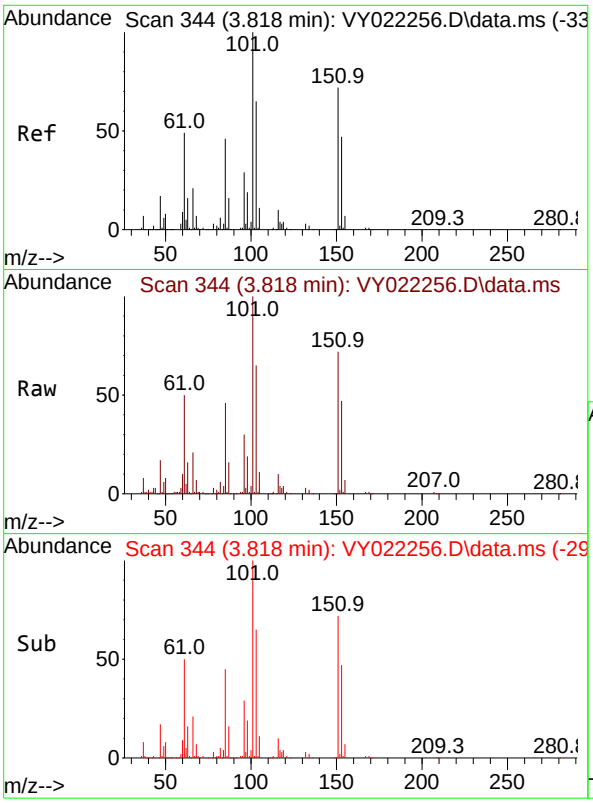


#8
Diethyl Ether
Concen: 49.338 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 74 Resp: 78670

Ion	Ratio	Lower	Upper
74	100		
45	97.2	48.6	145.8



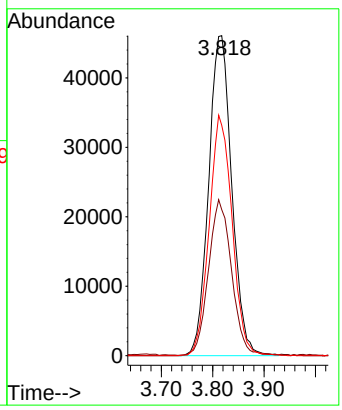


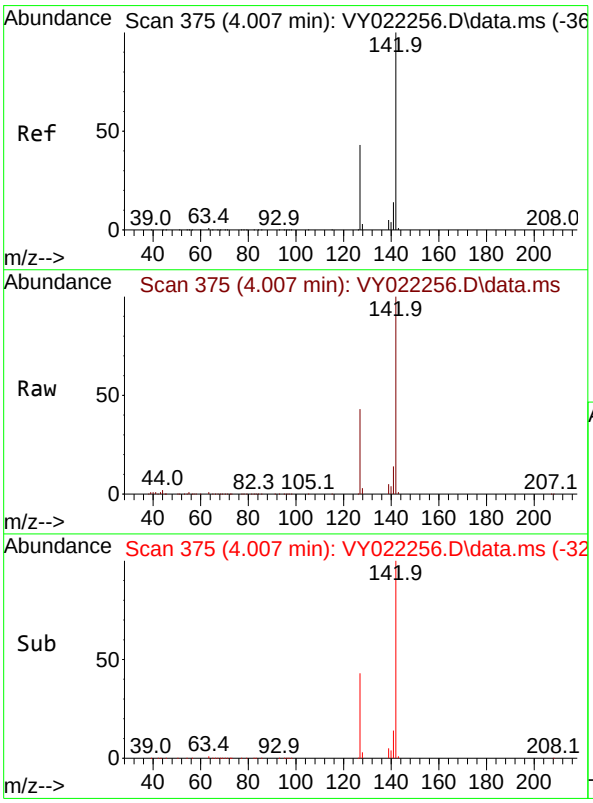
#9
1,1,2-Trichlorotrifluoroethane
Concen: 49.930 ug/l
RT: 3.818 min Scan# 34
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion:101 Resp: 144018

Ion	Ratio	Lower	Upper
101	100		
85	48.3	38.6	58.0
151	74.6	59.7	89.5

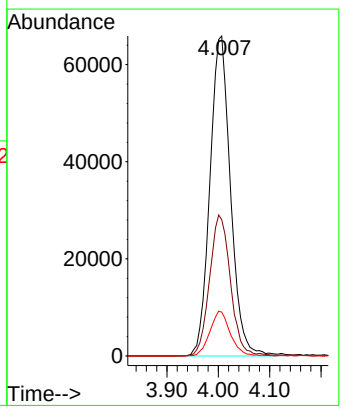


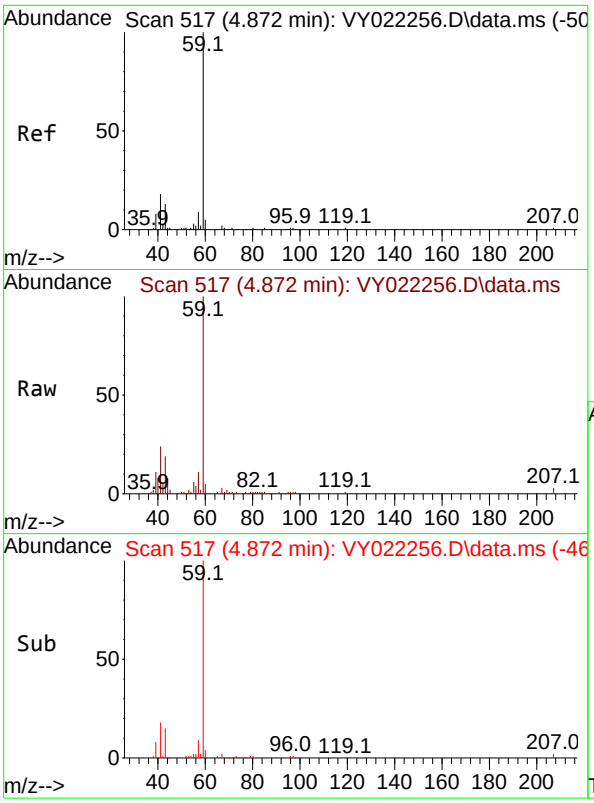


#10
Methyl Iodide
Concen: 55.091 ug/l
RT: 4.007 min Scan# 375
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion:142 Resp: 183918

Ion	Ratio	Lower	Upper
142	100		
127	44.6	35.7	53.5
141	13.9	11.1	16.7



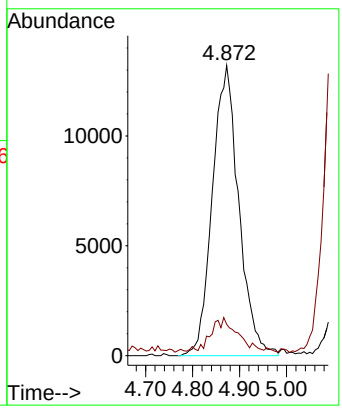


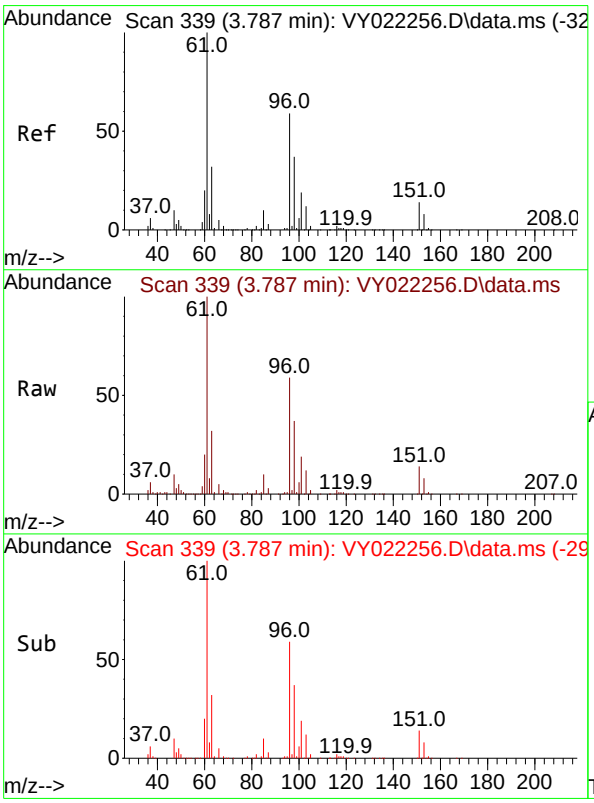
#11
Tert butyl alcohol
Concen: 231.036 ug/l
RT: 4.872 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 59 Resp: 51598

Ion	Ratio	Lower	Upper
59	100		
57	0.0	0.0	0.0

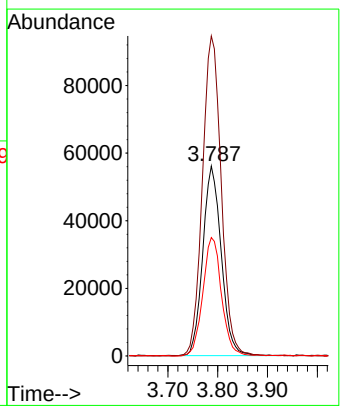


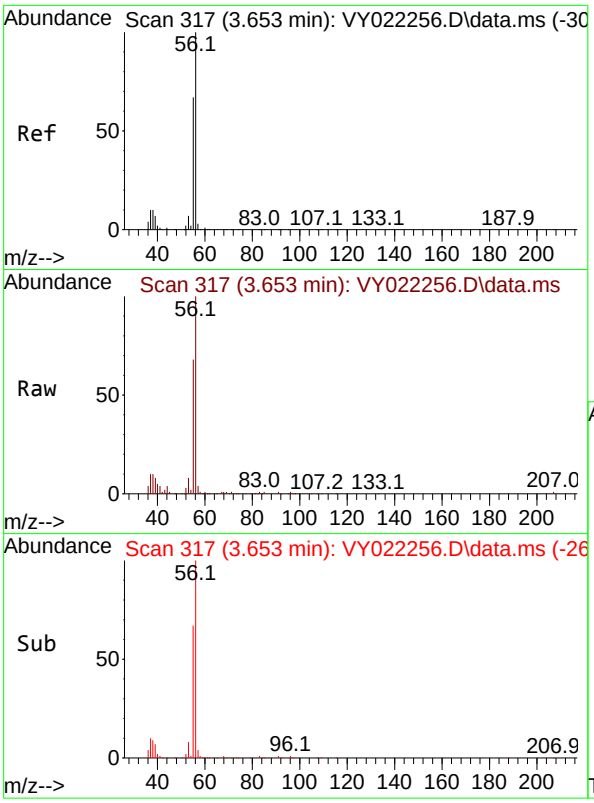


#12
1,1-Dichloroethene
Concen: 50.344 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 96 Resp: 144103

Ion	Ratio	Lower	Upper
96	100		
61	168.6	134.9	202.3
98	62.4	49.9	74.9



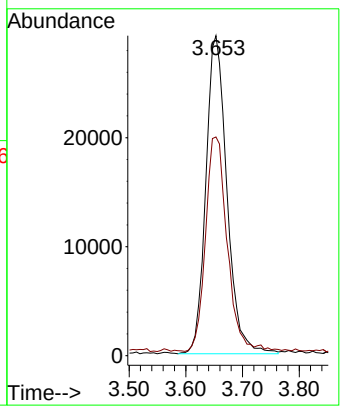


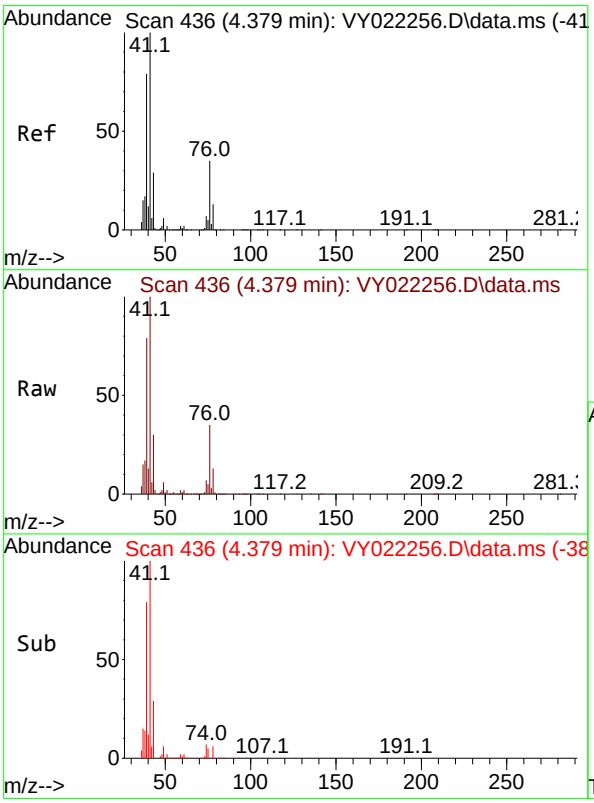
#13
Acrolein
Concen: 231.010 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 56 Resp: 75423

Ion	Ratio	Lower	Upper
56	100		
55	69.5	55.6	83.4

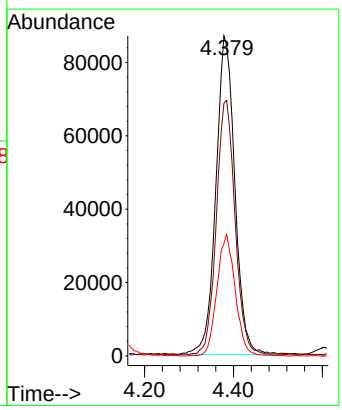


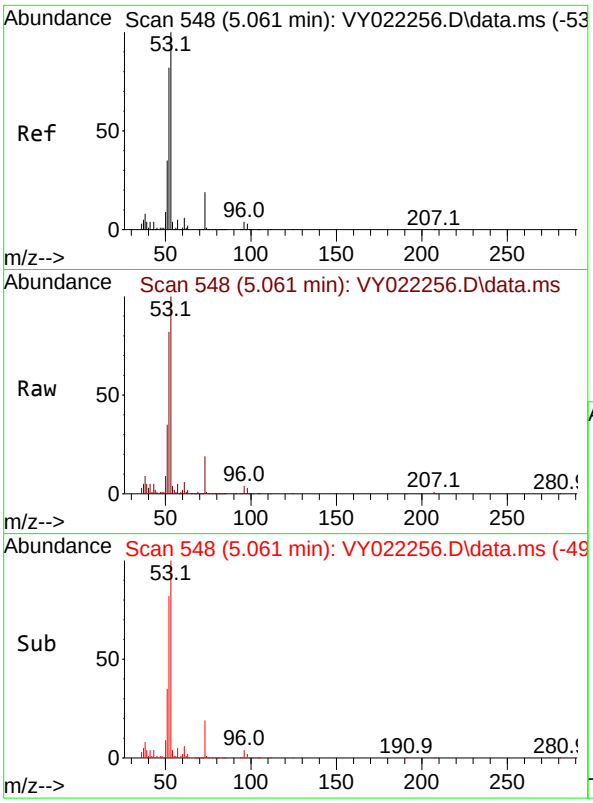


#14
Allyl chloride
Concen: 51.106 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 41 Resp: 256499

Ion	Ratio	Lower	Upper
41	100		
39	79.2	63.4	95.0
76	36.9	29.5	44.3



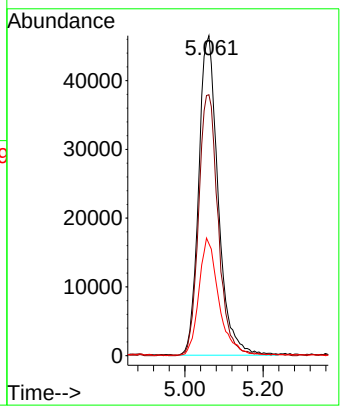


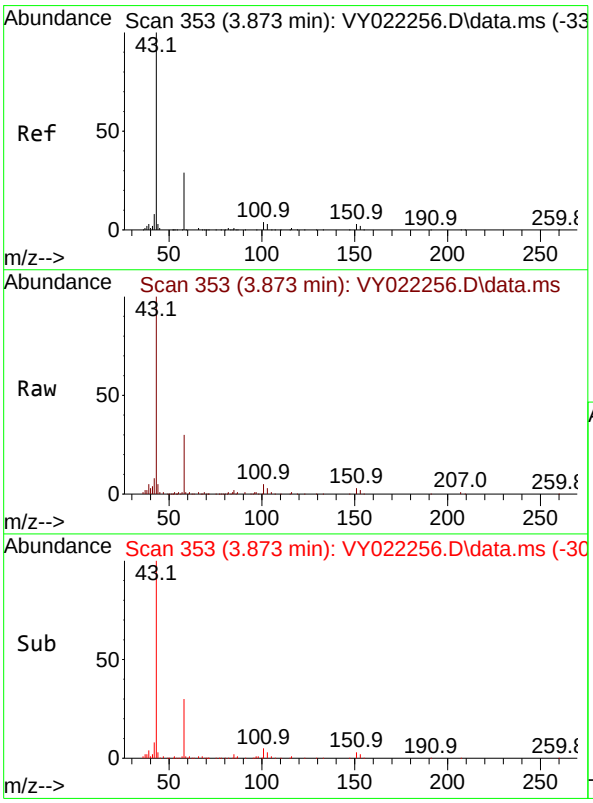
#15
Acrylonitrile
Concen: 244.283 ug/l
RT: 5.061 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 53 Resp: 160496

Ion	Ratio	Lower	Upper
53	100		
52	82.6	66.1	99.1
51	37.5	30.0	45.0

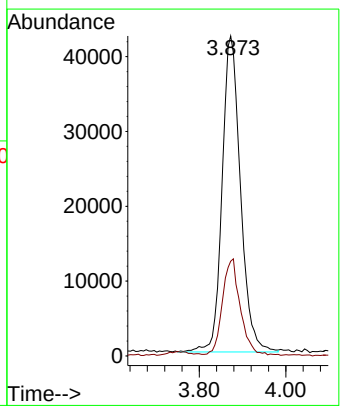


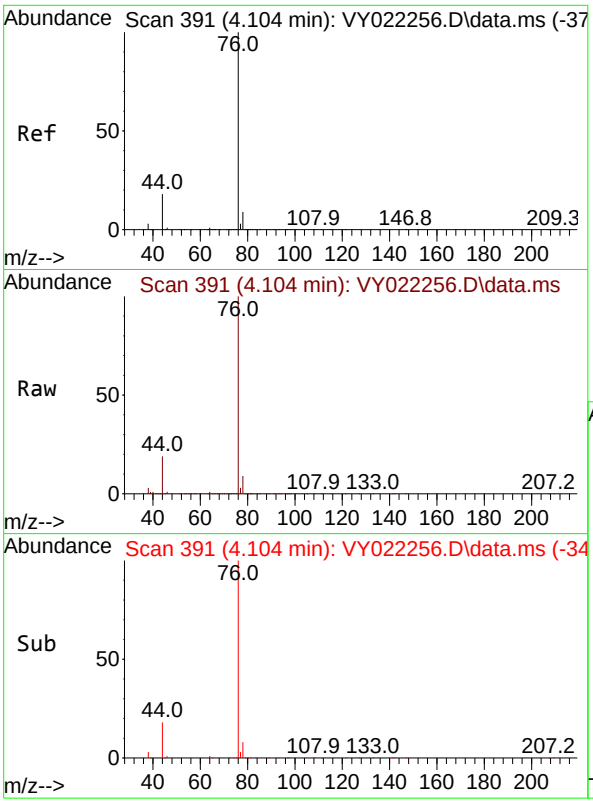


#16
Acetone
Concen: 226.888 ug/l
RT: 3.873 min Scan# 353
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 43 Resp: 124421

Ion	Ratio	Lower	Upper
43	100		
58	29.5	23.6	35.4



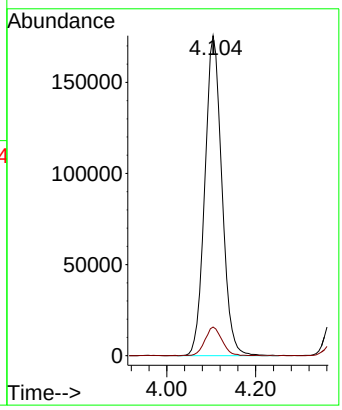


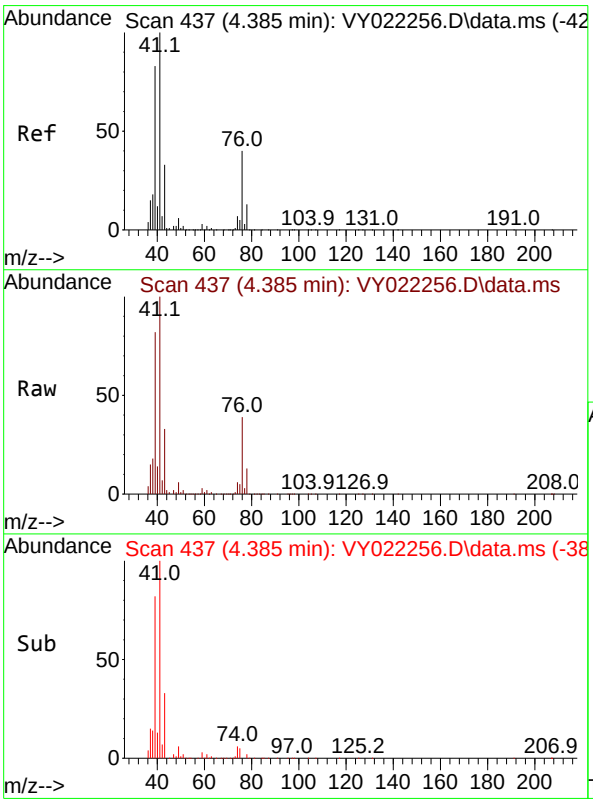
#17
Carbon Disulfide
Concen: 50.244 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 76 Resp: 468979

Ion	Ratio	Lower	Upper
76	100		
78	9.0	7.2	10.8

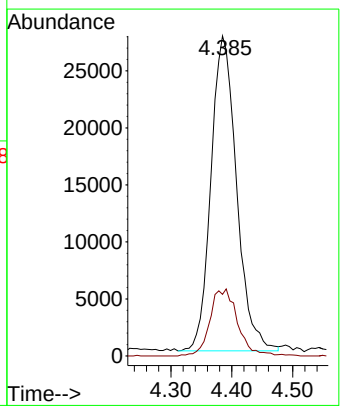


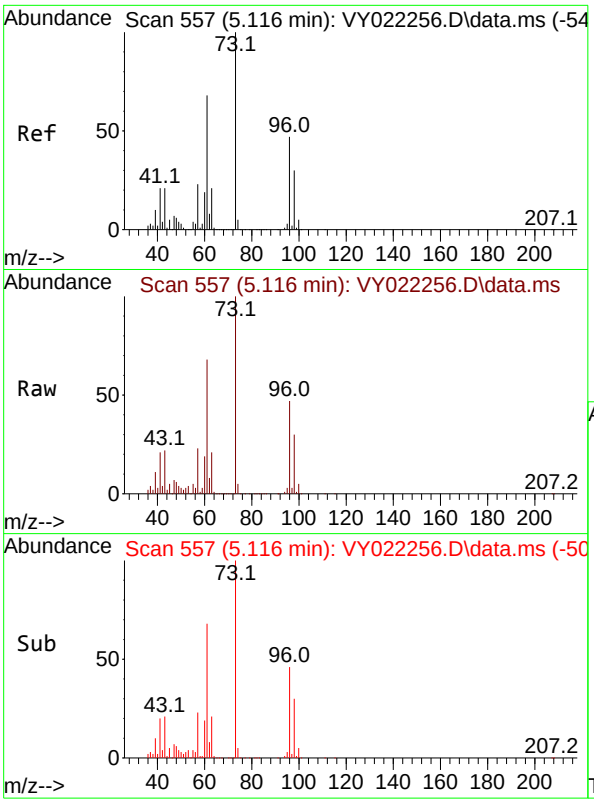


#18
Methyl Acetate
Concen: 48.436 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 43 Resp: 80820

Ion	Ratio	Lower	Upper
43	100		
74	22.8	18.2	27.4



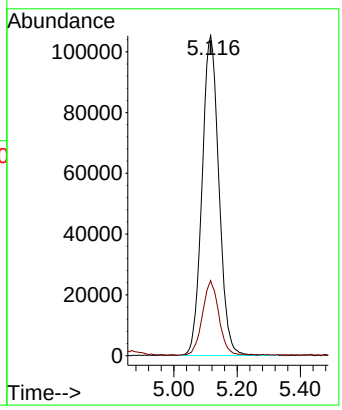


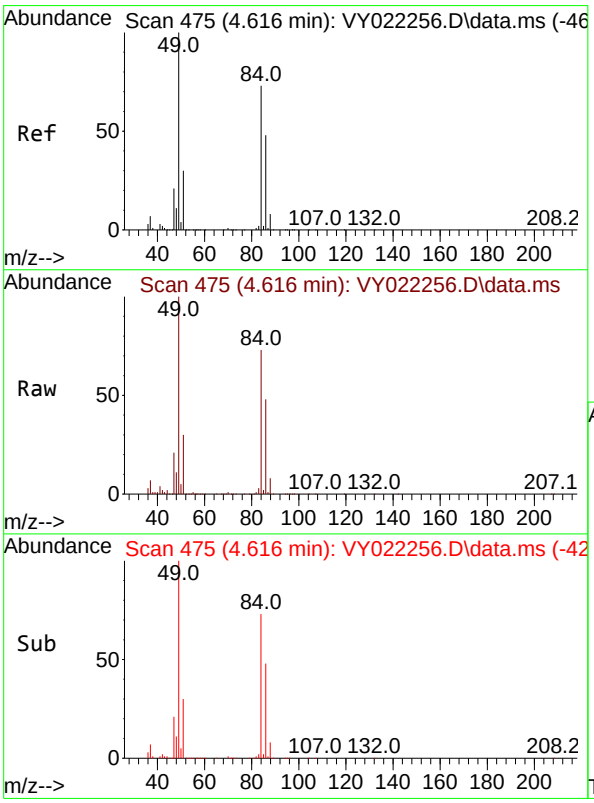
#19
Methyl tert-butyl Ether
Concen: 49.466 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 73 Resp: 390412

Ion	Ratio	Lower	Upper
73	100		
57	23.3	18.6	28.0

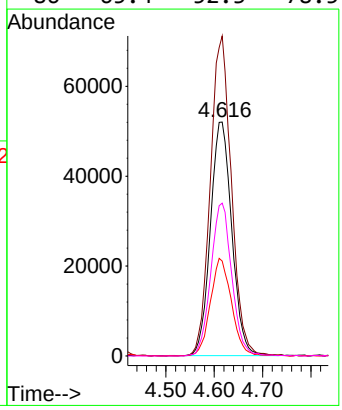


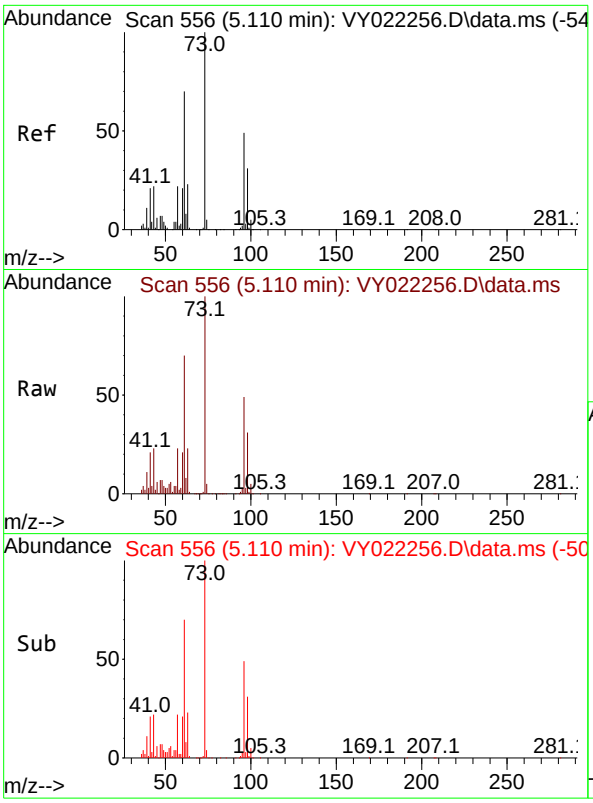


#20
Methylene Chloride
Concen: 45.087 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 84 Resp: 159764

Ion	Ratio	Lower	Upper
84	100		
49	137.0	109.6	164.4
51	40.5	32.4	48.6
86	65.4	52.3	78.5



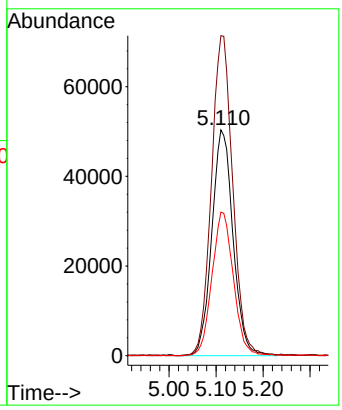


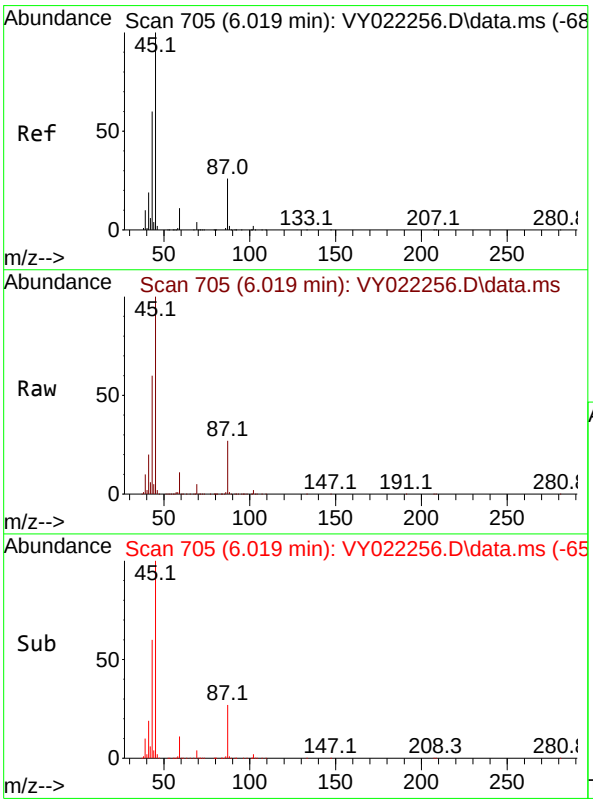
#21
trans-1,2-Dichloroethene
Concen: 50.181 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 96 Resp: 158544

Ion	Ratio	Lower	Upper
96	100		
61	141.7	113.4	170.0
98	63.6	50.9	76.3

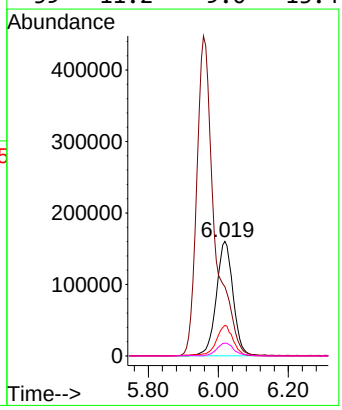


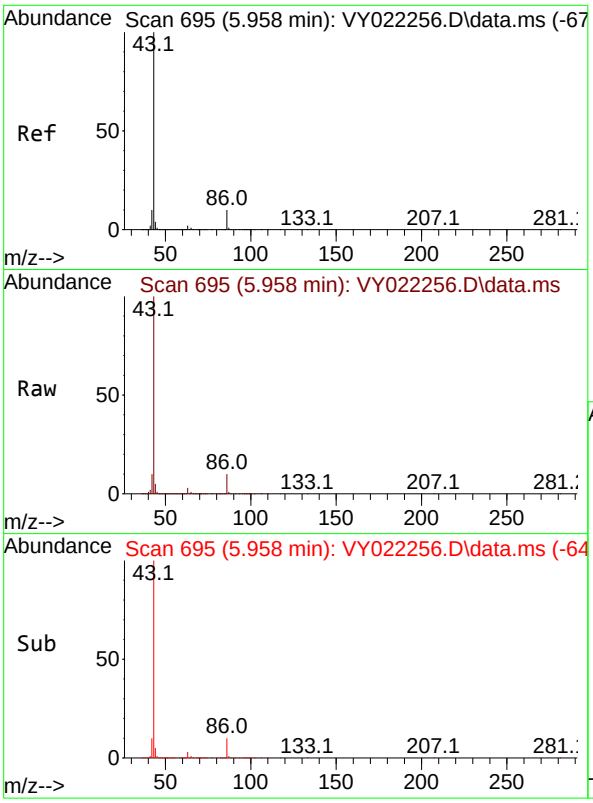


#22
Diisopropyl ether
Concen: 50.152 ug/l
RT: 6.019 min Scan# 705
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 45 Resp: 531560

Ion	Ratio	Lower	Upper
45	100		
43	60.2	48.2	72.2
87	26.7	21.4	32.0
59	11.2	9.0	13.4



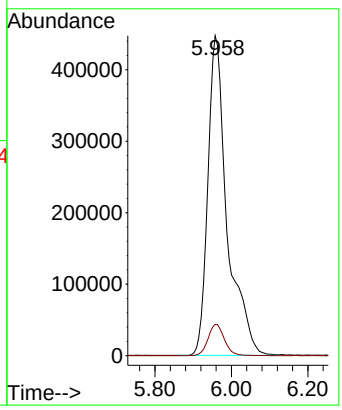


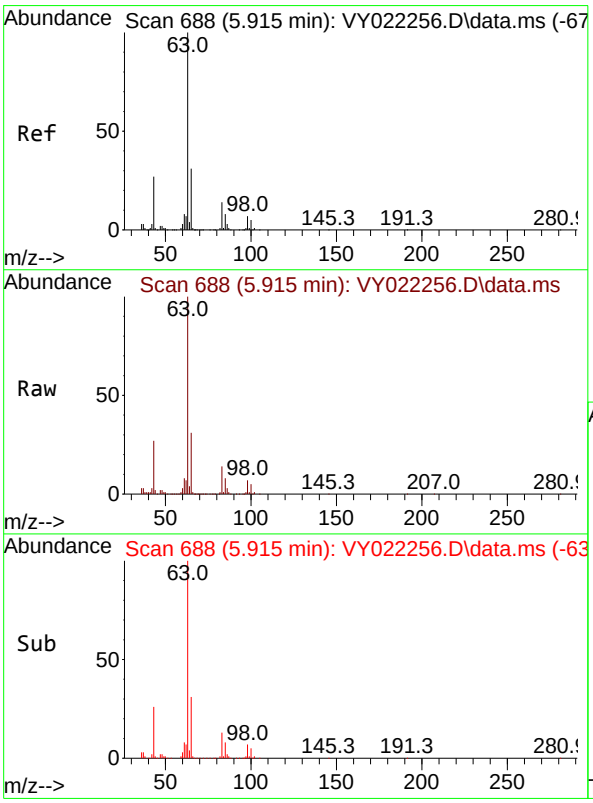
#23
Vinyl Acetate
Concen: 245.223 ug/l
RT: 5.958 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 1570214

Ion	Ratio	Lower	Upper
43	100		
86	9.8	7.8	11.8

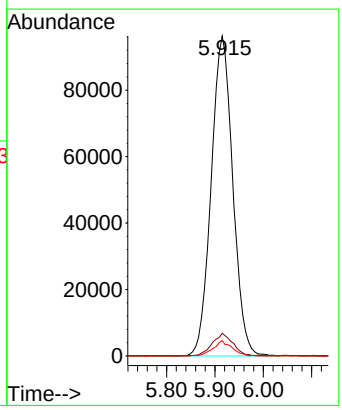


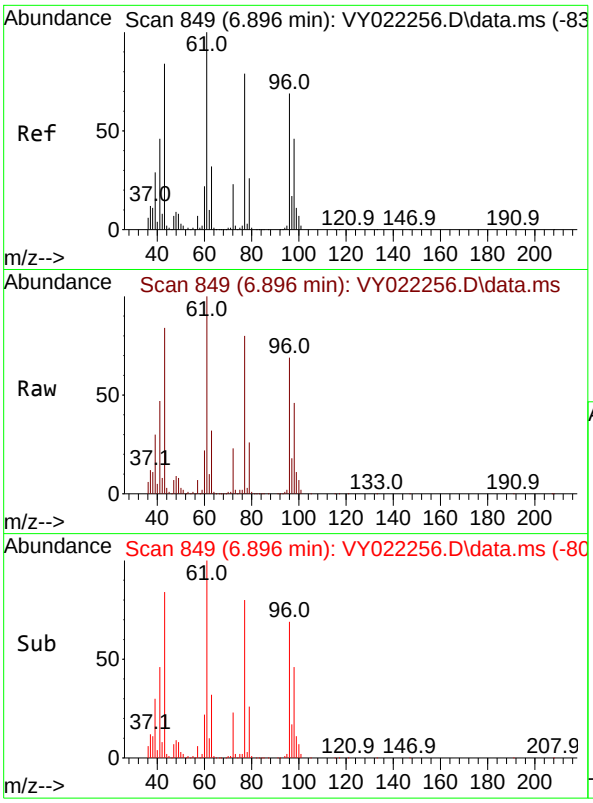


#24
1,1-Dichloroethane
Concen: 50.465 ug/l
RT: 5.915 min Scan# 688
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 63 Resp: 298823

Ion	Ratio	Lower	Upper
63	100		
98	7.0	3.5	10.5
100	4.8	2.4	7.2



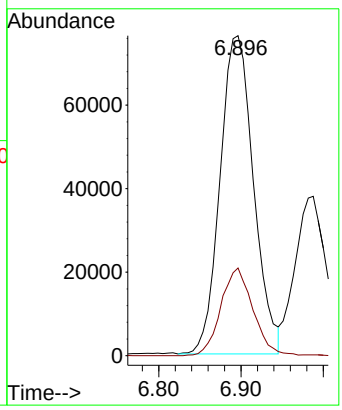


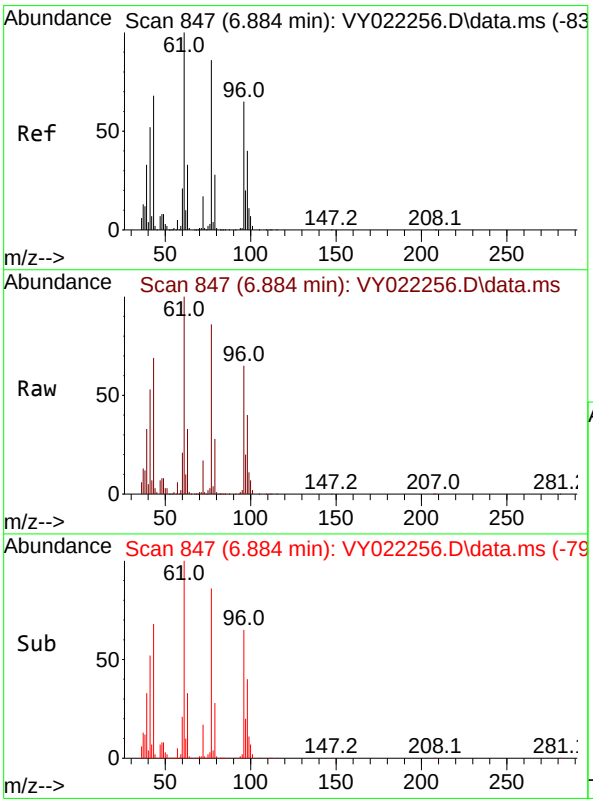
#25
2-Butanone
Concen: 235.291 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 215828

Ion	Ratio	Lower	Upper
43	100		
72	27.6	22.1	33.1

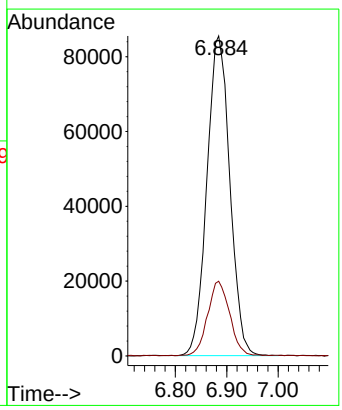


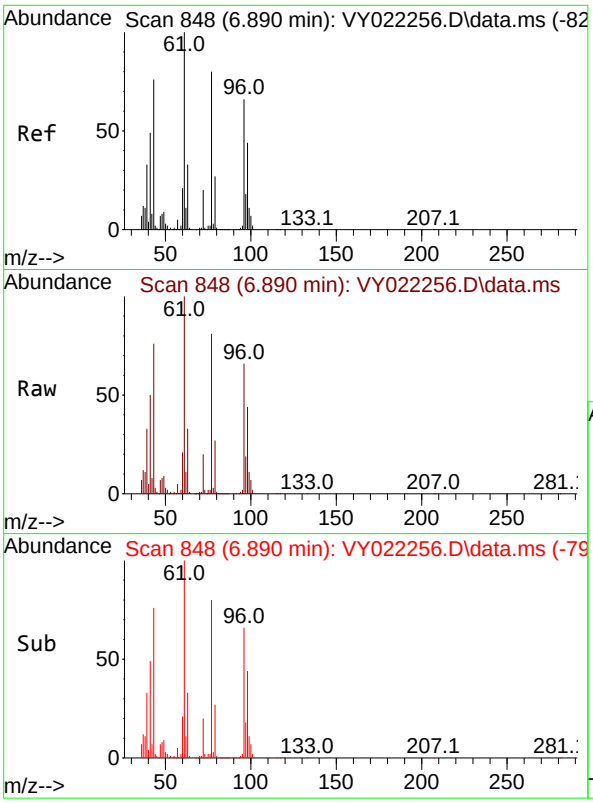


#26
2,2-Dichloropropane
Concen: 50.153 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 77 Resp: 264141

Ion	Ratio	Lower	Upper
77	100		
97	22.3	11.2	33.5



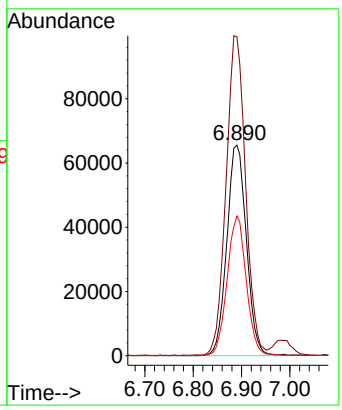


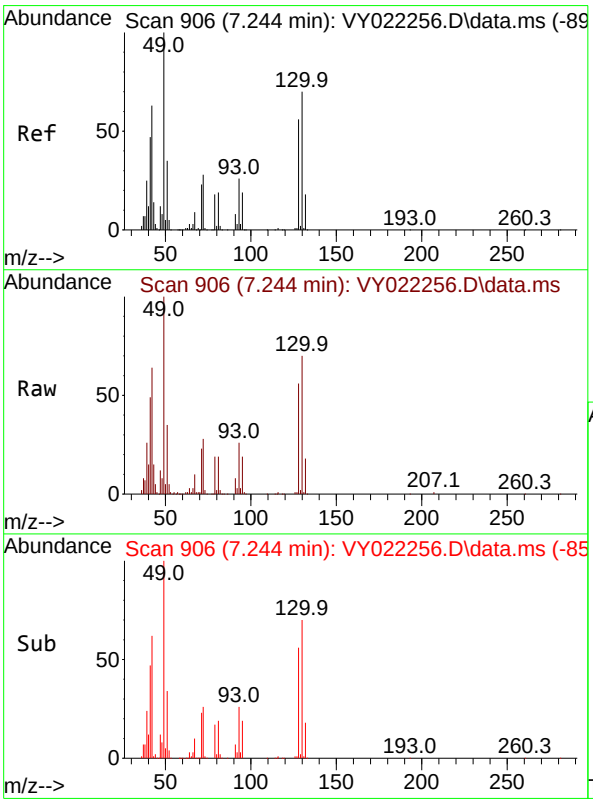
#27
cis-1,2-Dichloroethene
Concen: 50.698 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 96 Resp: 184842

Ion	Ratio	Lower	Upper
96	100		
61	151.3	0.0	302.6
98	64.4	0.0	128.8

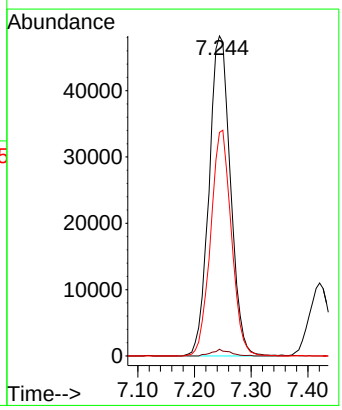


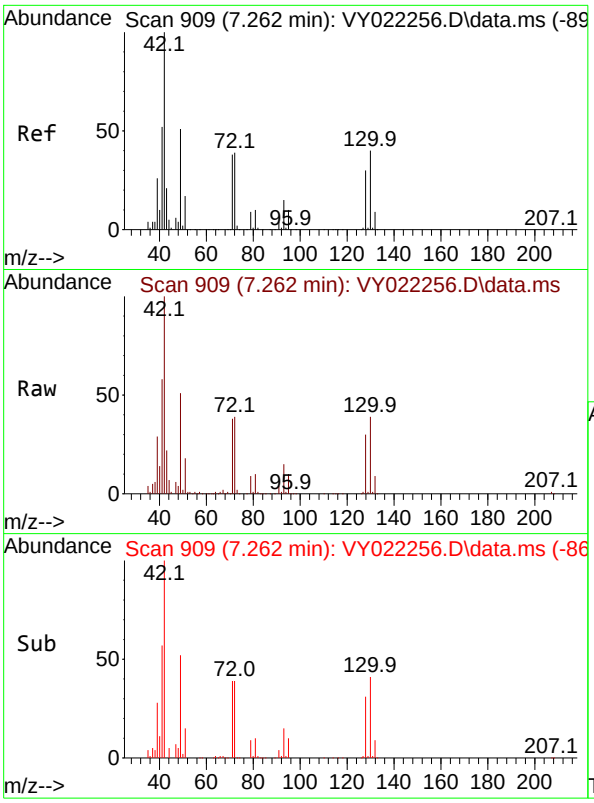


#28
Bromochloromethane
Concen: 50.100 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 49 Resp: 126541

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	3.6
130	68.4	54.7	82.1



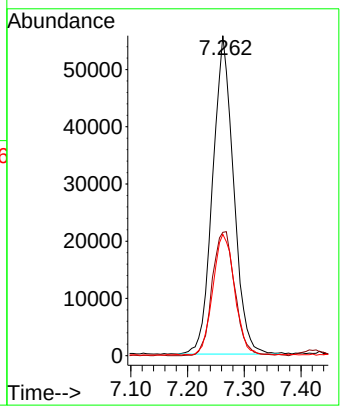


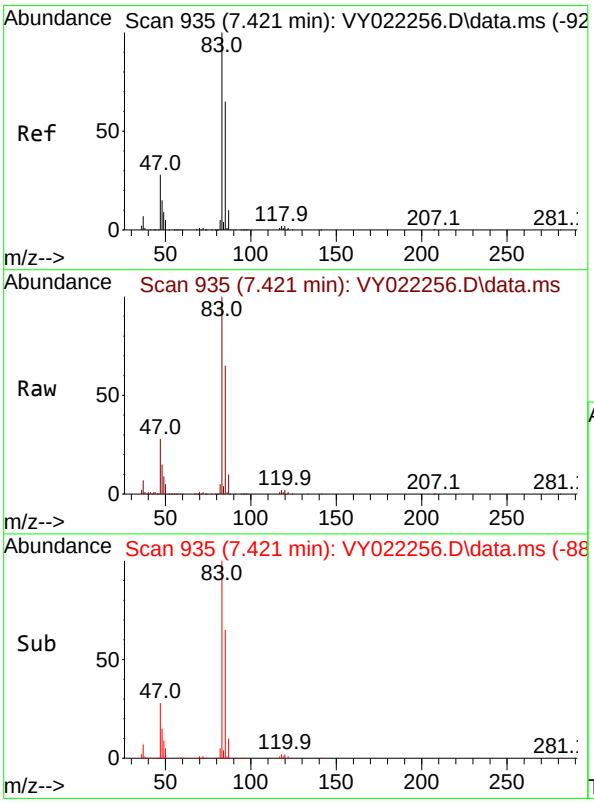
#29
Tetrahydrofuran
Concen: 241.931 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 42 Resp: 142772

Ion	Ratio	Lower	Upper
42	100		
72	42.2	33.8	50.6
71	39.4	31.5	47.3

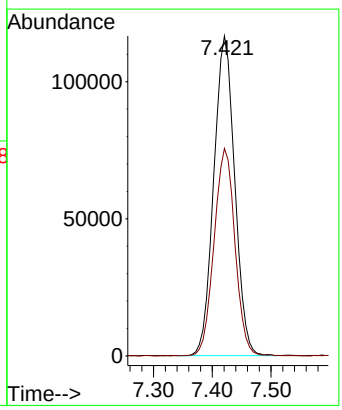


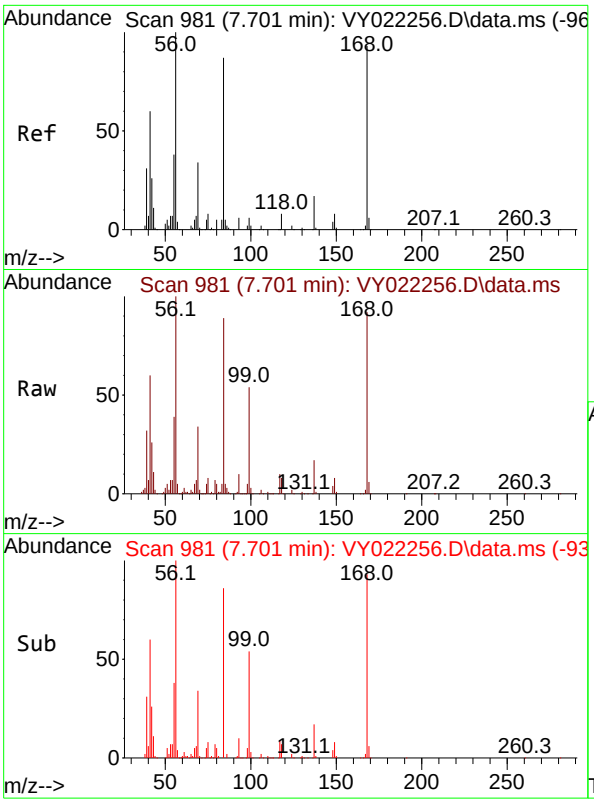


#30
Chloroform
Concen: 50.831 ug/l
RT: 7.421 min Scan# 935
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 83 Resp: 288708

Ion	Ratio	Lower	Upper
83	100		
85	64.8	51.8	77.8



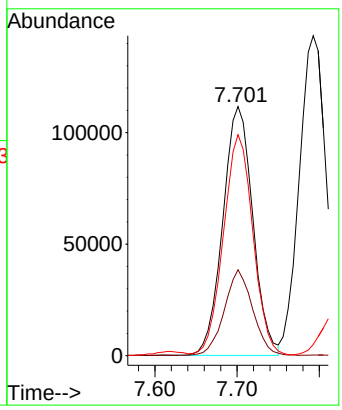


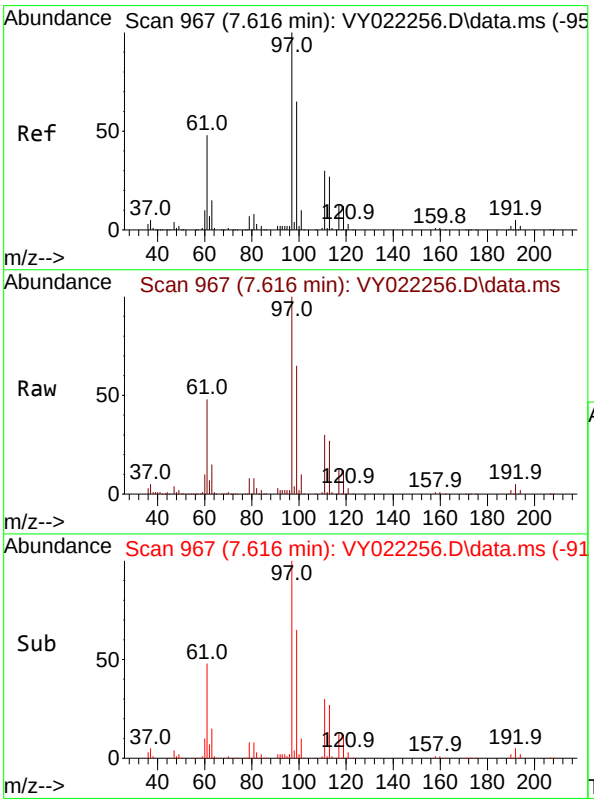
#31
Cyclohexane
Concen: 47.728 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 56 Resp: 282375

Ion	Ratio	Lower	Upper
56	100		
69	34.3	27.4	41.2
84	87.5	70.0	105.0

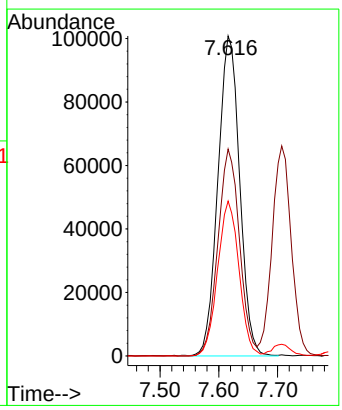


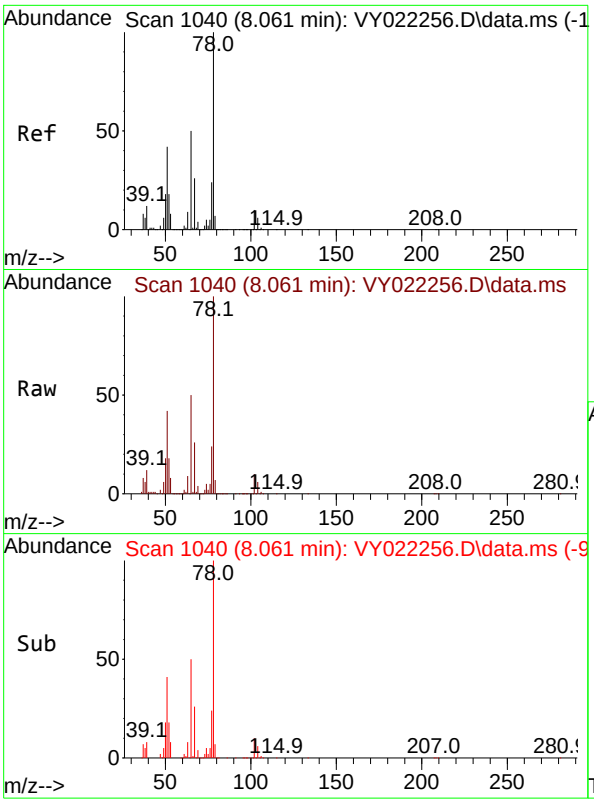


#32
1,1,1-Trichloroethane
Concen: 49.777 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 97 Resp: 259382

Ion	Ratio	Lower	Upper
97	100		
99	64.2	51.4	77.0
61	47.6	38.1	57.1



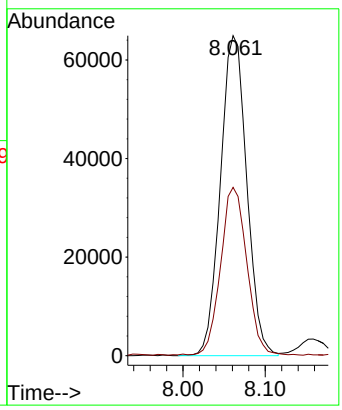


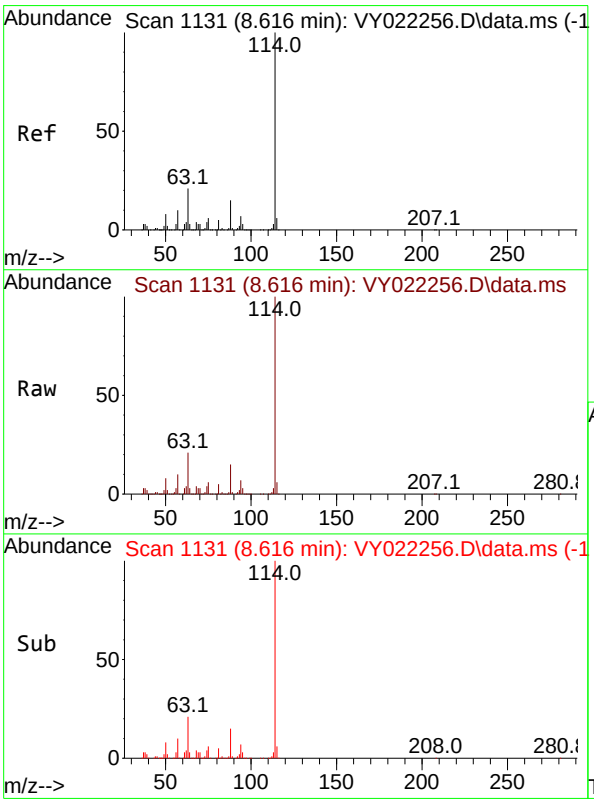
#33
1,2-Dichloroethane-d4
Concen: 49.481 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 65 Resp: 144713

Ion	Ratio	Lower	Upper
65	100		
67	52.3	0.0	104.6

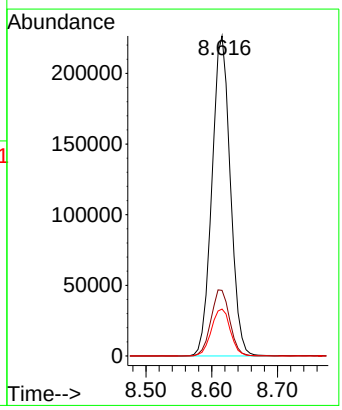


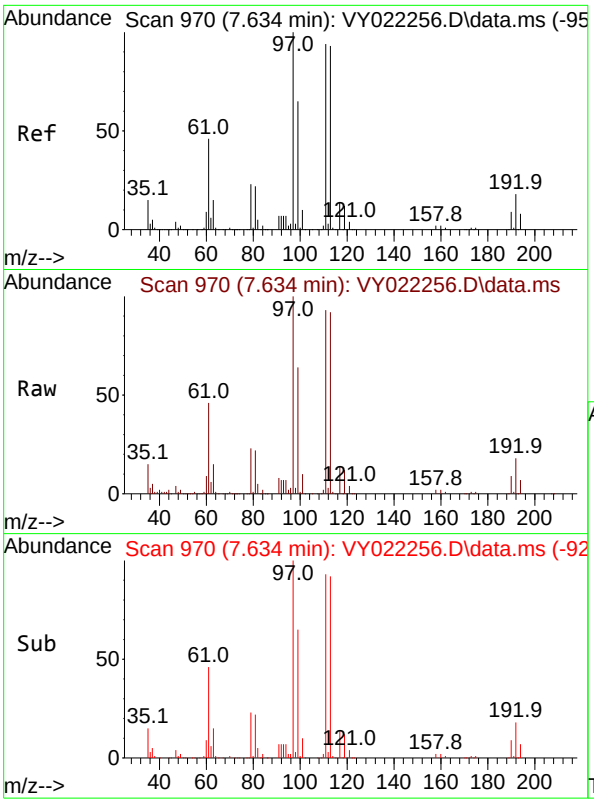


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion:114 Resp: 439323

Ion	Ratio	Lower	Upper
114	100		
63	20.5	0.0	41.0
88	14.7	0.0	29.4



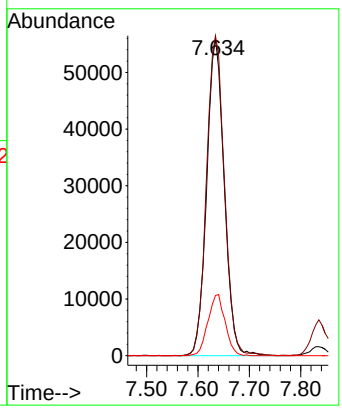


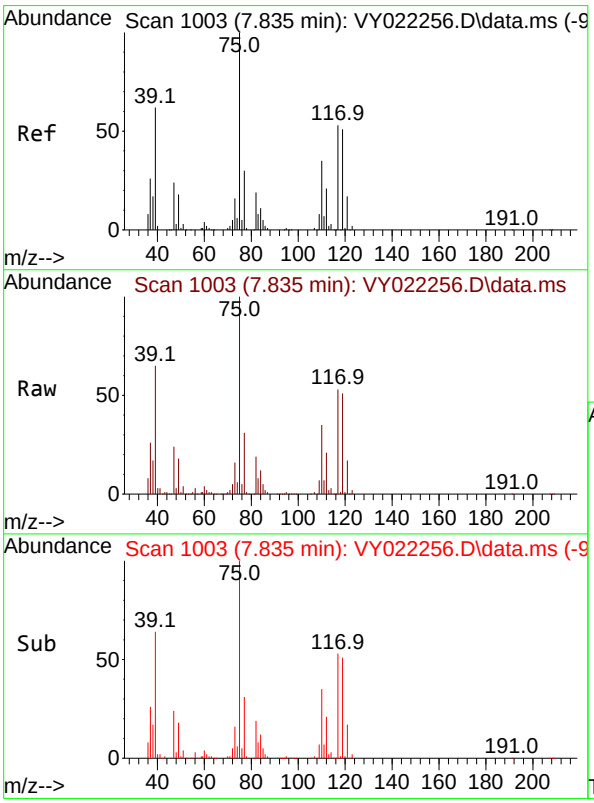
#35
Dibromofluoromethane
Concen: 50.495 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion:113 Resp: 132404

Ion	Ratio	Lower	Upper
113	100		
111	103.2	82.6	123.8
192	19.0	15.2	22.8

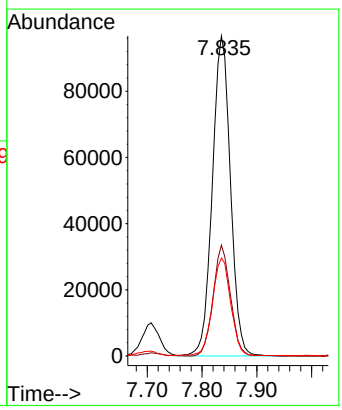


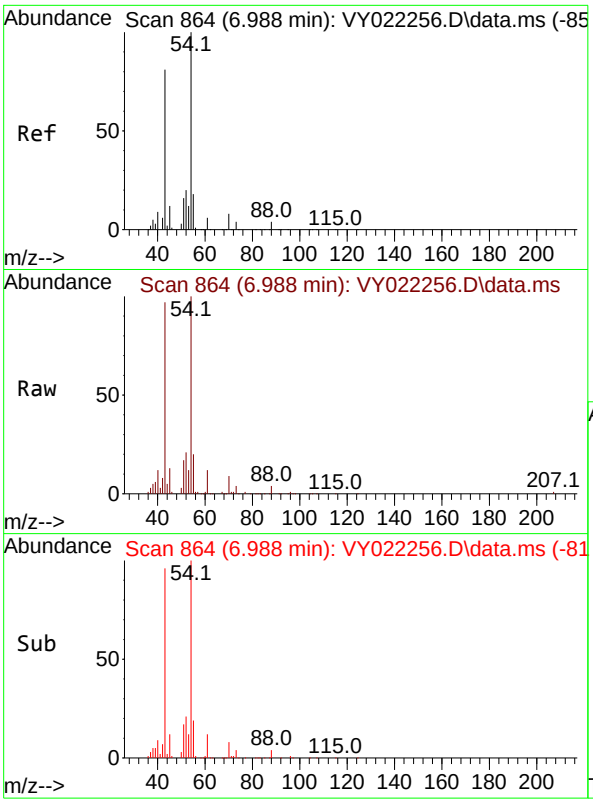


#36
1,1-Dichloropropene
Concen: 51.388 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 75 Resp: 221943

Ion	Ratio	Lower	Upper
75	100		
110	33.2	16.6	49.8
77	30.8	24.6	37.0



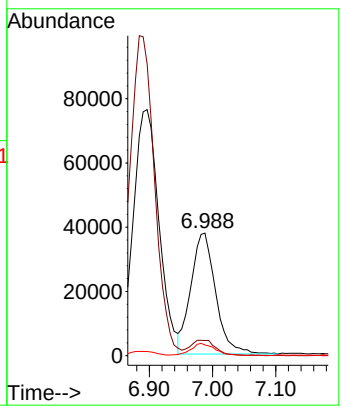


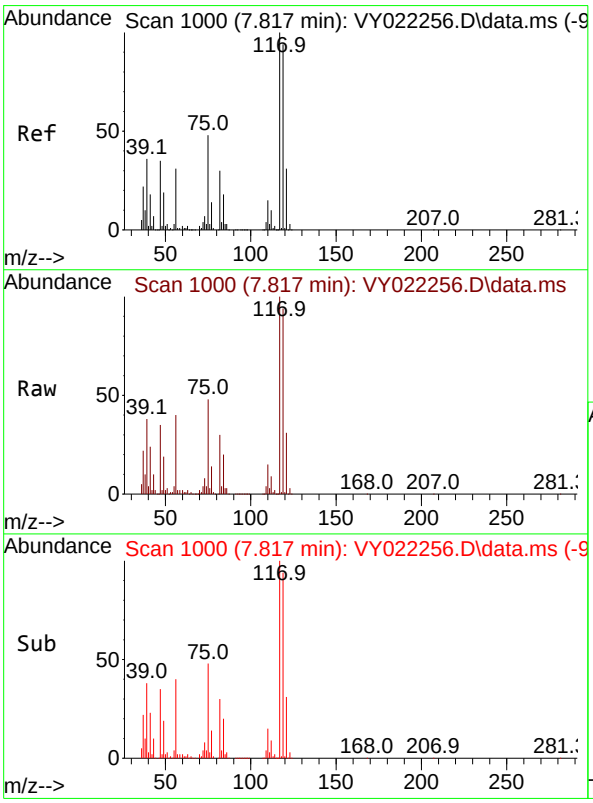
#37
Ethyl Acetate
Concen: 49.529 ug/l
RT: 6.988 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 102924

Ion	Ratio	Lower	Upper
43	100		
61	12.7	10.2	15.2
70	9.5	7.6	11.4

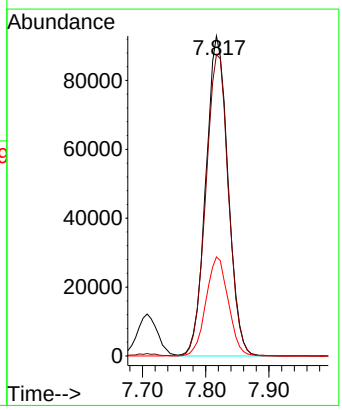


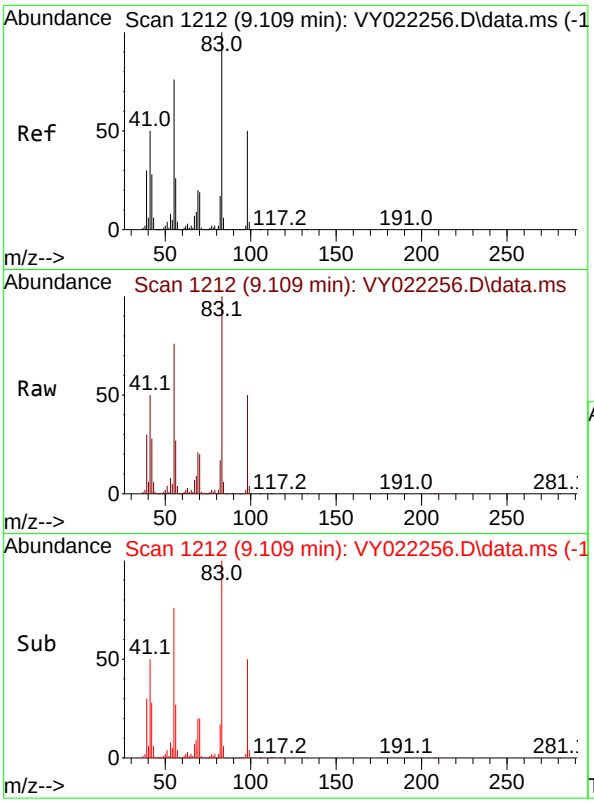


#38
Carbon Tetrachloride
Concen: 50.754 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion:117 Resp: 226903

Ion	Ratio	Lower	Upper
117	100		
119	94.1	75.3	112.9
121	30.9	24.7	37.1



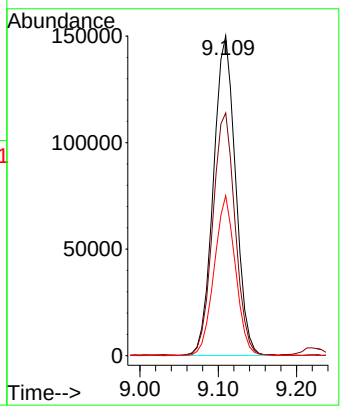


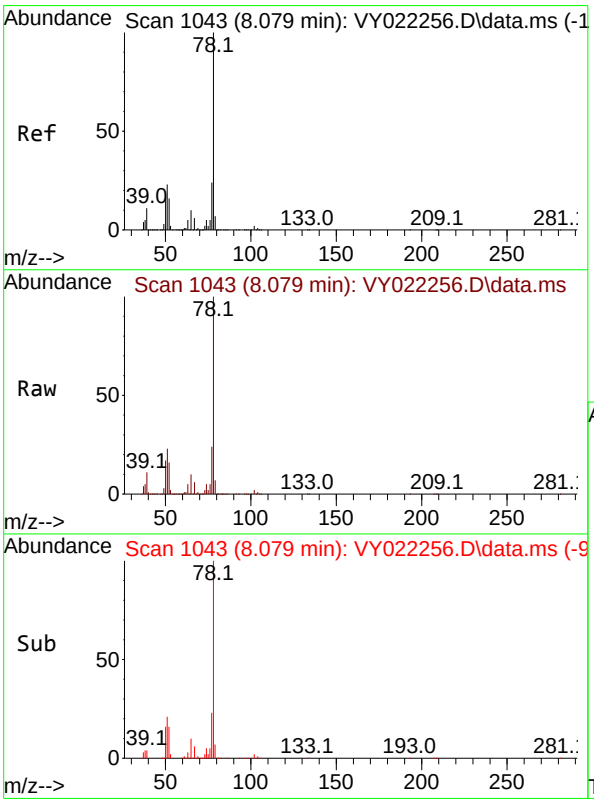
#39
Methylcyclohexane
Concen: 50.726 ug/l
RT: 9.109 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 83 Resp: 294336

Ion	Ratio	Lower	Upper
83	100		
55	75.7	60.6	90.8
98	50.0	40.0	60.0

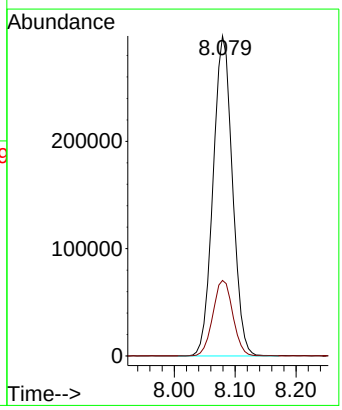


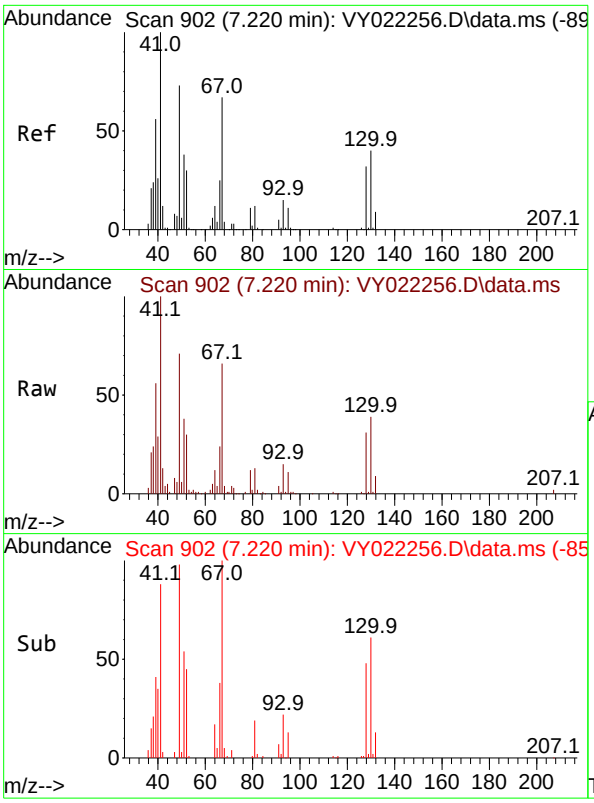


#40
Benzene
Concen: 51.442 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 78 Resp: 658644

Ion	Ratio	Lower	Upper
78	100		
77	23.6	18.9	28.3



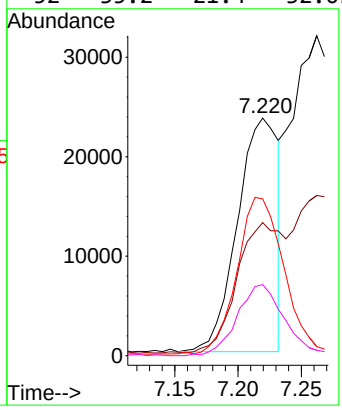


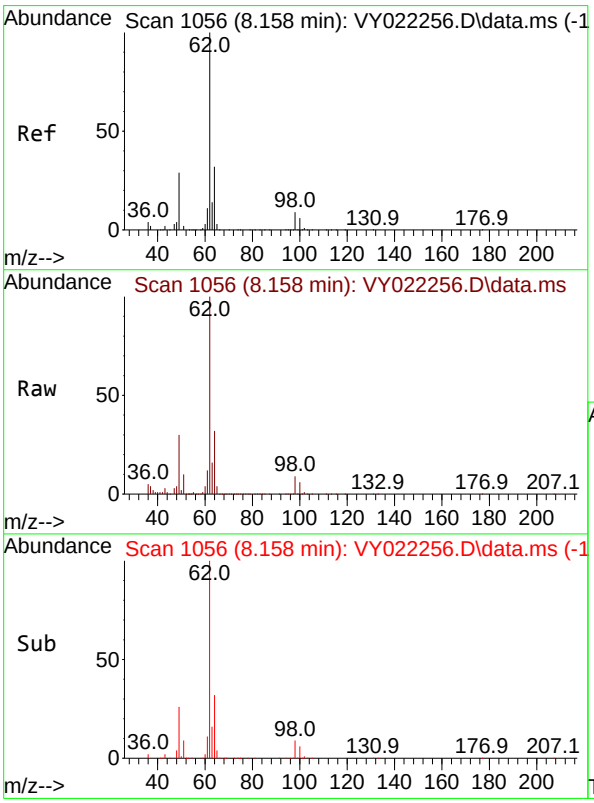
#41
Methacrylonitrile
Concen: 34.592 ug/l
RT: 7.220 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 41 Resp: 52599

Ion	Ratio	Lower	Upper
41	100		
39	64.4	39.1	58.7#
67	77.6	47.1	70.7#
52	35.2	21.4	32.0#

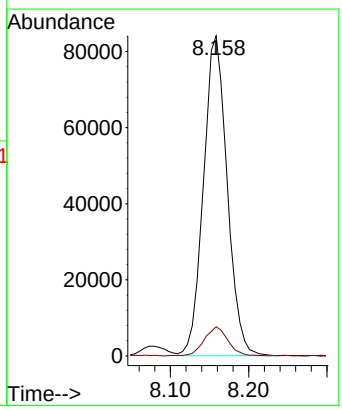


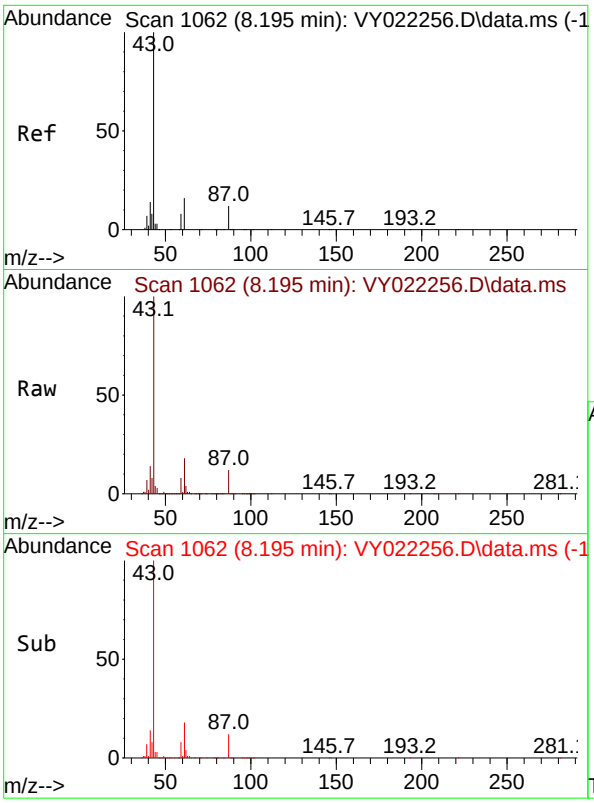


#42
1,2-Dichloroethane
Concen: 50.954 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 62 Resp: 176425

Ion	Ratio	Lower	Upper
62	100		
98	9.2	0.0	18.4



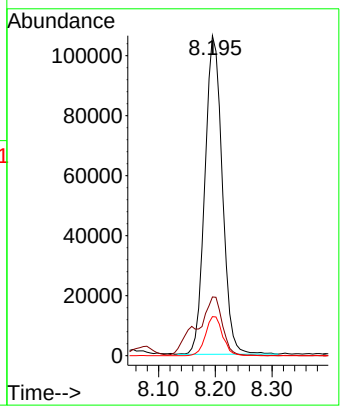


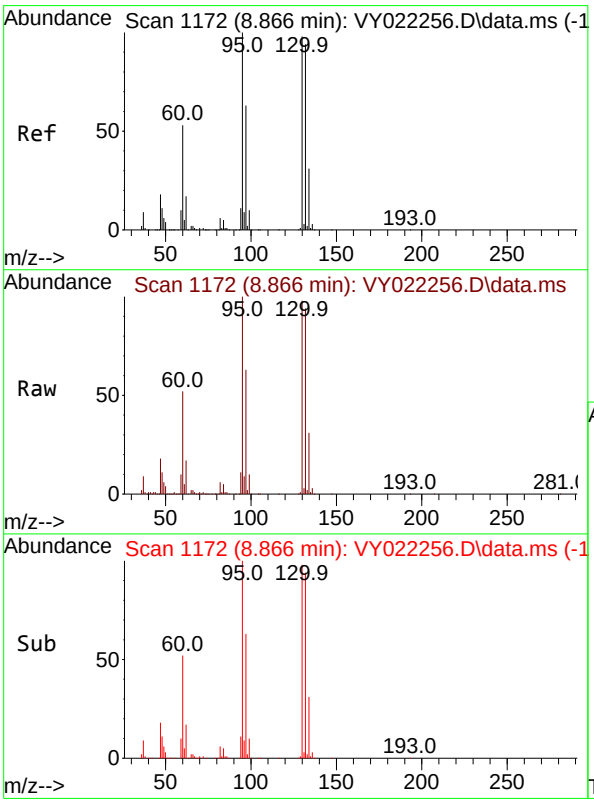
#43
Isopropyl Acetate
Concen: 49.785 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 225628

Ion	Ratio	Lower	Upper
43	100		
61	18.9	15.1	22.7
87	12.1	9.7	14.5

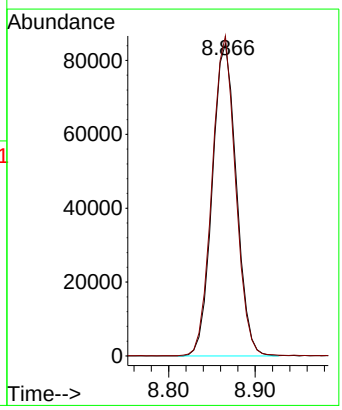


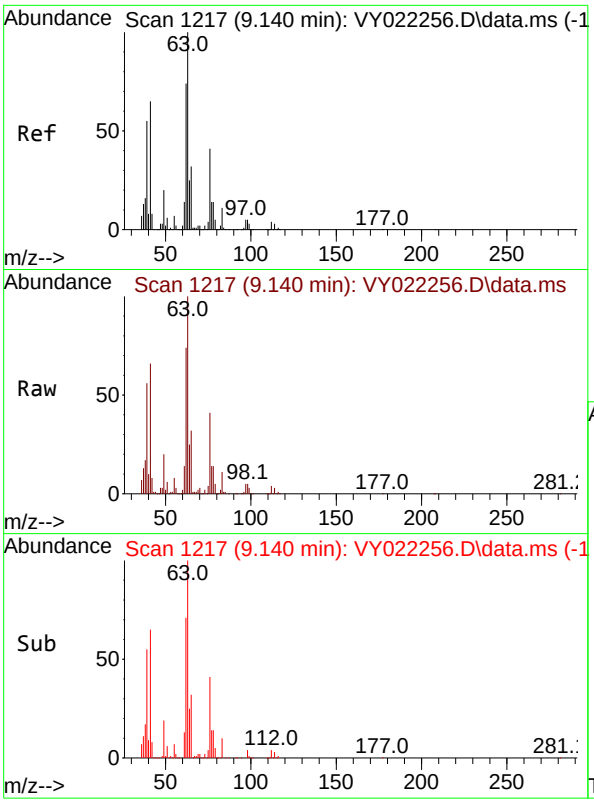


#44
Trichloroethene
Concen: 51.138 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion:130 Resp: 162802

Ion	Ratio	Lower	Upper
130	100		
95	102.4	0.0	204.8



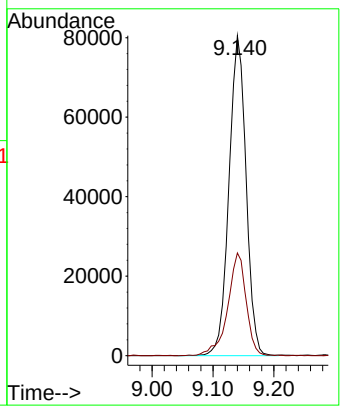


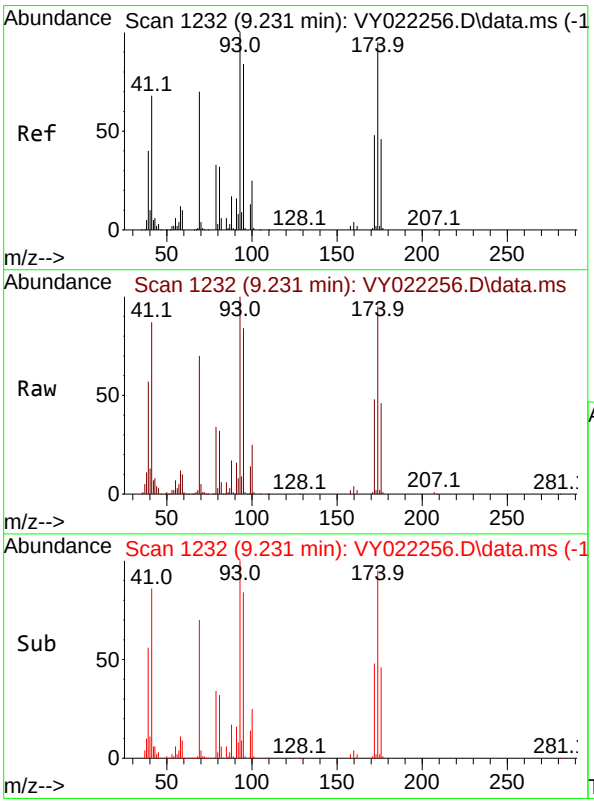
#45
1,2-Dichloropropane
Concen: 50.819 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 63 Resp: 156870

Ion	Ratio	Lower	Upper
63	100		
65	32.1	25.7	38.5

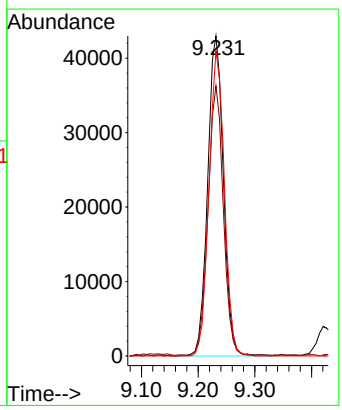


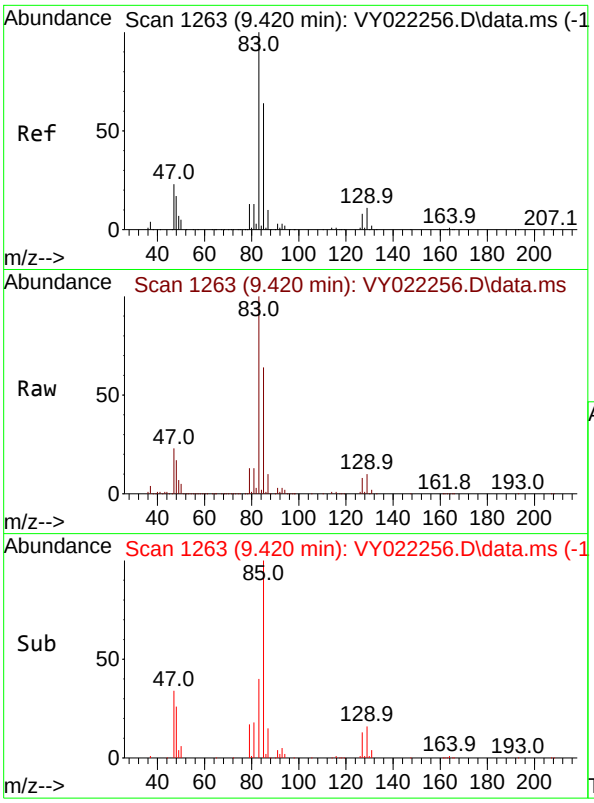


#46
Dibromomethane
Concen: 49.849 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 93 Resp: 82994

Ion	Ratio	Lower	Upper
93	100		
95	81.5	65.2	97.8
174	92.9	74.3	111.5



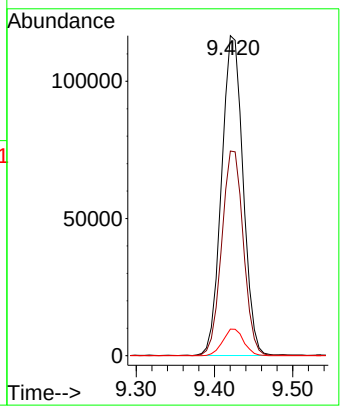


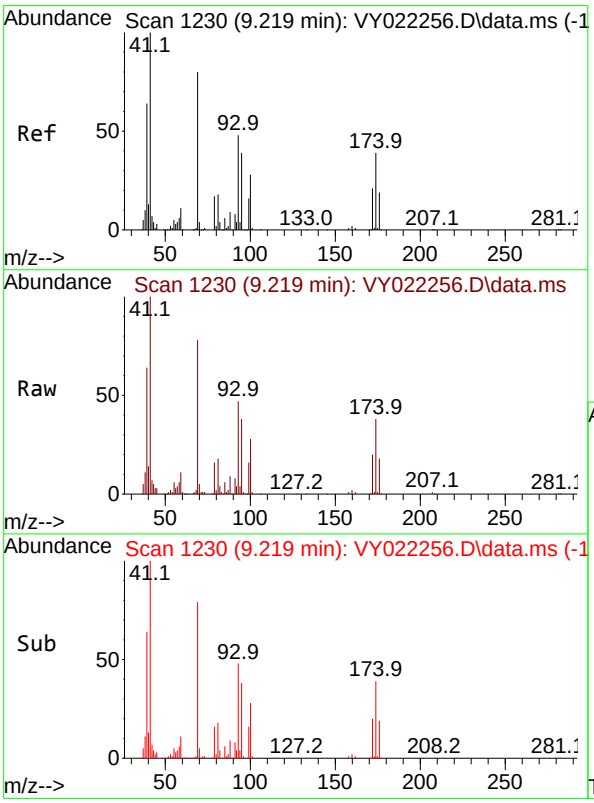
#47
Bromodichloromethane
Concen: 51.435 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 83 Resp: 222159

Ion	Ratio	Lower	Upper
83	100		
85	63.9	51.1	76.7
127	8.3	6.6	10.0

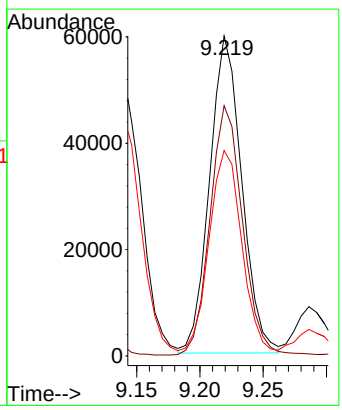


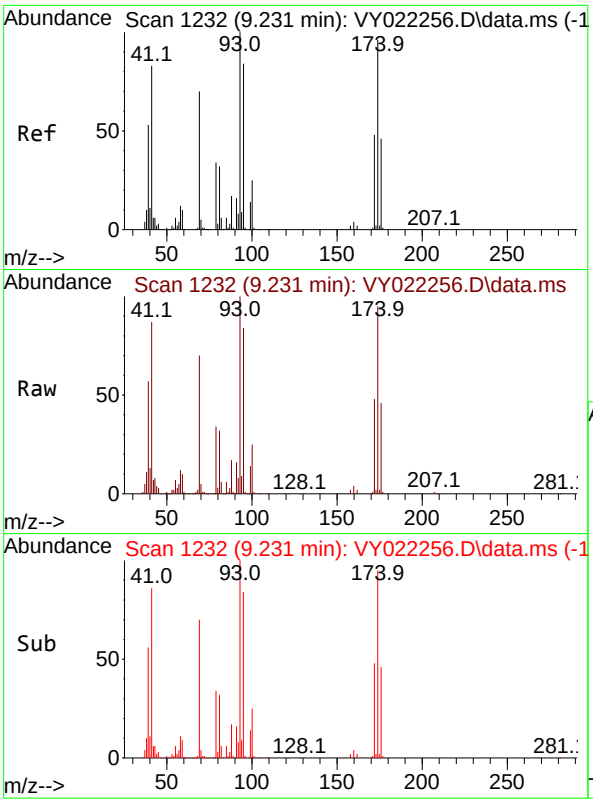


#48
Methyl methacrylate
Concen: 49.726 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 41 Resp: 105390

Ion	Ratio	Lower	Upper
41	100		
69	79.4	63.5	95.3
39	63.5	50.8	76.2



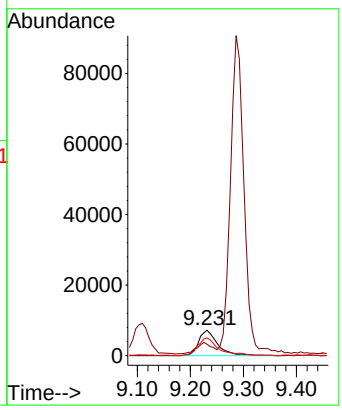


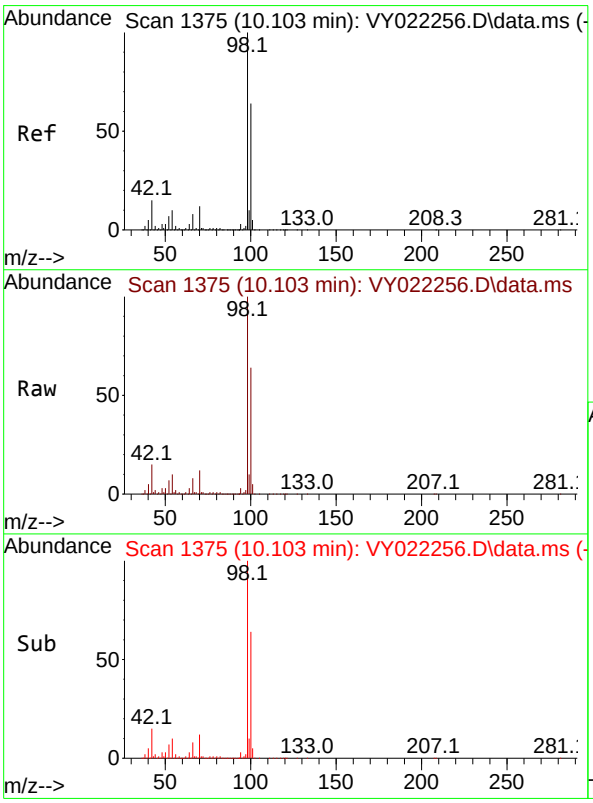
#49
1,4-Dioxane
Concen: 958.446 ug/l
RT: 9.231 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 88 Resp: 18027

Ion	Ratio	Lower	Upper
88	100		
43	35.6	28.5	42.7
58	76.8	61.4	92.2

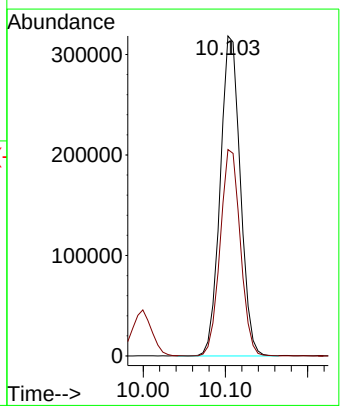


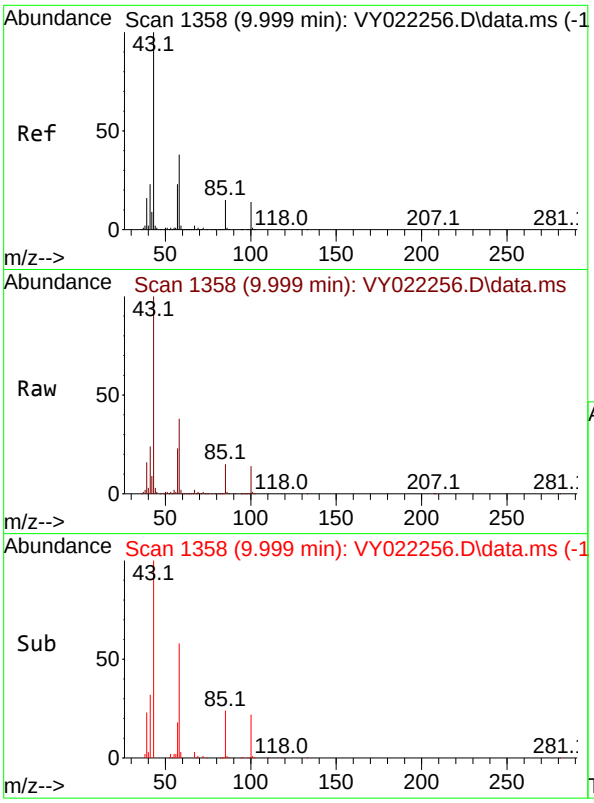


#50
Toluene-d8
Concen: 50.311 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 98 Resp: 540296

Ion	Ratio	Lower	Upper
98	100		
100	64.8	51.8	77.8



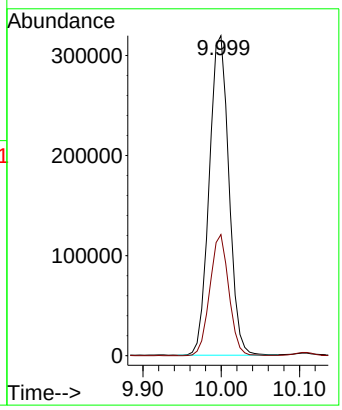


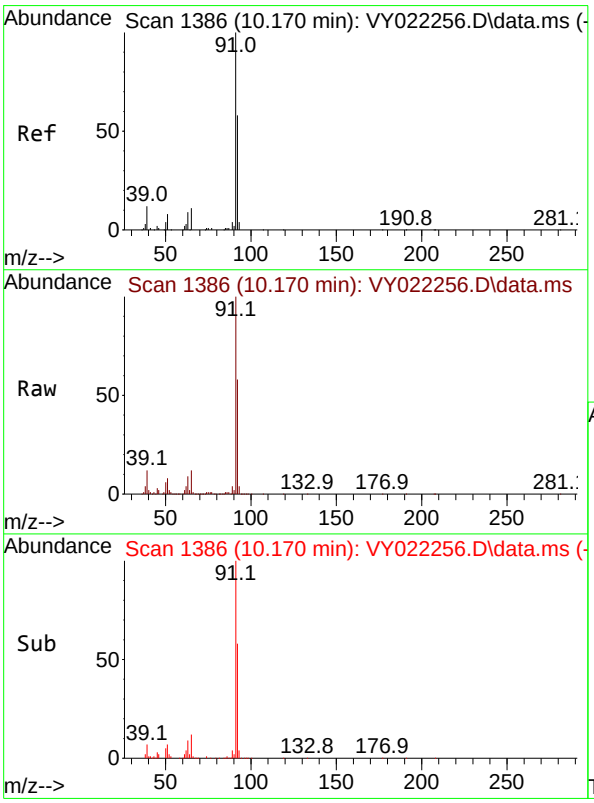
#51
4-Methyl-2-Pentanone
Concen: 250.085 ug/l
RT: 9.999 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 556123

Ion	Ratio	Lower	Upper
43	100		
58	36.8	29.4	44.2

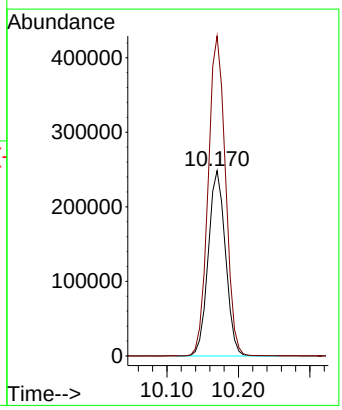


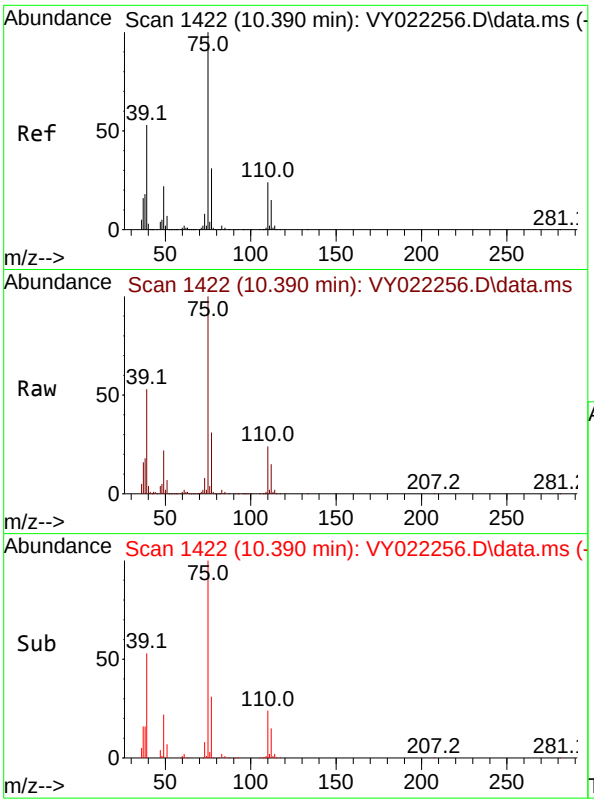


#52
Toluene
Concen: 51.134 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 92 Resp: 414584

Ion	Ratio	Lower	Upper
92	100		
91	173.9	139.1	208.7



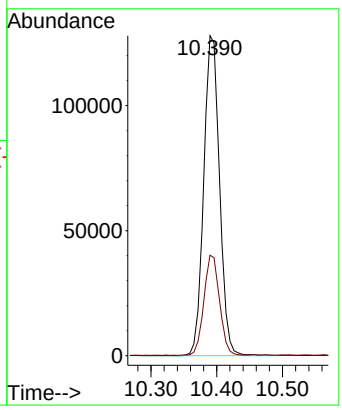


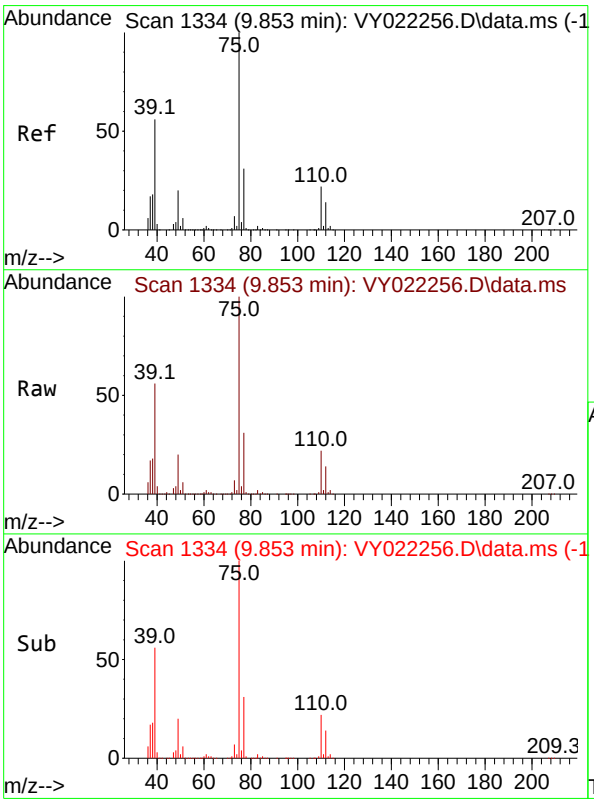
#53
t-1,3-Dichloropropene
Concen: 50.768 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 75 Resp: 213993

Ion	Ratio	Lower	Upper
75	100		
77	31.3	25.0	37.6

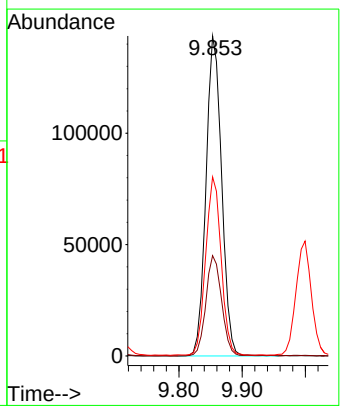


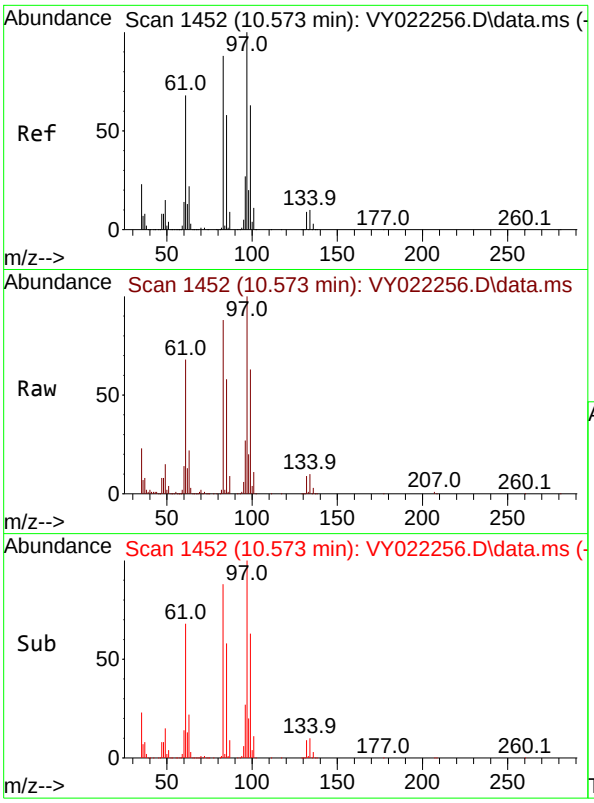


#54
cis-1,3-Dichloropropene
Concen: 51.143 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 75 Resp: 246990

Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.1	37.7
39	55.6	44.5	66.7



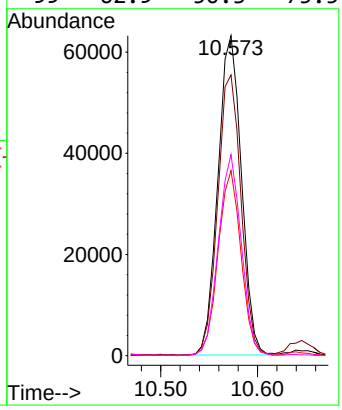


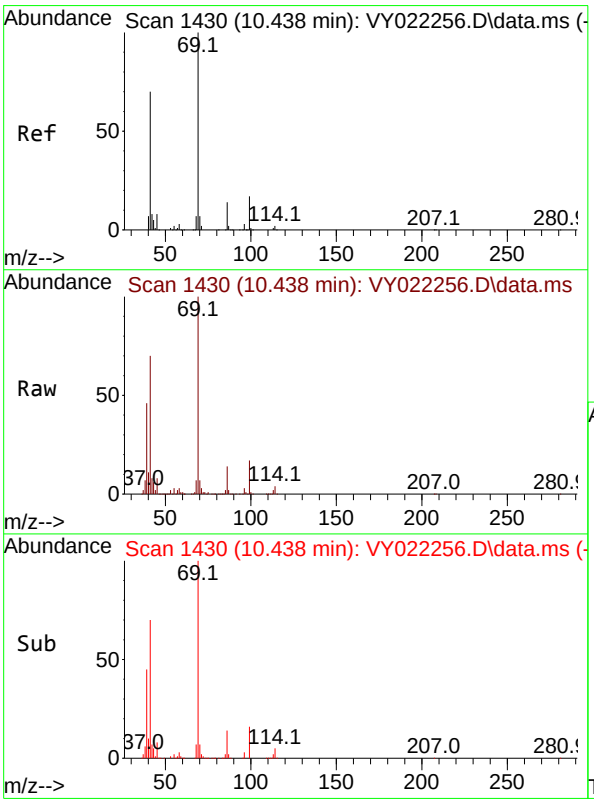
#55
1,1,2-Trichloroethane
Concen: 50.036 ug/l
RT: 10.573 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 97 Resp: 106676

Ion	Ratio	Lower	Upper
97	100		
83	87.9	70.3	105.5
85	57.8	46.2	69.4
99	62.9	50.3	75.5

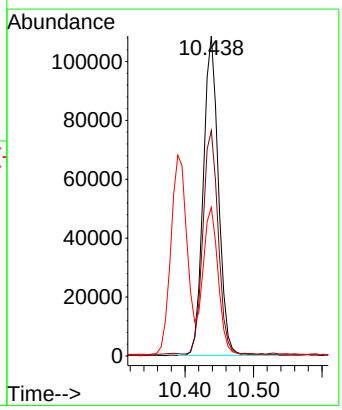


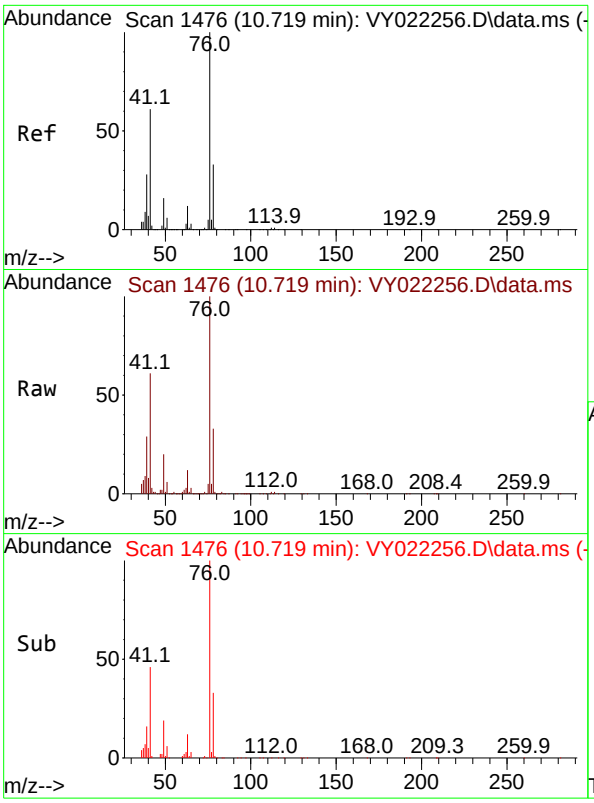


#56
Ethyl methacrylate
Concen: 50.364 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 69 Resp: 167259

Ion	Ratio	Lower	Upper
69	100		
41	70.6	56.5	84.7
39	46.4	37.1	55.7



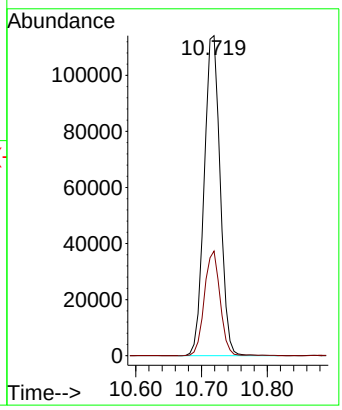


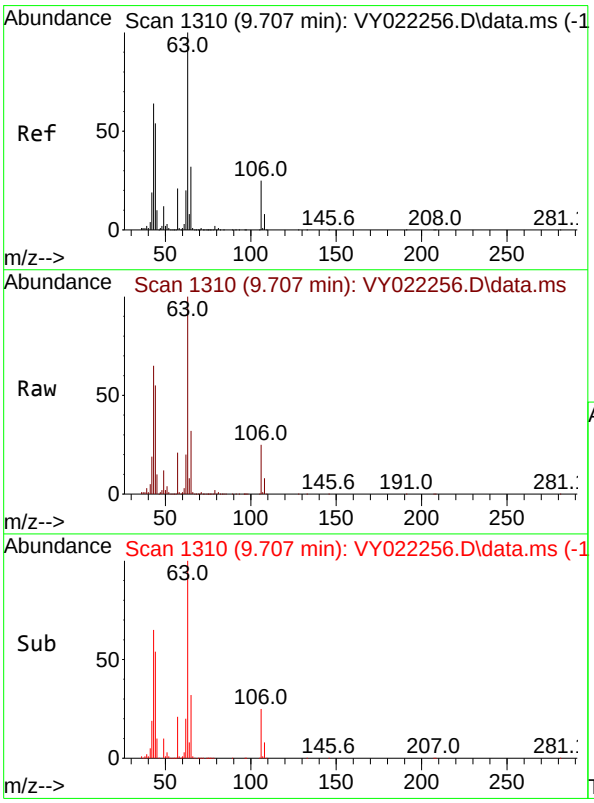
#57
1,3-Dichloropropane
Concen: 50.759 ug/l
RT: 10.719 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 76 Resp: 192275

Ion	Ratio	Lower	Upper
76	100		
78	32.3	25.8	38.8

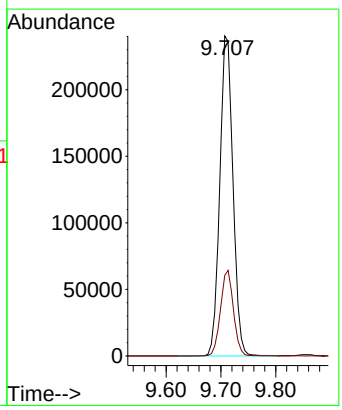


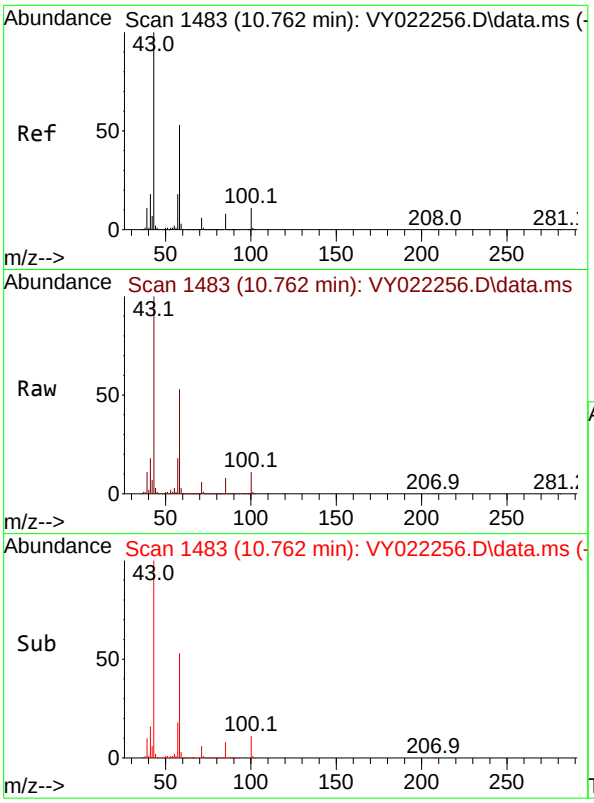


#58
2-Chloroethyl Vinyl ether
Concen: 270.408 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 63 Resp: 403074

Ion	Ratio	Lower	Upper
63	100		
106	26.2	21.0	31.4



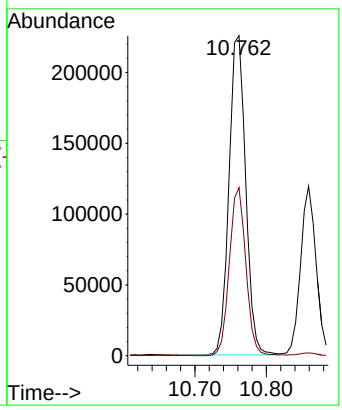


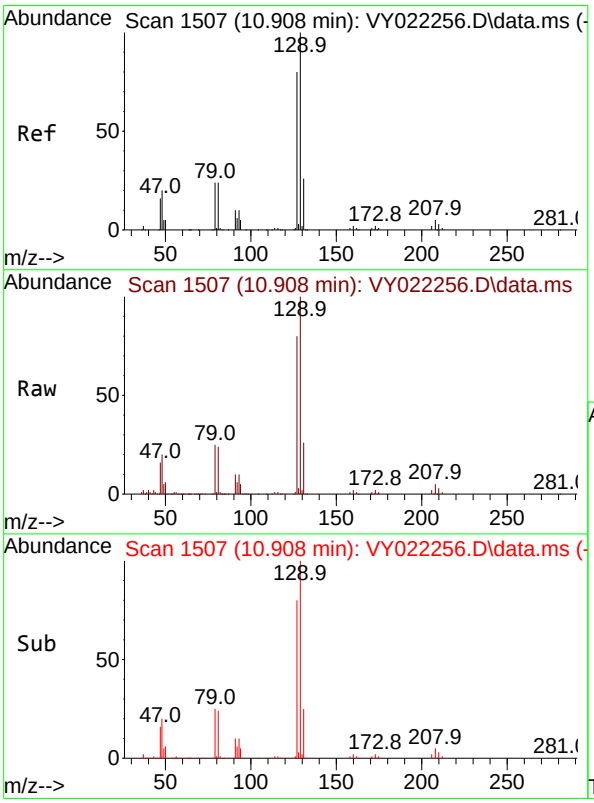
#59
2-Hexanone
Concen: 244.881 ug/l
RT: 10.762 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 365111

Ion	Ratio	Lower	Upper
43	100		
58	52.2	26.1	78.3

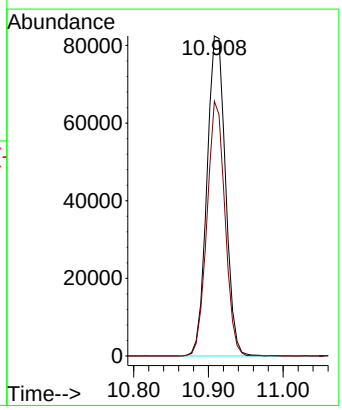


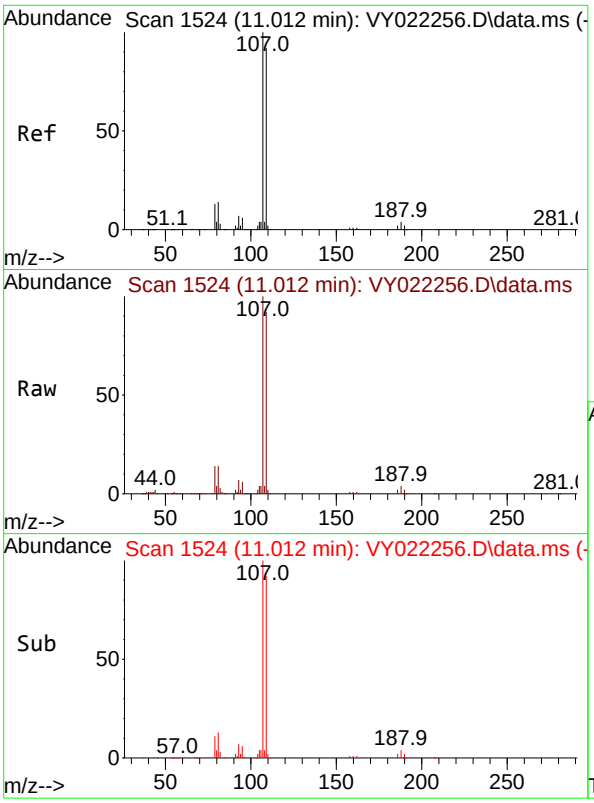


#60
Dibromochloromethane
Concen: 51.278 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion:129 Resp: 141896

Ion	Ratio	Lower	Upper
129	100		
127	77.1	38.6	115.7



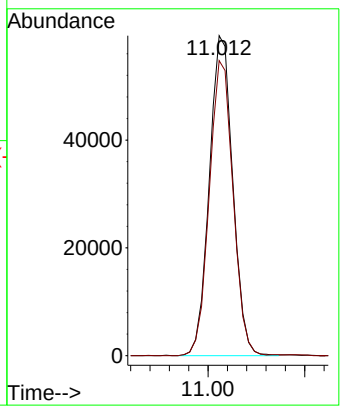


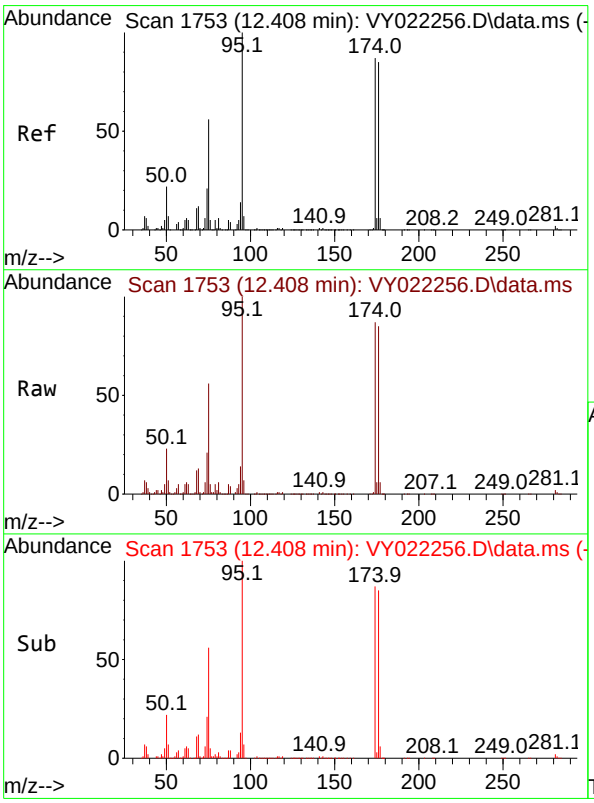
#61
1,2-Dibromoethane
Concen: 50.236 ug/l
RT: 11.012 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion:107 Resp: 99822

Ion	Ratio	Lower	Upper
107	100		
109	93.2	74.6	111.8

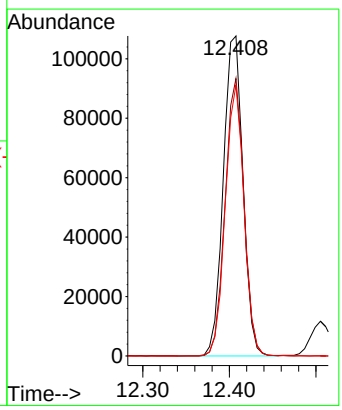


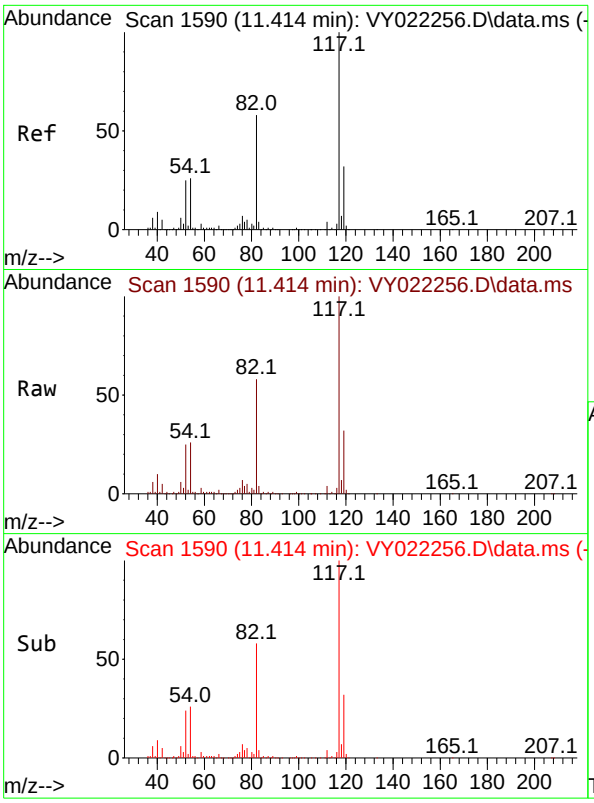


#62
4-Bromofluorobenzene
Concen: 49.891 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 95 Resp: 169827

Ion	Ratio	Lower	Upper
95	100		
174	83.4	0.0	166.8
176	80.4	0.0	160.8



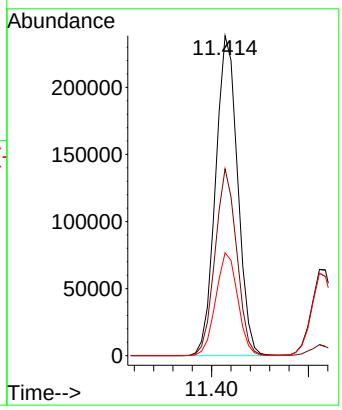


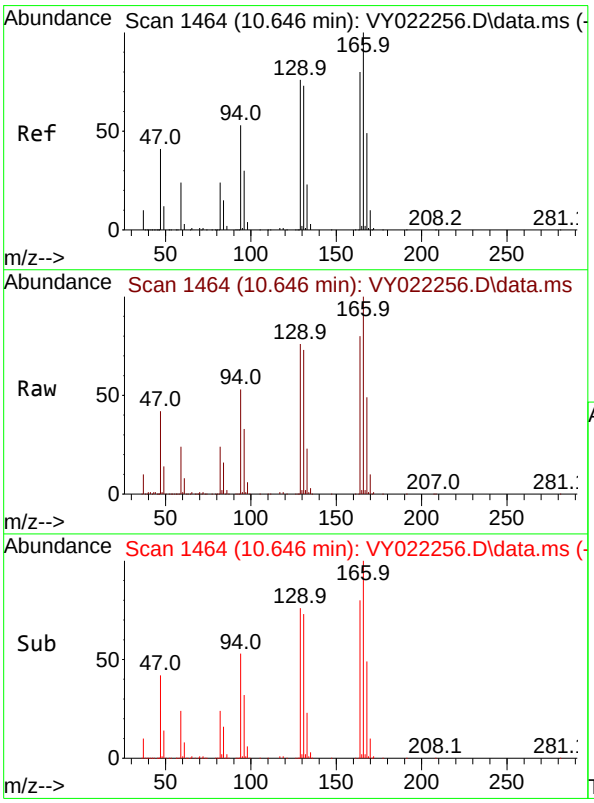
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion:117 Resp: 377571

Ion	Ratio	Lower	Upper
117	100		
82	58.3	46.6	70.0
119	32.2	25.8	38.6

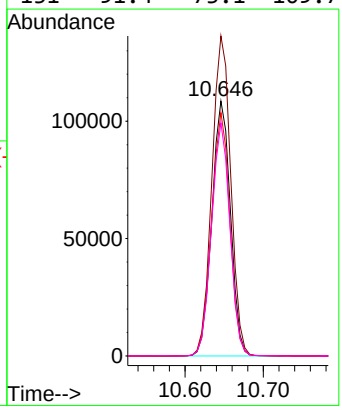


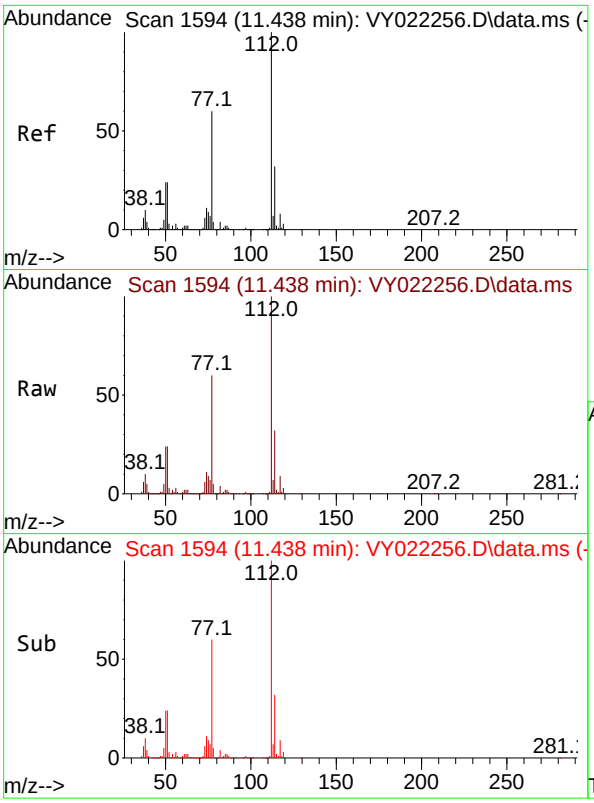


#64
Tetrachloroethene
Concen: 51.249 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion:164 Resp: 178854

Ion	Ratio	Lower	Upper
164	100		
166	125.5	100.4	150.6
129	95.5	76.4	114.6
131	91.4	73.1	109.7



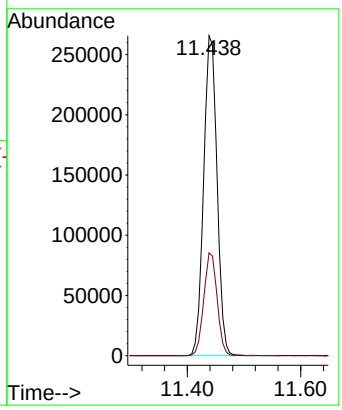


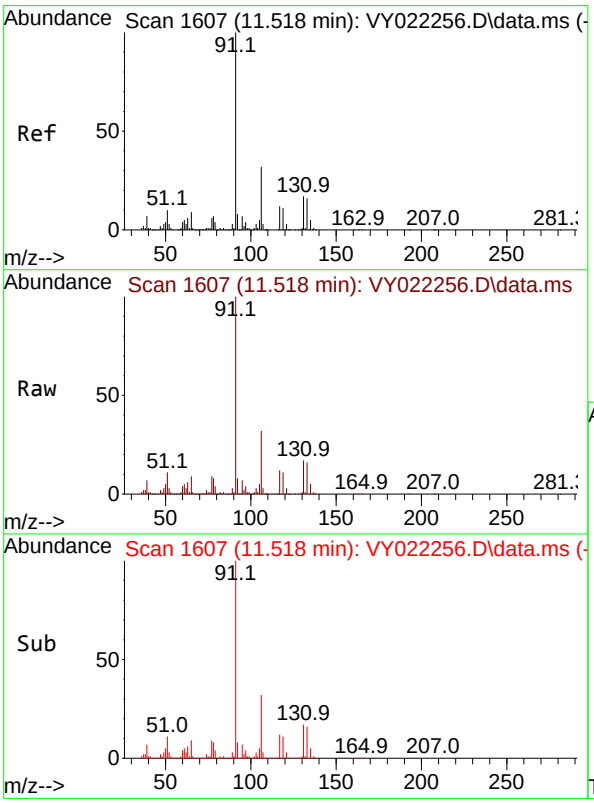
#65
Chlorobenzene
Concen: 51.169 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion:112 Resp: 435874

Ion	Ratio	Lower	Upper
112	100		
114	32.2	25.8	38.6

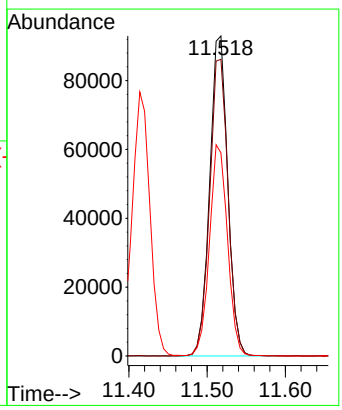


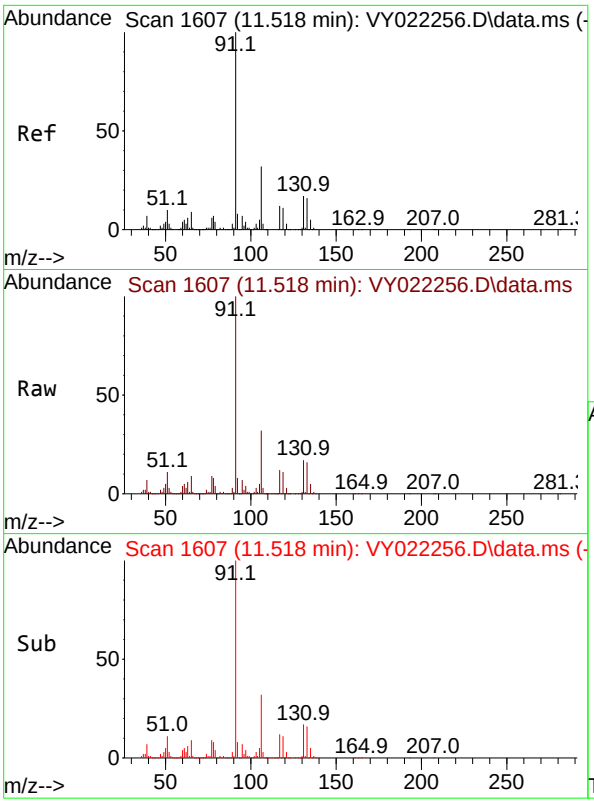


#66
1,1,1,2-Tetrachloroethane
Concen: 50.811 ug/l
RT: 11.518 min Scan# 1607
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion:131 Resp: 148798

Ion	Ratio	Lower	Upper
131	100		
133	94.6	47.3	141.9
119	66.1	33.1	99.2



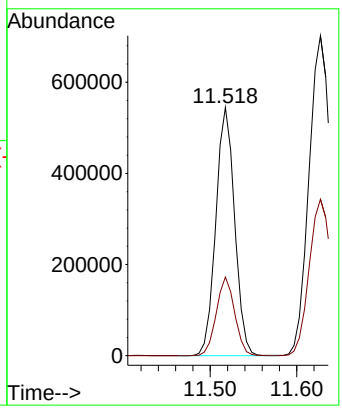


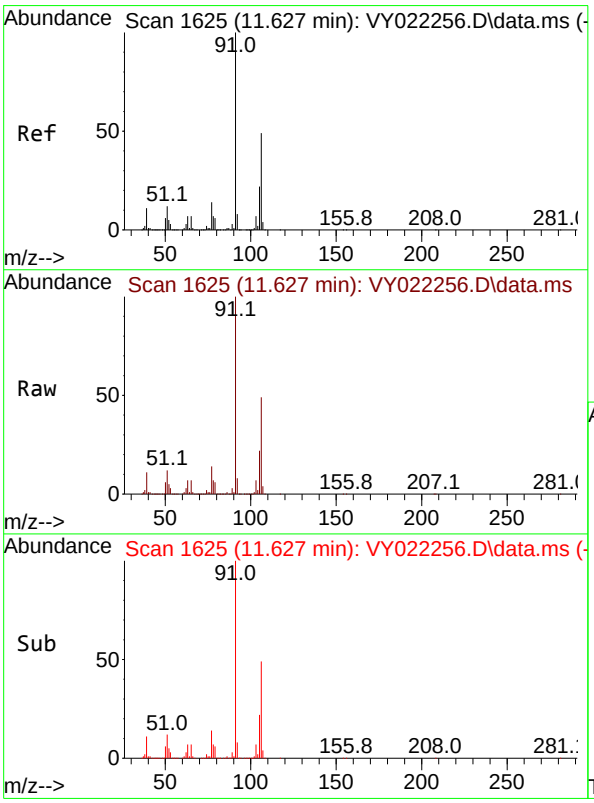
#67
Ethyl Benzene
Concen: 51.473 ug/l
RT: 11.518 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 91 Resp: 821168

Ion	Ratio	Lower	Upper
91	100		
106	31.7	25.4	38.0

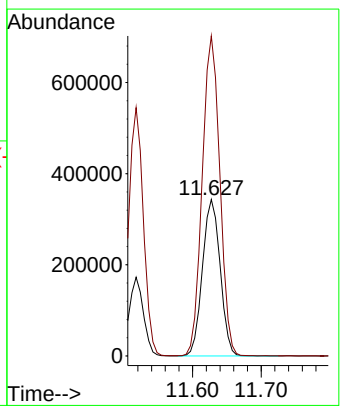


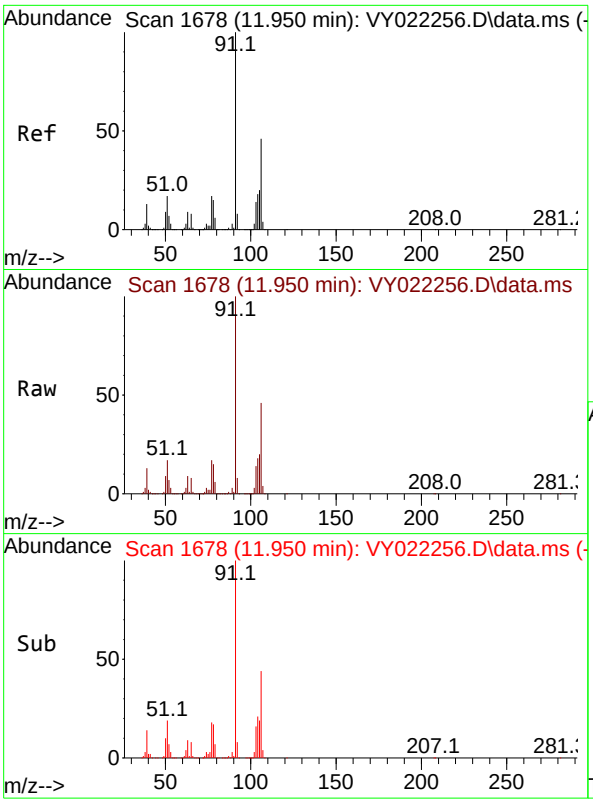


#68
m/p-Xylenes
Concen: 102.746 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion:106 Resp: 617646

Ion	Ratio	Lower	Upper
106	100		
91	203.7	163.0	244.4



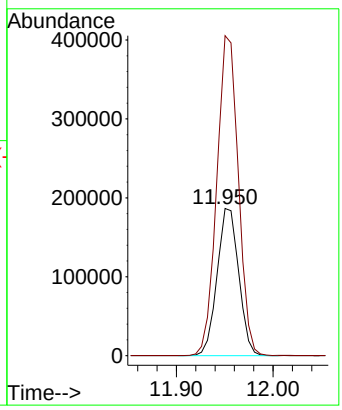


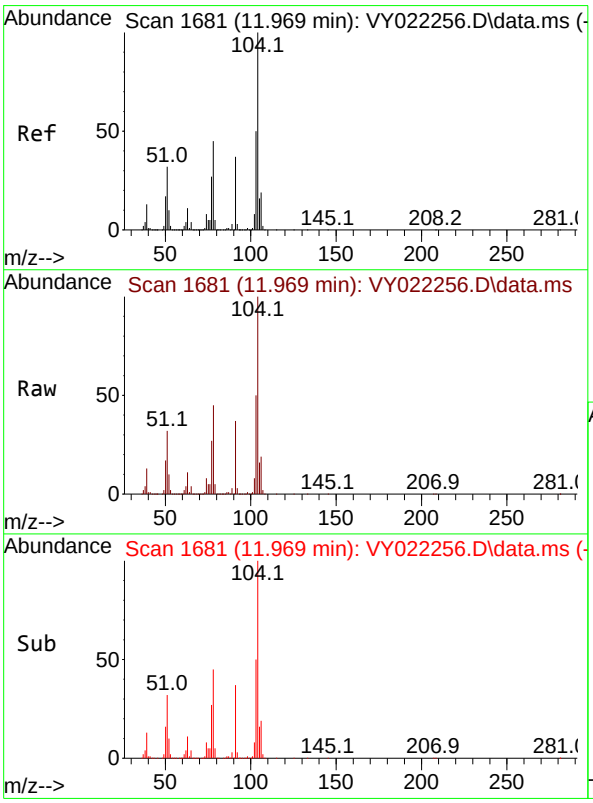
#69
o-Xylene
Concen: 50.971 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion:106 Resp: 289897

Ion	Ratio	Lower	Upper
106	100		
91	216.5	108.3	324.8

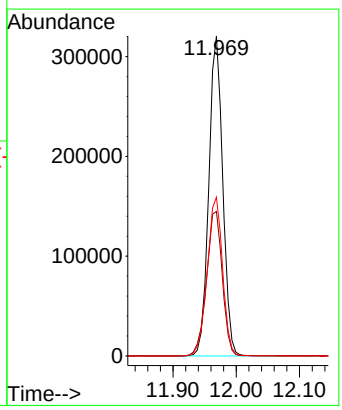


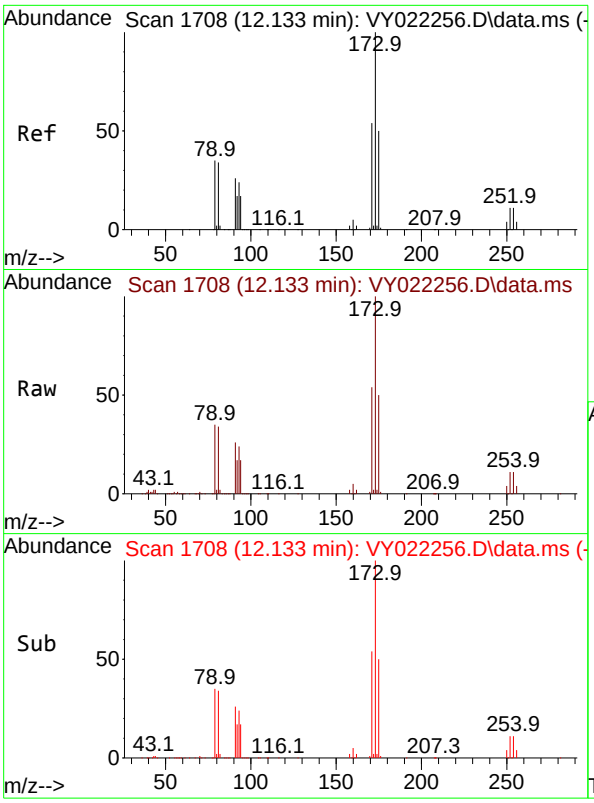


#70
Styrene
Concen: 51.260 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion:104 Resp: 491792

Ion	Ratio	Lower	Upper
104	100		
78	51.1	40.9	61.3
103	54.6	43.7	65.5



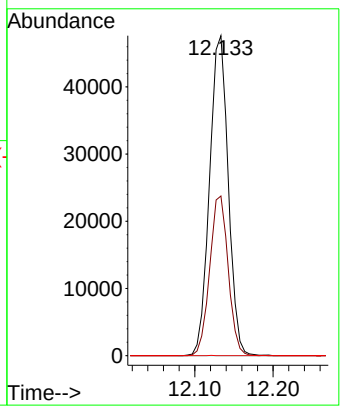


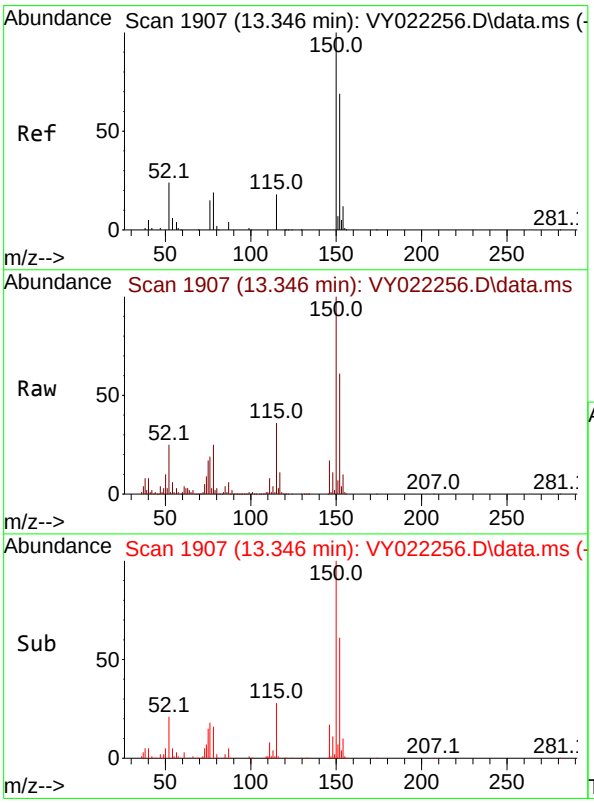
#71
Bromoform
Concen: 49.849 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion:173 Resp: 78794

Ion	Ratio	Lower	Upper
173	100		
175	49.4	24.7	74.1
254	0.0	0.0	0.0#

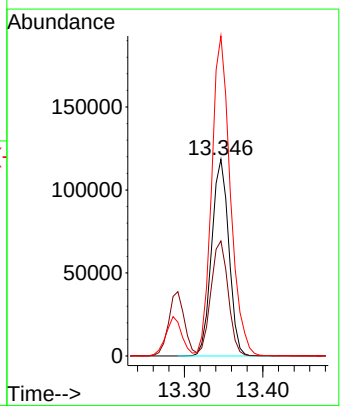


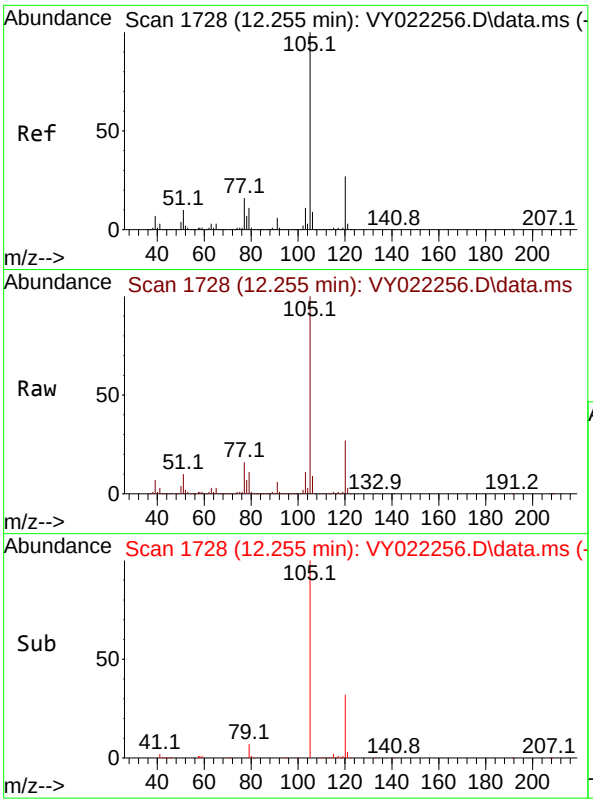


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion:152 Resp: 180358

Ion	Ratio	Lower	Upper
152	100		
115	58.8	29.4	88.2
150	176.9	0.0	353.8



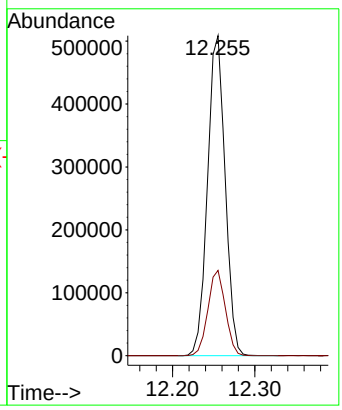


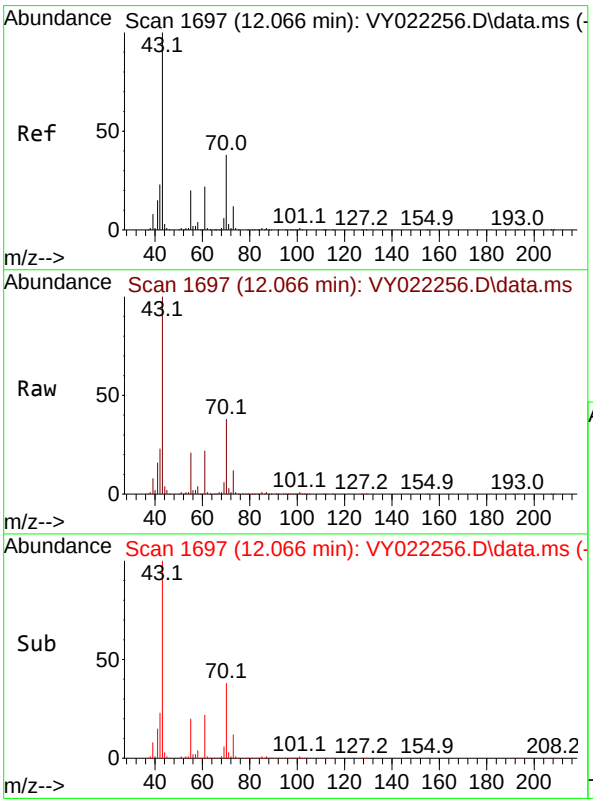
#73
Isopropylbenzene
Concen: 50.657 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion:105 Resp: 756905

Ion	Ratio	Lower	Upper
105	100		
120	26.4	13.2	39.6

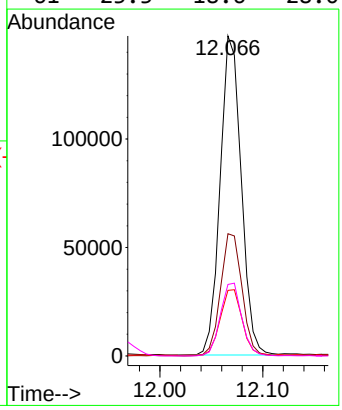


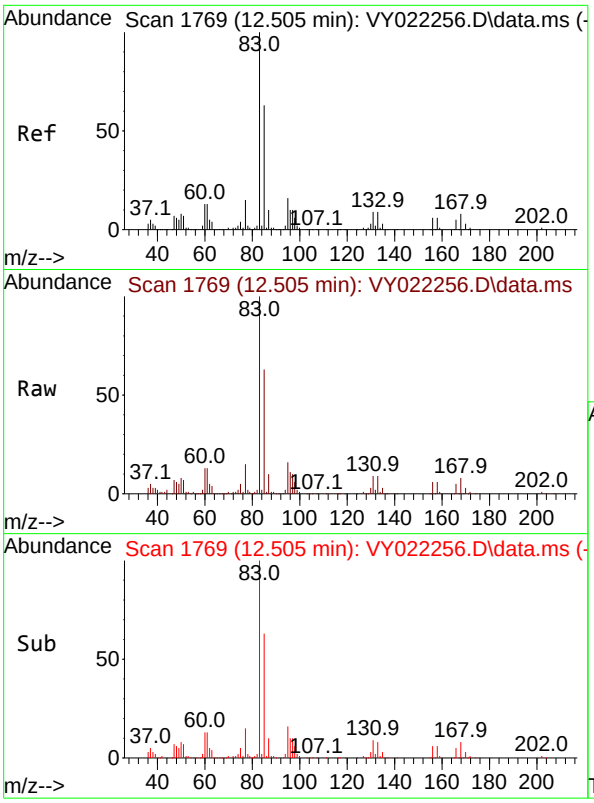


#74
N-amyl acetate
Concen: 48.930 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 43 Resp: 209097

Ion	Ratio	Lower	Upper
43	100		
70	39.2	31.4	47.0
55	21.3	17.0	25.6
61	23.3	18.6	28.0



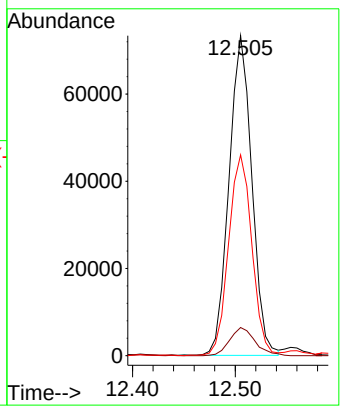


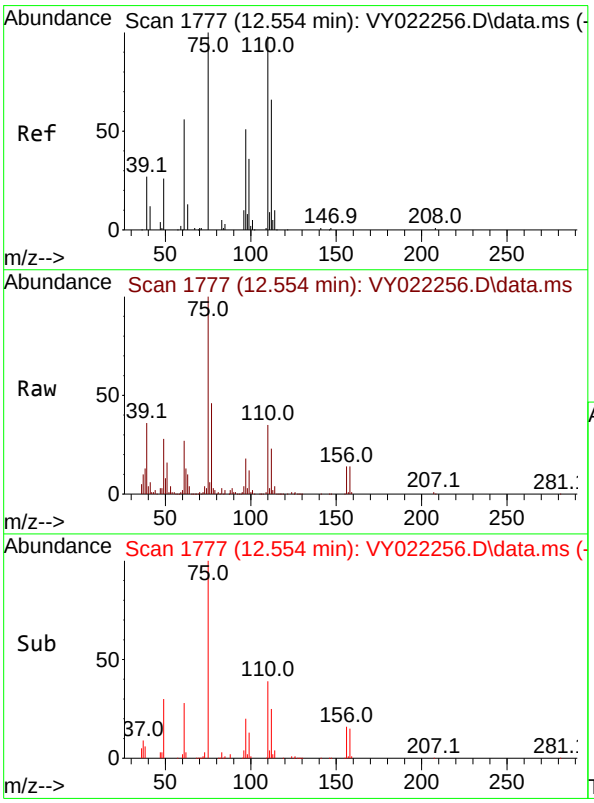
#75
1,1,2,2-Tetrachloroethane
Concen: 49.277 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 83 Resp: 113234

Ion	Ratio	Lower	Upper
83	100		
131	9.8	4.9	14.7
85	64.0	32.0	96.0

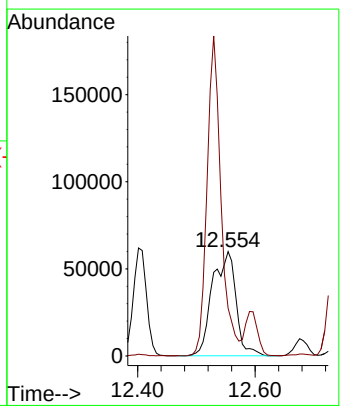


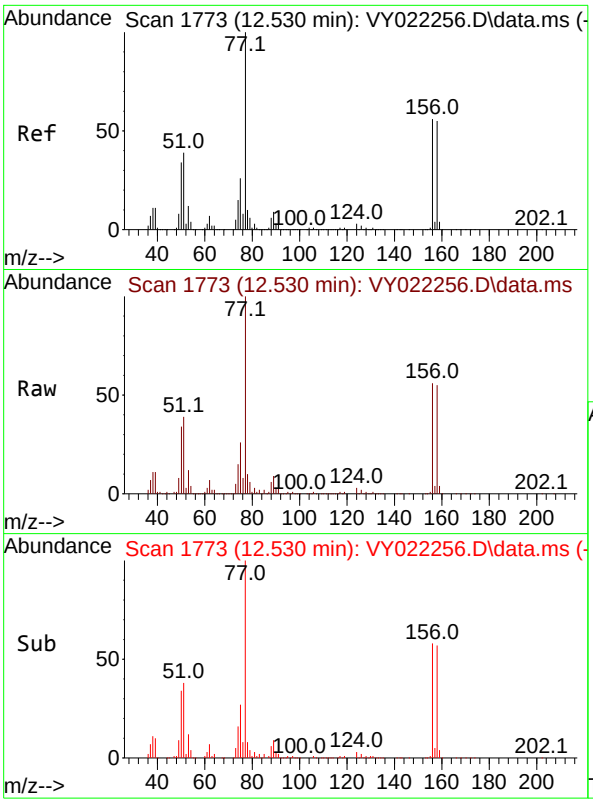


#76
1,2,3-Trichloropropane
Concen: 52.556 ug/l
RT: 12.554 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 75 Resp: 167060

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0



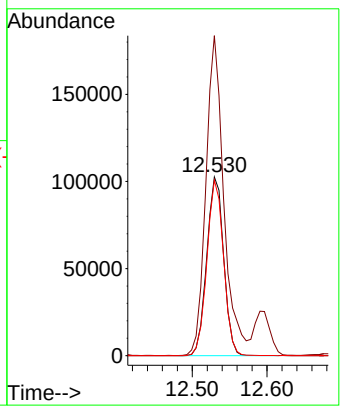


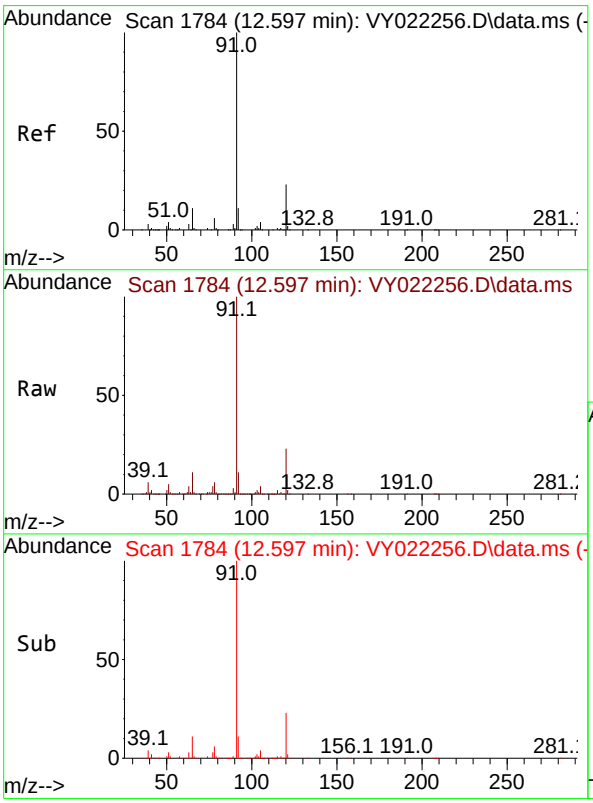
#77
Bromobenzene
Concen: 50.599 ug/l
RT: 12.530 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion:156 Resp: 161475

Ion	Ratio	Lower	Upper
156	100		
77	189.1	94.5	283.6
158	96.9	48.4	145.3

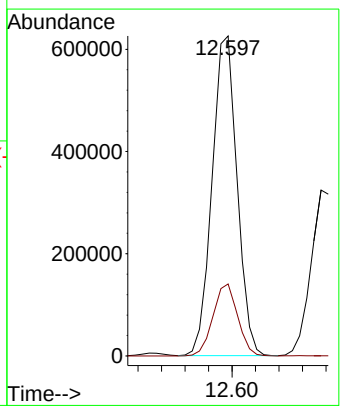


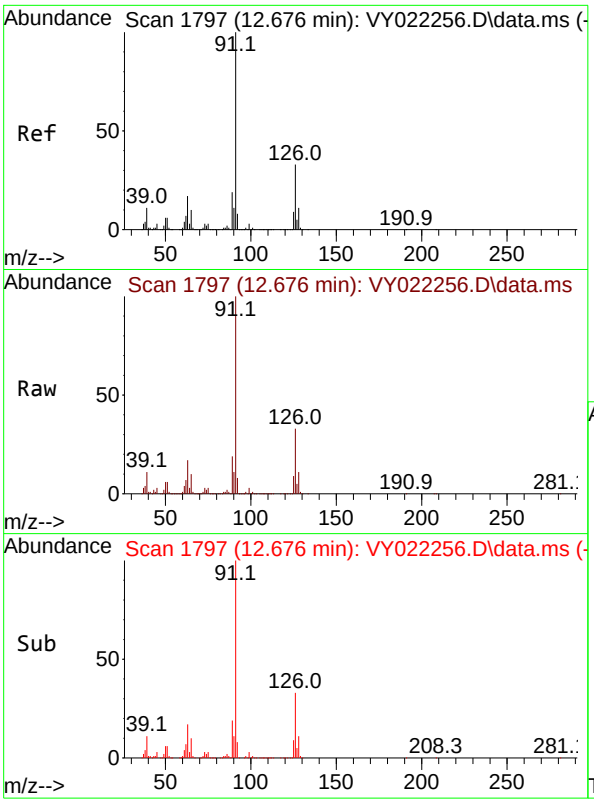


#78
n-propylbenzene
Concen: 51.306 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 91 Resp: 924664

Ion	Ratio	Lower	Upper
91	100		
120	22.2	11.1	33.3



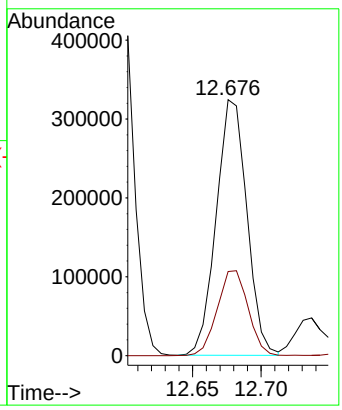


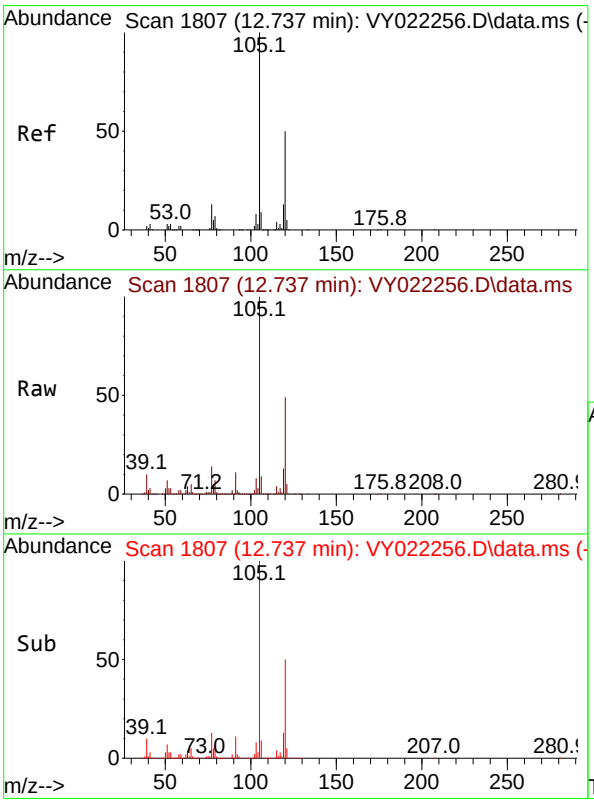
#79
2-Chlorotoluene
Concen: 51.058 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 91 Resp: 505684

Ion	Ratio	Lower	Upper
91	100		
126	33.6	16.8	50.4

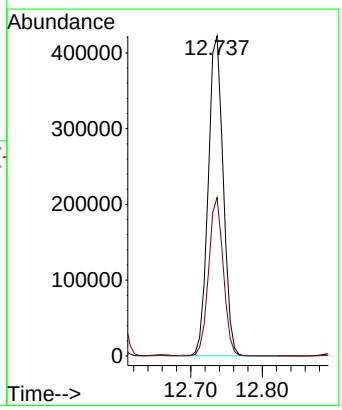


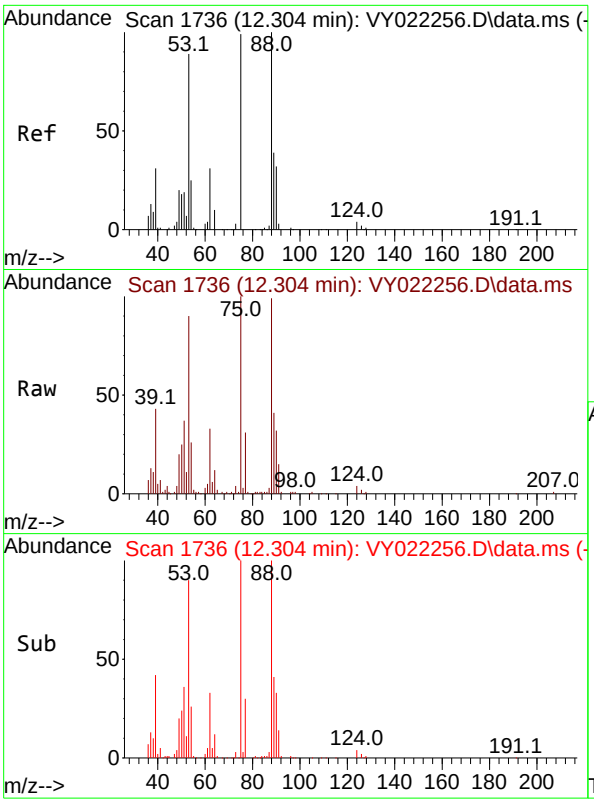


#80
1,3,5-Trimethylbenzene
Concen: 50.991 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion:105 Resp: 615033

Ion	Ratio	Lower	Upper
105	100		
120	48.4	24.2	72.6



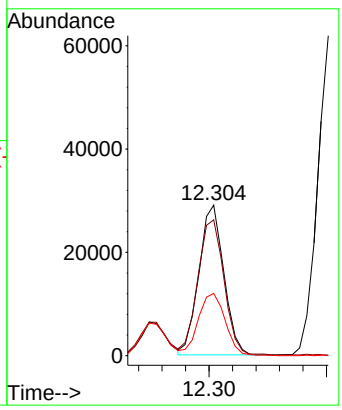


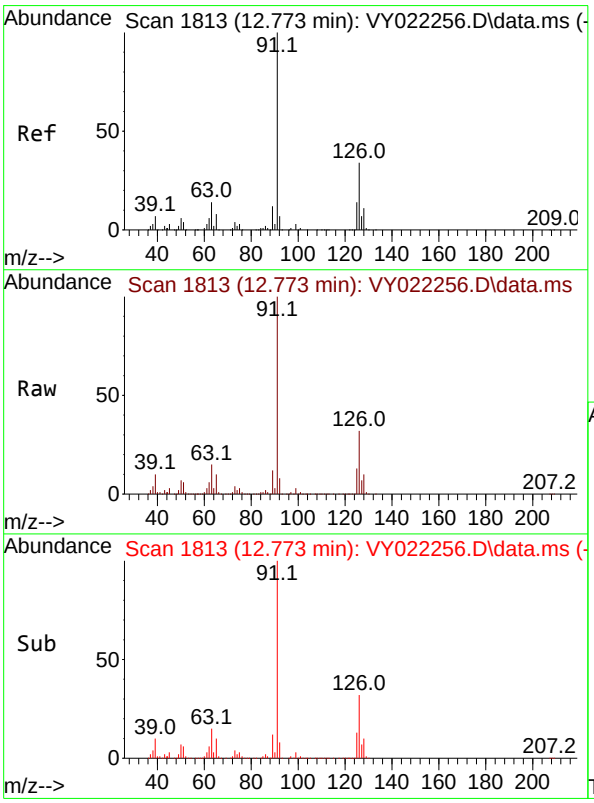
#81
trans-1,4-Dichloro-2-butene
Concen: 47.331 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 75 Resp: 42692

Ion	Ratio	Lower	Upper
75	100		
53	94.8	75.8	113.8
89	45.2	36.2	54.2

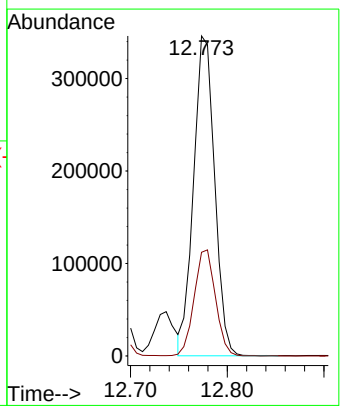


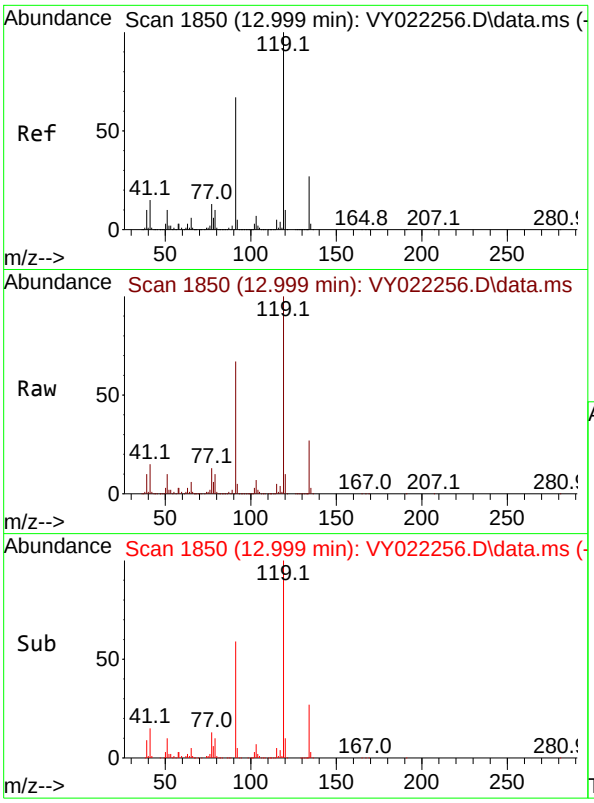


#82
4-Chlorotoluene
Concen: 51.464 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 91 Resp: 524270

Ion	Ratio	Lower	Upper
91	100		
126	33.6	16.8	50.4



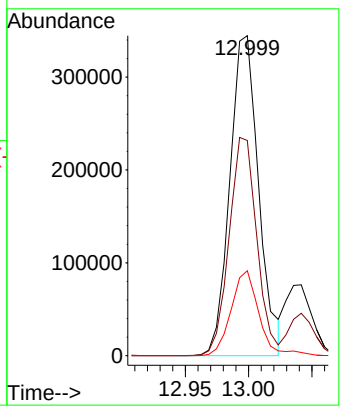


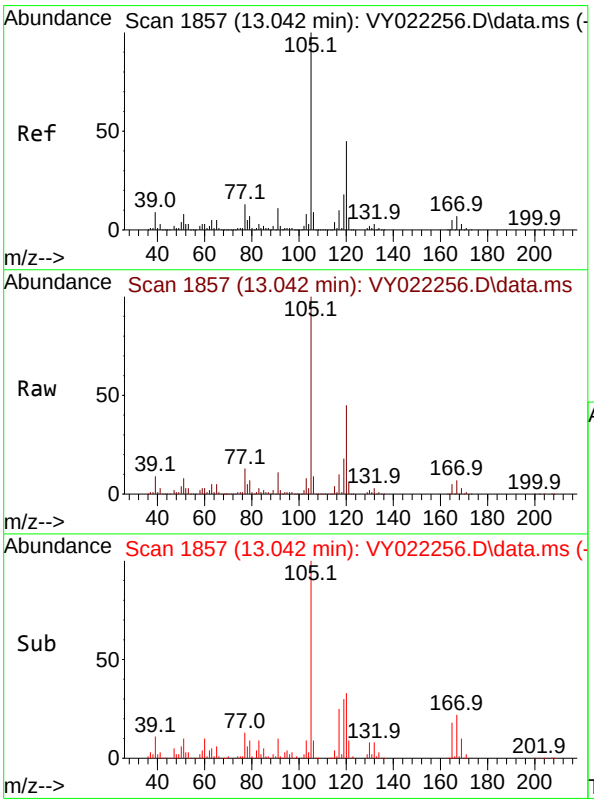
#83
tert-Butylbenzene
Concen: 50.952 ug/l
RT: 12.999 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion:119 Resp: 546231

Ion	Ratio	Lower	Upper
119	100		
91	65.5	32.8	98.3
134	25.7	12.9	38.6

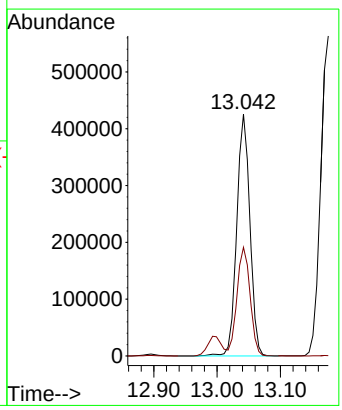


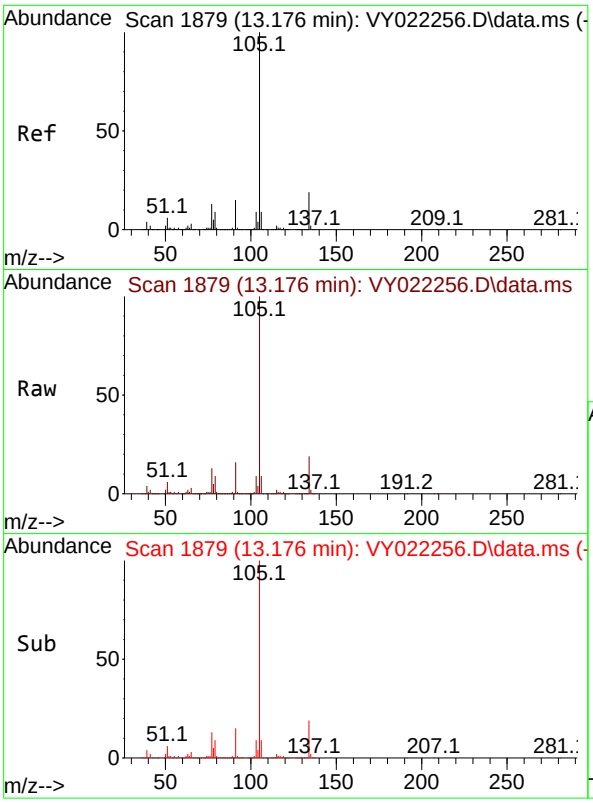


#84
1,2,4-Trimethylbenzene
Concen: 51.410 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion:105 Resp: 615550

Ion	Ratio	Lower	Upper
105	100		
120	44.6	22.3	66.9



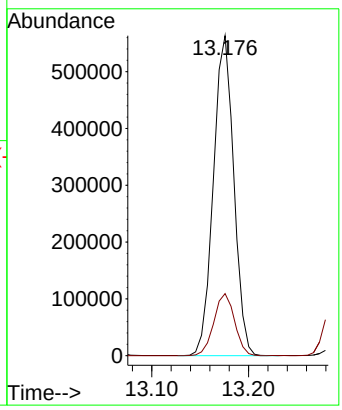


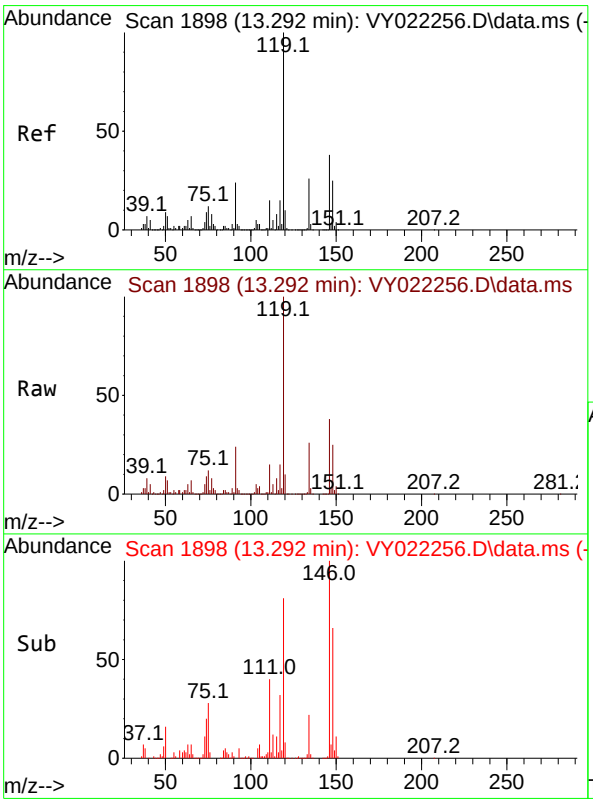
#85
sec-Butylbenzene
Concen: 51.825 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion:105 Resp: 824725

Ion	Ratio	Lower	Upper
105	100		
134	19.7	9.8	29.5

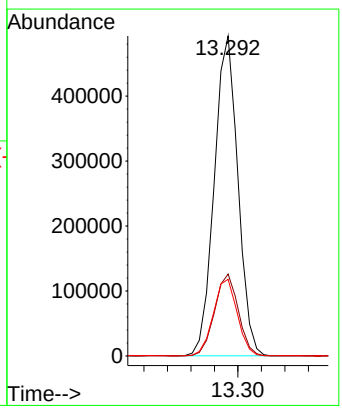


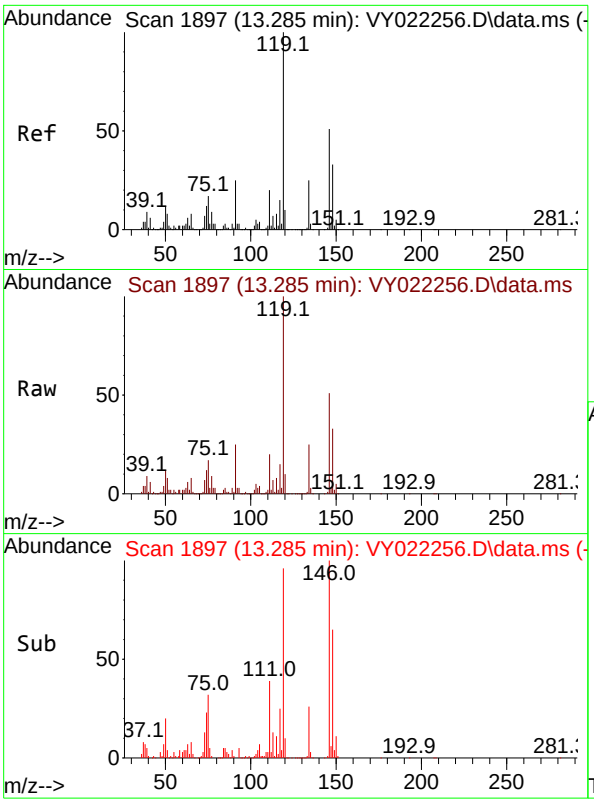


#86
p-Isopropyltoluene
Concen: 51.446 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion:119 Resp: 688561

Ion	Ratio	Lower	Upper
119	100		
134	25.7	12.9	38.6
91	24.2	12.1	36.3



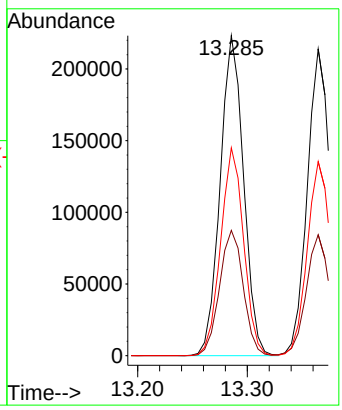


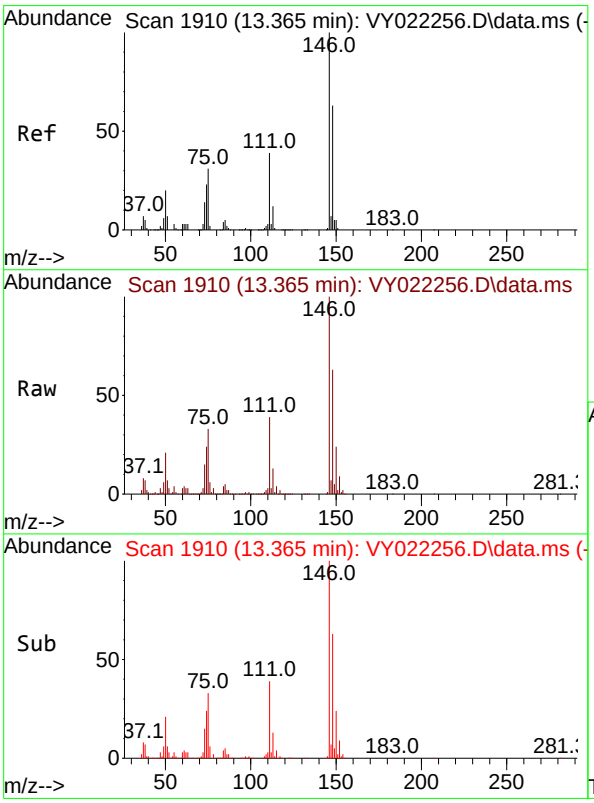
#87
1,3-Dichlorobenzene
Concen: 50.890 ug/l
RT: 13.285 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion:146 Resp: 331536

Ion	Ratio	Lower	Upper
146	100		
111	39.8	19.9	59.7
148	63.8	31.9	95.7

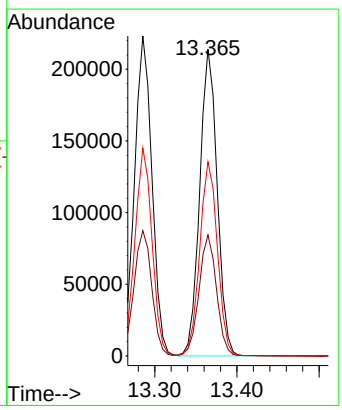


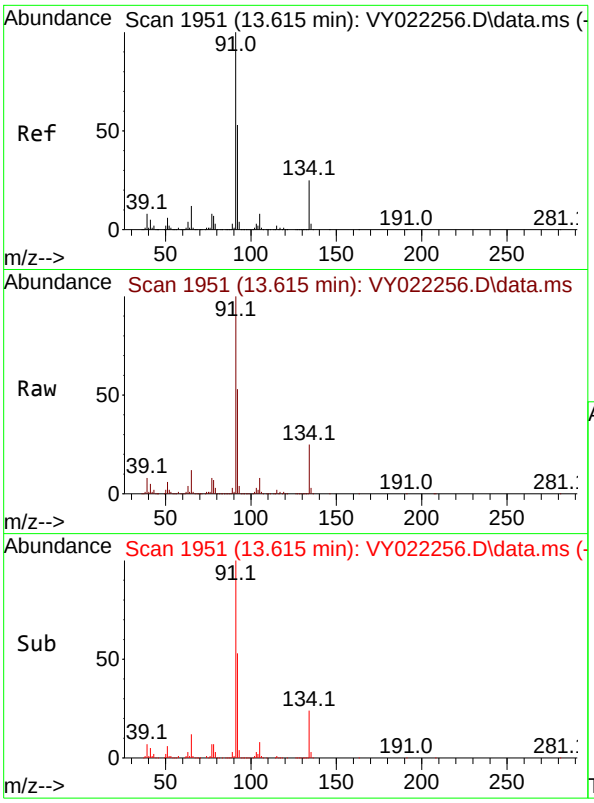


#88
1,4-Dichlorobenzene
Concen: 50.363 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion:146 Resp: 315598

Ion	Ratio	Lower	Upper
146	100		
111	39.9	20.0	59.9
148	64.3	32.1	96.5



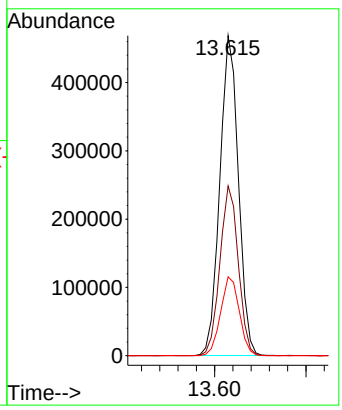


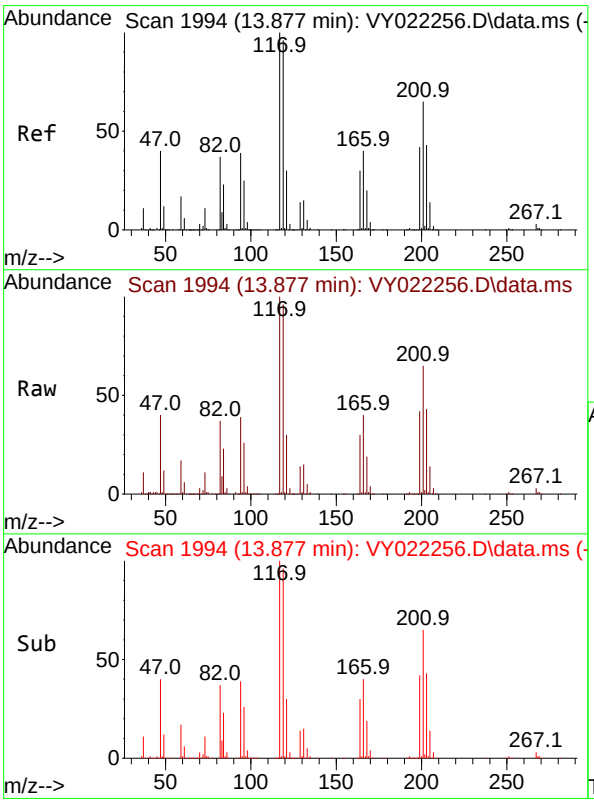
#89
n-Butylbenzene
Concen: 52.245 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 91 Resp: 661532

Ion	Ratio	Lower	Upper
91	100		
92	52.6	26.3	78.9
134	24.9	12.4	37.4

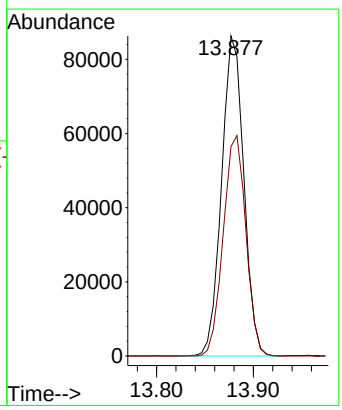


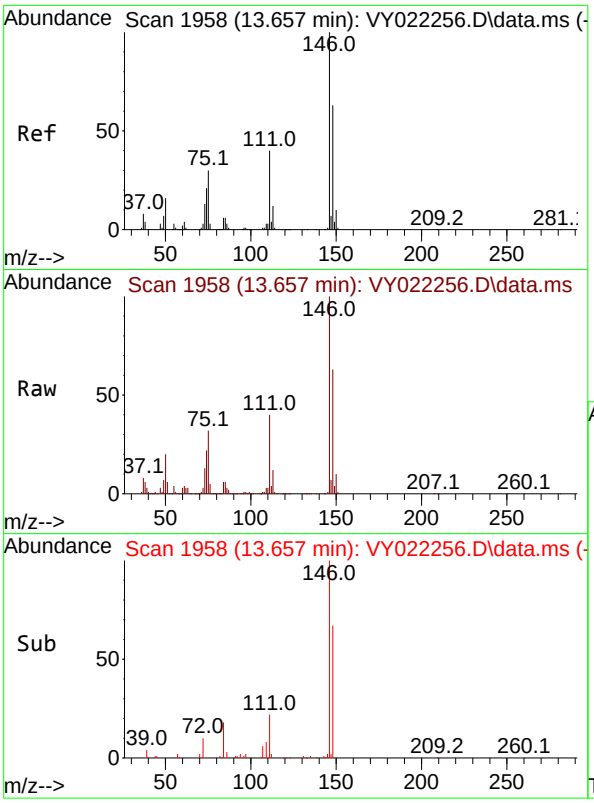


#90
Hexachloroethane
Concen: 50.791 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion:117 Resp: 137225

Ion	Ratio	Lower	Upper
117	100		
201	70.4	35.2	105.6



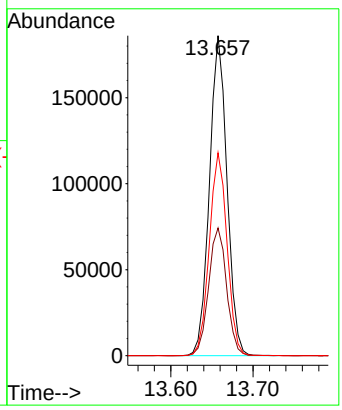


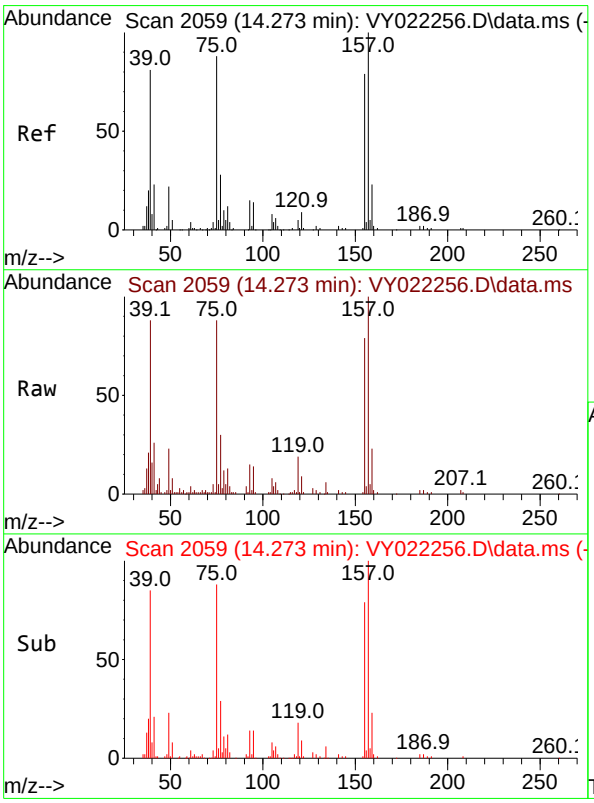
#91
1,2-Dichlorobenzene
Concen: 50.558 ug/l
RT: 13.657 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion:146 Resp: 276666

Ion	Ratio	Lower	Upper
146	100		
111	41.0	20.5	61.5
148	64.0	32.0	96.0

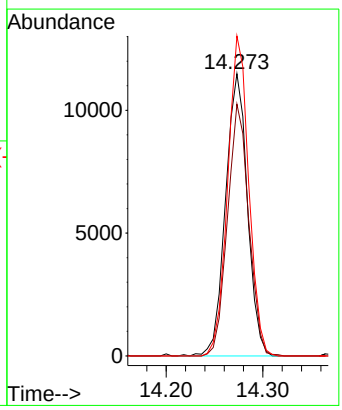


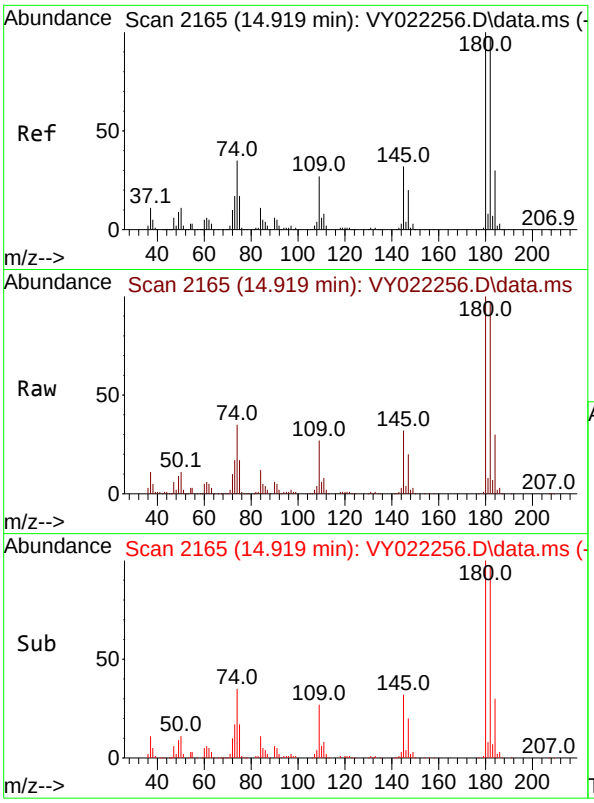


#92
1,2-Dibromo-3-Chloropropane
Concen: 48.682 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion: 75 Resp: 18039

Ion	Ratio	Lower	Upper
75	100		
155	86.7	43.4	130.1
157	109.3	54.6	163.9



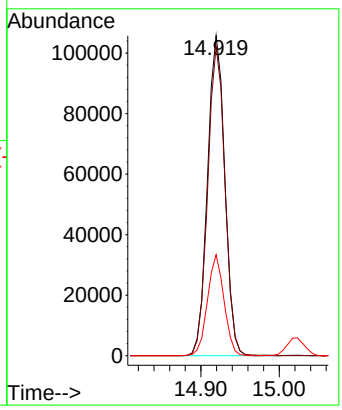


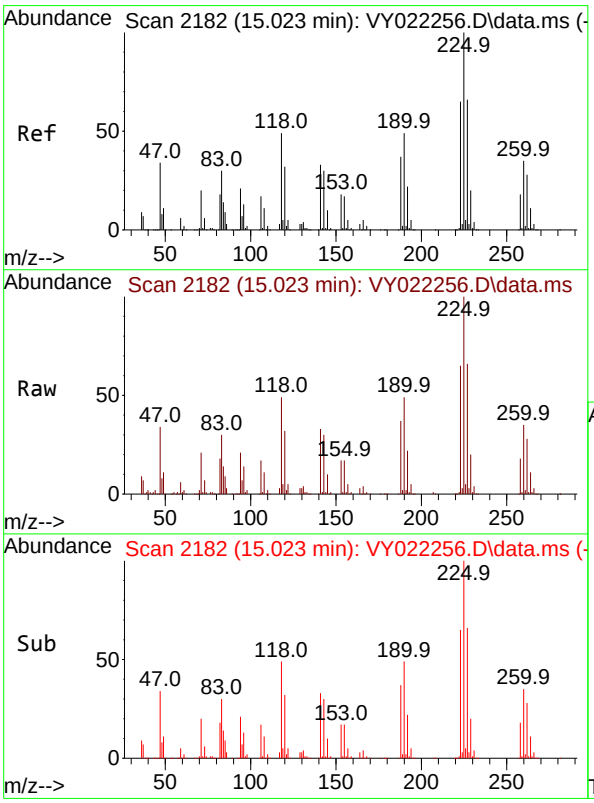
#93
1,2,4-Trichlorobenzene
Concen: 51.338 ug/l
RT: 14.919 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion:180 Resp: 162275

Ion	Ratio	Lower	Upper
180	100		
182	96.0	48.0	144.0
145	30.1	15.0	45.1

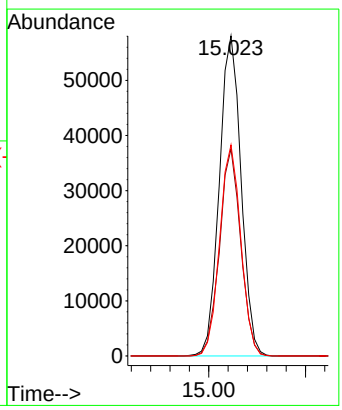


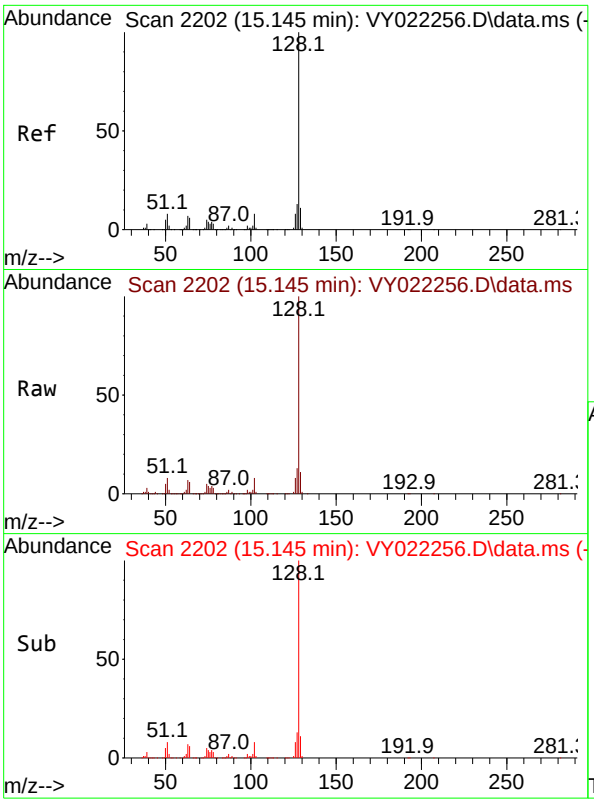


#94
Hexachlorobutadiene
Concen: 51.313 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion:225 Resp: 90452

Ion	Ratio	Lower	Upper
225	100		
223	63.0	31.5	94.5
227	64.2	32.1	96.3



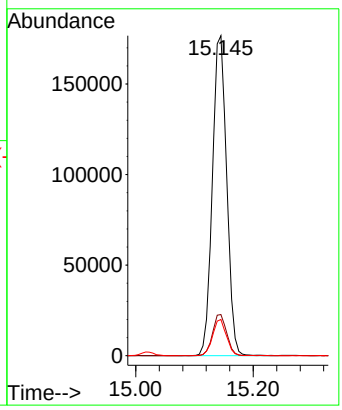


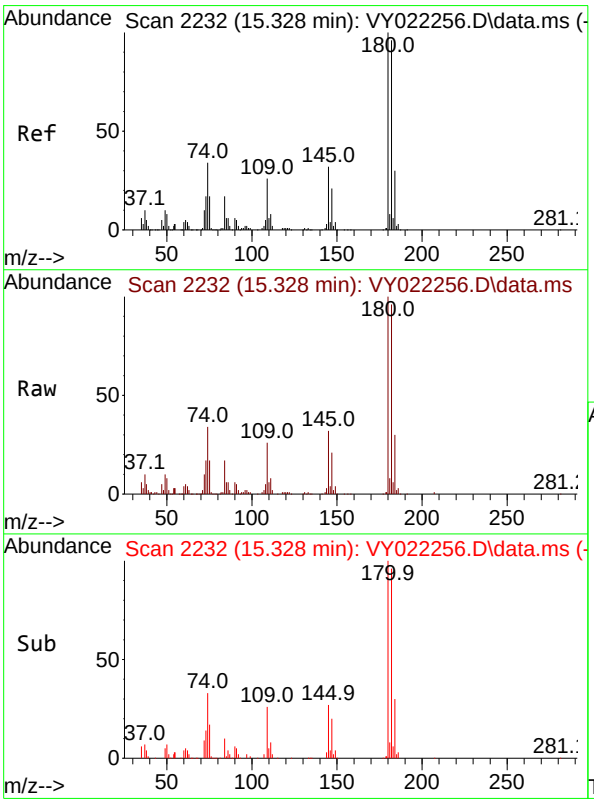
#95
Naphthalene
Concen: 49.692 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion:128 Resp: 298075

Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.2	15.2
129	11.0	8.8	13.2

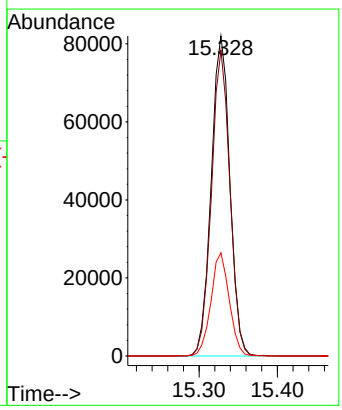




#96
1,2,3-Trichlorobenzene
Concen: 50.596 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. 0.000 min
Lab File: VY022256.D
Acq: 15 May 2025 11:02

Tgt Ion:180 Resp: 135673

Ion	Ratio	Lower	Upper
180	100		
182	94.2	47.1	141.3
145	31.7	15.9	47.6



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022257.D
Acq On : 15 May 2025 11:24
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Quant Time: May 16 01:24:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:19:39 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	268393	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	443341	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	385348	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	189780	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	292533	99.729	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 199.460%#			
35) Dibromofluoromethane	7.634	113	262995	99.389	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 198.780%#			
50) Toluene-d8	10.103	98	1076035	99.289	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 198.580%#			
62) 4-Bromofluorobenzene	12.408	95	343397	99.968	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 199.940%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.861	85	252438	90.138	ug/l	99
3) Chloromethane	2.062	50	561441	95.302	ug/l	100
4) Vinyl Chloride	2.202	62	639001	97.085	ug/l	96
5) Bromomethane	2.586	94	512452	95.642	ug/l	98
6) Chloroethane	2.732	64	393556	96.113	ug/l	99
7) Trichlorofluoromethane	3.049	101	650265	97.581	ug/l	100
8) Diethyl Ether	3.452	74	158375	99.031	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.812	101	272288	94.120	ug/l	99
10) Methyl Iodide	4.000	142	349345	104.334	ug/l	100
11) Tert butyl alcohol	4.872	59	112593	502.655	ug/l #	100
12) 1,1-Dichloroethene	3.787	96	277897	96.798	ug/l	97
13) Acrolein	3.653	56	156649	478.373	ug/l	99
14) Allyl chloride	4.378	41	500514	99.429	ug/l	100
15) Acrylonitrile	5.055	53	340325	516.458	ug/l	99
16) Acetone	3.872	43	252327	458.767	ug/l	99
17) Carbon Disulfide	4.104	76	901081	96.251	ug/l	99
18) Methyl Acetate	4.385	43	185837	111.043	ug/l	100
19) Methyl tert-butyl Ether	5.116	73	807404	101.997	ug/l	98
20) Methylene Chloride	4.610	84	305912	86.076	ug/l	98
21) trans-1,2-Dichloroethene	5.116	96	311460	98.288	ug/l	97
22) Diisopropyl ether	6.018	45	1075035	101.128	ug/l	99
23) Vinyl Acetate	5.957	43	3259000	507.456	ug/l	100
24) 1,1-Dichloroethane	5.915	63	586479	98.750	ug/l	99
25) 2-Butanone	6.890	43	467301	507.932	ug/l	97
26) 2,2-Dichloropropane	6.884	77	515990	97.682	ug/l	100
27) cis-1,2-Dichloroethene	6.890	96	368826	100.861	ug/l	100
28) Bromochloromethane	7.244	49	251676	99.349	ug/l	100
29) Tetrahydrofuran	7.262	42	312286	527.609	ug/l	100
30) Chloroform	7.421	83	565823	99.326	ug/l	98
31) Cyclohexane	7.701	56	535839	90.301	ug/l	99
32) 1,1,1-Trichloroethane	7.616	97	506927	96.995	ug/l	100
36) 1,1-Dichloropropene	7.835	75	429153	98.465	ug/l	99
37) Ethyl Acetate	6.982	43	213152	101.642	ug/l	99
38) Carbon Tetrachloride	7.817	117	451589	100.097	ug/l	98
39) Methylcyclohexane	9.109	83	566259	96.704	ug/l	98
40) Benzene	8.079	78	1313733	101.677	ug/l	100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022257.D
Acq On : 15 May 2025 11:24
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Quant Time: May 16 01:24:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:19:39 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.219	41	113489	73.960	ug/l	#	78
42) 1,2-Dichloroethane	8.158	62	356974	102.165	ug/l		100
43) Isopropyl Acetate	8.195	43	473430	103.517	ug/l		99
44) Trichloroethene	8.865	130	315543	98.218	ug/l		97
45) 1,2-Dichloropropane	9.140	63	314179	100.858	ug/l		98
46) Dibromomethane	9.231	93	170712	101.606	ug/l		99
47) Bromodichloromethane	9.420	83	446829	102.514	ug/l		99
48) Methyl methacrylate	9.219	41	229512	107.308	ug/l		100
49) 1,4-Dioxane	9.231	88	37780	1990.455	ug/l		98
51) 4-Methyl-2-Pentanone	9.999	43	1218685	543.068	ug/l		100
52) Toluene	10.170	92	839400	102.593	ug/l		99
53) t-1,3-Dichloropropene	10.390	75	441672	103.832	ug/l		100
54) cis-1,3-Dichloropropene	9.853	75	498023	102.190	ug/l		99
55) 1,1,2-Trichloroethane	10.572	97	219460	102.005	ug/l		99
56) Ethyl methacrylate	10.438	69	353013	105.335	ug/l		98
57) 1,3-Dichloropropane	10.719	76	391514	102.420	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.713	63	872907	580.295	ug/l		99
59) 2-Hexanone	10.761	43	809288	537.872	ug/l		100
60) Dibromochloromethane	10.908	129	292143	104.616	ug/l		99
61) 1,2-Dibromoethane	11.011	107	207266	103.362	ug/l		99
64) Tetrachloroethene	10.646	164	343677	96.489	ug/l		99
65) Chlorobenzene	11.438	112	881086	101.346	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.517	131	307866	103.007	ug/l		99
67) Ethyl Benzene	11.517	91	1674355	102.836	ug/l		99
68) m/p-Xylenes	11.627	106	1271299	207.213	ug/l		100
69) o-Xylene	11.956	106	602390	103.777	ug/l		99
70) Styrene	11.969	104	1028498	105.038	ug/l		100
71) Bromoform	12.133	173	168679	104.561	ug/l	#	99
73) Isopropylbenzene	12.255	105	1528857	97.241	ug/l		99
74) N-amyl acetate	12.066	43	468707	104.235	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.505	83	244830	101.255	ug/l		100
76) 1,2,3-Trichloropropane	12.554	75	363417	108.654	ug/l	#	100
77) Bromobenzene	12.529	156	337329	100.456	ug/l		99
78) n-propylbenzene	12.597	91	1846449	97.365	ug/l		100
79) 2-Chlorotoluene	12.676	91	1026401	98.488	ug/l		99
80) 1,3,5-Trimethylbenzene	12.737	105	1233838	97.216	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.304	75	93252	98.251	ug/l		98
82) 4-Chlorotoluene	12.779	91	1061772	99.052	ug/l		99
83) tert-Butylbenzene	12.999	119	1092617	96.859	ug/l		99
84) 1,2,4-Trimethylbenzene	13.042	105	1263612	100.297	ug/l		100
85) sec-Butylbenzene	13.176	105	1634720	97.623	ug/l		100
86) p-Isopropyltoluene	13.291	119	1424684	101.161	ug/l		99
87) 1,3-Dichlorobenzene	13.285	146	697868	101.803	ug/l		99
88) 1,4-Dichlorobenzene	13.365	146	654104	99.199	ug/l		99
89) n-Butylbenzene	13.615	91	1310061	98.327	ug/l		99
90) Hexachloroethane	13.877	117	275652	96.961	ug/l		100
91) 1,2-Dichlorobenzene	13.657	146	576915	100.192	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	41275	105.859	ug/l		95
93) 1,2,4-Trichlorobenzene	14.919	180	342939	103.107	ug/l		100
94) Hexachlorobutadiene	15.023	225	180060	97.075	ug/l		100
95) Naphthalene	15.145	128	674950	106.935	ug/l		100
96) 1,2,3-Trichlorobenzene	15.328	180	294823	104.488	ug/l		99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022257.D
Acq On : 15 May 2025 11:24
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Quant Time: May 16 01:24:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:19:39 2025
Response via : Initial Calibration

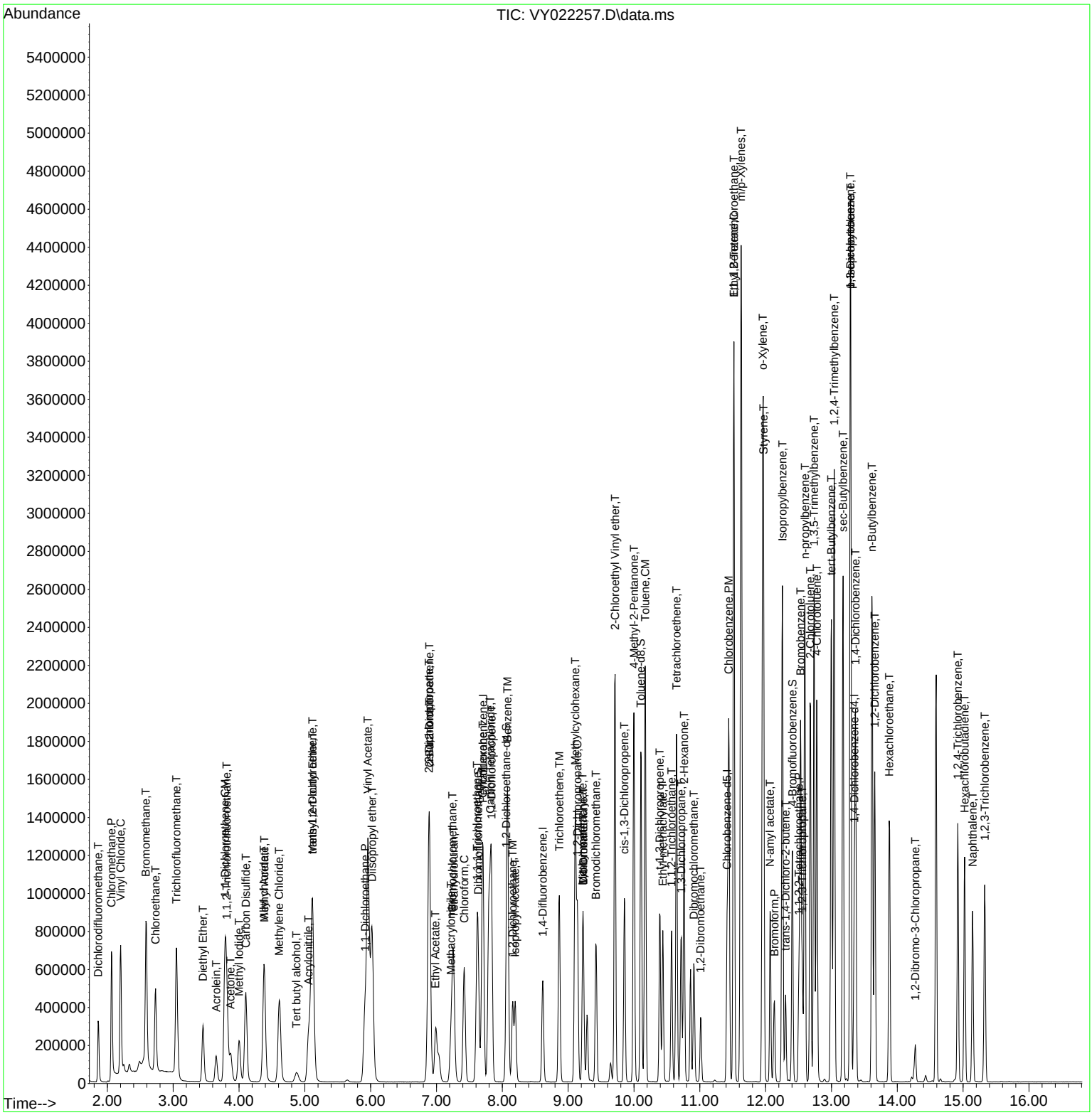
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

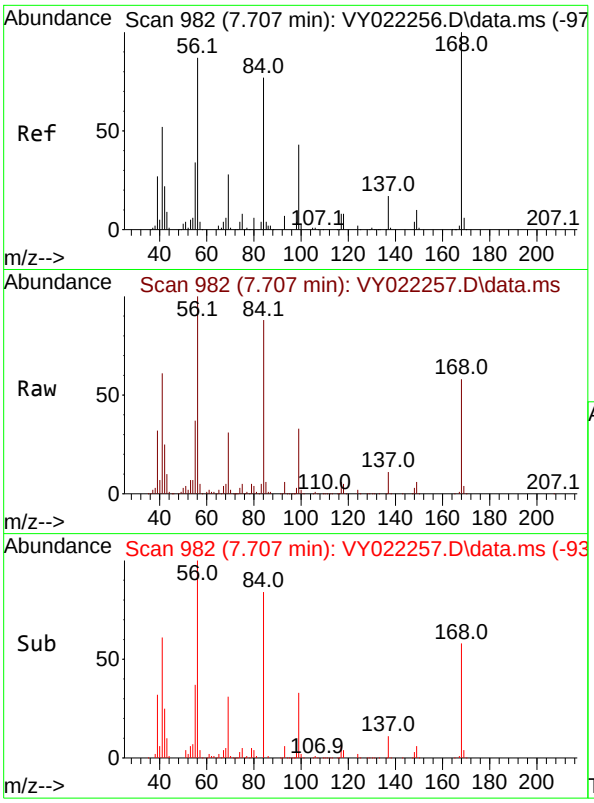
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022257.D
Acq On : 15 May 2025 11:24
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Quant Time: May 16 01:24:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:19:39 2025
Response via : Initial Calibration



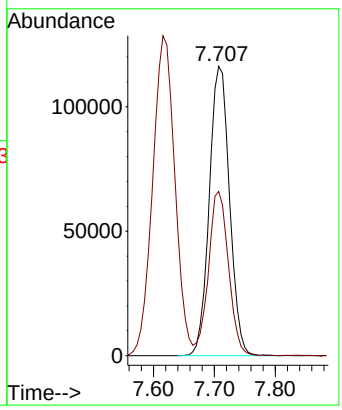


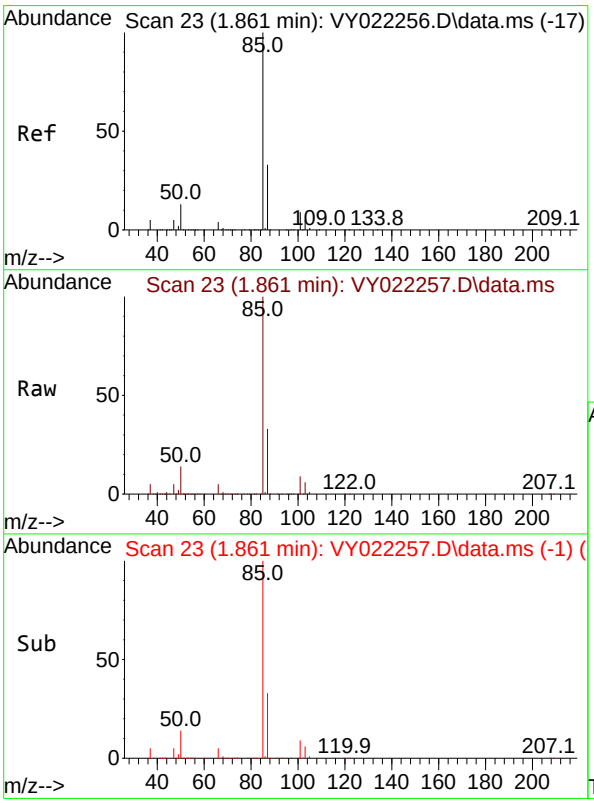
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion:168 Resp: 268393

Ion	Ratio	Lower	Upper
168	100		
99	56.7	44.2	66.4

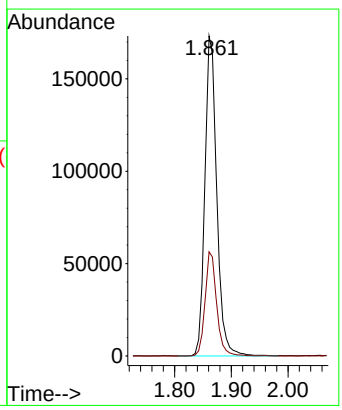


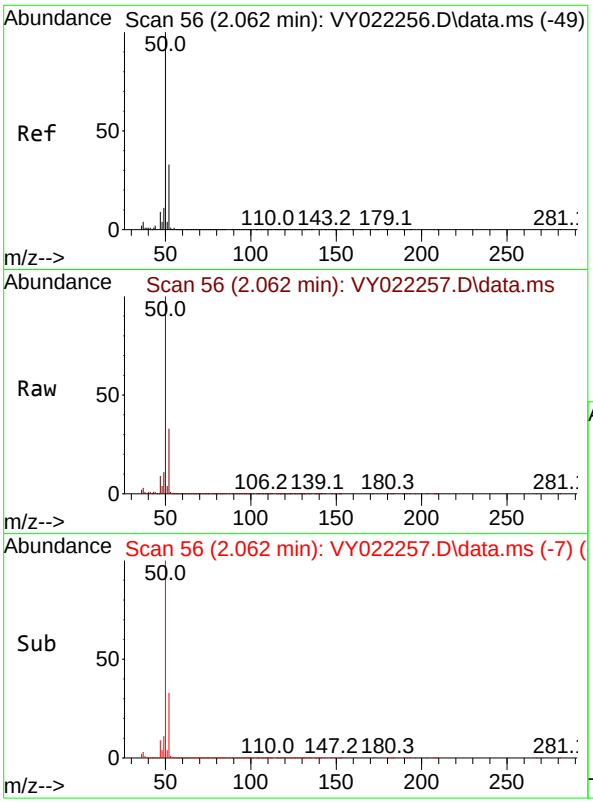


#2
Dichlorodifluoromethane
Concen: 90.138 ug/l
RT: 1.861 min Scan# 23
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 85 Resp: 252438

Ion	Ratio	Lower	Upper
85	100		
87	32.6	16.5	49.5



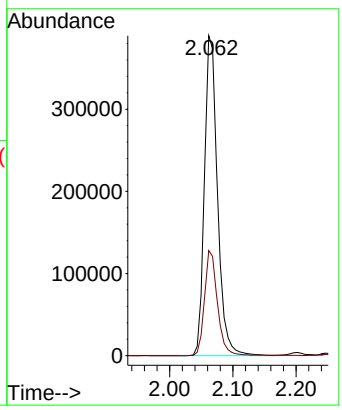


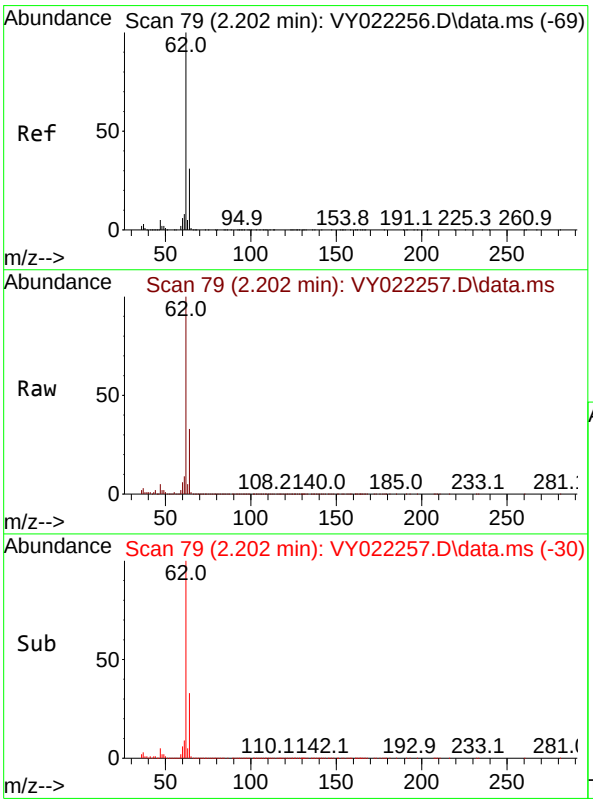
#3
Chloromethane
Concen: 95.302 ug/l
RT: 2.062 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 50 Resp: 561441

Ion	Ratio	Lower	Upper
50	100		
52	32.9	26.5	39.7

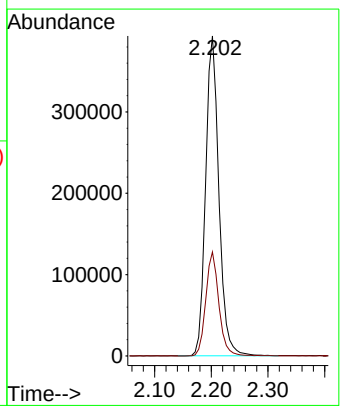


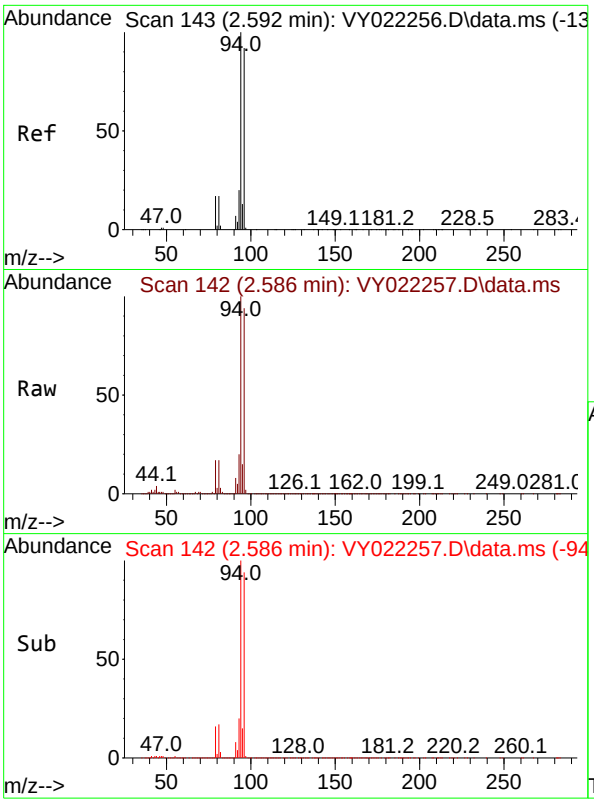


#4
Vinyl Chloride
Concen: 97.085 ug/l
RT: 2.202 min Scan# 79
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 62 Resp: 639001

Ion	Ratio	Lower	Upper
62	100		
64	32.5	24.5	36.7



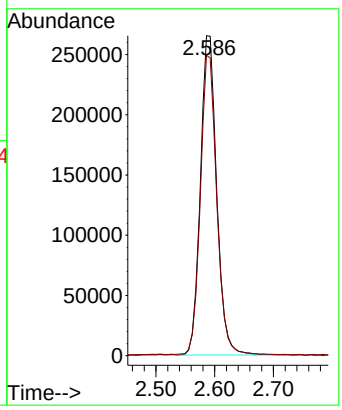


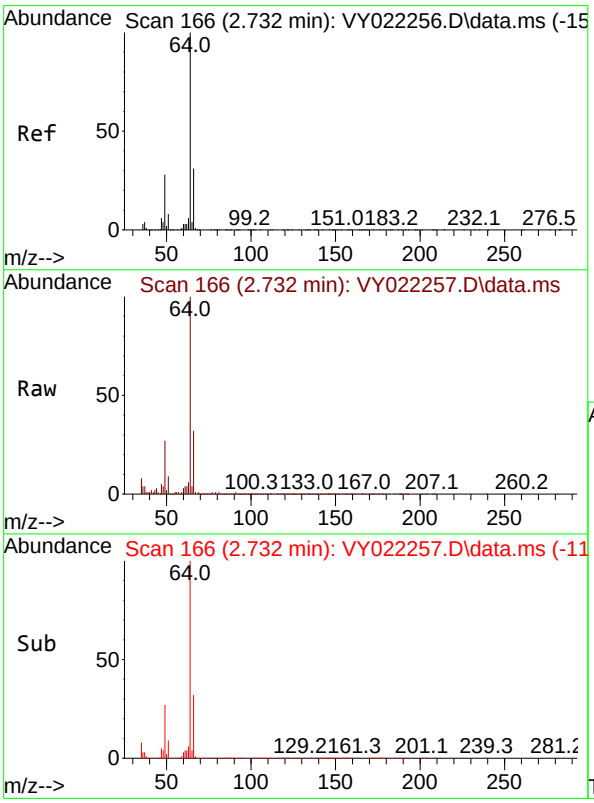
#5
Bromomethane
Concen: 95.642 ug/l
RT: 2.586 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 94 Resp: 512452

Ion	Ratio	Lower	Upper
94	100		
96	93.7	73.4	110.0

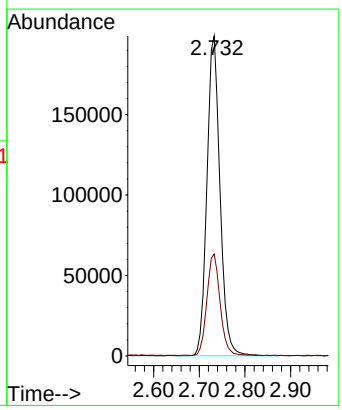


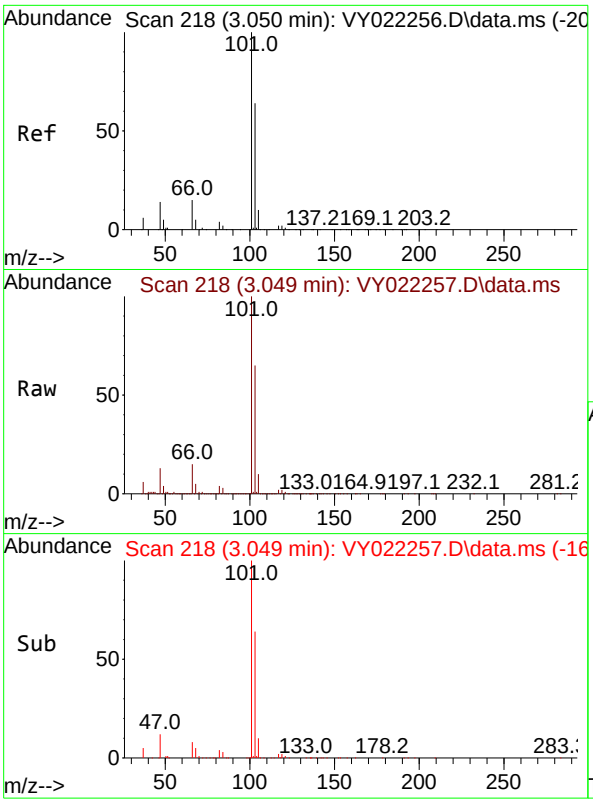


#6
Chloroethane
Concen: 96.113 ug/l
RT: 2.732 min Scan# 166
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 64 Resp: 393556

Ion	Ratio	Lower	Upper
64	100		
66	31.7	24.8	37.2



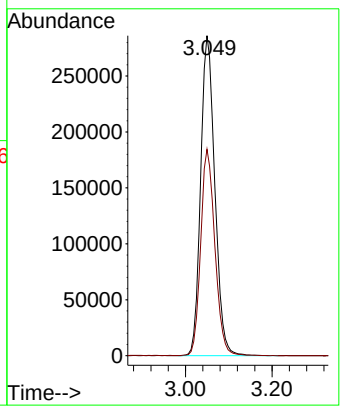


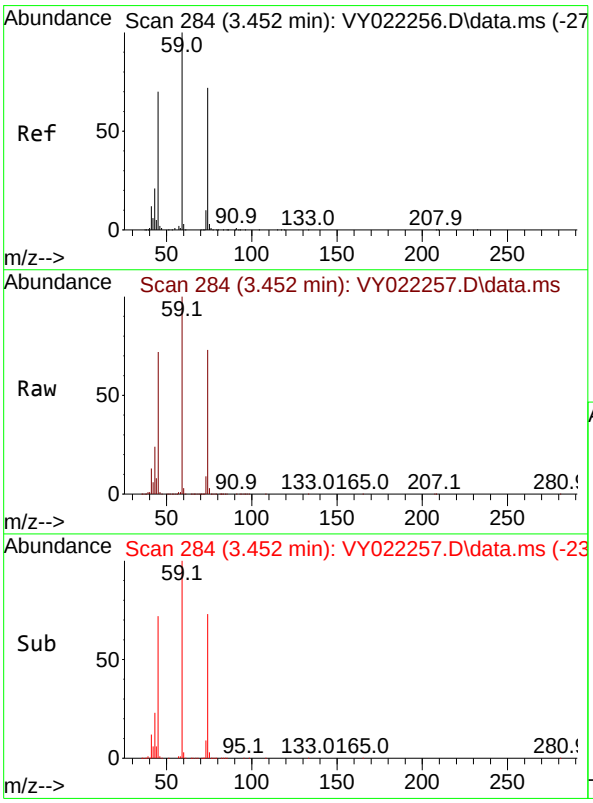
#7
Trichlorofluoromethane
Concen: 97.581 ug/l
RT: 3.049 min Scan# 21
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion:101 Resp: 650265

Ion	Ratio	Lower	Upper
101	100		
103	64.5	51.7	77.5

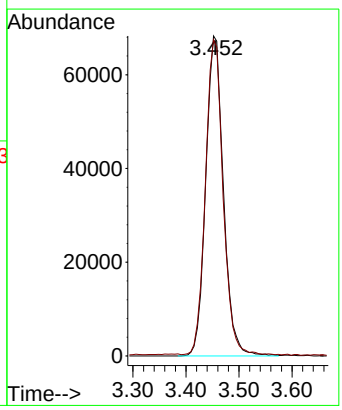


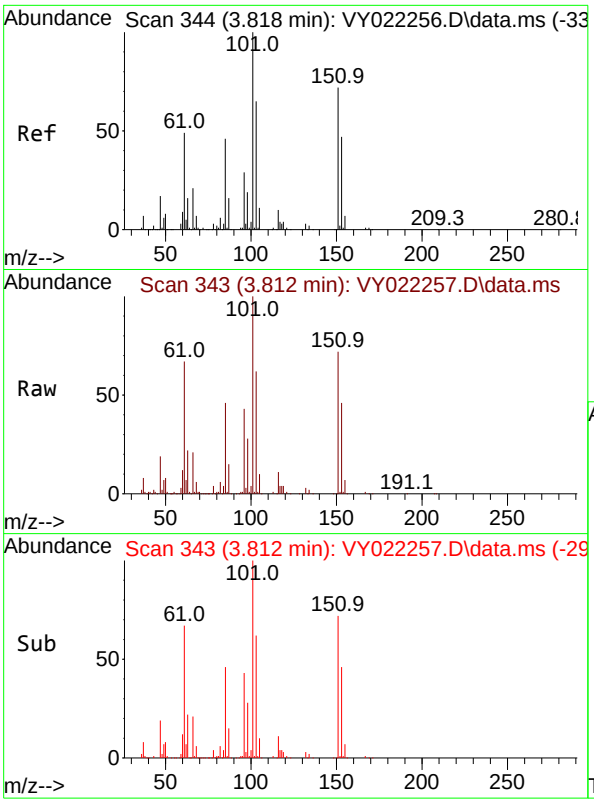


#8
Diethyl Ether
Concen: 99.031 ug/l
RT: 3.452 min Scan# 284
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 74 Resp: 158375

Ion	Ratio	Lower	Upper
74	100		
45	97.9	48.6	145.8



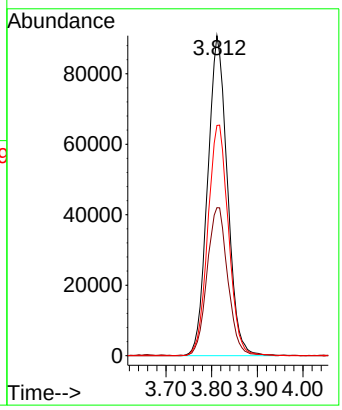


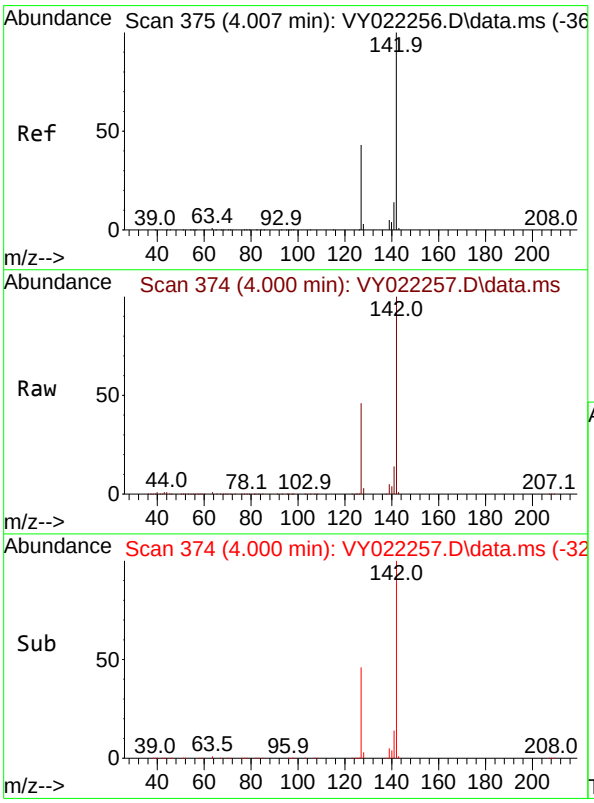
#9
1,1,2-Trichlorotrifluoroethane
Concen: 94.120 ug/l
RT: 3.812 min Scan# 34
Delta R.T. -0.006 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion:101 Resp: 272288

Ion	Ratio	Lower	Upper
101	100		
85	48.8	38.6	58.0
151	75.3	59.7	89.5

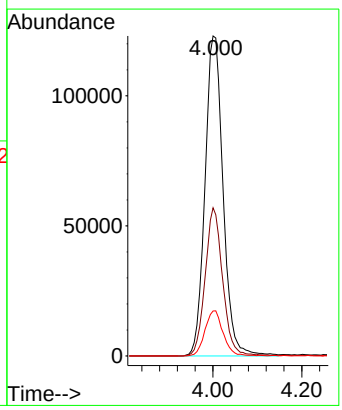


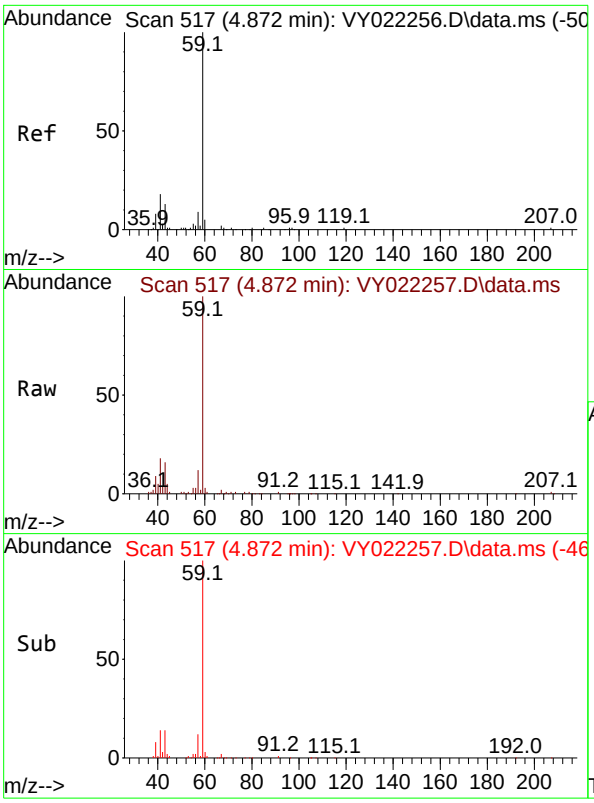


#10
Methyl Iodide
Concen: 104.334 ug/l
RT: 4.000 min Scan# 374
Delta R.T. -0.006 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion:142 Resp: 349345

Ion	Ratio	Lower	Upper
142	100		
127	44.8	35.7	53.5
141	14.1	11.1	16.7



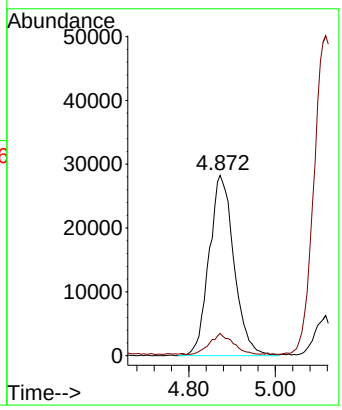


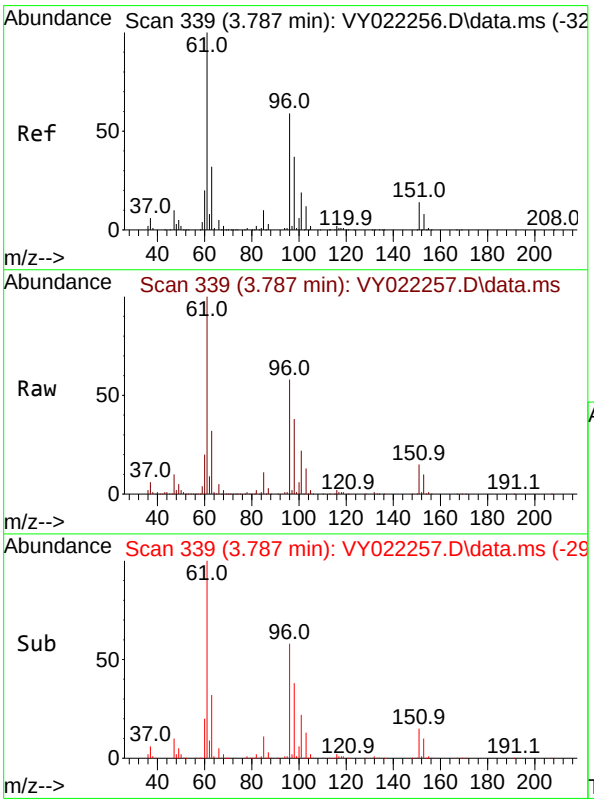
#11
Tert butyl alcohol
Concen: 502.655 ug/l
RT: 4.872 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 59 Resp: 112593

Ion	Ratio	Lower	Upper
59	100		
57	10.6	0.0	0.0#

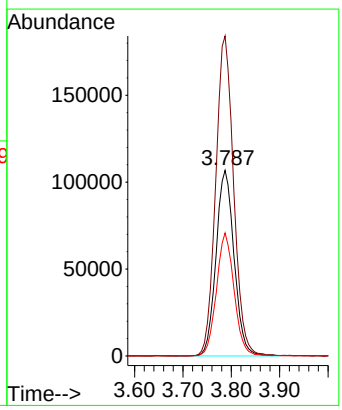


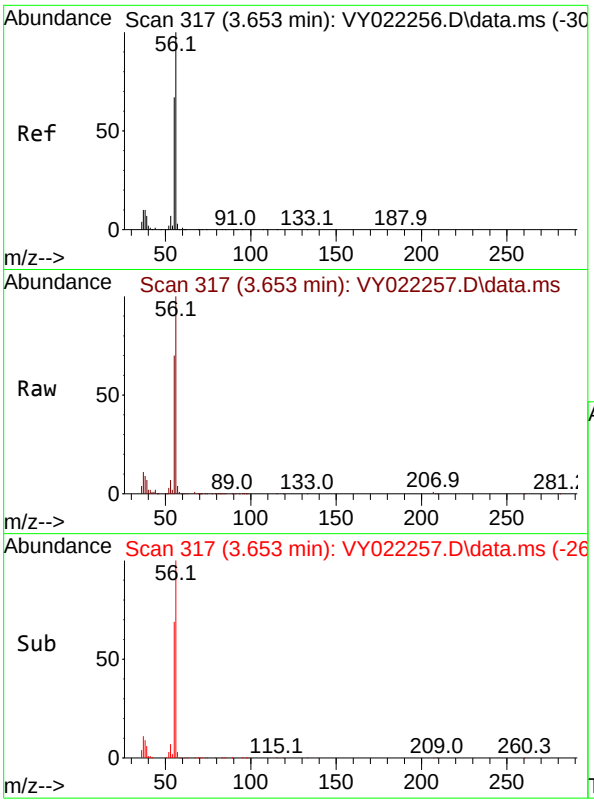


#12
1,1-Dichloroethene
Concen: 96.798 ug/l
RT: 3.787 min Scan# 339
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 96 Resp: 277897

Ion	Ratio	Lower	Upper
96	100		
61	172.4	134.9	202.3
98	66.2	49.9	74.9



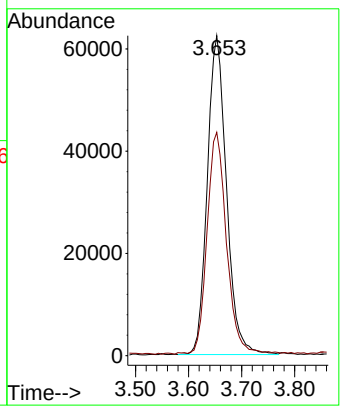


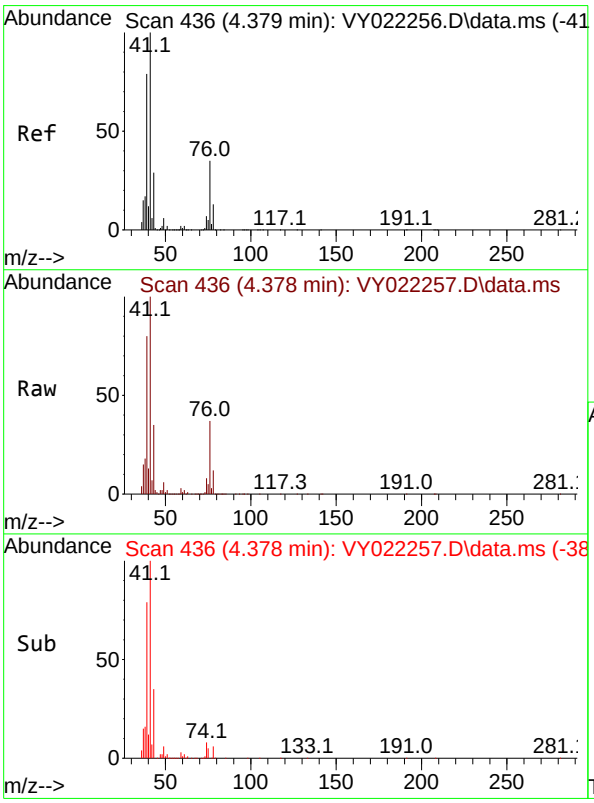
#13
Acrolein
Concen: 478.373 ug/l
RT: 3.653 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 56 Resp: 156649

Ion	Ratio	Lower	Upper
56	100		
55	70.4	55.6	83.4

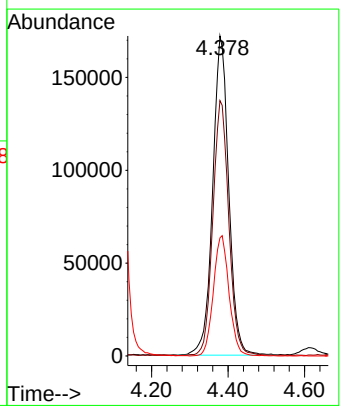


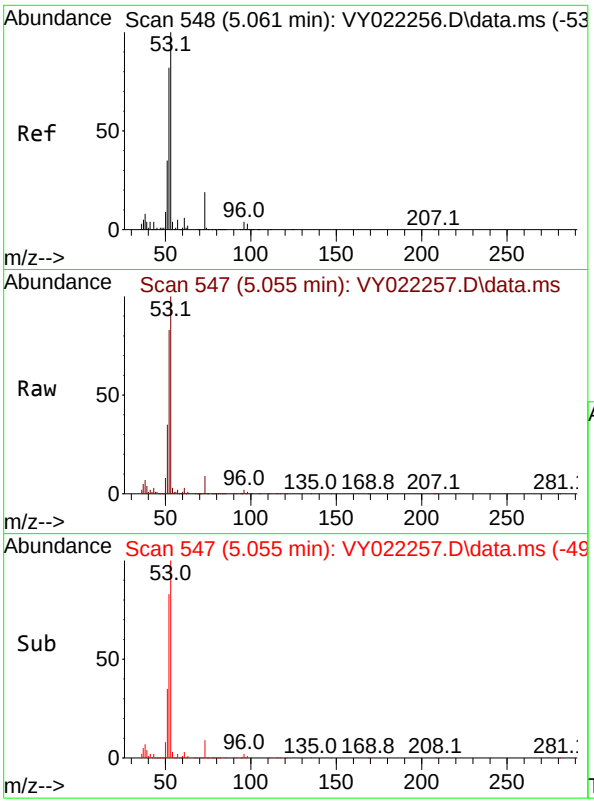


#14
Allyl chloride
Concen: 99.429 ug/l
RT: 4.378 min Scan# 436
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 41 Resp: 500514

Ion	Ratio	Lower	Upper
41	100		
39	79.4	63.4	95.0
76	36.9	29.5	44.3



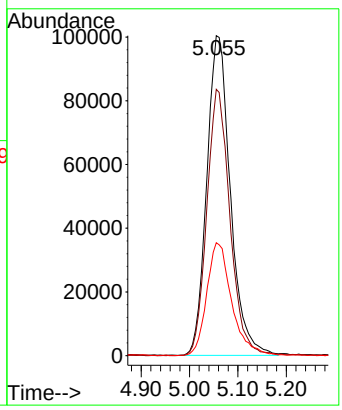


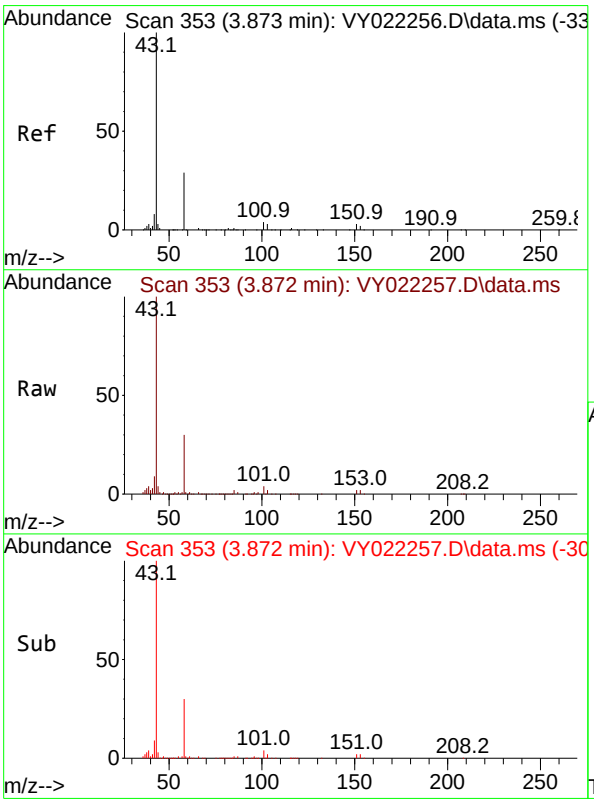
#15
Acrylonitrile
Concen: 516.458 ug/l
RT: 5.055 min Scan# 54
Delta R.T. -0.006 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 53 Resp: 340325

Ion	Ratio	Lower	Upper
53	100		
52	81.9	66.1	99.1
51	37.4	30.0	45.0

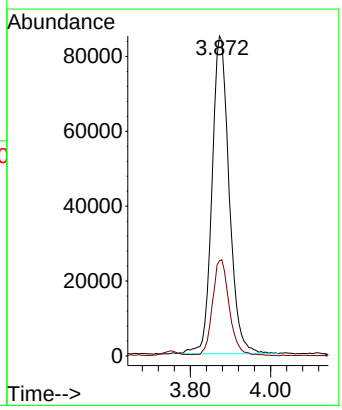


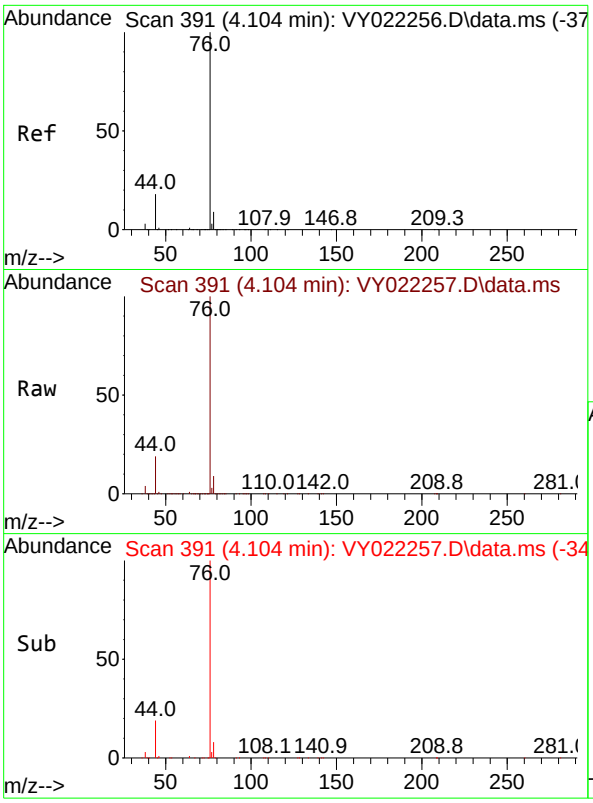


#16
Acetone
Concen: 458.767 ug/l
RT: 3.872 min Scan# 353
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 43 Resp: 252327

Ion	Ratio	Lower	Upper
43	100		
58	29.9	23.6	35.4



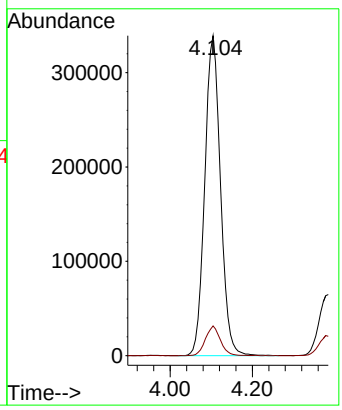


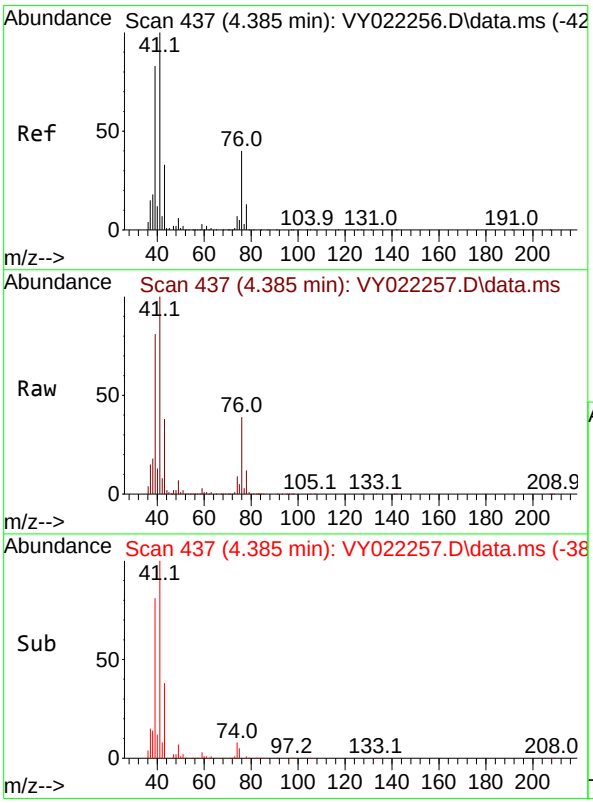
#17
Carbon Disulfide
Concen: 96.251 ug/l
RT: 4.104 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 76 Resp: 901081

Ion	Ratio	Lower	Upper
76	100		
78	9.3	7.2	10.8

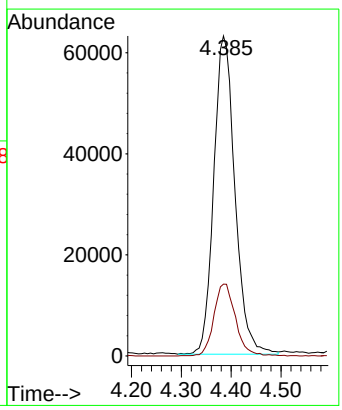


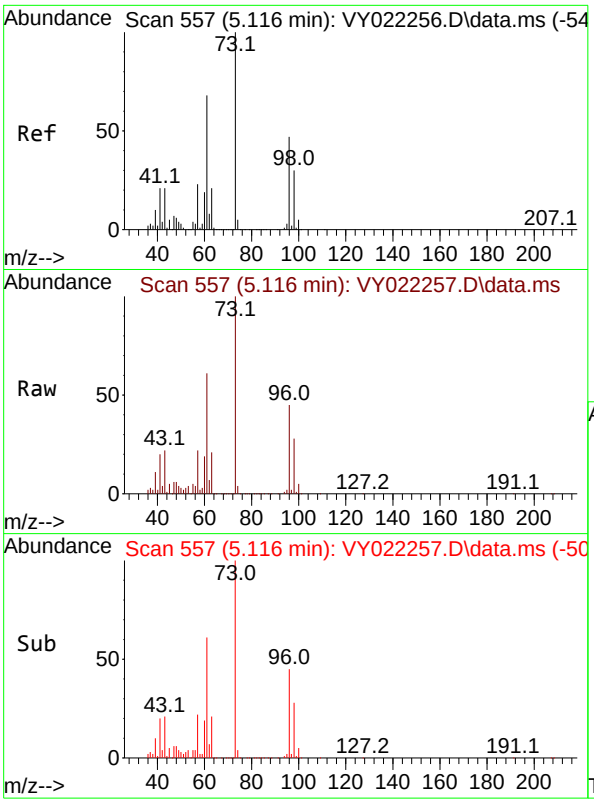


#18
Methyl Acetate
Concen: 111.043 ug/l
RT: 4.385 min Scan# 437
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 43 Resp: 185837

Ion	Ratio	Lower	Upper
43	100		
74	22.9	18.2	27.4



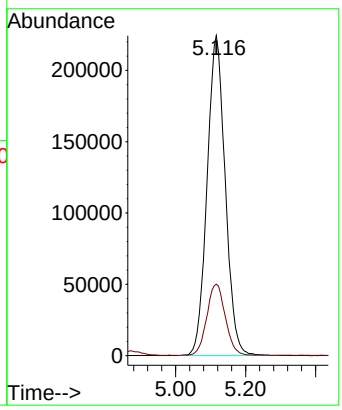


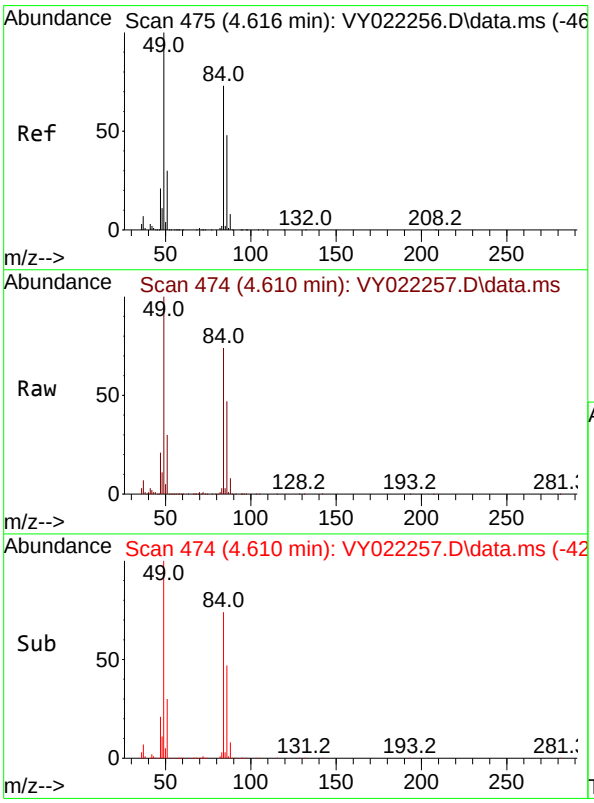
#19
Methyl tert-butyl Ether
Concen: 101.997 ug/l
RT: 5.116 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 73 Resp: 807404

Ion	Ratio	Lower	Upper
73	100		
57	22.3	18.6	28.0

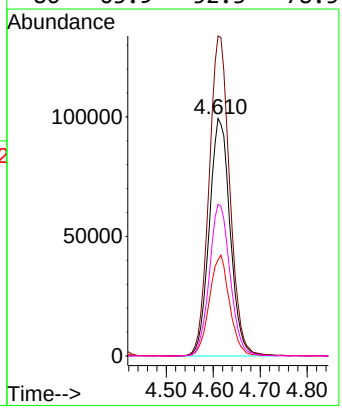


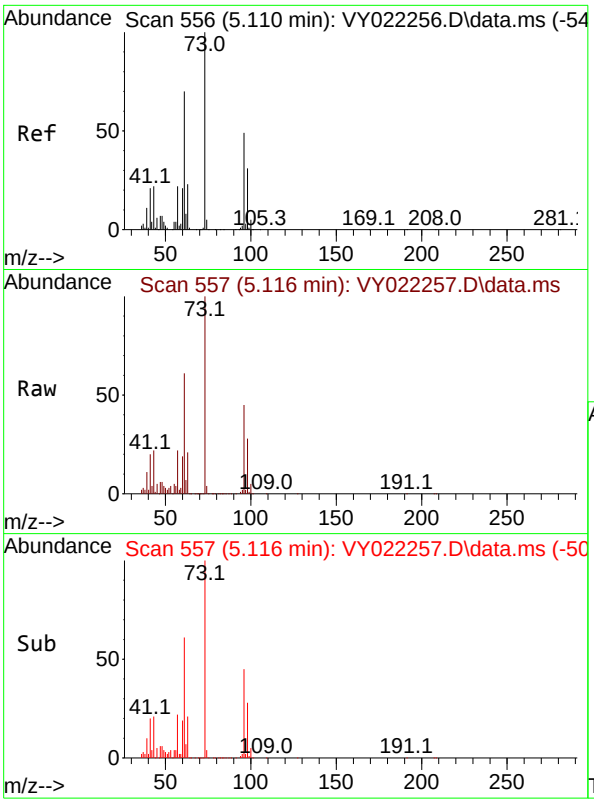


#20
Methylene Chloride
Concen: 86.076 ug/l
RT: 4.610 min Scan# 474
Delta R.T. -0.006 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 84 Resp: 305912

Ion	Ratio	Lower	Upper
84	100		
49	134.8	109.6	164.4
51	40.3	32.4	48.6
86	63.9	52.3	78.5



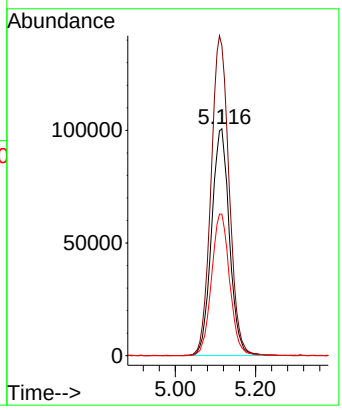


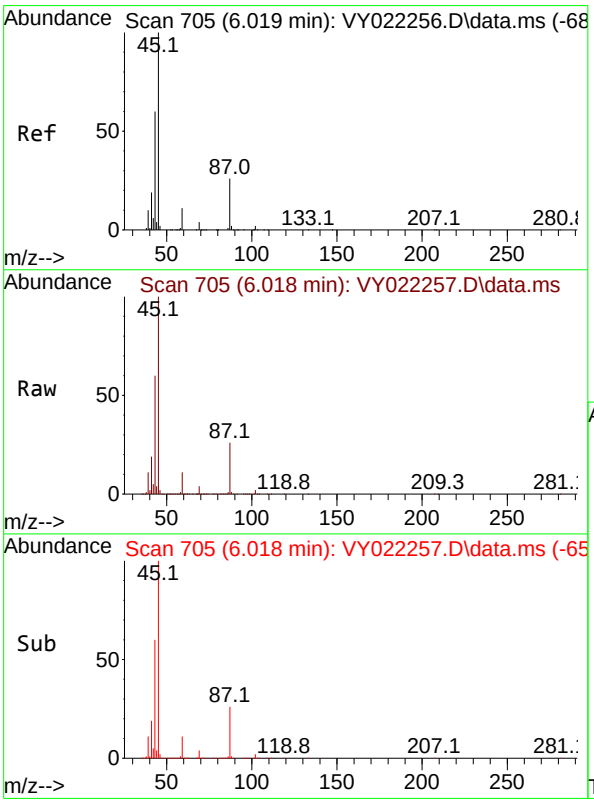
#21
trans-1,2-Dichloroethene
Concen: 98.288 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 96 Resp: 311460

Ion	Ratio	Lower	Upper
96	100		
61	136.7	113.4	170.0
98	62.4	50.9	76.3

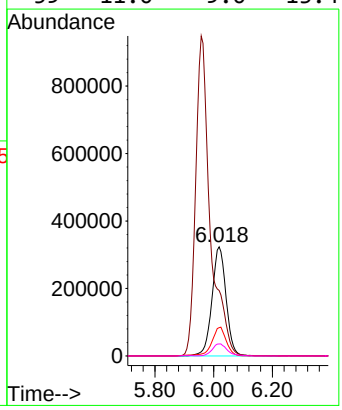


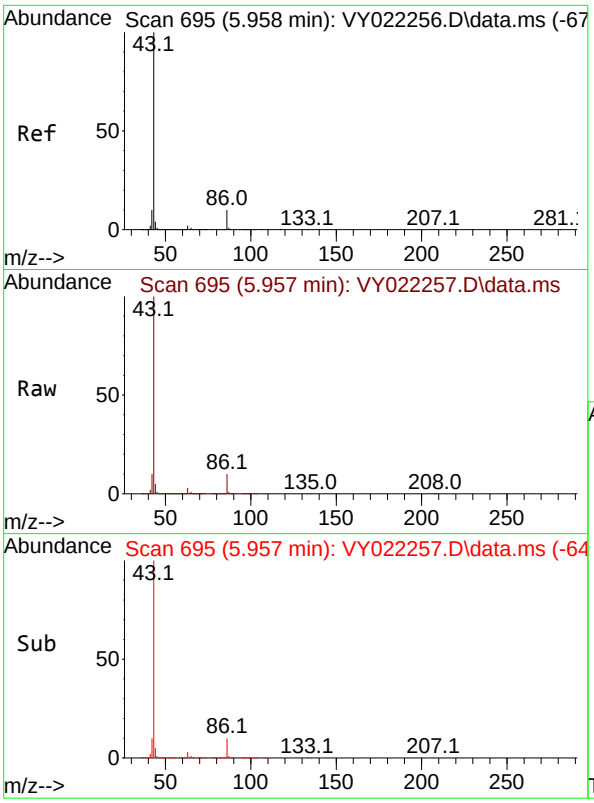


#22
Diisopropyl ether
Concen: 101.128 ug/l
RT: 6.018 min Scan# 705
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 45 Resp: 1075035

Ion	Ratio	Lower	Upper
45	100		
43	59.8	48.2	72.2
87	25.9	21.4	32.0
59	11.0	9.0	13.4



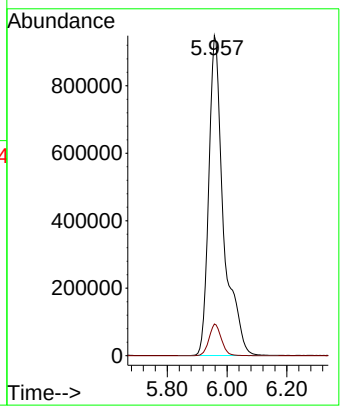


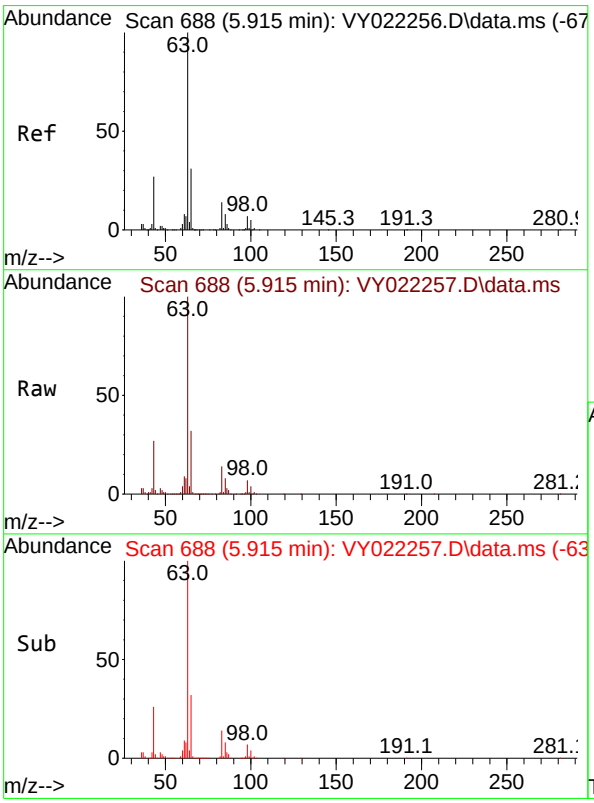
#23
Vinyl Acetate
Concen: 507.456 ug/l
RT: 5.957 min Scan# 6
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 3259000

Ion	Ratio	Lower	Upper
43	100		
86	9.9	7.8	11.8

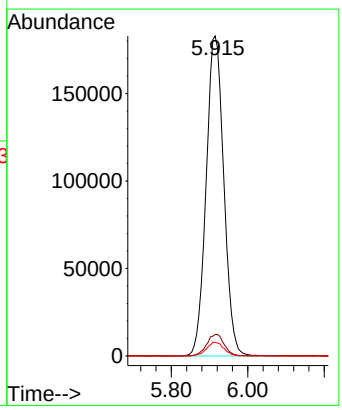


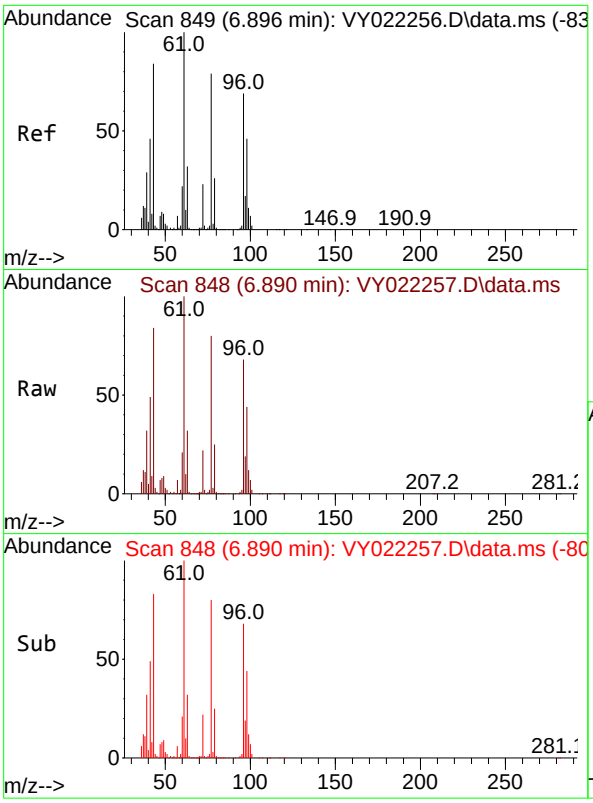


#24
1,1-Dichloroethane
Concen: 98.750 ug/l
RT: 5.915 min Scan# 688
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 63 Resp: 586479

Ion	Ratio	Lower	Upper
63	100		
98	6.7	3.5	10.5
100	4.2	2.4	7.2



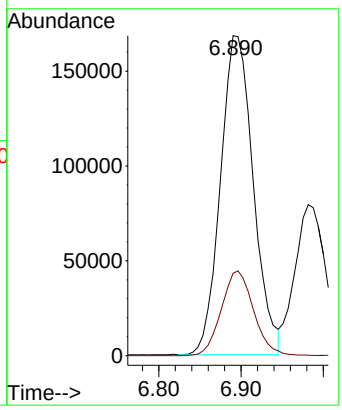


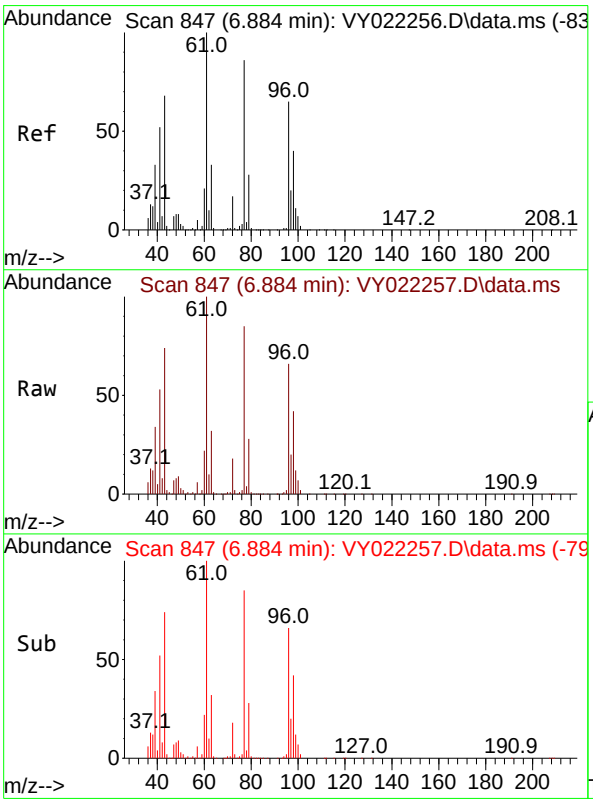
#25
2-Butanone
Concen: 507.932 ug/l
RT: 6.890 min Scan# 84
Delta R.T. -0.006 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 467301

Ion	Ratio	Lower	Upper
43	100		
72	25.8	22.1	33.1

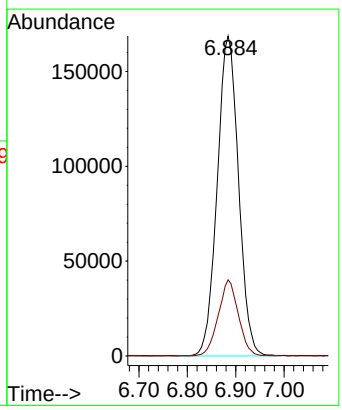


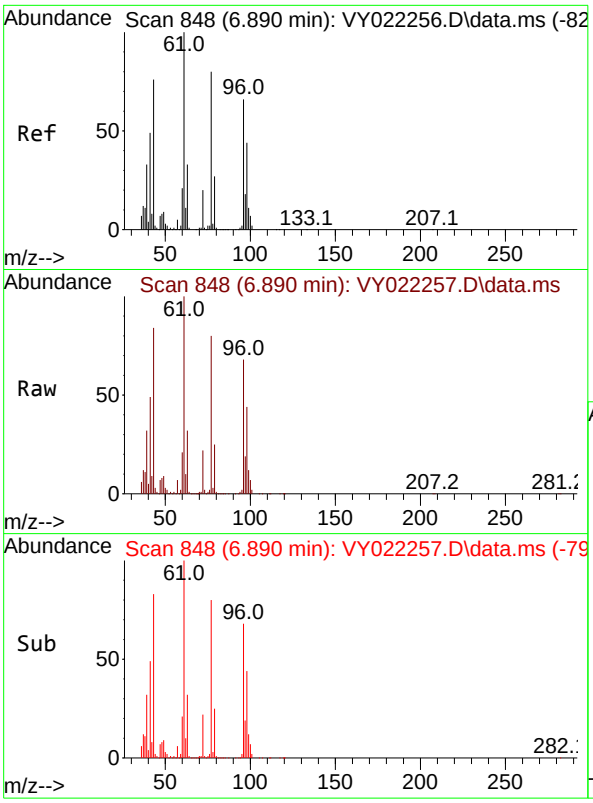


#26
2,2-Dichloropropane
Concen: 97.682 ug/l
RT: 6.884 min Scan# 847
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 77 Resp: 515990

Ion	Ratio	Lower	Upper
77	100		
97	22.5	11.2	33.5



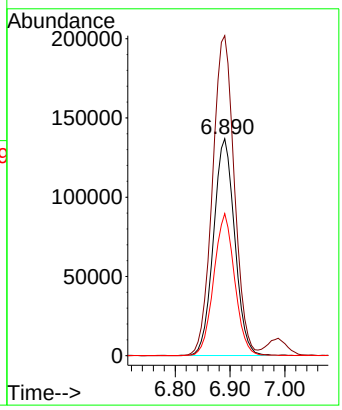


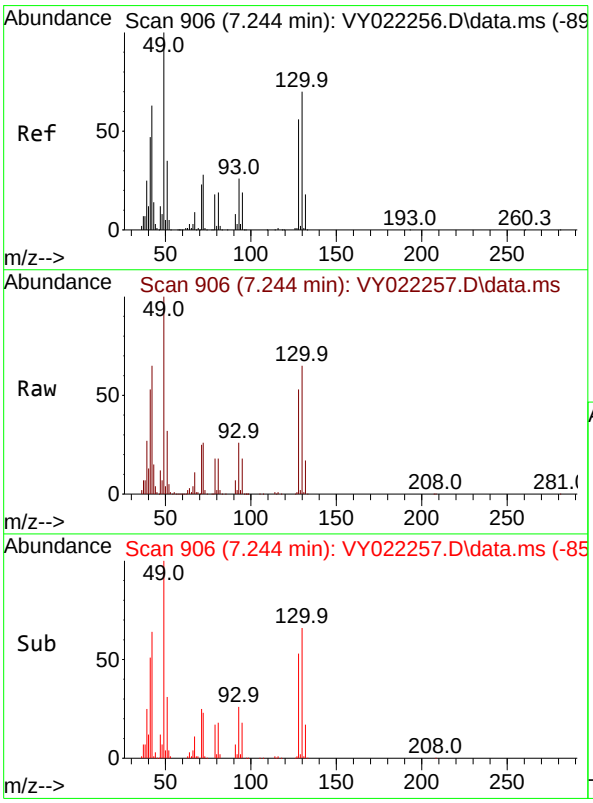
#27
cis-1,2-Dichloroethene
Concen: 100.861 ug/l
RT: 6.890 min Scan# 84
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 96 Resp: 368826

Ion	Ratio	Lower	Upper
96	100		
61	152.0	0.0	302.6
98	64.6	0.0	128.8

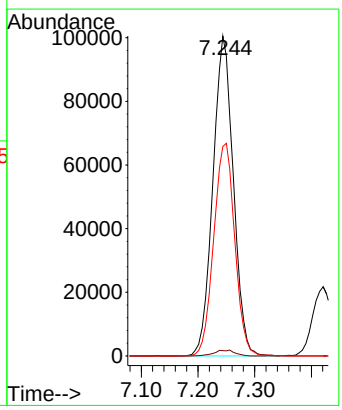


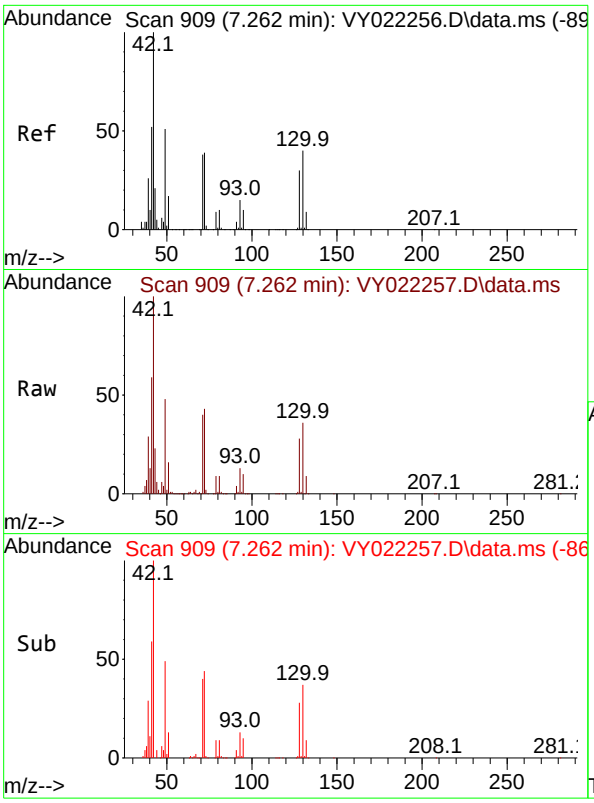


#28
Bromochloromethane
Concen: 99.349 ug/l
RT: 7.244 min Scan# 906
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 49 Resp: 251676

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	3.6
130	68.4	54.7	82.1



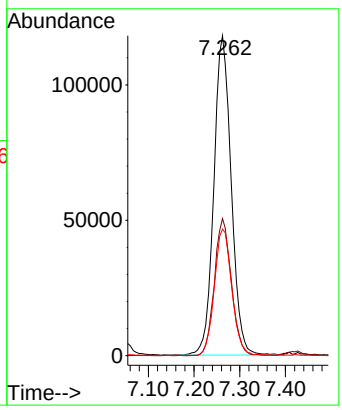


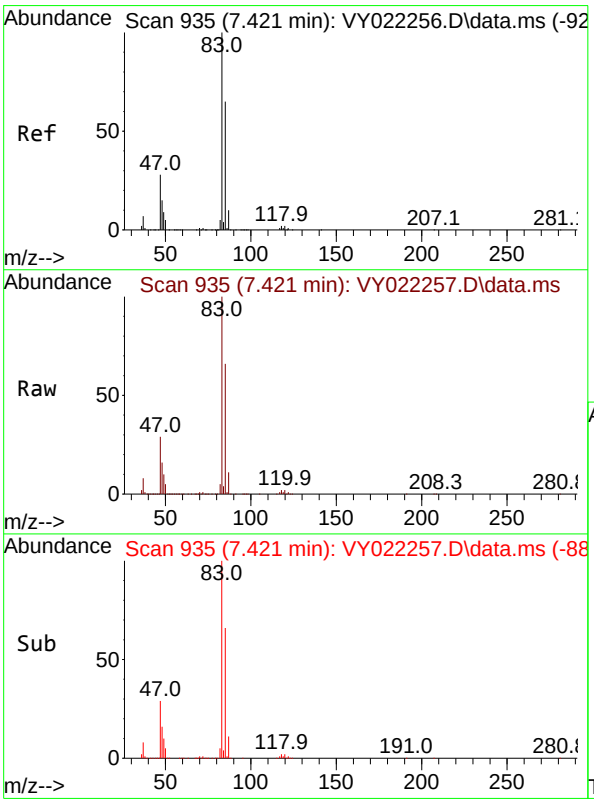
#29
Tetrahydrofuran
Concen: 527.609 ug/l
RT: 7.262 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 42 Resp: 312286

Ion	Ratio	Lower	Upper
42	100		
72	42.0	33.8	50.6
71	39.4	31.5	47.3

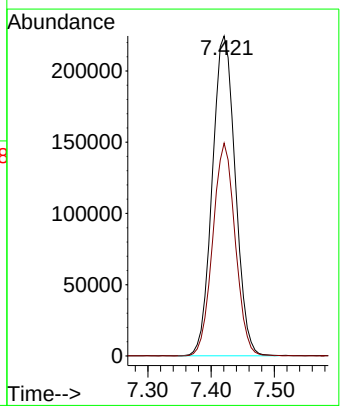


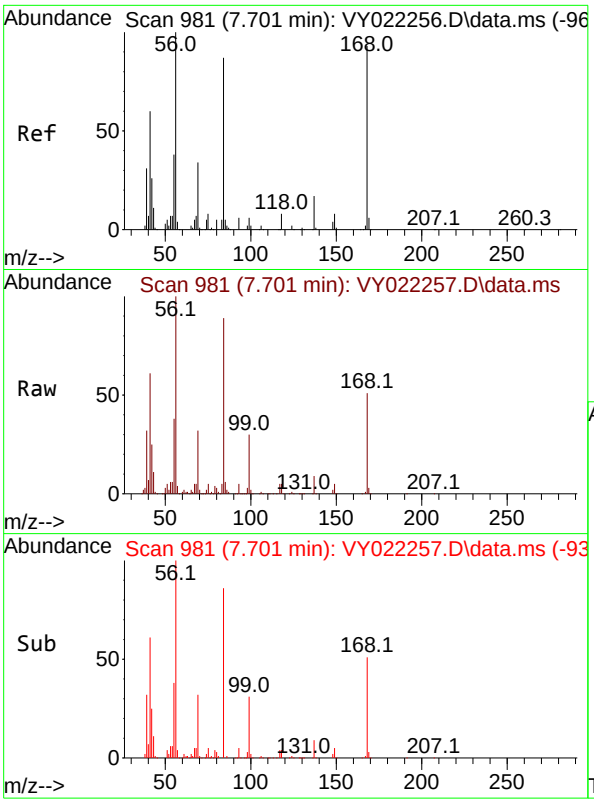


#30
Chloroform
Concen: 99.326 ug/l
RT: 7.421 min Scan# 935
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 83 Resp: 565823

Ion	Ratio	Lower	Upper
83	100		
85	66.5	51.8	77.8



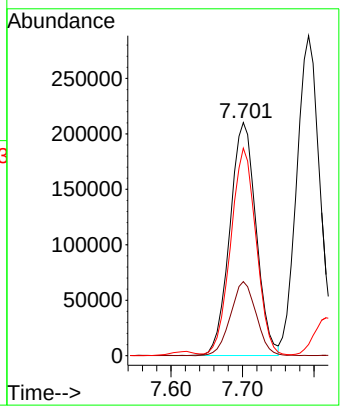


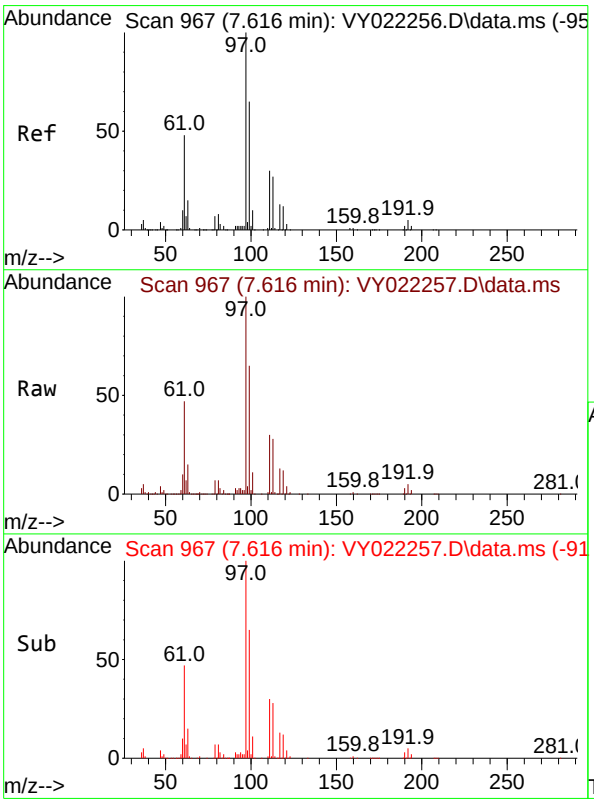
#31
Cyclohexane
Concen: 90.301 ug/l
RT: 7.701 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 56 Resp: 535839

Ion	Ratio	Lower	Upper
56	100		
69	31.8	27.4	41.2
84	87.6	70.0	105.0

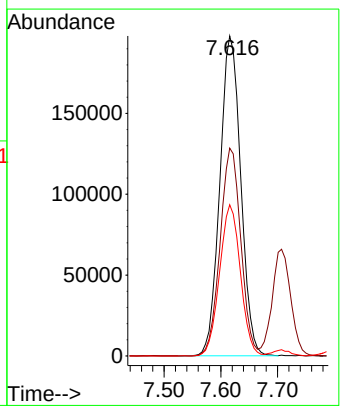


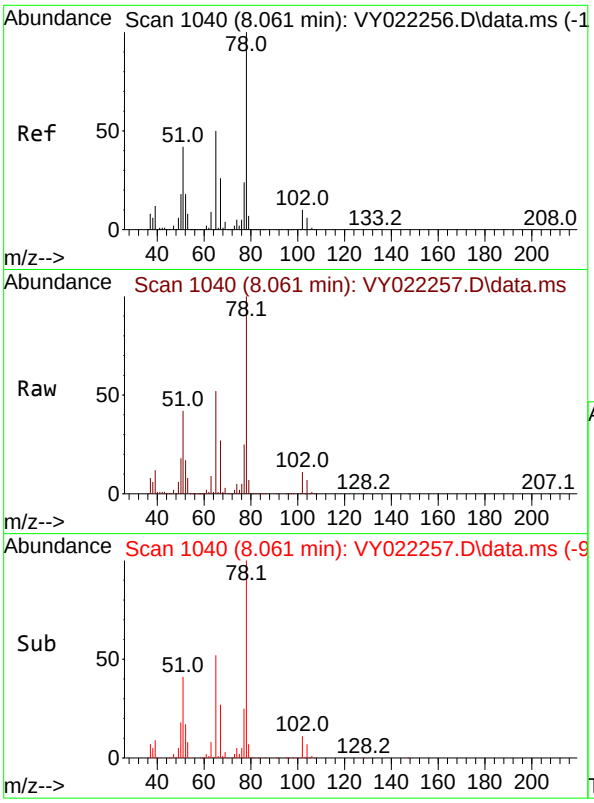


#32
1,1,1-Trichloroethane
Concen: 96.995 ug/l
RT: 7.616 min Scan# 967
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 97 Resp: 506927

Ion	Ratio	Lower	Upper
97	100		
99	64.4	51.4	77.0
61	47.1	38.1	57.1



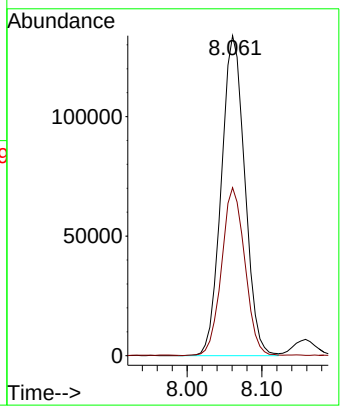


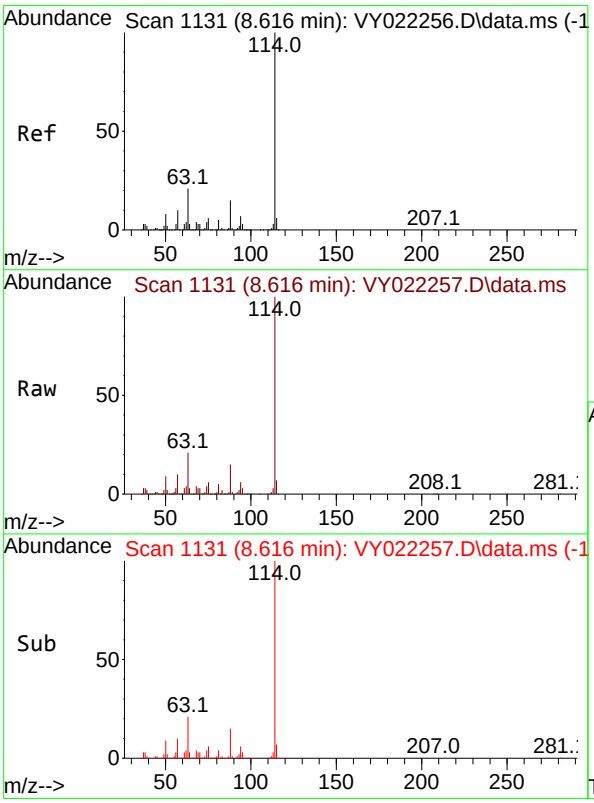
#33
1,2-Dichloroethane-d4
Concen: 99.729 ug/l
RT: 8.061 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 65 Resp: 292533

Ion	Ratio	Lower	Upper
65	100		
67	51.8	0.0	104.6

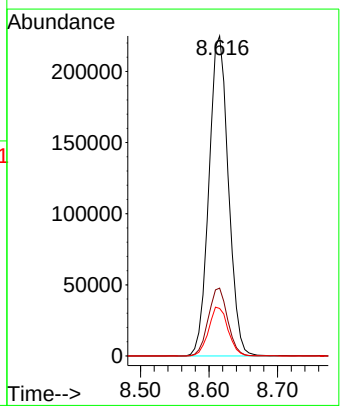


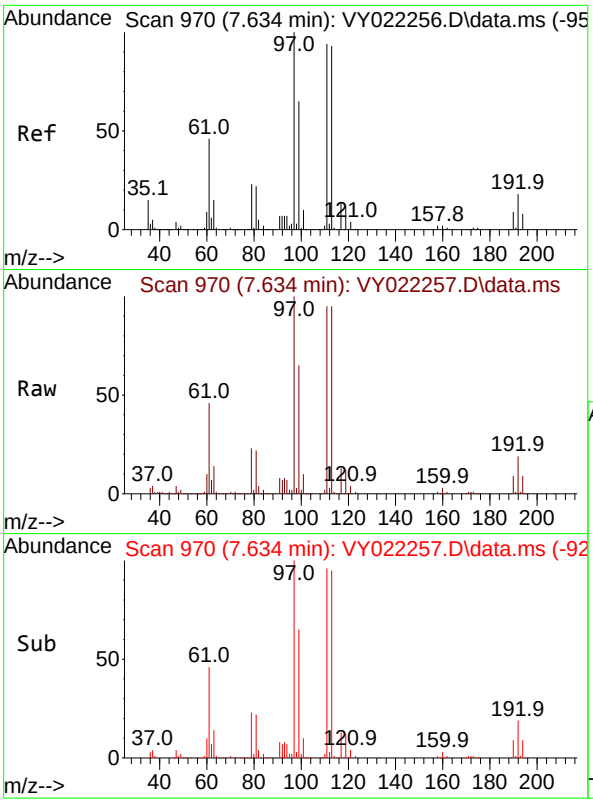


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion:114 Resp: 443341

Ion	Ratio	Lower	Upper
114	100		
63	21.2	0.0	41.0
88	14.9	0.0	29.4



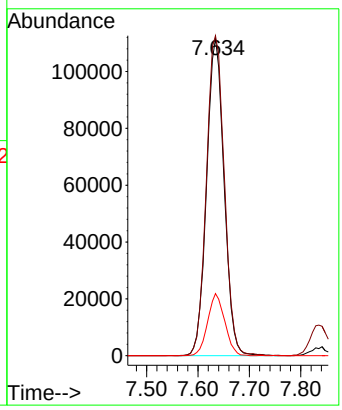


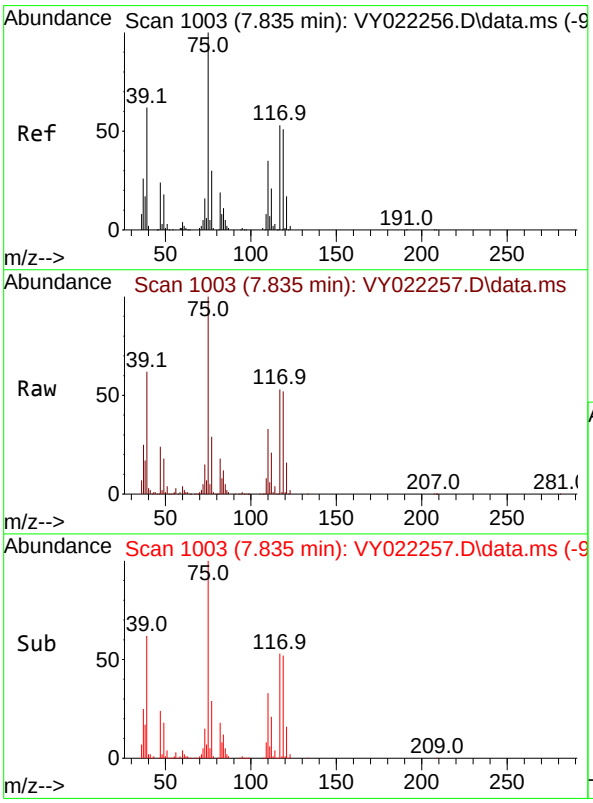
#35
Dibromofluoromethane
Concen: 99.389 ug/l
RT: 7.634 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion:113 Resp: 262995

Ion	Ratio	Lower	Upper
113	100		
111	103.9	82.6	123.8
192	19.2	15.2	22.8

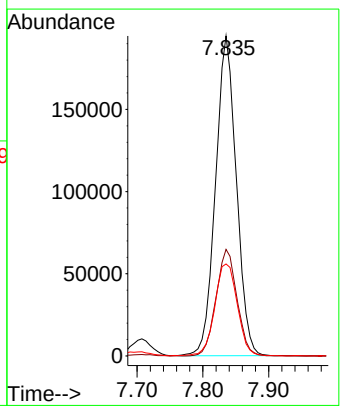


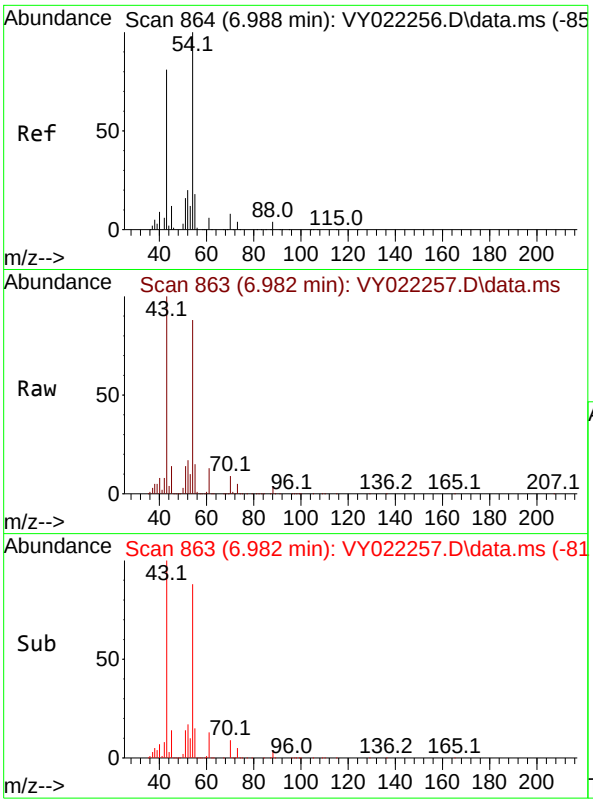


#36
1,1-Dichloropropene
Concen: 98.465 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 75 Resp: 429153

Ion	Ratio	Lower	Upper
75	100		
110	33.5	16.6	49.8
77	31.2	24.6	37.0



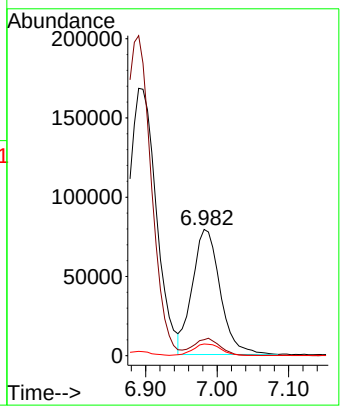


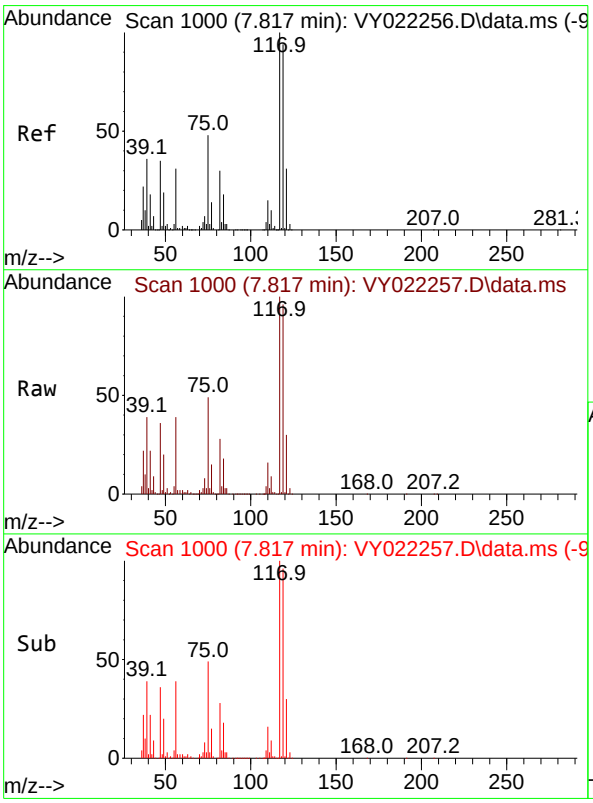
#37
Ethyl Acetate
Concen: 101.642 ug/l
RT: 6.982 min Scan# 8
Delta R.T. -0.006 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 213152

Ion	Ratio	Lower	Upper
43	100		
61	13.0	10.2	15.2
70	9.1	7.6	11.4

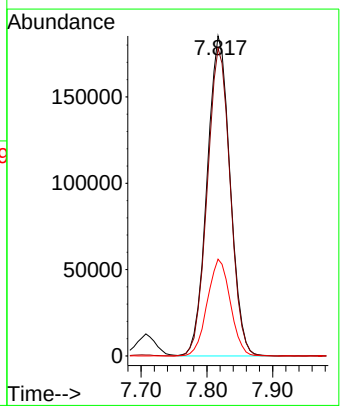


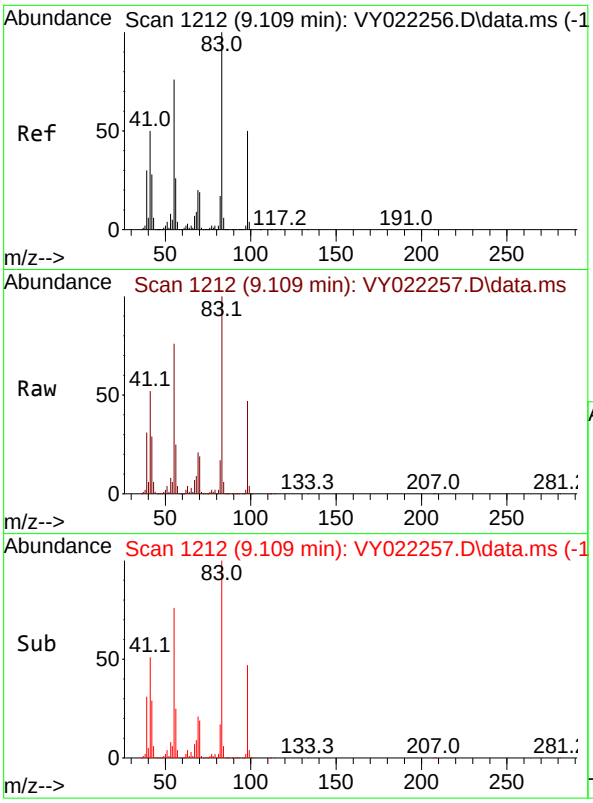


#38
Carbon Tetrachloride
Concen: 100.097 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion:117 Resp: 451589

Ion	Ratio	Lower	Upper
117	100		
119	96.2	75.3	112.9
121	30.3	24.7	37.1



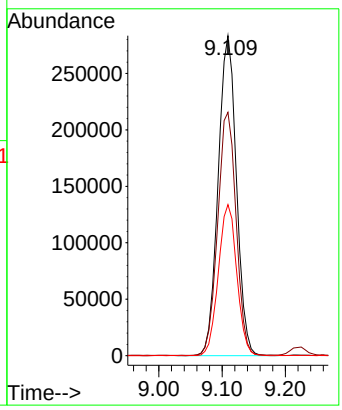


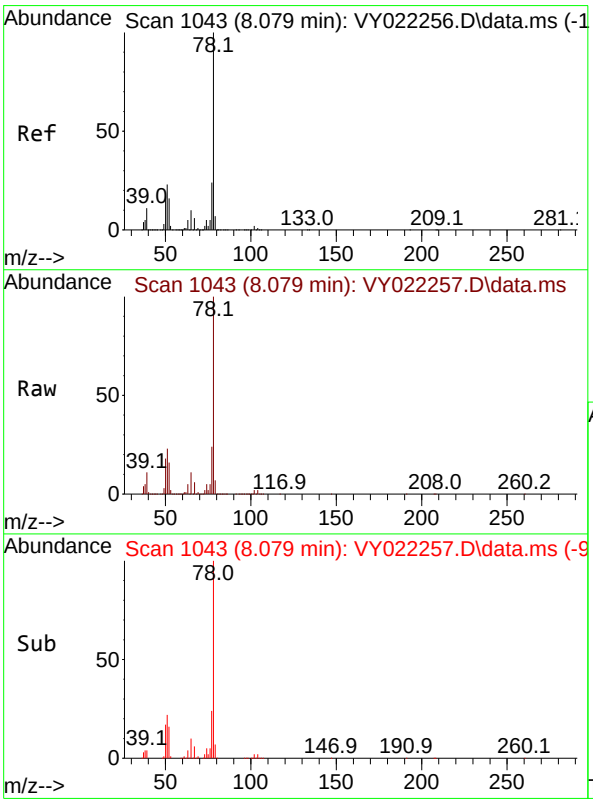
#39
Methylcyclohexane
Concen: 96.704 ug/l
RT: 9.109 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 83 Resp: 566259

Ion	Ratio	Lower	Upper
83	100		
55	75.9	60.6	90.8
98	47.2	40.0	60.0

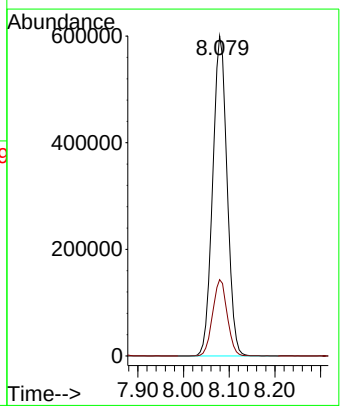


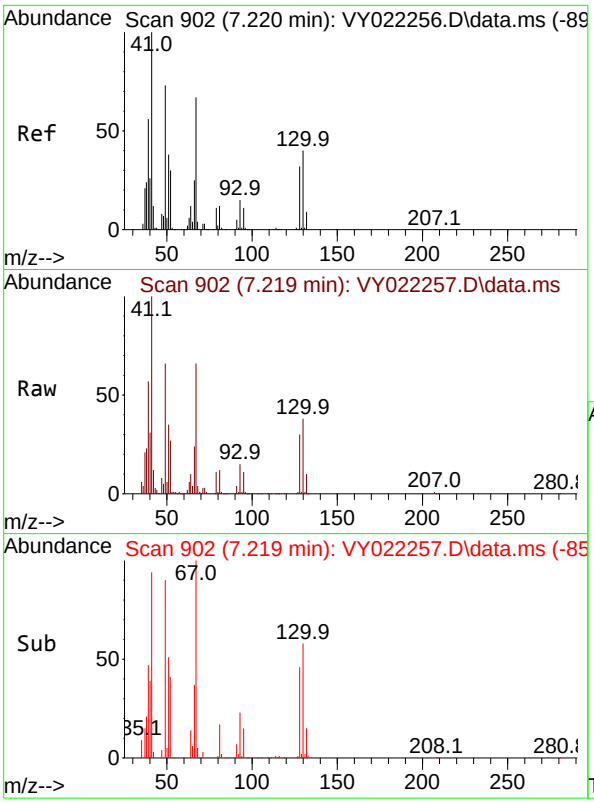


#40
Benzene
Concen: 101.677 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 78 Resp: 1313733

Ion	Ratio	Lower	Upper
78	100		
77	23.8	18.9	28.3



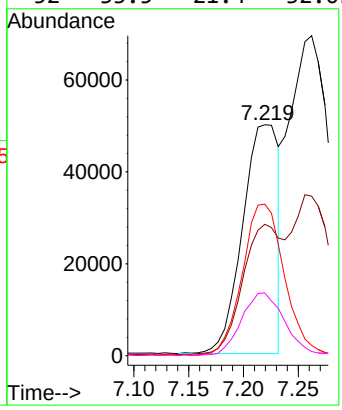


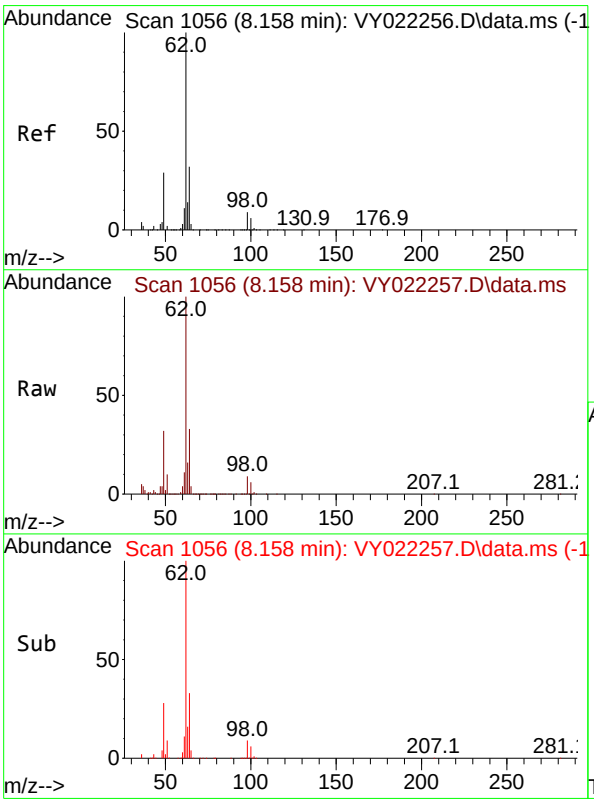
#41
Methacrylonitrile
Concen: 73.960 ug/l
RT: 7.219 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 41 Resp: 113489

Ion	Ratio	Lower	Upper
41	100		
39	64.3	39.1	58.7#
67	77.7	47.1	70.7#
52	33.5	21.4	32.0#

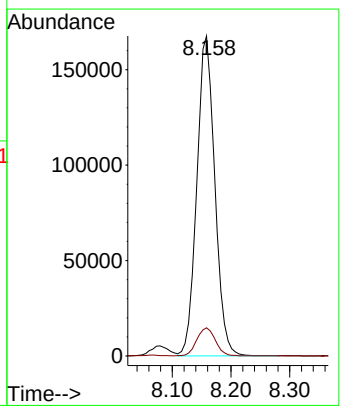


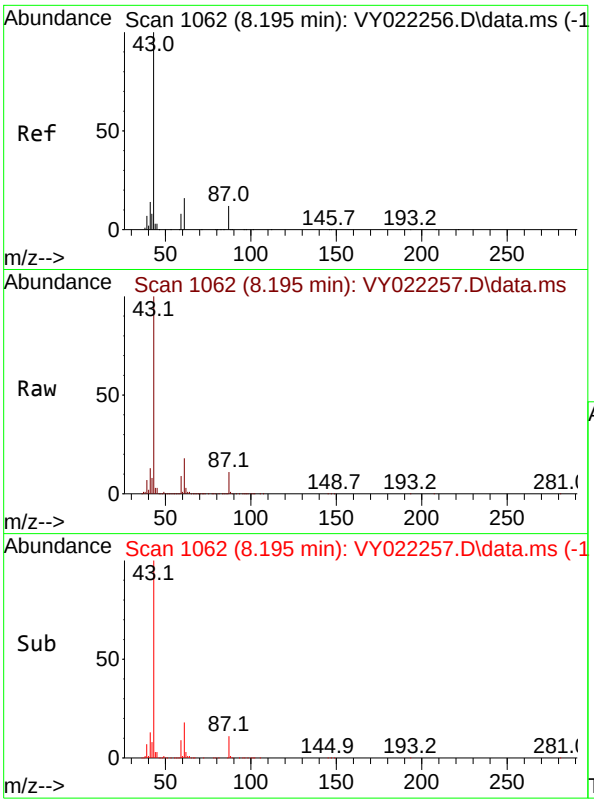


#42
1,2-Dichloroethane
Concen: 102.165 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 62 Resp: 356974

Ion	Ratio	Lower	Upper
62	100		
98	9.1	0.0	18.4



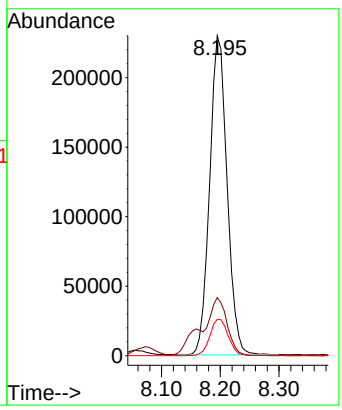


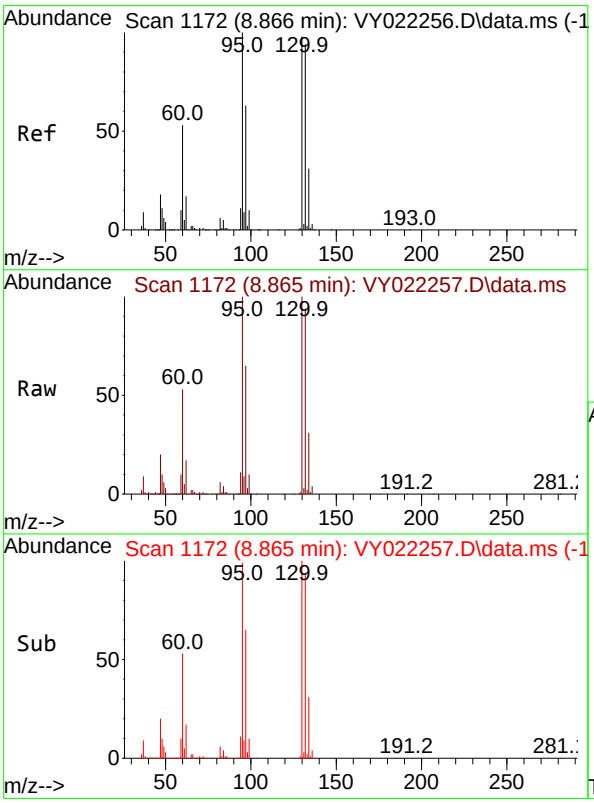
#43
Isopropyl Acetate
Concen: 103.517 ug/l
RT: 8.195 min Scan# 1(
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 473430

Ion	Ratio	Lower	Upper
43	100		
61	18.5	15.1	22.7
87	12.0	9.7	14.5

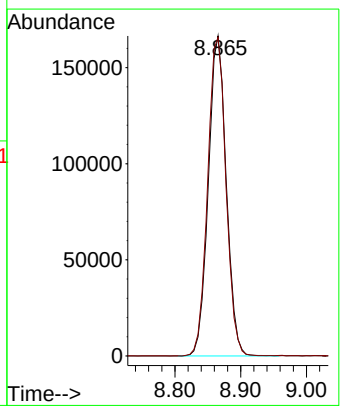


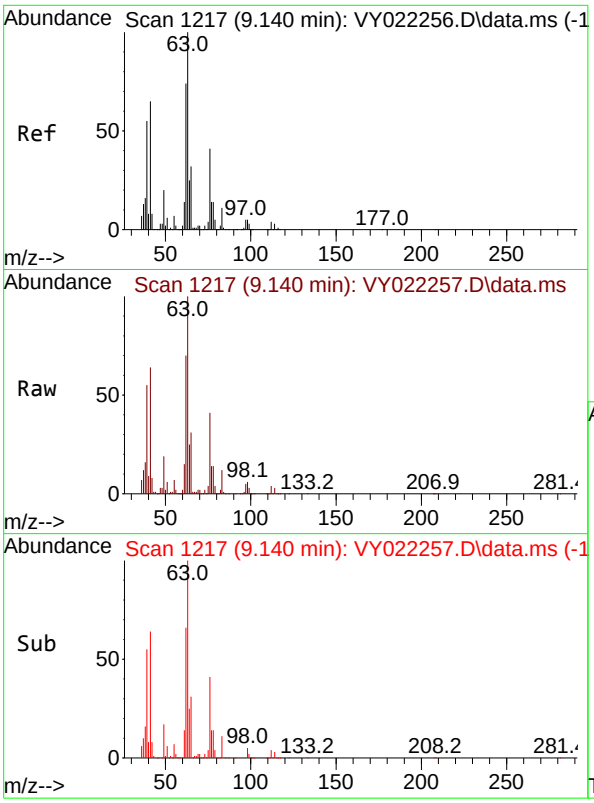


#44
Trichloroethene
Concen: 98.218 ug/l
RT: 8.865 min Scan# 1172
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion:130 Resp: 315543

Ion	Ratio	Lower	Upper
130	100		
95	99.5	0.0	204.8



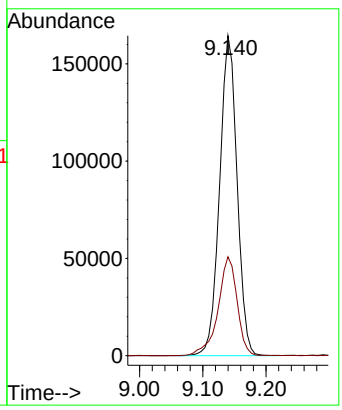


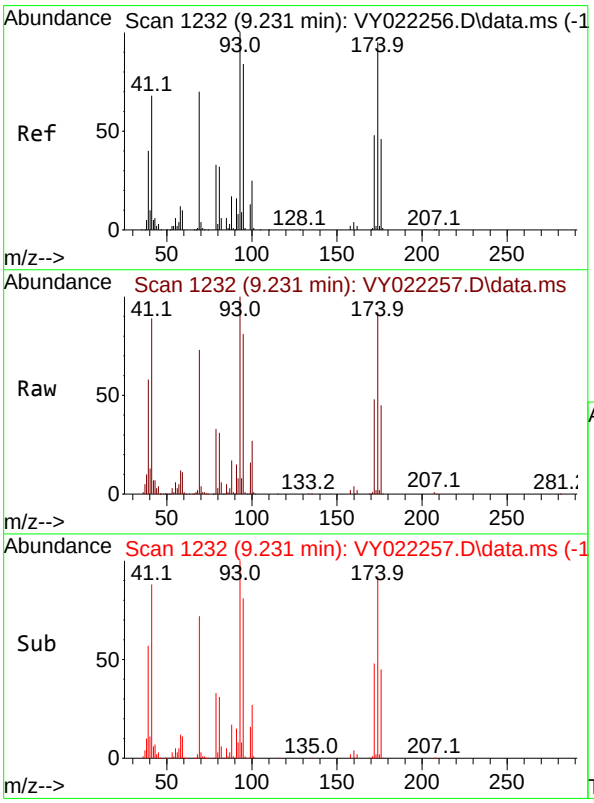
#45
1,2-Dichloropropane
Concen: 100.858 ug/l
RT: 9.140 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 63 Resp: 314179

Ion	Ratio	Lower	Upper
63	100		
65	30.8	25.7	38.5

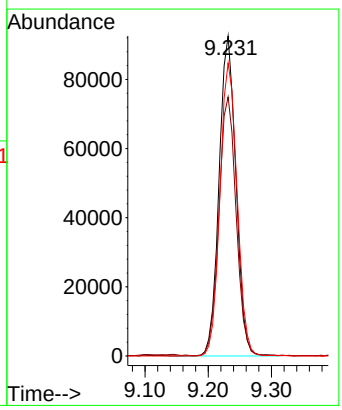


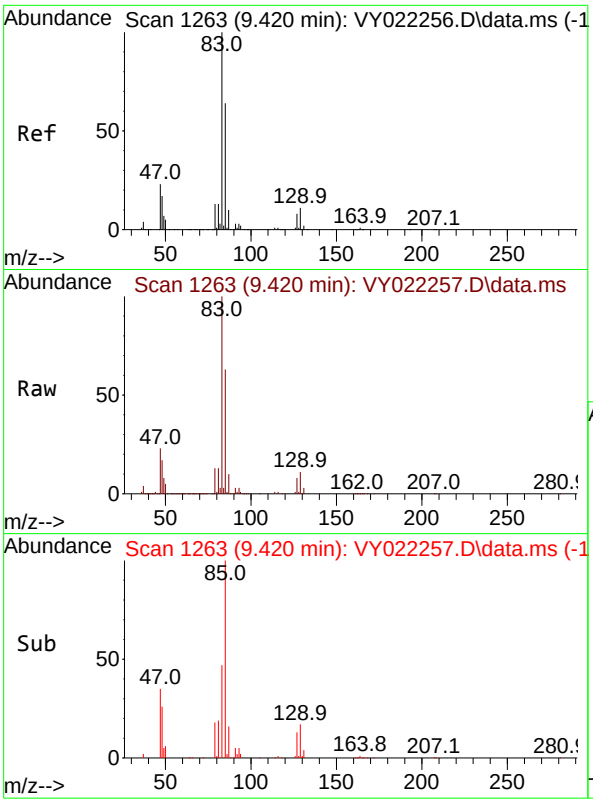


#46
Dibromomethane
Concen: 101.606 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 93 Resp: 170712

Ion	Ratio	Lower	Upper
93	100		
95	82.7	65.2	97.8
174	92.9	74.3	111.5



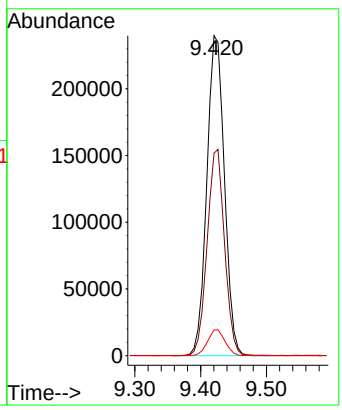


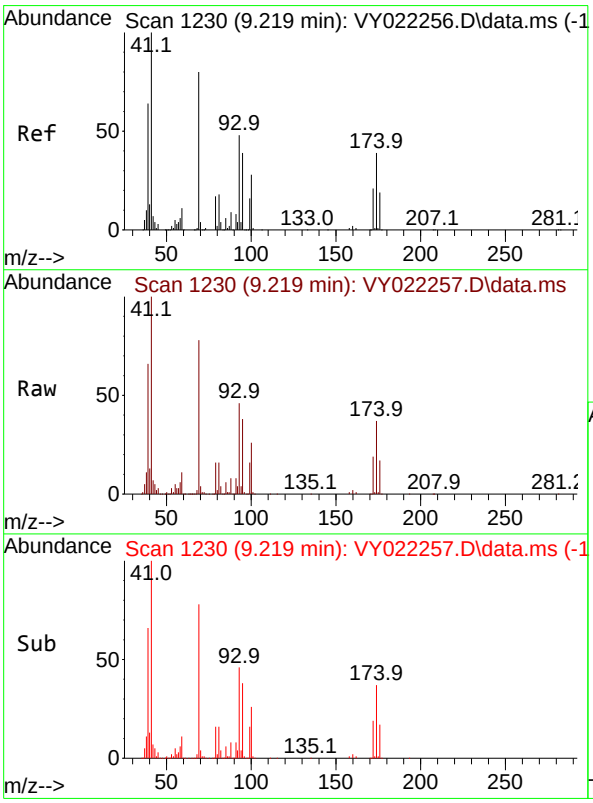
#47
Bromodichloromethane
Concen: 102.514 ug/l
RT: 9.420 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 83 Resp: 446829

Ion	Ratio	Lower	Upper
83	100		
85	63.2	51.1	76.7
127	8.0	6.6	10.0

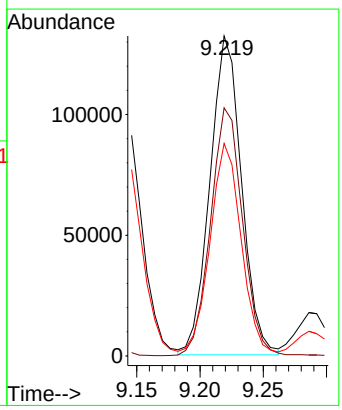


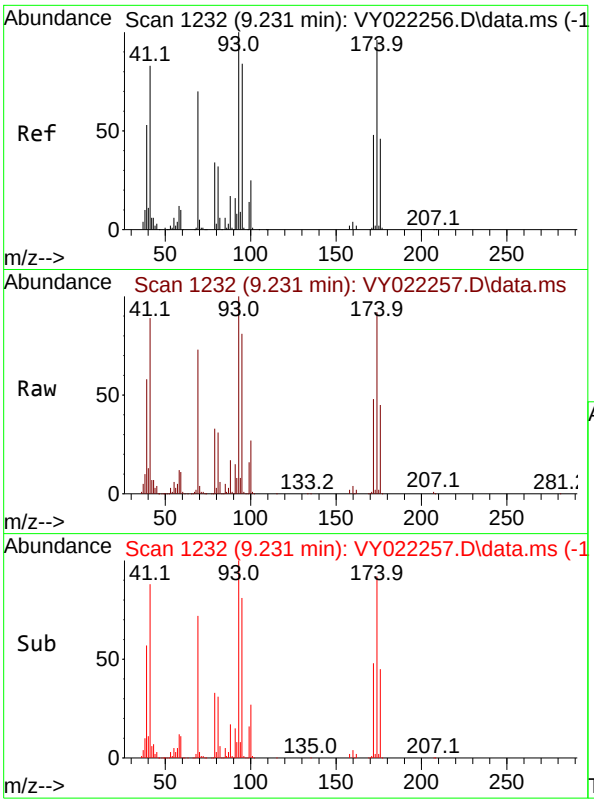


#48
Methyl methacrylate
Concen: 107.308 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 41 Resp: 229512

Ion	Ratio	Lower	Upper
41	100		
69	78.7	63.5	95.3
39	63.5	50.8	76.2



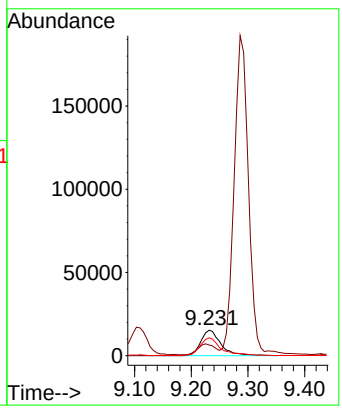


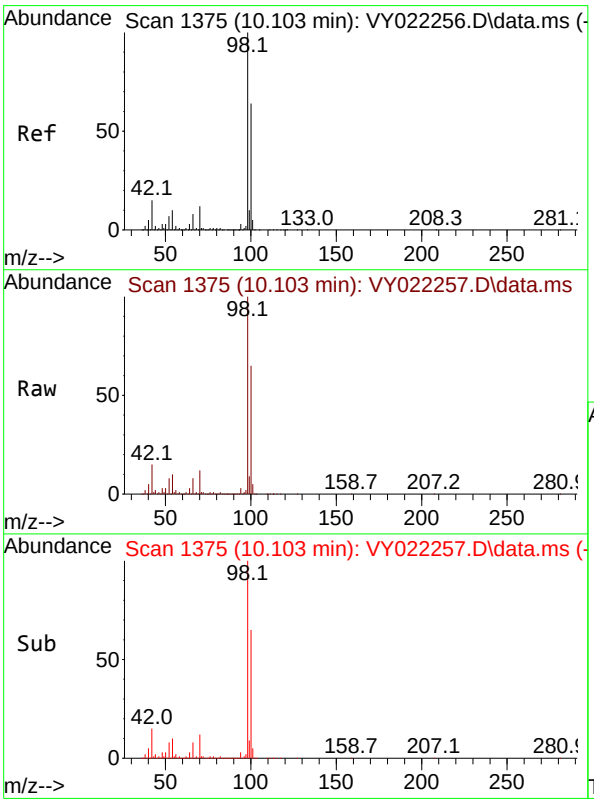
#49
1,4-Dioxane
Concen: 1990.455 ug/l
RT: 9.231 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 88 Resp: 37780

Ion	Ratio	Lower	Upper
88	100		
43	36.0	28.5	42.7
58	75.0	61.4	92.2

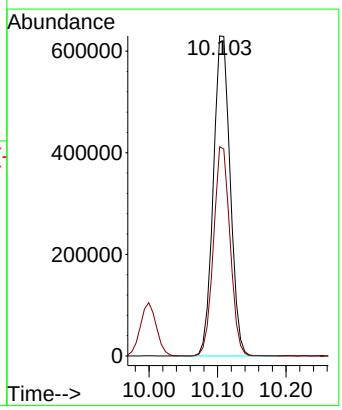


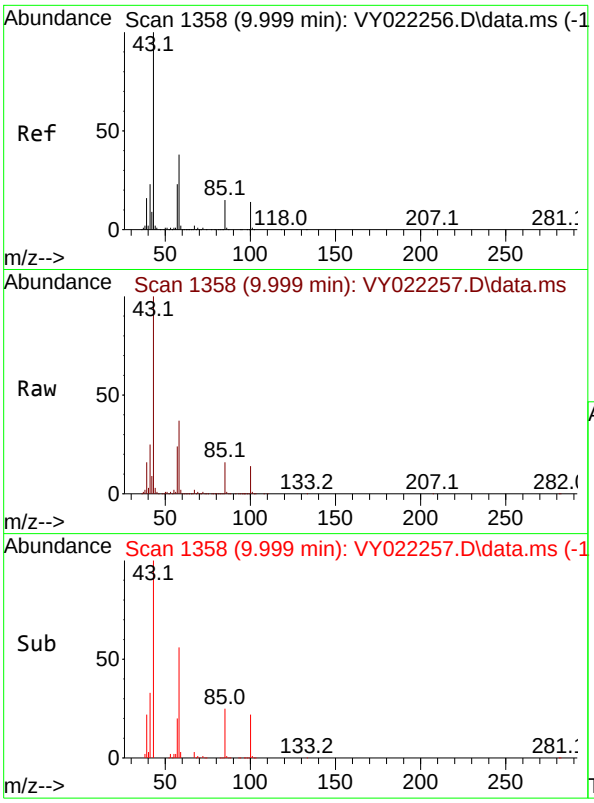


#50
Toluene-d8
Concen: 99.289 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 98 Resp: 1076035

Ion	Ratio	Lower	Upper
98	100		
100	64.2	51.8	77.8



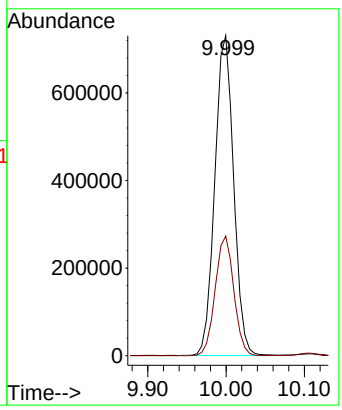


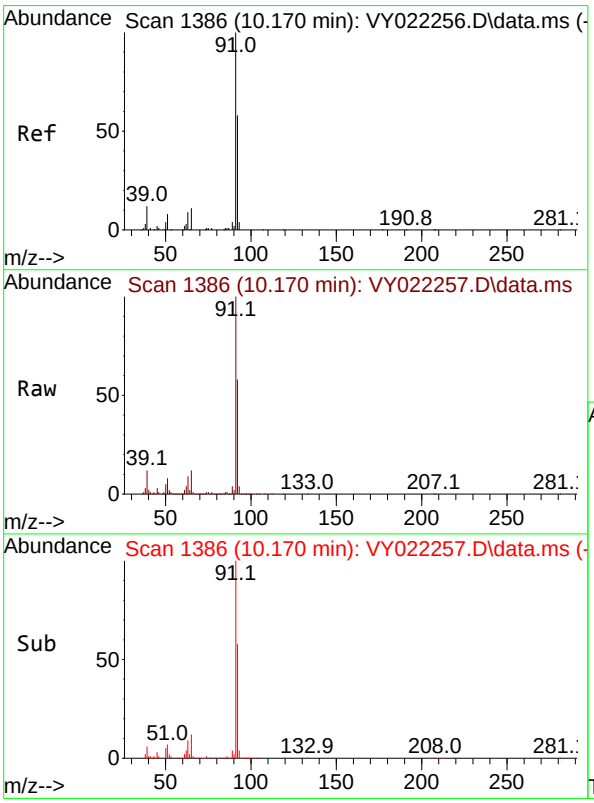
#51
4-Methyl-2-Pentanone
Concen: 543.068 ug/l
RT: 9.999 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 1218685

Ion	Ratio	Lower	Upper
43	100		
58	37.1	29.4	44.2

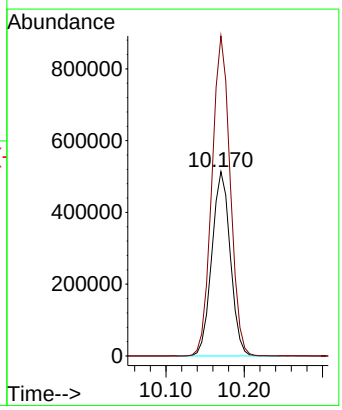


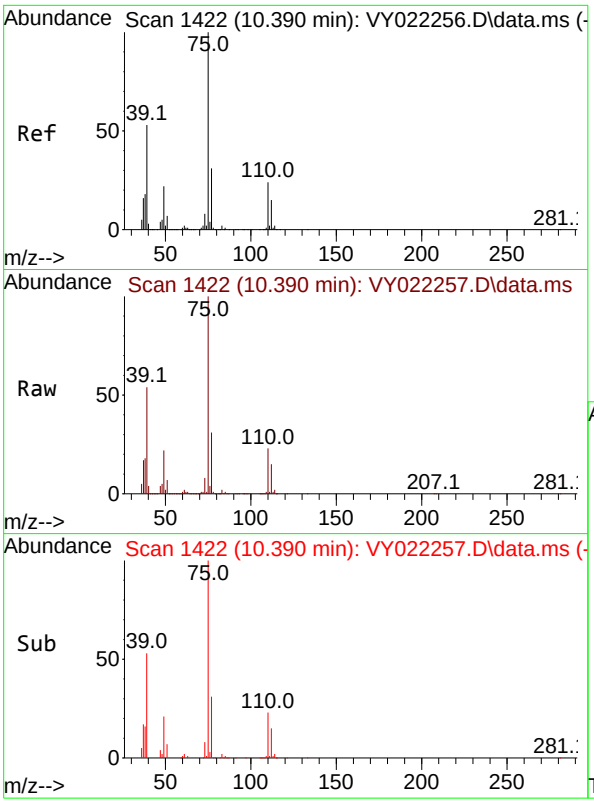


#52
Toluene
Concen: 102.593 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 92 Resp: 839400

Ion	Ratio	Lower	Upper
92	100		
91	172.5	139.1	208.7



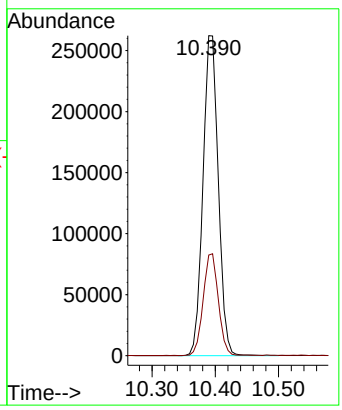


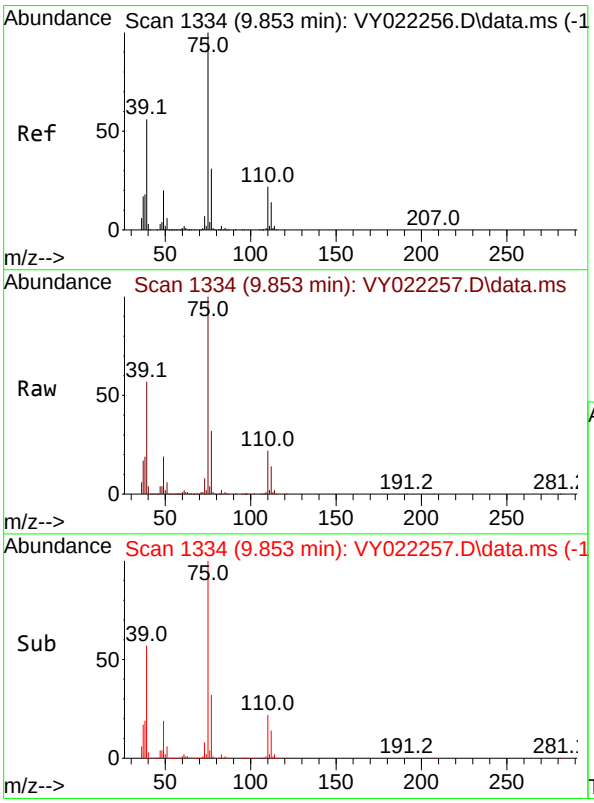
#53
t-1,3-Dichloropropene
Concen: 103.832 ug/l
RT: 10.390 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 75 Resp: 441672

Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.0	37.6

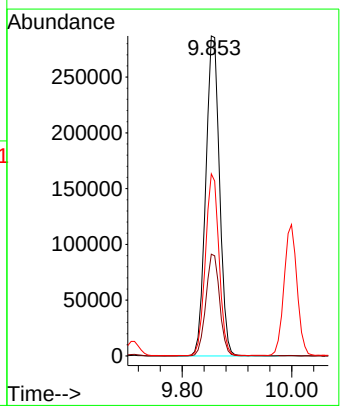


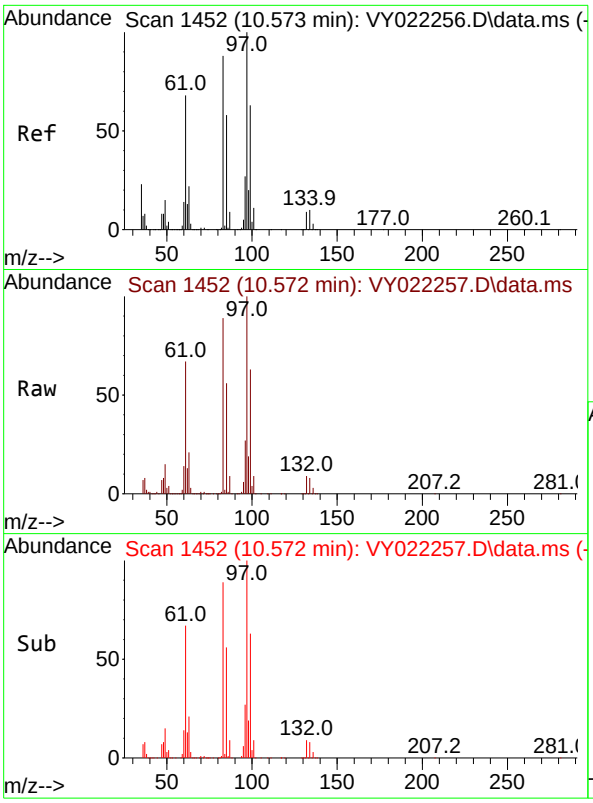


#54
cis-1,3-Dichloropropene
Concen: 102.190 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 75 Resp: 498023

Ion	Ratio	Lower	Upper
75	100		
77	31.8	25.1	37.7
39	56.8	44.5	66.7



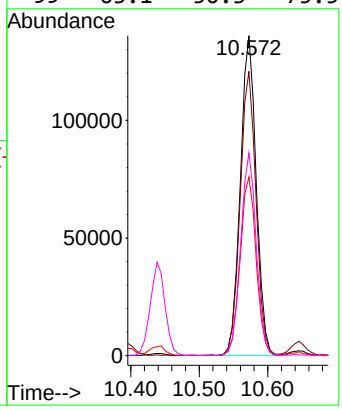


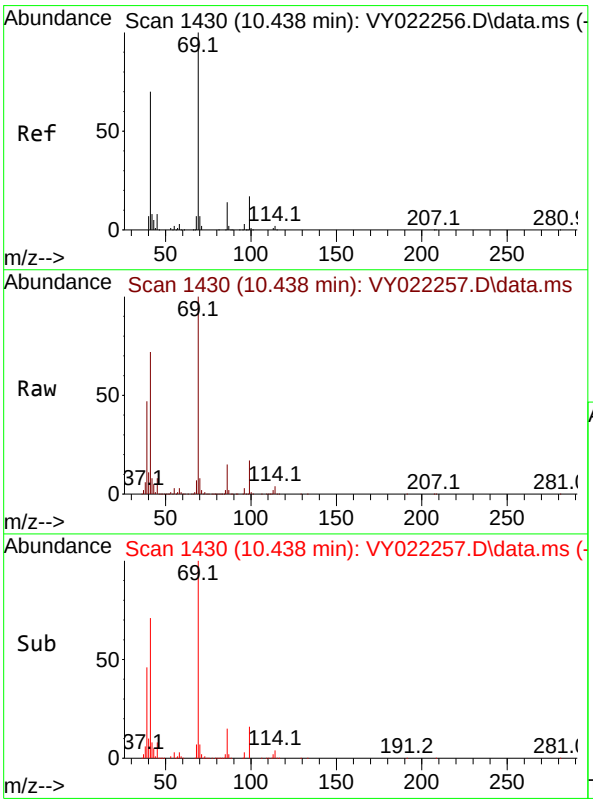
#55
1,1,2-Trichloroethane
Concen: 102.005 ug/l
RT: 10.572 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 97 Resp: 219460

Ion	Ratio	Lower	Upper
97	100		
83	88.8	70.3	105.5
85	55.8	46.2	69.4
99	63.1	50.3	75.5

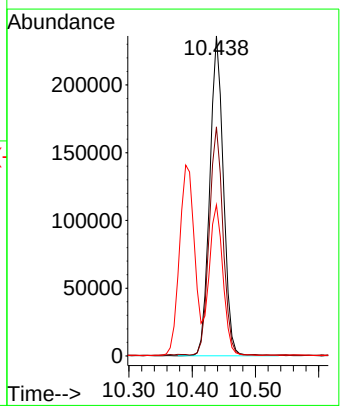


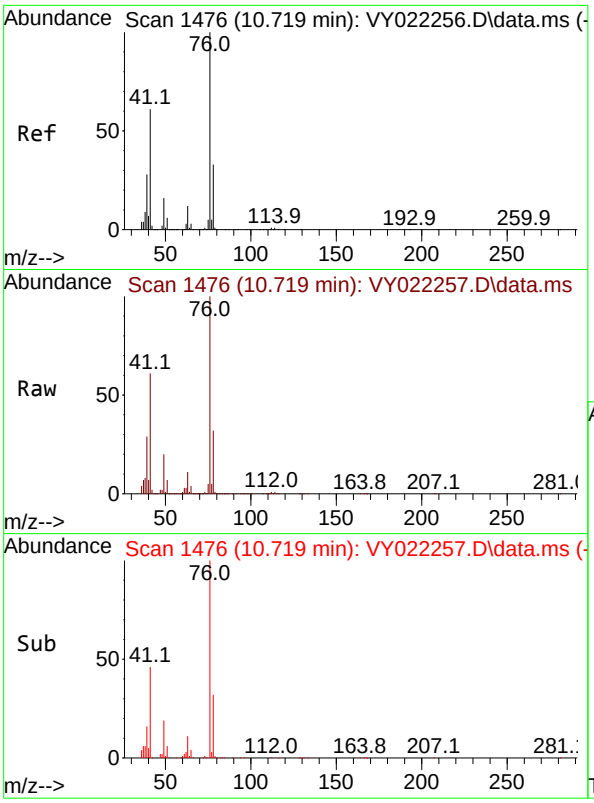


#56
Ethyl methacrylate
Concen: 105.335 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 69 Resp: 353013

Ion	Ratio	Lower	Upper
69	100		
41	71.7	56.5	84.7
39	47.7	37.1	55.7



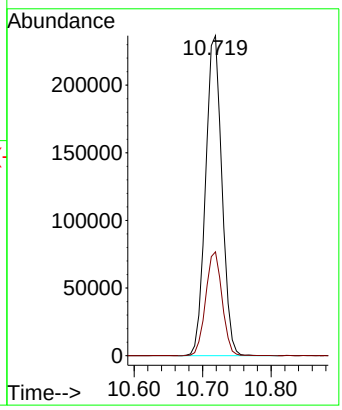


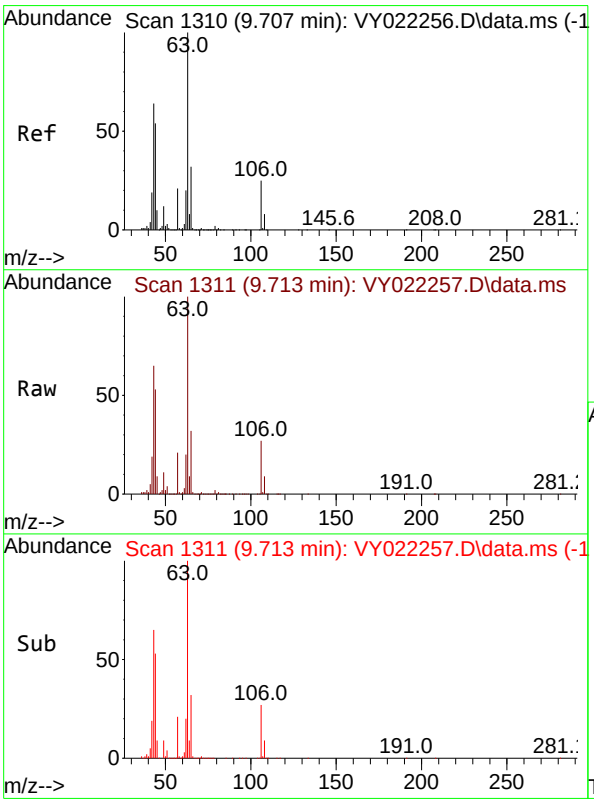
#57
1,3-Dichloropropane
Concen: 102.420 ug/l
RT: 10.719 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 76 Resp: 391514

Ion	Ratio	Lower	Upper
76	100		
78	32.7	25.8	38.8

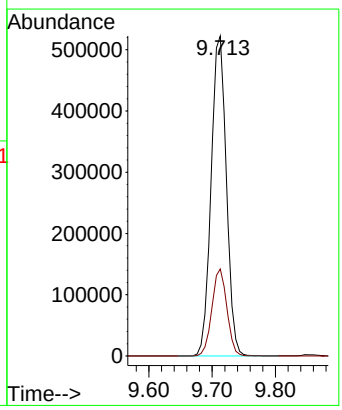


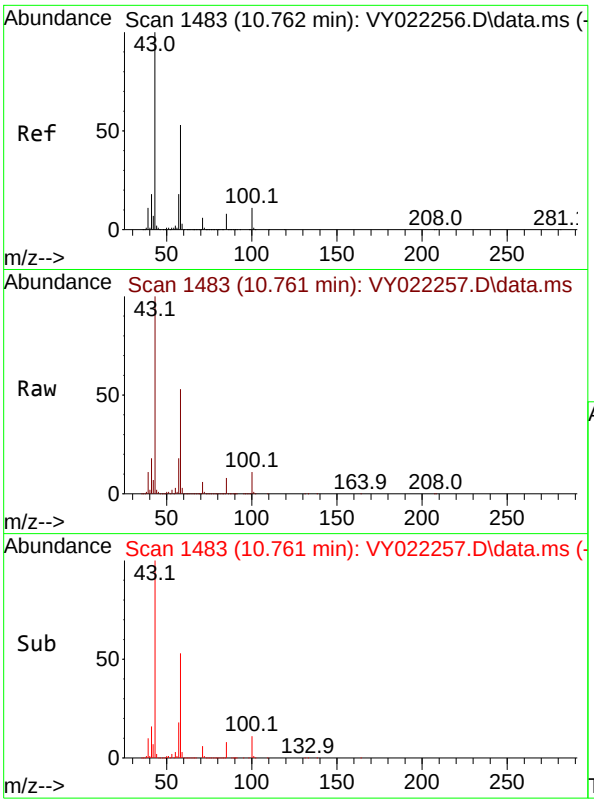


#58
2-Chloroethyl Vinyl ether
Concen: 580.295 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. 0.006 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 63 Resp: 872907

Ion	Ratio	Lower	Upper
63	100		
106	26.7	21.0	31.4



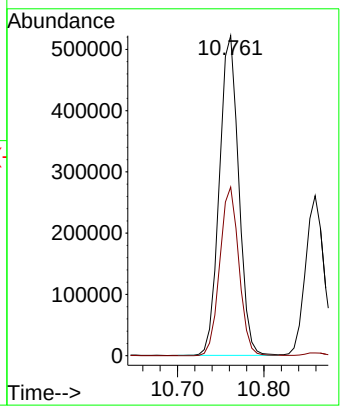


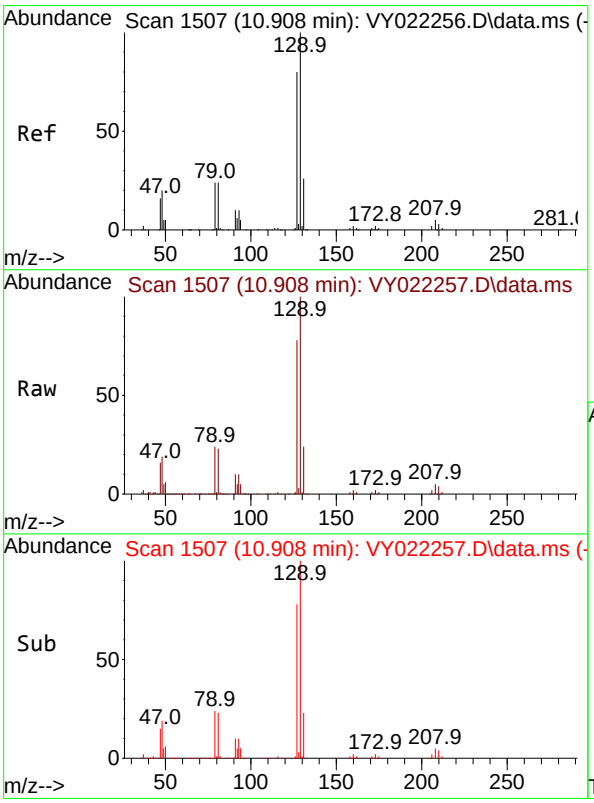
#59
2-Hexanone
Concen: 537.872 ug/l
RT: 10.761 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 809288

Ion	Ratio	Lower	Upper
43	100		
58	52.2	26.1	78.3

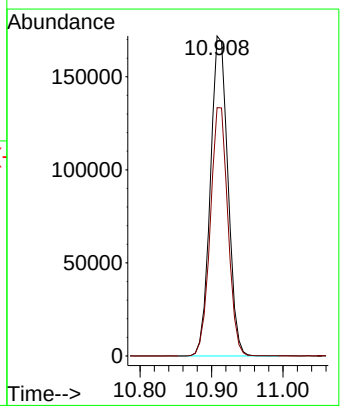


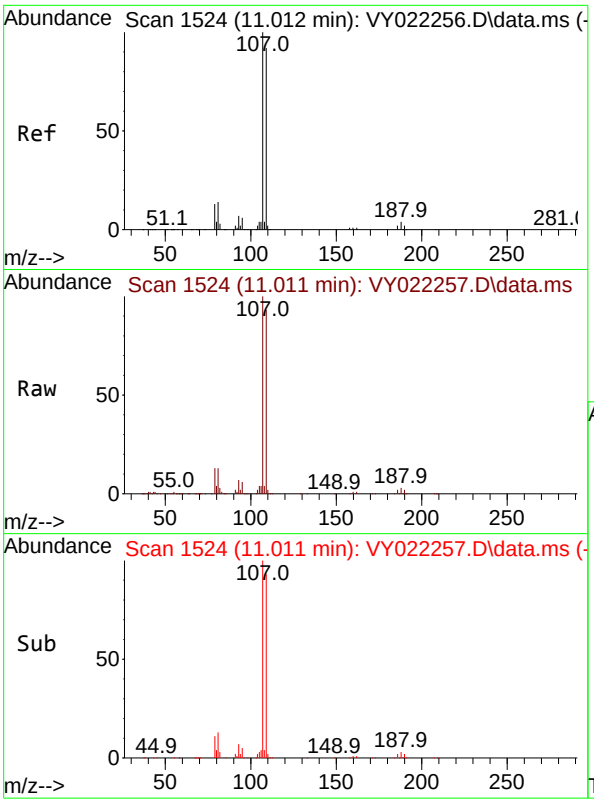


#60
Dibromochloromethane
Concen: 104.616 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion:129 Resp: 292143

Ion	Ratio	Lower	Upper
129	100		
127	77.9	38.6	115.7



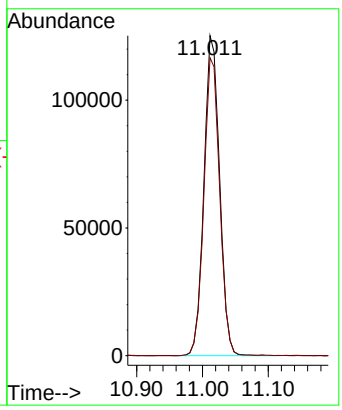


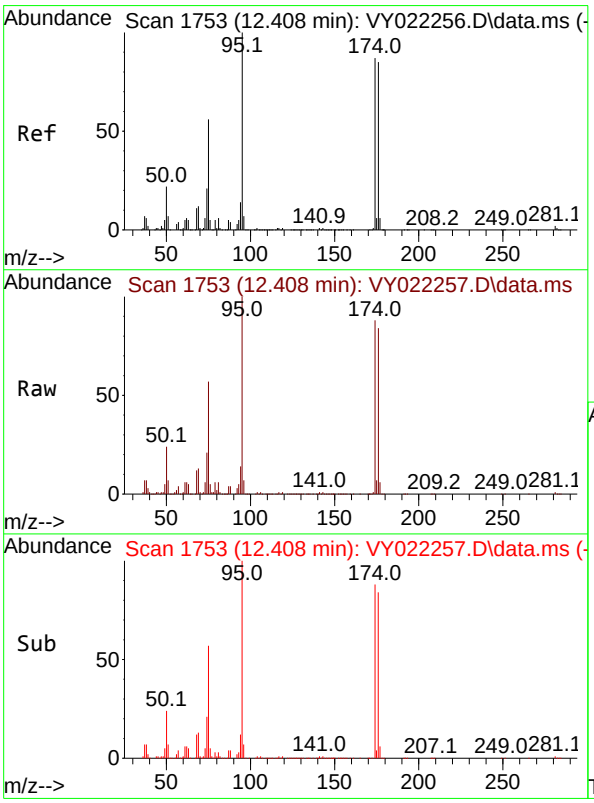
#61
1,2-Dibromoethane
Concen: 103.362 ug/l
RT: 11.011 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion:107 Resp: 207266

Ion	Ratio	Lower	Upper
107	100		
109	94.0	74.6	111.8

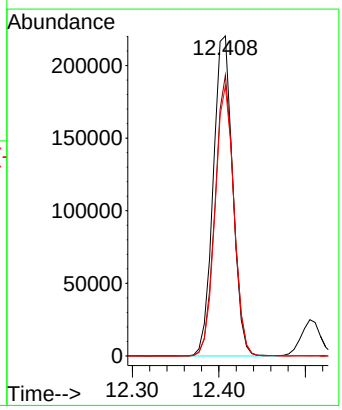


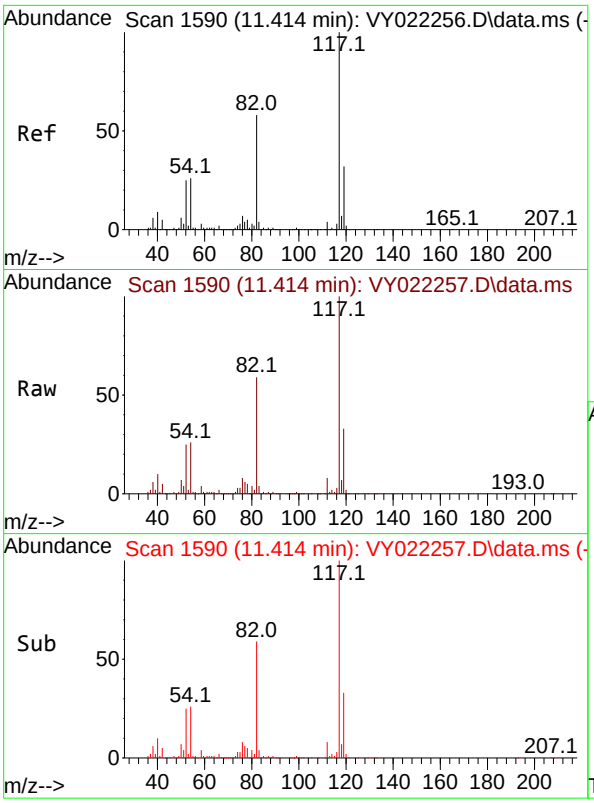


#62
4-Bromofluorobenzene
Concen: 99.968 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 95 Resp: 343397

Ion	Ratio	Lower	Upper
95	100		
174	84.2	0.0	166.8
176	81.7	0.0	160.8



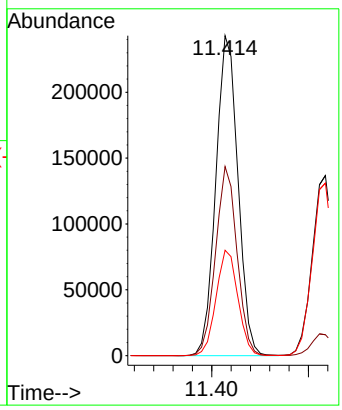


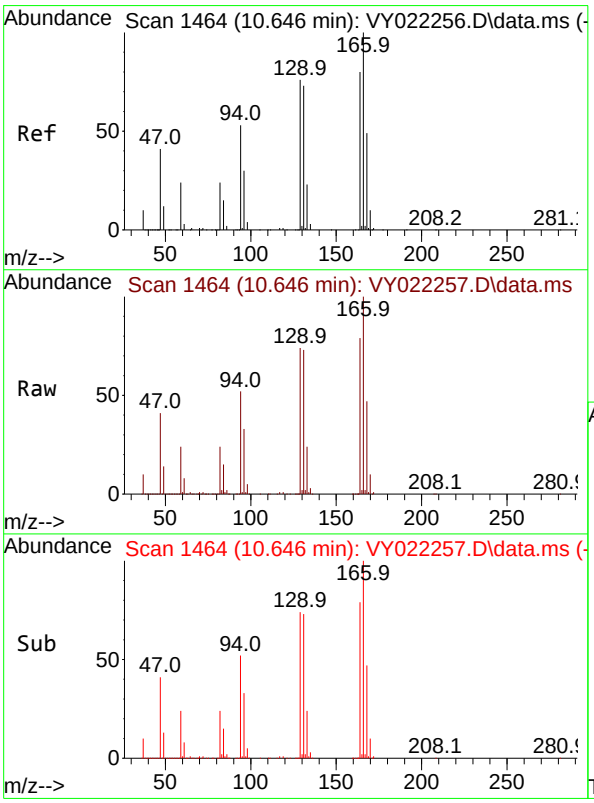
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion:117 Resp: 385348

Ion	Ratio	Lower	Upper
117	100		
82	59.1	46.6	70.0
119	33.0	25.8	38.6

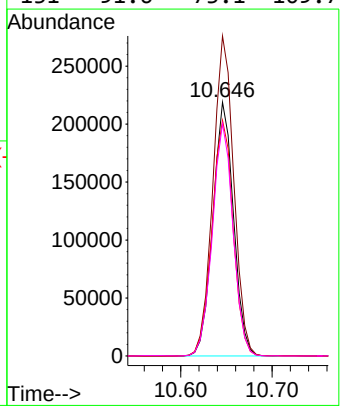


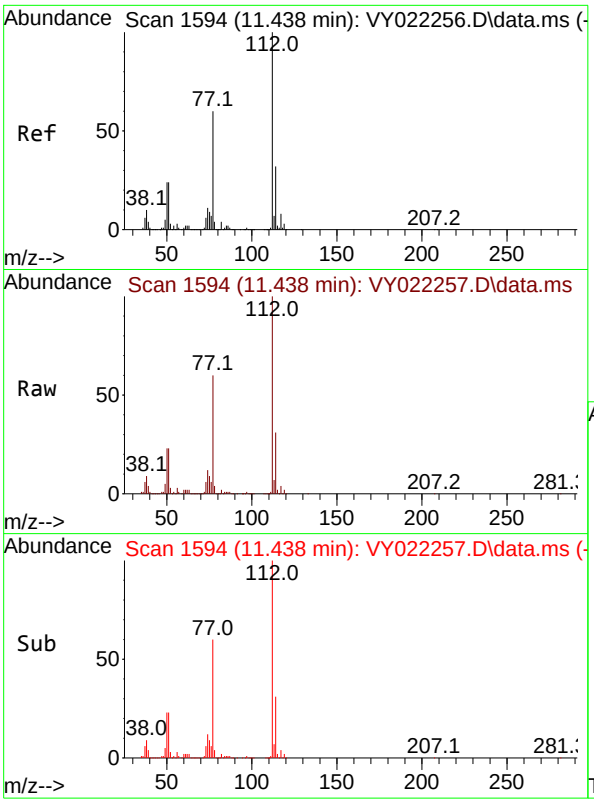


#64
Tetrachloroethene
Concen: 96.489 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion:164 Resp: 343677

Ion	Ratio	Lower	Upper
164	100		
166	126.1	100.4	150.6
129	92.9	76.4	114.6
131	91.6	73.1	109.7



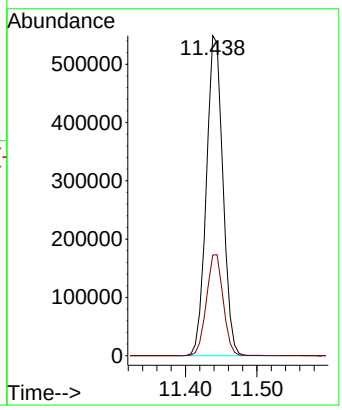


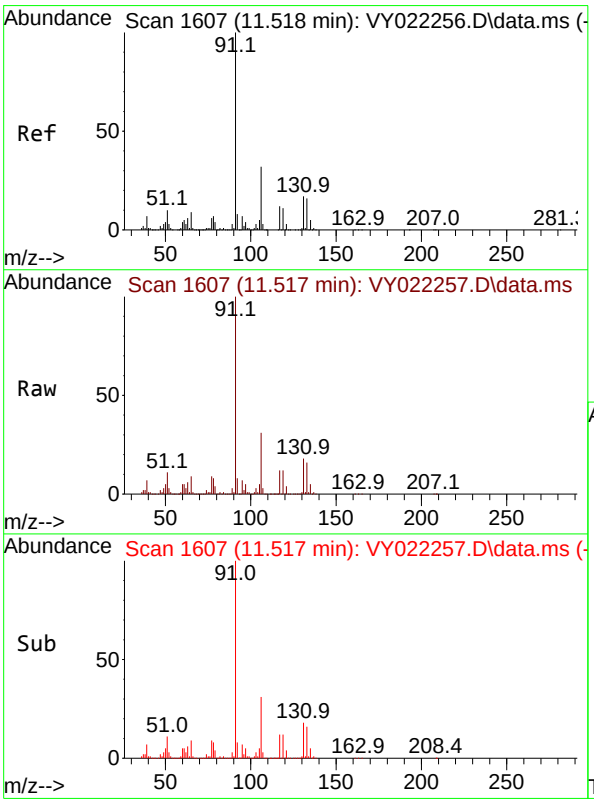
#65
Chlorobenzene
Concen: 101.346 ug/l
RT: 11.438 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion:112 Resp: 881086

Ion	Ratio	Lower	Upper
112	100		
114	31.4	25.8	38.6

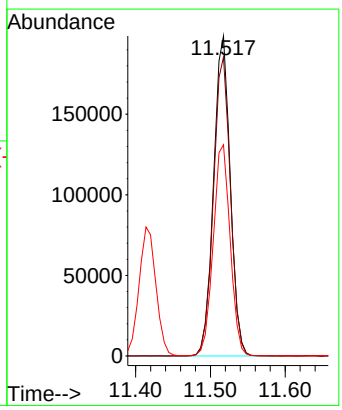


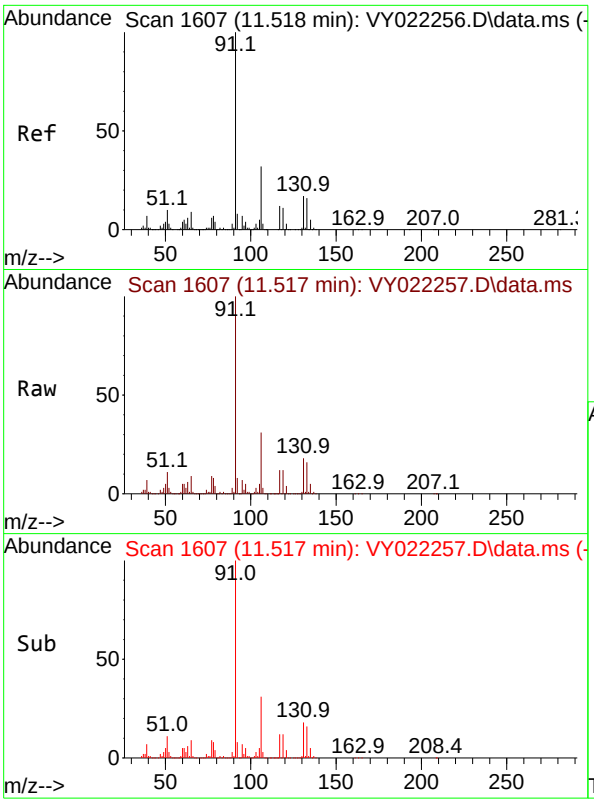


#66
1,1,1,2-Tetrachloroethane
Concen: 103.007 ug/l
RT: 11.517 min Scan# 1607
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion:131 Resp: 307866

Ion	Ratio	Lower	Upper
131	100		
133	95.1	47.3	141.9
119	67.2	33.1	99.2



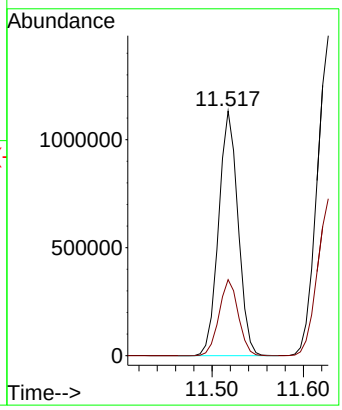


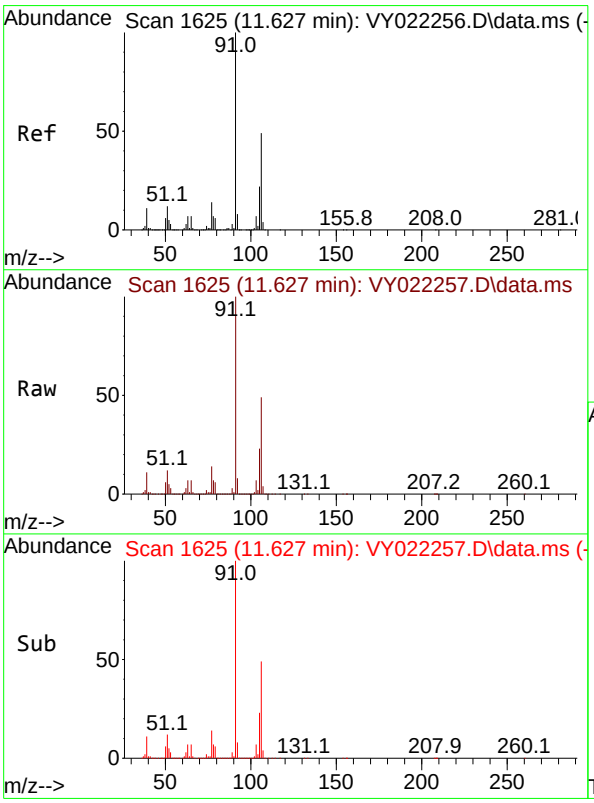
#67
Ethyl Benzene
Concen: 102.836 ug/l
RT: 11.517 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 91 Resp: 1674355

Ion	Ratio	Lower	Upper
91	100		
106	31.1	25.4	38.0

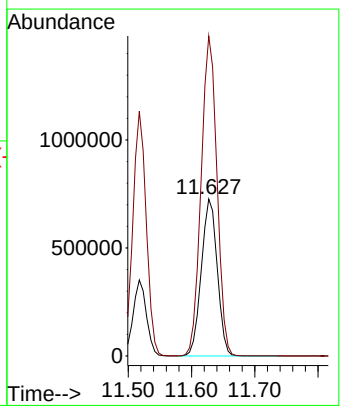


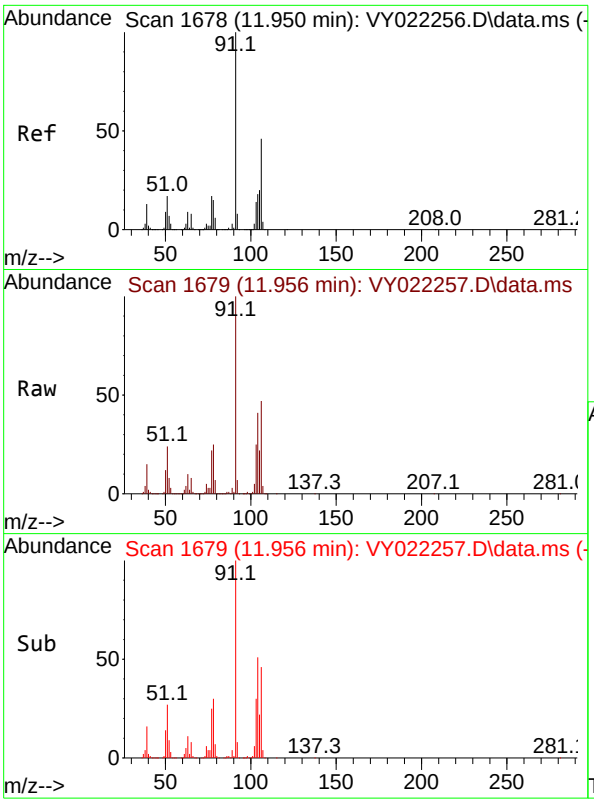


#68
m/p-Xylenes
Concen: 207.213 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion:106 Resp: 1271299

Ion	Ratio	Lower	Upper
106	100		
91	203.2	163.0	244.4



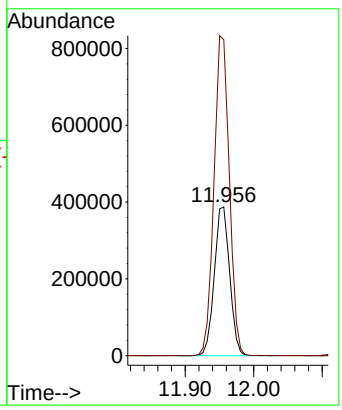


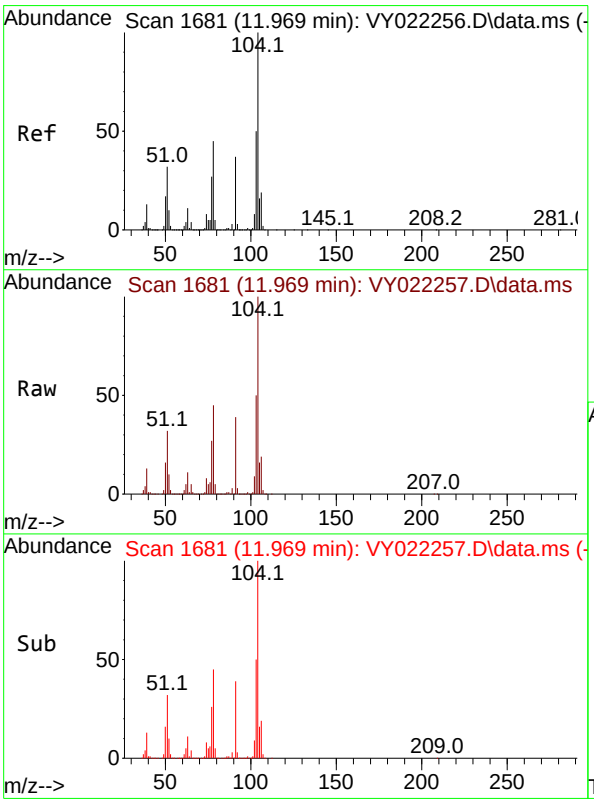
#69
o-Xylene
Concen: 103.777 ug/l
RT: 11.956 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion:106 Resp: 602390

Ion	Ratio	Lower	Upper
106	100		
91	214.7	108.3	324.8

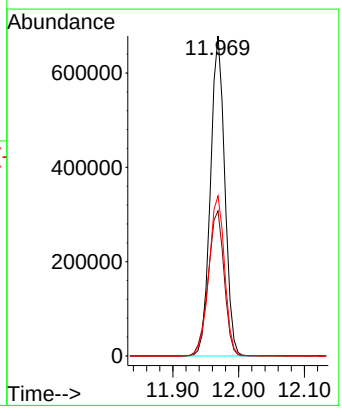


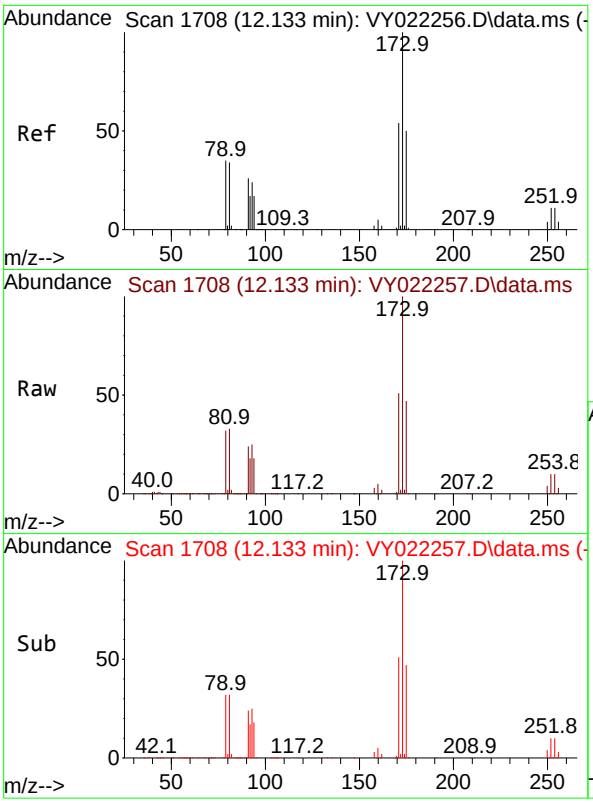


#70
Styrene
Concen: 105.038 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion:104 Resp: 1028498

Ion	Ratio	Lower	Upper
104	100		
78	50.6	40.9	61.3
103	54.7	43.7	65.5



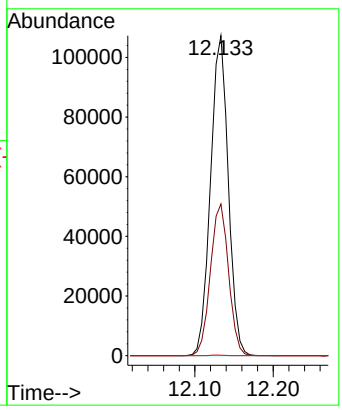


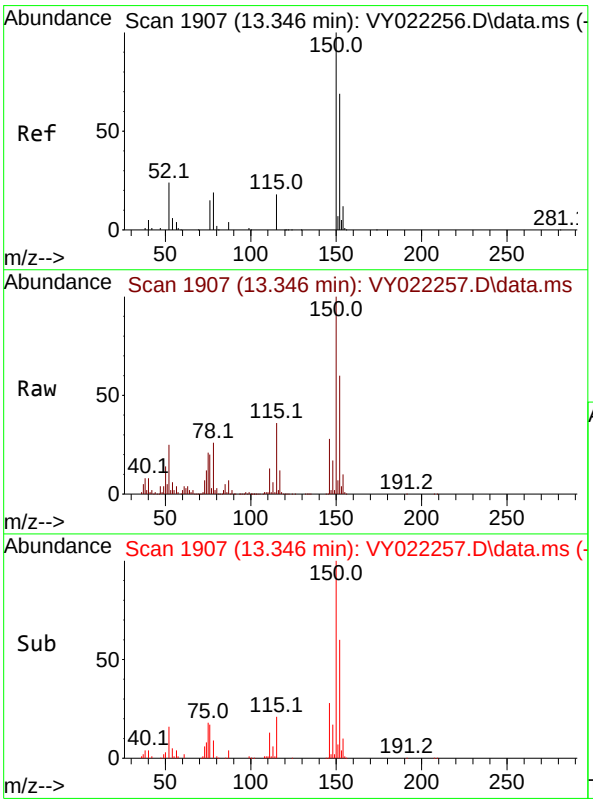
#71
Bromoform
Concen: 104.561 ug/l
RT: 12.133 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion:173 Resp: 168679

Ion	Ratio	Lower	Upper
173	100		
175	48.6	24.7	74.1
254	0.1	0.0	0.0#

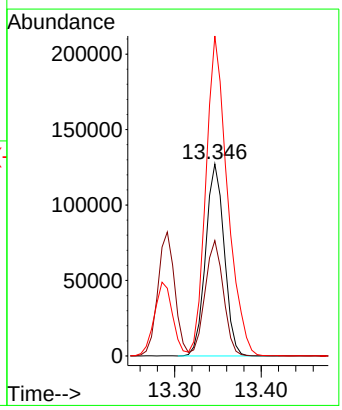


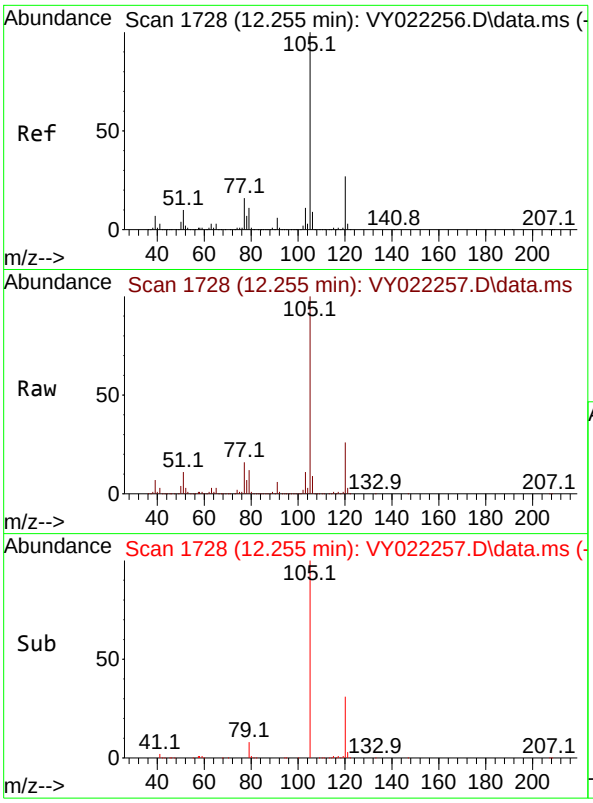


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion:152 Resp: 189780

Ion	Ratio	Lower	Upper
152	100		
115	59.1	29.4	88.2
150	193.1	0.0	353.8



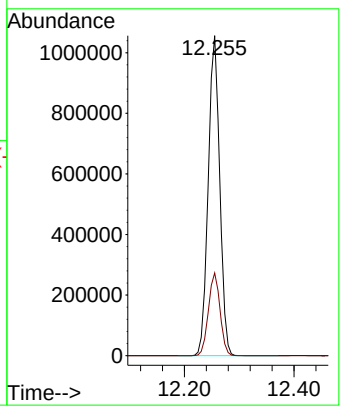


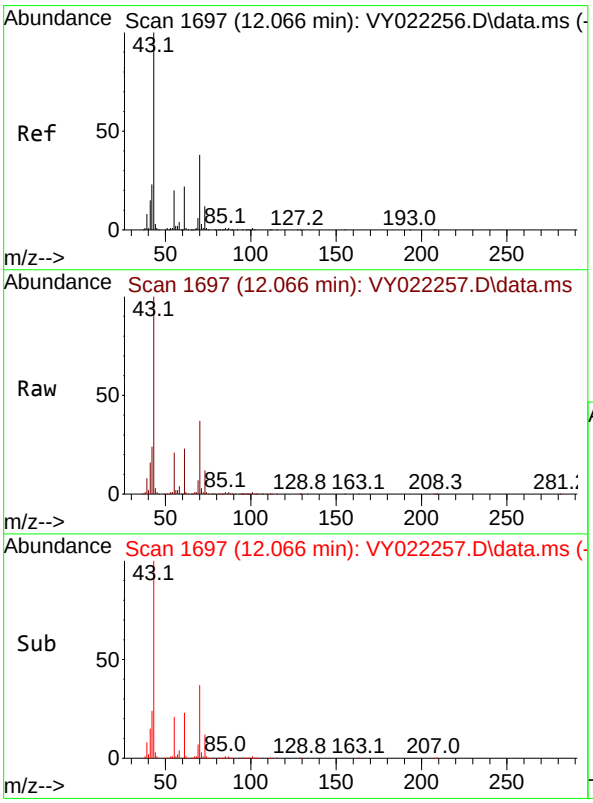
#73
Isopropylbenzene
Concen: 97.241 ug/l
RT: 12.255 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion:105 Resp: 1528857

Ion	Ratio	Lower	Upper
105	100		
120	26.1	13.2	39.6

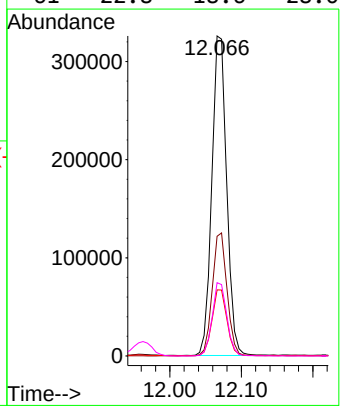


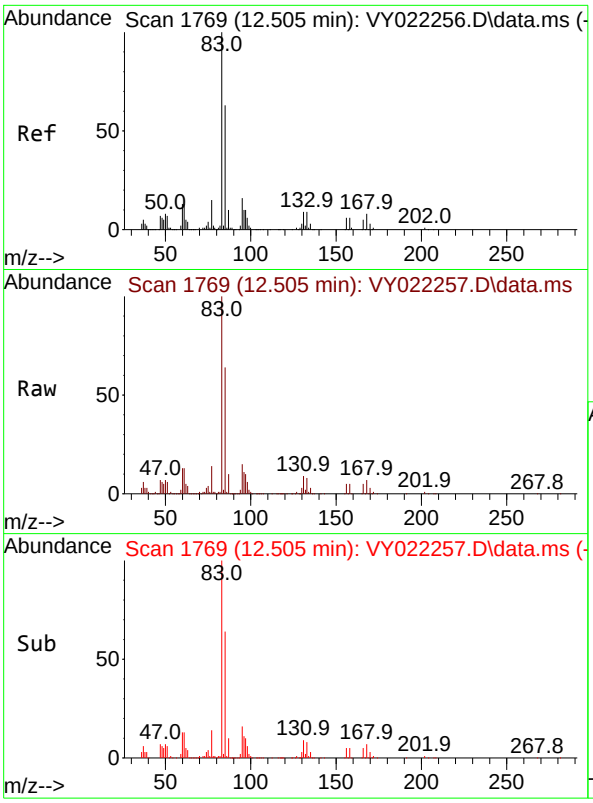


#74
N-amyl acetate
Concen: 104.235 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 43 Resp: 468707

Ion	Ratio	Lower	Upper
43	100		
70	38.2	31.4	47.0
55	20.8	17.0	25.6
61	22.8	18.6	28.0



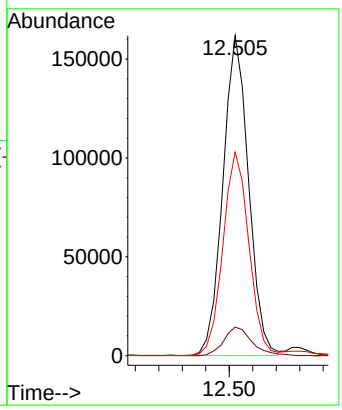


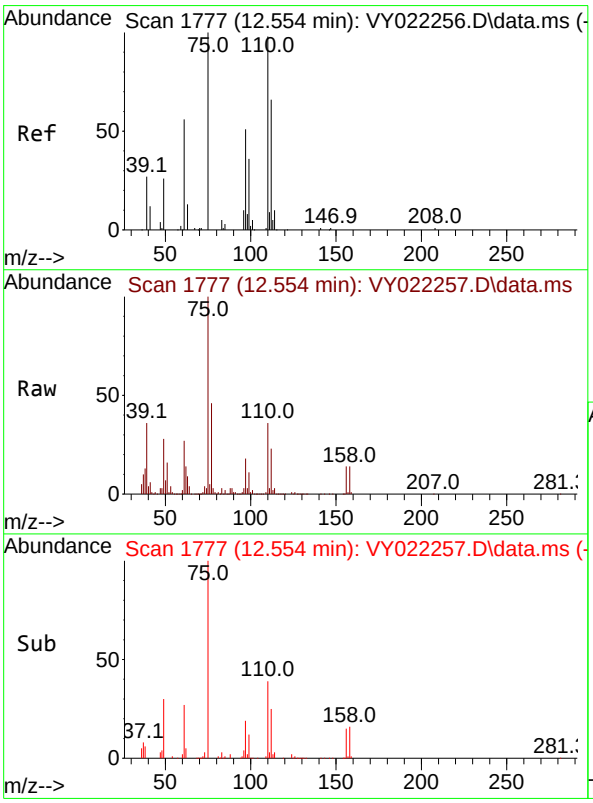
#75
1,1,2,2-Tetrachloroethane
Concen: 101.255 ug/l
RT: 12.505 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 83 Resp: 244830

Ion	Ratio	Lower	Upper
83	100		
131	9.9	4.9	14.7
85	64.4	32.0	96.0

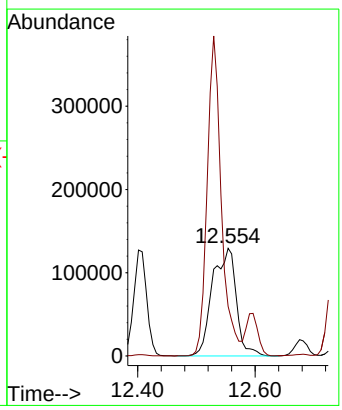


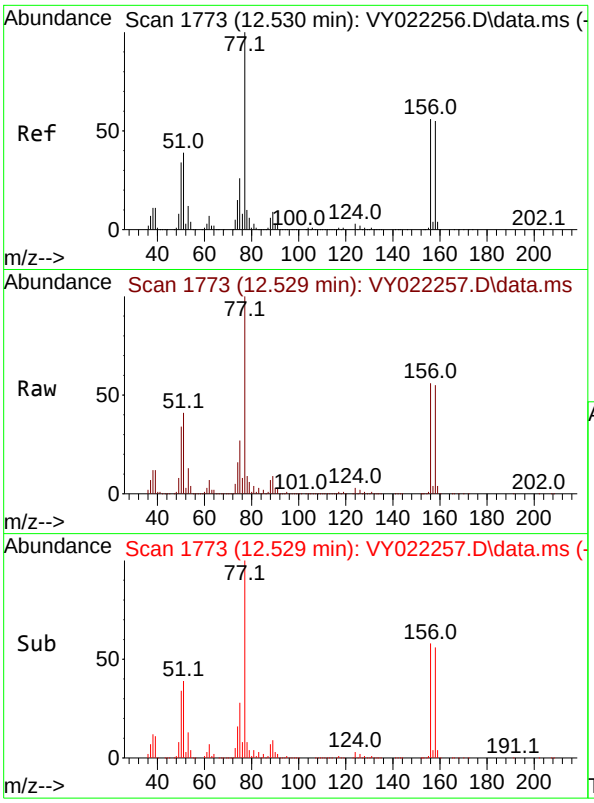


#76
1,2,3-Trichloropropane
Concen: 108.654 ug/l
RT: 12.554 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 75 Resp: 363417

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0



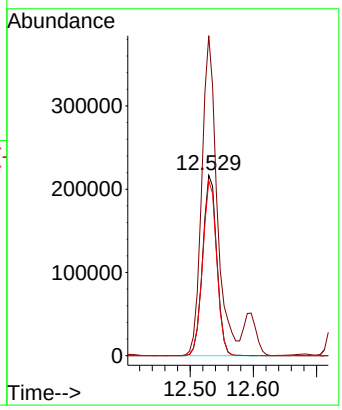


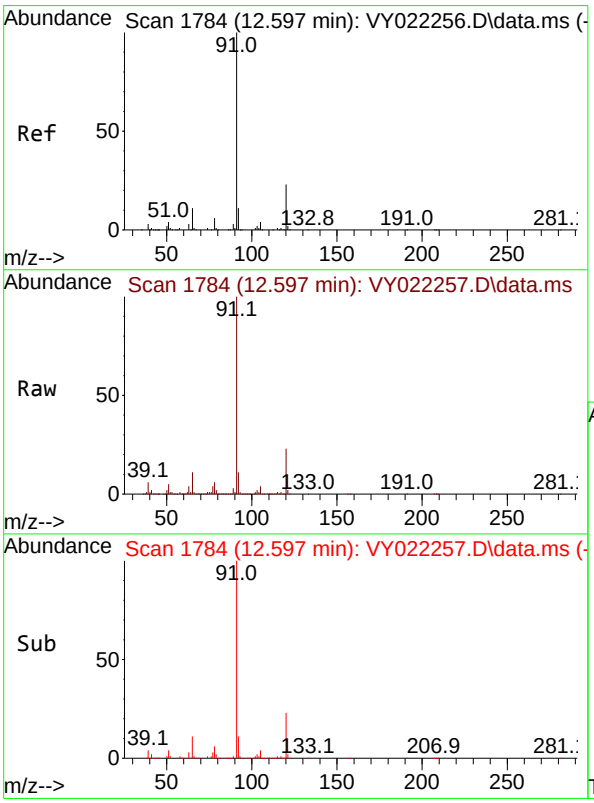
#77
Bromobenzene
Concen: 100.456 ug/l
RT: 12.529 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion:156 Resp: 337329

Ion	Ratio	Lower	Upper
156	100		
77	190.3	94.5	283.6
158	96.8	48.4	145.3

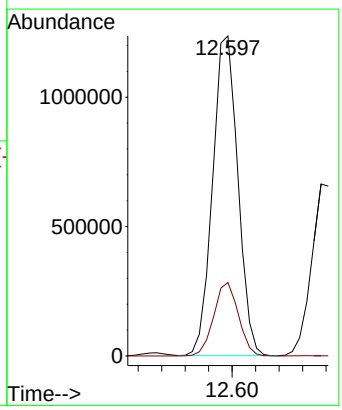


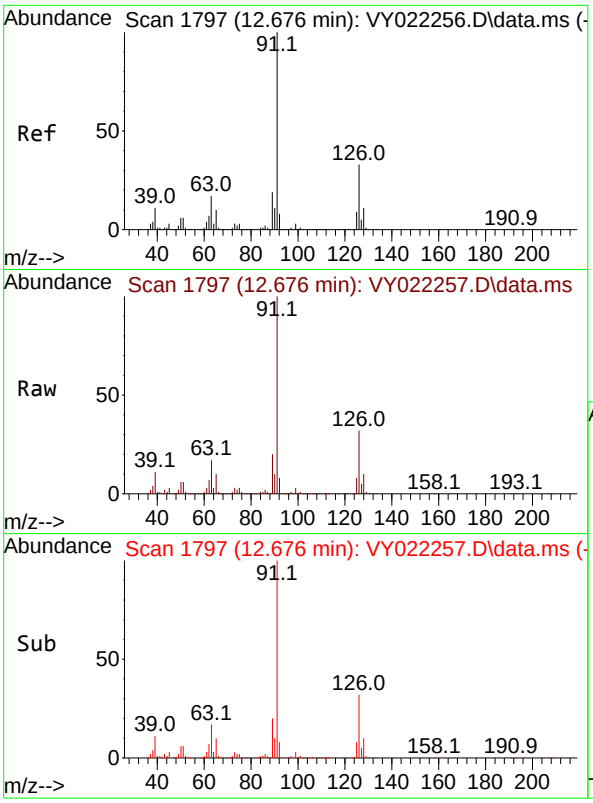


#78
n-propylbenzene
Concen: 97.365 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 91 Resp: 1846449

Ion	Ratio	Lower	Upper
91	100		
120	22.4	11.1	33.3



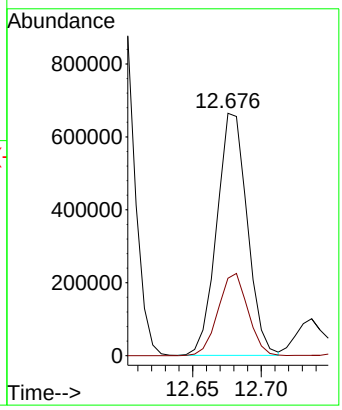


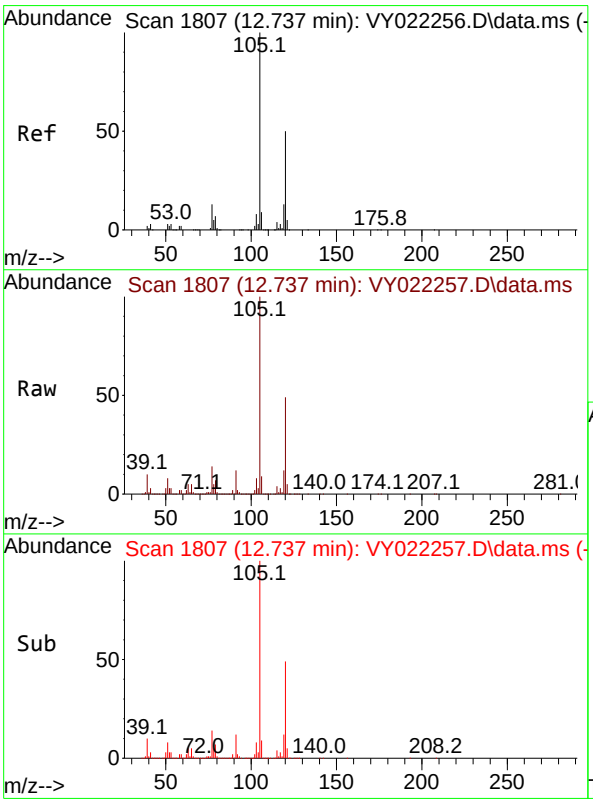
#79
2-Chlorotoluene
Concen: 98.488 ug/l
RT: 12.676 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 91 Resp: 1026401

Ion	Ratio	Lower	Upper
91	100		
126	33.3	16.8	50.4

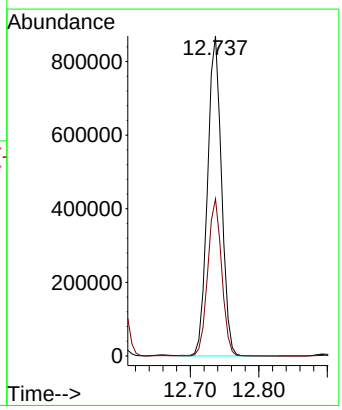


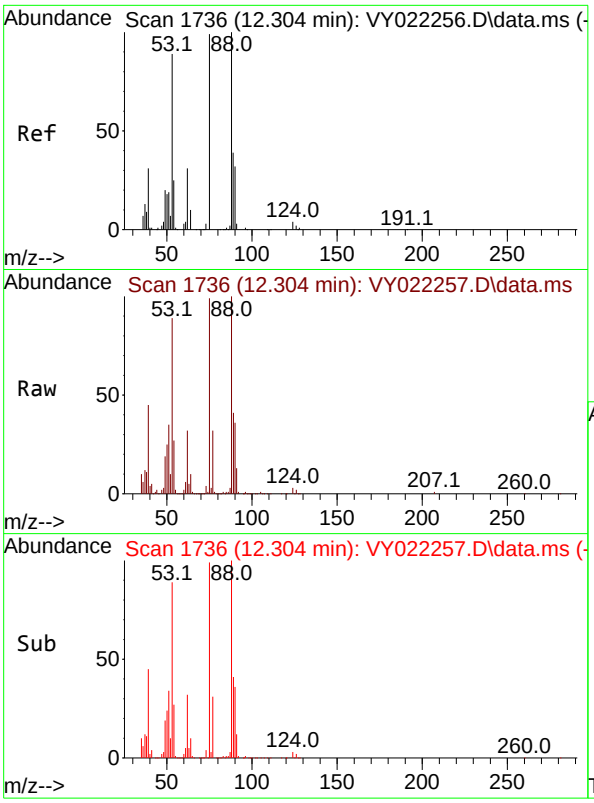


#80
1,3,5-Trimethylbenzene
Concen: 97.216 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion:105 Resp: 1233838

Ion	Ratio	Lower	Upper
105	100		
120	48.8	24.2	72.6



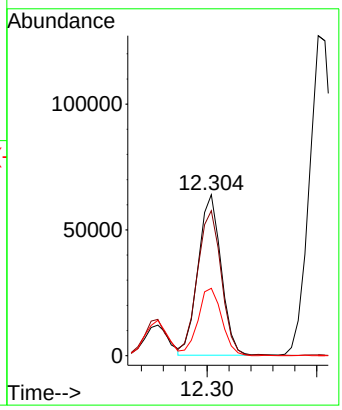


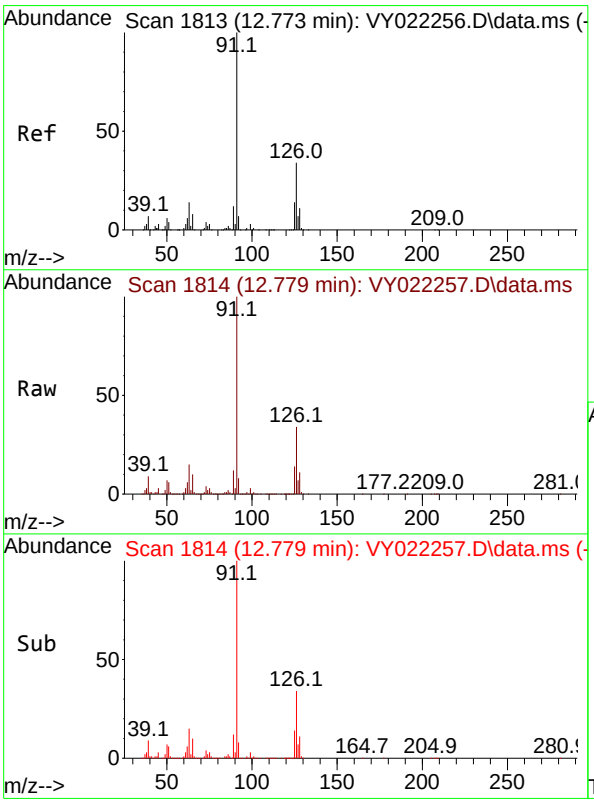
#81
trans-1,4-Dichloro-2-butene
Concen: 98.251 ug/l
RT: 12.304 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 75 Resp: 93252

Ion	Ratio	Lower	Upper
75	100		
53	92.8	75.8	113.8
89	43.5	36.2	54.2

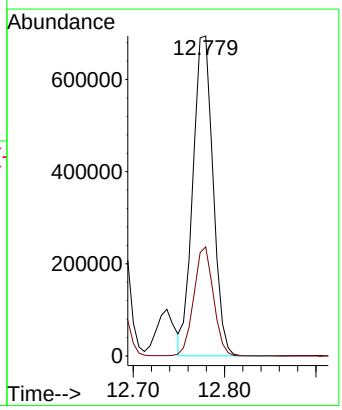


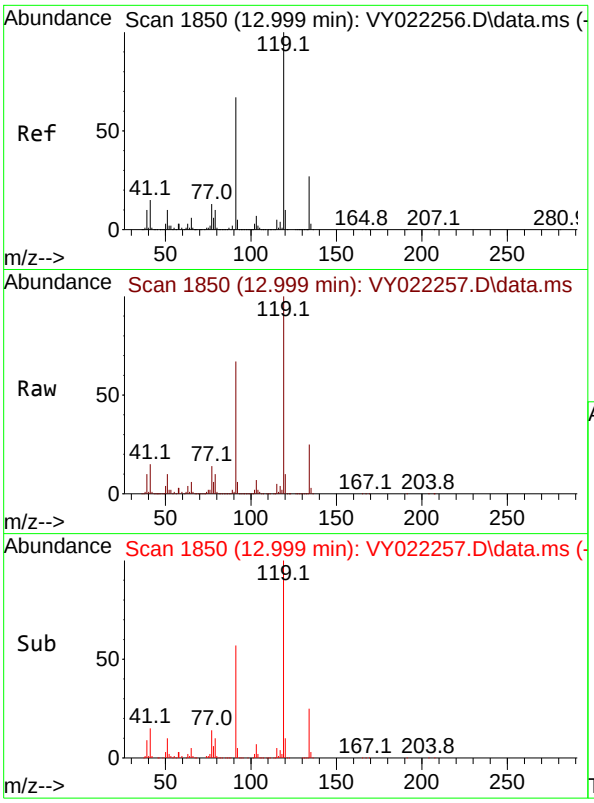


#82
4-Chlorotoluene
Concen: 99.052 ug/l
RT: 12.779 min Scan# 1814
Delta R.T. 0.006 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 91 Resp: 1061772

Ion	Ratio	Lower	Upper
91	100		
126	33.3	16.8	50.4



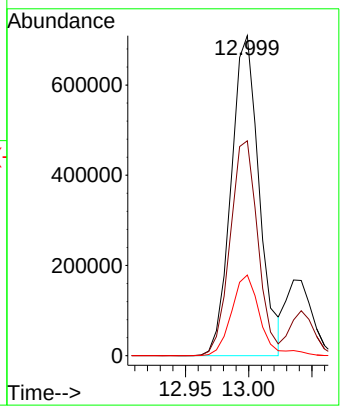


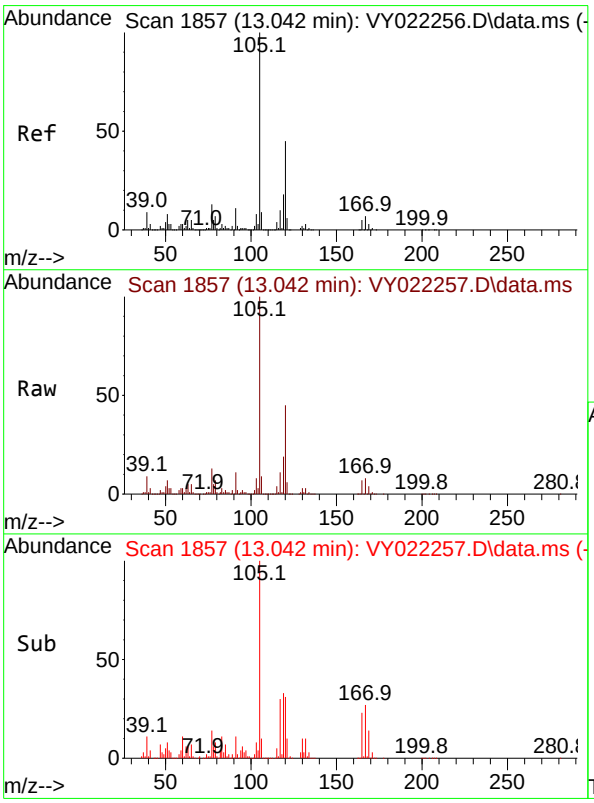
#83
tert-Butylbenzene
Concen: 96.859 ug/l
RT: 12.999 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion:119 Resp: 1092617

Ion	Ratio	Lower	Upper
119	100		
91	66.3	32.8	98.3
134	25.8	12.9	38.6

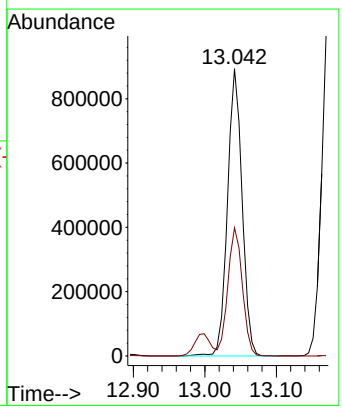


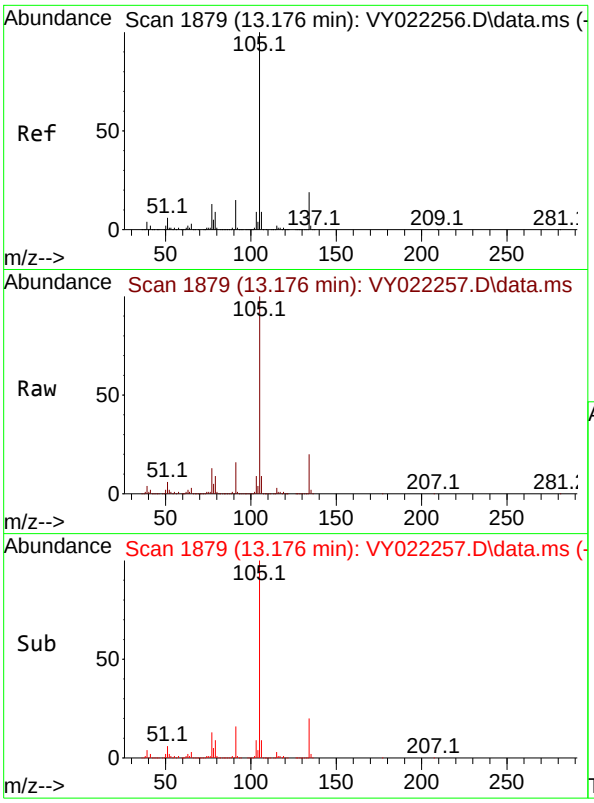


#84
1,2,4-Trimethylbenzene
Concen: 100.297 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion:105 Resp: 1263612

Ion	Ratio	Lower	Upper
105	100		
120	44.3	22.3	66.9



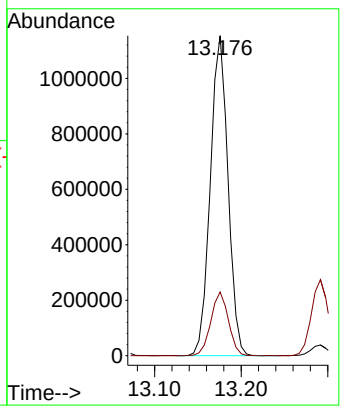


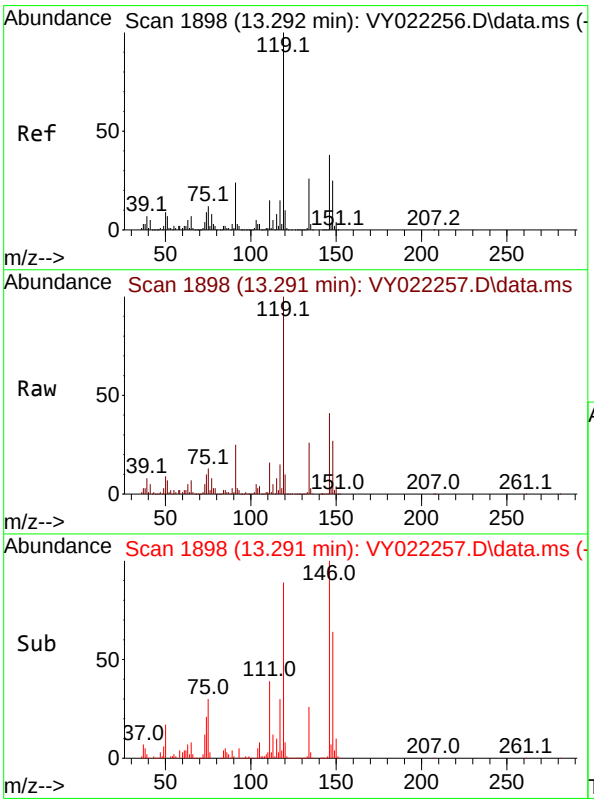
#85
sec-Butylbenzene
Concen: 97.623 ug/l
RT: 13.176 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion:105 Resp: 1634720

Ion	Ratio	Lower	Upper
105	100		
134	19.8	9.8	29.5

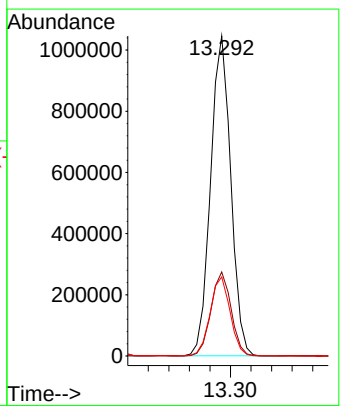


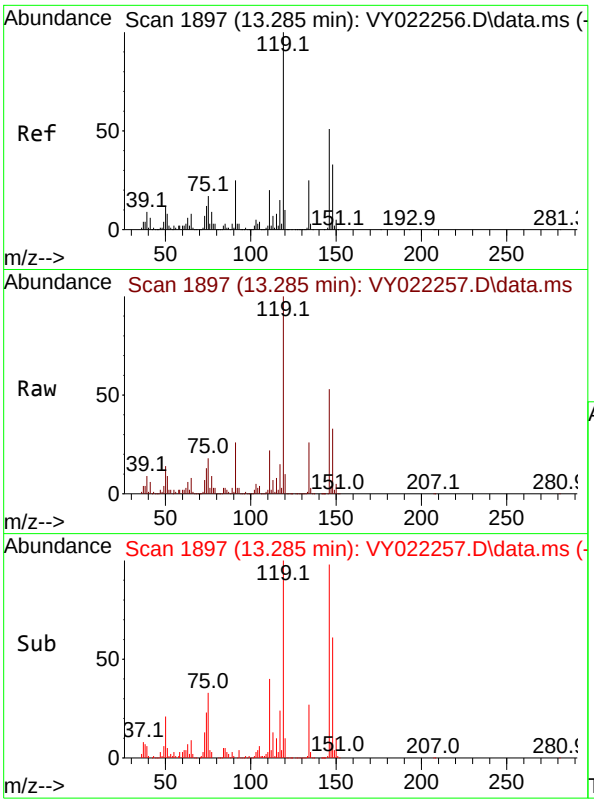


#86
p-Isopropyltoluene
Concen: 101.161 ug/l
RT: 13.291 min Scan# 1898
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion:119 Resp: 1424684

Ion	Ratio	Lower	Upper
119	100		
134	26.2	12.9	38.6
91	24.4	12.1	36.3



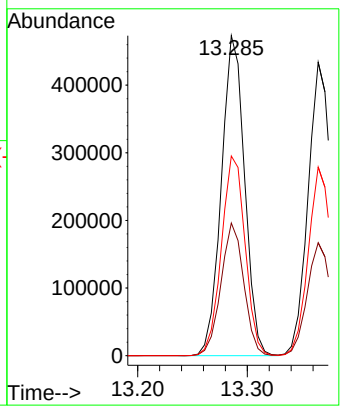


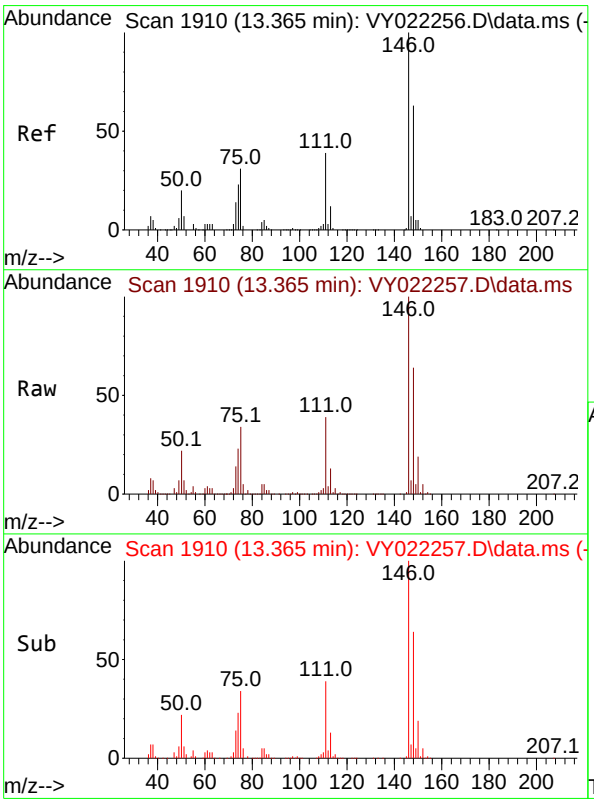
#87
1,3-Dichlorobenzene
Concen: 101.803 ug/l
RT: 13.285 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion:146 Resp: 697868

Ion	Ratio	Lower	Upper
146	100		
111	40.7	19.9	59.7
148	63.6	31.9	95.7

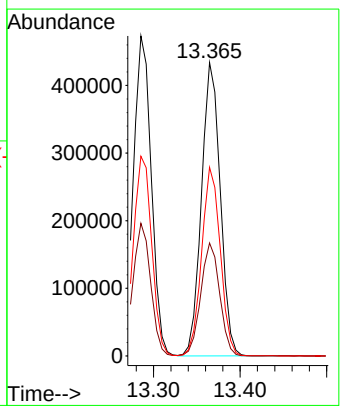


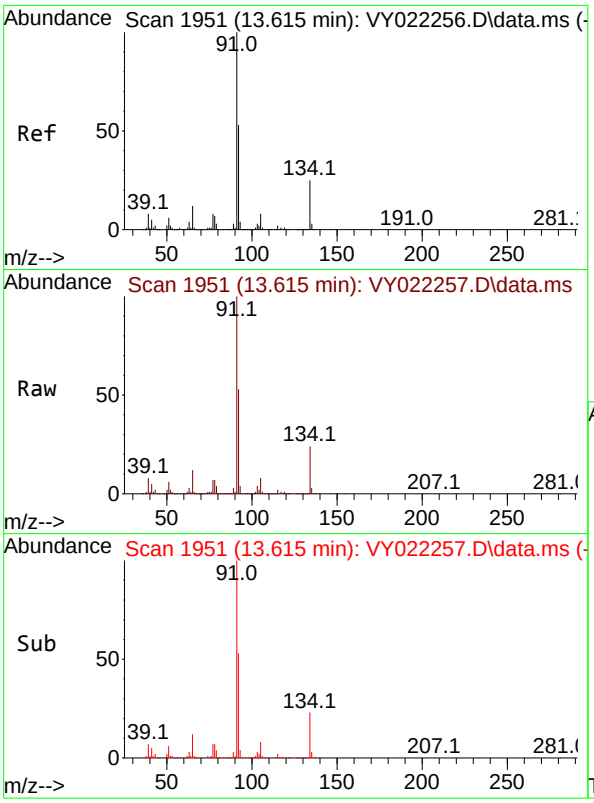


#88
1,4-Dichlorobenzene
Concen: 99.199 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion:146 Resp: 654104

Ion	Ratio	Lower	Upper
146	100		
111	38.6	20.0	59.9
148	63.7	32.1	96.5



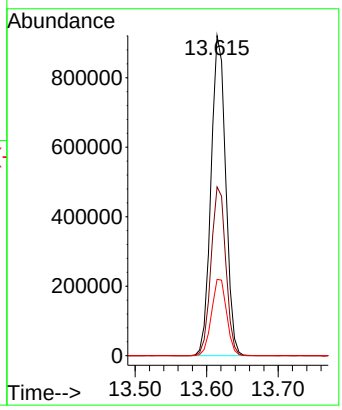


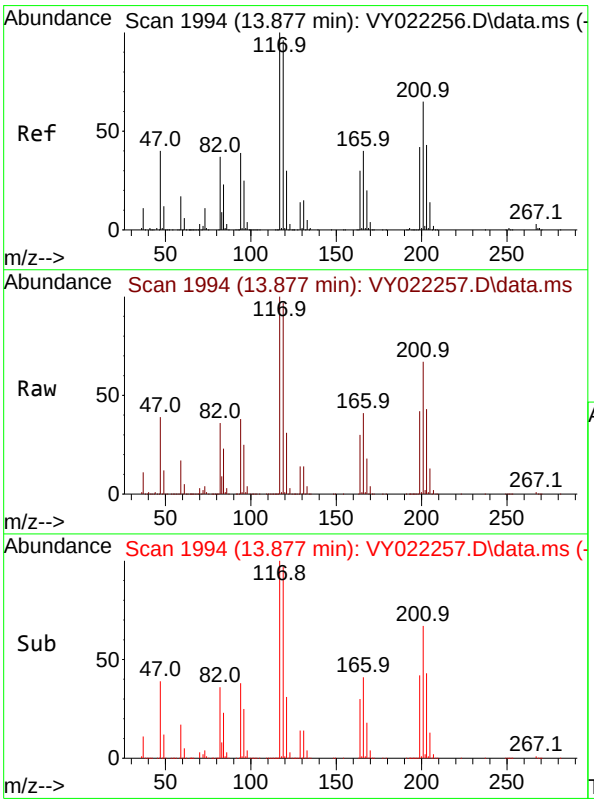
#89
n-Butylbenzene
Concen: 98.327 ug/l
RT: 13.615 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 91 Resp: 1310061

Ion	Ratio	Lower	Upper
91	100		
92	53.1	26.3	78.9
134	24.6	12.4	37.4

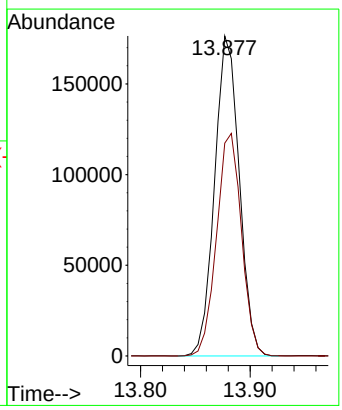


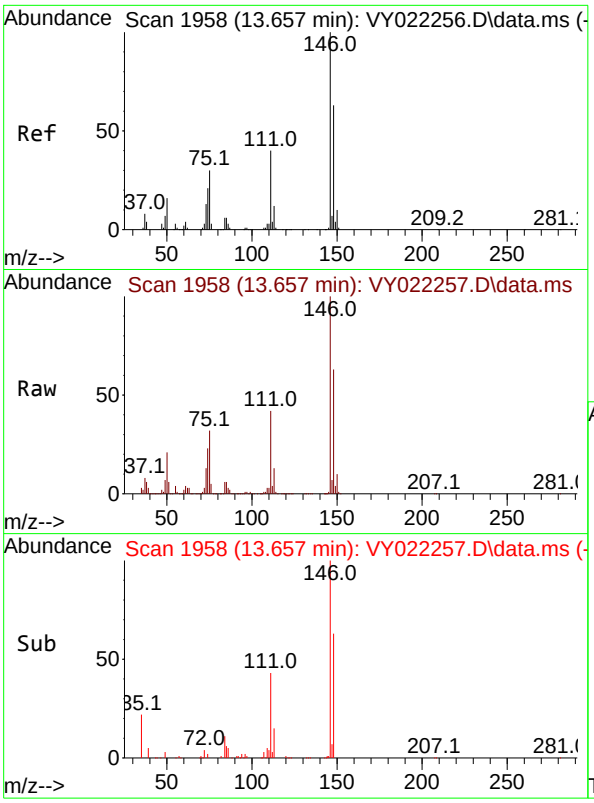


#90
Hexachloroethane
Concen: 96.961 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion:117 Resp: 275652

Ion	Ratio	Lower	Upper
117	100		
201	70.4	35.2	105.6



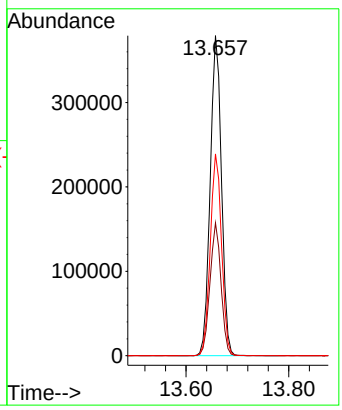


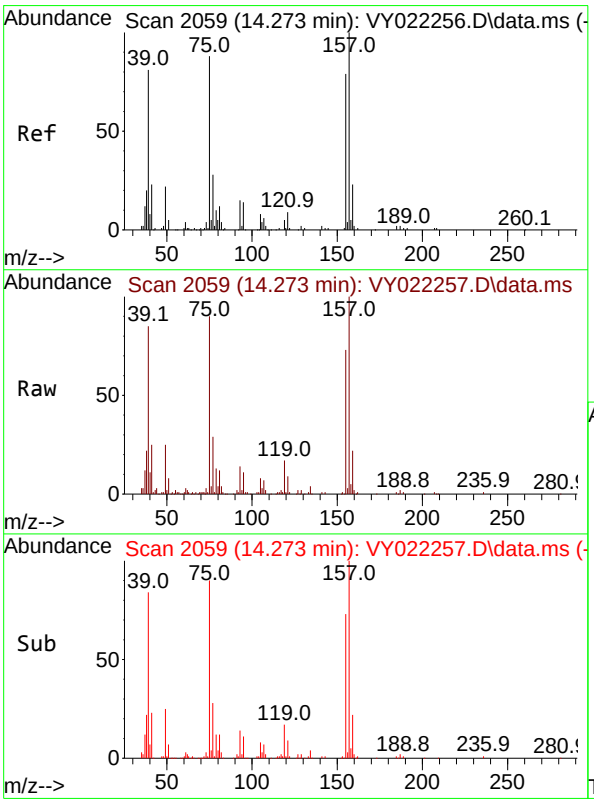
#91
1,2-Dichlorobenzene
Concen: 100.192 ug/l
RT: 13.657 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion:146 Resp: 576915

Ion	Ratio	Lower	Upper
146	100		
111	40.8	20.5	61.5
148	63.2	32.0	96.0

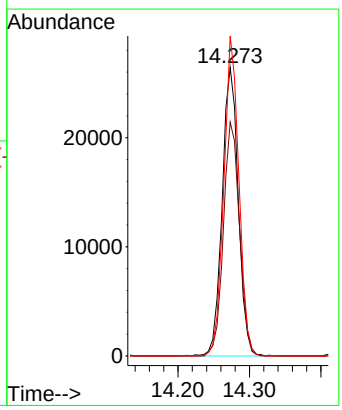


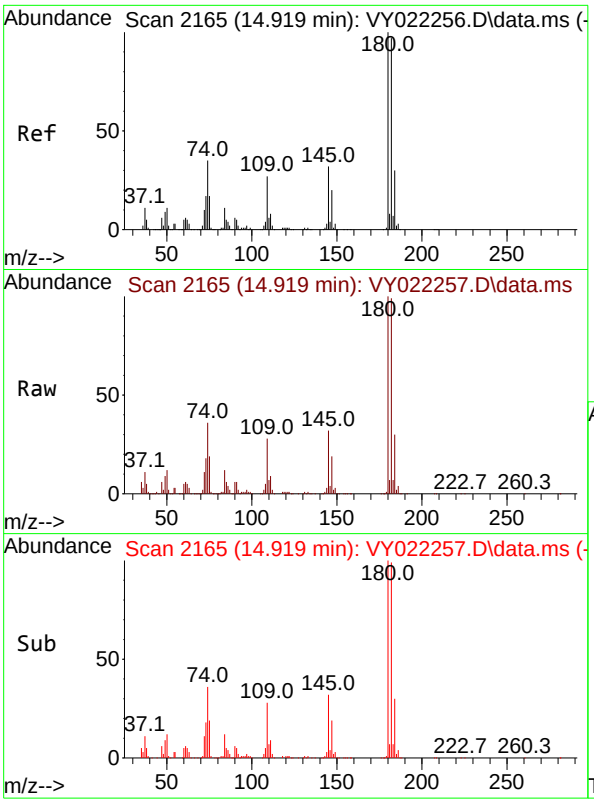


#92
1,2-Dibromo-3-Chloropropane
Concen: 105.859 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion: 75 Resp: 41275

Ion	Ratio	Lower	Upper
75	100		
155	81.3	43.4	130.1
157	104.0	54.6	163.9



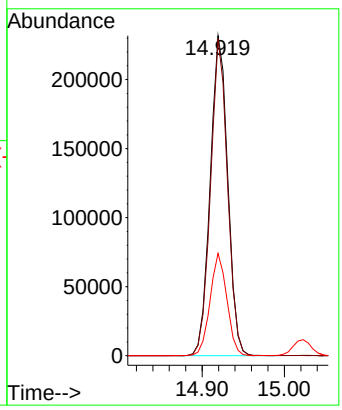


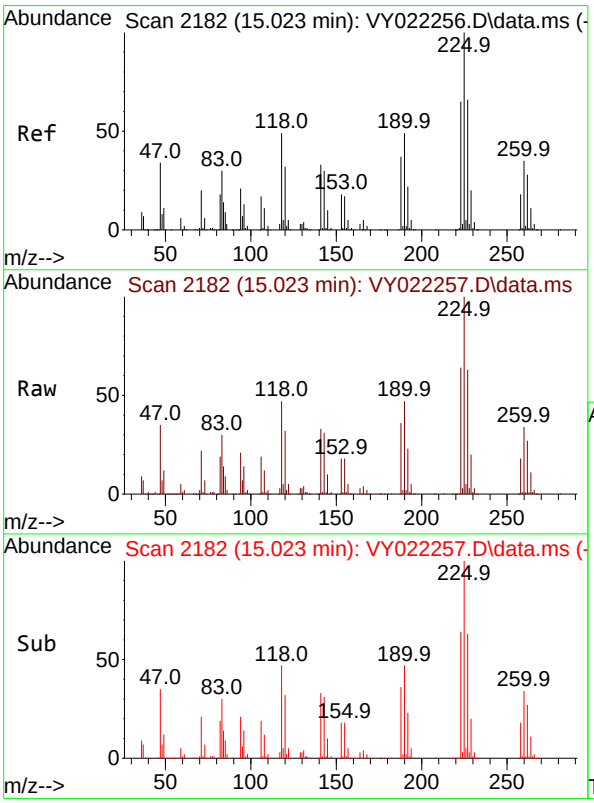
#93
1,2,4-Trichlorobenzene
Concen: 103.107 ug/l
RT: 14.919 min Scan# 21
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion:180 Resp: 342939

Ion	Ratio	Lower	Upper
180	100		
182	95.8	48.0	144.0
145	30.7	15.0	45.1

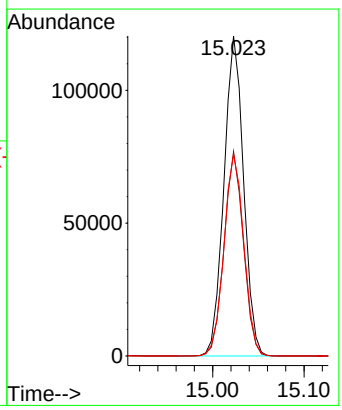


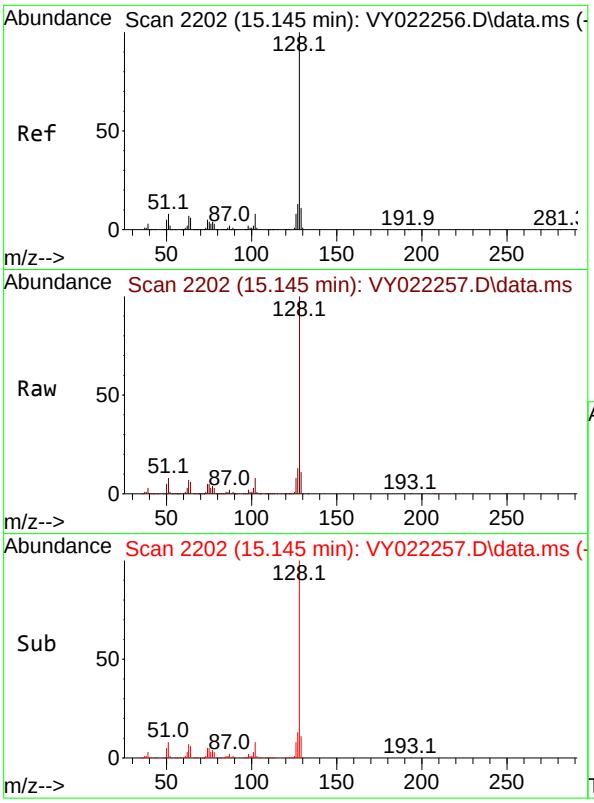


#94
Hexachlorobutadiene
Concen: 97.075 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion:225 Resp: 180060

Ion	Ratio	Lower	Upper
225	100		
223	62.8	31.5	94.5
227	64.1	32.1	96.3



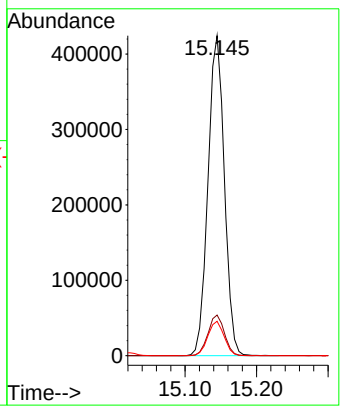


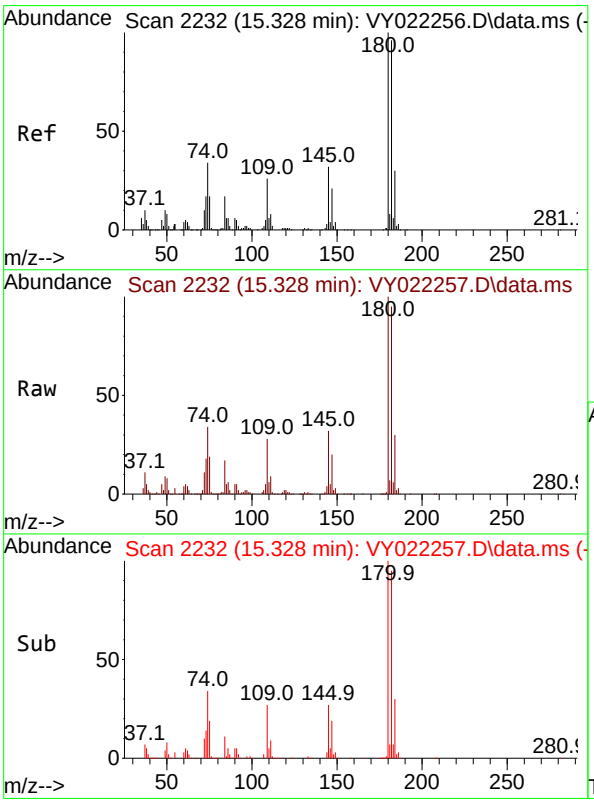
#95
Naphthalene
Concen: 106.935 ug/l
RT: 15.145 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion:128 Resp: 674950

Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.2	15.2
129	10.8	8.8	13.2

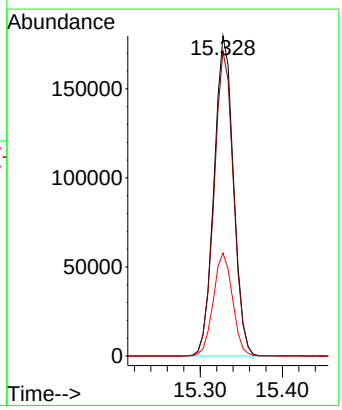




#96
1,2,3-Trichlorobenzene
Concen: 104.488 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. -0.000 min
Lab File: VY022257.D
Acq: 15 May 2025 11:24

Tgt Ion:180 Resp: 294823

Ion	Ratio	Lower	Upper
180	100		
182	95.3	47.1	141.3
145	31.8	15.9	47.6



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022258.D
Acq On : 15 May 2025 11:47
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Quant Time: May 16 01:25:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:19:39 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	271027	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	442917	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	389769	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	187978	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	455385	153.739	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 307.480%#			
35) Dibromofluoromethane	7.634	113	412318	155.969	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 311.940%#			
50) Toluene-d8	10.103	98	1689714	156.065	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 312.120%#			
62) 4-Bromofluorobenzene	12.402	95	541367	157.751	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 315.500%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.861	85	389593	137.760	ug/l	100
3) Chloromethane	2.068	50	727243	122.246	ug/l	99
4) Vinyl Chloride	2.202	62	902596	135.801	ug/l	97
5) Bromomethane	2.586	94	780107	144.182	ug/l	99
6) Chloroethane	2.727	64	590870	142.898	ug/l	98
7) Trichlorofluoromethane	3.050	101	989291	147.013	ug/l	99
8) Diethyl Ether	3.452	74	236216	146.270	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.812	101	422397	144.588	ug/l	100
10) Methyl Iodide	4.001	142	518980	153.489	ug/l	98
11) Tert butyl alcohol	4.866	59	172549	762.834	ug/l #	100
12) 1,1-Dichloroethene	3.787	96	425285	146.697	ug/l	97
13) Acrolein	3.653	56	237291	717.595	ug/l	98
14) Allyl chloride	4.379	41	756728	148.866	ug/l	100
15) Acrylonitrile	5.055	53	512850	770.708	ug/l	100
16) Acetone	3.873	43	375443	675.976	ug/l	99
17) Carbon Disulfide	4.104	76	1365378	144.429	ug/l	100
18) Methyl Acetate	4.385	43	282084	166.915	ug/l	99
19) Methyl tert-butyl Ether	5.116	73	1225258	153.279	ug/l	98
20) Methylene Chloride	4.616	84	448817	125.059	ug/l	99
21) trans-1,2-Dichloroethene	5.110	96	472143	147.547	ug/l	99
22) Diisopropyl ether	6.019	45	1626927	151.557	ug/l	99
23) Vinyl Acetate	5.958	43	4953644	763.831	ug/l	100
24) 1,1-Dichloroethane	5.915	63	879785	146.697	ug/l	99
25) 2-Butanone	6.890	43	708010	762.091	ug/l	98
26) 2,2-Dichloropropane	6.884	77	787195	147.575	ug/l	100
27) cis-1,2-Dichloroethene	6.890	96	563503	152.601	ug/l	100
28) Bromochloromethane	7.244	49	387221	151.369	ug/l	100
29) Tetrahydrofuran	7.262	42	472224	790.072	ug/l	100
30) Chloroform	7.421	83	859317	149.381	ug/l	98
31) Cyclohexane	7.701	56	821784	137.144	ug/l	98
32) 1,1,1-Trichloroethane	7.616	97	784014	148.554	ug/l	99
36) 1,1-Dichloropropene	7.835	75	658871	151.316	ug/l	99
37) Ethyl Acetate	6.982	43	320686	153.067	ug/l	99
38) Carbon Tetrachloride	7.817	117	696139	154.450	ug/l	100
39) Methylcyclohexane	9.110	83	886329	151.510	ug/l	98
40) Benzene	8.079	78	1987535	153.973	ug/l	99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022258.D
Acq On : 15 May 2025 11:47
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Quant Time: May 16 01:25:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:19:39 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.220	41	174771	114.006	ug/l	#	85
42) 1,2-Dichloroethane	8.159	62	534517	153.124	ug/l		99
43) Isopropyl Acetate	8.195	43	704366	154.159	ug/l	#	89
44) Trichloroethene	8.866	130	481990	150.171	ug/l		96
45) 1,2-Dichloropropane	9.140	63	472217	151.736	ug/l		97
46) Dibromomethane	9.231	93	258087	153.757	ug/l		99
47) Bromodichloromethane	9.420	83	669834	153.824	ug/l		99
48) Methyl methacrylate	9.219	41	344147	161.060	ug/l		99
49) 1,4-Dioxane	9.231	88	61019	3217.888	ug/l		95
51) 4-Methyl-2-Pentanone	10.000	43	1829015	815.822	ug/l		99
52) Toluene	10.170	92	1276917	156.216	ug/l		99
53) t-1,3-Dichloropropene	10.390	75	663513	156.134	ug/l		100
54) cis-1,3-Dichloropropene	9.853	75	754493	154.963	ug/l		99
55) 1,1,2-Trichloroethane	10.573	97	330716	153.863	ug/l		99
56) Ethyl methacrylate	10.439	69	535897	160.058	ug/l		99
57) 1,3-Dichloropropane	10.719	76	584253	152.987	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.713	63	1350536	898.675	ug/l		99
59) 2-Hexanone	10.762	43	1227881	816.860	ug/l		99
60) Dibromochloromethane	10.908	129	438666	157.237	ug/l		99
61) 1,2-Dibromoethane	11.012	107	308529	154.008	ug/l		99
64) Tetrachloroethene	10.646	164	501627	139.237	ug/l		100
65) Chlorobenzene	11.438	112	1336594	151.997	ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.518	131	480525	158.952	ug/l		100
67) Ethyl Benzene	11.518	91	2598027	157.756	ug/l		99
68) m/p-Xylenes	11.627	106	1992413	321.066	ug/l		99
69) o-Xylene	11.957	106	937727	159.714	ug/l		99
70) Styrene	11.969	104	1613798	162.944	ug/l		100
71) Bromoform	12.133	173	254251	155.818	ug/l	#	99
73) Isopropylbenzene	12.255	105	2357568	151.387	ug/l		100
74) N-amyl acetate	12.066	43	694999	156.041	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.505	83	375378	156.735	ug/l		100
76) 1,2,3-Trichloropropane	12.554	75	546605	164.989	ug/l	#	100
77) Bromobenzene	12.530	156	509579	153.206	ug/l		99
78) n-propylbenzene	12.591	91	2822794	150.276	ug/l		100
79) 2-Chlorotoluene	12.676	91	1563003	151.415	ug/l		100
80) 1,3,5-Trimethylbenzene	12.737	105	1888432	150.219	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.304	75	139931	148.846	ug/l		99
82) 4-Chlorotoluene	12.774	91	1616520	152.250	ug/l		99
83) tert-Butylbenzene	12.993	119	1699962	152.144	ug/l		100
84) 1,2,4-Trimethylbenzene	13.042	105	1934641	155.030	ug/l		100
85) sec-Butylbenzene	13.176	105	2493393	150.330	ug/l		100
86) p-Isopropyltoluene	13.292	119	2205275	158.088	ug/l		99
87) 1,3-Dichlorobenzene	13.286	146	1079479	158.981	ug/l		99
88) 1,4-Dichlorobenzene	13.365	146	969874	148.497	ug/l		99
89) n-Butylbenzene	13.615	91	1992554	150.985	ug/l		99
90) Hexachloroethane	13.877	117	417341	148.208	ug/l		99
91) 1,2-Dichlorobenzene	13.658	146	858733	150.565	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.273	75	58383	151.172	ug/l		99
93) 1,2,4-Trichlorobenzene	14.919	180	508537	154.361	ug/l		99
94) Hexachlorobutadiene	15.023	225	261832	142.514	ug/l		100
95) Naphthalene	15.139	128	979369	156.653	ug/l		100
96) 1,2,3-Trichlorobenzene	15.328	180	426231	152.509	ug/l		99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022258.D
Acq On : 15 May 2025 11:47
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Quant Time: May 16 01:25:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:19:39 2025
Response via : Initial Calibration

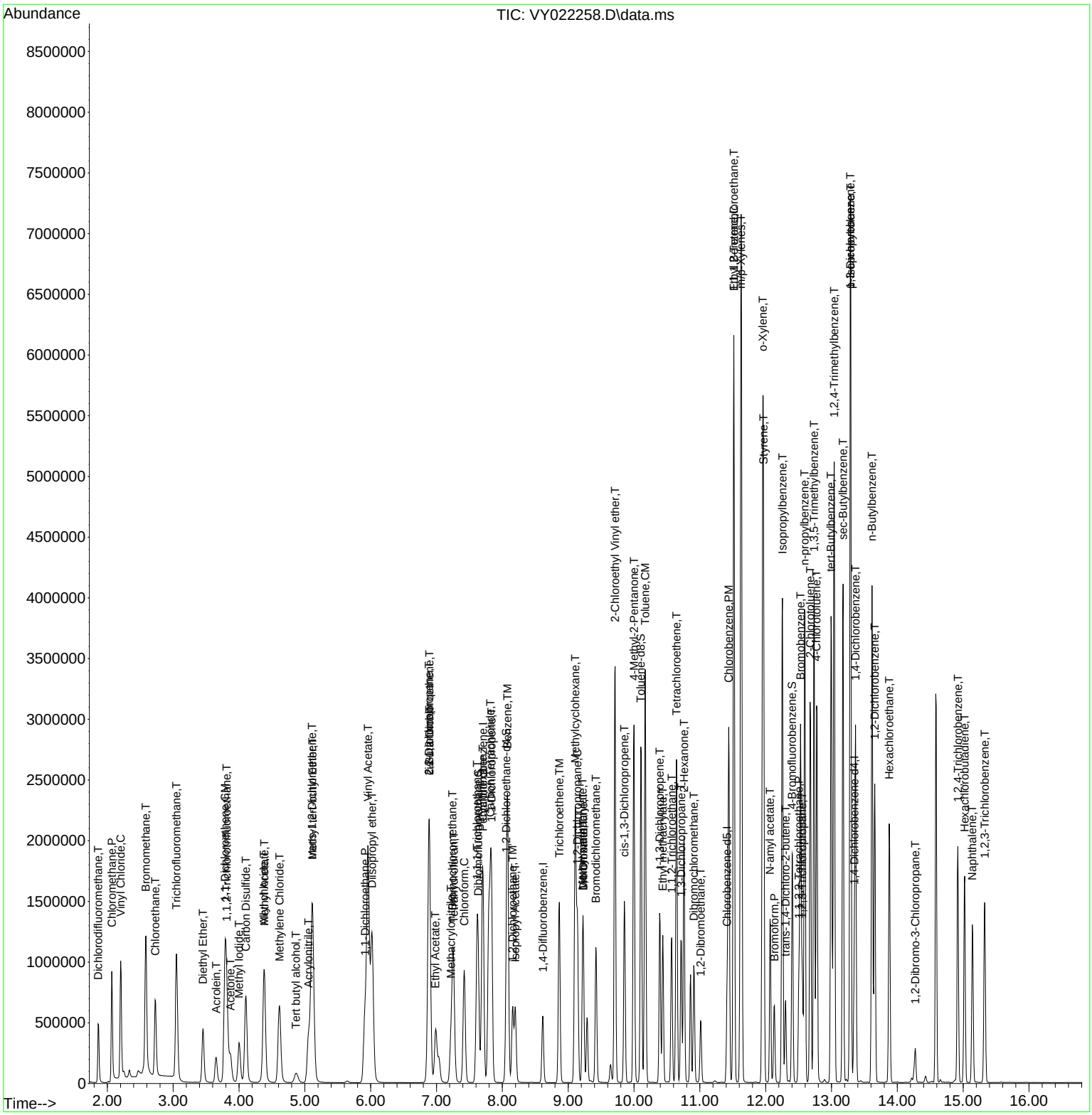
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

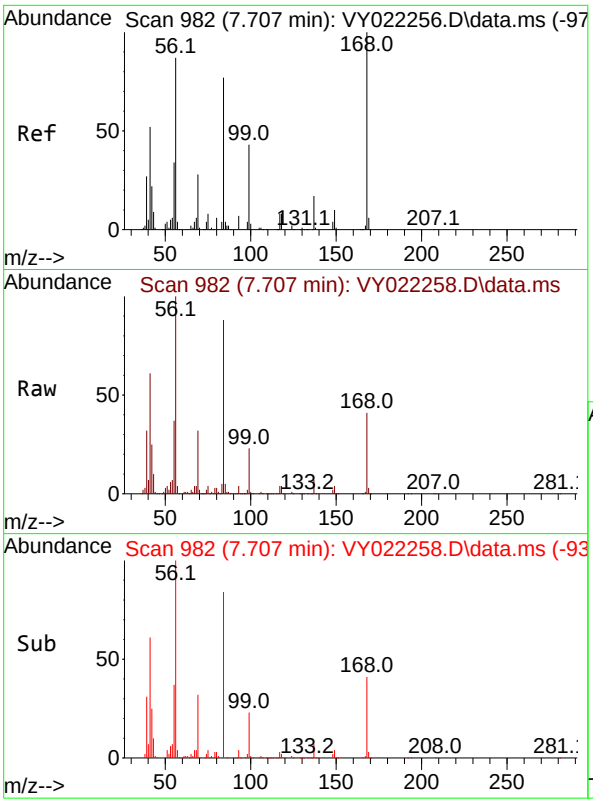
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022258.D
Acq On : 15 May 2025 11:47
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Quant Time: May 16 01:25:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:19:39 2025
Response via : Initial Calibration



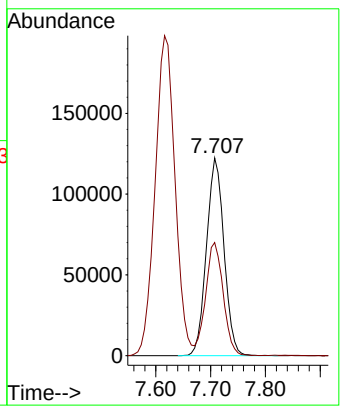


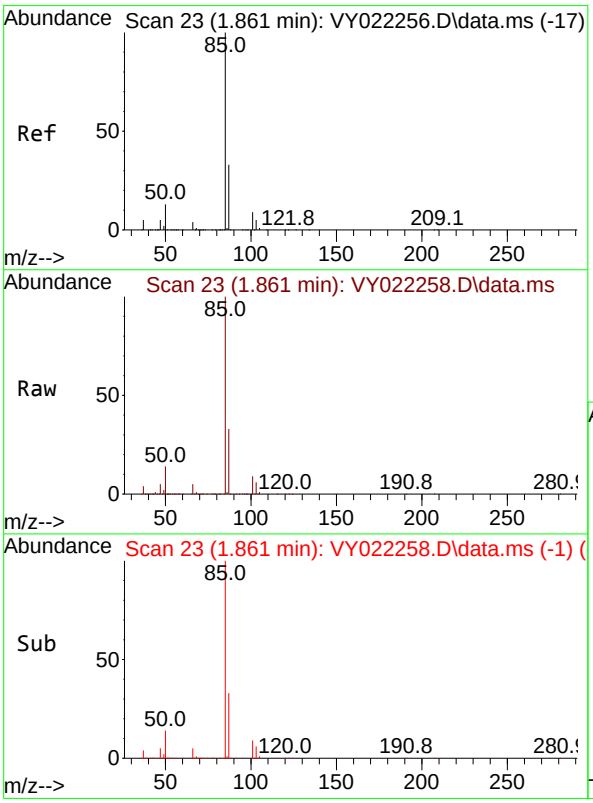
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion:168 Resp: 271027

Ion	Ratio	Lower	Upper
168	100		
99	57.0	44.2	66.4

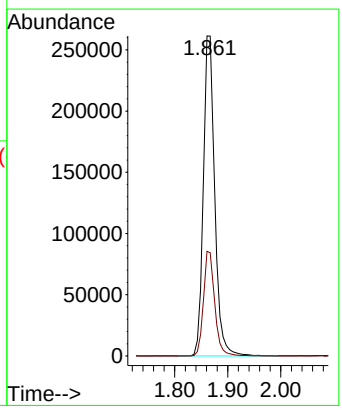


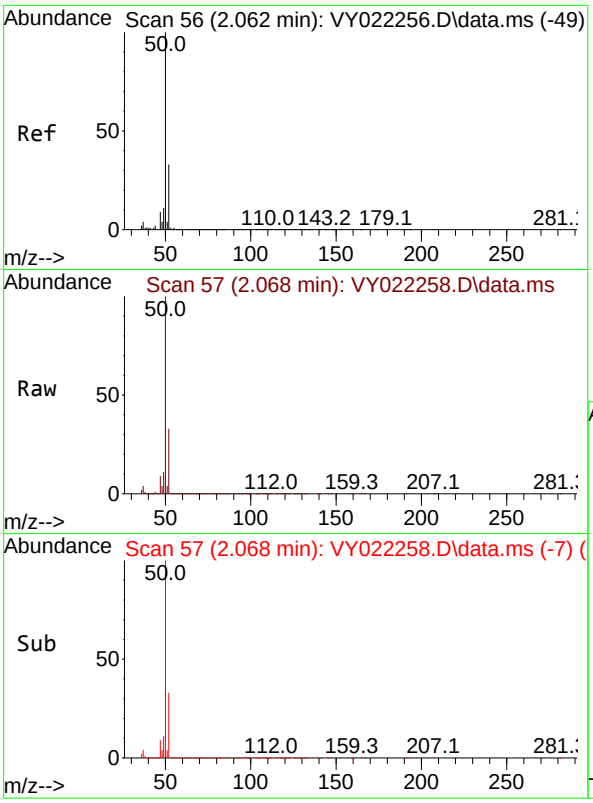


#2
Dichlorodifluoromethane
Concen: 137.760 ug/l
RT: 1.861 min Scan# 23
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 85 Resp: 389593

Ion	Ratio	Lower	Upper
85	100		
87	32.7	16.5	49.5



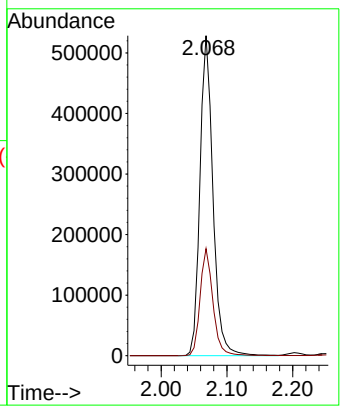


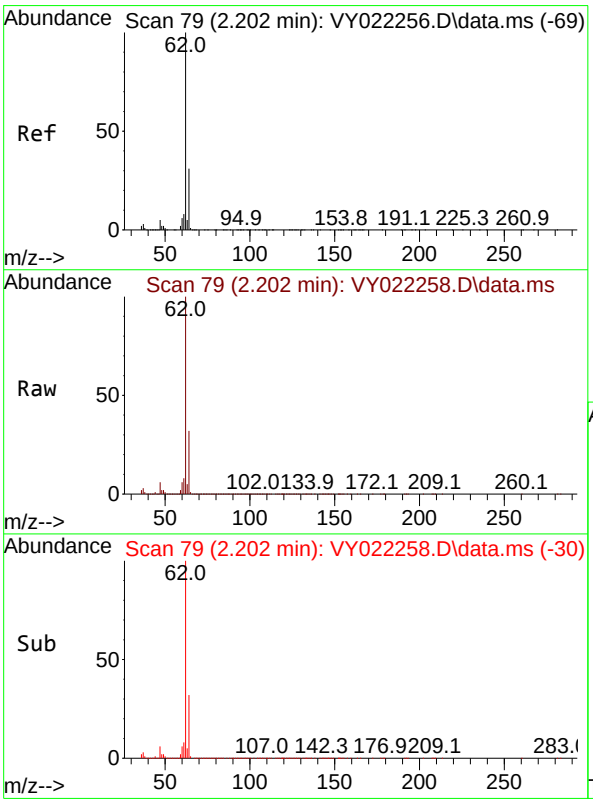
#3
Chloromethane
Concen: 122.246 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 50 Resp: 727243

Ion	Ratio	Lower	Upper
50	100		
52	33.5	26.5	39.7

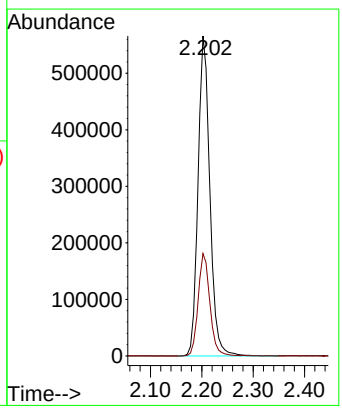


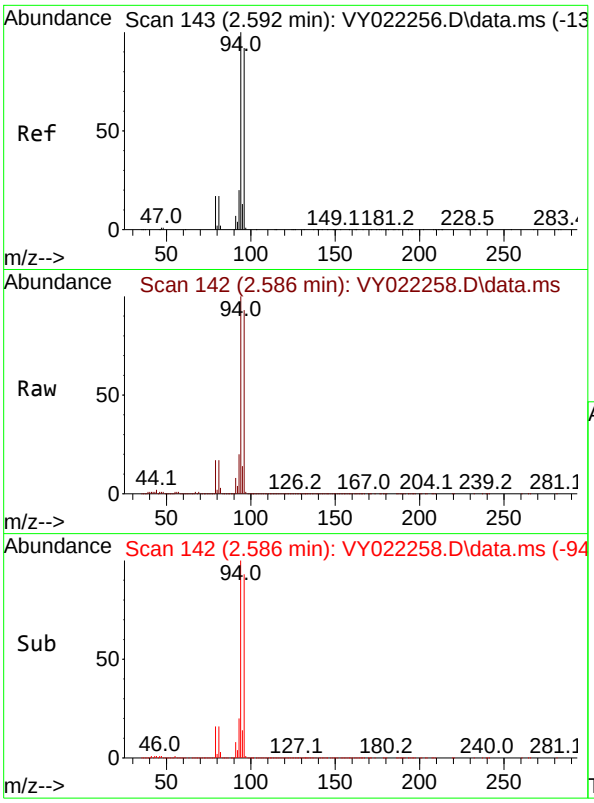


#4
Vinyl Chloride
Concen: 135.801 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 62 Resp: 902596

Ion	Ratio	Lower	Upper
62	100		
64	32.0	24.5	36.7



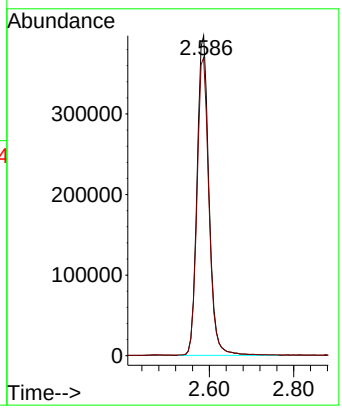


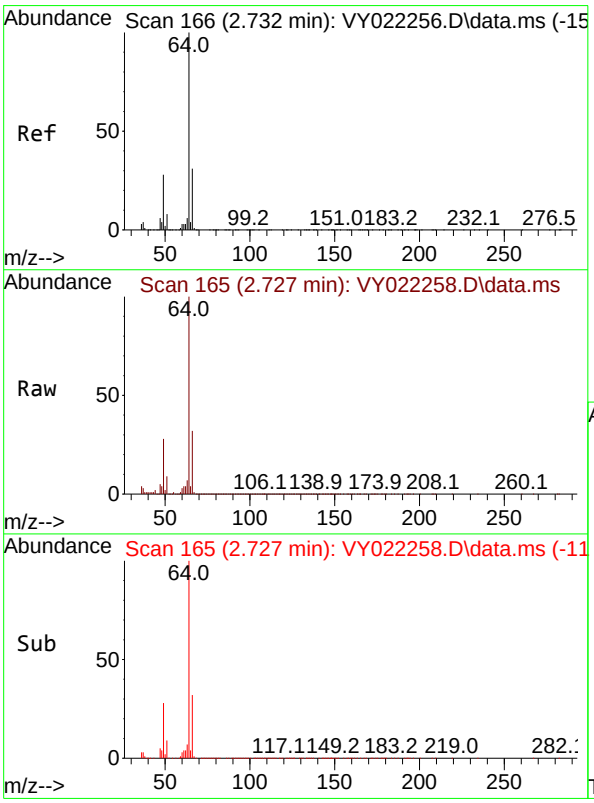
#5
Bromomethane
Concen: 144.182 ug/l
RT: 2.586 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 94 Resp: 780107

Ion	Ratio	Lower	Upper
94	100		
96	93.0	73.4	110.0

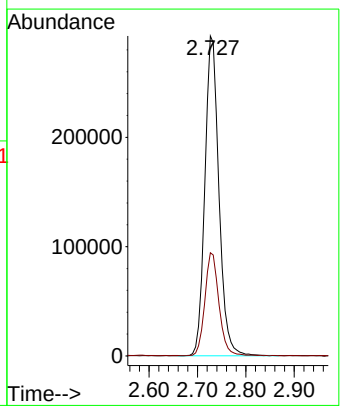


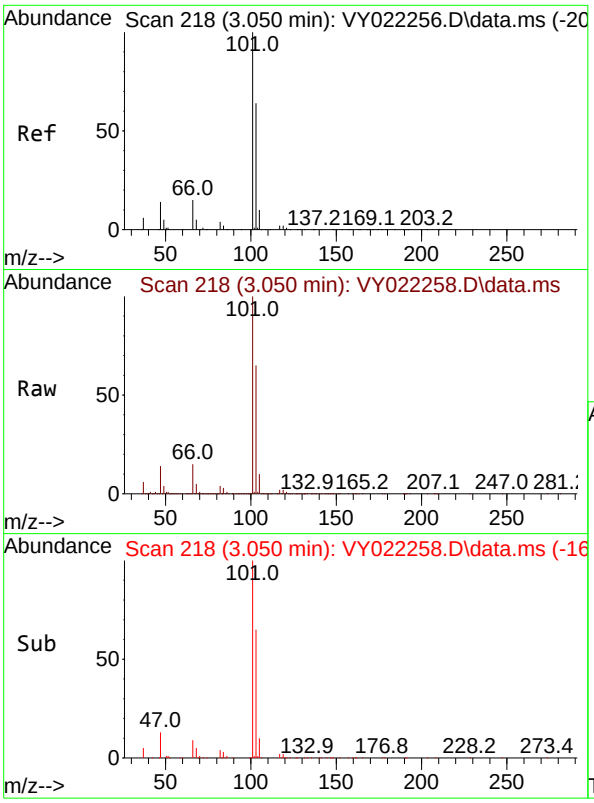


#6
Chloroethane
Concen: 142.898 ug/l
RT: 2.727 min Scan# 165
Delta R.T. -0.006 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 64 Resp: 590870

Ion	Ratio	Lower	Upper
64	100		
66	32.2	24.8	37.2



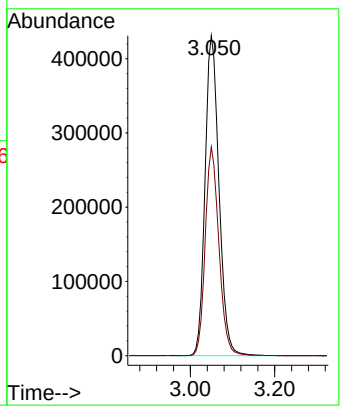


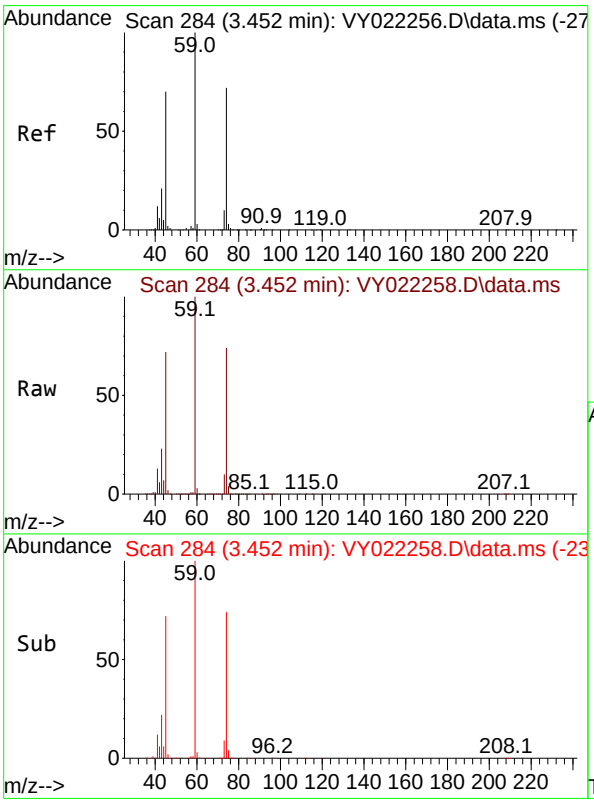
#7
Trichlorofluoromethane
Concen: 147.013 ug/l
RT: 3.050 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion:101 Resp: 989291

Ion	Ratio	Lower	Upper
101	100		
103	65.2	51.7	77.5

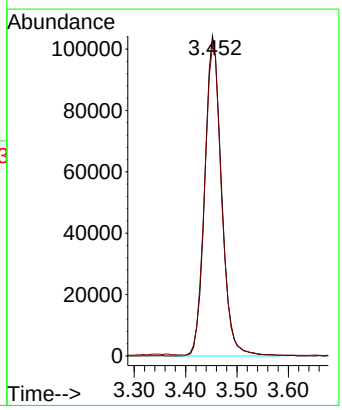


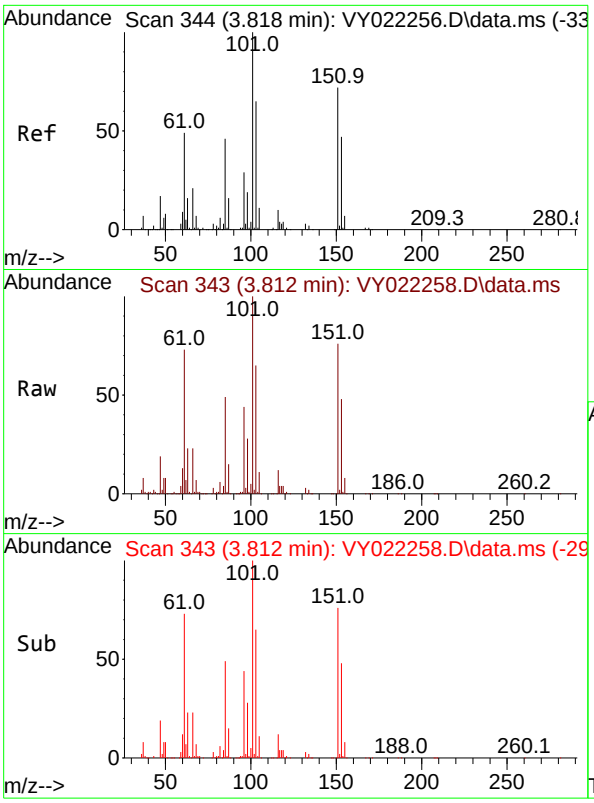


#8
Diethyl Ether
Concen: 146.270 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 74 Resp: 236216

Ion	Ratio	Lower	Upper
74	100		
45	97.9	48.6	145.8



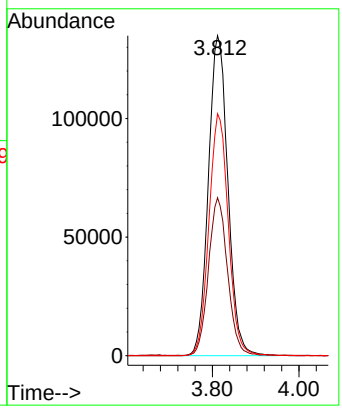


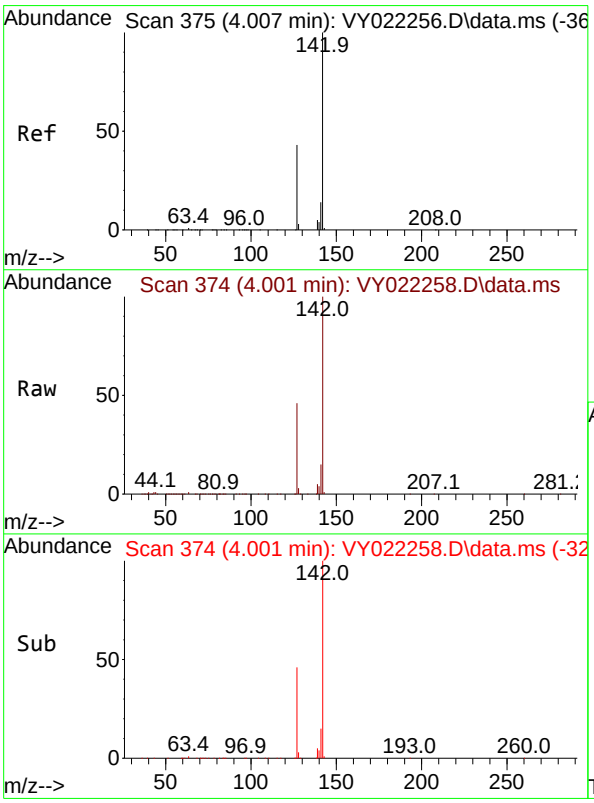
#9
1,1,2-Trichlorotrifluoroethane
Concen: 144.588 ug/l
RT: 3.812 min Scan# 34
Delta R.T. -0.006 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion:101 Resp: 422397

Ion	Ratio	Lower	Upper
101	100		
85	48.2	38.6	58.0
151	75.2	59.7	89.5

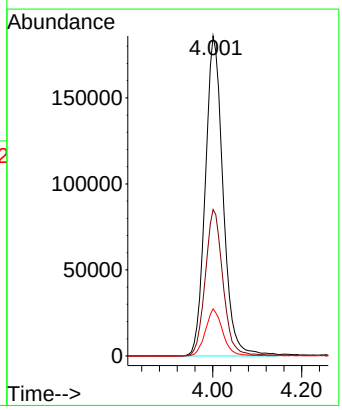


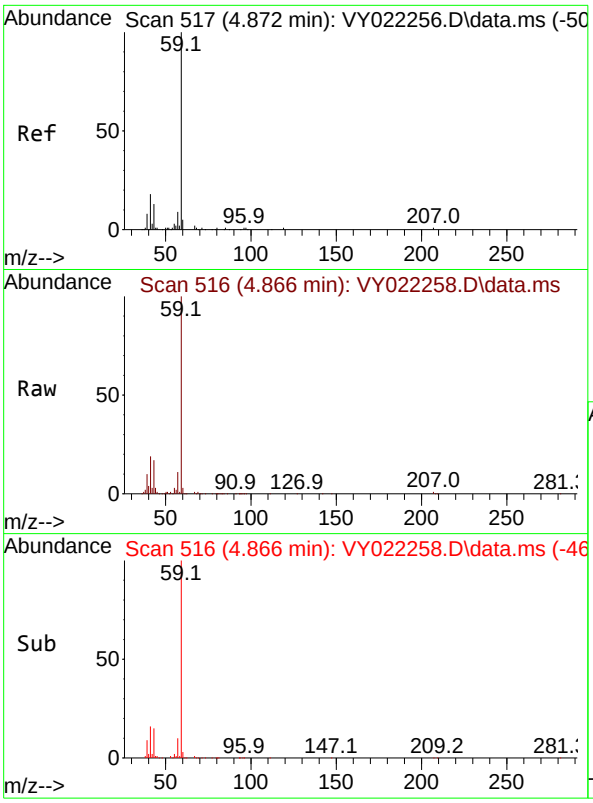


#10
Methyl Iodide
Concen: 153.489 ug/l
RT: 4.001 min Scan# 374
Delta R.T. -0.006 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion:142 Resp: 518980

Ion	Ratio	Lower	Upper
142	100		
127	45.8	35.7	53.5
141	14.3	11.1	16.7



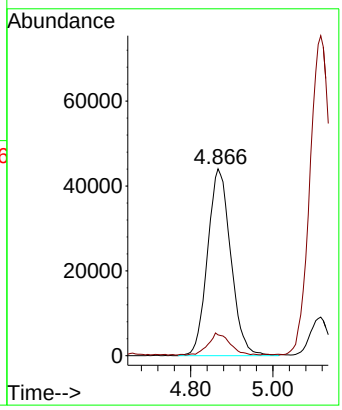


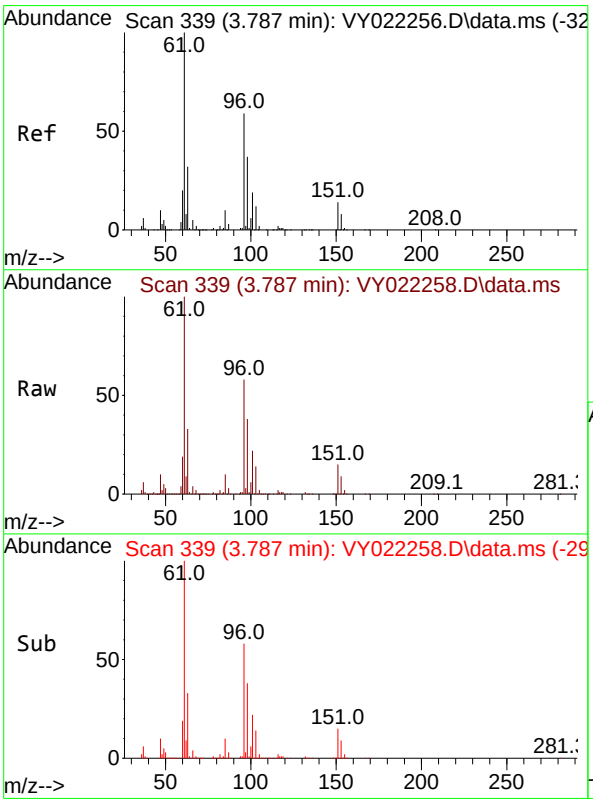
#11
Tert butyl alcohol
Concen: 762.834 ug/l
RT: 4.866 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 59 Resp: 172549

Ion	Ratio	Lower	Upper
59	100		
57	10.9	0.0	0.0#

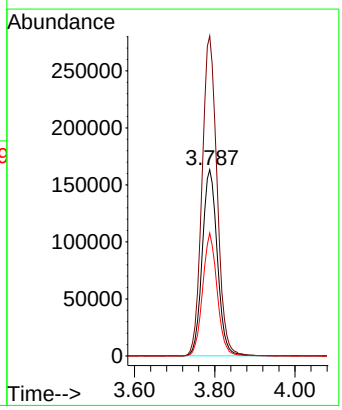


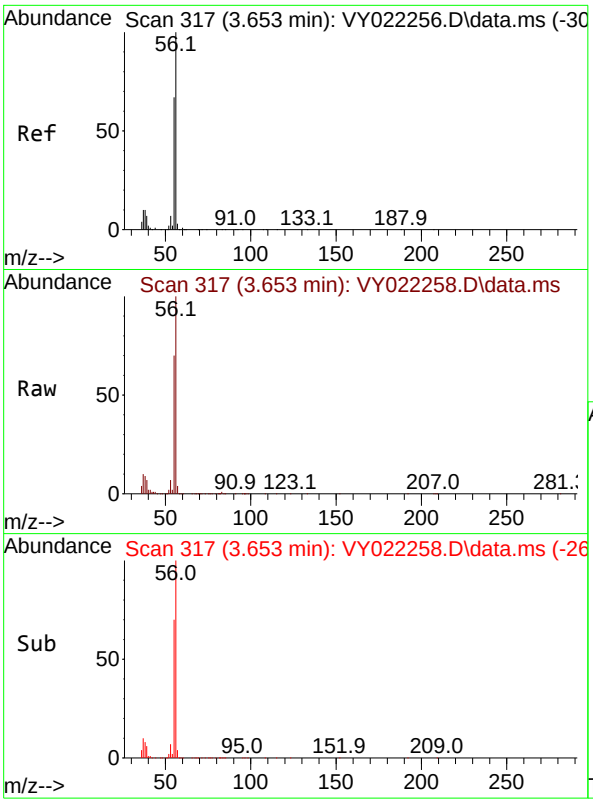


#12
1,1-Dichloroethene
Concen: 146.697 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 96 Resp: 425285

Ion	Ratio	Lower	Upper
96	100		
61	171.9	134.9	202.3
98	65.9	49.9	74.9



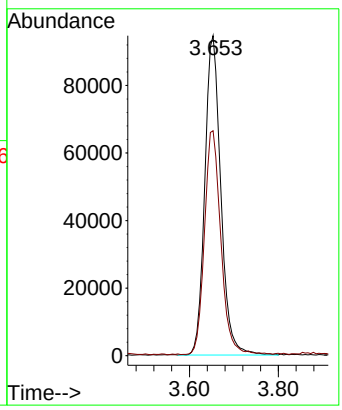


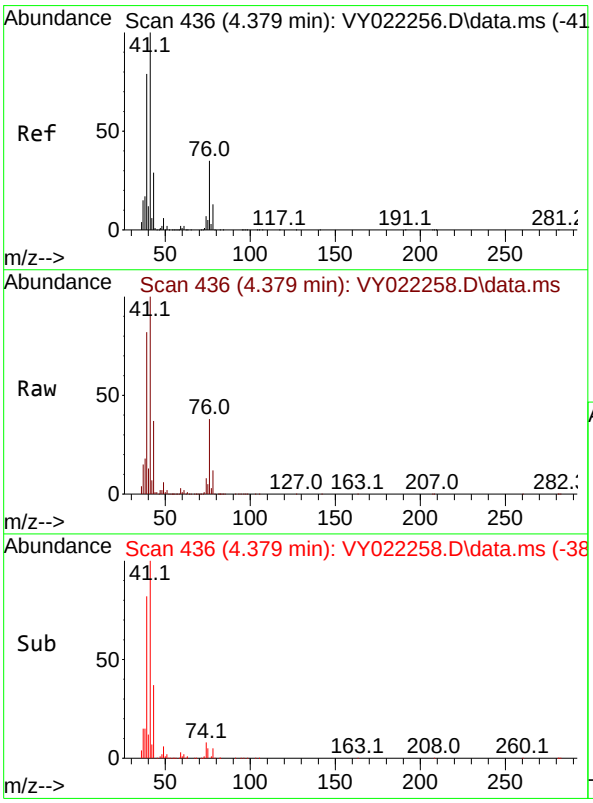
#13
Acrolein
Concen: 717.595 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 56 Resp: 237291

Ion	Ratio	Lower	Upper
56	100		
55	71.5	55.6	83.4

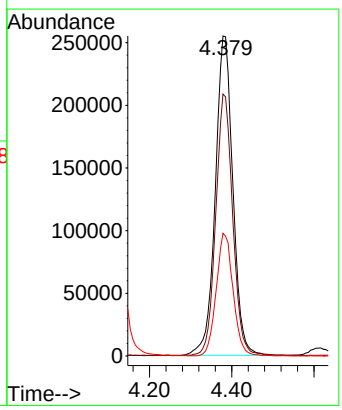


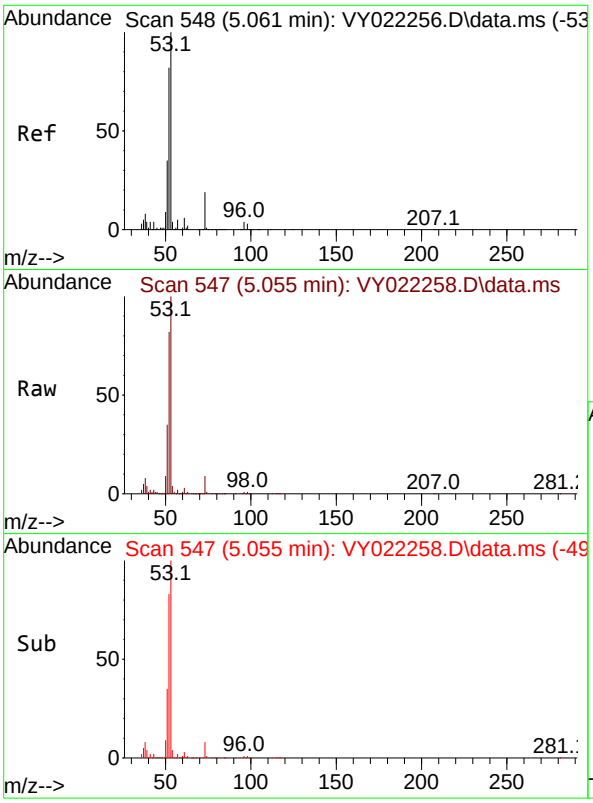


#14
Allyl chloride
Concen: 148.866 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 41 Resp: 756728

Ion	Ratio	Lower	Upper
41	100		
39	79.2	63.4	95.0
76	36.8	29.5	44.3



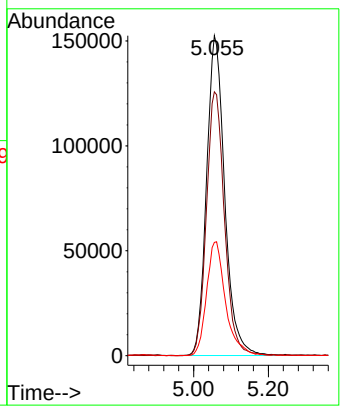


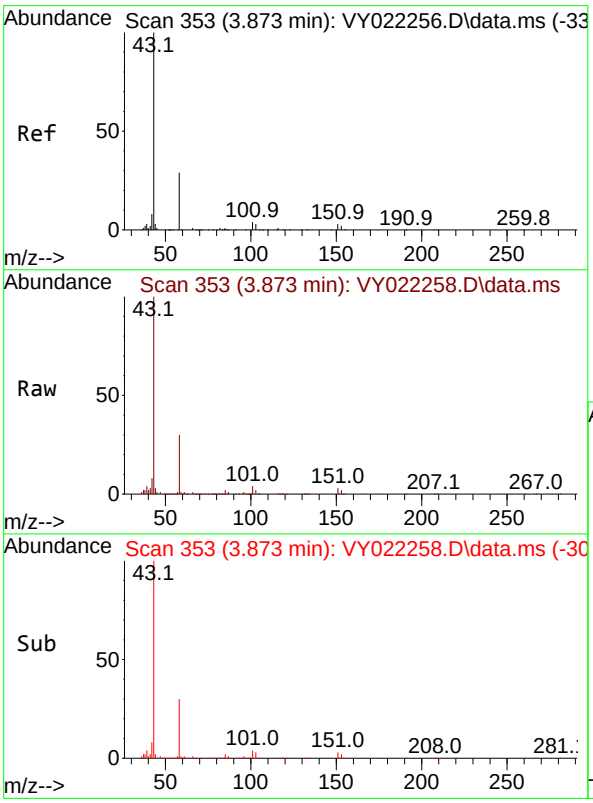
#15
Acrylonitrile
Concen: 770.708 ug/l
RT: 5.055 min Scan# 54
Delta R.T. -0.006 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 53 Resp: 512850

Ion	Ratio	Lower	Upper
53	100		
52	82.4	66.1	99.1
51	37.5	30.0	45.0

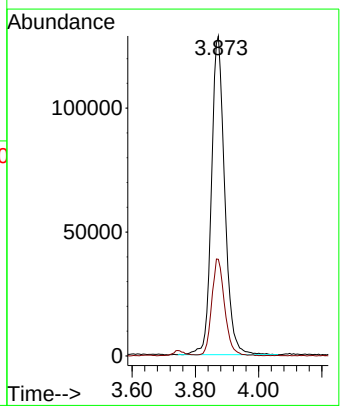


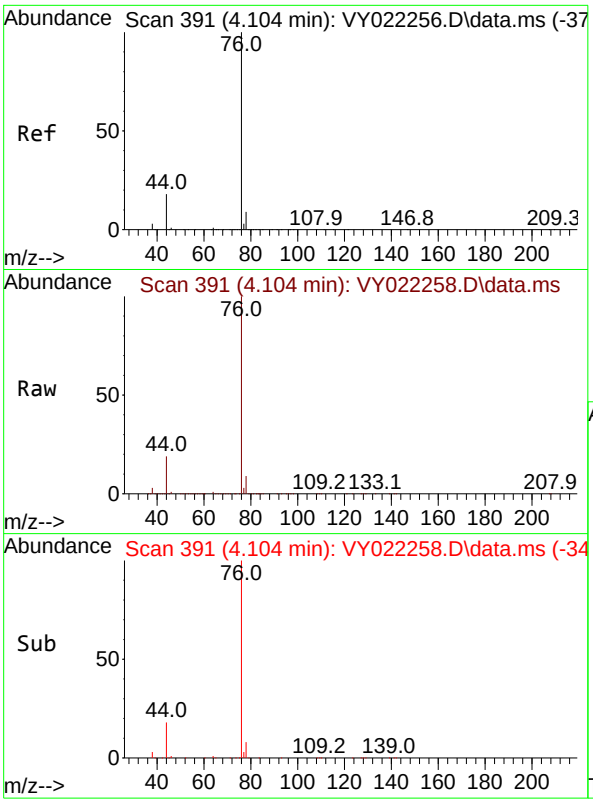


#16
Acetone
Concen: 675.976 ug/l
RT: 3.873 min Scan# 353
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 43 Resp: 375443

Ion	Ratio	Lower	Upper
43	100		
58	30.2	23.6	35.4



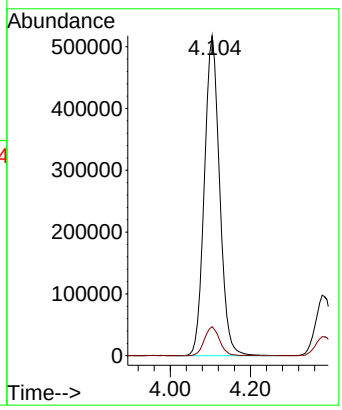


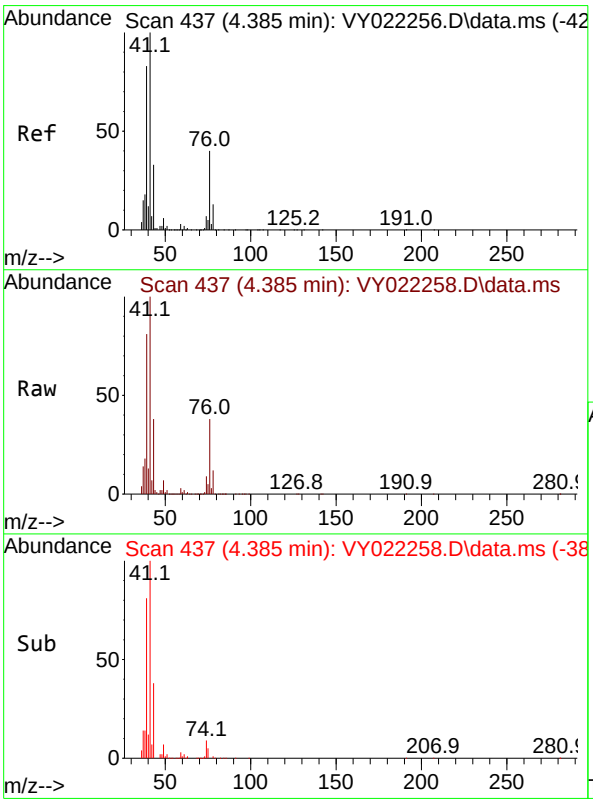
#17
Carbon Disulfide
Concen: 144.429 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 76 Resp: 1365378

Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.2	10.8

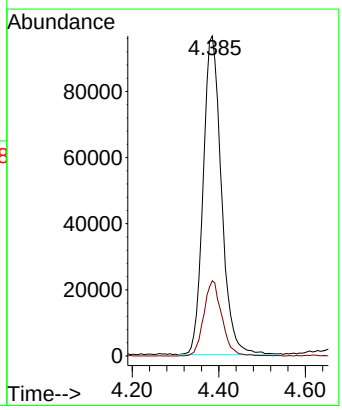


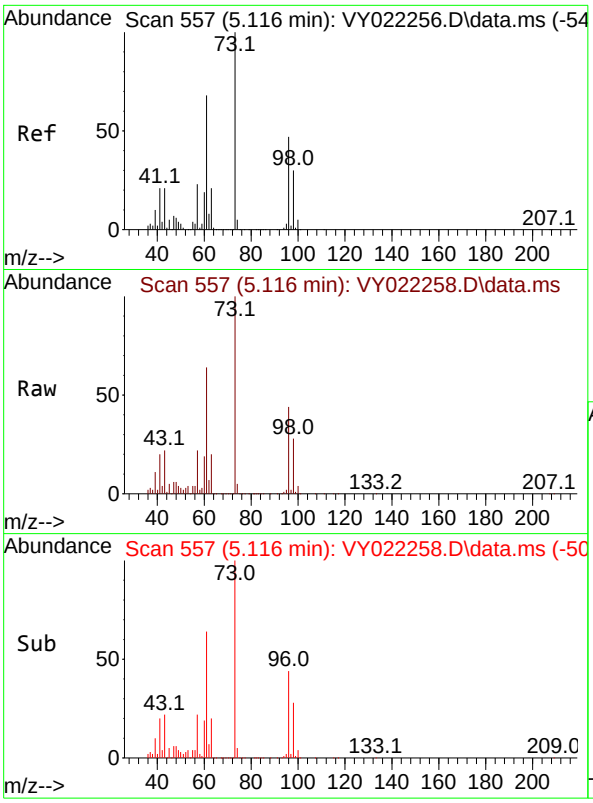


#18
Methyl Acetate
Concen: 166.915 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 43 Resp: 282084

Ion	Ratio	Lower	Upper
43	100		
74	23.4	18.2	27.4



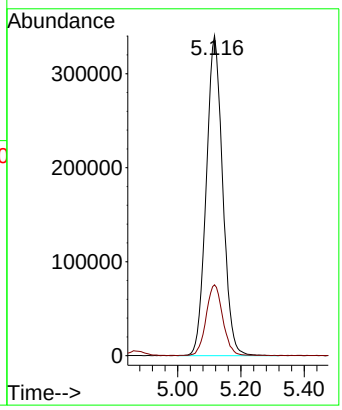


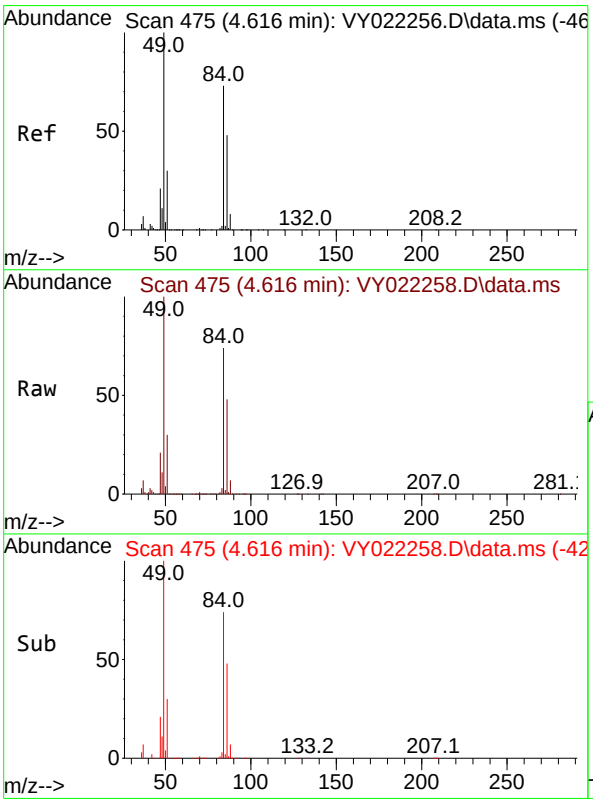
#19
Methyl tert-butyl Ether
Concen: 153.279 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 73 Resp: 1225258

Ion	Ratio	Lower	Upper
73	100		
57	22.1	18.6	28.0

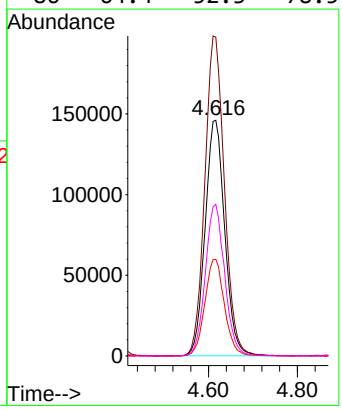


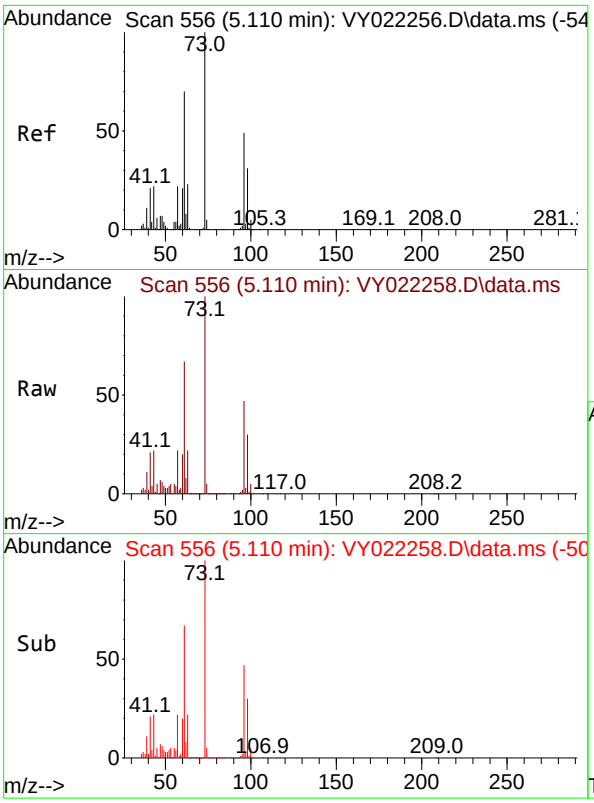


#20
Methylene Chloride
Concen: 125.059 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 84 Resp: 448817

Ion	Ratio	Lower	Upper
84	100		
49	135.3	109.6	164.4
51	40.9	32.4	48.6
86	64.4	52.3	78.5



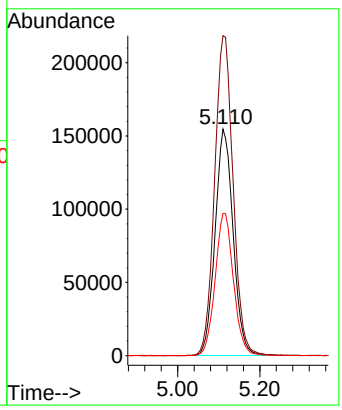


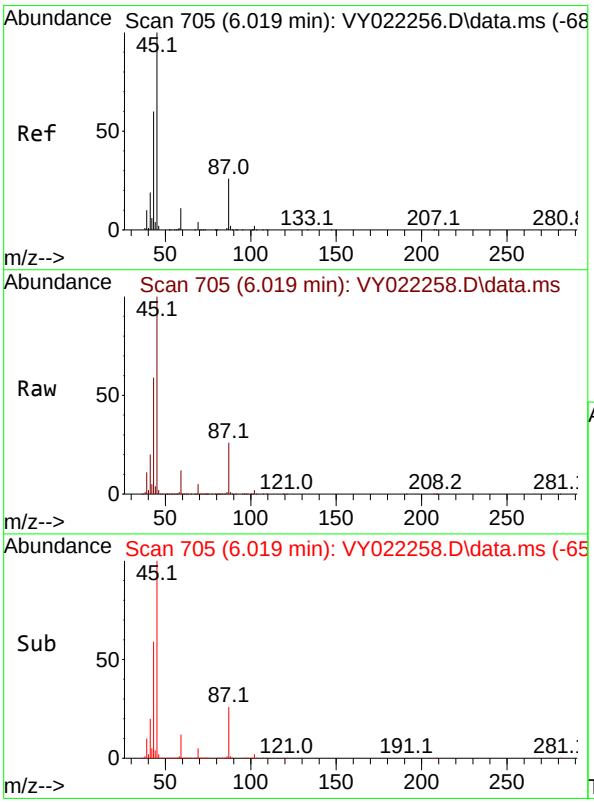
#21
trans-1,2-Dichloroethene
Concen: 147.547 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 96 Resp: 472143

Ion	Ratio	Lower	Upper
96	100		
61	141.3	113.4	170.0
98	62.8	50.9	76.3

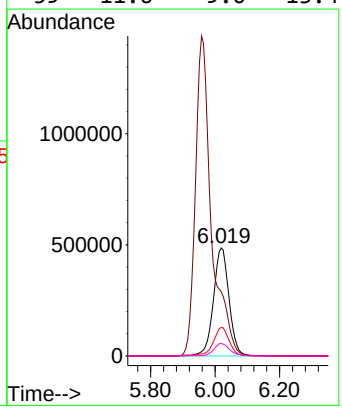


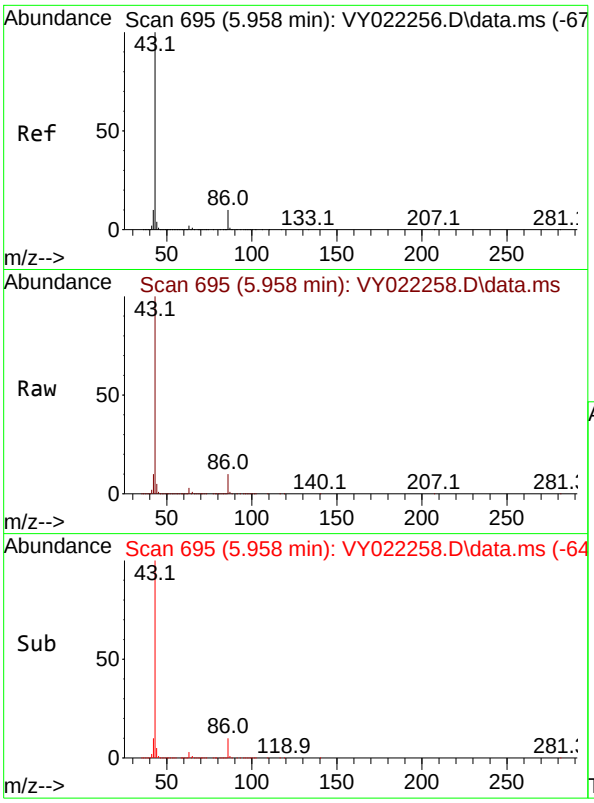


#22
Diisopropyl ether
Concen: 151.557 ug/l
RT: 6.019 min Scan# 705
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 45 Resp: 1626927

Ion	Ratio	Lower	Upper
45	100		
43	59.2	48.2	72.2
87	26.4	21.4	32.0
59	11.6	9.0	13.4



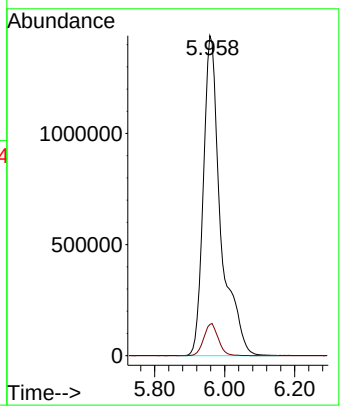


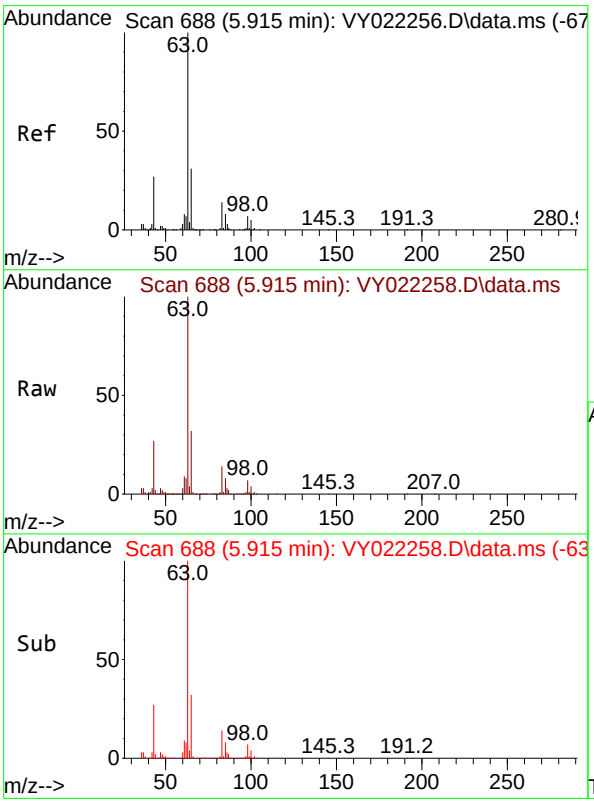
#23
Vinyl Acetate
Concen: 763.831 ug/l
RT: 5.958 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 4953644

Ion	Ratio	Lower	Upper
43	100		
86	9.7	7.8	11.8

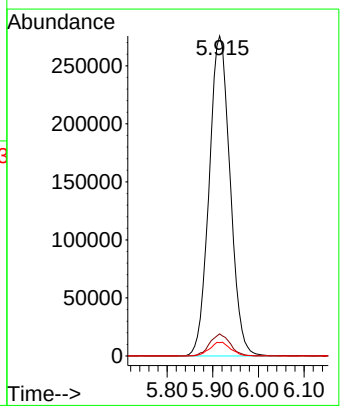


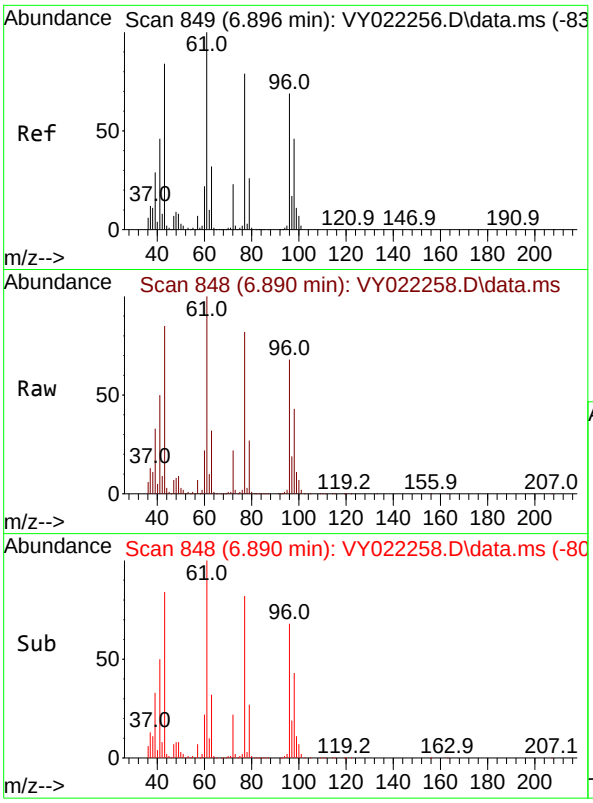


#24
1,1-Dichloroethane
Concen: 146.697 ug/l
RT: 5.915 min Scan# 688
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 63 Resp: 879785

Ion	Ratio	Lower	Upper
63	100		
98	6.9	3.5	10.5
100	4.2	2.4	7.2



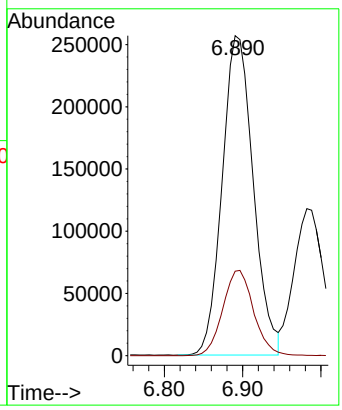


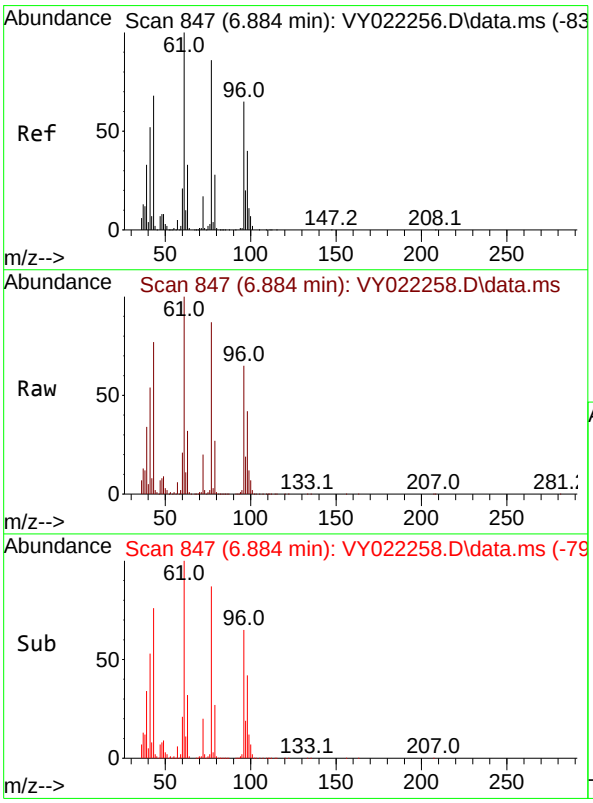
#25
2-Butanone
Concen: 762.091 ug/l
RT: 6.890 min Scan# 84
Delta R.T. -0.006 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 708010

Ion	Ratio	Lower	Upper
43	100		
72	26.4	22.1	33.1

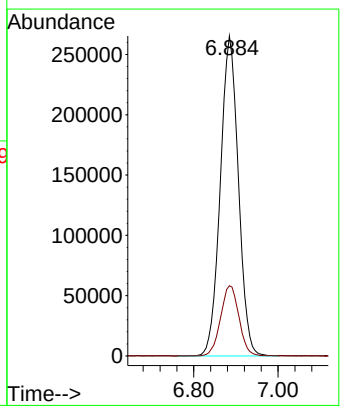


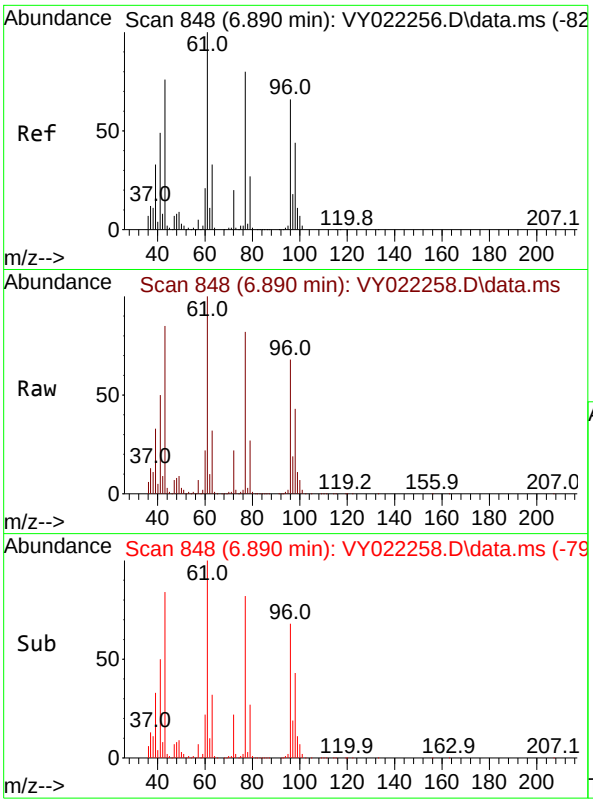


#26
2,2-Dichloropropane
Concen: 147.575 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 77 Resp: 787195

Ion	Ratio	Lower	Upper
77	100		
97	22.3	11.2	33.5



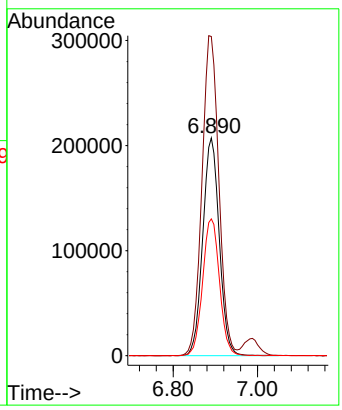


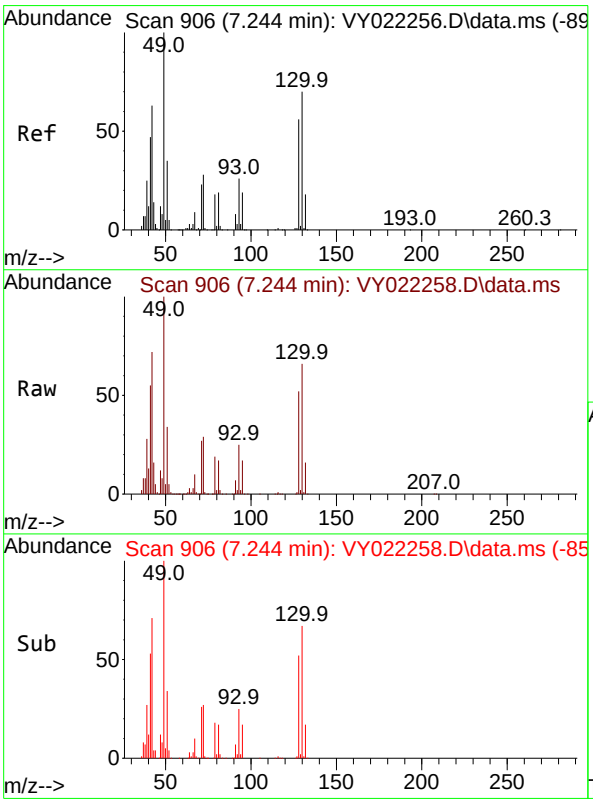
#27
cis-1,2-Dichloroethene
Concen: 152.601 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 96 Resp: 563503

Ion	Ratio	Lower	Upper
96	100		
61	151.2	0.0	302.6
98	64.4	0.0	128.8

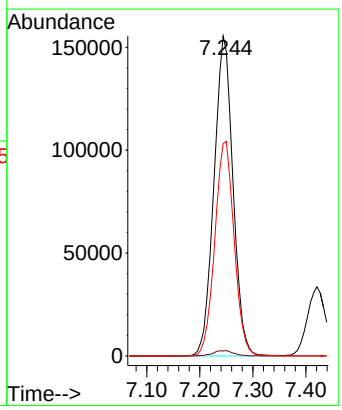


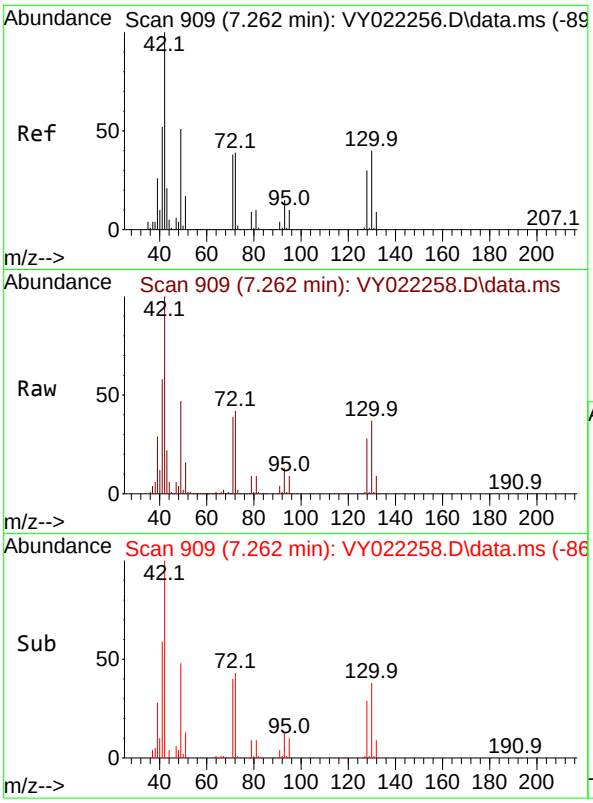


#28
Bromochloromethane
Concen: 151.369 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 49 Resp: 387221

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	3.6
130	68.2	54.7	82.1



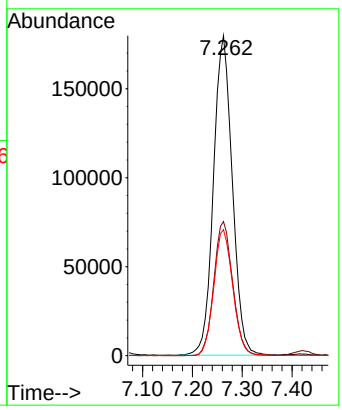


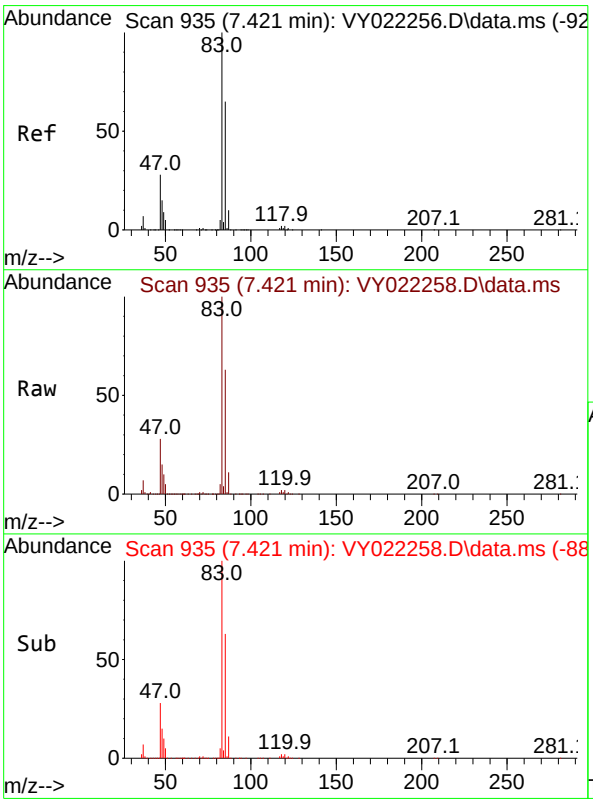
#29
Tetrahydrofuran
Concen: 790.072 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 42 Resp: 472224

Ion	Ratio	Lower	Upper
42	100		
72	42.0	33.8	50.6
71	39.6	31.5	47.3

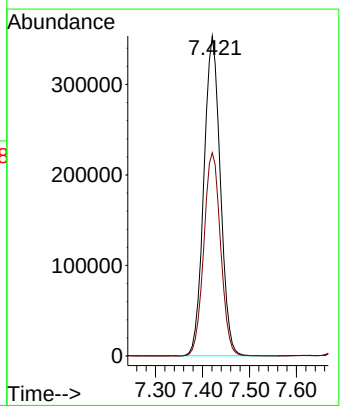


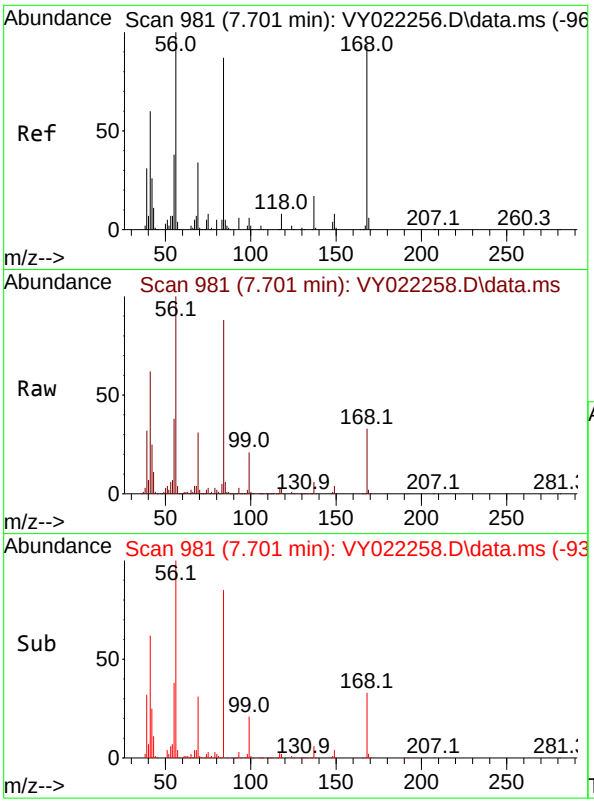


#30
Chloroform
Concen: 149.381 ug/l
RT: 7.421 min Scan# 935
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 83 Resp: 859317

Ion	Ratio	Lower	Upper
83	100		
85	63.5	51.8	77.8



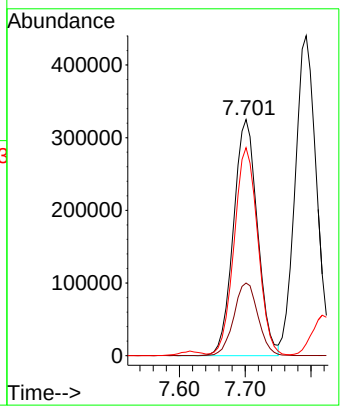


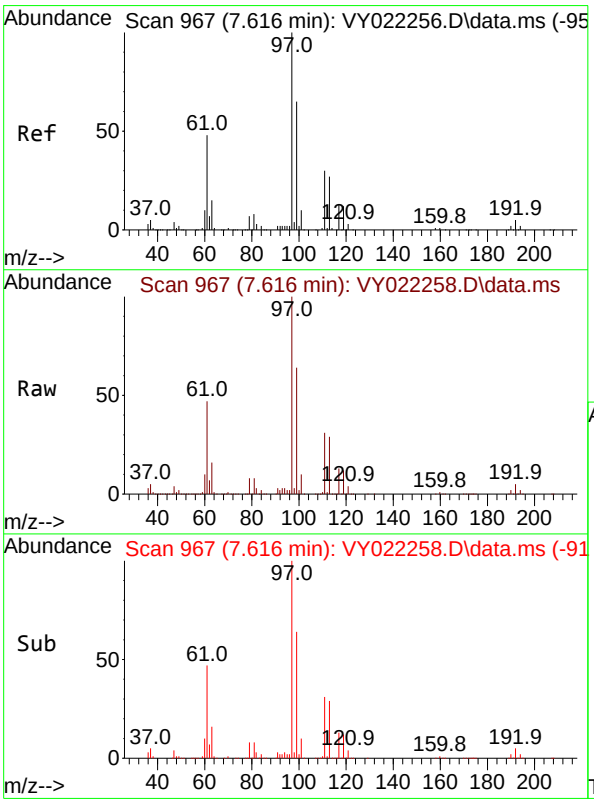
#31
Cyclohexane
Concen: 137.144 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 56 Resp: 821784

Ion	Ratio	Lower	Upper
56	100		
69	30.7	27.4	41.2
84	87.3	70.0	105.0

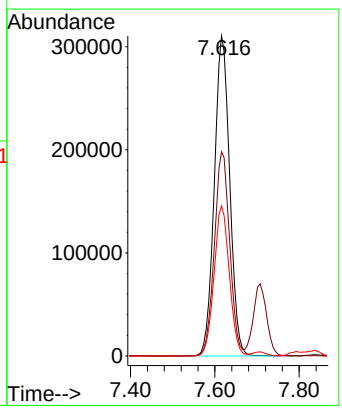


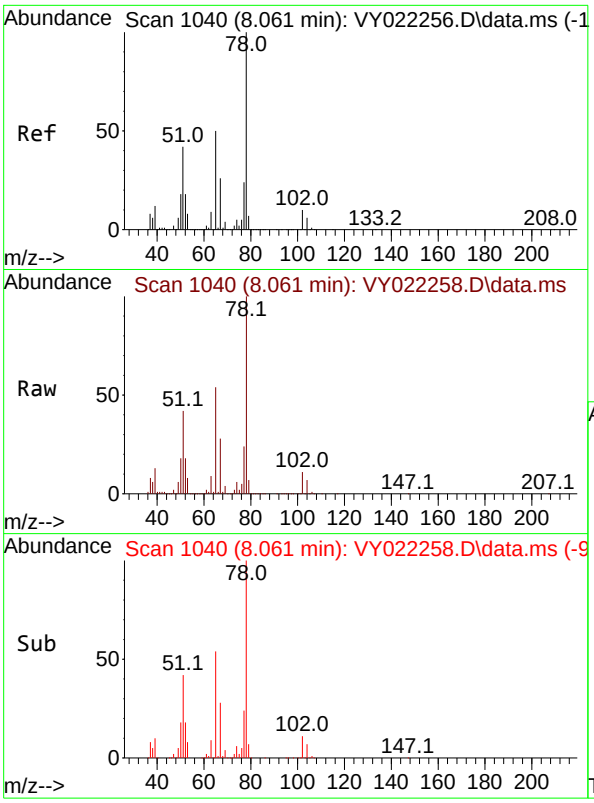


#32
1,1,1-Trichloroethane
Concen: 148.554 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 97 Resp: 784014

Ion	Ratio	Lower	Upper
97	100		
99	64.0	51.4	77.0
61	46.7	38.1	57.1



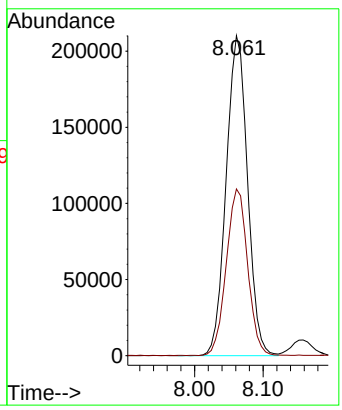


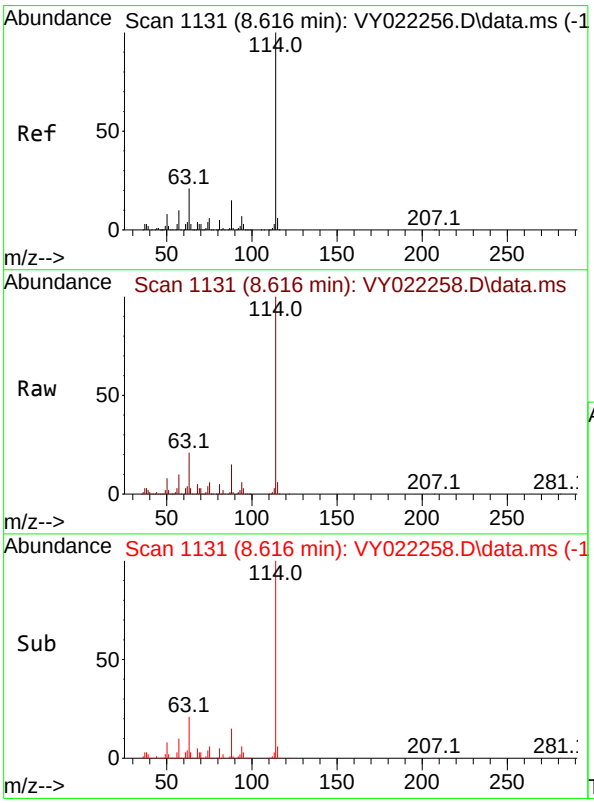
#33
1,2-Dichloroethane-d4
Concen: 153.739 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 65 Resp: 455385

Ion	Ratio	Lower	Upper
65	100		
67	52.0	0.0	104.6

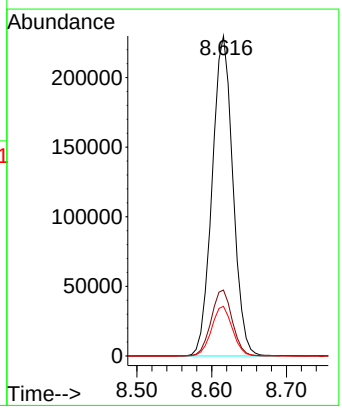


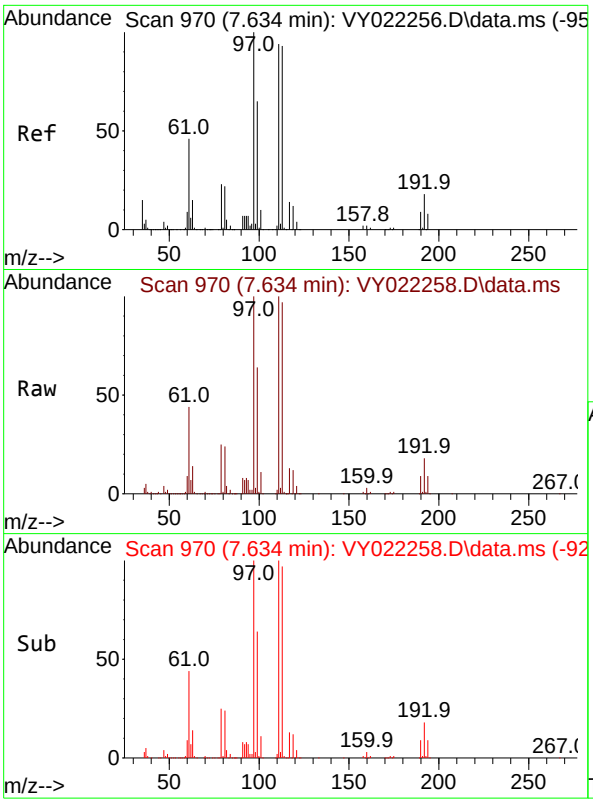


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion:114 Resp: 442917

Ion	Ratio	Lower	Upper
114	100		
63	20.6	0.0	41.0
88	15.5	0.0	29.4



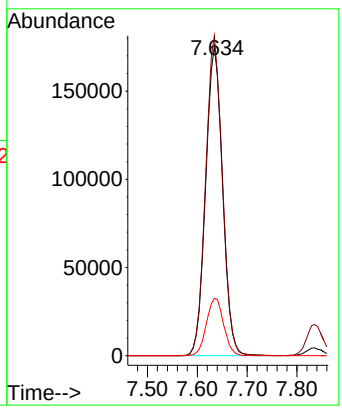


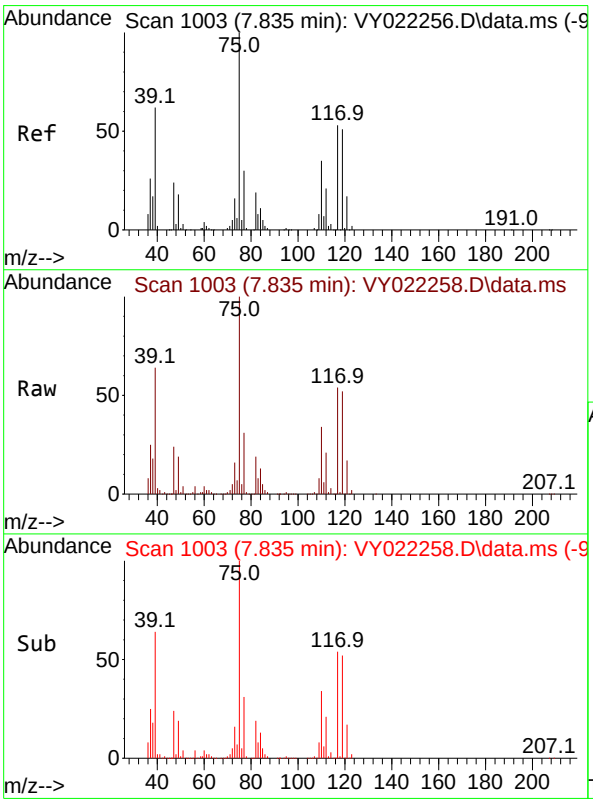
#35
Dibromofluoromethane
Concen: 155.969 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion:113 Resp: 412318

Ion	Ratio	Lower	Upper
113	100		
111	103.2	82.6	123.8
192	18.9	15.2	22.8

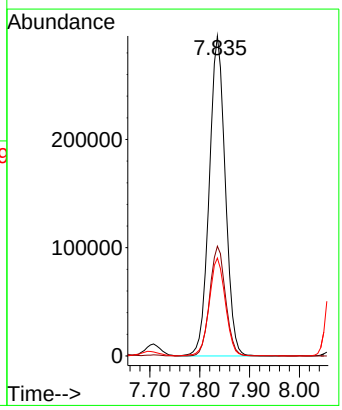


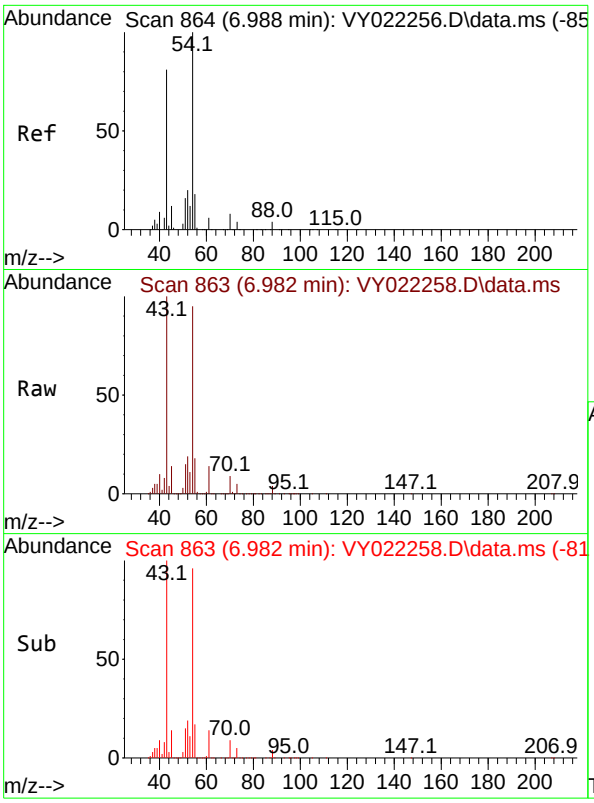


#36
1,1-Dichloropropene
Concen: 151.316 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 75 Resp: 658871

Ion	Ratio	Lower	Upper
75	100		
110	33.9	16.6	49.8
77	30.7	24.6	37.0



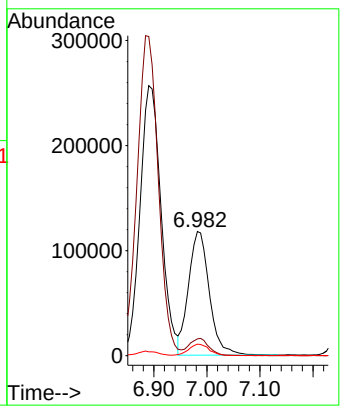


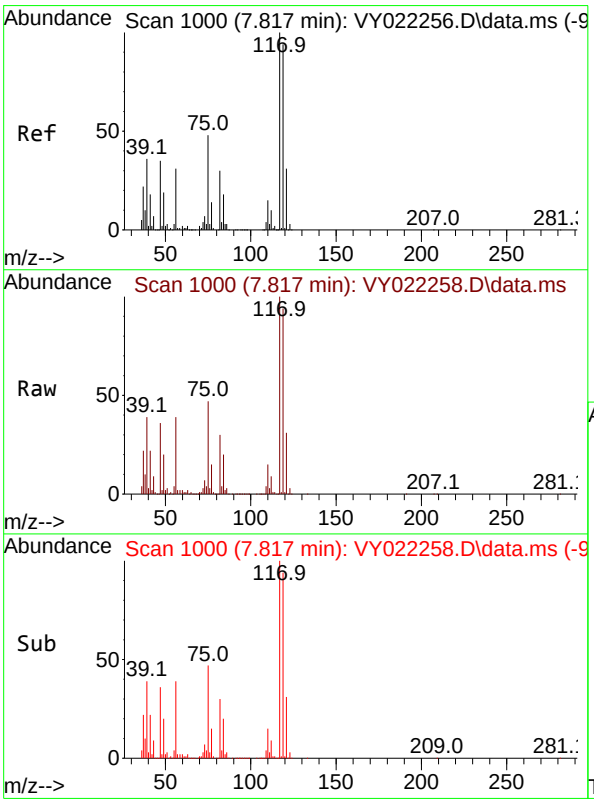
#37
Ethyl Acetate
Concen: 153.067 ug/l
RT: 6.982 min Scan# 8
Delta R.T. -0.006 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 320686

Ion	Ratio	Lower	Upper
43	100		
61	13.3	10.2	15.2
70	9.3	7.6	11.4

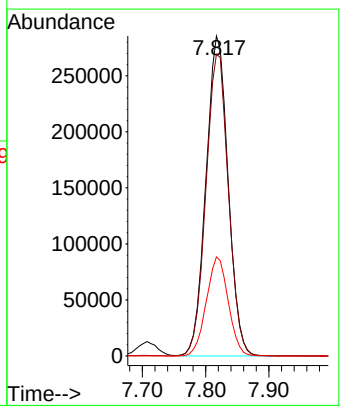


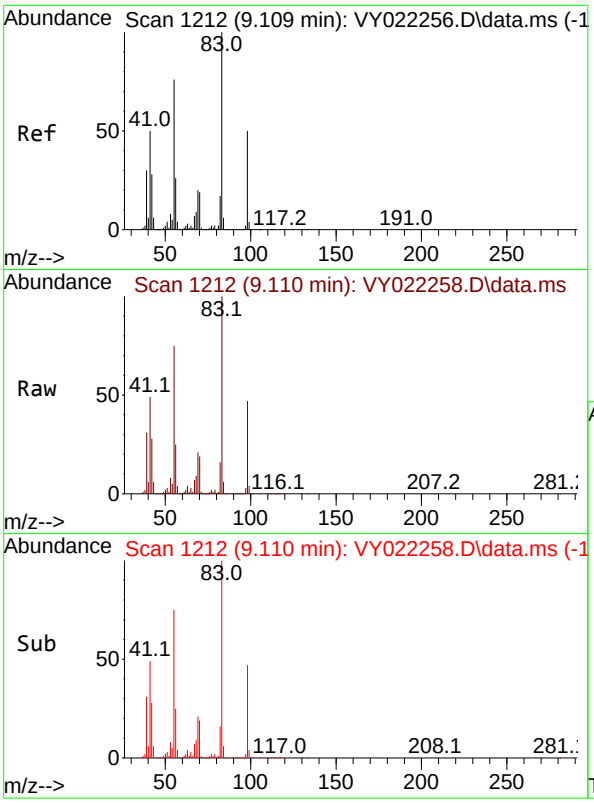


#38
Carbon Tetrachloride
Concen: 154.450 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion:117 Resp: 696139

Ion	Ratio	Lower	Upper
117	100		
119	94.3	75.3	112.9
121	30.9	24.7	37.1



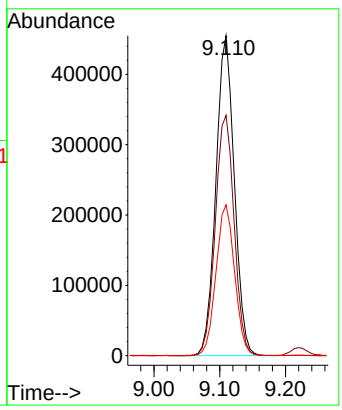


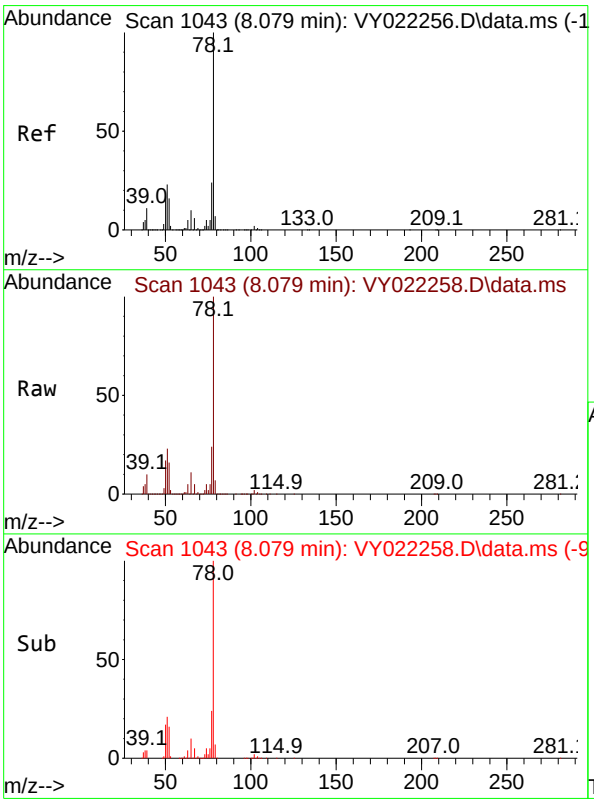
#39
Methylcyclohexane
Concen: 151.510 ug/l
RT: 9.110 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 83 Resp: 886329

Ion	Ratio	Lower	Upper
83	100		
55	75.1	60.6	90.8
98	47.2	40.0	60.0

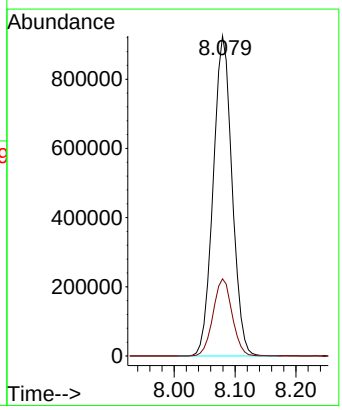


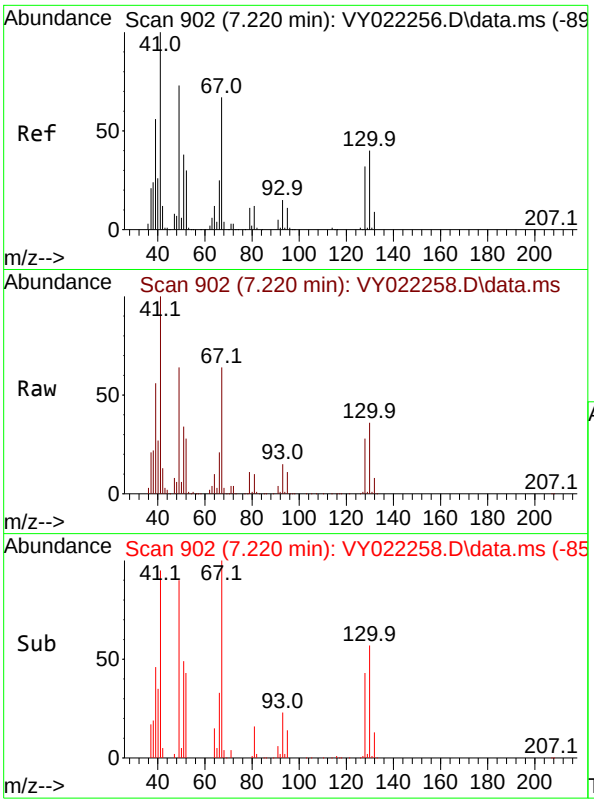


#40
Benzene
Concen: 153.973 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 78 Resp: 1987535

Ion	Ratio	Lower	Upper
78	100		
77	24.1	18.9	28.3



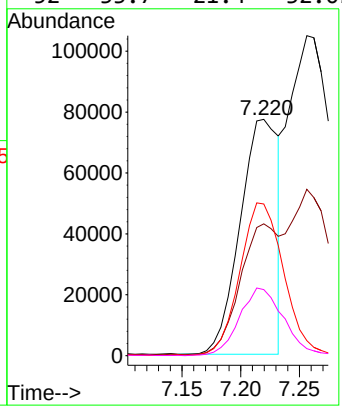


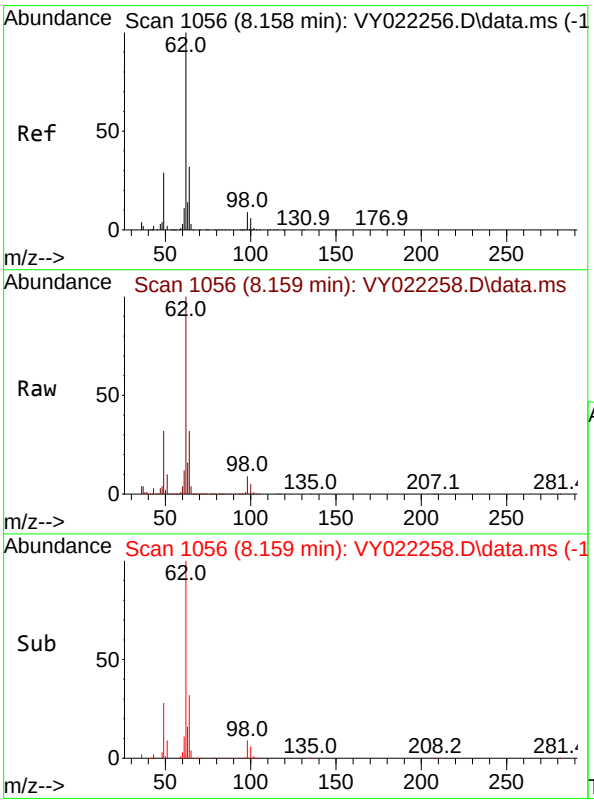
#41
Methacrylonitrile
Concen: 114.006 ug/l
RT: 7.220 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 41 Resp: 174771

Ion	Ratio	Lower	Upper
41	100		
39	55.2	39.1	58.7
67	74.7	47.1	70.7#
52	33.7	21.4	32.0#

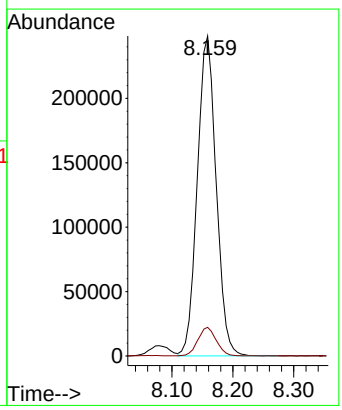


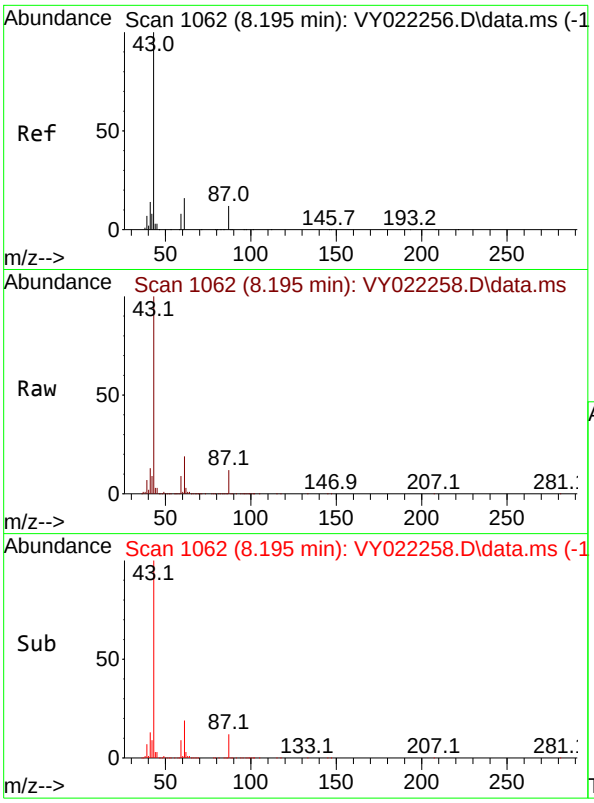


#42
1,2-Dichloroethane
Concen: 153.124 ug/l
RT: 8.159 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 62 Resp: 534517

Ion	Ratio	Lower	Upper
62	100		
98	8.7	0.0	18.4



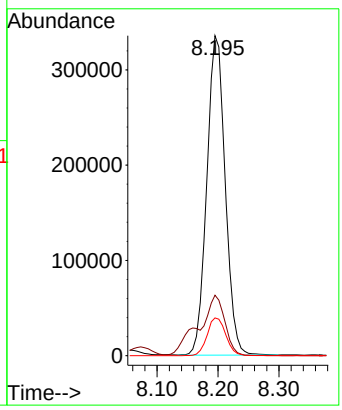


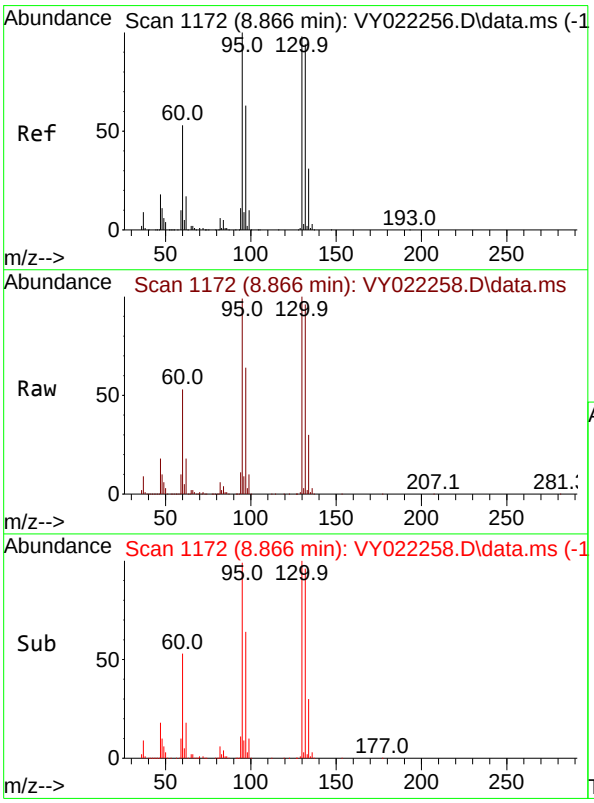
#43
Isopropyl Acetate
Concen: 154.159 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 704366

Ion	Ratio	Lower	Upper
43	100		
61	27.0	15.1	22.7#
87	12.0	9.7	14.5

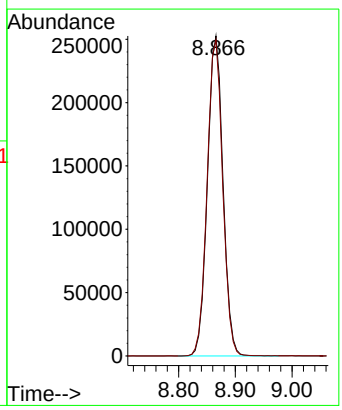


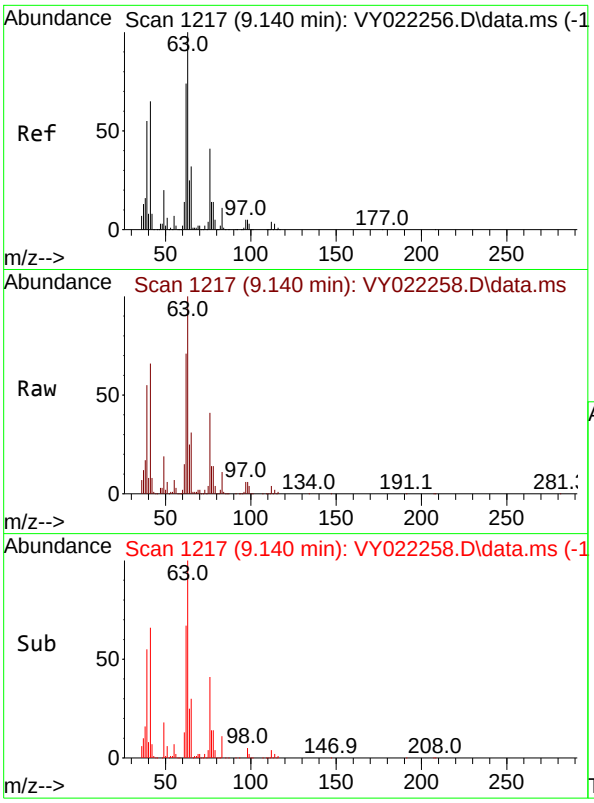


#44
Trichloroethene
Concen: 150.171 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion:130 Resp: 481990

Ion	Ratio	Lower	Upper
130	100		
95	98.7	0.0	204.8



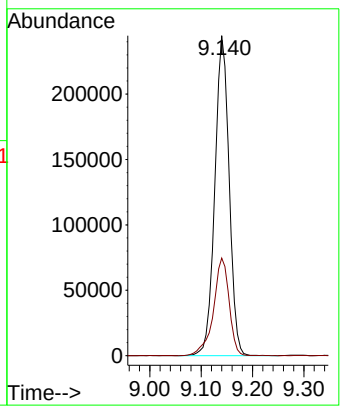


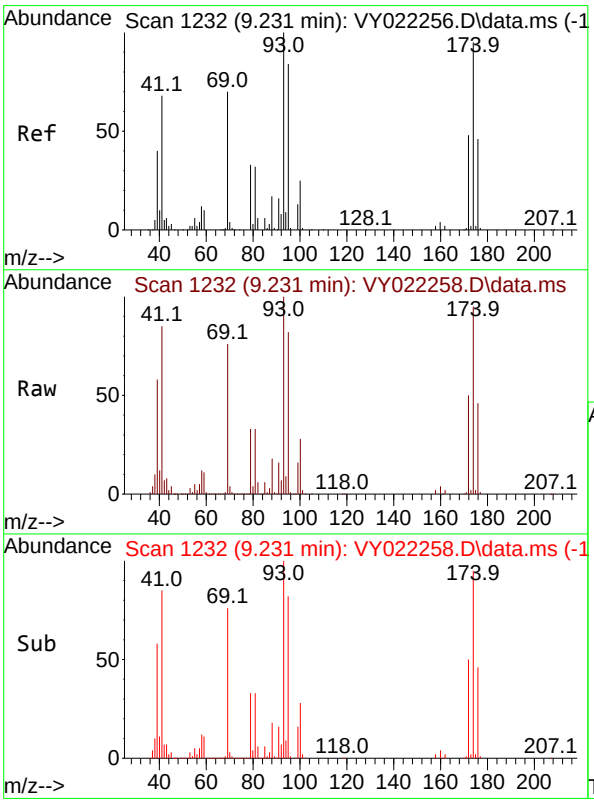
#45
1,2-Dichloropropane
Concen: 151.736 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 63 Resp: 472217

Ion	Ratio	Lower	Upper
63	100		
65	30.5	25.7	38.5

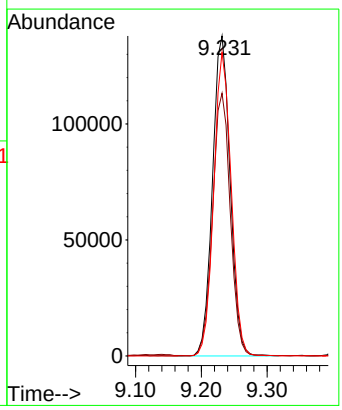


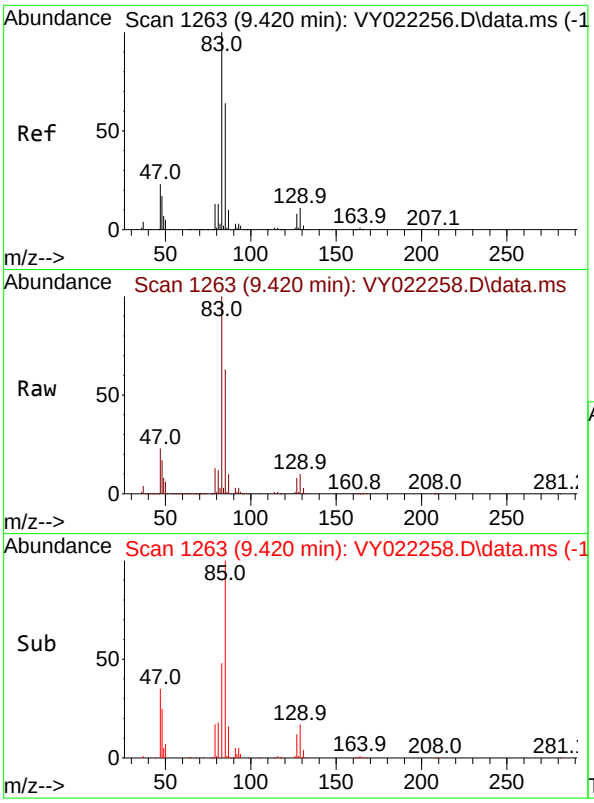


#46
Dibromomethane
Concen: 153.757 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 93 Resp: 258087

Ion	Ratio	Lower	Upper
93	100		
95	82.1	65.2	97.8
174	93.5	74.3	111.5



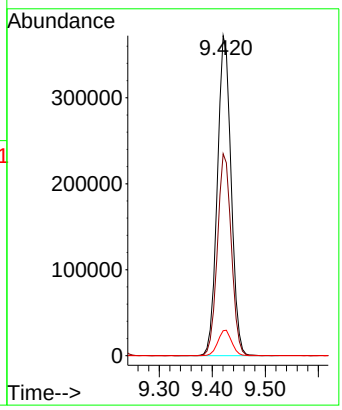


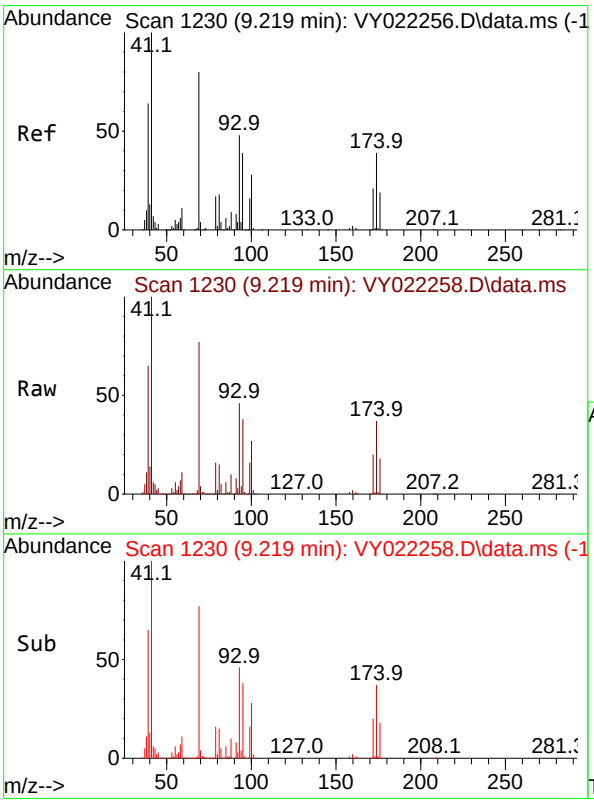
#47
Bromodichloromethane
Concen: 153.824 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 83 Resp: 669834

Ion	Ratio	Lower	Upper
83	100		
85	63.1	51.1	76.7
127	7.8	6.6	10.0

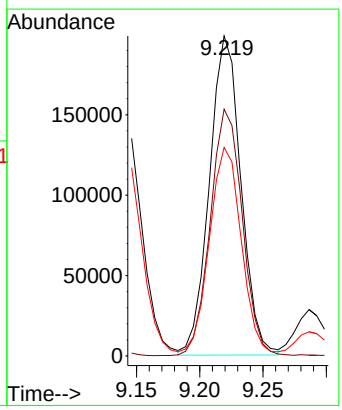


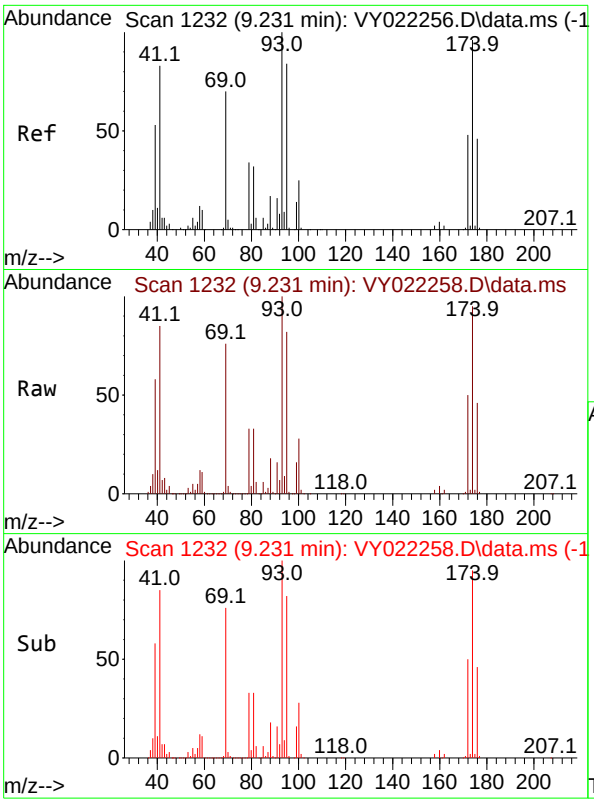


#48
Methyl methacrylate
Concen: 161.060 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 41 Resp: 344147

Ion	Ratio	Lower	Upper
41	100		
69	78.5	63.5	95.3
39	64.1	50.8	76.2



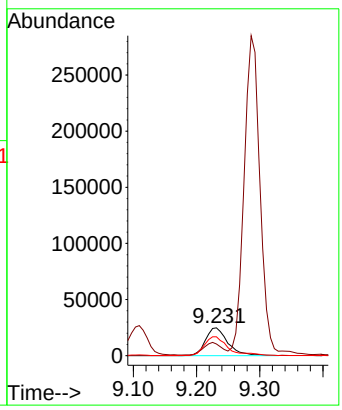


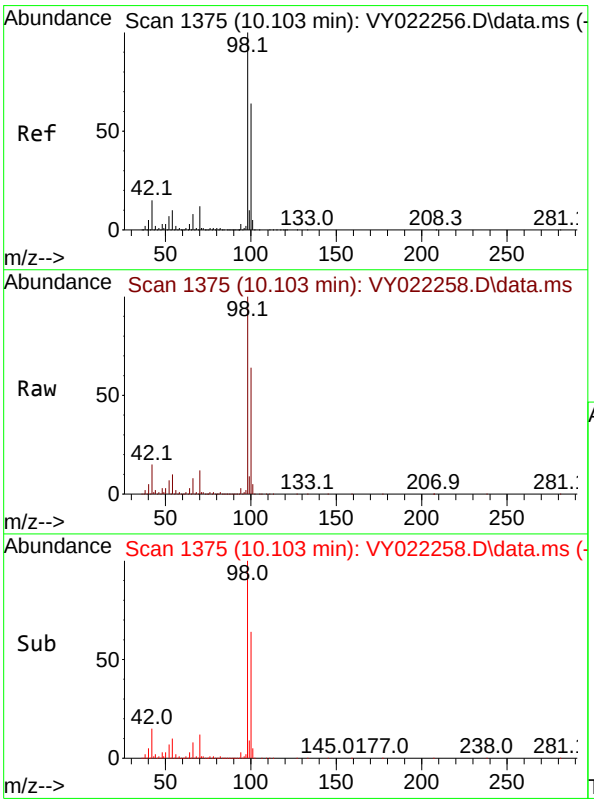
#49
1,4-Dioxane
Concen: 3217.888 ug/l
RT: 9.231 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 88 Resp: 61019

Ion	Ratio	Lower	Upper
88	100		
43	36.9	28.5	42.7
58	71.3	61.4	92.2

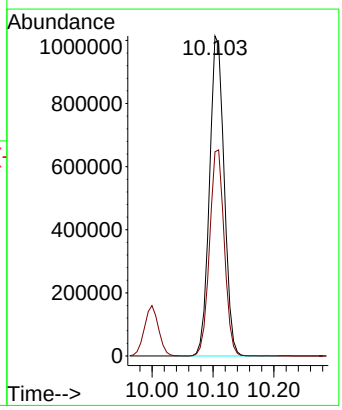


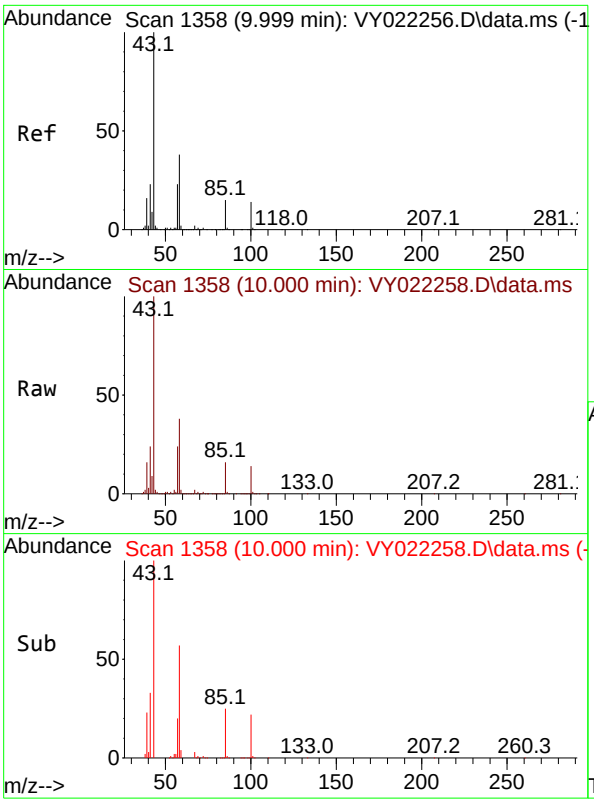


#50
Toluene-d8
Concen: 156.065 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 98 Resp: 1689714

Ion	Ratio	Lower	Upper
98	100		
100	64.7	51.8	77.8



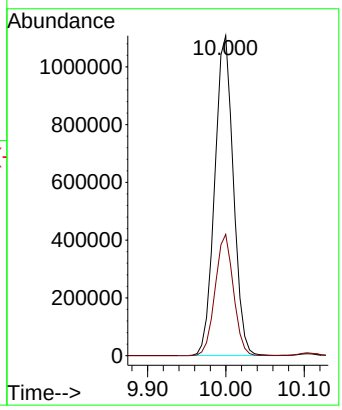


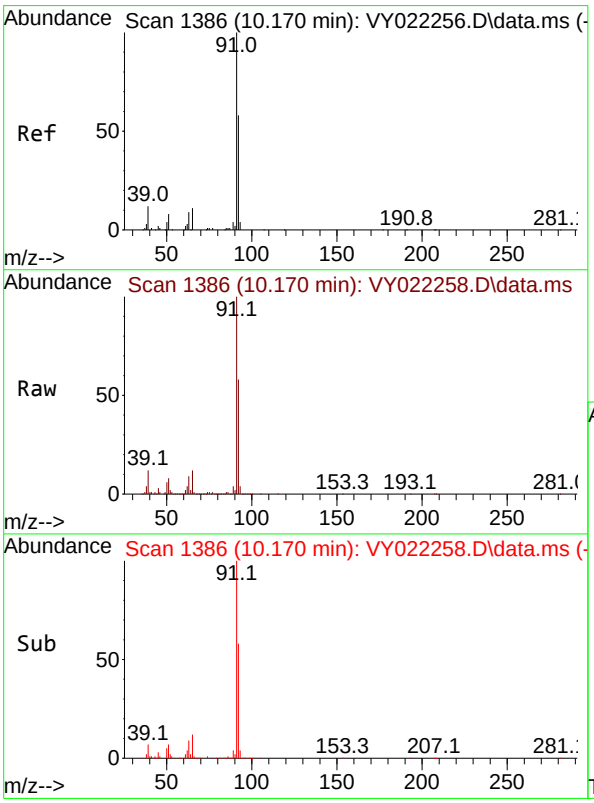
#51
4-Methyl-2-Pentanone
Concen: 815.822 ug/l
RT: 10.000 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 1829015

Ion	Ratio	Lower	Upper
43	100		
58	37.3	29.4	44.2

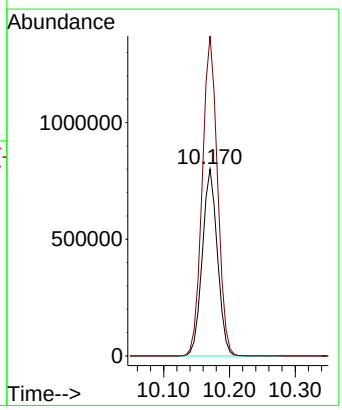


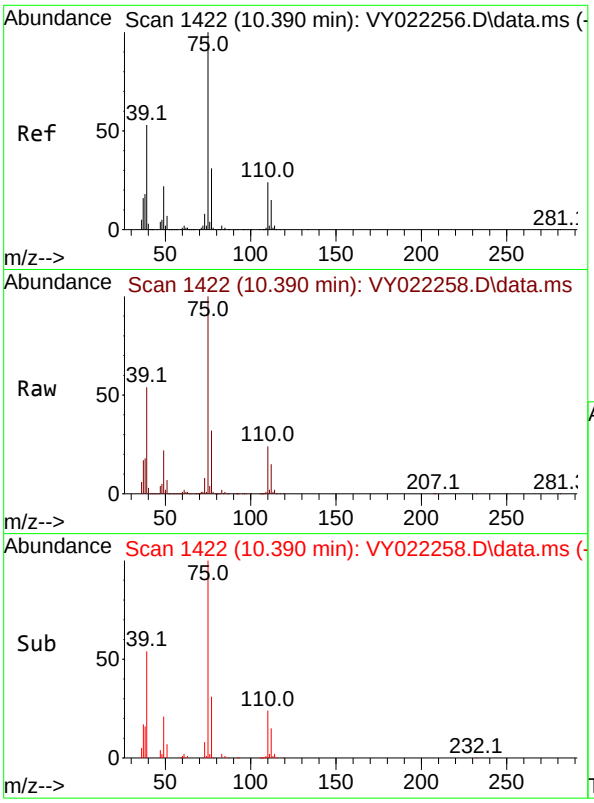


#52
Toluene
Concen: 156.216 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 92 Resp: 1276917

Ion	Ratio	Lower	Upper
92	100		
91	173.1	139.1	208.7



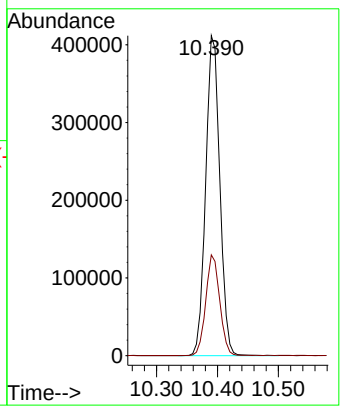


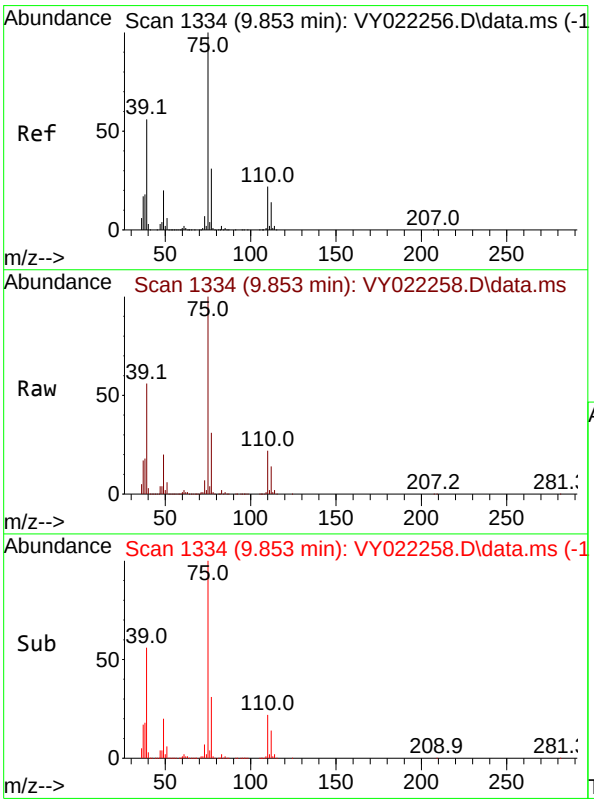
#53
t-1,3-Dichloropropene
Concen: 156.134 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 75 Resp: 663513

Ion	Ratio	Lower	Upper
75	100		
77	31.5	25.0	37.6

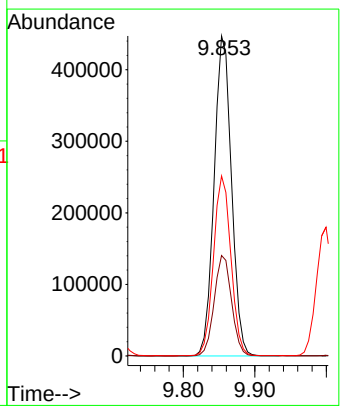


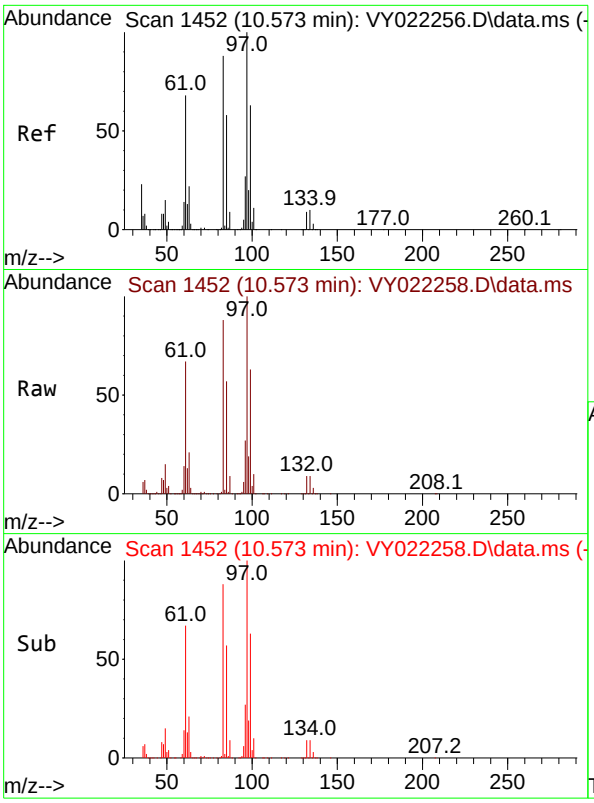


#54
cis-1,3-Dichloropropene
Concen: 154.963 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 75 Resp: 754493

Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.1	37.7
39	56.2	44.5	66.7



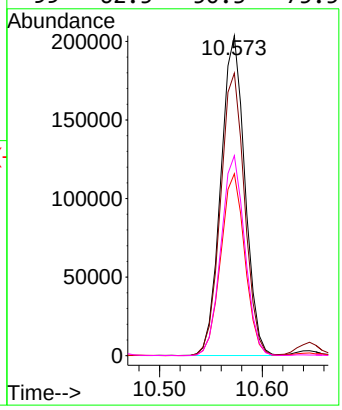


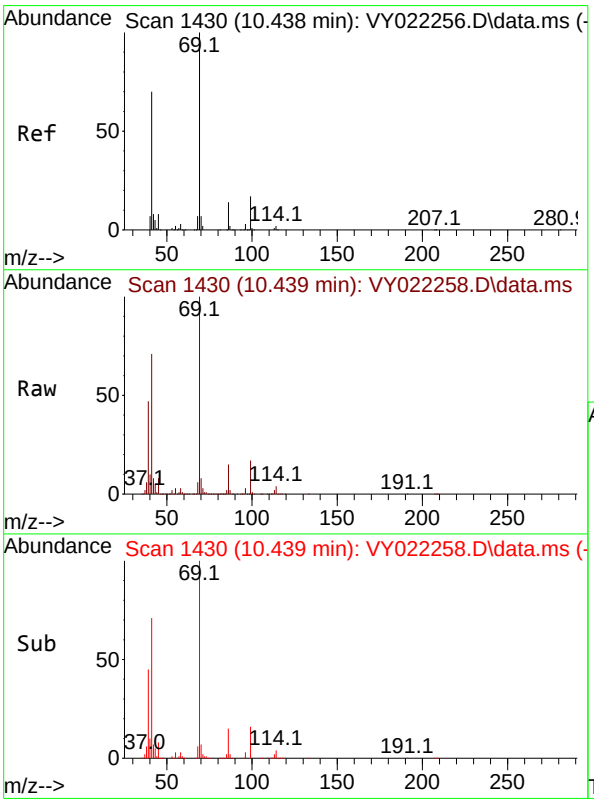
#55
1,1,2-Trichloroethane
Concen: 153.863 ug/l
RT: 10.573 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 97 Resp: 330716

Ion	Ratio	Lower	Upper
97	100		
83	88.2	70.3	105.5
85	56.8	46.2	69.4
99	62.5	50.3	75.5

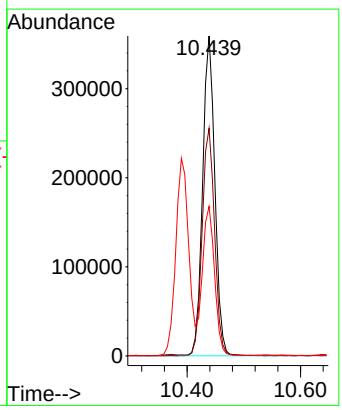


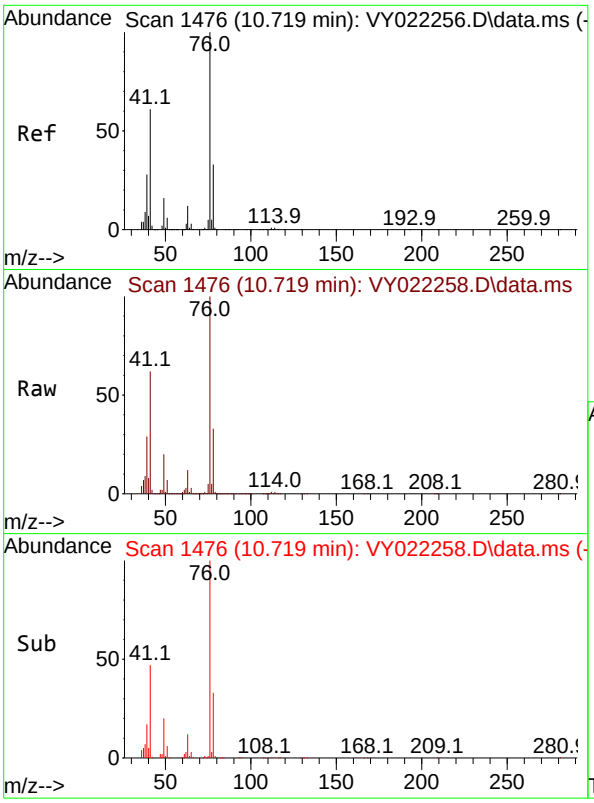


#56
Ethyl methacrylate
Concen: 160.058 ug/l
RT: 10.439 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 69 Resp: 535897

Ion	Ratio	Lower	Upper
69	100		
41	72.0	56.5	84.7
39	46.8	37.1	55.7



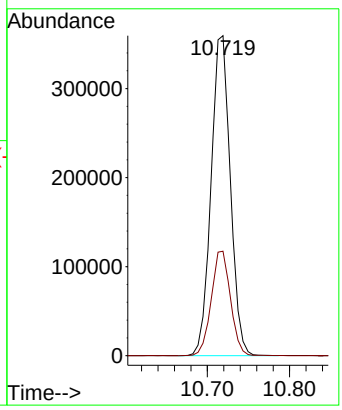


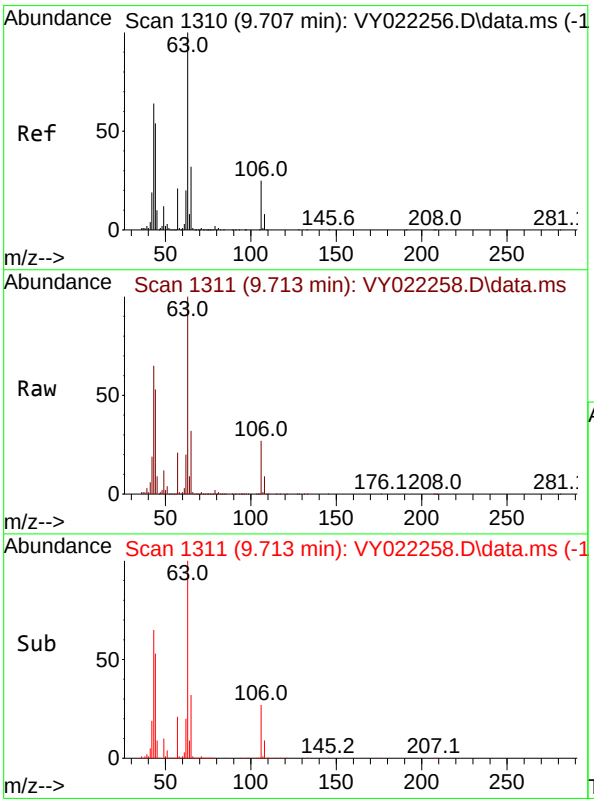
#57
1,3-Dichloropropane
Concen: 152.987 ug/l
RT: 10.719 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 76 Resp: 584253

Ion	Ratio	Lower	Upper
76	100		
78	32.7	25.8	38.8

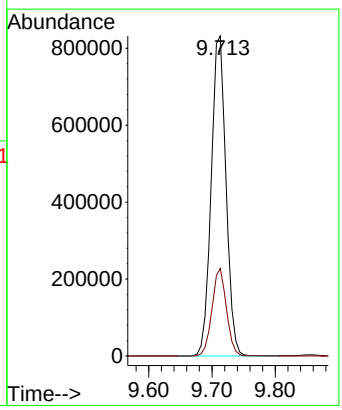


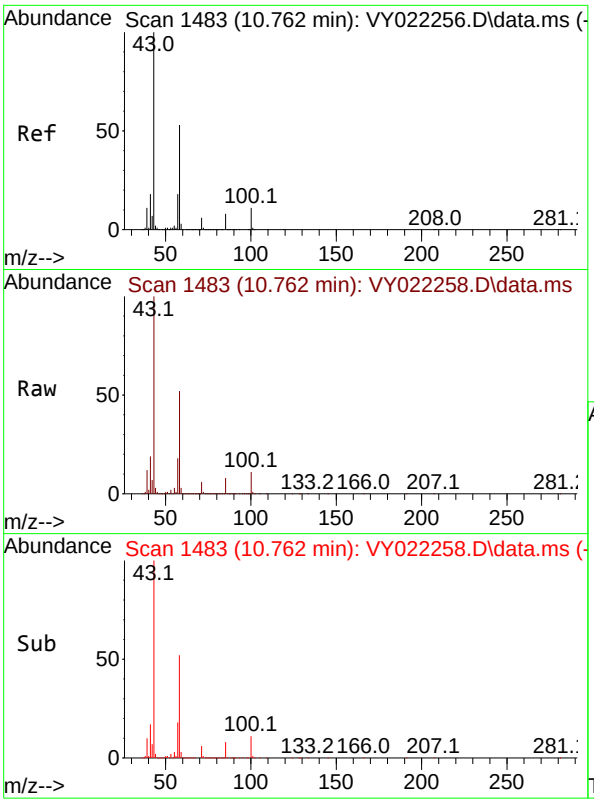


#58
2-Chloroethyl Vinyl ether
Concen: 898.675 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. 0.006 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 63 Resp: 1350536

Ion	Ratio	Lower	Upper
63	100		
106	26.6	21.0	31.4



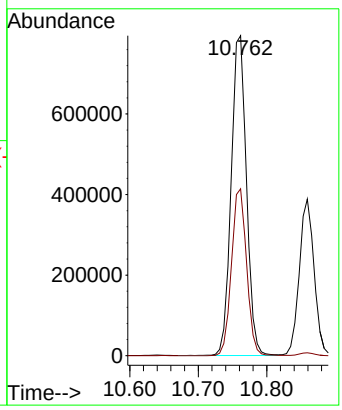


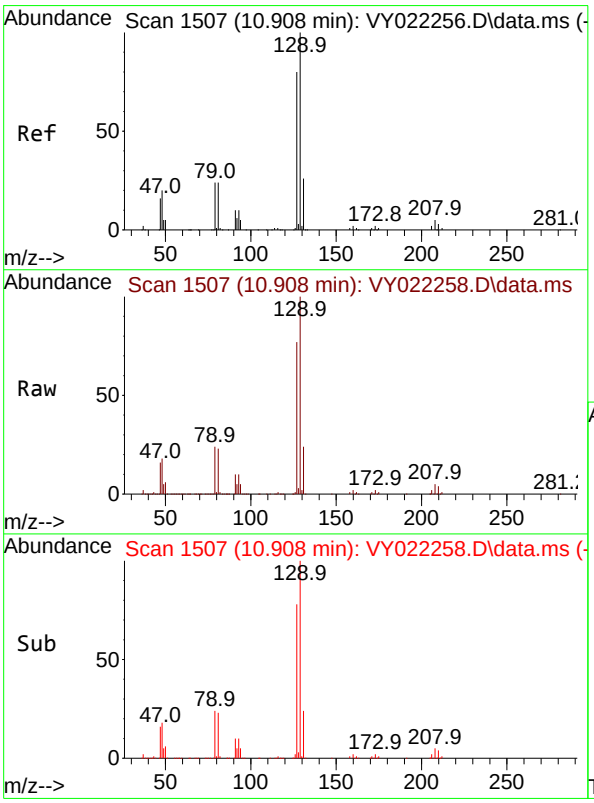
#59
2-Hexanone
Concen: 816.860 ug/l
RT: 10.762 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 1227881

Ion	Ratio	Lower	Upper
43	100		
58	51.7	26.1	78.3

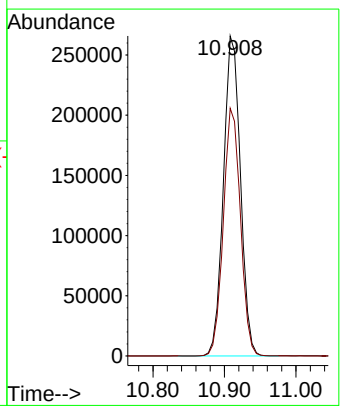


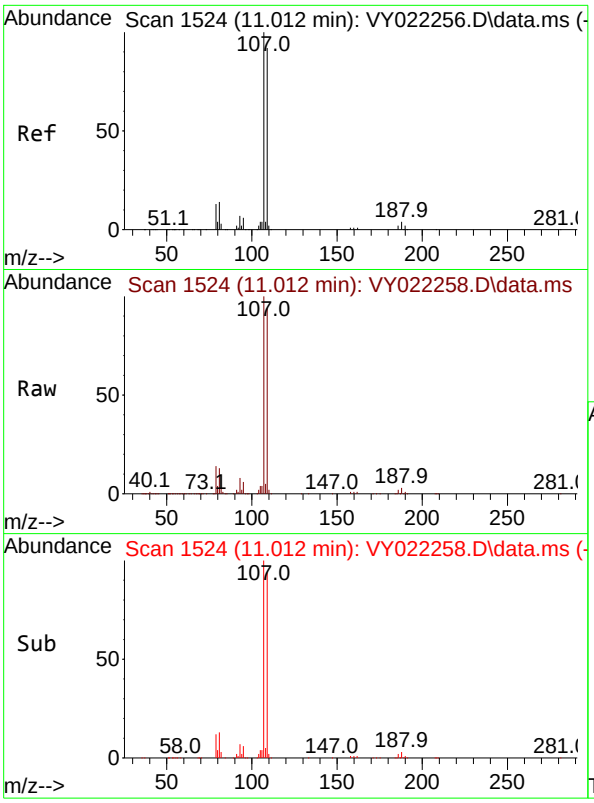


#60
Dibromochloromethane
Concen: 157.237 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion:129 Resp: 438666

Ion	Ratio	Lower	Upper
129	100		
127	77.9	38.6	115.7



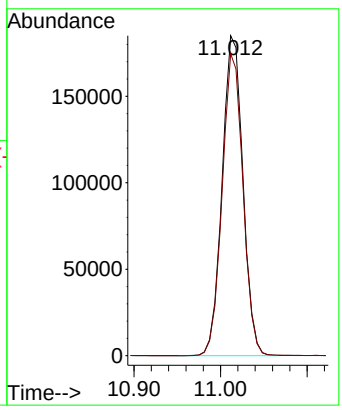


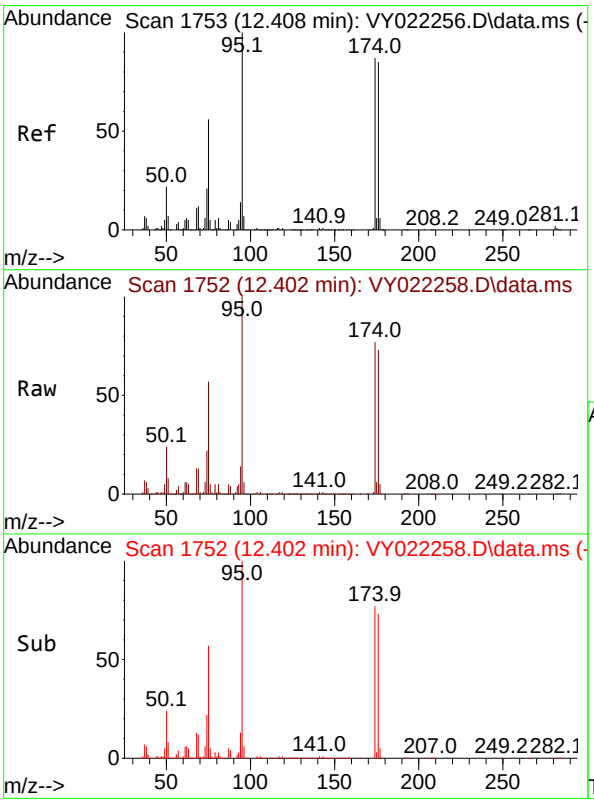
#61
1,2-Dibromoethane
Concen: 154.008 ug/l
RT: 11.012 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion:107 Resp: 308529

Ion	Ratio	Lower	Upper
107	100		
109	94.4	74.6	111.8

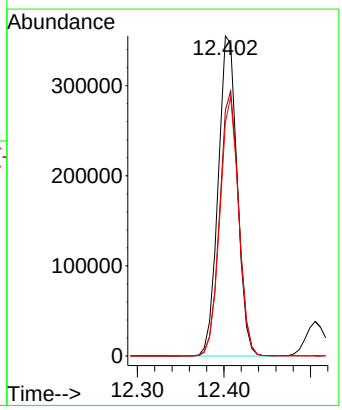


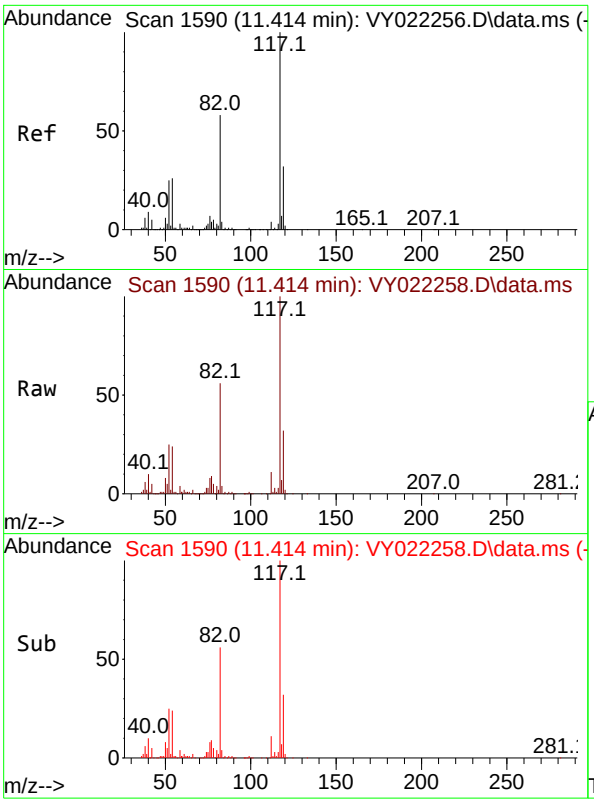


#62
4-Bromofluorobenzene
Concen: 157.751 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 95 Resp: 541367

Ion	Ratio	Lower	Upper
95	100		
174	82.5	0.0	166.8
176	79.8	0.0	160.8



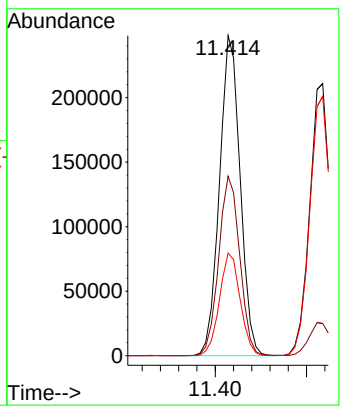


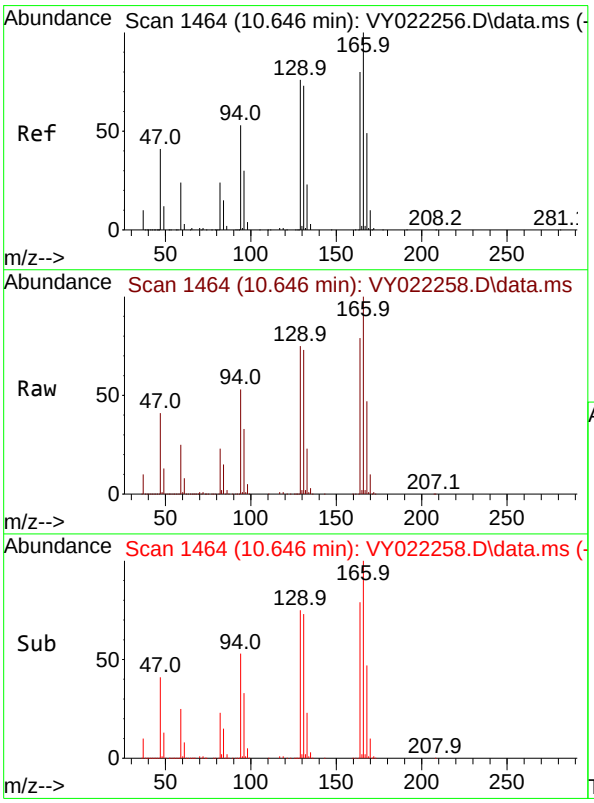
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion:117 Resp: 389769

Ion	Ratio	Lower	Upper
117	100		
82	56.0	46.6	70.0
119	32.0	25.8	38.6

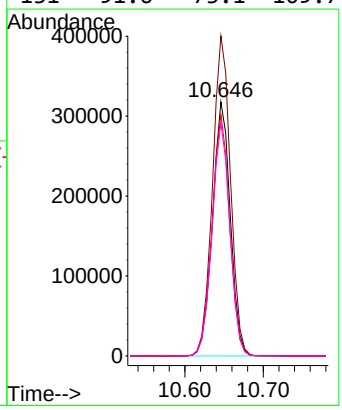


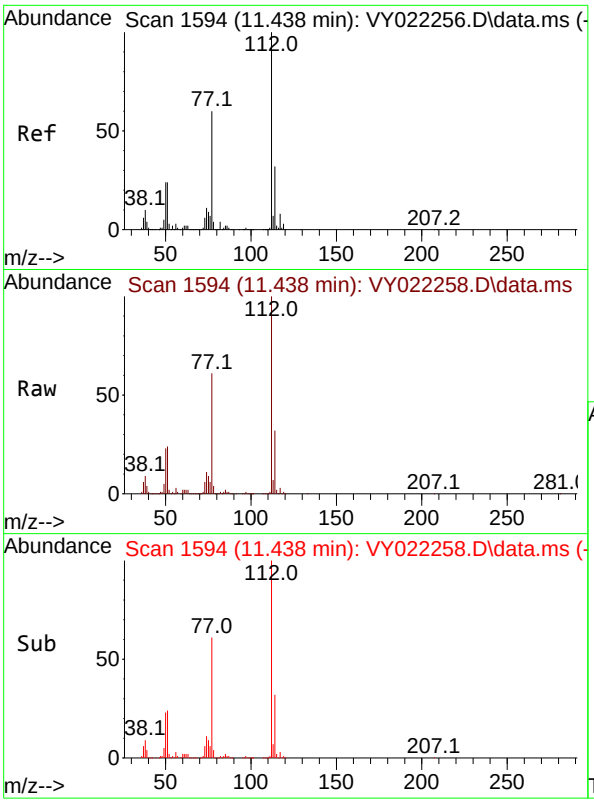


#64
Tetrachloroethene
Concen: 139.237 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion:164 Resp: 501627

Ion	Ratio	Lower	Upper
164	100		
166	125.9	100.4	150.6
129	94.9	76.4	114.6
131	91.6	73.1	109.7



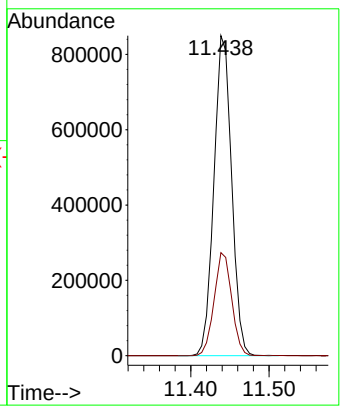


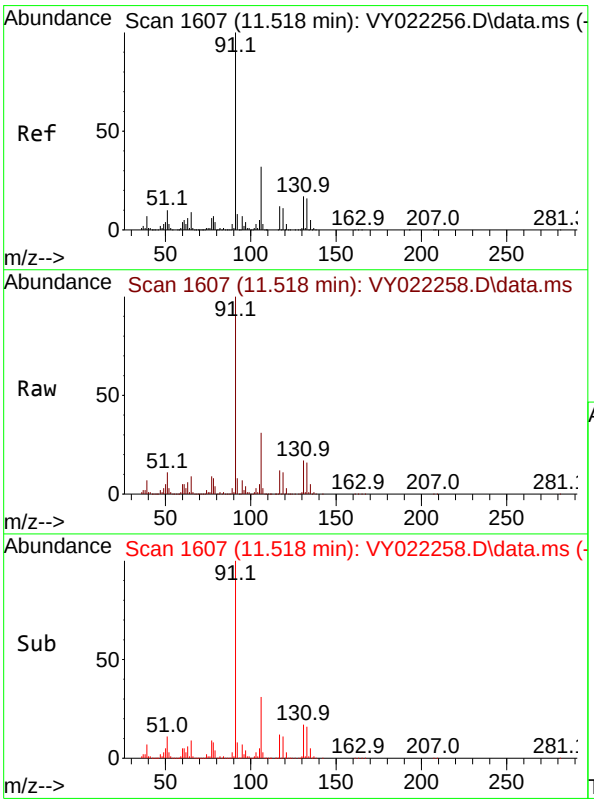
#65
Chlorobenzene
Concen: 151.997 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion:112 Resp: 1336594

Ion	Ratio	Lower	Upper
112	100		
114	32.2	25.8	38.6

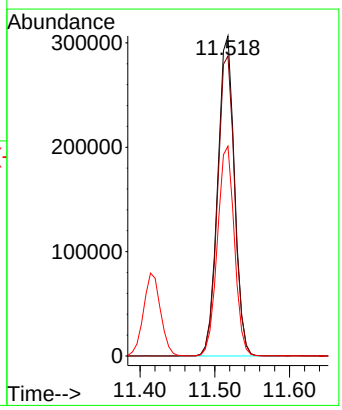


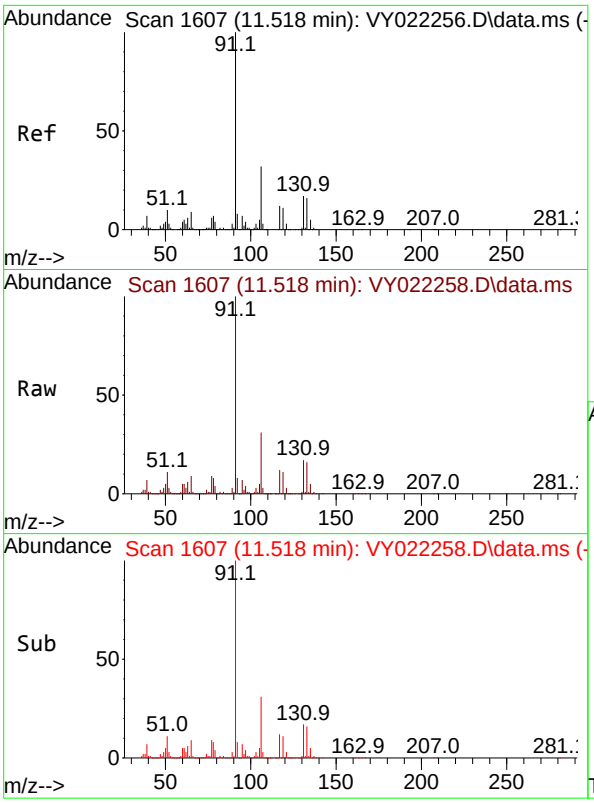


#66
1,1,1,2-Tetrachloroethane
Concen: 158.952 ug/l
RT: 11.518 min Scan# 1607
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion:131 Resp: 480525

Ion	Ratio	Lower	Upper
131	100		
133	95.2	47.3	141.9
119	66.2	33.1	99.2



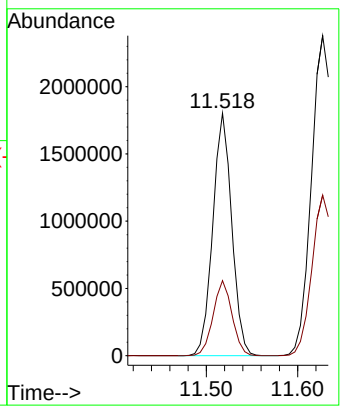


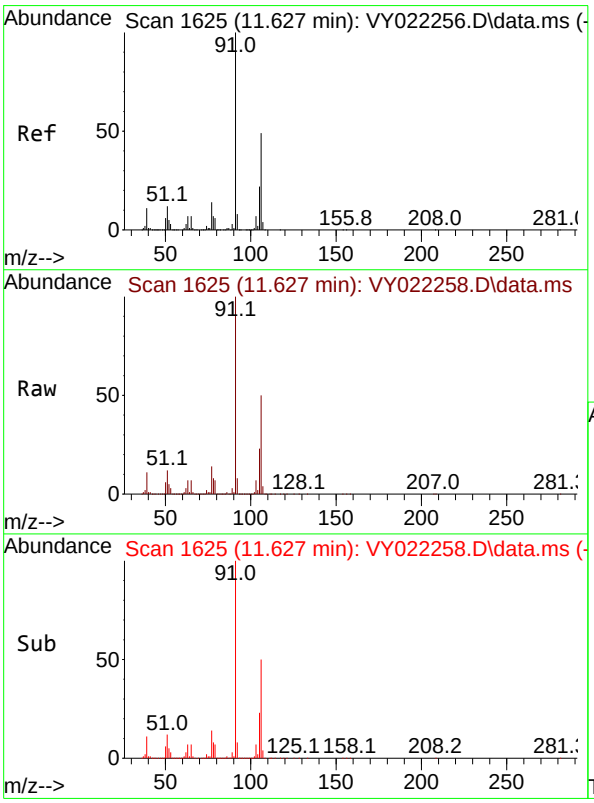
#67
Ethyl Benzene
Concen: 157.756 ug/l
RT: 11.518 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 91 Resp: 2598027

Ion	Ratio	Lower	Upper
91	100		
106	30.9	25.4	38.0

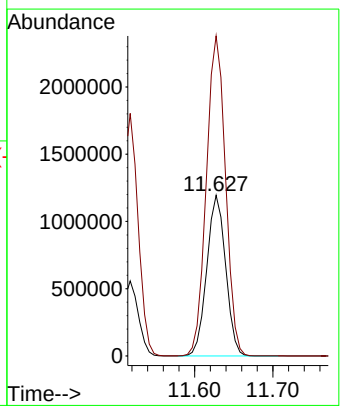


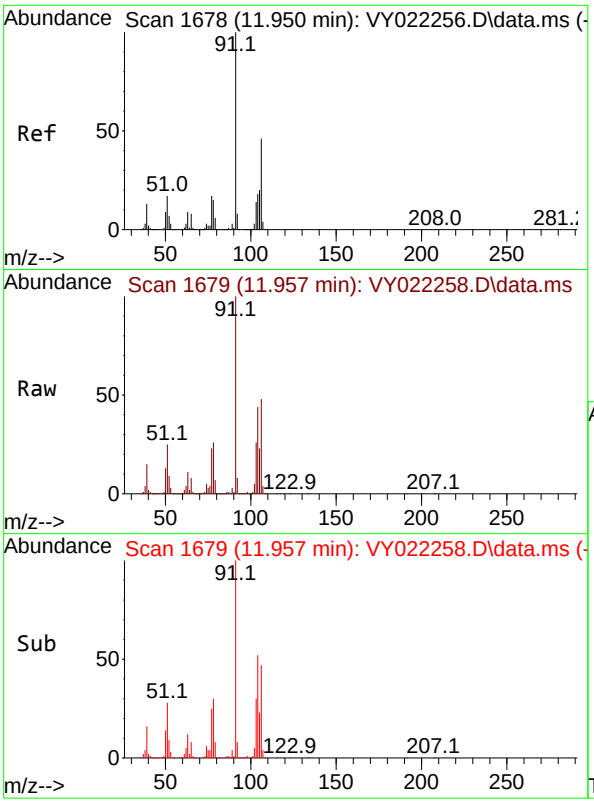


#68
m/p-Xylenes
Concen: 321.066 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion:106 Resp: 1992413

Ion	Ratio	Lower	Upper
106	100		
91	202.7	163.0	244.4



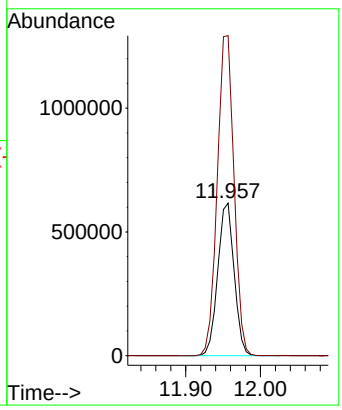


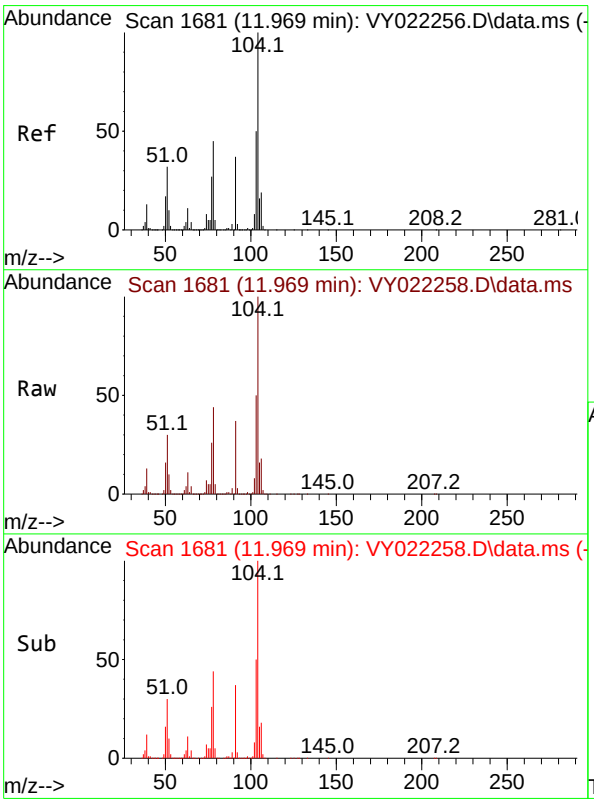
#69
o-Xylene
Concen: 159.714 ug/l
RT: 11.957 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion:106 Resp: 937727

Ion	Ratio	Lower	Upper
106	100		
91	214.6	108.3	324.8

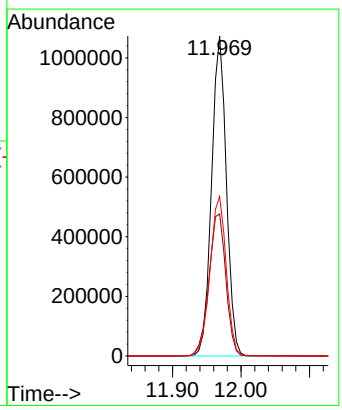


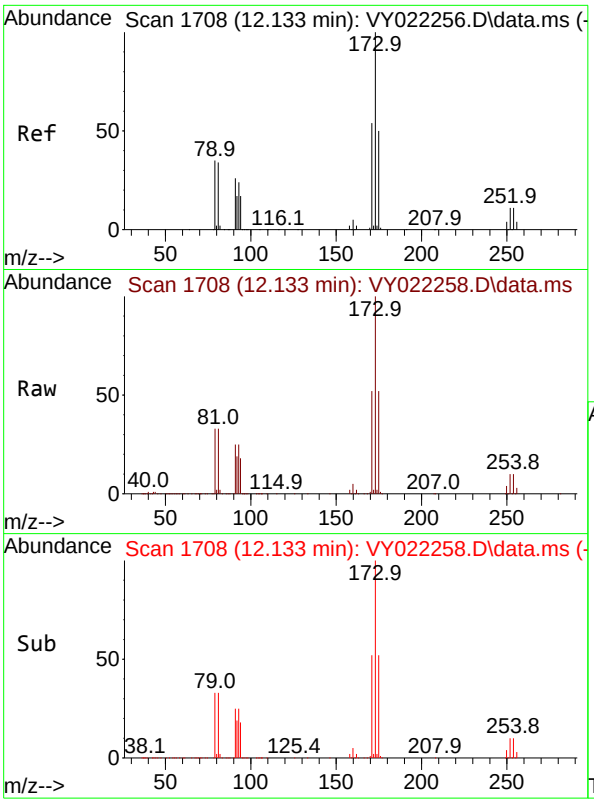


#70
Styrene
Concen: 162.944 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion:104 Resp: 1613798

Ion	Ratio	Lower	Upper
104	100		
78	50.8	40.9	61.3
103	54.7	43.7	65.5



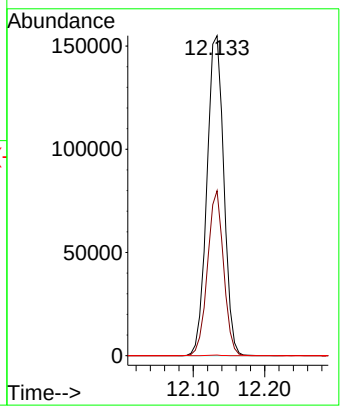


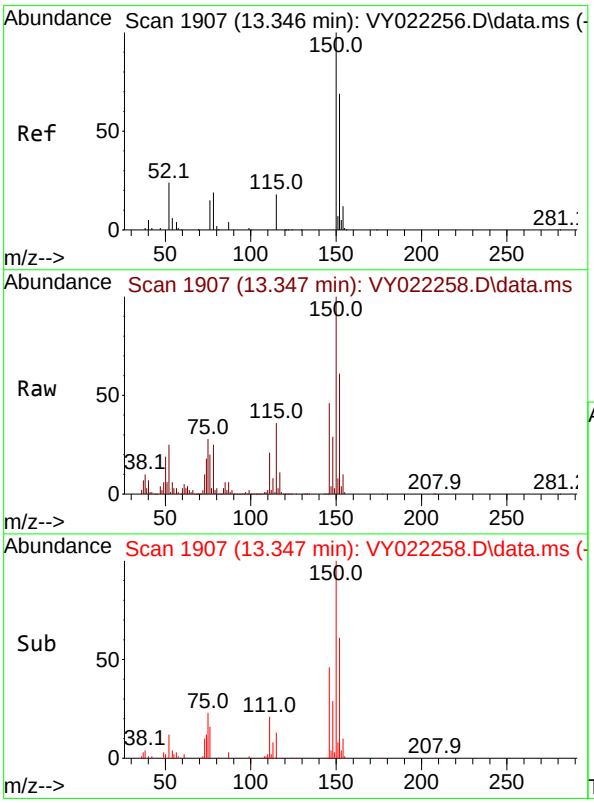
#71
Bromoform
Concen: 155.818 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion:173 Resp: 254251

Ion	Ratio	Lower	Upper
173	100		
175	49.0	24.7	74.1
254	0.1	0.0	0.0#

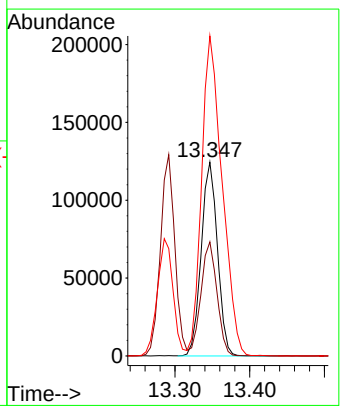


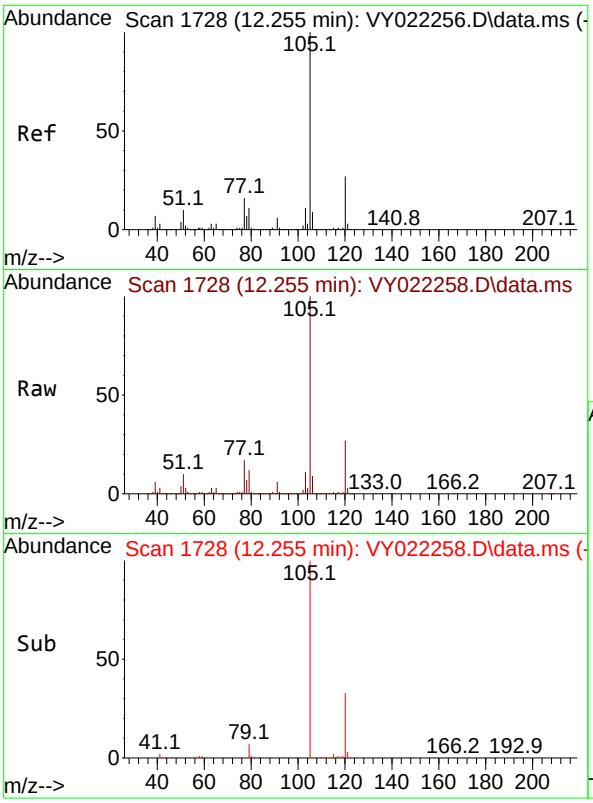


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion:152 Resp: 187978

Ion	Ratio	Lower	Upper
152	100		
115	58.1	29.4	88.2
150	208.7	0.0	353.8



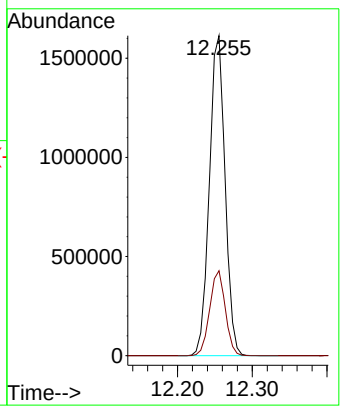


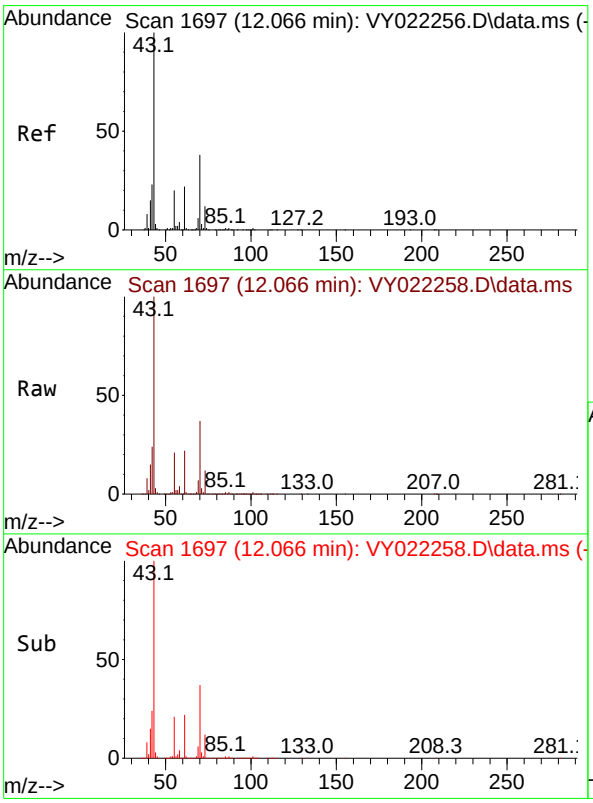
#73
Isopropylbenzene
Concen: 151.387 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion:105 Resp: 2357568

Ion	Ratio	Lower	Upper
105	100		
120	26.4	13.2	39.6

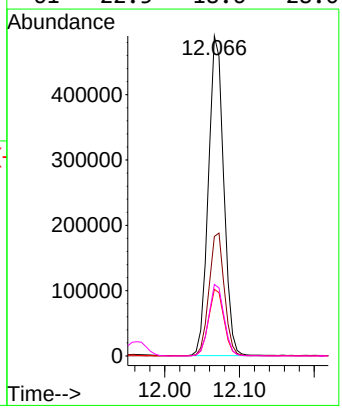


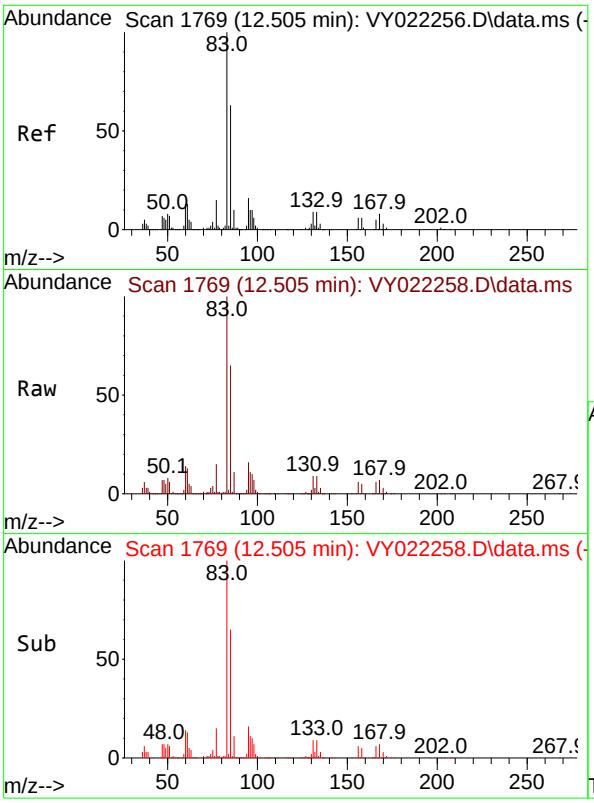


#74
N-amyl acetate
Concen: 156.041 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 43 Resp: 694999

Ion	Ratio	Lower	Upper
43	100		
70	38.7	31.4	47.0
55	21.0	17.0	25.6
61	22.5	18.6	28.0



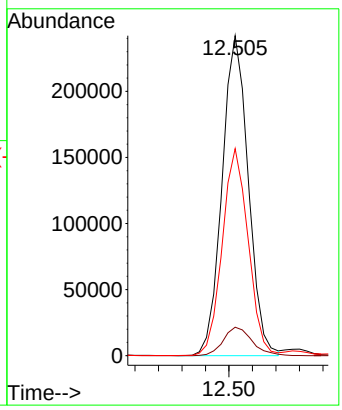


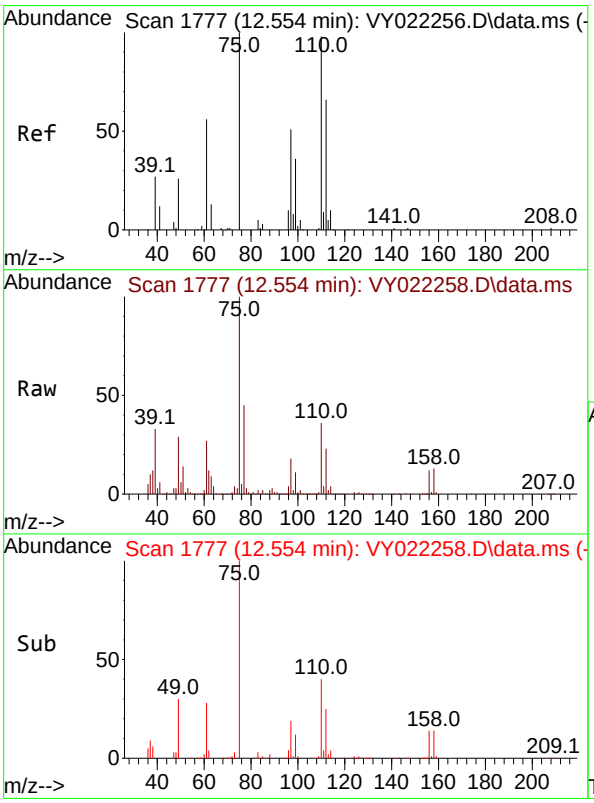
#75
1,1,2,2-Tetrachloroethane
Concen: 156.735 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 83 Resp: 375378

Ion	Ratio	Lower	Upper
83	100		
131	9.8	4.9	14.7
85	63.8	32.0	96.0

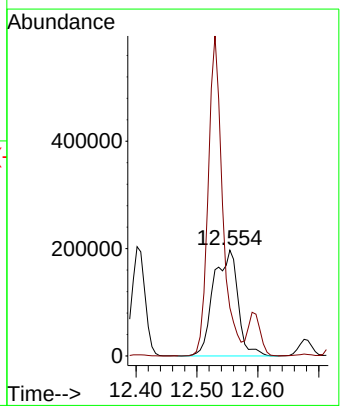


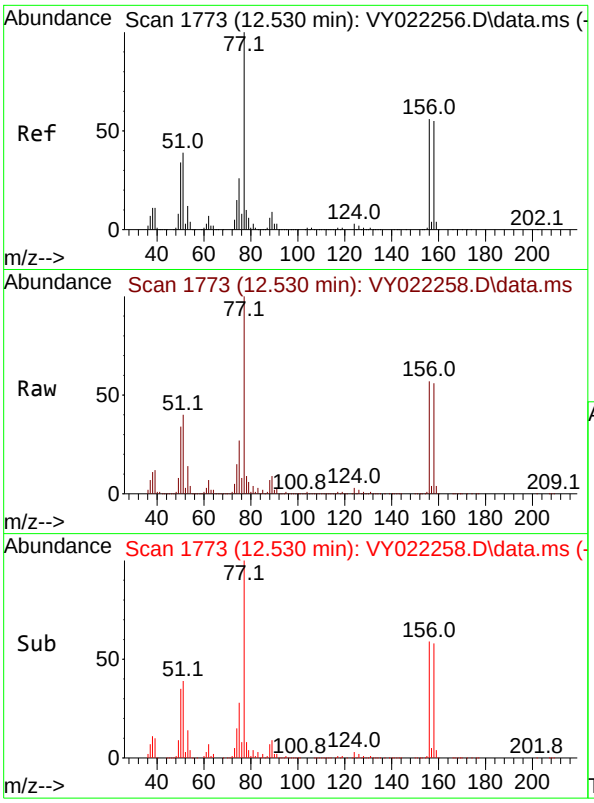


#76
1,2,3-Trichloropropane
Concen: 164.989 ug/l
RT: 12.554 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 75 Resp: 546605

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0



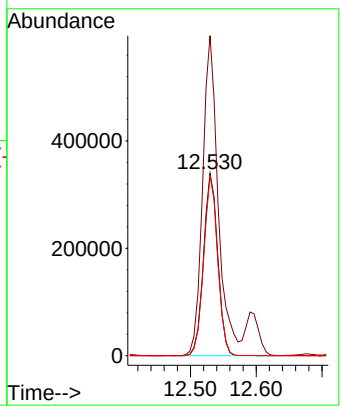


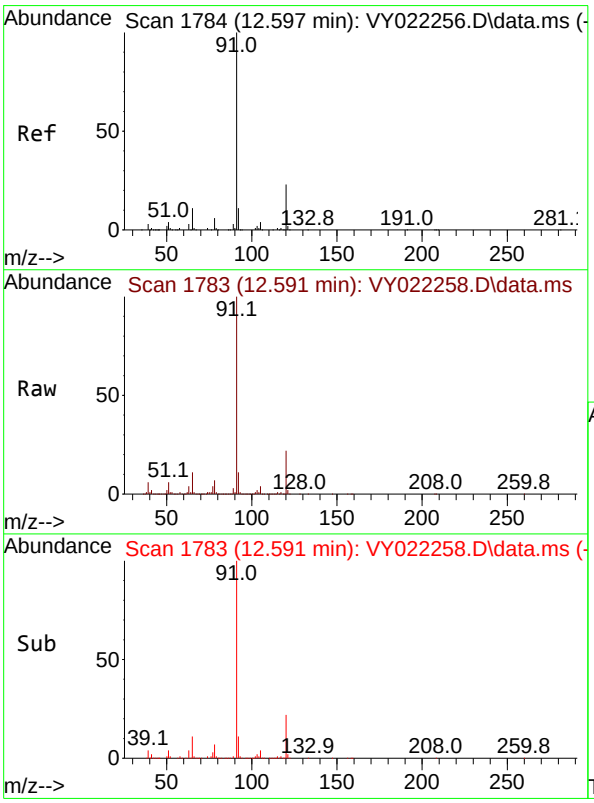
#77
Bromobenzene
Concen: 153.206 ug/l
RT: 12.530 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion:156 Resp: 509579

Ion	Ratio	Lower	Upper
156	100		
77	191.5	94.5	283.6
158	97.3	48.4	145.3

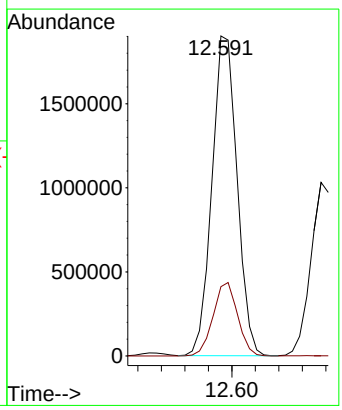


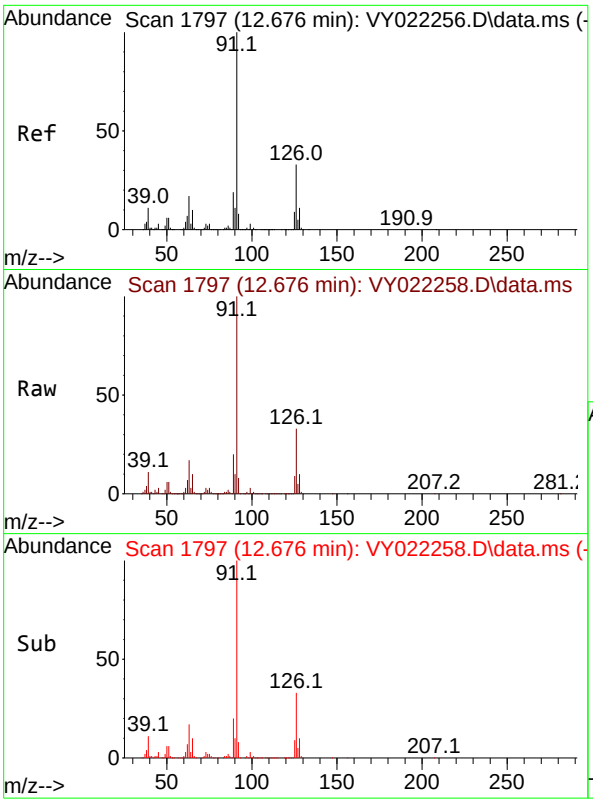


#78
n-propylbenzene
Concen: 150.276 ug/l
RT: 12.591 min Scan# 1783
Delta R.T. -0.006 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 91 Resp: 2822794

Ion	Ratio	Lower	Upper
91	100		
120	22.4	11.1	33.3



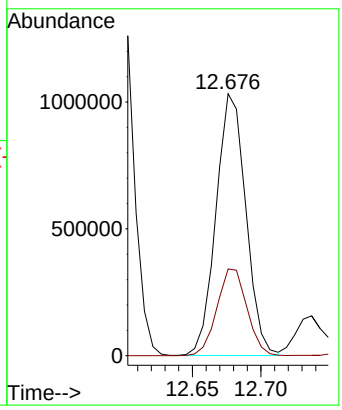


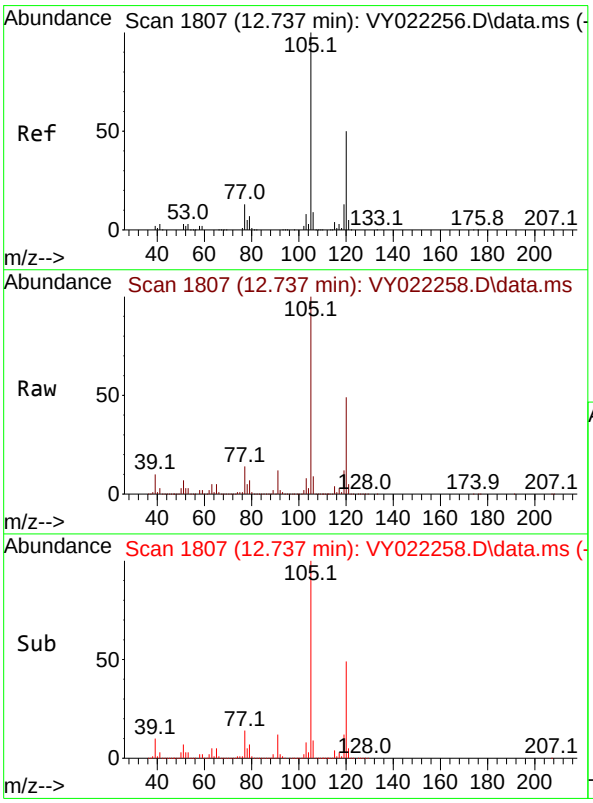
#79
2-Chlorotoluene
Concen: 151.415 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 91 Resp: 1563003

Ion	Ratio	Lower	Upper
91	100		
126	33.4	16.8	50.4

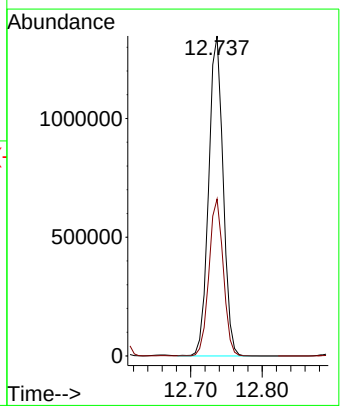


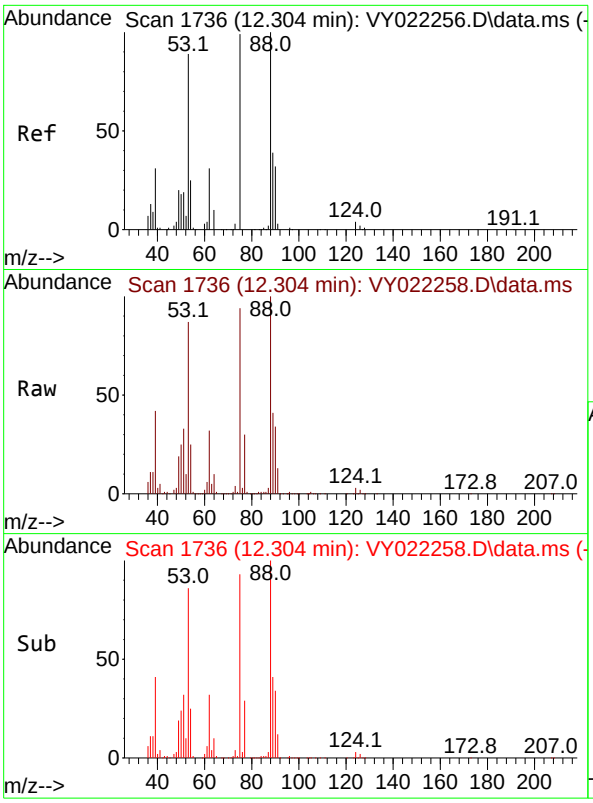


#80
1,3,5-Trimethylbenzene
Concen: 150.219 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion:105 Resp: 1888432

Ion	Ratio	Lower	Upper
105	100		
120	48.7	24.2	72.6



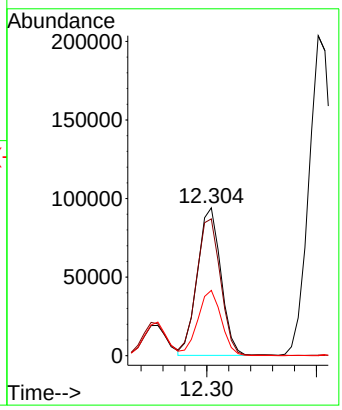


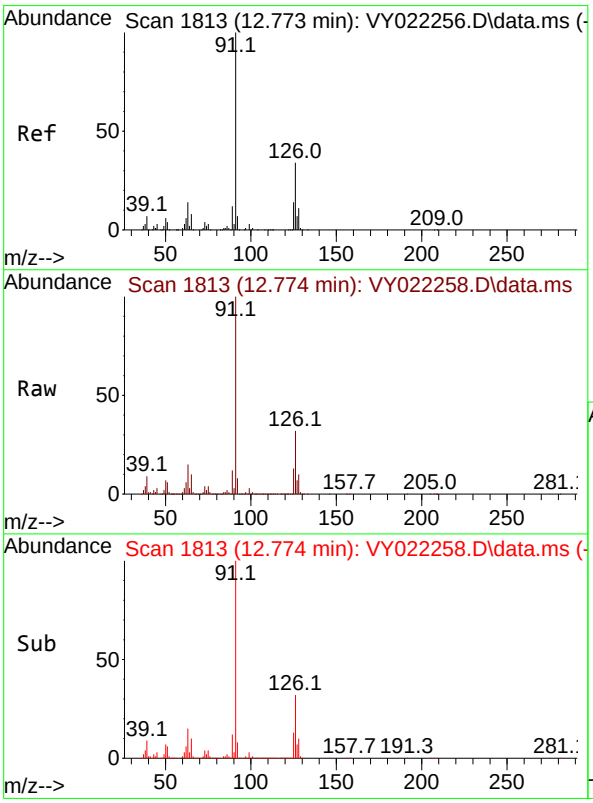
#81
trans-1,4-Dichloro-2-butene
Concen: 148.846 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 75 Resp: 139931

Ion	Ratio	Lower	Upper
75	100		
53	95.1	75.8	113.8
89	44.4	36.2	54.2

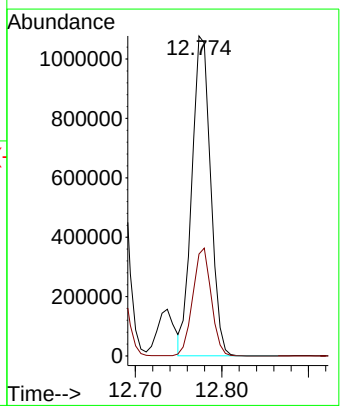


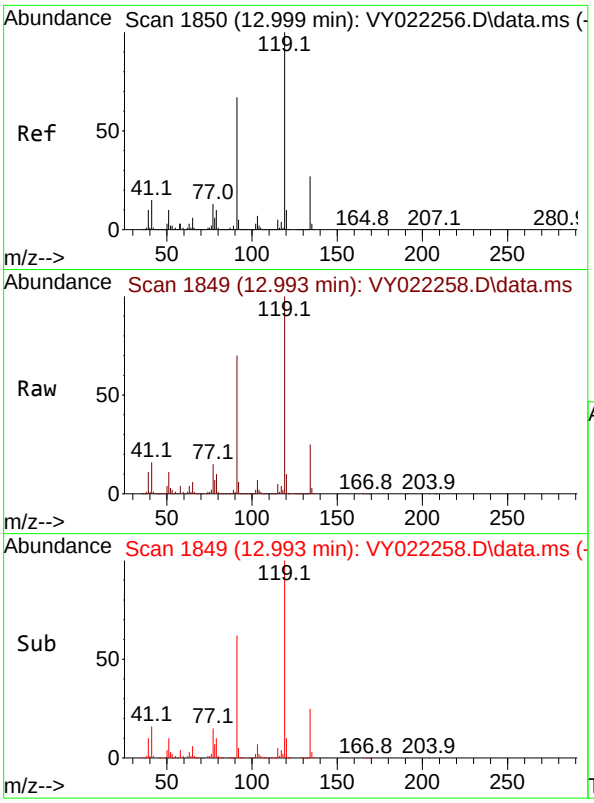


#82
4-Chlorotoluene
Concen: 152.250 ug/l
RT: 12.774 min Scan# 1813
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 91 Resp: 1616520

Ion	Ratio	Lower	Upper
91	100		
126	33.3	16.8	50.4



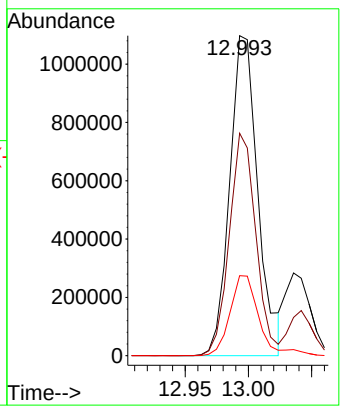


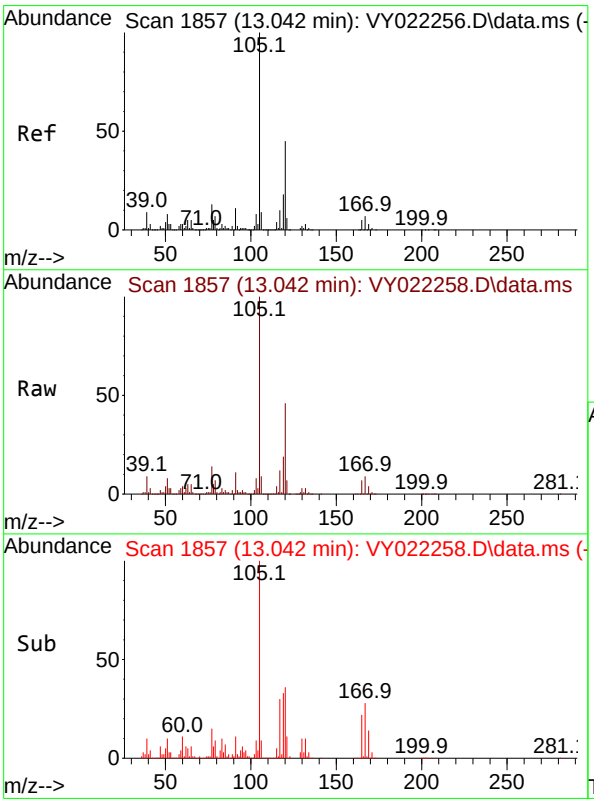
#83
tert-Butylbenzene
Concen: 152.144 ug/l
RT: 12.993 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion:119 Resp: 1699962

Ion	Ratio	Lower	Upper
119	100		
91	65.7	32.8	98.3
134	25.9	12.9	38.6

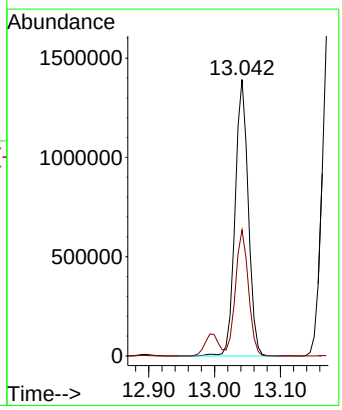


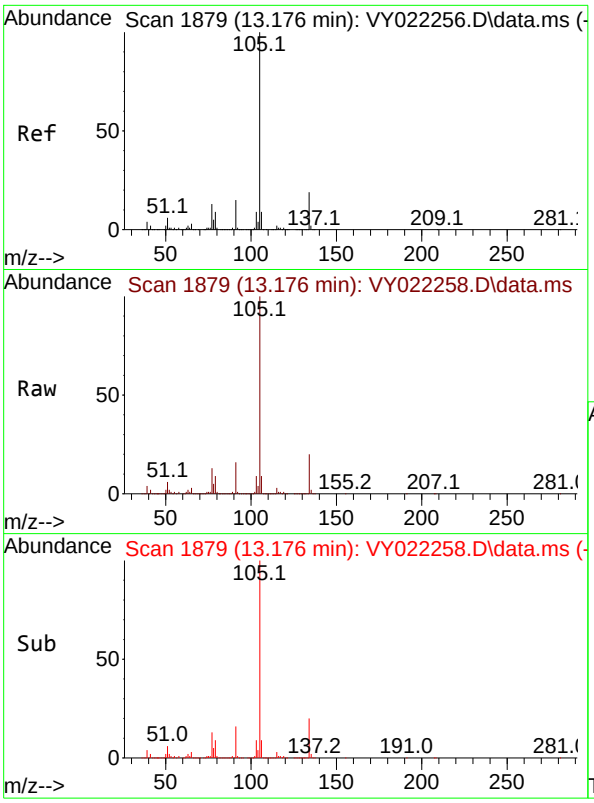


#84
1,2,4-Trimethylbenzene
Concen: 155.030 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion:105 Resp: 1934641

Ion	Ratio	Lower	Upper
105	100		
120	44.7	22.3	66.9



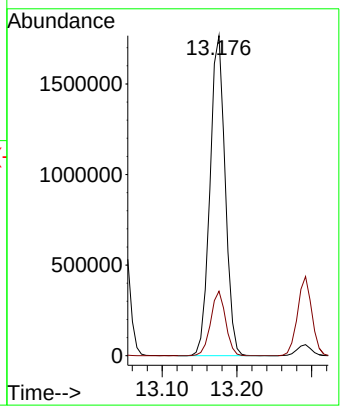


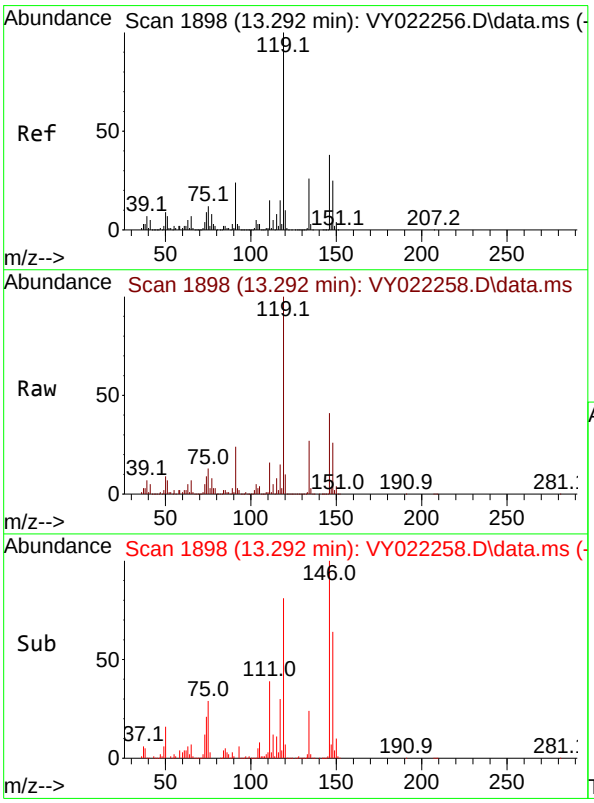
#85
sec-Butylbenzene
Concen: 150.330 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion:105 Resp: 2493393

Ion	Ratio	Lower	Upper
105	100		
134	19.8	9.8	29.5

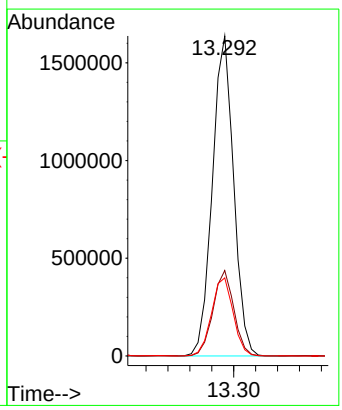


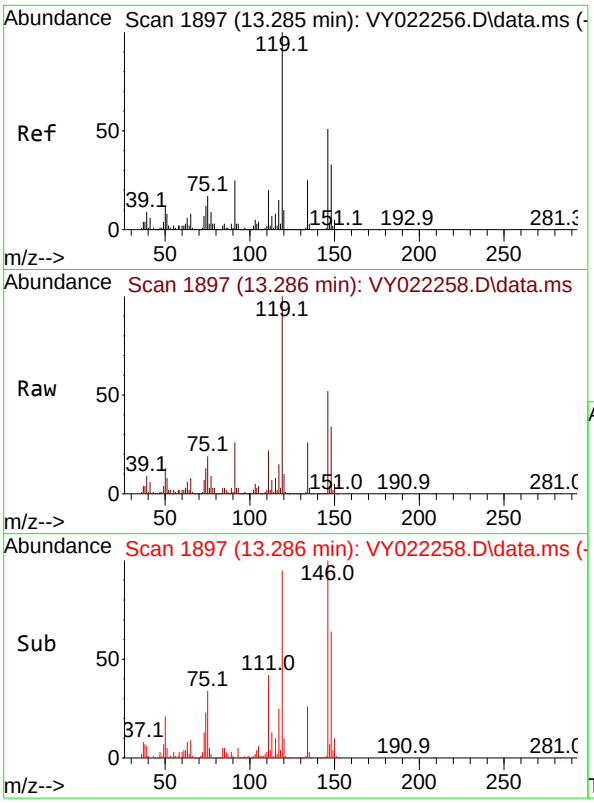


#86
p-Isopropyltoluene
Concen: 158.088 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion:119 Resp: 2205275

Ion	Ratio	Lower	Upper
119	100		
134	26.2	12.9	38.6
91	24.8	12.1	36.3



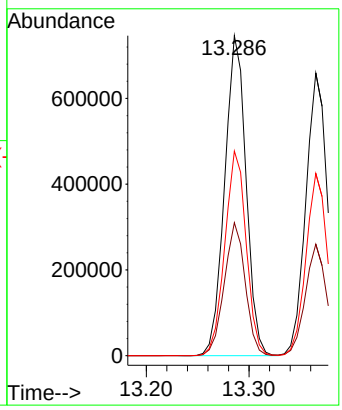


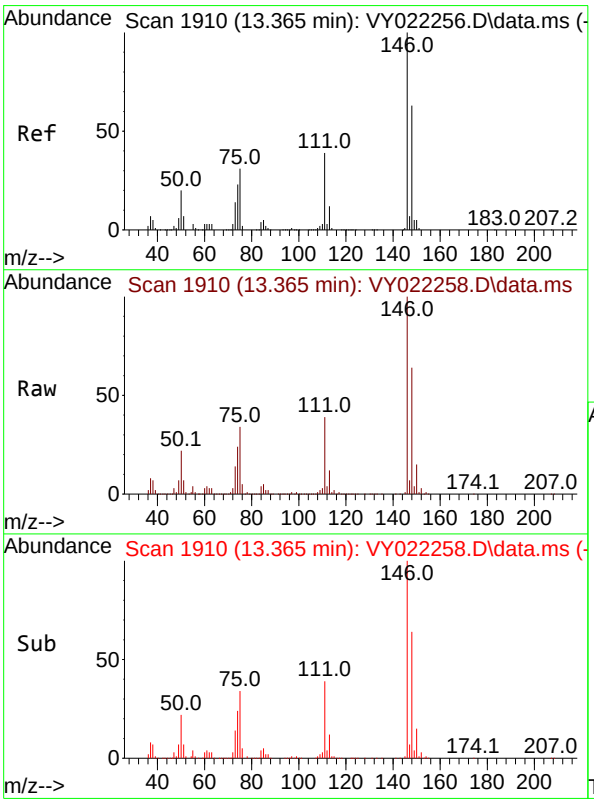
#87
1,3-Dichlorobenzene
Concen: 158.981 ug/l
RT: 13.286 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion:146 Resp: 1079479

Ion	Ratio	Lower	Upper
146	100		
111	40.7	19.9	59.7
148	63.8	31.9	95.7

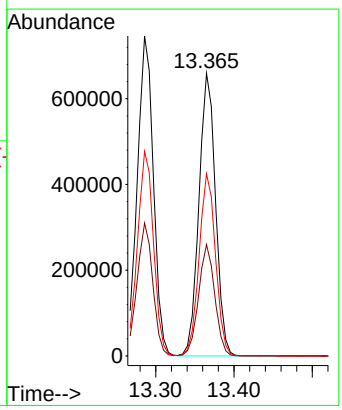


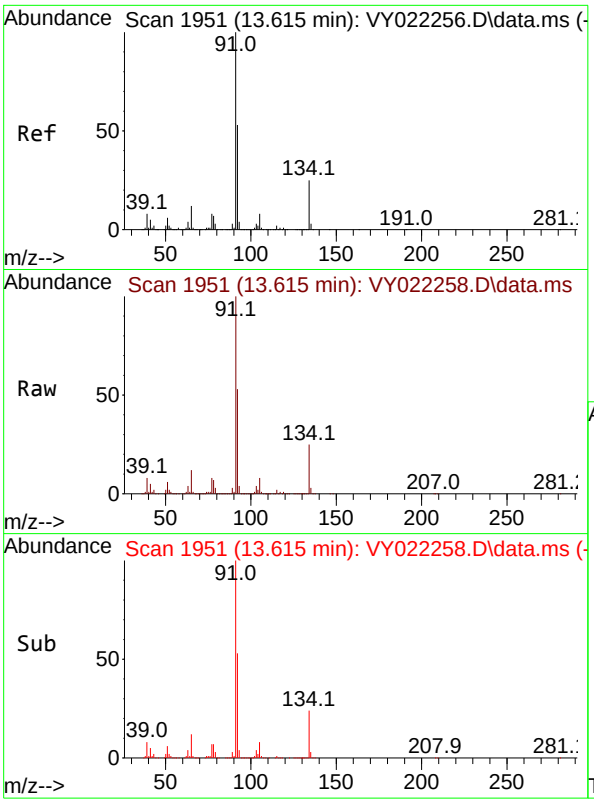


#88
1,4-Dichlorobenzene
Concen: 148.497 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion:146 Resp: 969874

Ion	Ratio	Lower	Upper
146	100		
111	38.4	20.0	59.9
148	63.9	32.1	96.5



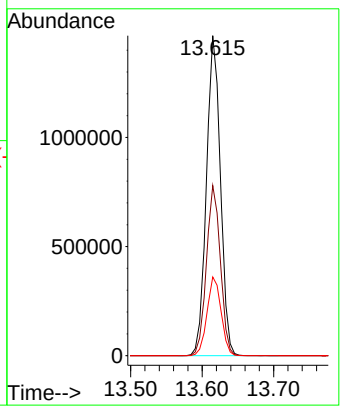


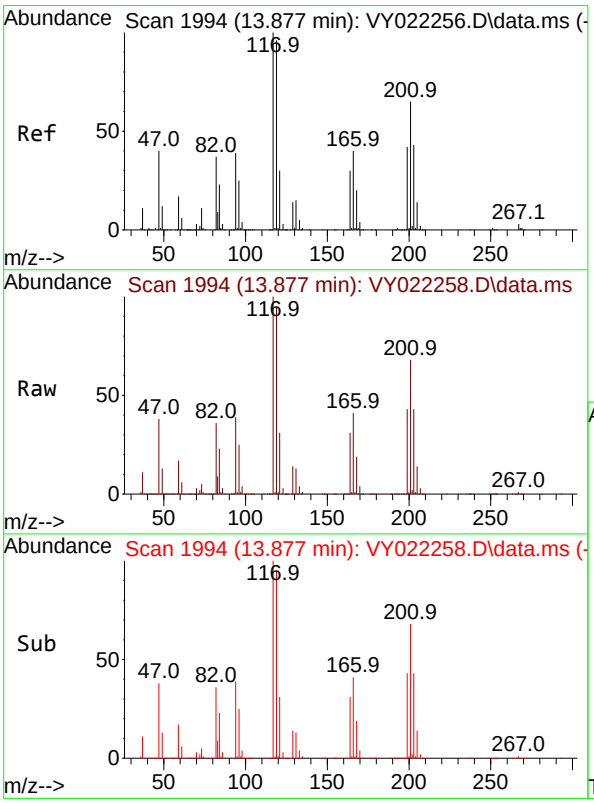
#89
n-Butylbenzene
Concen: 150.985 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 91 Resp: 1992554

Ion	Ratio	Lower	Upper
91	100		
92	53.1	26.3	78.9
134	24.8	12.4	37.4

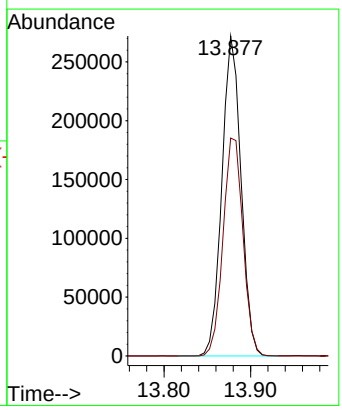


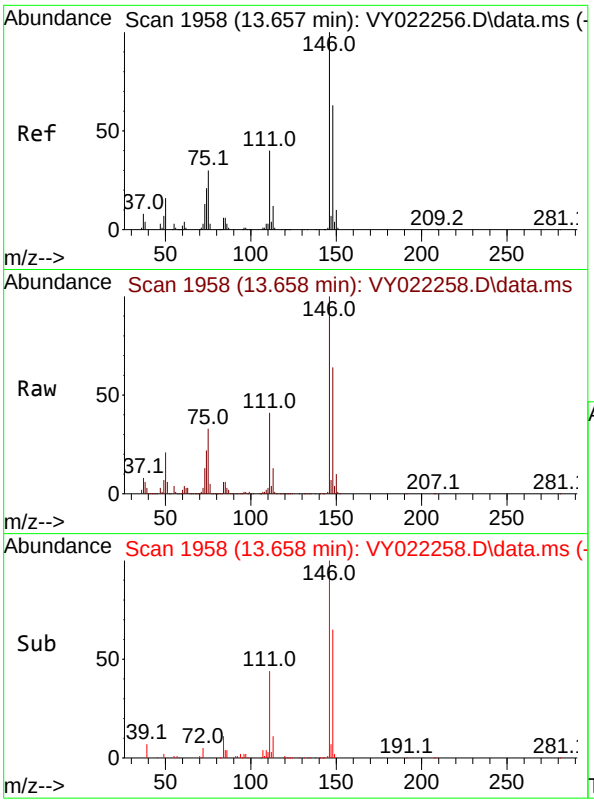


#90
Hexachloroethane
Concen: 148.208 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion:117 Resp: 417341

Ion	Ratio	Lower	Upper
117	100		
201	71.0	35.2	105.6



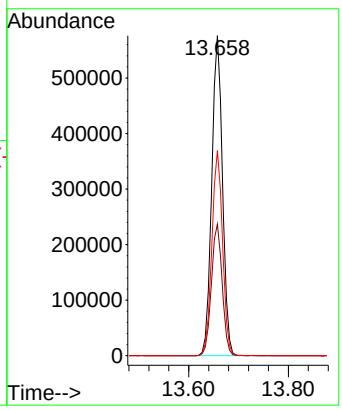


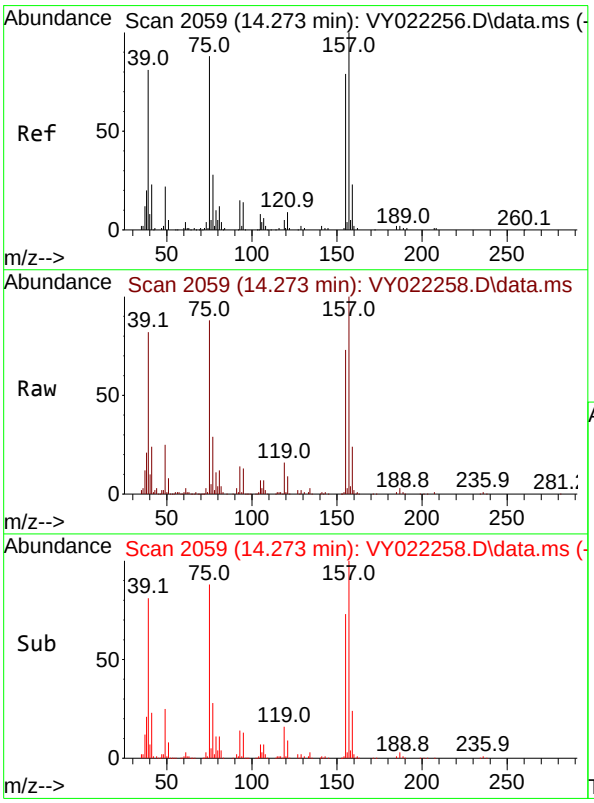
#91
1,2-Dichlorobenzene
Concen: 150.565 ug/l
RT: 13.658 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion:146 Resp: 858733

Ion	Ratio	Lower	Upper
146	100		
111	41.3	20.5	61.5
148	63.8	32.0	96.0

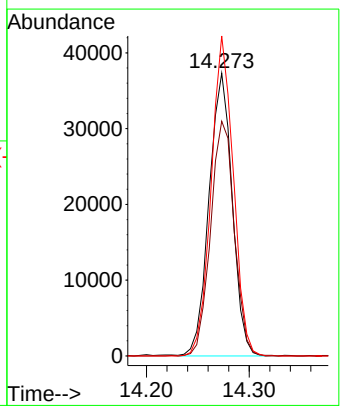


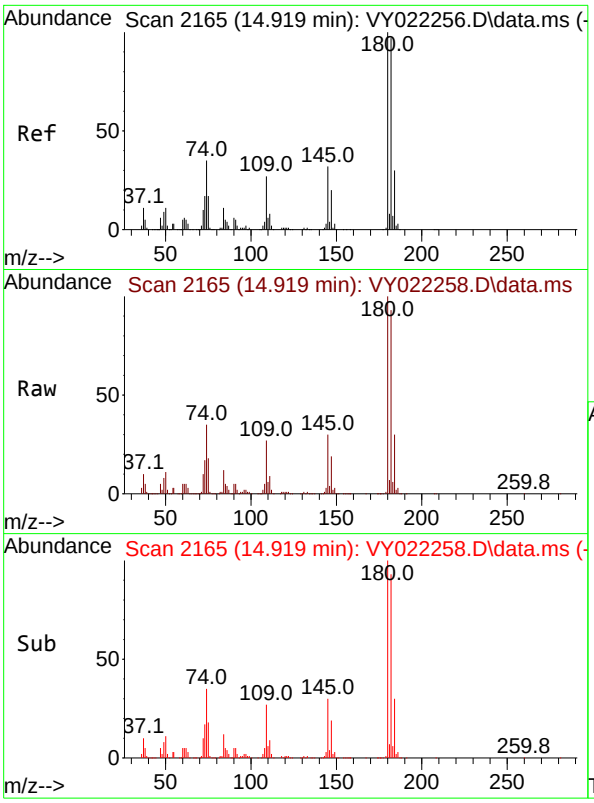


#92
1,2-Dibromo-3-Chloropropane
Concen: 151.172 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion: 75 Resp: 58383

Ion	Ratio	Lower	Upper
75	100		
155	84.6	43.4	130.1
157	108.4	54.6	163.9



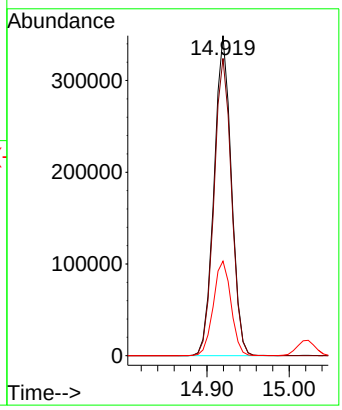


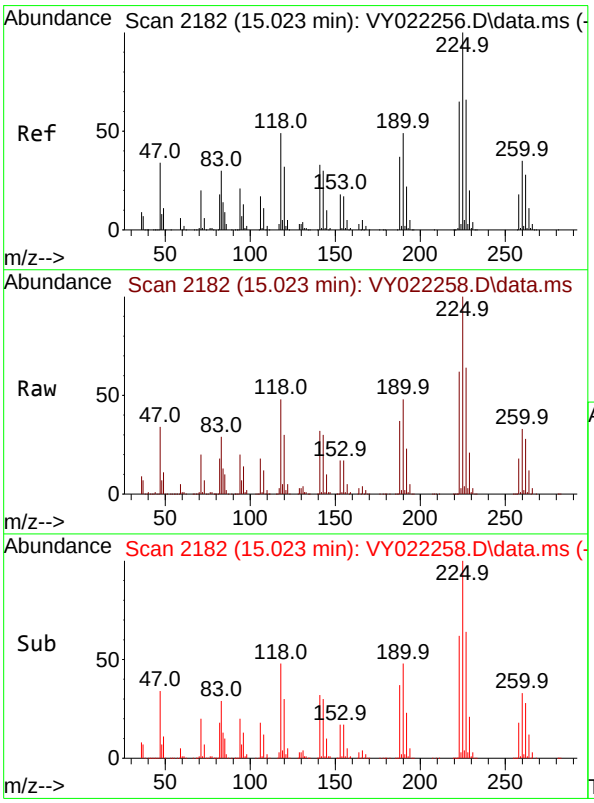
#93
1,2,4-Trichlorobenzene
Concen: 154.361 ug/l
RT: 14.919 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion:180 Resp: 508537

Ion	Ratio	Lower	Upper
180	100		
182	94.3	48.0	144.0
145	30.4	15.0	45.1

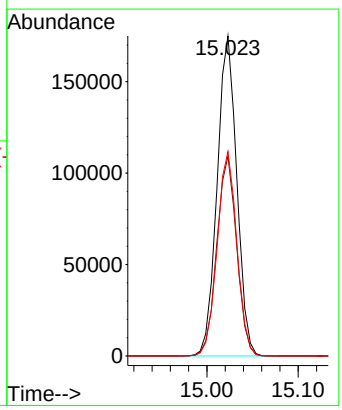


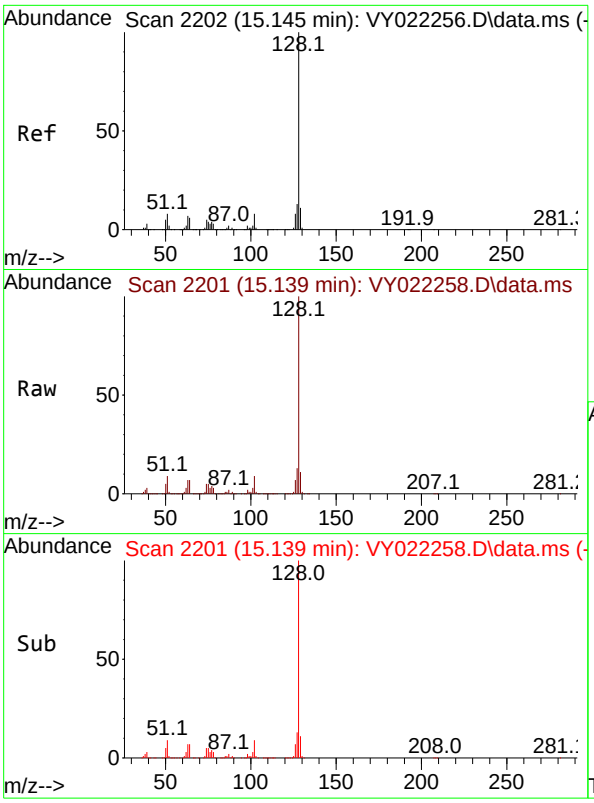


#94
Hexachlorobutadiene
Concen: 142.514 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion:225 Resp: 261832

Ion	Ratio	Lower	Upper
225	100		
223	62.9	31.5	94.5
227	63.8	32.1	96.3



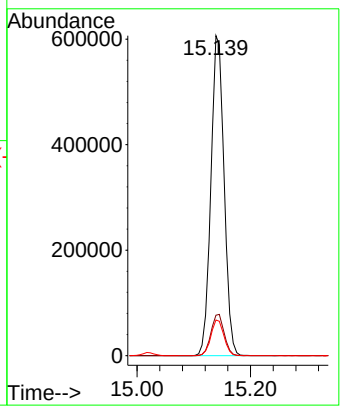


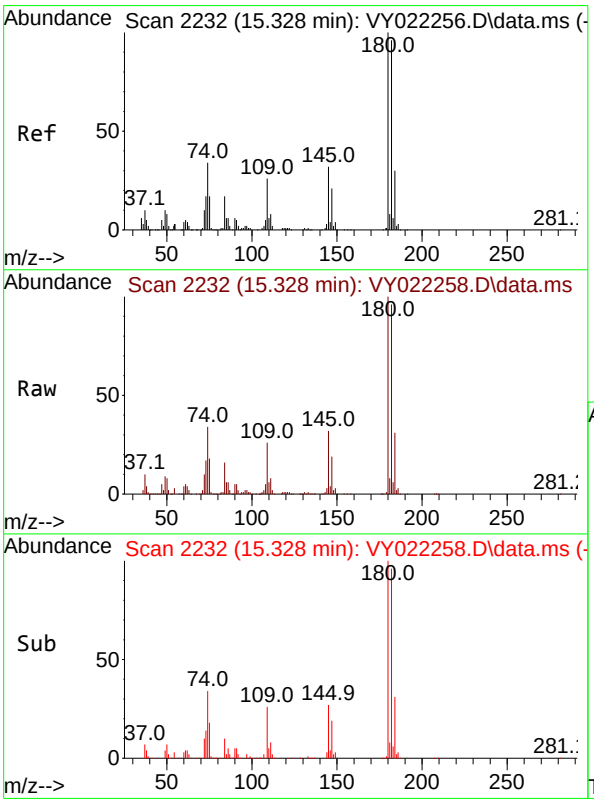
#95
Naphthalene
Concen: 156.653 ug/l
RT: 15.139 min Scan# 2
Delta R.T. -0.006 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion:128 Resp: 979369

Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.2	15.2
129	11.1	8.8	13.2

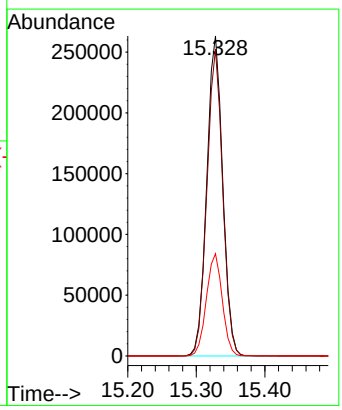




#96
1,2,3-Trichlorobenzene
Concen: 152.509 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. 0.000 min
Lab File: VY022258.D
Acq: 15 May 2025 11:47

Tgt Ion:180 Resp: 426231

Ion	Ratio	Lower	Upper
180	100		
182	94.8	47.1	141.3
145	31.9	15.9	47.6



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022260.D
Acq On : 15 May 2025 13:20
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

Quant Time: May 16 01:47:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	252715	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	428969	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	375548	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	178387	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	143909	52.104	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 104.200%			
35) Dibromofluoromethane	7.634	113	132263	51.658	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 103.320%			
50) Toluene-d8	10.109	98	537188	51.229	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 102.460%			
62) 4-Bromofluorobenzene	12.408	95	169575	51.020	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 102.040%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	130352	49.432	ug/l	97
3) Chloromethane	2.068	50	270248	48.719	ug/l	98
4) Vinyl Chloride	2.202	62	316755	51.111	ug/l	99
5) Bromomethane	2.598	94	244611	48.486	ug/l	99
6) Chloroethane	2.732	64	205247	53.234	ug/l	99
7) Trichlorofluoromethane	3.056	101	321098	51.174	ug/l	99
8) Diethyl Ether	3.458	74	78386	52.055	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.818	101	140460	51.564	ug/l	100
10) Methyl Iodide	4.007	142	156397	49.606	ug/l	99
11) Tert butyl alcohol	4.872	59	55922	265.144	ug/l #	100
12) 1,1-Dichloroethene	3.793	96	139180	51.487	ug/l	98
13) Acrolein	3.653	56	73495	238.362	ug/l	98
14) Allyl chloride	4.378	41	250342	52.817	ug/l	100
15) Acrylonitrile	5.055	53	164507	265.134	ug/l	99
16) Acetone	3.872	43	130848	252.660	ug/l	99
17) Carbon Disulfide	4.104	76	456302	51.765	ug/l	99
18) Methyl Acetate	4.385	43	97091	59.461	ug/l	98
19) Methyl tert-butyl Ether	5.116	73	395753	53.096	ug/l	99
20) Methylene Chloride	4.610	84	158275	47.298	ug/l	92
21) trans-1,2-Dichloroethene	5.110	96	153819	51.552	ug/l	98
22) Diisopropyl ether	6.018	45	521343	52.085	ug/l	99
23) Vinyl Acetate	5.957	43	1530507	253.098	ug/l	99
24) 1,1-Dichloroethane	5.915	63	288933	51.668	ug/l	97
25) 2-Butanone	6.896	43	221702	255.929	ug/l	97
26) 2,2-Dichloropropane	6.884	77	259587	52.191	ug/l	100
27) cis-1,2-Dichloroethene	6.890	96	180695	52.479	ug/l	100
28) Bromochloromethane	7.250	49	124761	52.305	ug/l	99
29) Tetrahydrofuran	7.262	42	147603	264.847	ug/l	99
30) Chloroform	7.421	83	283264	52.810	ug/l	100
31) Cyclohexane	7.701	56	271949	48.673	ug/l	99
32) 1,1,1-Trichloroethane	7.616	97	253549	51.523	ug/l	99
36) 1,1-Dichloropropene	7.835	75	212786	50.457	ug/l	99
37) Ethyl Acetate	6.982	43	102740	50.633	ug/l	98
38) Carbon Tetrachloride	7.817	117	220636	50.543	ug/l	98
39) Methylcyclohexane	9.109	83	283373	50.015	ug/l	98
40) Benzene	8.079	78	646289	51.696	ug/l	100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022260.D
Acq On : 15 May 2025 13:20
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

Quant Time: May 16 01:47:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.213	41	53692	39.891	ug/l	#	77
42) 1,2-Dichloroethane	8.158	62	175241	51.834	ug/l		100
43) Isopropyl Acetate	8.195	43	227521	51.415	ug/l	#	89
44) Trichloroethene	8.865	130	156468	50.335	ug/l		96
45) 1,2-Dichloropropane	9.140	63	154975	51.417	ug/l		99
46) Dibromomethane	9.231	93	83597	51.423	ug/l		100
47) Bromodichloromethane	9.426	83	221446	52.508	ug/l		99
48) Methyl methacrylate	9.219	41	106283	51.357	ug/l		98
49) 1,4-Dioxane	9.231	88	18521	1008.479	ug/l		95
51) 4-Methyl-2-Pentanone	9.999	43	567722	261.463	ug/l		99
52) Toluene	10.170	92	406420	51.337	ug/l		99
53) t-1,3-Dichloropropene	10.396	75	211790	51.458	ug/l		98
54) cis-1,3-Dichloropropene	9.853	75	244811	51.916	ug/l		100
55) 1,1,2-Trichloroethane	10.572	97	106464	51.142	ug/l		99
56) Ethyl methacrylate	10.438	69	164207	50.639	ug/l		99
57) 1,3-Dichloropropane	10.719	76	191889	51.880	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.713	63	394587	271.104	ug/l		100
59) 2-Hexanone	10.761	43	375224	257.738	ug/l		100
60) Dibromochloromethane	10.914	129	141652	52.425	ug/l		99
61) 1,2-Dibromoethane	11.018	107	99783	51.428	ug/l		99
64) Tetrachloroethene	10.646	164	162818	46.905	ug/l		99
65) Chlorobenzene	11.444	112	422170	49.827	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.517	131	144636	49.656	ug/l		99
67) Ethyl Benzene	11.517	91	794978	50.100	ug/l		99
68) m/p-Xylenes	11.627	106	604420	101.087	ug/l		99
69) o-Xylene	11.956	106	286712	50.682	ug/l		98
70) Styrene	11.969	104	481621	50.471	ug/l		99
71) Bromoform	12.133	173	80216	51.022	ug/l	#	100
73) Isopropylbenzene	12.255	105	738398	49.964	ug/l		100
74) N-amyl acetate	12.072	43	210510	49.805	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.505	83	120599	53.062	ug/l		97
76) 1,2,3-Trichloropropane	12.560	75	167358	92.604	ug/l	#	100
77) Bromobenzene	12.536	156	155843	49.374	ug/l		97
78) n-propylbenzene	12.596	91	896555	50.296	ug/l		100
79) 2-Chlorotoluene	12.682	91	491073	50.130	ug/l		100
80) 1,3,5-Trimethylbenzene	12.737	105	592100	49.632	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.304	75	43921	49.231	ug/l		99
82) 4-Chlorotoluene	12.779	91	510451	50.661	ug/l		100
83) tert-Butylbenzene	12.999	119	527140	49.715	ug/l		100
84) 1,2,4-Trimethylbenzene	13.042	105	598450	50.535	ug/l		99
85) sec-Butylbenzene	13.176	105	787000	50.000	ug/l		100
86) p-Isopropyltoluene	13.291	119	664795	50.219	ug/l		99
87) 1,3-Dichlorobenzene	13.291	146	320357	49.718	ug/l		100
88) 1,4-Dichlorobenzene	13.365	146	307847	49.669	ug/l		98
89) n-Butylbenzene	13.621	91	631222	50.402	ug/l		100
90) Hexachloroethane	13.883	117	132281	49.502	ug/l		100
91) 1,2-Dichlorobenzene	13.657	146	270373	49.954	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	18335	50.028	ug/l		98
93) 1,2,4-Trichlorobenzene	14.919	180	152548	48.794	ug/l		99
94) Hexachlorobutadiene	15.023	225	83287	47.770	ug/l		99
95) Naphthalene	15.145	128	287276	48.421	ug/l		100
96) 1,2,3-Trichlorobenzene	15.328	180	127466	48.060	ug/l		99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022260.D
Acq On : 15 May 2025 13:20
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

Quant Time: May 16 01:47:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

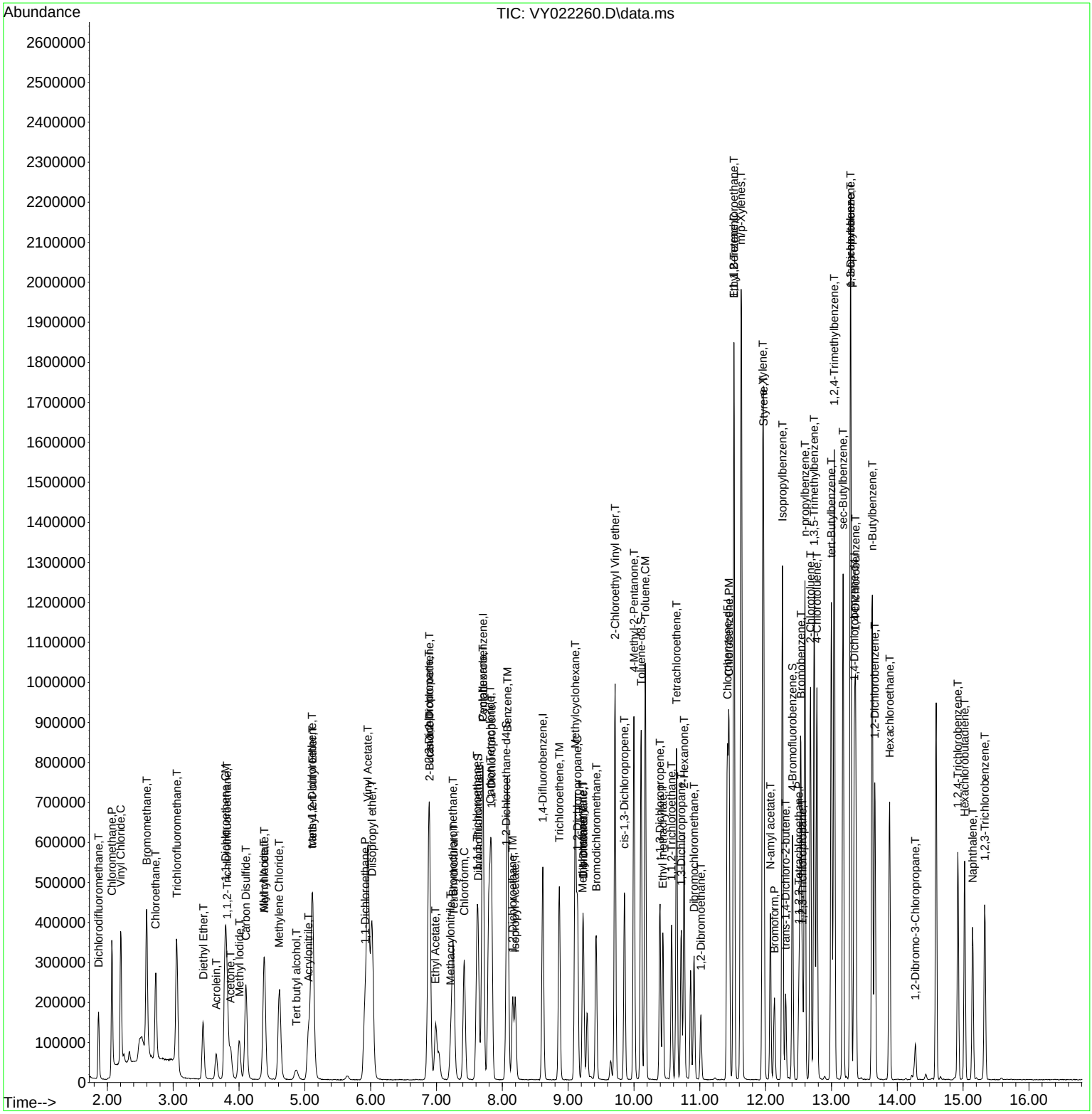
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

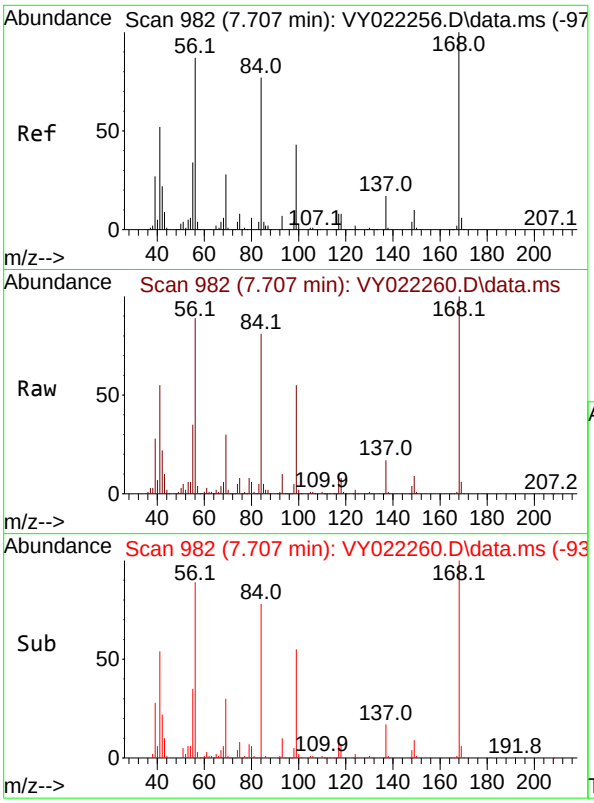
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY051525\
Data File : VY022260.D
Acq On : 15 May 2025 13:20
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

Quant Time: May 16 01:47:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration



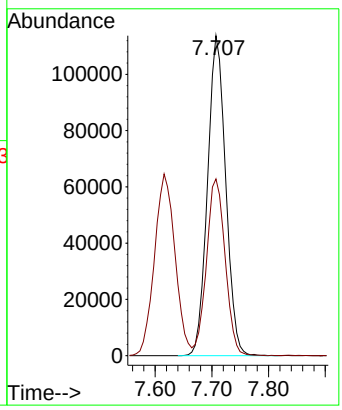


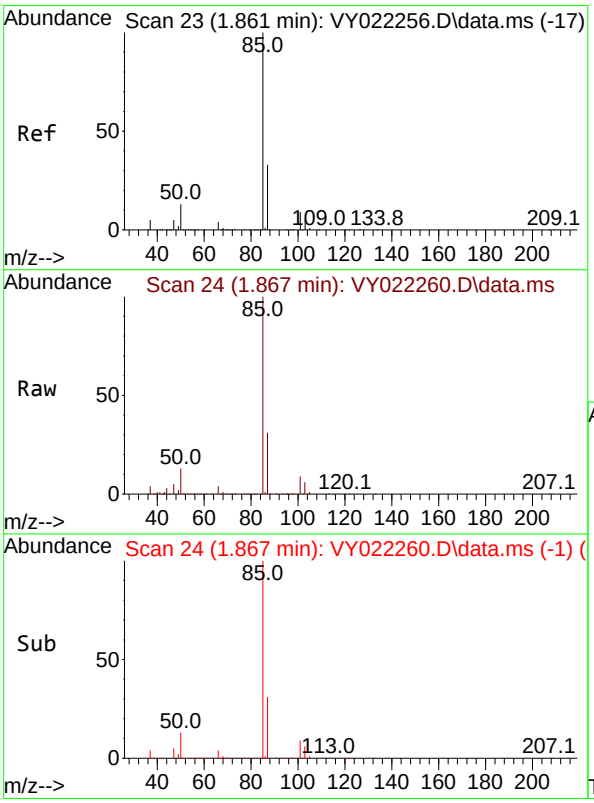
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

Tgt Ion:168 Resp: 252715

Ion	Ratio	Lower	Upper
168	100		
99	55.2	44.2	66.4

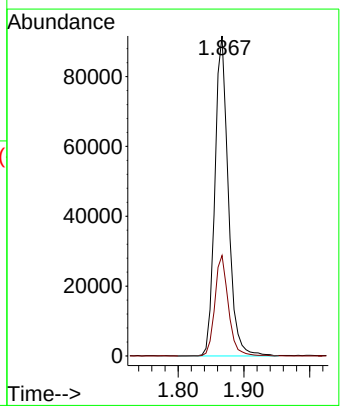


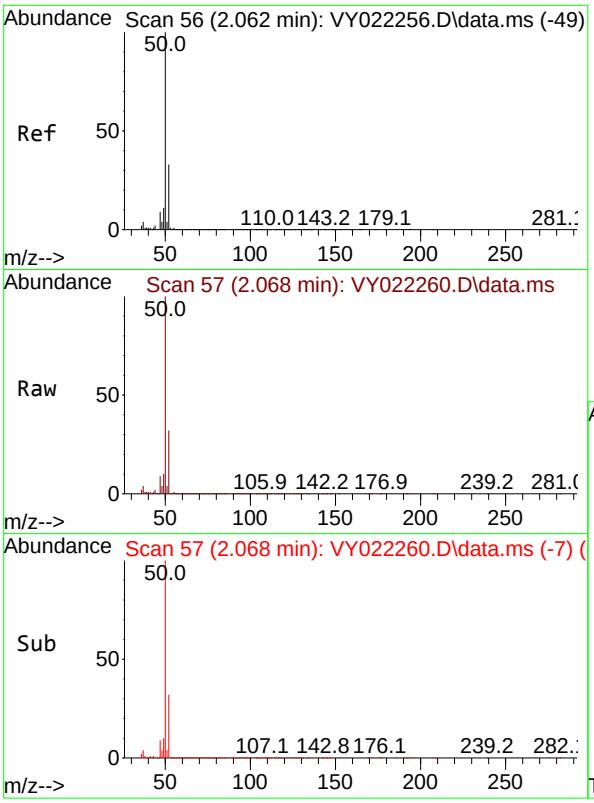


#2
Dichlorodifluoromethane
Concen: 49.432 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.006 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 85 Resp: 130352

Ion	Ratio	Lower	Upper
85	100		
87	31.4	16.5	49.5



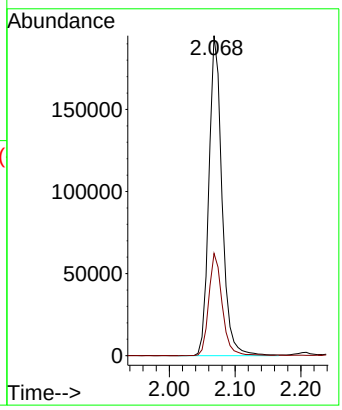


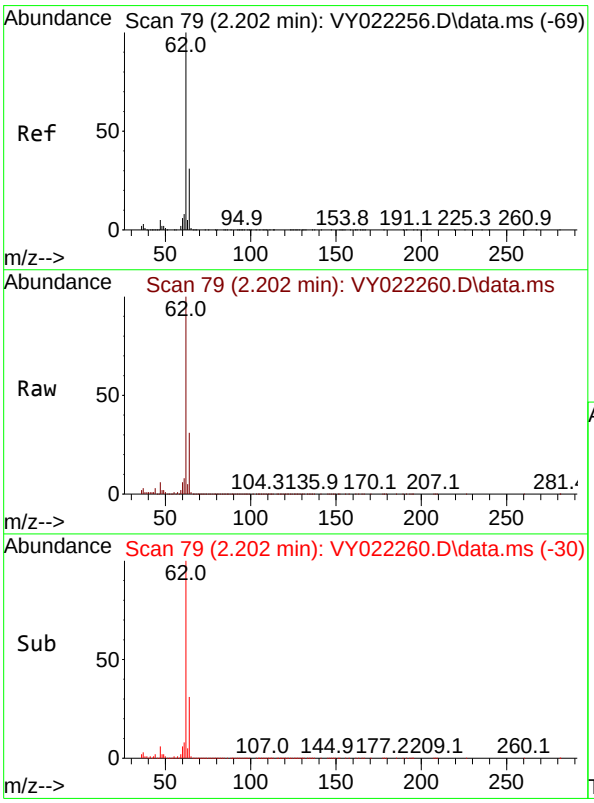
#3
Chloromethane
Concen: 48.719 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

Tgt Ion: 50 Resp: 270248

Ion	Ratio	Lower	Upper
50	100		
52	31.9	26.5	39.7

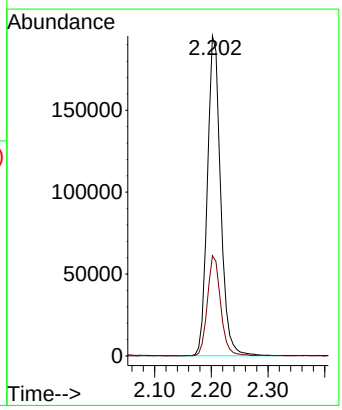


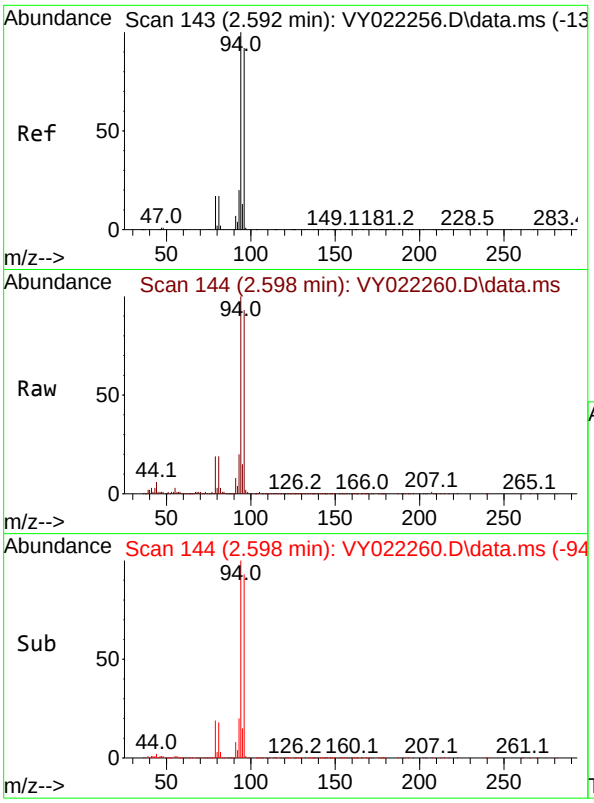


#4
Vinyl Chloride
Concen: 51.111 ug/l
RT: 2.202 min Scan# 79
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 62 Resp: 316755

Ion	Ratio	Lower	Upper
62	100		
64	31.3	24.5	36.7



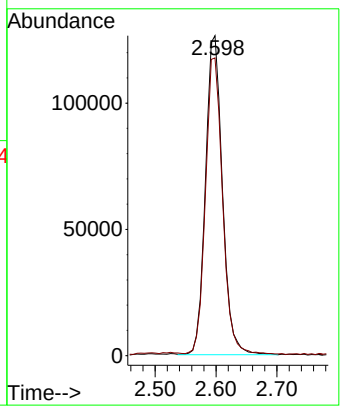


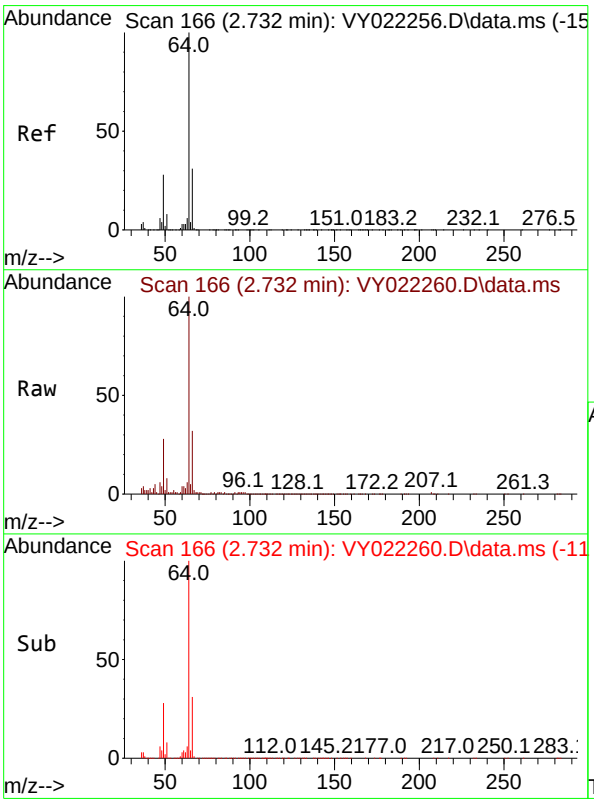
#5
Bromomethane
Concen: 48.486 ug/l
RT: 2.598 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

Tgt Ion: 94 Resp: 244611

Ion	Ratio	Lower	Upper
94	100		
96	92.8	73.4	110.0

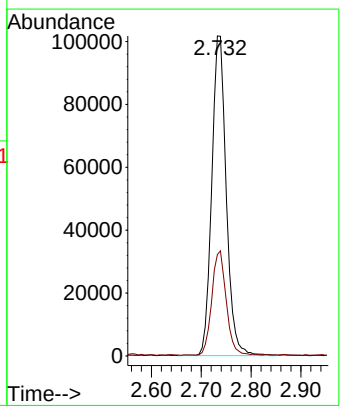


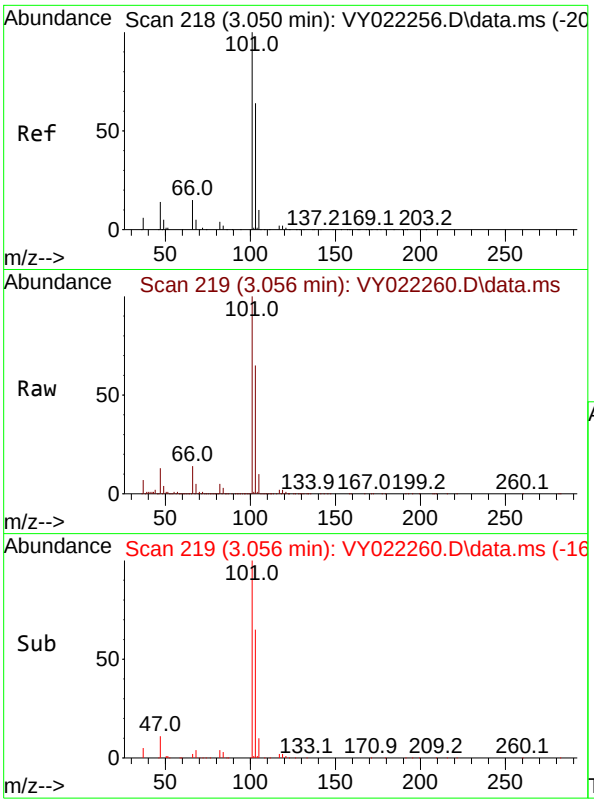


#6
Chloroethane
Concen: 53.234 ug/l
RT: 2.732 min Scan# 166
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 64 Resp: 205247

Ion	Ratio	Lower	Upper
64	100		
66	31.4	24.8	37.2



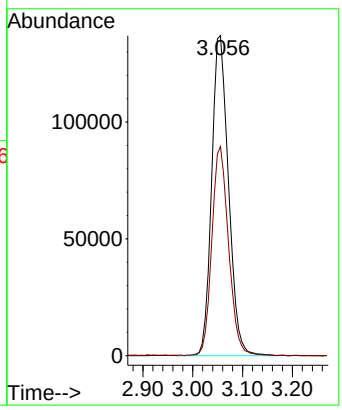


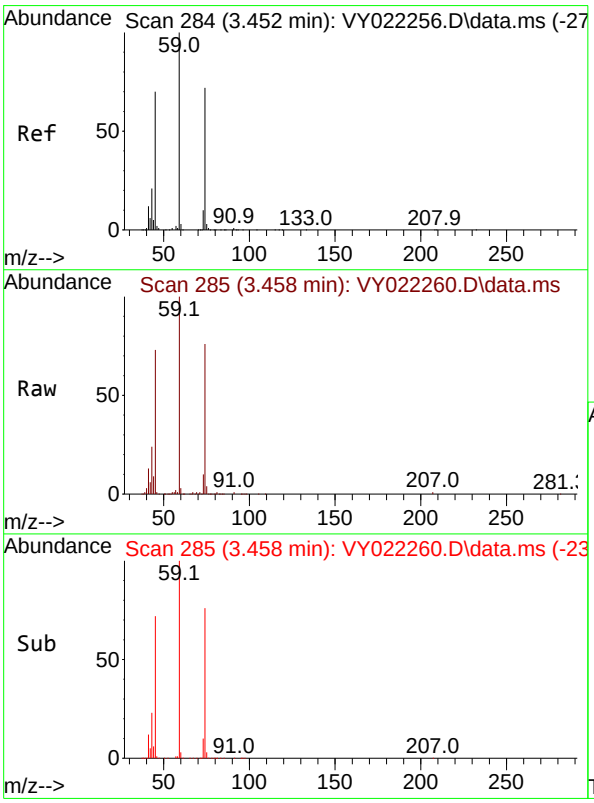
#7
Trichlorofluoromethane
Concen: 51.174 ug/l
RT: 3.056 min Scan# 21
Delta R.T. 0.006 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

Tgt Ion:101 Resp: 321098

Ion	Ratio	Lower	Upper
101	100		
103	65.3	51.7	77.5

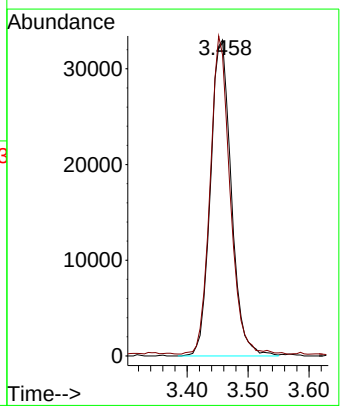


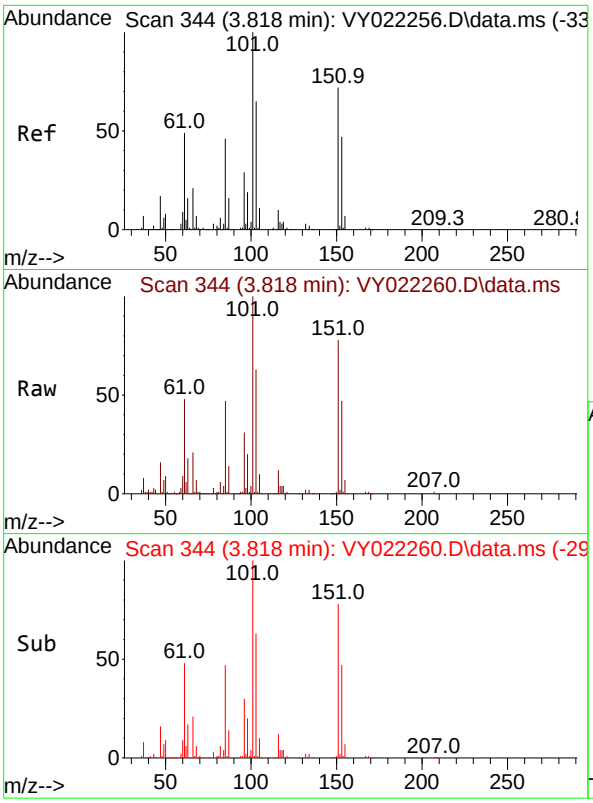


#8
Diethyl Ether
Concen: 52.055 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.006 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 74 Resp: 78386

Ion	Ratio	Lower	Upper
74	100		
45	96.3	48.6	145.8



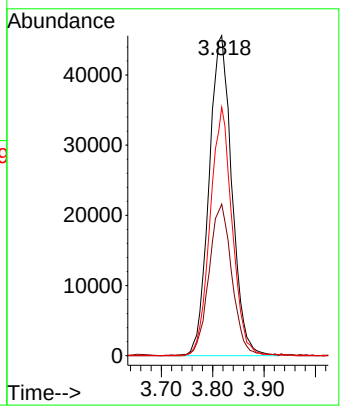


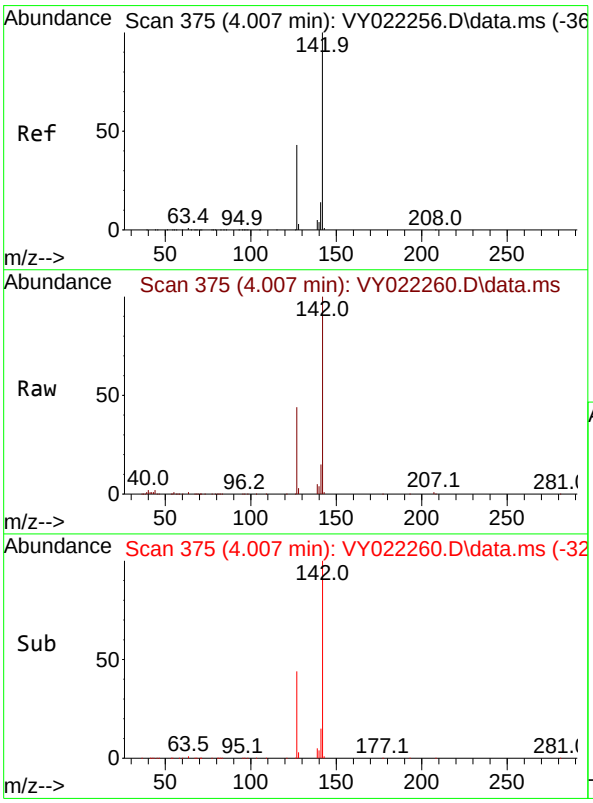
#9
1,1,2-Trichlorotrifluoroethane
Concen: 51.564 ug/l
RT: 3.818 min Scan# 34
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

Tgt Ion:101 Resp: 140460

Ion	Ratio	Lower	Upper
101	100		
85	47.9	38.6	58.0
151	74.9	59.7	89.5

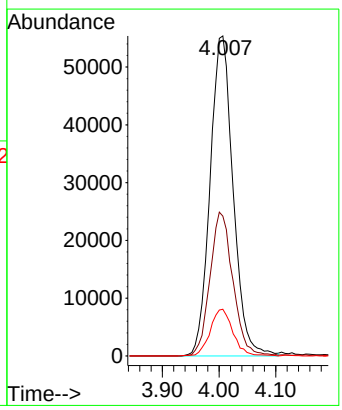


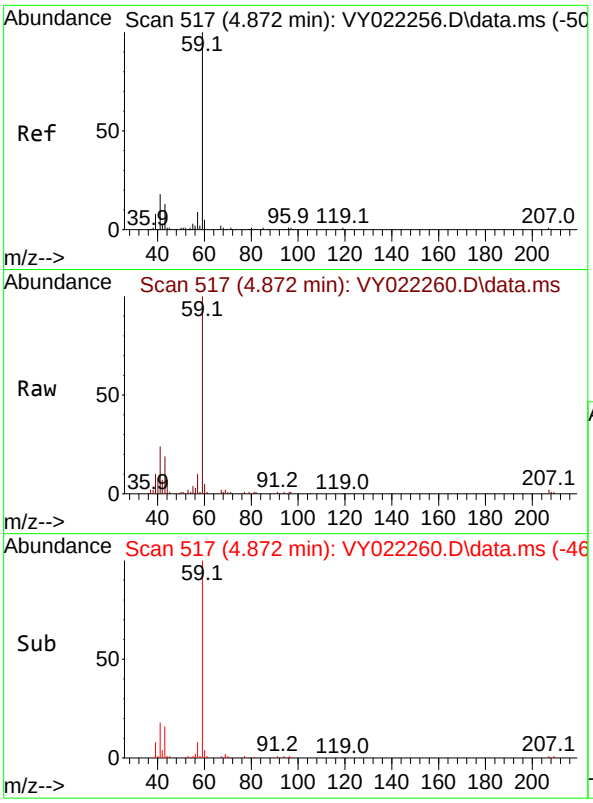


#10
Methyl Iodide
Concen: 49.606 ug/l
RT: 4.007 min Scan# 375
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion:142 Resp: 156397

Ion	Ratio	Lower	Upper
142	100		
127	44.8	35.7	53.5
141	14.4	11.1	16.7



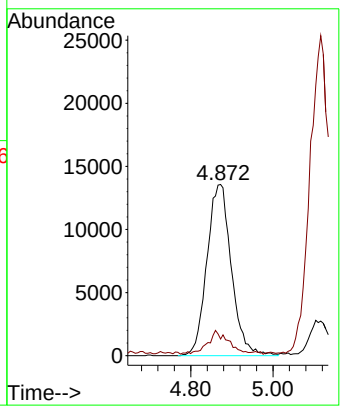


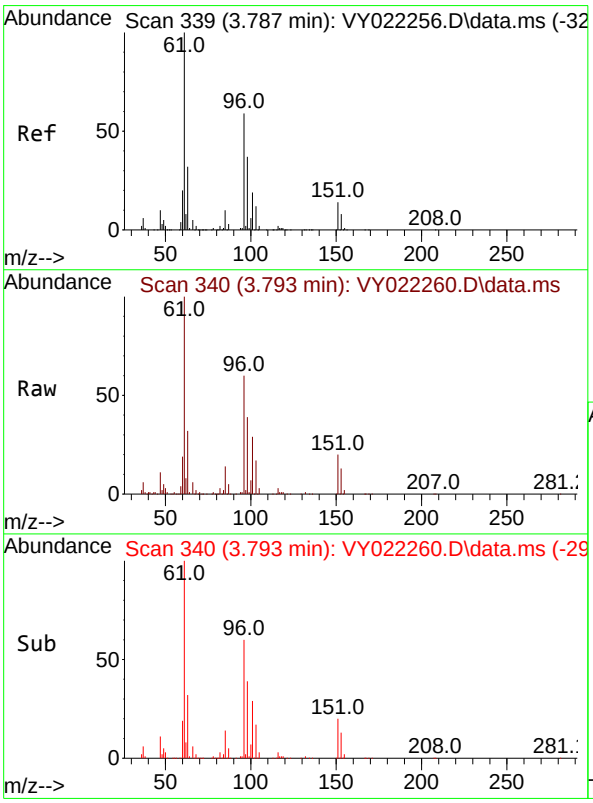
#11
Tert butyl alcohol
Concen: 265.144 ug/l
RT: 4.872 min Scan# 51
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

Tgt Ion: 59 Resp: 55922

Ion	Ratio	Lower	Upper
59	100		
57	10.7	0.0	0.0#

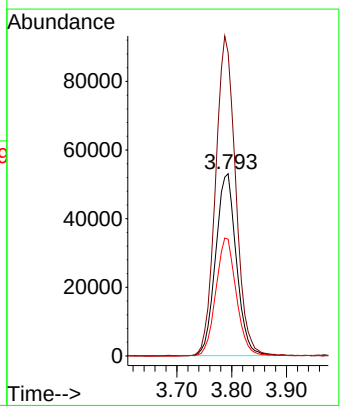


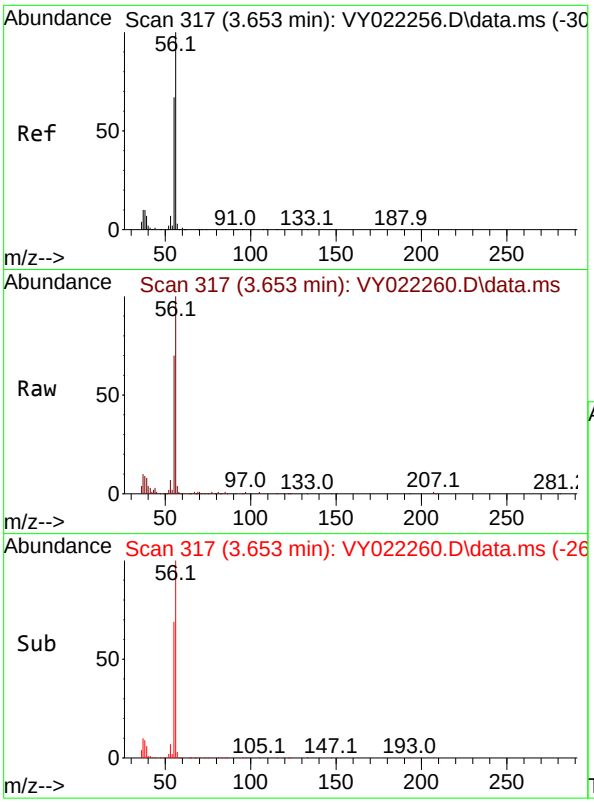


#12
1,1-Dichloroethene
Concen: 51.487 ug/l
RT: 3.793 min Scan# 340
Delta R.T. 0.006 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 96 Resp: 139180

Ion	Ratio	Lower	Upper
96	100		
61	166.8	134.9	202.3
98	64.1	49.9	74.9



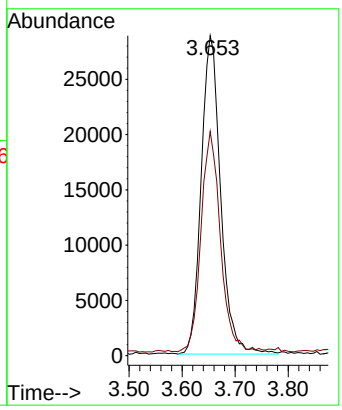


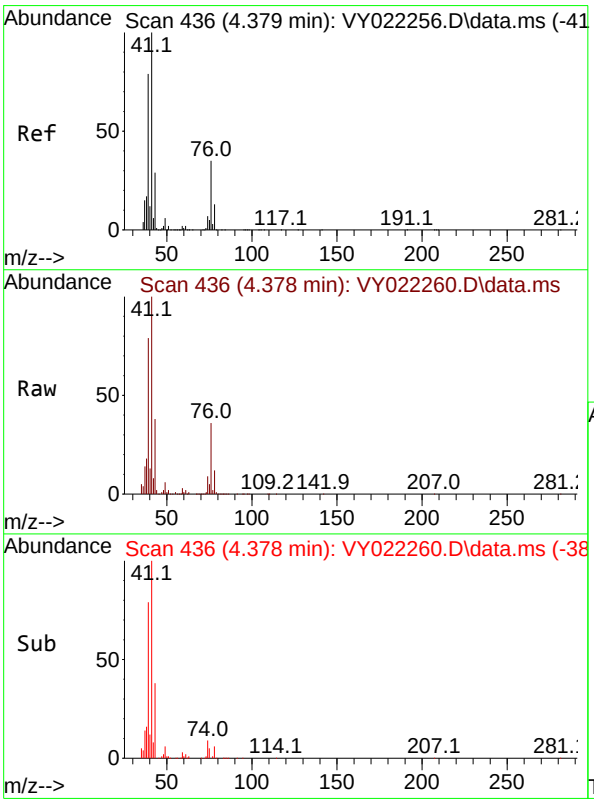
#13
Acrolein
Concen: 238.362 ug/l
RT: 3.653 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

Tgt Ion: 56 Resp: 73495

Ion	Ratio	Lower	Upper
56	100		
55	68.2	55.6	83.4

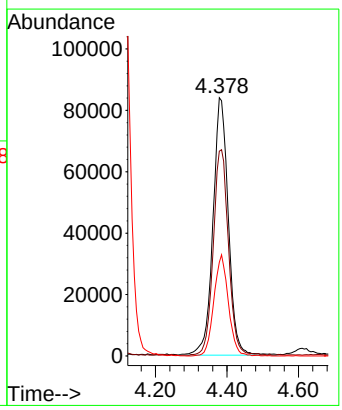


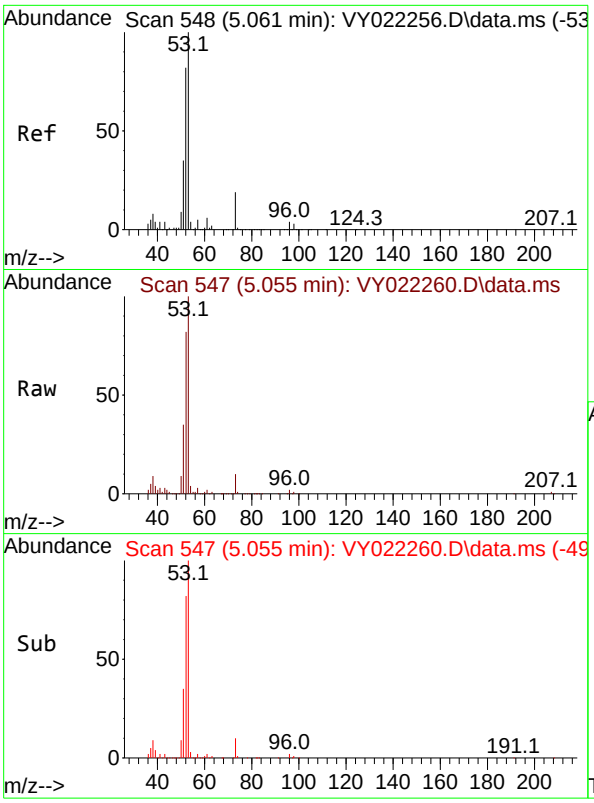


#14
Allyl chloride
Concen: 52.817 ug/l
RT: 4.378 min Scan# 436
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 41 Resp: 250342

Ion	Ratio	Lower	Upper
41	100		
39	78.9	63.4	95.0
76	37.0	29.5	44.3



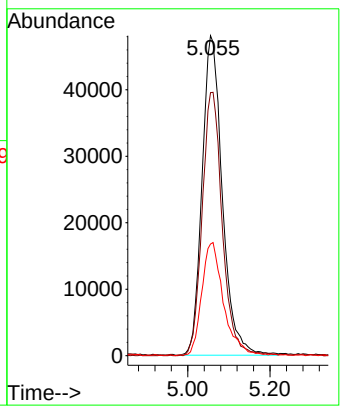


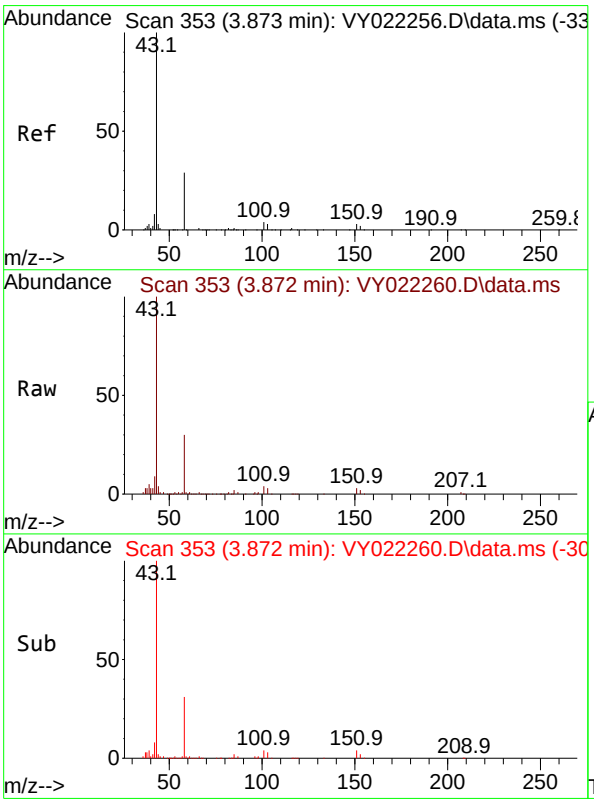
#15
Acrylonitrile
Concen: 265.134 ug/l
RT: 5.055 min Scan# 54
Delta R.T. -0.006 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

Tgt Ion: 53 Resp: 164507

Ion	Ratio	Lower	Upper
53	100		
52	81.9	66.1	99.1
51	38.2	30.0	45.0

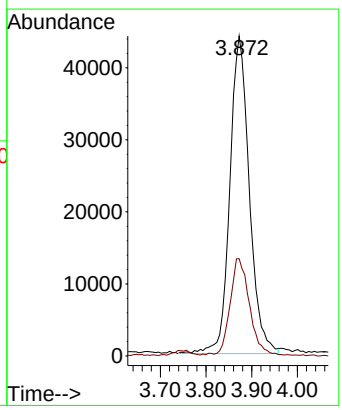


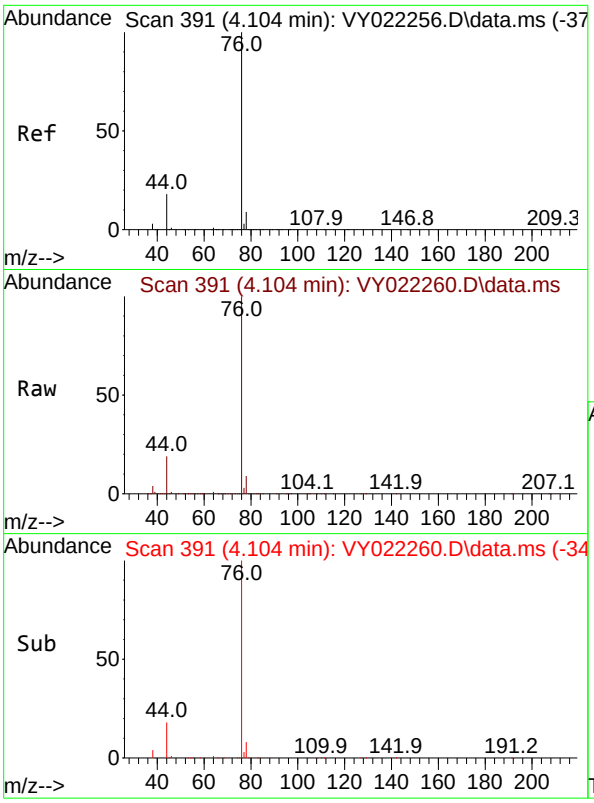


#16
Acetone
Concen: 252.660 ug/l
RT: 3.872 min Scan# 353
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 43 Resp: 130848

Ion	Ratio	Lower	Upper
43	100		
58	30.2	23.6	35.4



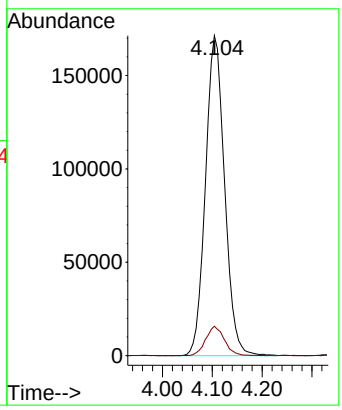


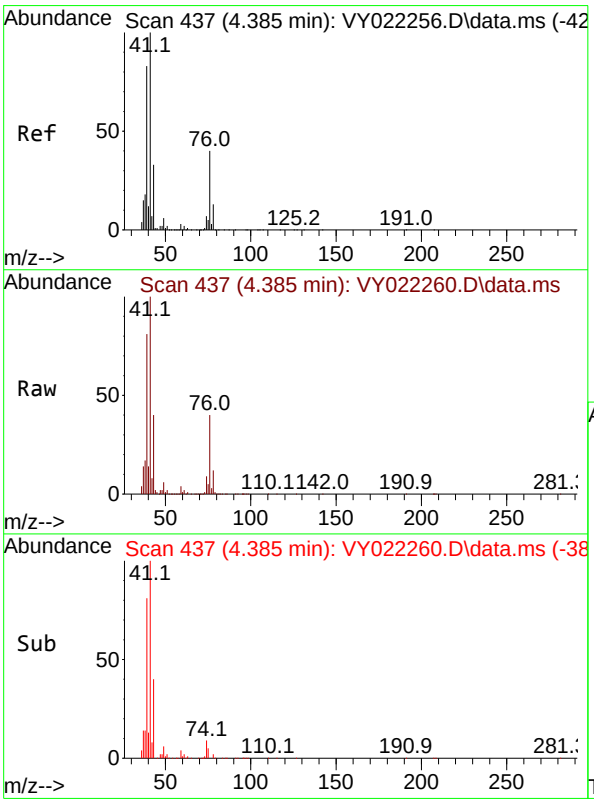
#17
Carbon Disulfide
Concen: 51.765 ug/l
RT: 4.104 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

Tgt Ion: 76 Resp: 456302

Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.2	10.8

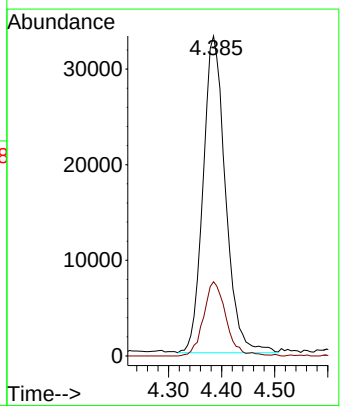


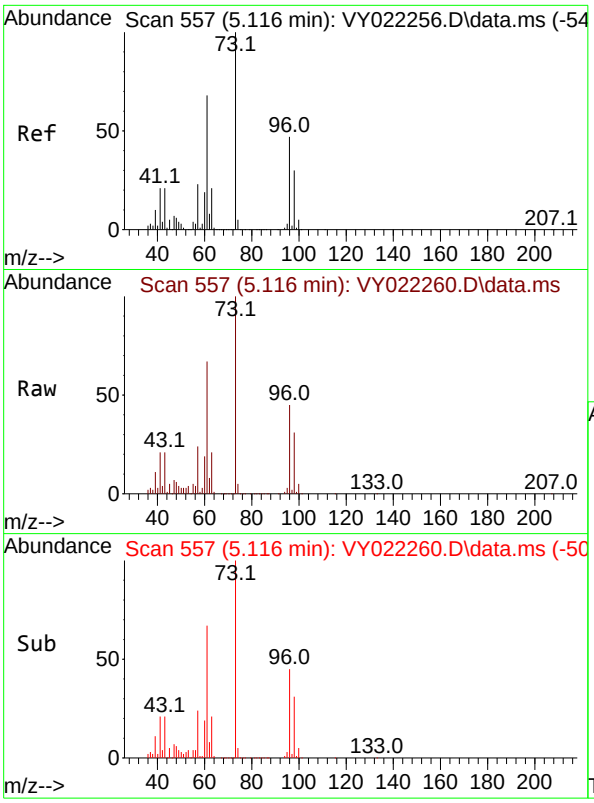


#18
Methyl Acetate
Concen: 59.461 ug/l
RT: 4.385 min Scan# 437
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 43 Resp: 97091

Ion	Ratio	Lower	Upper
43	100		
74	23.6	18.2	27.4



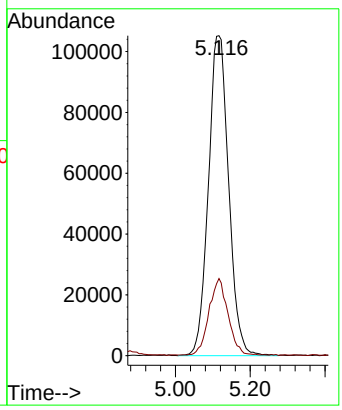


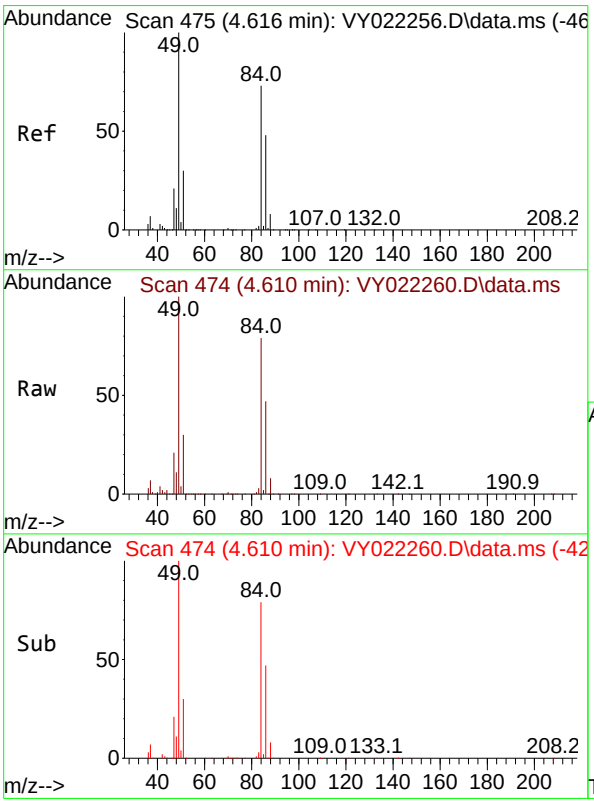
#19
Methyl tert-butyl Ether
Concen: 53.096 ug/l
RT: 5.116 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

Tgt Ion: 73 Resp: 395753

Ion	Ratio	Lower	Upper
73	100		
57	24.0	18.6	28.0

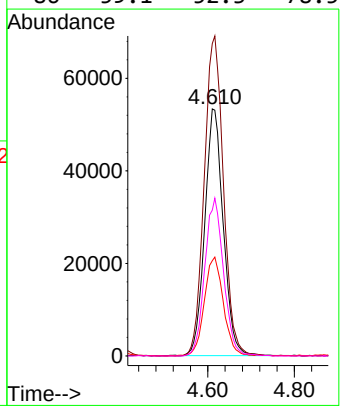


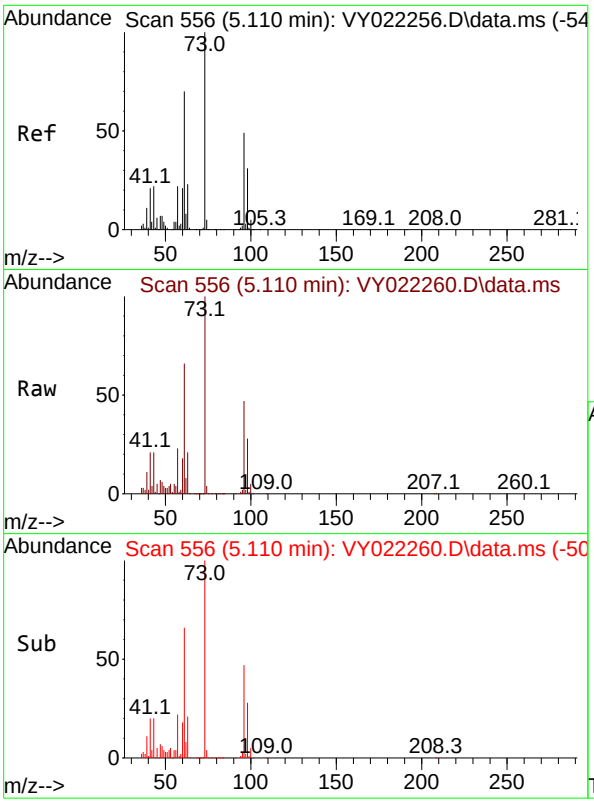


#20
Methylene Chloride
Concen: 47.298 ug/l
RT: 4.610 min Scan# 474
Delta R.T. -0.006 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 84 Resp: 158275

Ion	Ratio	Lower	Upper
84	100		
49	126.6	109.6	164.4
51	38.5	32.4	48.6
86	59.1	52.3	78.5



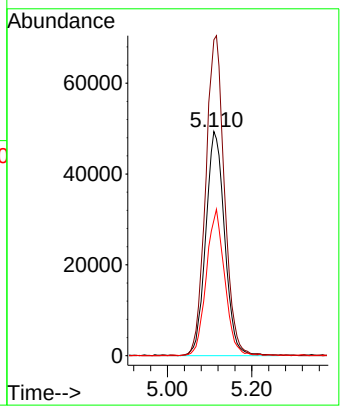


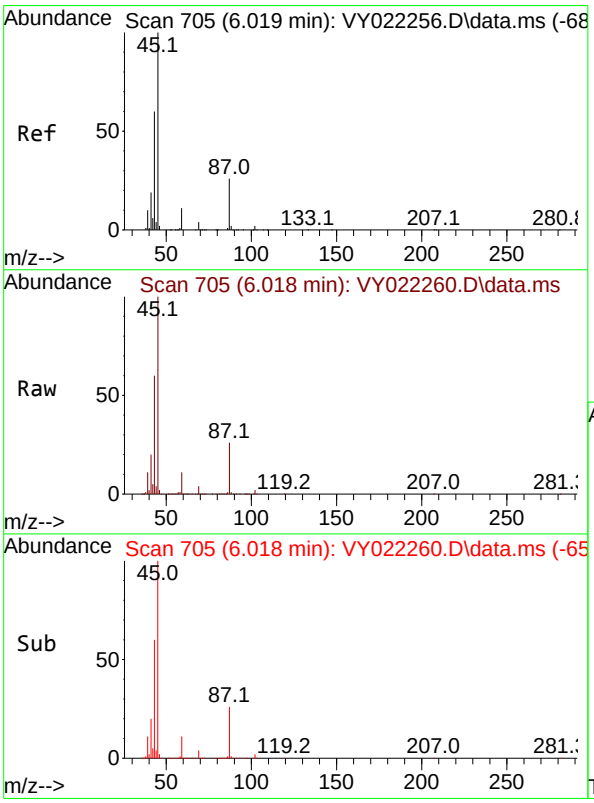
#21
trans-1,2-Dichloroethene
Concen: 51.552 ug/l
RT: 5.110 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

Tgt Ion: 96 Resp: 153819

Ion	Ratio	Lower	Upper
96	100		
61	140.9	113.4	170.0
98	60.2	50.9	76.3

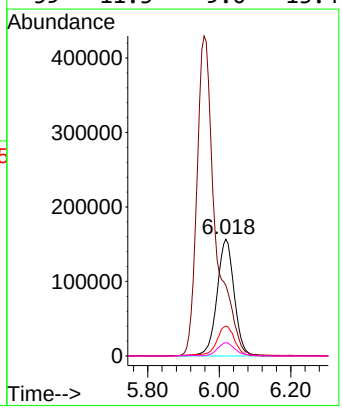


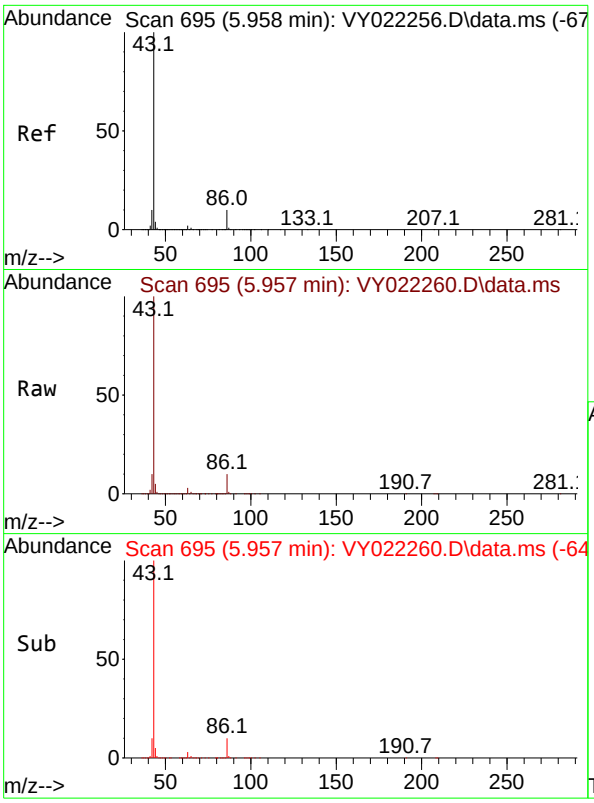


#22
Diisopropyl ether
Concen: 52.085 ug/l
RT: 6.018 min Scan# 705
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 45 Resp: 521343

Ion	Ratio	Lower	Upper
45	100		
43	59.9	48.2	72.2
87	25.6	21.4	32.0
59	11.3	9.0	13.4



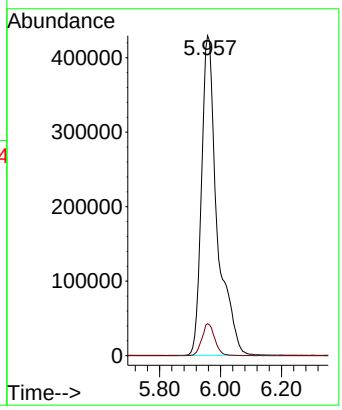


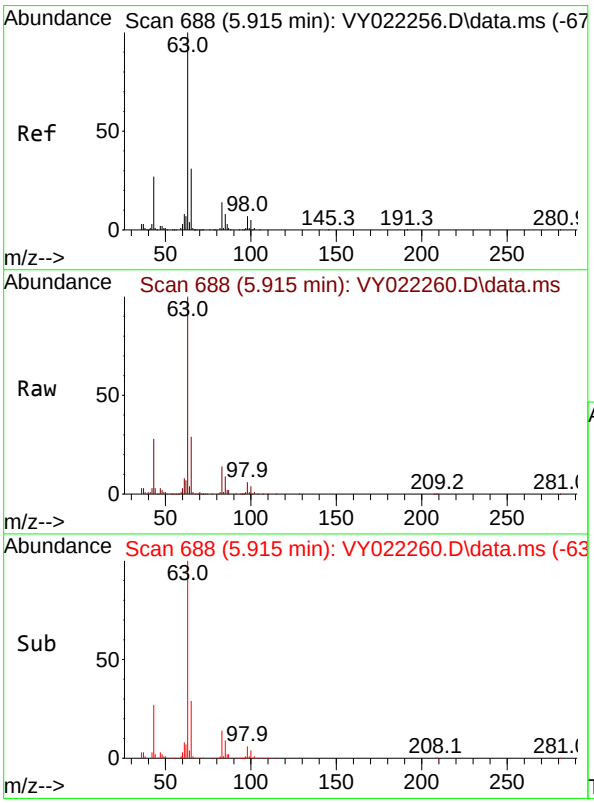
#23
Vinyl Acetate
Concen: 253.098 ug/l
RT: 5.957 min Scan# 6
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

Tgt Ion: 43 Resp: 1530507

Ion	Ratio	Lower	Upper
43	100		
86	10.0	7.8	11.8

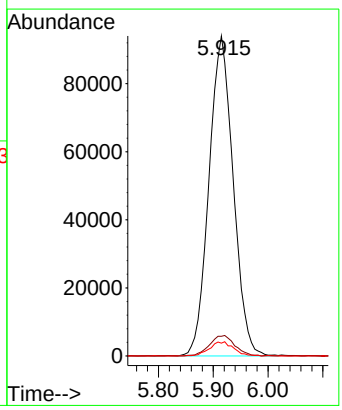


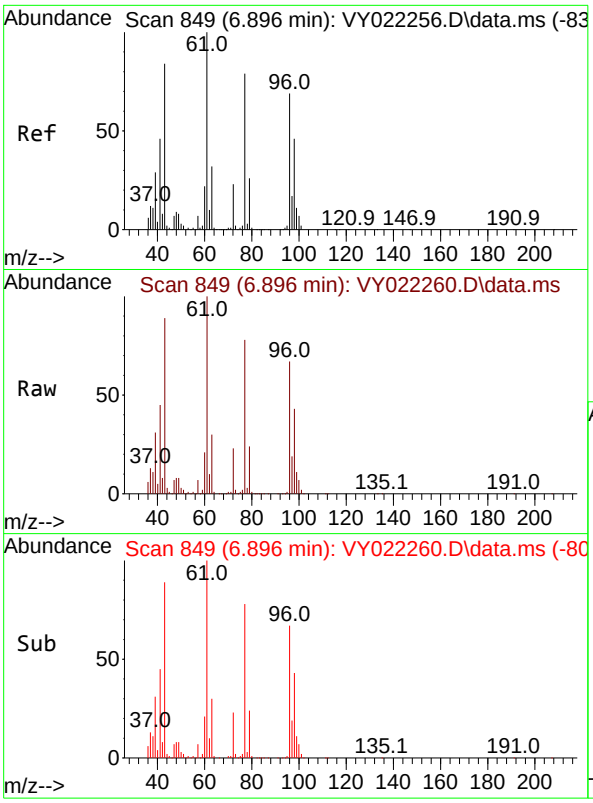


#24
1,1-Dichloroethane
Concen: 51.668 ug/l
RT: 5.915 min Scan# 688
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 63 Resp: 288933

Ion	Ratio	Lower	Upper
63	100		
98	6.1	3.5	10.5
100	4.0	2.4	7.2



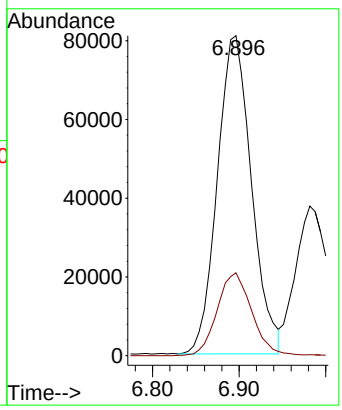


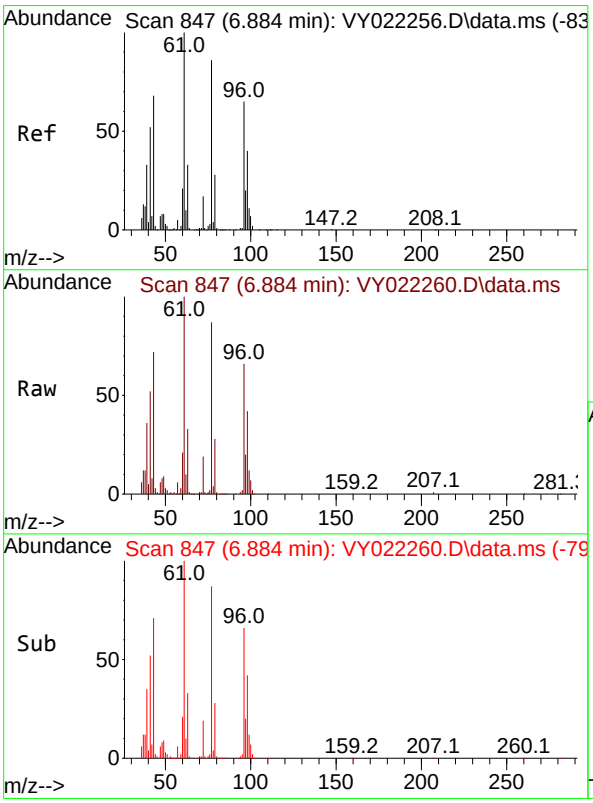
#25
2-Butanone
Concen: 255.929 ug/l
RT: 6.896 min Scan# 84
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

Tgt Ion: 43 Resp: 221702

Ion	Ratio	Lower	Upper
43	100		
72	25.9	22.1	33.1

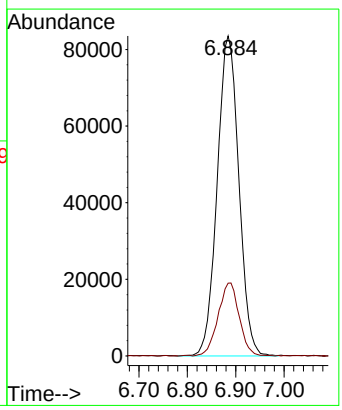


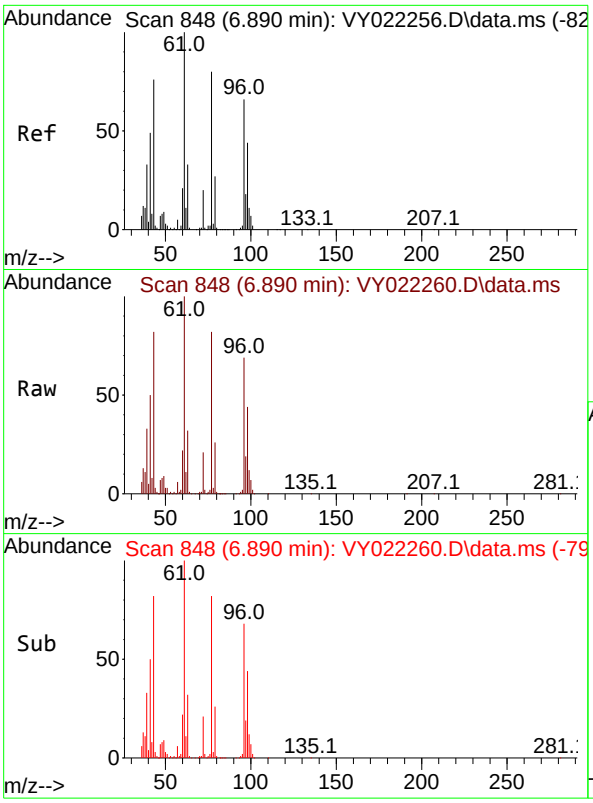


#26
2,2-Dichloropropane
Concen: 52.191 ug/l
RT: 6.884 min Scan# 847
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 77 Resp: 259587

Ion	Ratio	Lower	Upper
77	100		
97	22.3	11.2	33.5



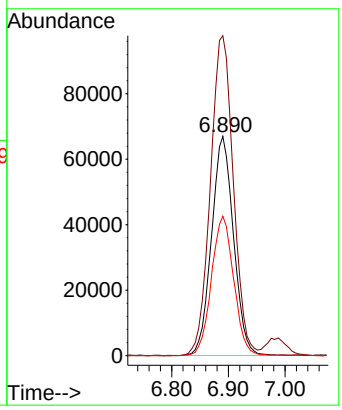


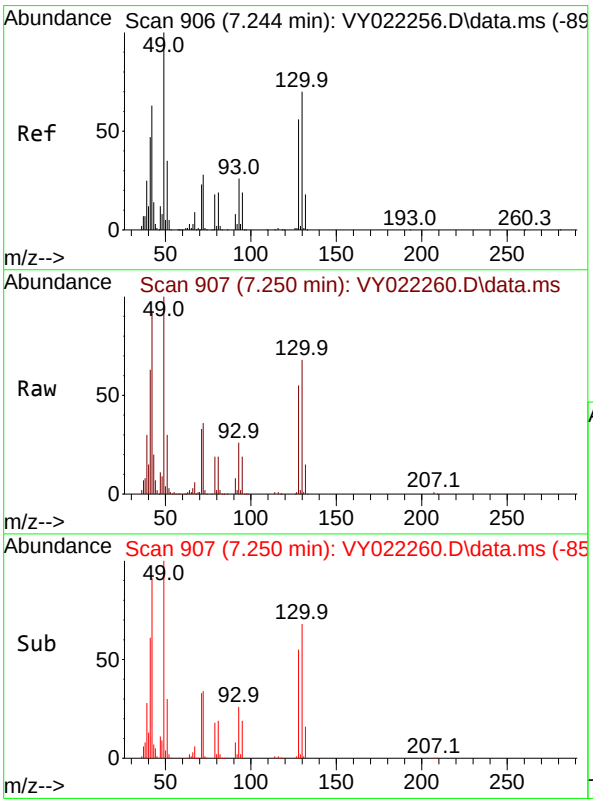
#27
cis-1,2-Dichloroethene
Concen: 52.479 ug/l
RT: 6.890 min Scan# 84
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

Tgt Ion: 96 Resp: 180695

Ion	Ratio	Lower	Upper
96	100		
61	151.9	0.0	302.6
98	64.5	0.0	128.8

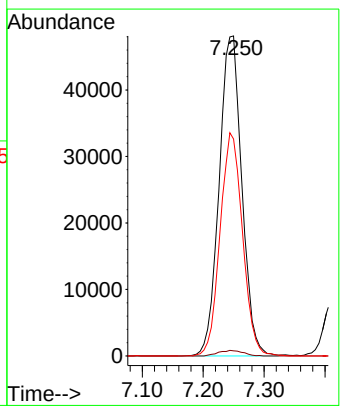


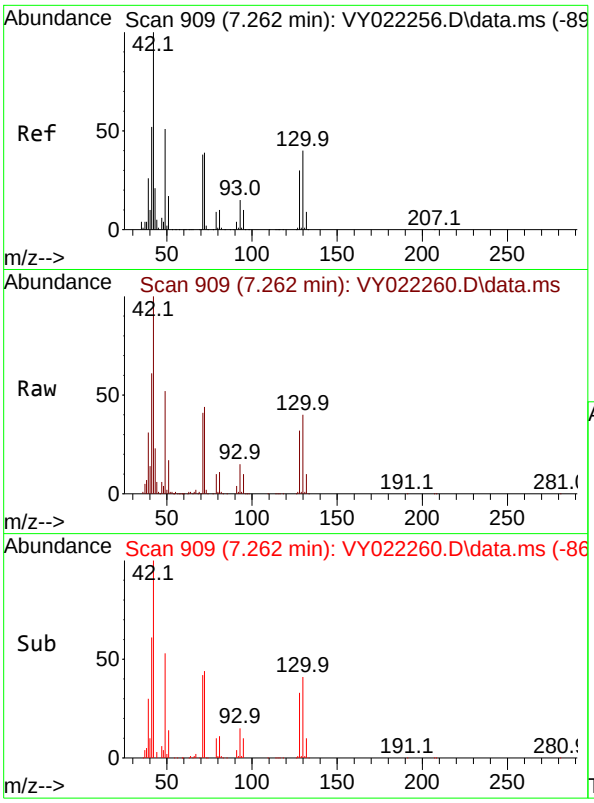


#28
Bromochloromethane
Concen: 52.305 ug/l
RT: 7.250 min Scan# 907
Delta R.T. 0.006 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 49 Resp: 124761

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	3.6
130	68.8	54.7	82.1



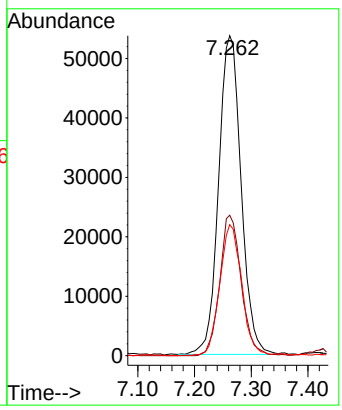


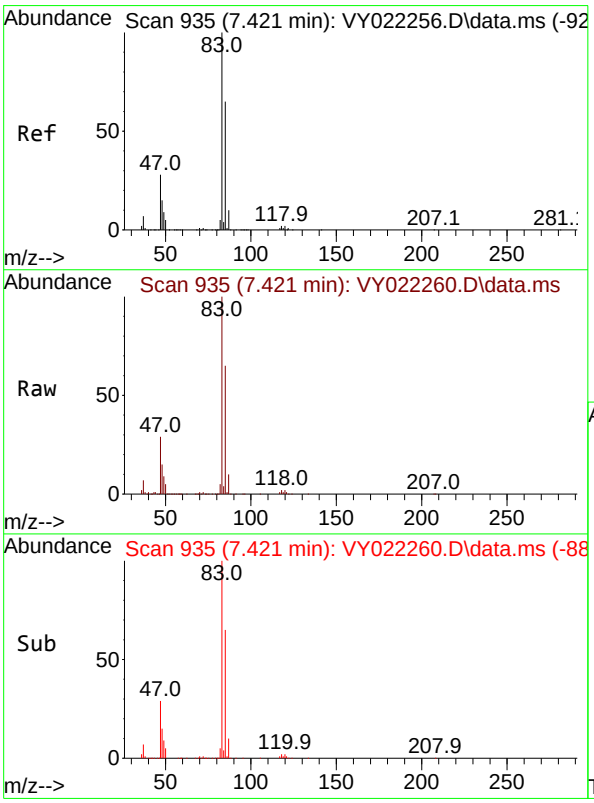
#29
Tetrahydrofuran
Concen: 264.847 ug/l
RT: 7.262 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

Tgt Ion: 42 Resp: 147603

Ion	Ratio	Lower	Upper
42	100		
72	42.1	33.8	50.6
71	40.1	31.5	47.3

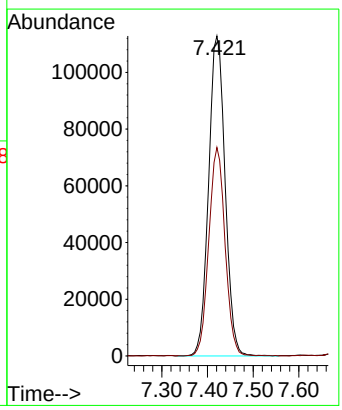


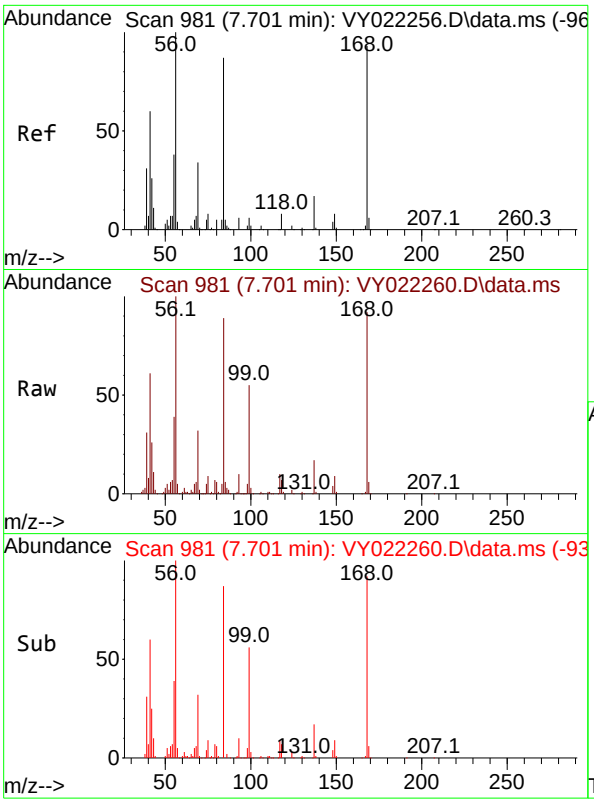


#30
Chloroform
Concen: 52.810 ug/l
RT: 7.421 min Scan# 935
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 83 Resp: 283264

Ion	Ratio	Lower	Upper
83	100		
85	65.1	51.8	77.8



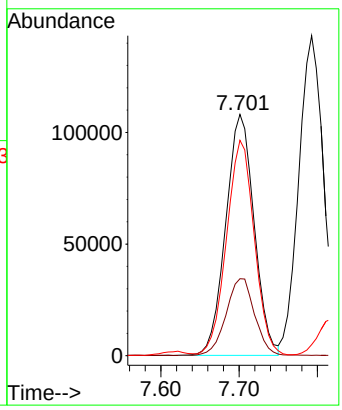


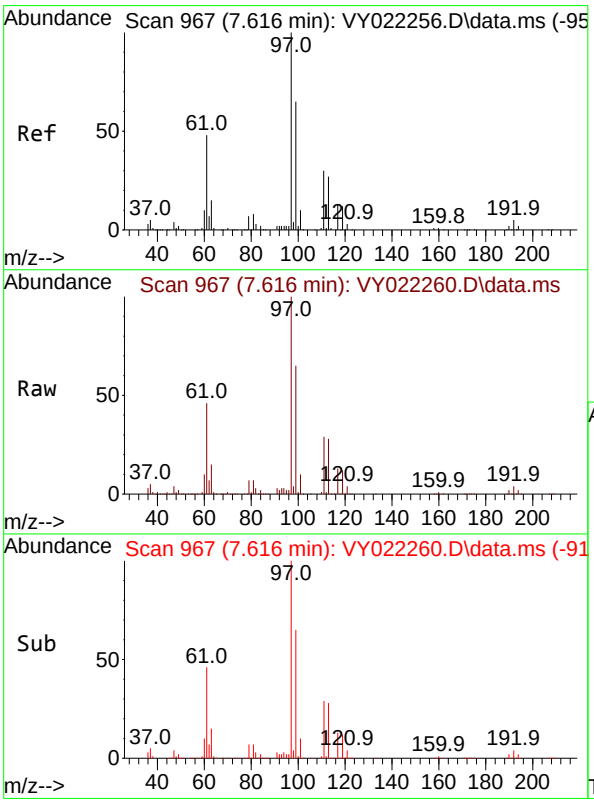
#31
Cyclohexane
Concen: 48.673 ug/l
RT: 7.701 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

Tgt Ion: 56 Resp: 271949

Ion	Ratio	Lower	Upper
56	100		
69	31.8	27.4	41.2
84	87.5	70.0	105.0

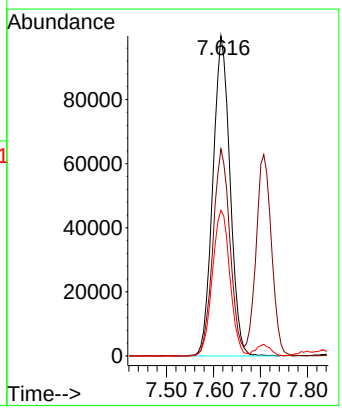


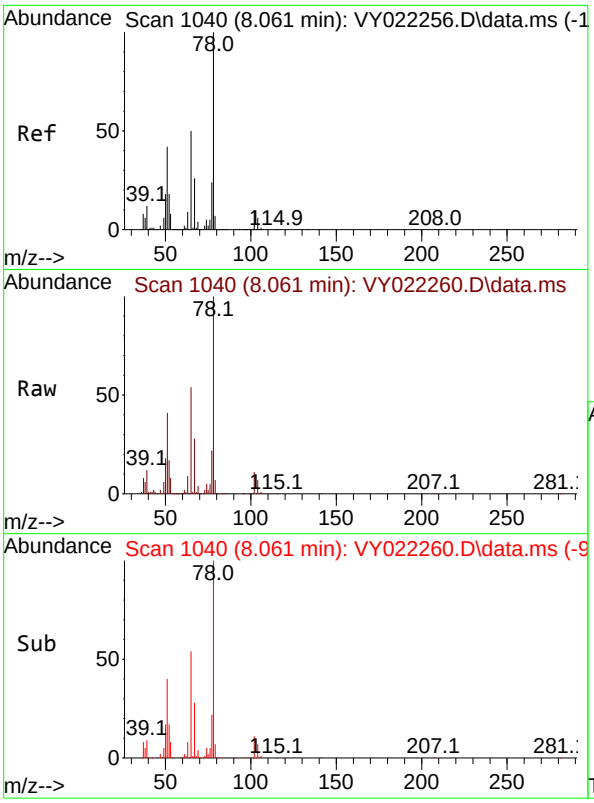


#32
1,1,1-Trichloroethane
Concen: 51.523 ug/l
RT: 7.616 min Scan# 967
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 97 Resp: 253549

Ion	Ratio	Lower	Upper
97	100		
99	64.3	51.4	77.0
61	46.6	38.1	57.1



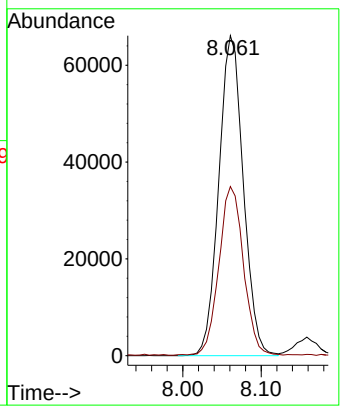


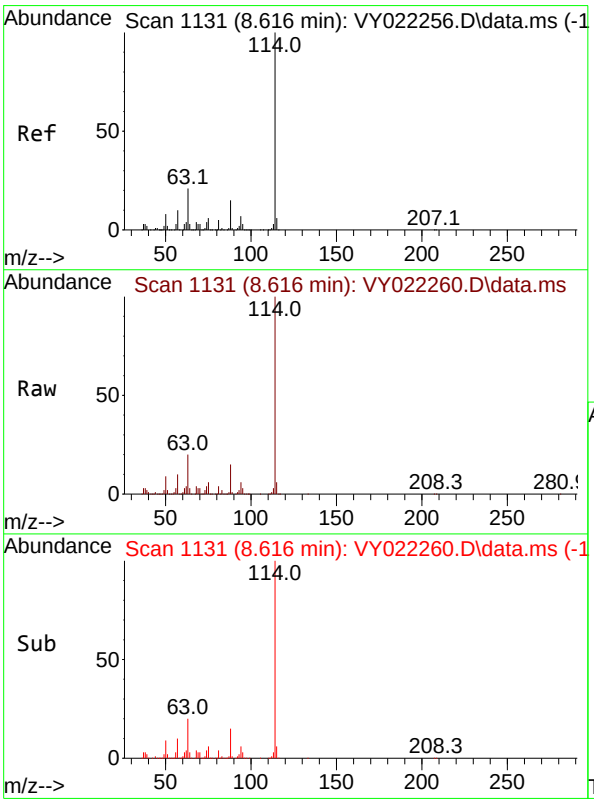
#33
1,2-Dichloroethane-d4
Concen: 52.104 ug/l
RT: 8.061 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

Tgt Ion: 65 Resp: 143909

Ion	Ratio	Lower	Upper
65	100		
67	52.8	0.0	104.6

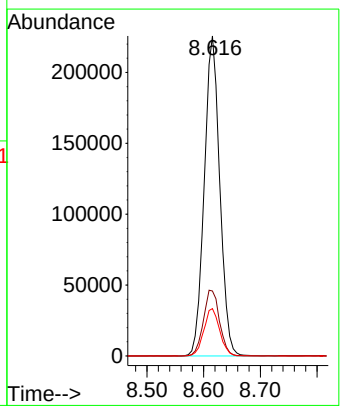


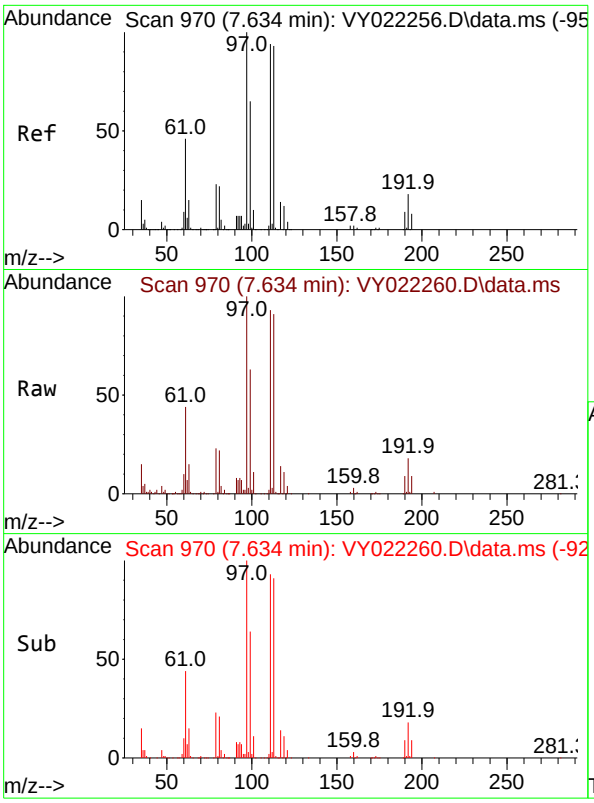


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion:114 Resp: 428969

Ion	Ratio	Lower	Upper
114	100		
63	20.3	0.0	41.0
88	14.8	0.0	29.4



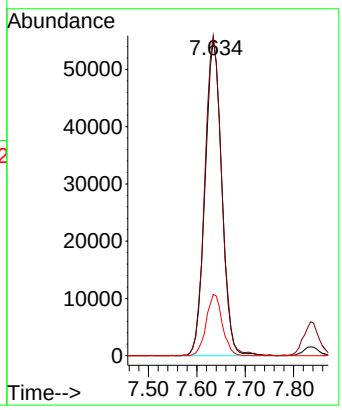


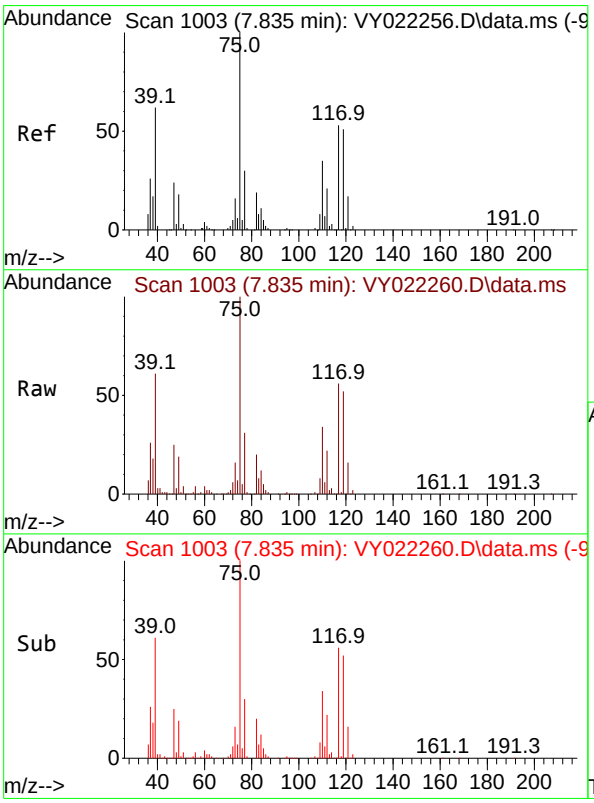
#35
Dibromofluoromethane
Concen: 51.658 ug/l
RT: 7.634 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

Tgt Ion:113 Resp: 132263

Ion	Ratio	Lower	Upper
113	100		
111	102.1	82.6	123.8
192	18.7	15.2	22.8

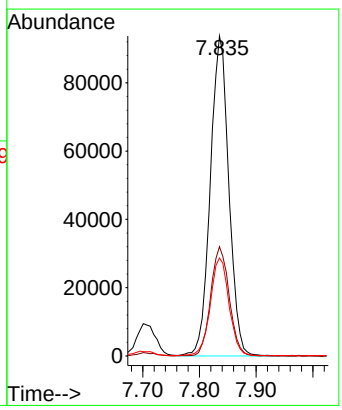


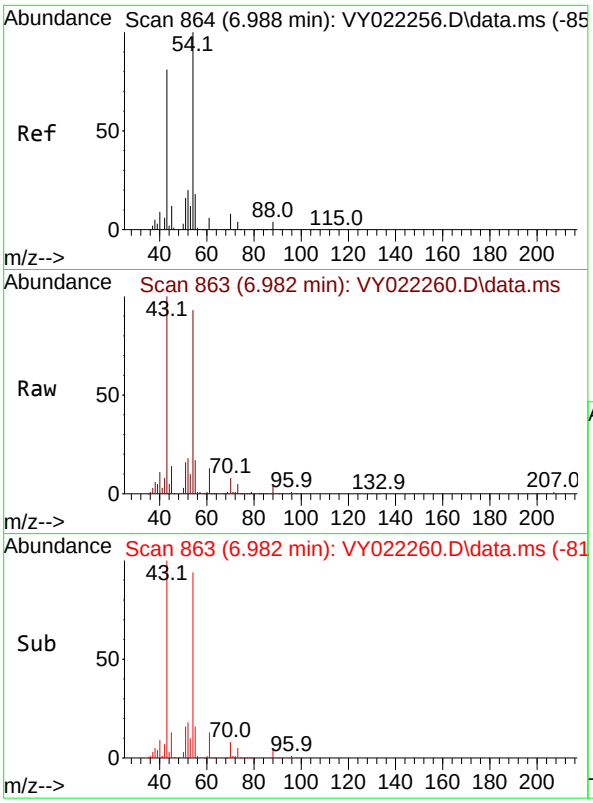


#36
1,1-Dichloropropene
Concen: 50.457 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 75 Resp: 212786

Ion	Ratio	Lower	Upper
75	100		
110	34.0	16.6	49.8
77	30.7	24.6	37.0



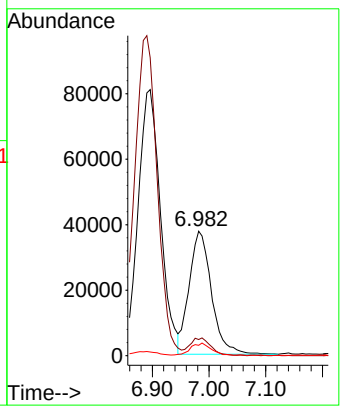


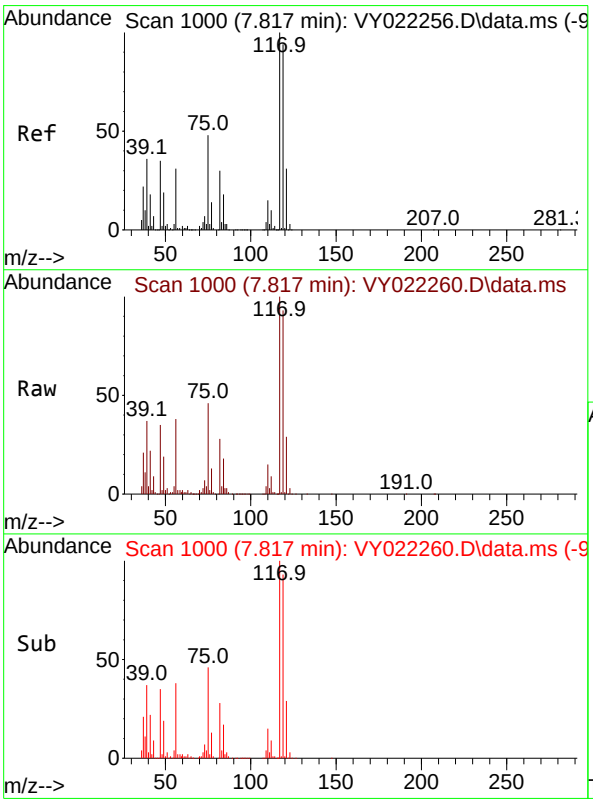
#37
Ethyl Acetate
Concen: 50.633 ug/l
RT: 6.982 min Scan# 8
Delta R.T. -0.006 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

Tgt Ion: 43 Resp: 102740

Ion	Ratio	Lower	Upper
43	100		
61	13.9	10.2	15.2
70	8.8	7.6	11.4

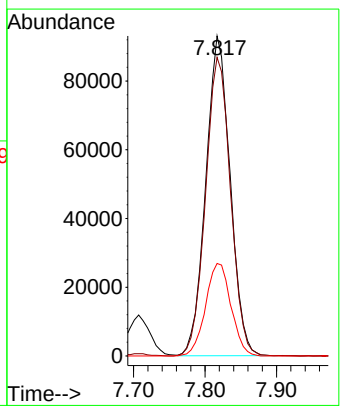


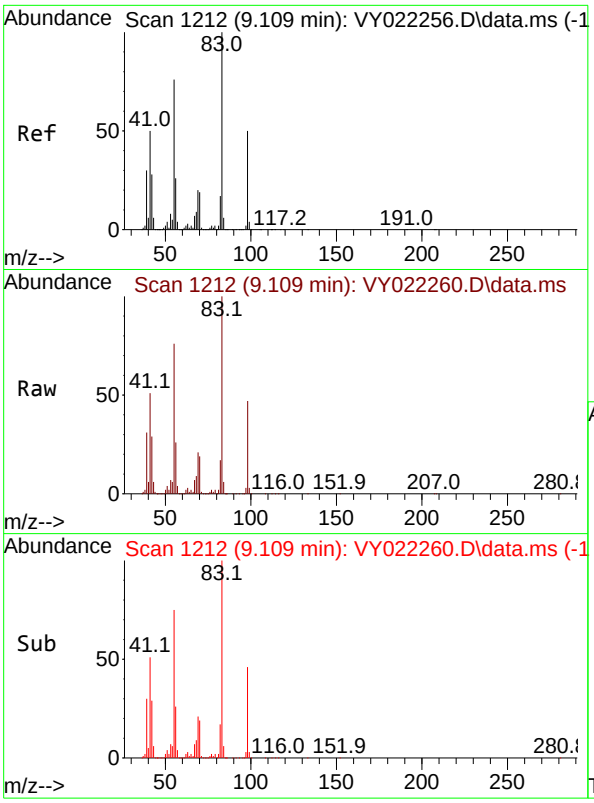


#38
Carbon Tetrachloride
Concen: 50.543 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion:117 Resp: 220636

Ion	Ratio	Lower	Upper
117	100		
119	93.3	75.3	112.9
121	28.9	24.7	37.1



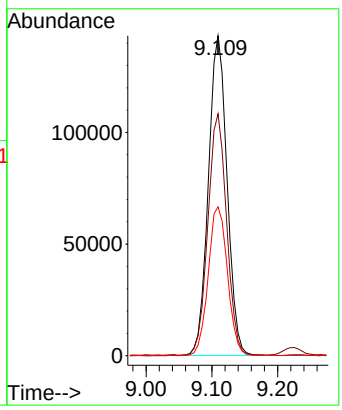


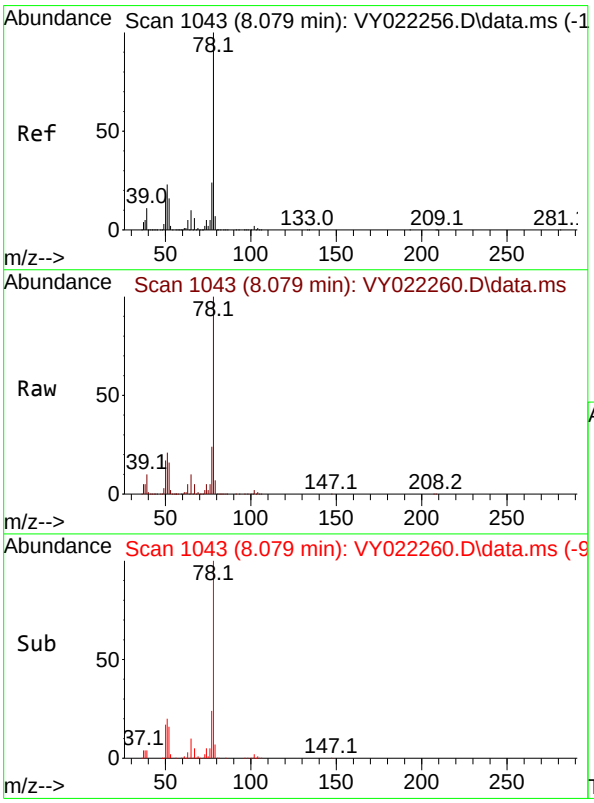
#39
Methylcyclohexane
Concen: 50.015 ug/l
RT: 9.109 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

Tgt Ion: 83 Resp: 283373

Ion	Ratio	Lower	Upper
83	100		
55	75.5	60.6	90.8
98	46.5	40.0	60.0

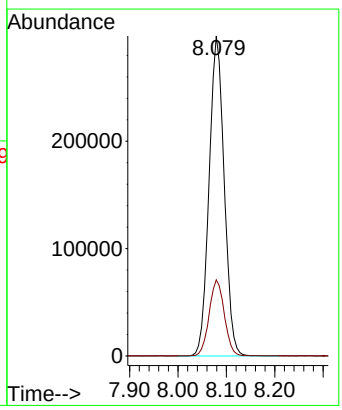


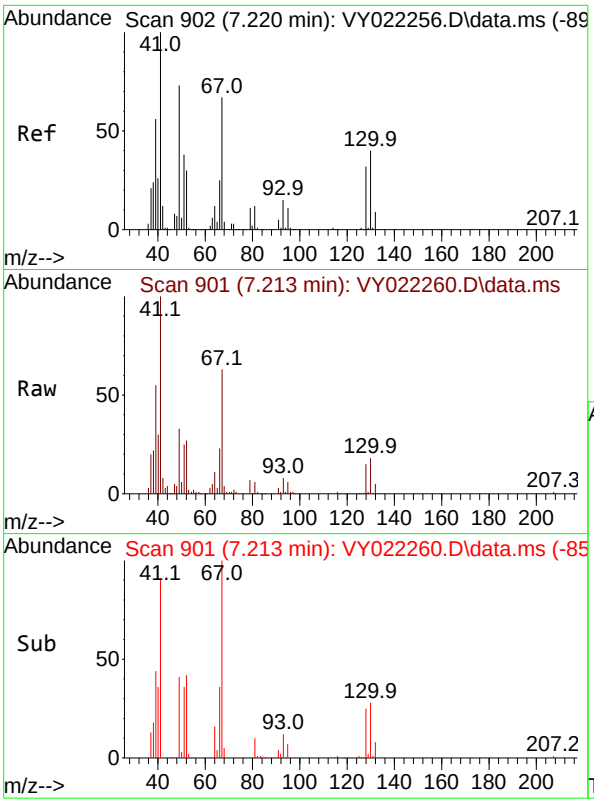


#40
Benzene
Concen: 51.696 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 78 Resp: 646289

Ion	Ratio	Lower	Upper
78	100		
77	23.8	18.9	28.3



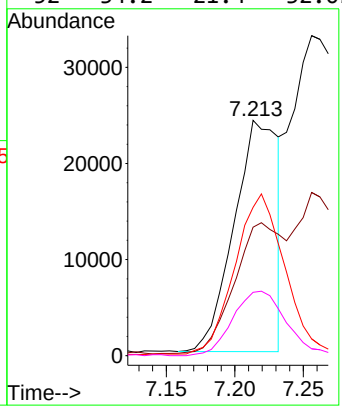


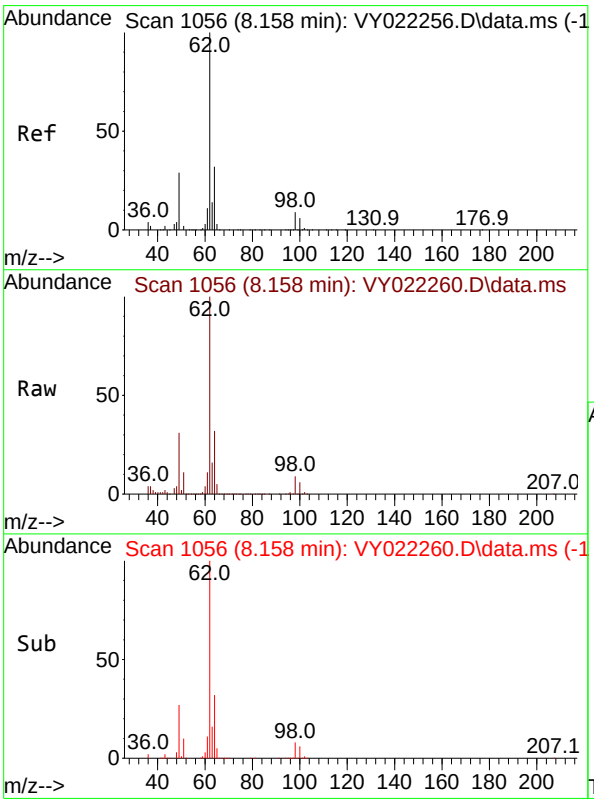
#41
Methacrylonitrile
Concen: 39.891 ug/l
RT: 7.213 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

Tgt Ion: 41 Resp: 53692

Ion	Ratio	Lower	Upper
41	100		
39	64.6	39.1	58.7#
67	78.4	47.1	70.7#
52	34.2	21.4	32.0#

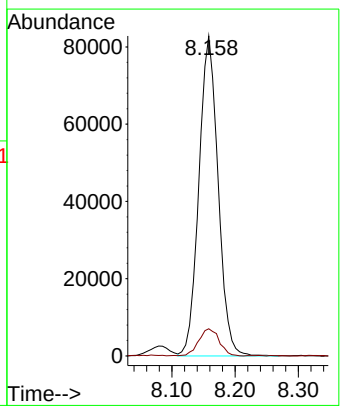


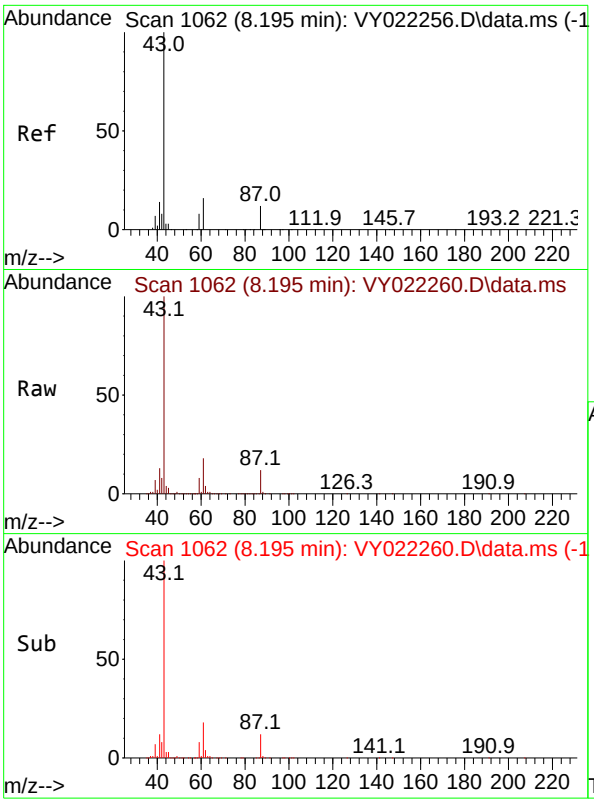


#42
1,2-Dichloroethane
Concen: 51.834 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 62 Resp: 175241

Ion	Ratio	Lower	Upper
62	100		
98	9.1	0.0	18.4



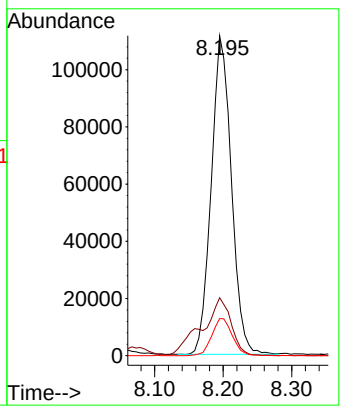


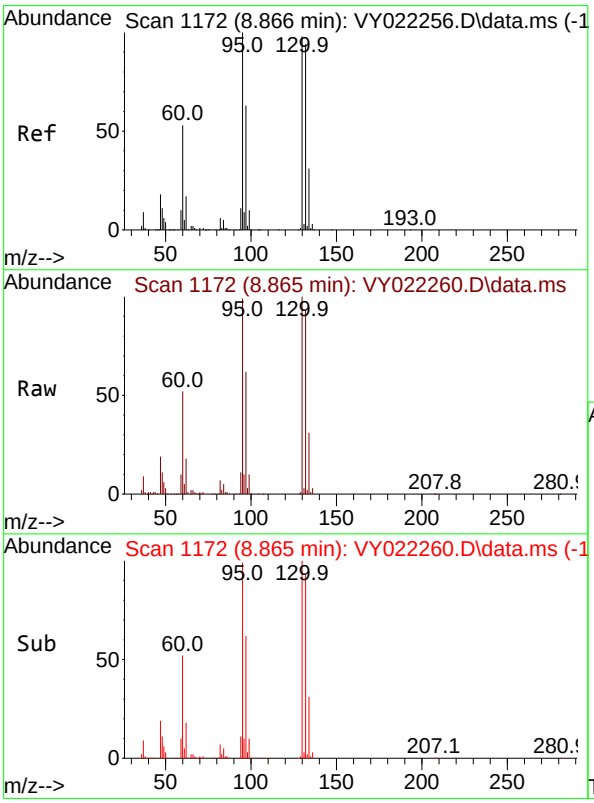
#43
Isopropyl Acetate
Concen: 51.415 ug/l
RT: 8.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

Tgt Ion: 43 Resp: 227521

Ion	Ratio	Lower	Upper
43	100		
61	26.5	15.1	22.7#
87	11.9	9.7	14.5

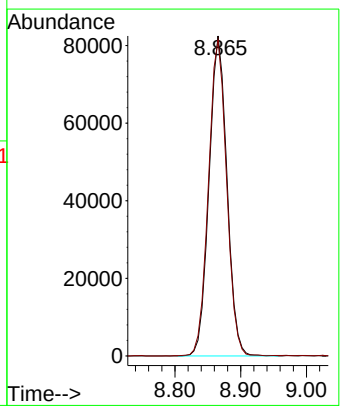


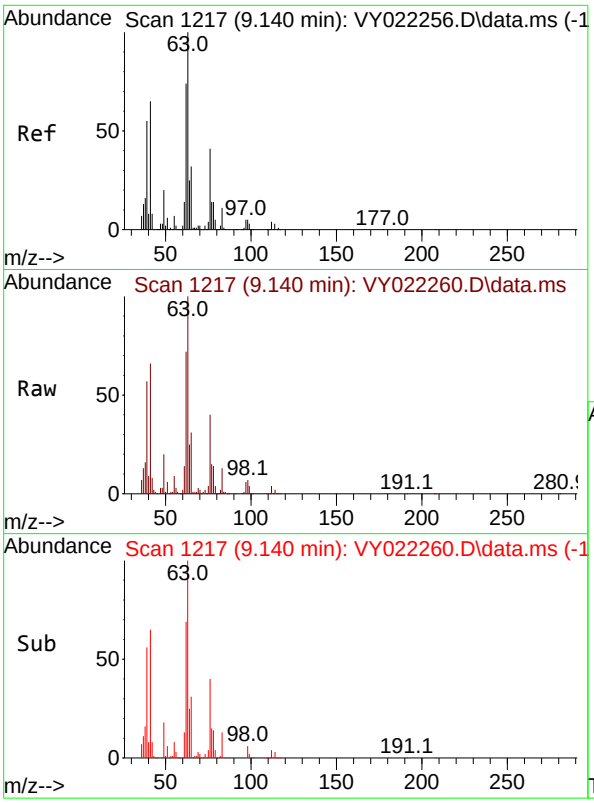


#44
Trichloroethene
Concen: 50.335 ug/l
RT: 8.865 min Scan# 1172
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion:130 Resp: 156468

Ion	Ratio	Lower	Upper
130	100		
95	98.6	0.0	204.8



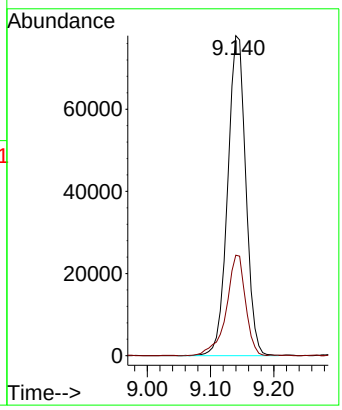


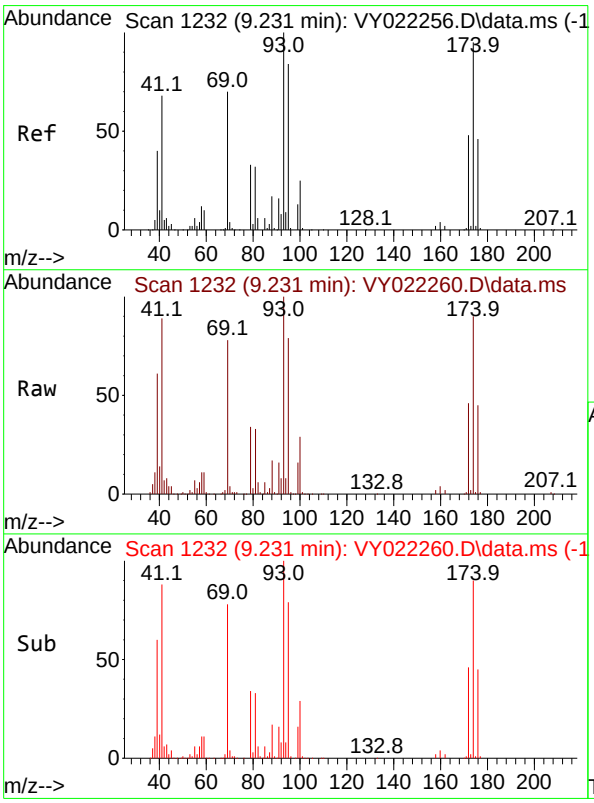
#45
1,2-Dichloropropane
Concen: 51.417 ug/l
RT: 9.140 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

Tgt Ion: 63 Resp: 154975

Ion	Ratio	Lower	Upper
63	100		
65	31.4	25.7	38.5

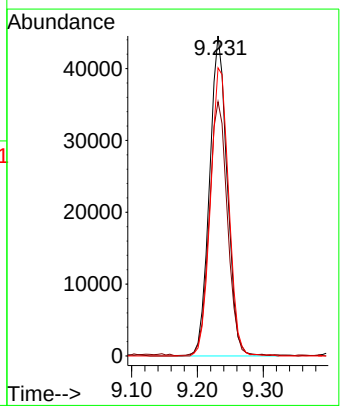


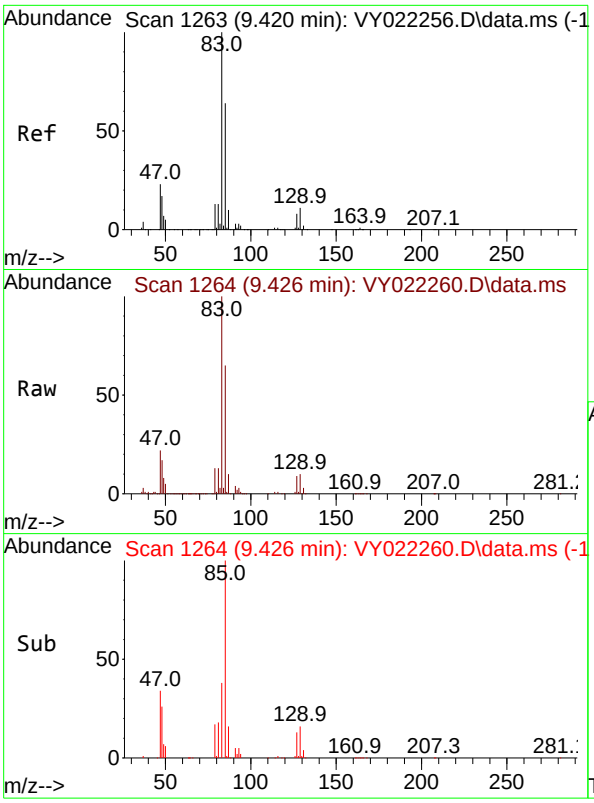


#46
Dibromomethane
Concen: 51.423 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 93 Resp: 83597

Ion	Ratio	Lower	Upper
93	100		
95	81.4	65.2	97.8
174	92.4	74.3	111.5



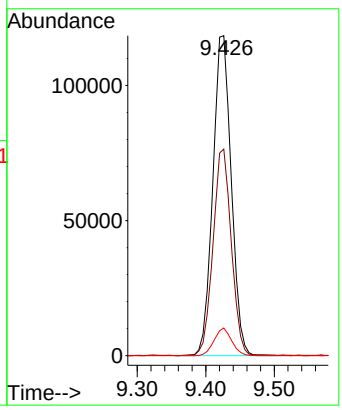


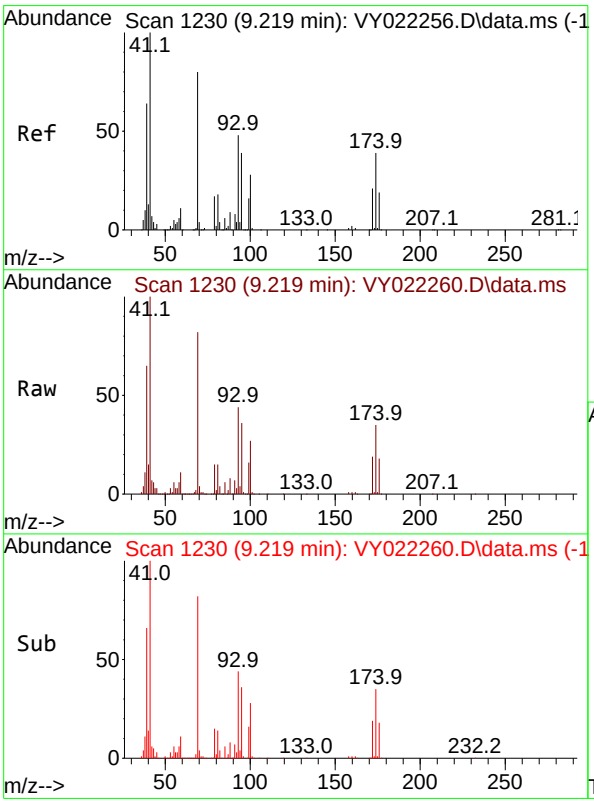
#47
Bromodichloromethane
Concen: 52.508 ug/l
RT: 9.426 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

Tgt Ion: 83 Resp: 221446

Ion	Ratio	Lower	Upper
83	100		
85	64.5	51.1	76.7
127	8.6	6.6	10.0

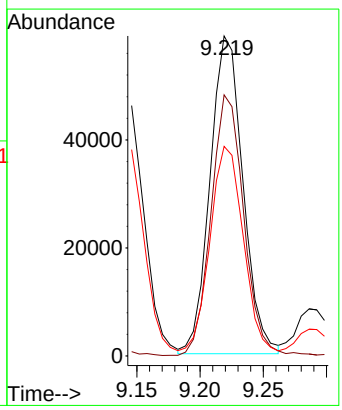


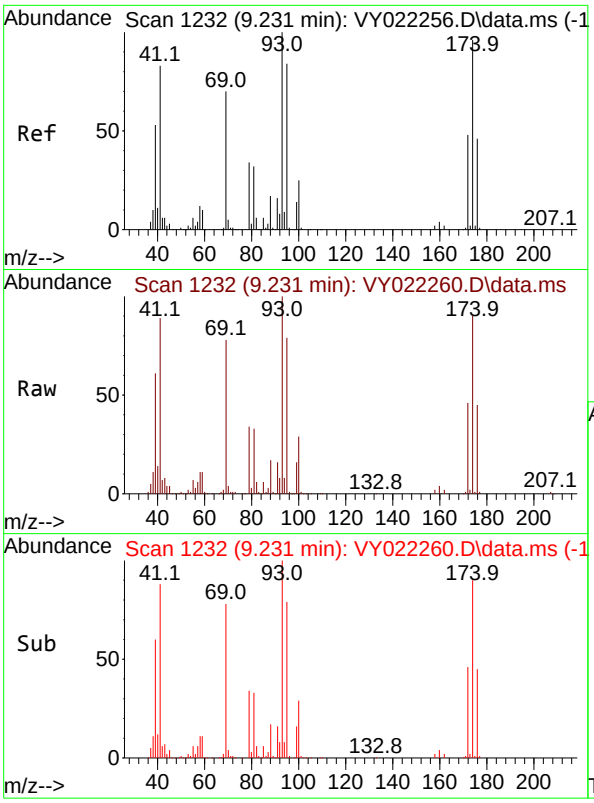


#48
Methyl methacrylate
Concen: 51.357 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 41 Resp: 106283

Ion	Ratio	Lower	Upper
41	100		
69	81.5	63.5	95.3
39	64.6	50.8	76.2



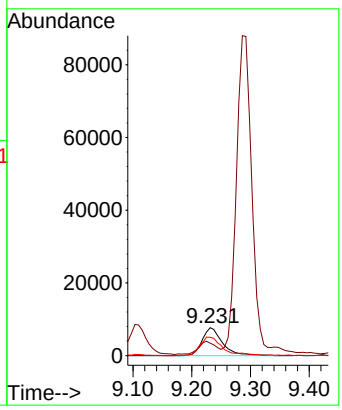


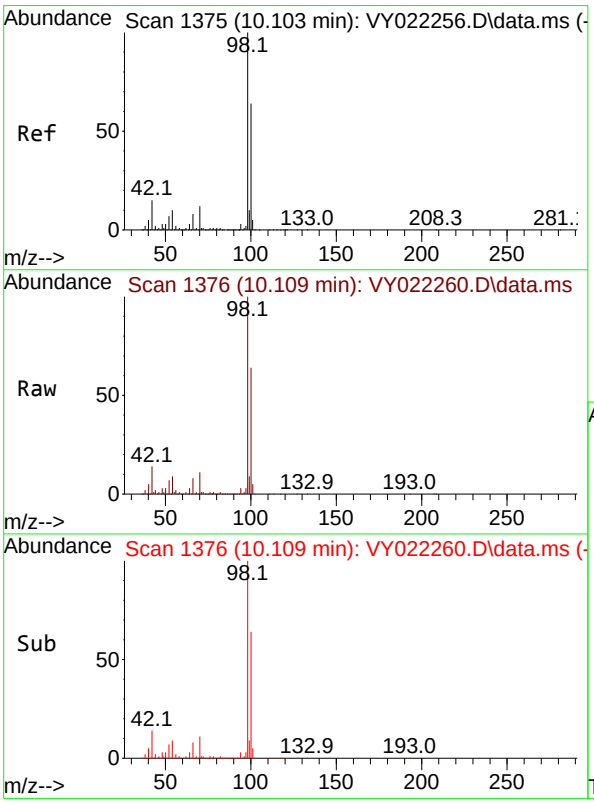
#49
1,4-Dioxane
Concen: 1008.479 ug/l
RT: 9.231 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

Tgt Ion: 88 Resp: 18521

Ion	Ratio	Lower	Upper
88	100		
43	40.7	28.5	42.7
58	74.5	61.4	92.2

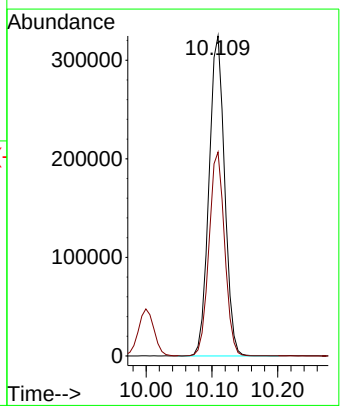


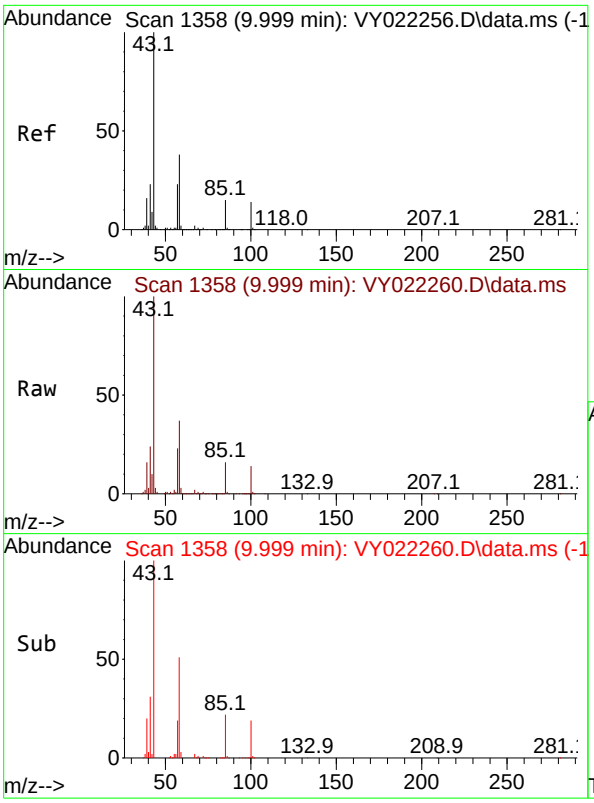


#50
Toluene-d8
Concen: 51.229 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 98 Resp: 537188

Ion	Ratio	Lower	Upper
98	100		
100	63.6	51.8	77.8



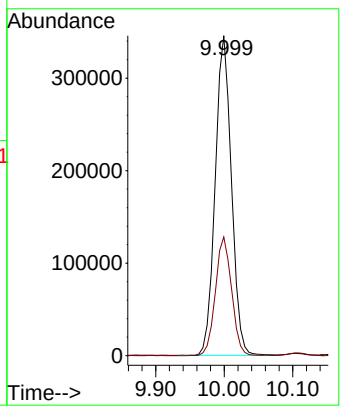


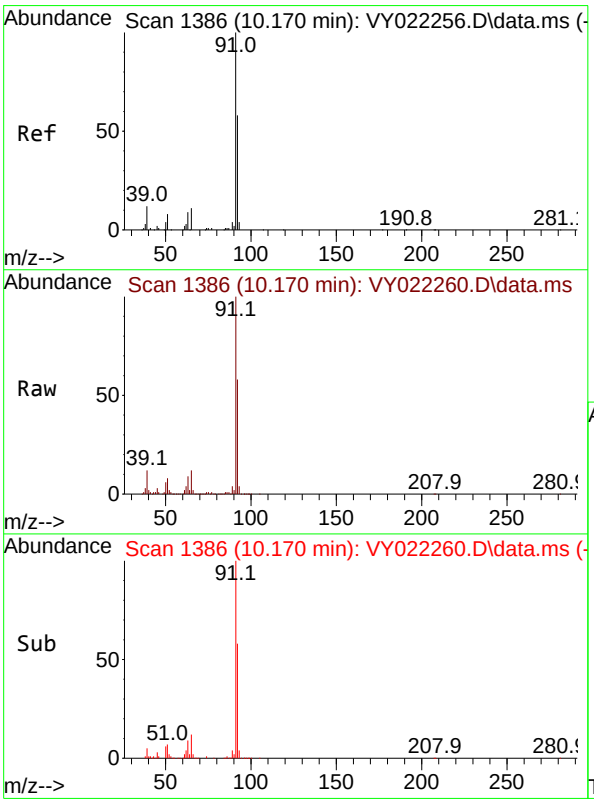
#51
4-Methyl-2-Pentanone
Concen: 261.463 ug/l
RT: 9.999 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

Tgt Ion: 43 Resp: 567722

Ion	Ratio	Lower	Upper
43	100		
58	37.1	29.4	44.2

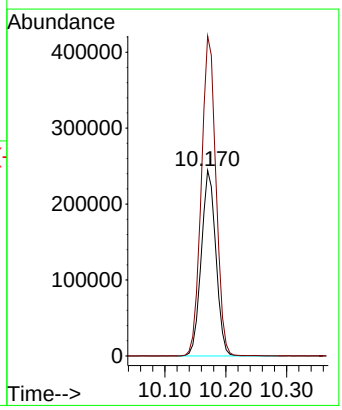


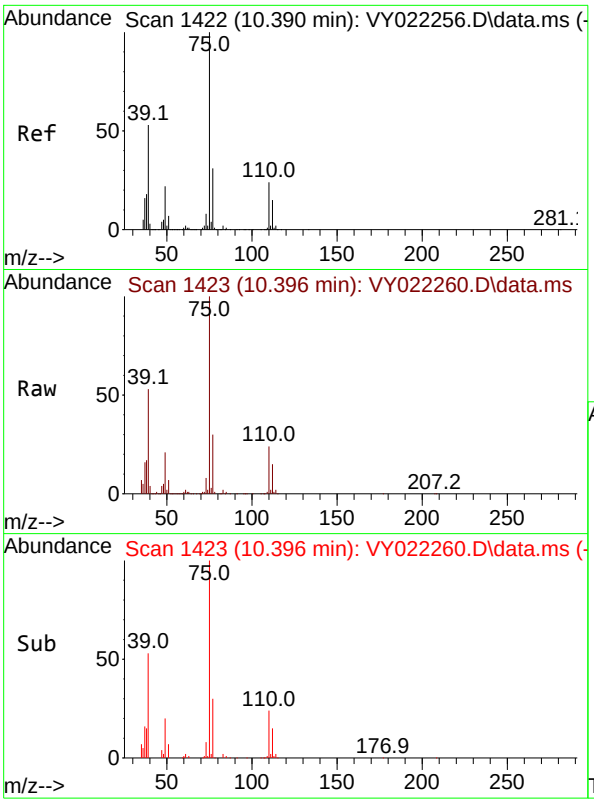


#52
Toluene
Concen: 51.337 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 92 Resp: 406420

Ion	Ratio	Lower	Upper
92	100		
91	173.0	139.1	208.7



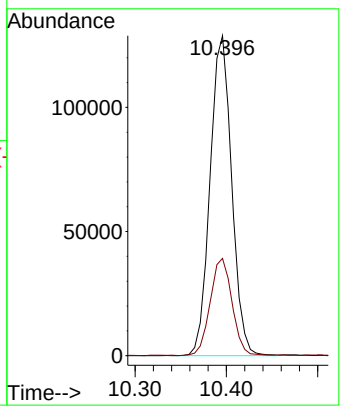


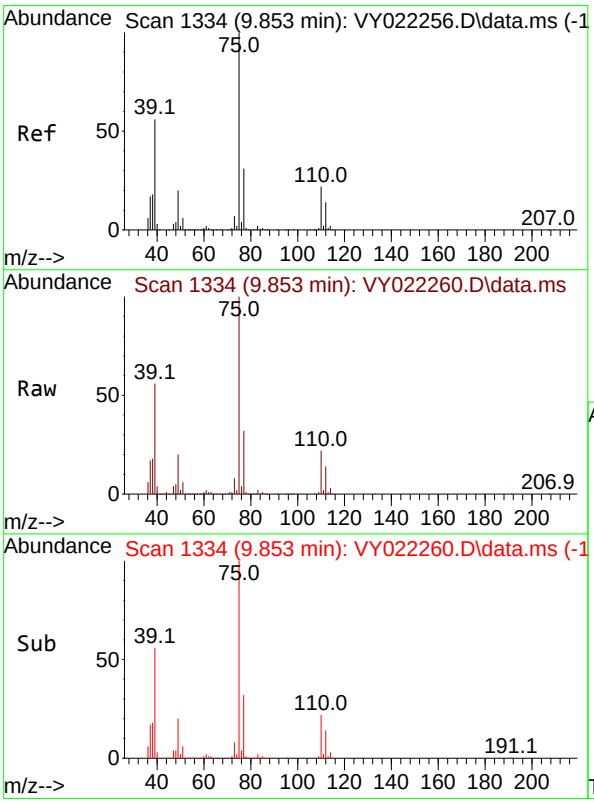
#53
t-1,3-Dichloropropene
Concen: 51.458 ug/l
RT: 10.396 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

Tgt Ion: 75 Resp: 211790

Ion	Ratio	Lower	Upper
75	100		
77	30.4	25.0	37.6

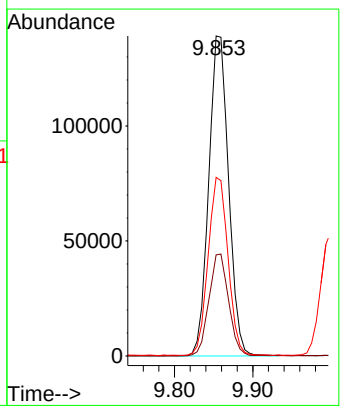


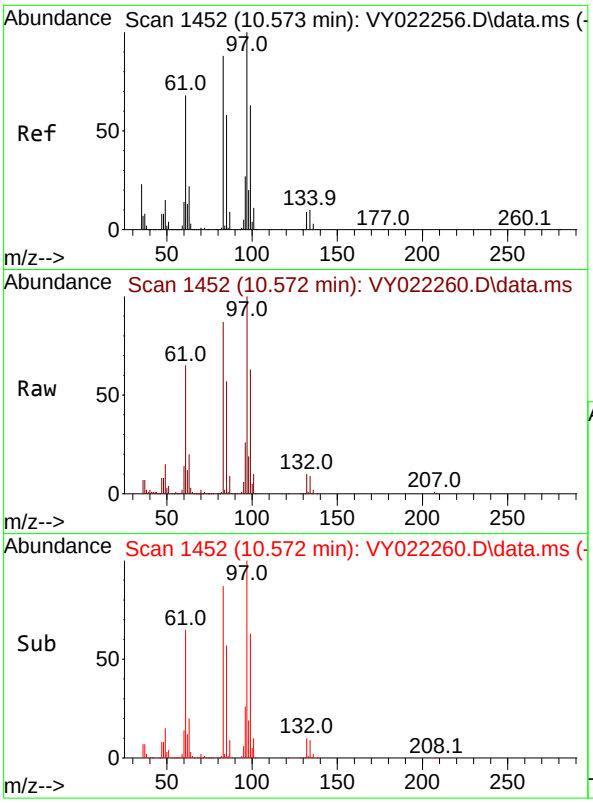


#54
cis-1,3-Dichloropropene
Concen: 51.916 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 75 Resp: 244811

Ion	Ratio	Lower	Upper
75	100		
77	31.5	25.1	37.7
39	55.6	44.5	66.7



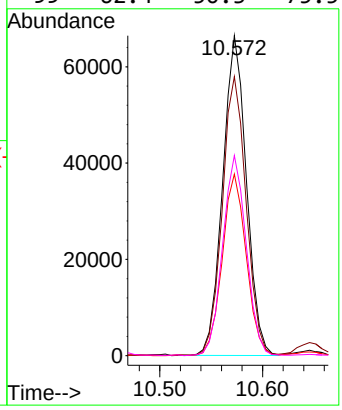


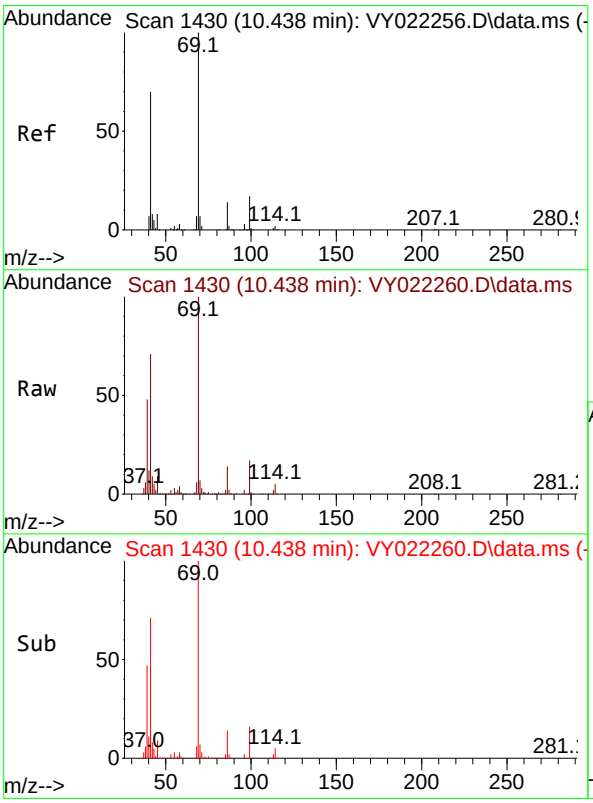
#55
1,1,2-Trichloroethane
Concen: 51.142 ug/l
RT: 10.572 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

Tgt Ion: 97 Resp: 106464

Ion	Ratio	Lower	Upper
97	100		
83	87.0	70.3	105.5
85	56.6	46.2	69.4
99	62.4	50.3	75.5

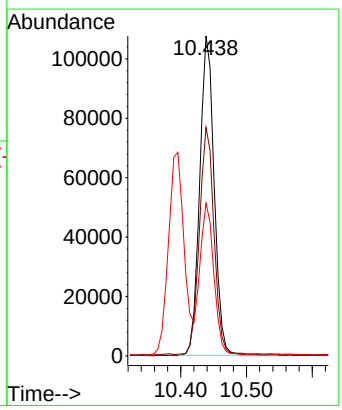


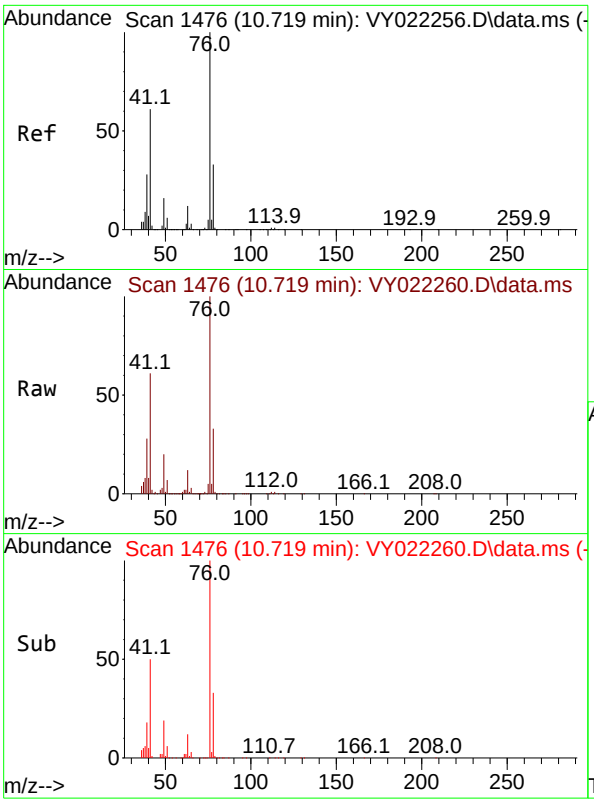


#56
Ethyl methacrylate
Concen: 50.639 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 69 Resp: 164207

Ion	Ratio	Lower	Upper
69	100		
41	71.9	56.5	84.7
39	45.6	37.1	55.7



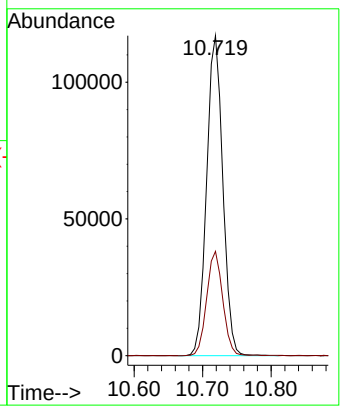


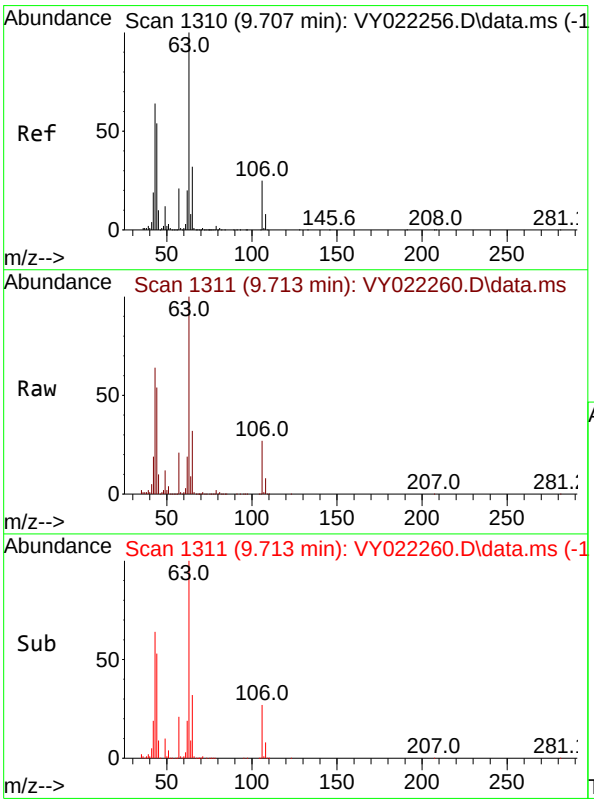
#57
1,3-Dichloropropane
Concen: 51.880 ug/l
RT: 10.719 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

Tgt Ion: 76 Resp: 191889

Ion	Ratio	Lower	Upper
76	100		
78	32.4	25.8	38.8

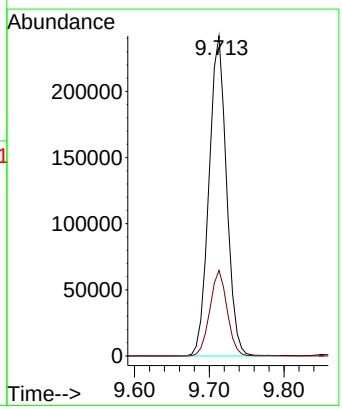


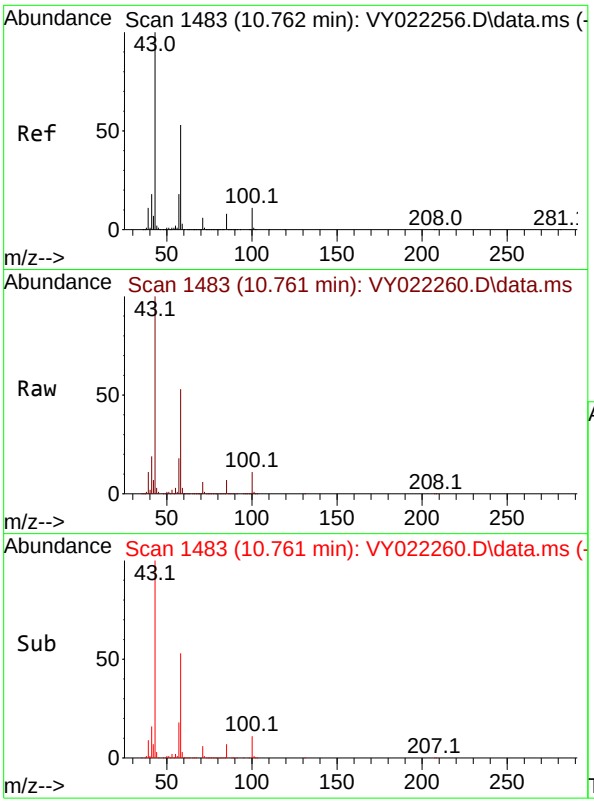


#58
2-Chloroethyl Vinyl ether
Concen: 271.104 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. 0.006 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 63 Resp: 394587

Ion	Ratio	Lower	Upper
63	100		
106	26.3	21.0	31.4



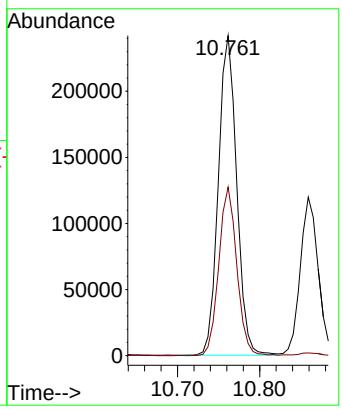


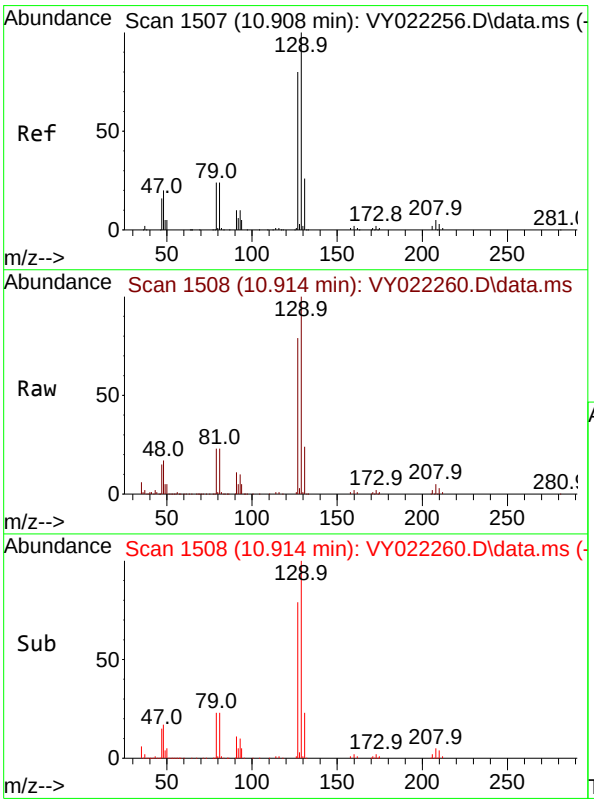
#59
2-Hexanone
Concen: 257.738 ug/l
RT: 10.761 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

Tgt Ion: 43 Resp: 375224

Ion	Ratio	Lower	Upper
43	100		
58	52.0	26.1	78.3

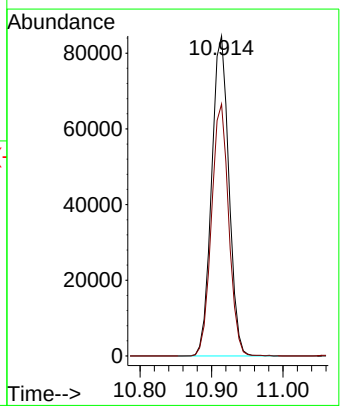


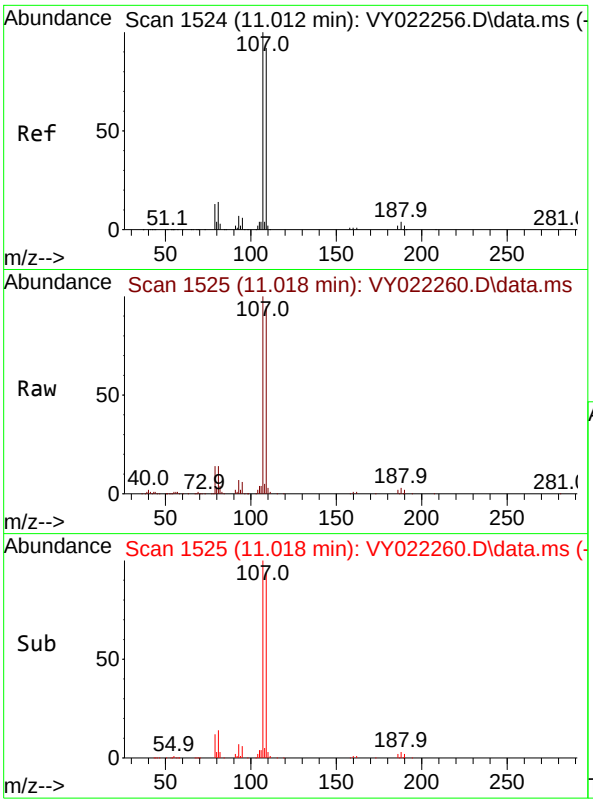


#60
Dibromochloromethane
Concen: 52.425 ug/l
RT: 10.914 min Scan# 1508
Delta R.T. 0.006 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion:129 Resp: 141652

Ion	Ratio	Lower	Upper
129	100		
127	78.4	38.6	115.7



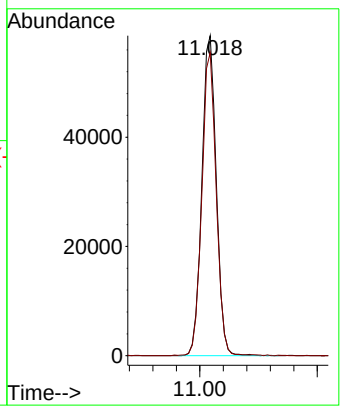


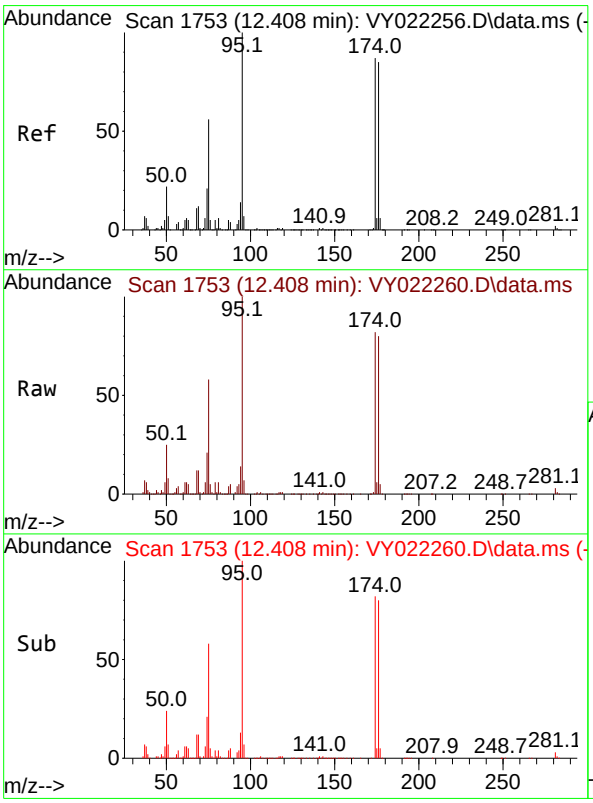
#61
1,2-Dibromoethane
Concen: 51.428 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

Tgt Ion:107 Resp: 99783

Ion	Ratio	Lower	Upper
107	100		
109	94.4	74.6	111.8

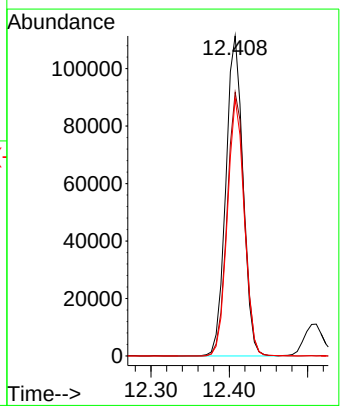


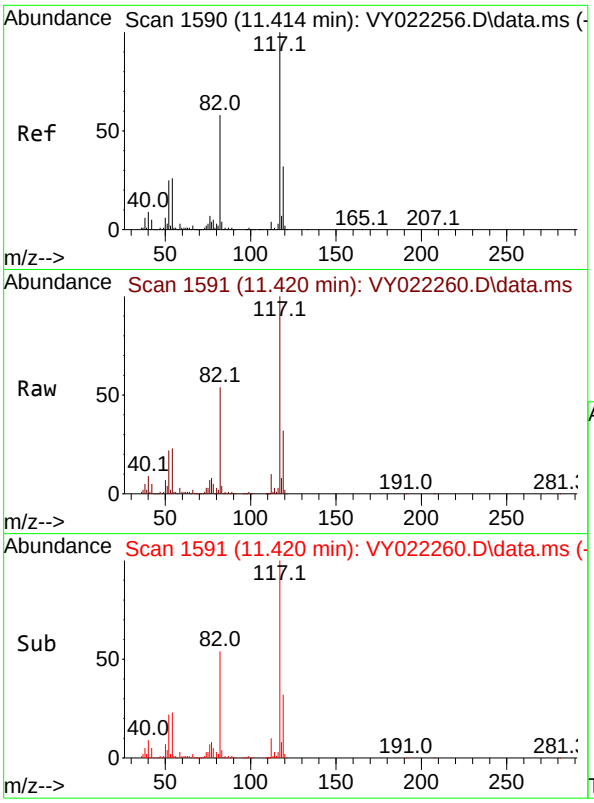


#62
4-Bromofluorobenzene
Concen: 51.020 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 95 Resp: 169575

Ion	Ratio	Lower	Upper
95	100		
174	83.5	0.0	166.8
176	79.1	0.0	160.8



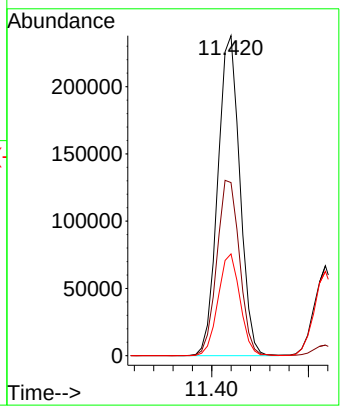


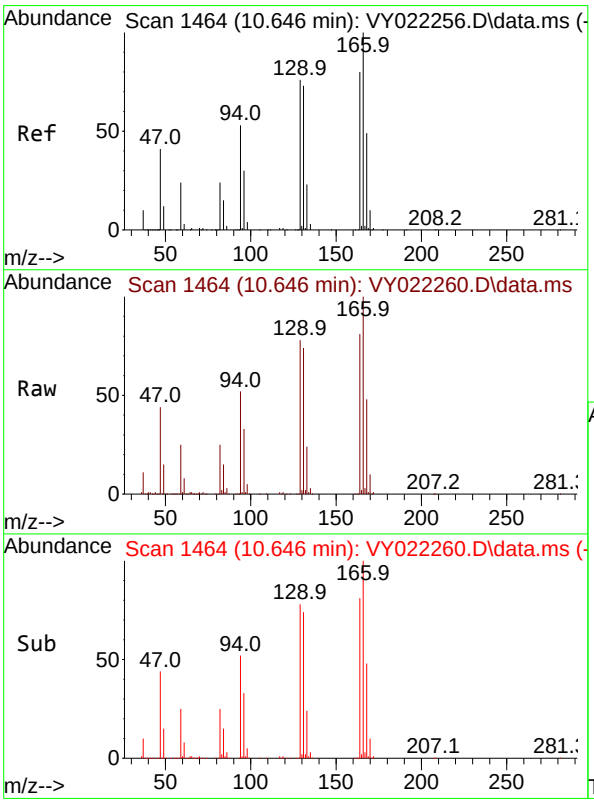
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

Tgt Ion:117 Resp: 375548

Ion	Ratio	Lower	Upper
117	100		
82	54.1	46.6	70.0
119	31.8	25.8	38.6

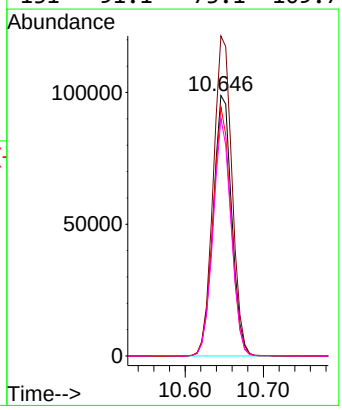


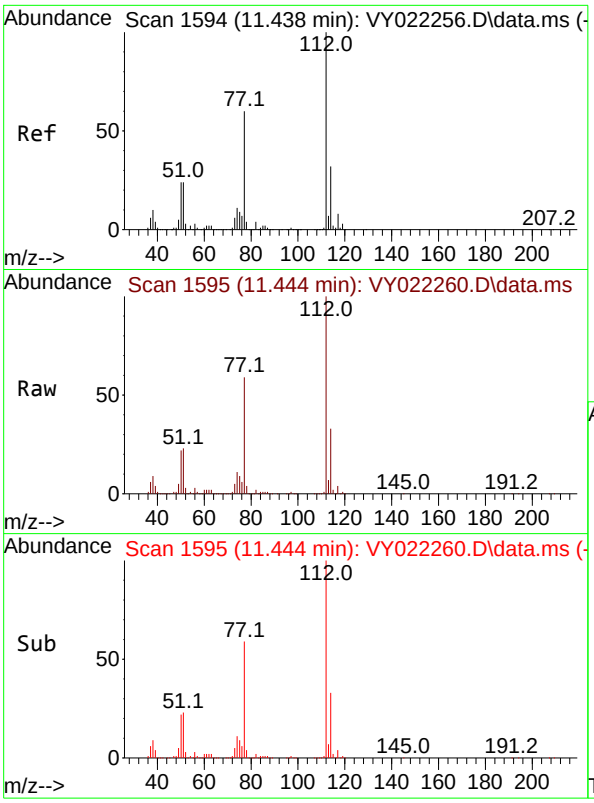


#64
Tetrachloroethene
Concen: 46.905 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion:164 Resp: 162818

Ion	Ratio	Lower	Upper
164	100		
166	122.8	100.4	150.6
129	95.5	76.4	114.6
131	91.1	73.1	109.7



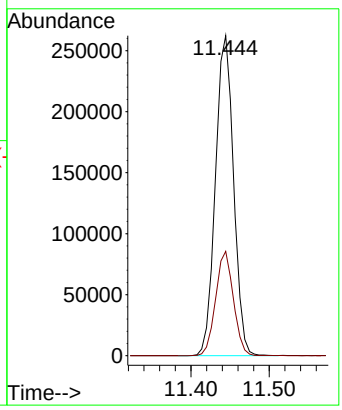


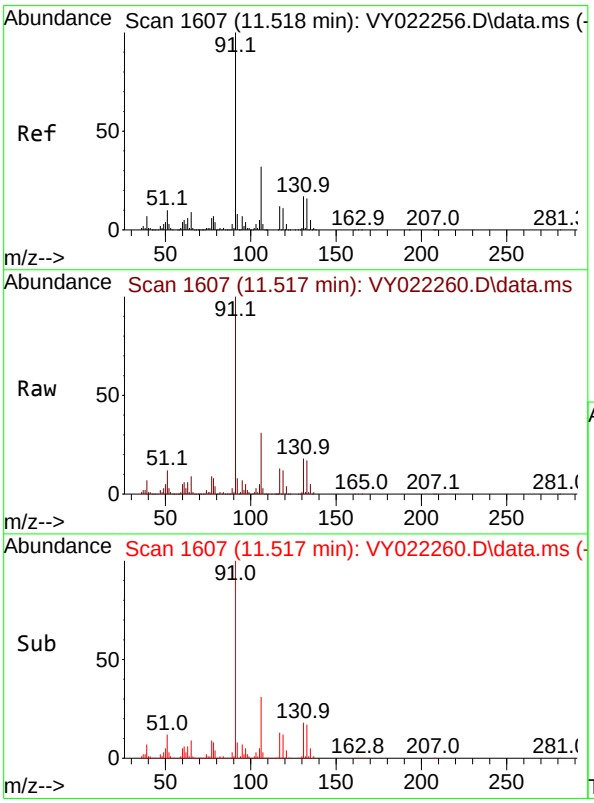
#65
Chlorobenzene
Concen: 49.827 ug/l
RT: 11.444 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

Tgt Ion:112 Resp: 422170

Ion	Ratio	Lower	Upper
112	100		
114	32.6	25.8	38.6

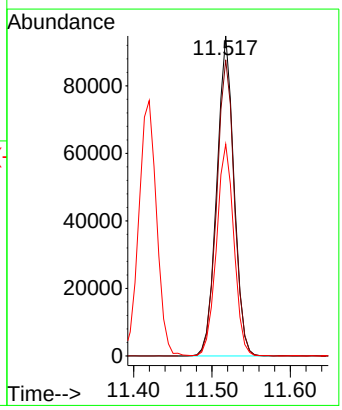


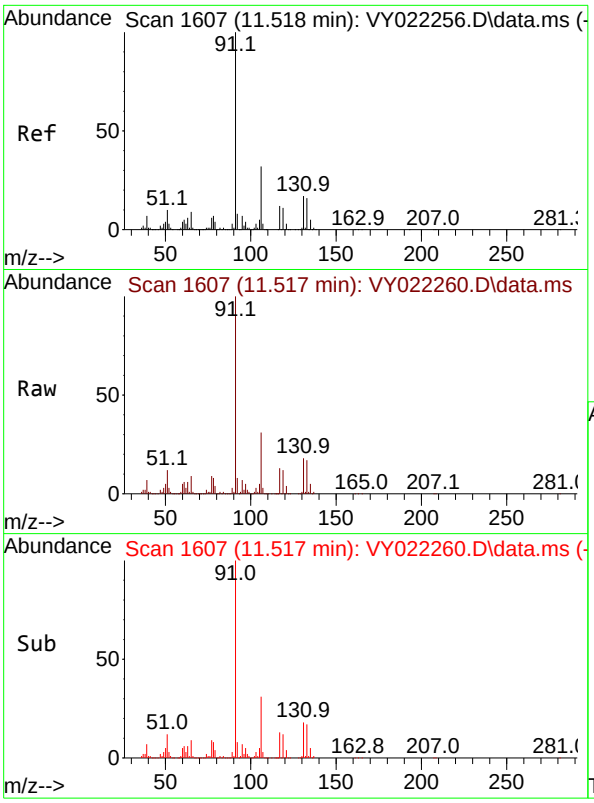


#66
1,1,1,2-Tetrachloroethane
Concen: 49.656 ug/l
RT: 11.517 min Scan# 1607
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion:131 Resp: 144636

Ion	Ratio	Lower	Upper
131	100		
133	94.9	47.3	141.9
119	67.0	33.1	99.2



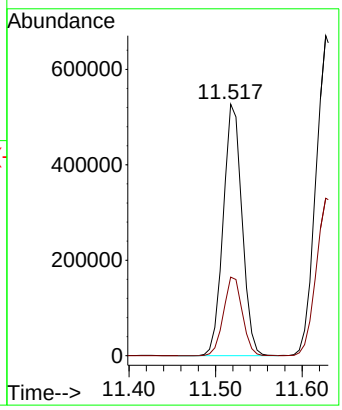


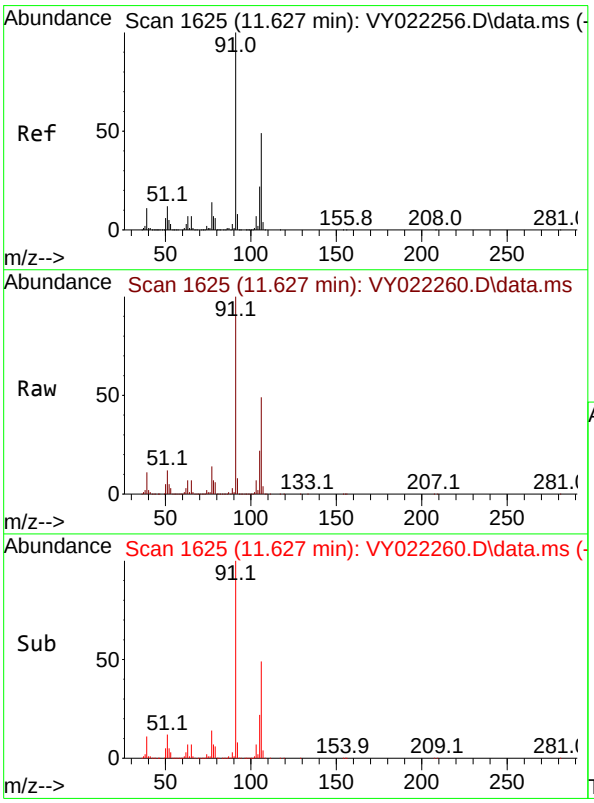
#67
Ethyl Benzene
Concen: 50.100 ug/l
RT: 11.517 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

Tgt Ion: 91 Resp: 794978

Ion	Ratio	Lower	Upper
91	100		
106	31.2	25.4	38.0

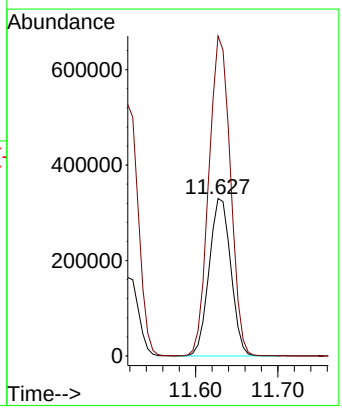


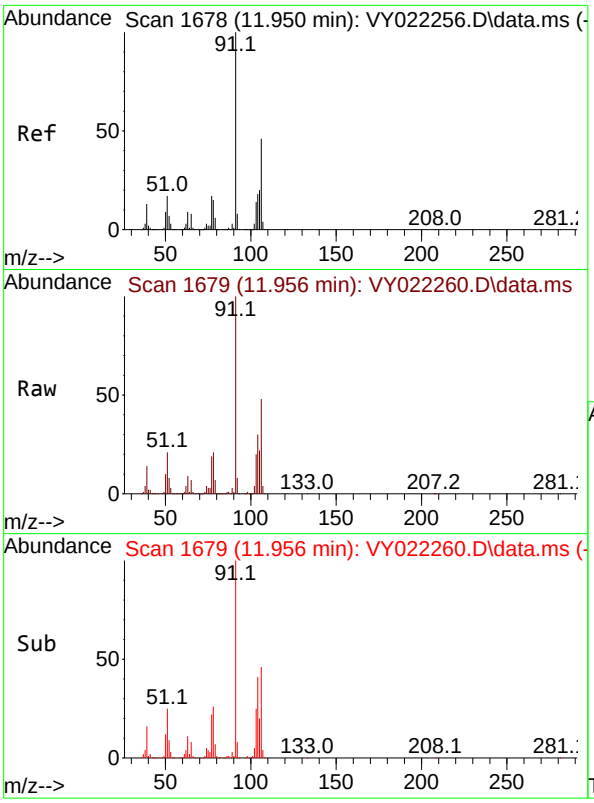


#68
m/p-Xylenes
Concen: 101.087 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion:106 Resp: 604420

Ion	Ratio	Lower	Upper
106	100		
91	202.6	163.0	244.4



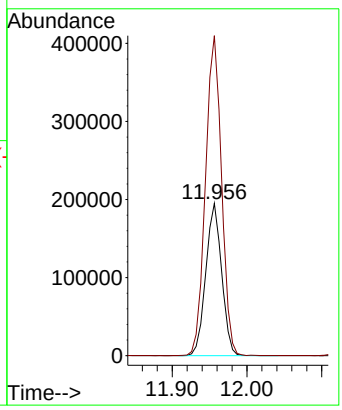


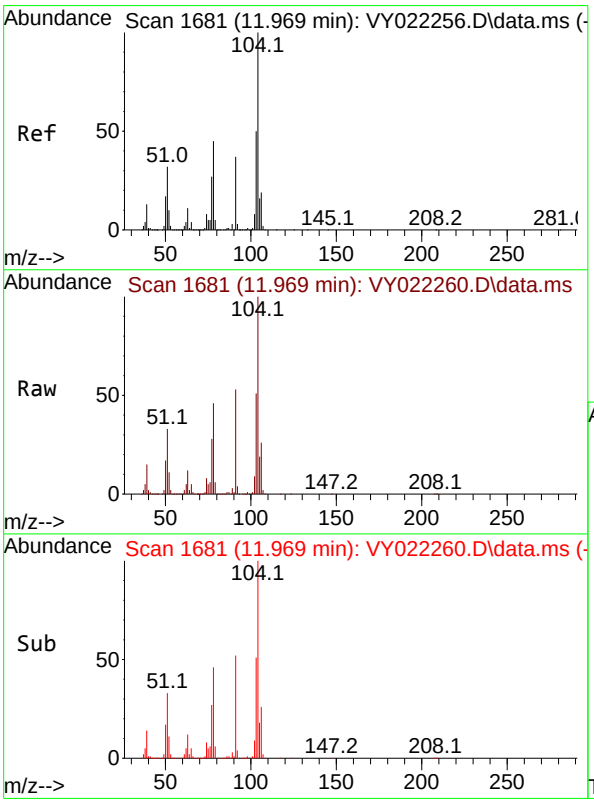
#69
o-Xylene
Concen: 50.682 ug/l
RT: 11.956 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

Tgt Ion:106 Resp: 286712

Ion	Ratio	Lower	Upper
106	100		
91	213.3	108.3	324.8

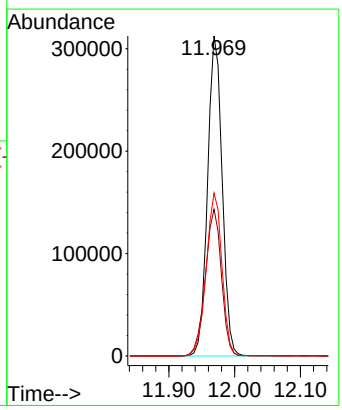


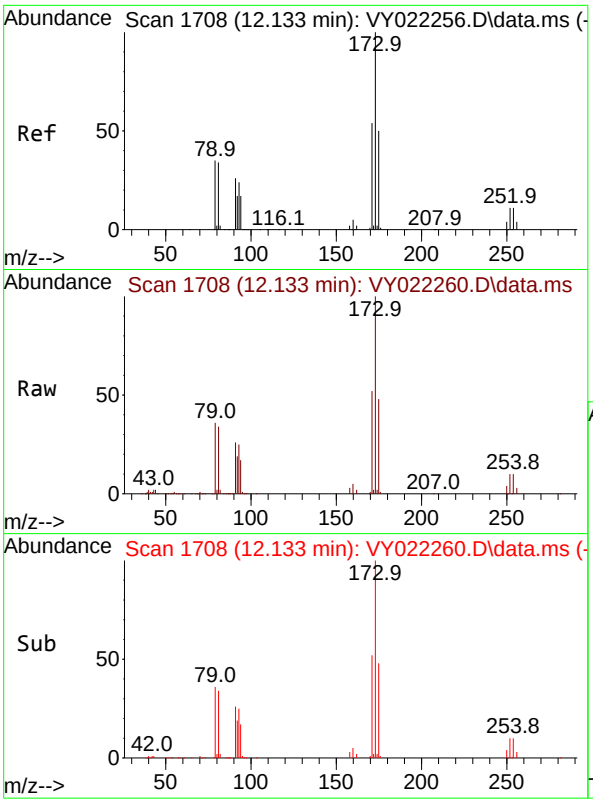


#70
Styrene
Concen: 50.471 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion:104 Resp: 481621

Ion	Ratio	Lower	Upper
104	100		
78	50.7	40.9	61.3
103	55.1	43.7	65.5



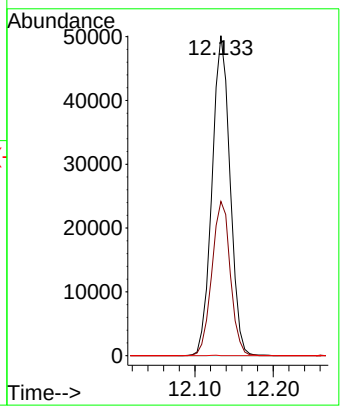


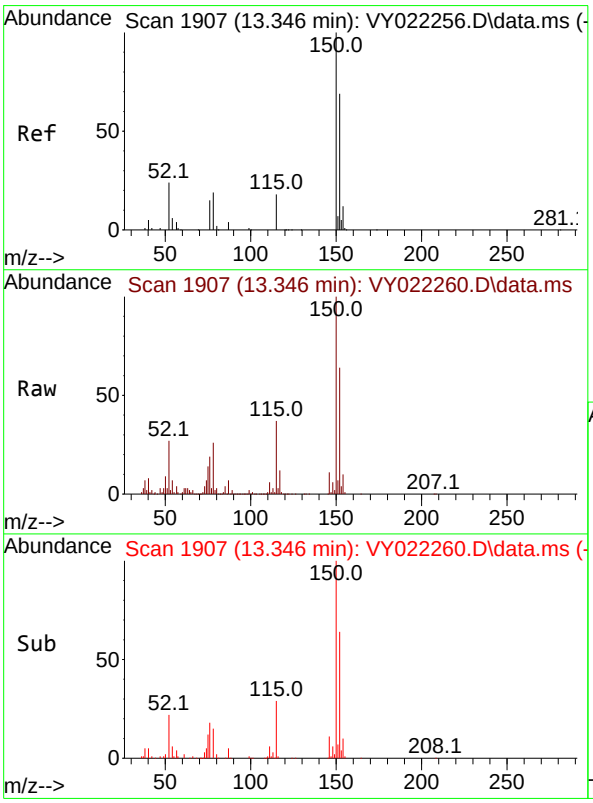
#71
Bromoform
Concen: 51.022 ug/l
RT: 12.133 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

Tgt Ion:173 Resp: 80216

Ion	Ratio	Lower	Upper
173	100		
175	49.3	24.7	74.1
254	0.1	0.0	0.0#

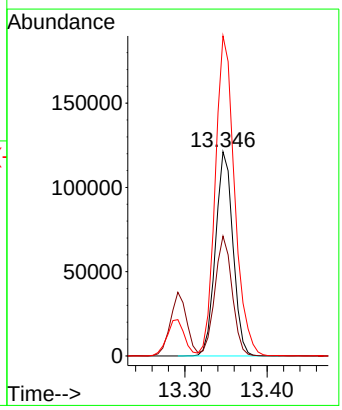


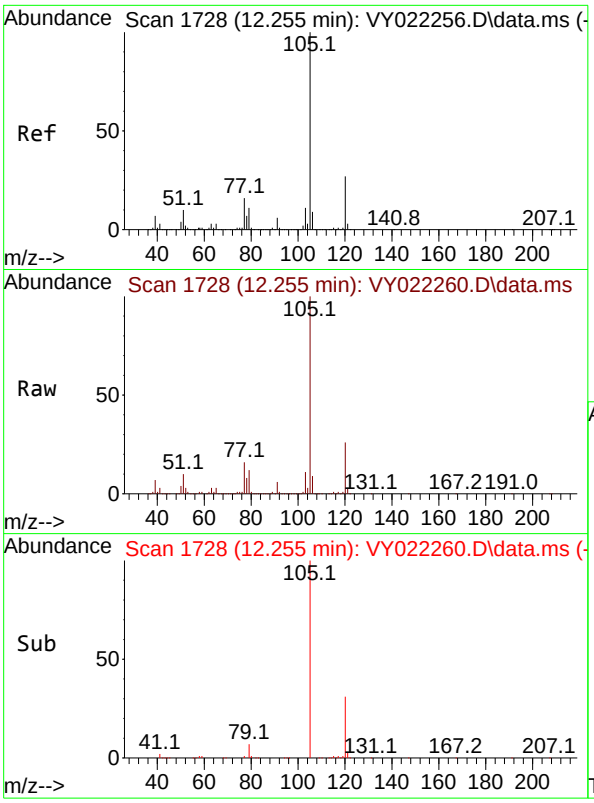


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion:152 Resp: 178387

Ion	Ratio	Lower	Upper
152	100		
115	58.1	29.4	88.2
150	173.8	0.0	353.8



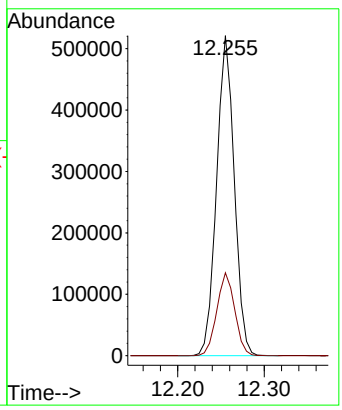


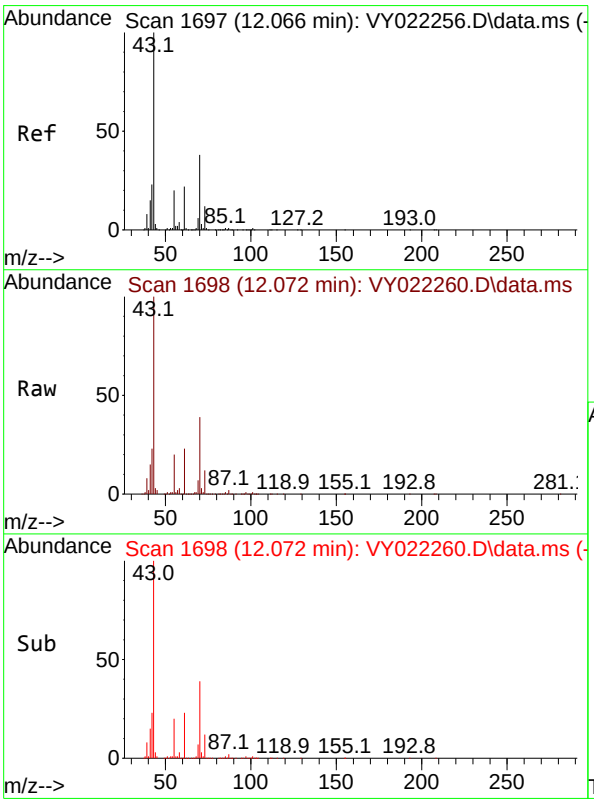
#73
Isopropylbenzene
Concen: 49.964 ug/l
RT: 12.255 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

Tgt Ion:105 Resp: 738398

Ion	Ratio	Lower	Upper
105	100		
120	26.2	13.2	39.6

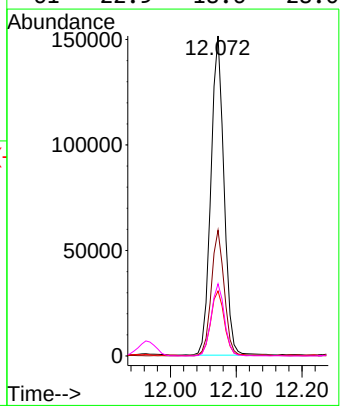


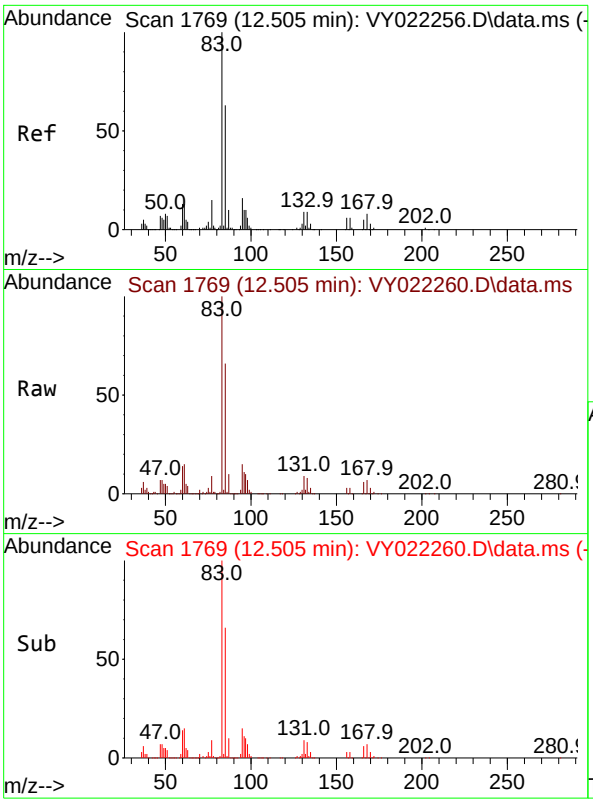


#74
N-amyl acetate
Concen: 49.805 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.006 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 43 Resp: 210510

Ion	Ratio	Lower	Upper
43	100		
70	39.0	31.4	47.0
55	20.7	17.0	25.6
61	22.9	18.6	28.0



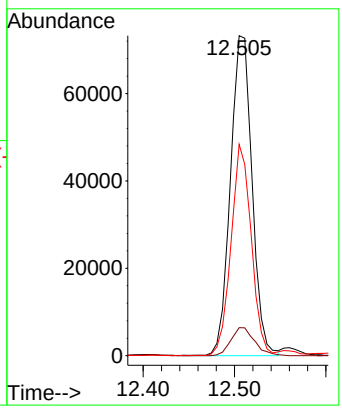


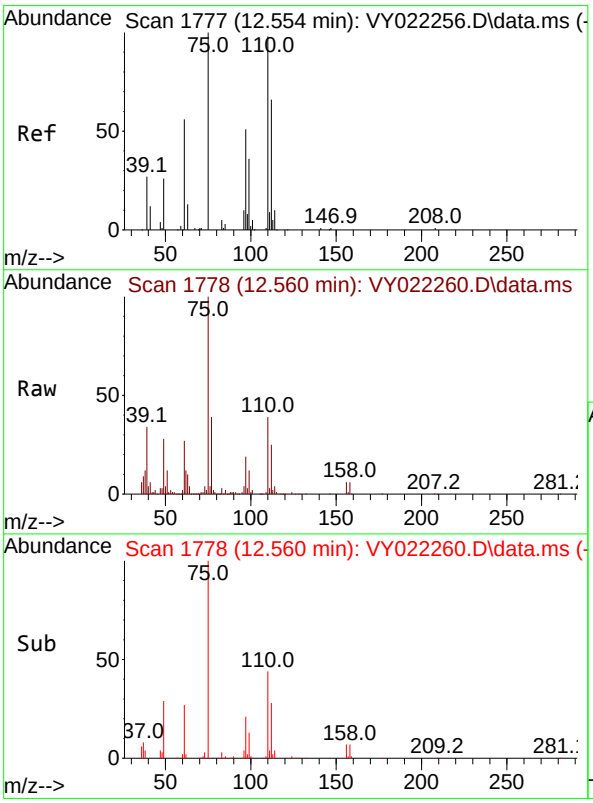
#75
1,1,2,2-Tetrachloroethane
Concen: 53.062 ug/l
RT: 12.505 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

Tgt Ion: 83 Resp: 120599

Ion	Ratio	Lower	Upper
83	100		
131	9.6	4.9	14.7
85	61.7	32.0	96.0

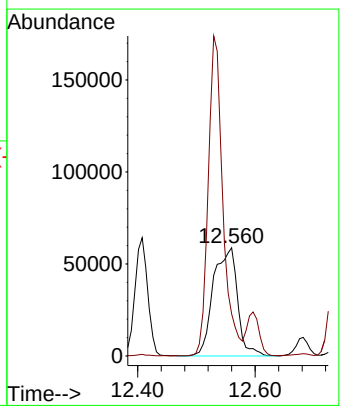


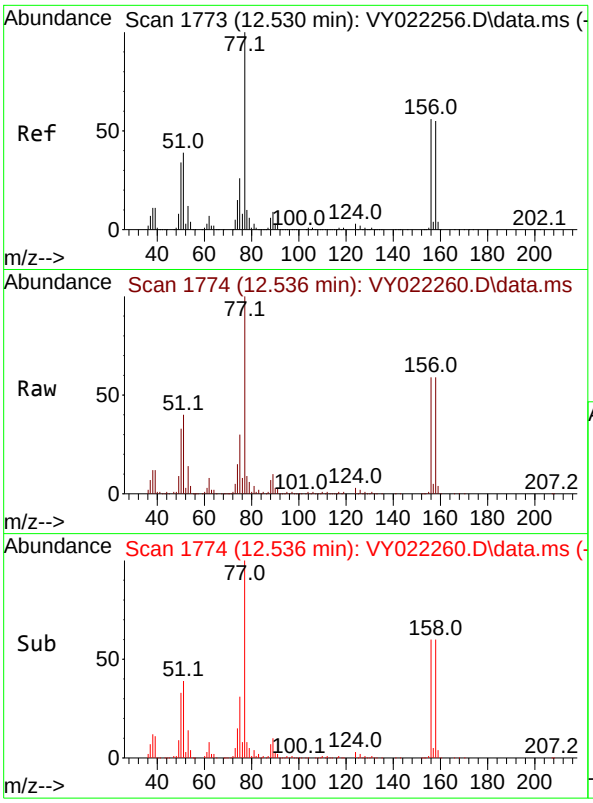


#76
1,2,3-Trichloropropane
Concen: 92.604 ug/l
RT: 12.560 min Scan# 1778
Delta R.T. 0.006 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 75 Resp: 167358

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0



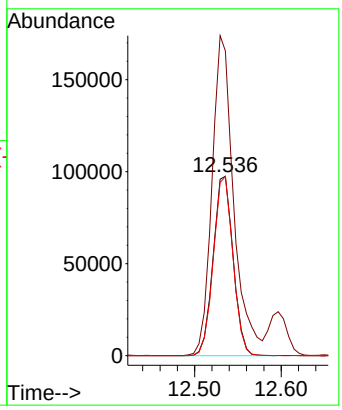


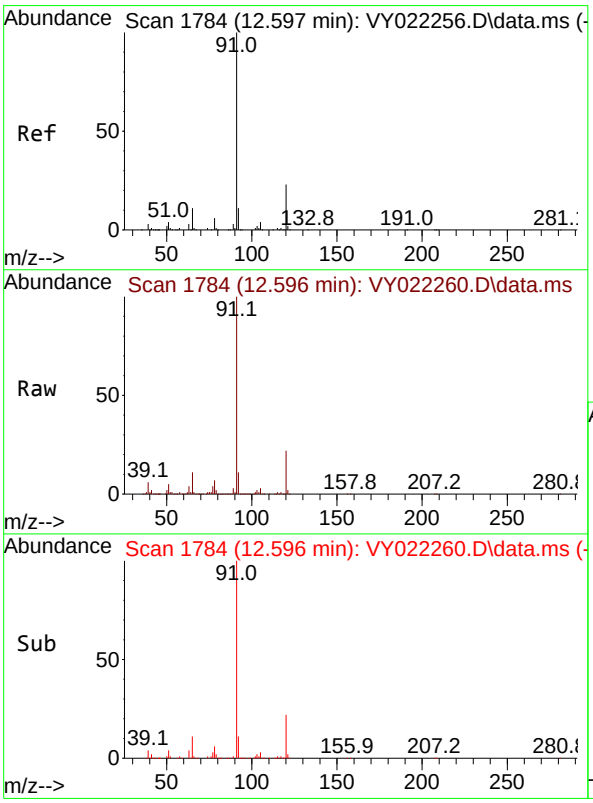
#77
Bromobenzene
Concen: 49.374 ug/l
RT: 12.536 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

Tgt Ion:156 Resp: 155843

Ion	Ratio	Lower	Upper
156	100		
77	194.2	94.5	283.6
158	98.0	48.4	145.3

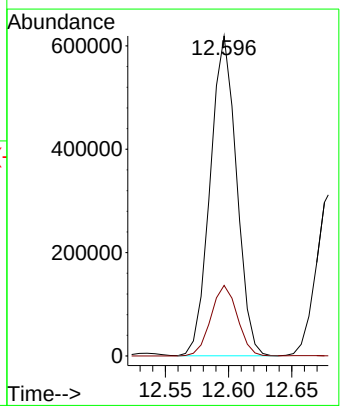


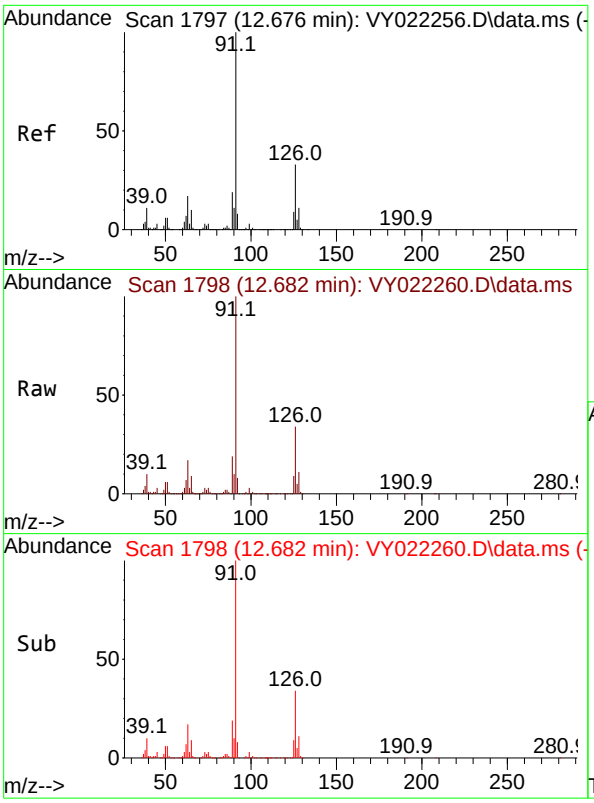


#78
n-propylbenzene
Concen: 50.296 ug/l
RT: 12.596 min Scan# 1784
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 91 Resp: 896555

Ion	Ratio	Lower	Upper
91	100		
120	22.1	11.1	33.3



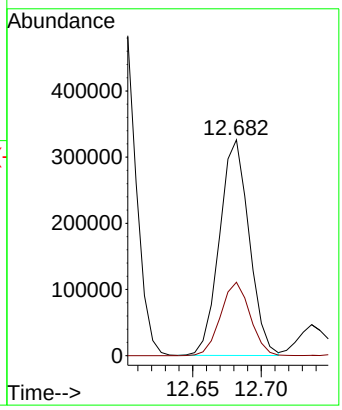


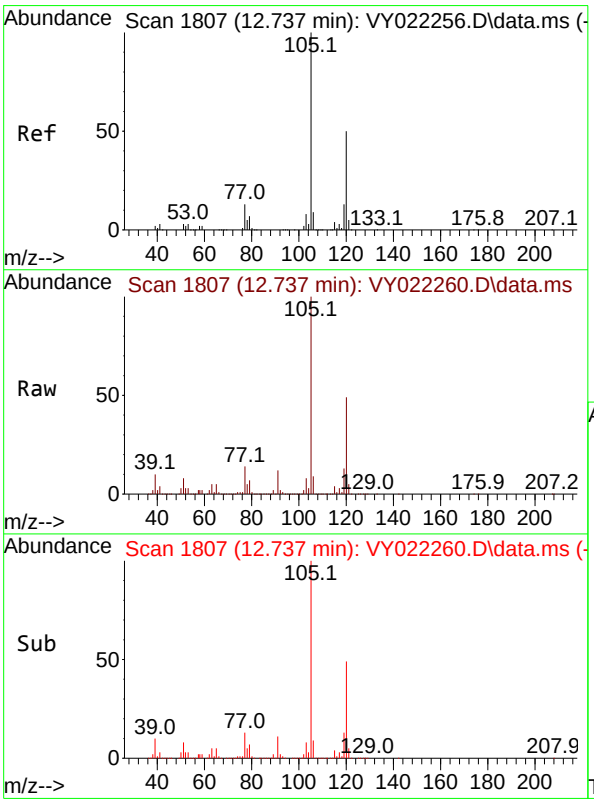
#79
2-Chlorotoluene
Concen: 50.130 ug/l
RT: 12.682 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

Tgt Ion: 91 Resp: 491073

Ion	Ratio	Lower	Upper
91	100		
126	33.8	16.8	50.4

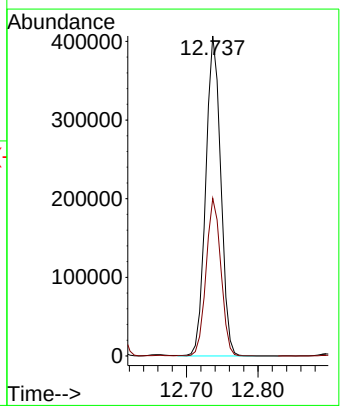


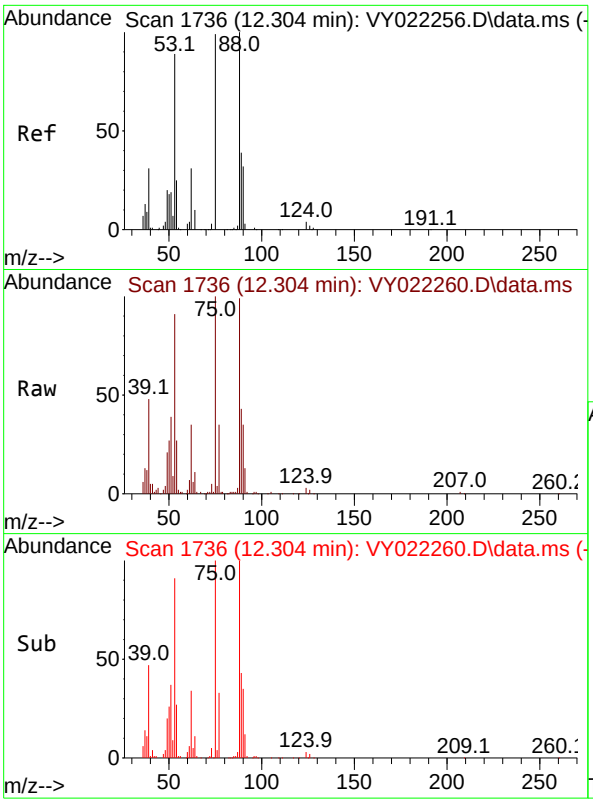


#80
1,3,5-Trimethylbenzene
Concen: 49.632 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion:105 Resp: 592100

Ion	Ratio	Lower	Upper
105	100		
120	48.7	24.2	72.6



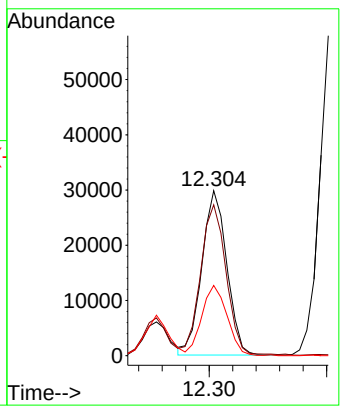


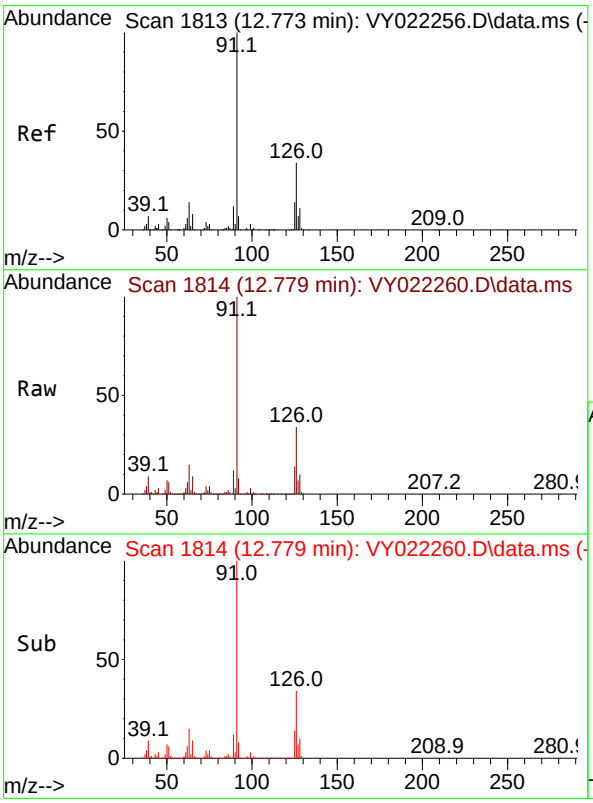
#81
trans-1,4-Dichloro-2-butene
Concen: 49.231 ug/l
RT: 12.304 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

Tgt Ion: 75 Resp: 43921

Ion	Ratio	Lower	Upper
75	100		
53	94.1	75.8	113.8
89	43.4	36.2	54.2

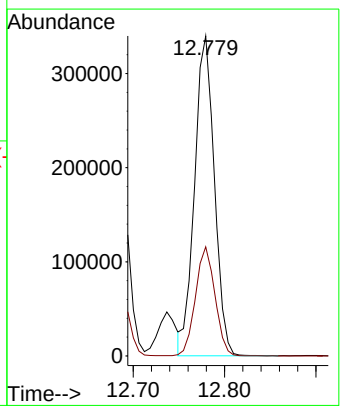


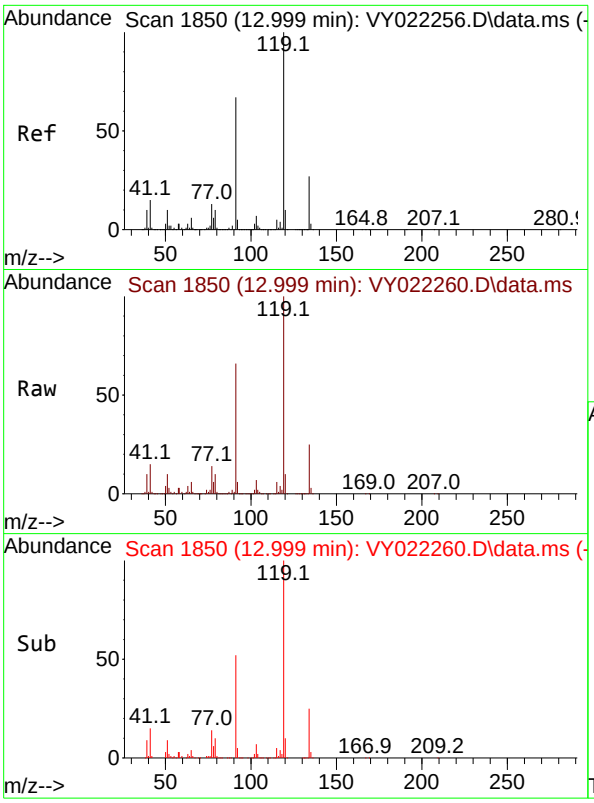


#82
4-Chlorotoluene
Concen: 50.661 ug/l
RT: 12.779 min Scan# 1814
Delta R.T. 0.006 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 91 Resp: 510451

Ion	Ratio	Lower	Upper
91	100		
126	33.7	16.8	50.4



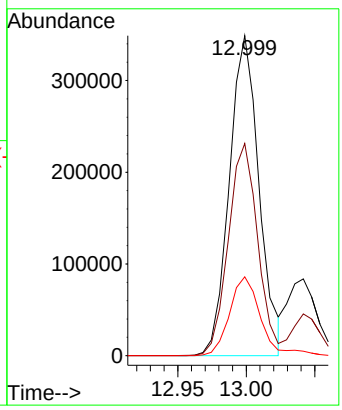


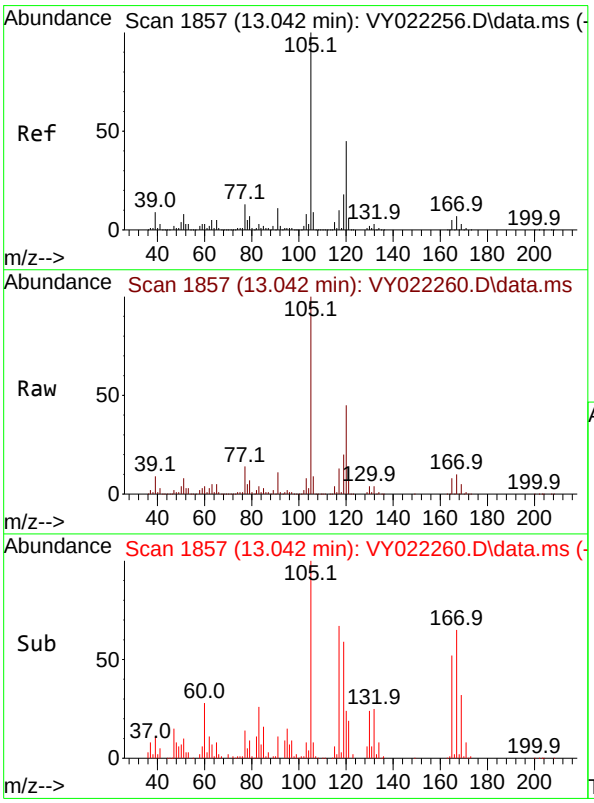
#83
tert-Butylbenzene
Concen: 49.715 ug/l
RT: 12.999 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

Tgt Ion:119 Resp: 527140

Ion	Ratio	Lower	Upper
119	100		
91	65.4	32.8	98.3
134	25.8	12.9	38.6

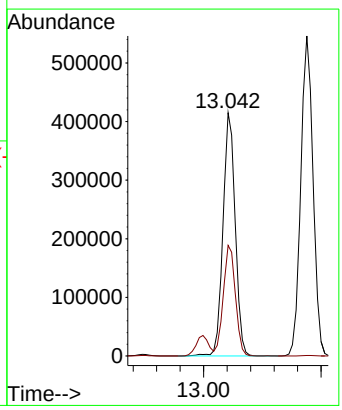


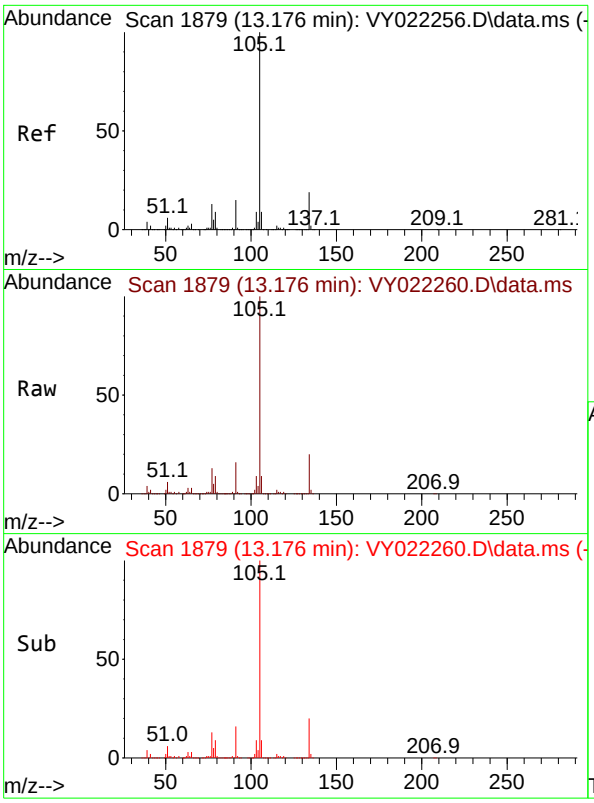


#84
1,2,4-Trimethylbenzene
Concen: 50.535 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion:105 Resp: 598450

Ion	Ratio	Lower	Upper
105	100		
120	45.1	22.3	66.9



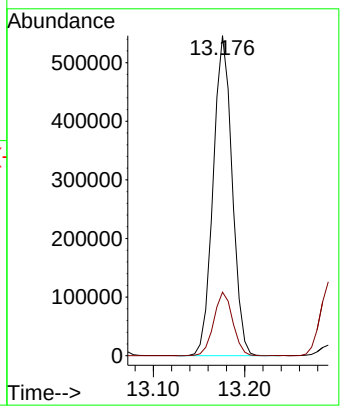


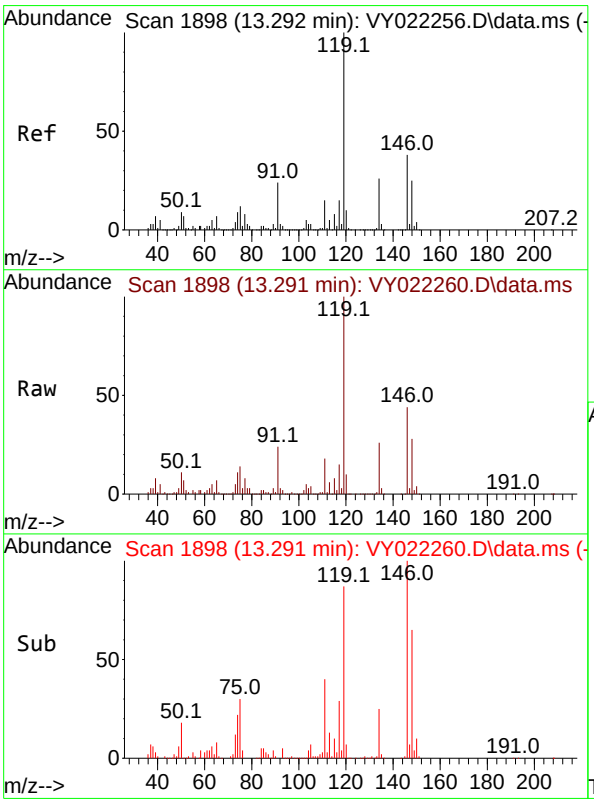
#85
sec-Butylbenzene
Concen: 50.000 ug/l
RT: 13.176 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

Tgt Ion:105 Resp: 787000

Ion	Ratio	Lower	Upper
105	100		
134	19.8	9.8	29.5

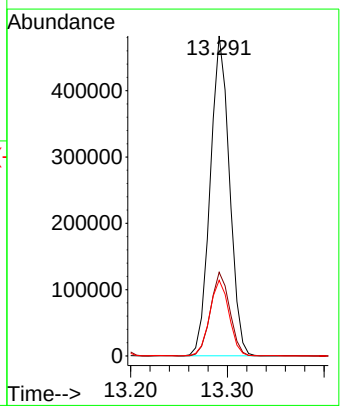


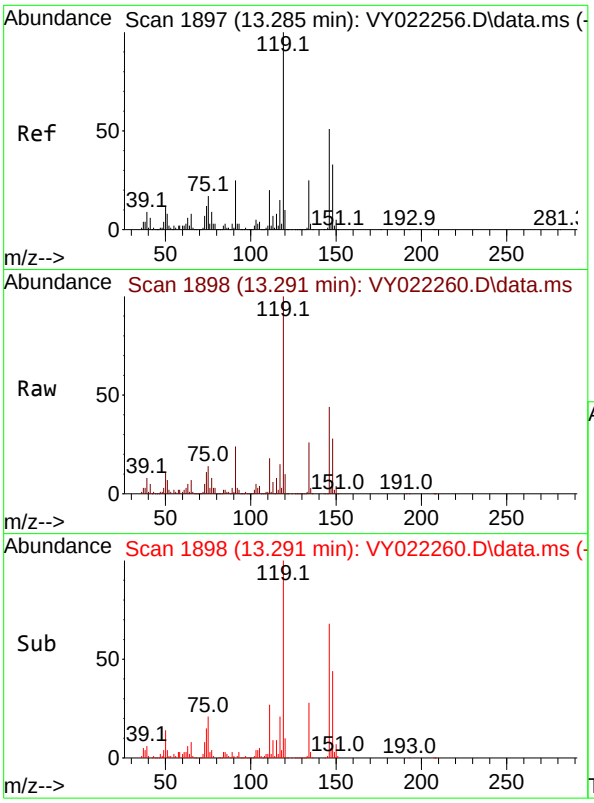


#86
p-Isopropyltoluene
Concen: 50.219 ug/l
RT: 13.291 min Scan# 1898
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion:119 Resp: 664795

Ion	Ratio	Lower	Upper
119	100		
134	26.2	12.9	38.6
91	23.8	12.1	36.3



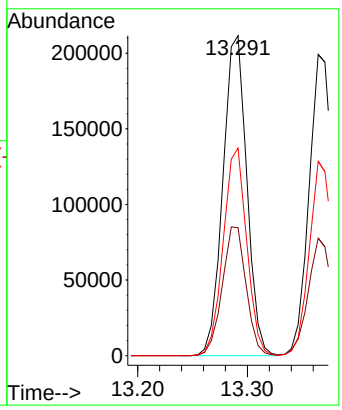


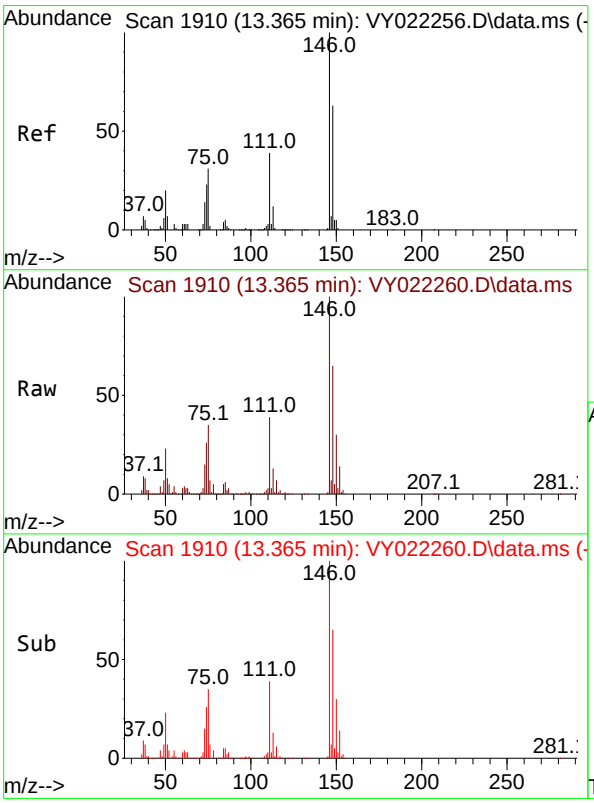
#87
1,3-Dichlorobenzene
Concen: 49.718 ug/l
RT: 13.291 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

Tgt Ion:146 Resp: 320357

Ion	Ratio	Lower	Upper
146	100		
111	40.2	19.9	59.7
148	63.8	31.9	95.7

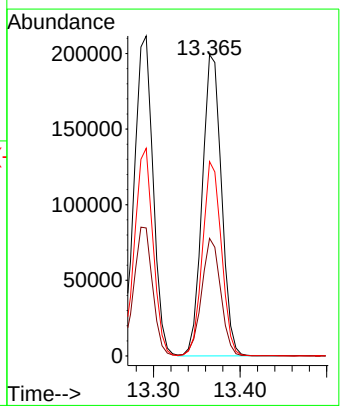


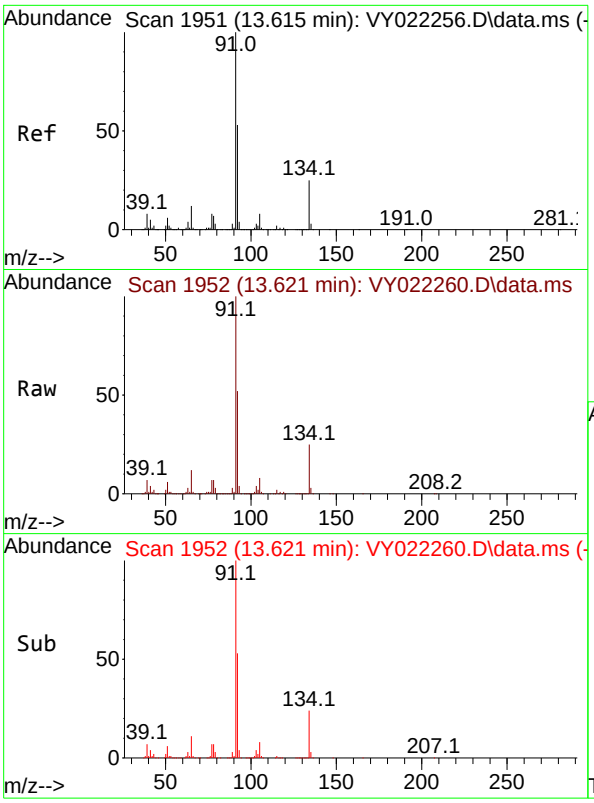


#88
1,4-Dichlorobenzene
Concen: 49.669 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion:146 Resp: 307847

Ion	Ratio	Lower	Upper
146	100		
111	38.6	20.0	59.9
148	63.3	32.1	96.5



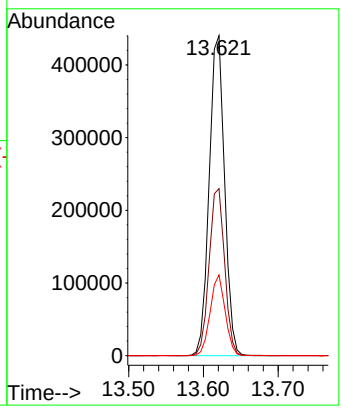


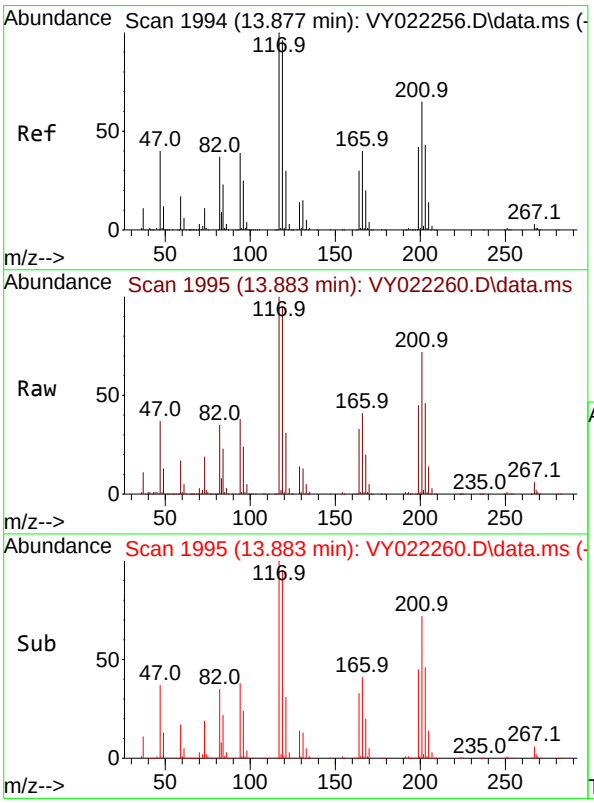
#89
n-Butylbenzene
Concen: 50.402 ug/l
RT: 13.621 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

Tgt Ion: 91 Resp: 631222

Ion	Ratio	Lower	Upper
91	100		
92	52.7	26.3	78.9
134	24.6	12.4	37.4

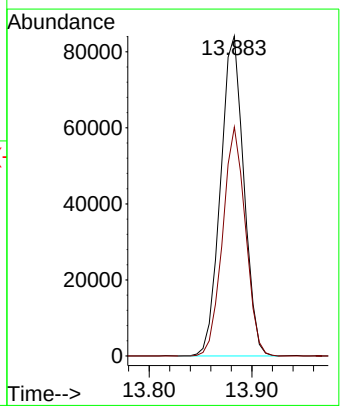


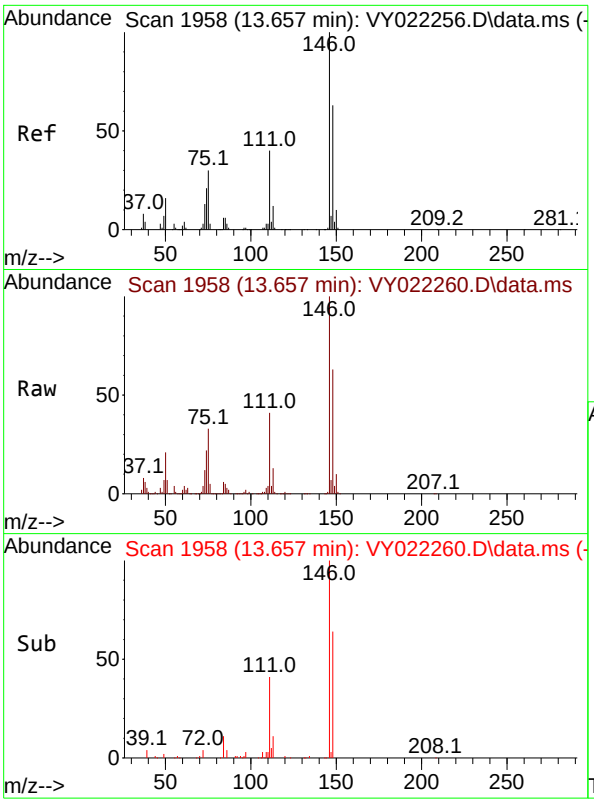


#90
Hexachloroethane
Concen: 49.502 ug/l
RT: 13.883 min Scan# 1995
Delta R.T. 0.006 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion:117 Resp: 132281

Ion	Ratio	Lower	Upper
117	100		
201	70.2	35.2	105.6



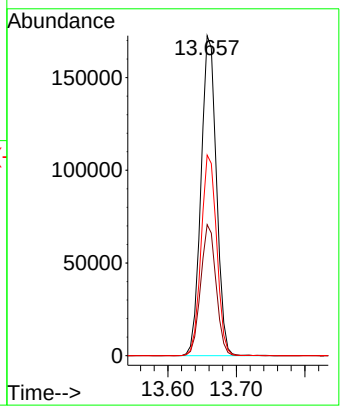


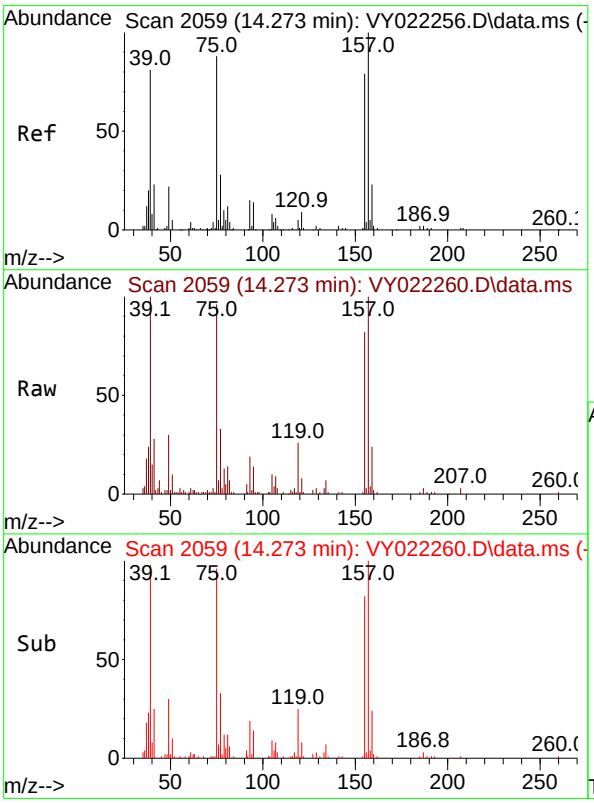
#91
1,2-Dichlorobenzene
Concen: 49.954 ug/l
RT: 13.657 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

Tgt Ion:146 Resp: 270373

Ion	Ratio	Lower	Upper
146	100		
111	40.8	20.5	61.5
148	63.3	32.0	96.0

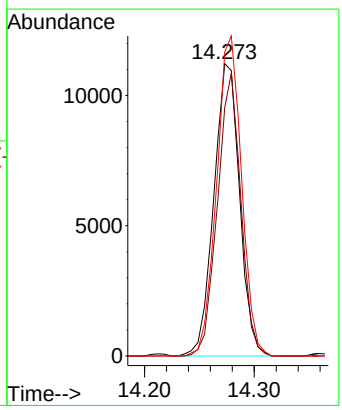


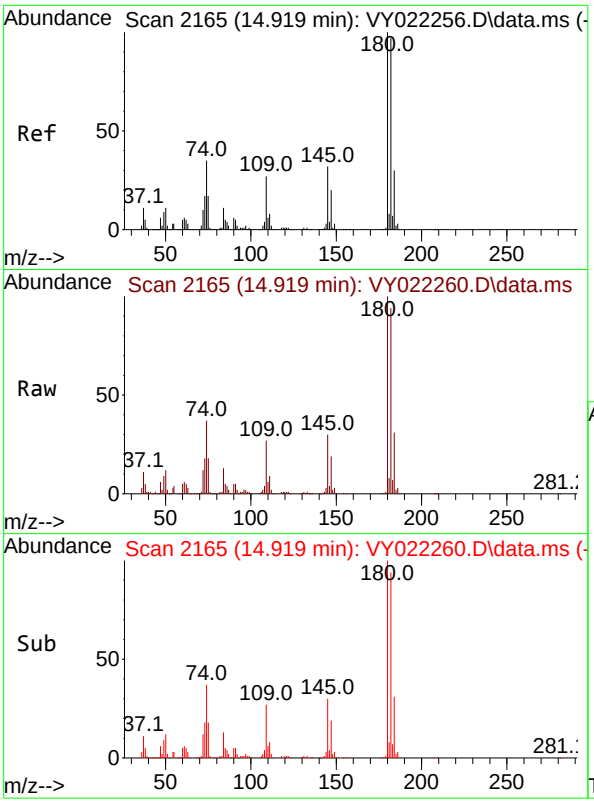


#92
1,2-Dibromo-3-Chloropropane
Concen: 50.028 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion: 75 Resp: 18335

Ion	Ratio	Lower	Upper
75	100		
155	87.6	43.4	130.1
157	105.9	54.6	163.9



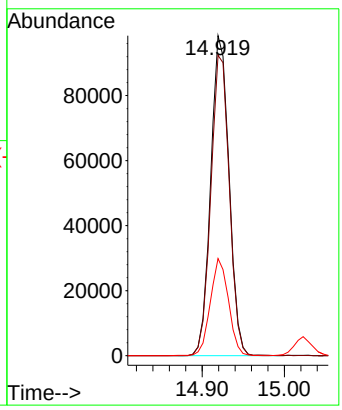


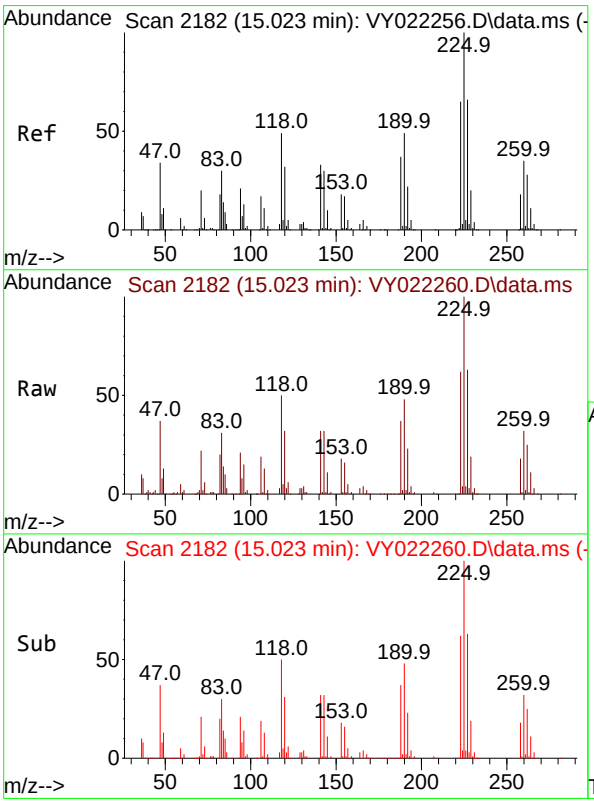
#93
1,2,4-Trichlorobenzene
Concen: 48.794 ug/l
RT: 14.919 min Scan# 21
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

Tgt Ion:180 Resp: 152548

Ion	Ratio	Lower	Upper
180	100		
182	94.7	48.0	144.0
145	30.1	15.0	45.1

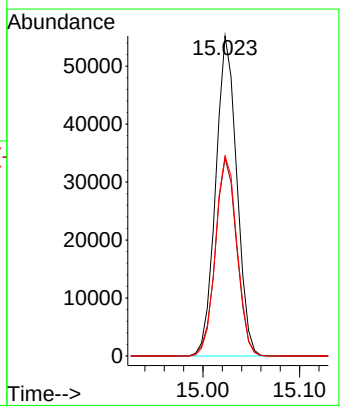


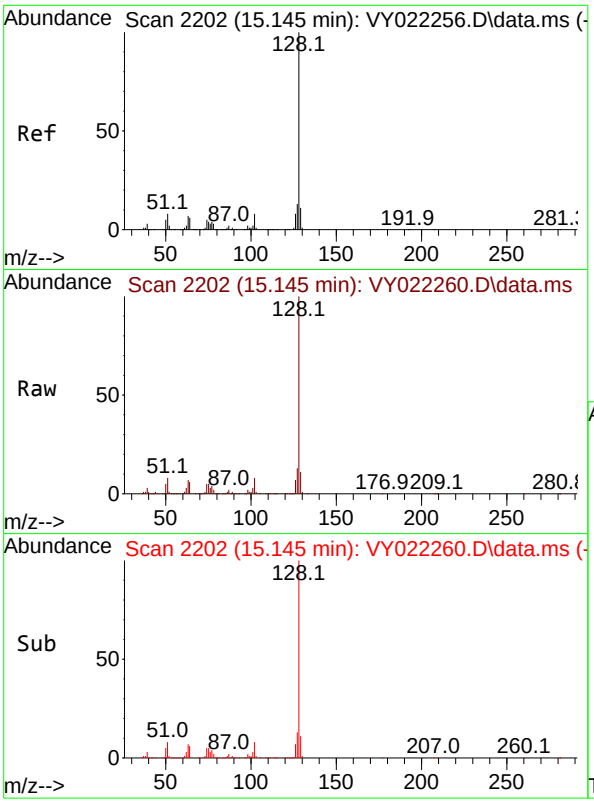


#94
Hexachlorobutadiene
Concen: 47.770 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion:225 Resp: 83287

Ion	Ratio	Lower	Upper
225	100		
223	62.6	31.5	94.5
227	63.6	32.1	96.3



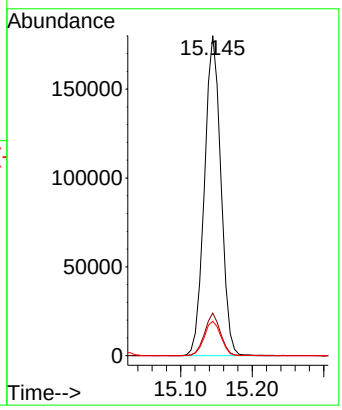


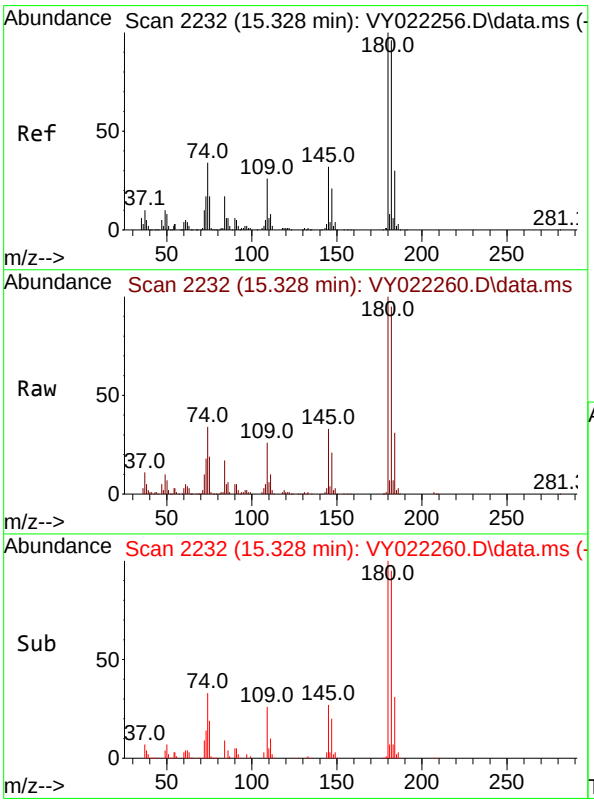
#95
Naphthalene
Concen: 48.421 ug/l
RT: 15.145 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY051525

Tgt Ion:128 Resp: 287276

Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.2	15.2
129	10.9	8.8	13.2

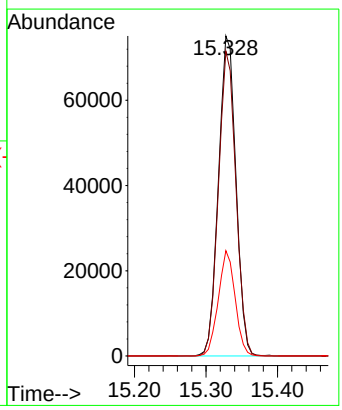




#96
1,2,3-Trichlorobenzene
Concen: 48.060 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. -0.000 min
Lab File: VY022260.D
Acq: 15 May 2025 13:20

Tgt Ion:180 Resp: 127466

Ion	Ratio	Lower	Upper
180	100		
182	95.4	47.1	141.3
145	31.6	15.9	47.6



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022407.D
Acq On : 23 May 2025 14:34
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Quant Time: May 23 23:19:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	7.719	168	221240	50.000	ug/l		0.01
34) 1,4-Difluorobenzene	8.622	114	368290	50.000	ug/l		0.00
63) Chlorobenzene-d5	11.420	117	319713	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	13.352	152	156128	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	8.073	65	105056	43.448	ug/l		0.01
Spiked Amount 50.000	Range 50 - 163		Recovery = 86.900%				
35) Dibromofluoromethane	7.640	113	103275	46.982	ug/l		0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 93.960%				
50) Toluene-d8	10.115	98	390436	43.369	ug/l		0.01
Spiked Amount 50.000	Range 58 - 134		Recovery = 86.740%				
62) 4-Bromofluorobenzene	12.414	95	123042	43.119	ug/l		0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 86.240%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.867	85	116968	50.667	ug/l		96
3) Chloromethane	2.074	50	290256	59.771	ug/l		98
4) Vinyl Chloride	2.208	62	347178	63.990	ug/l		100
5) Bromomethane	2.598	94	413446	93.610	ug/l		96
6) Chloroethane	2.738	64	259722	76.947	ug/l		95
7) Trichlorofluoromethane	3.055	101	319919	58.240	ug/l		99
8) Diethyl Ether	3.464	74	67445	51.162	ug/l		90
9) 1,1,2-Trichlorotrifluo...	3.818	101	132232	55.449	ug/l		99
10) Methyl Iodide	4.013	142	155151	56.212	ug/l		99
11) Tert butyl alcohol	4.891	59	43078	233.304	ug/l	#	100
12) 1,1-Dichloroethene	3.799	96	128262	54.199	ug/l		98
13) Acrolein	3.671	56	5422	20.087	ug/l		87
14) Allyl chloride	4.397	41	191433	46.134	ug/l		93
15) Acrylonitrile	5.073	53	136585	251.450	ug/l		99
16) Acetone	3.891	43	124446	274.484	ug/l		93
17) Carbon Disulfide	4.110	76	412873	53.502	ug/l		100
18) Methyl Acetate	4.397	43	61387	42.944	ug/l	#	91
19) Methyl tert-butyl Ether	5.128	73	339482	52.026	ug/l		94
20) Methylene Chloride	4.622	84	135048	46.098	ug/l		92
21) trans-1,2-Dichloroethene	5.128	96	139138	53.266	ug/l		91
22) Diisopropyl ether	6.031	45	412983	47.129	ug/l		98
23) Vinyl Acetate	5.970	43	1279163	241.628	ug/l		97
24) 1,1-Dichloroethane	5.921	63	251699	51.413	ug/l		99
25) 2-Butanone	6.908	43	182592	240.768	ug/l		98
26) 2,2-Dichloropropane	6.896	77	229889	52.796	ug/l		100
27) cis-1,2-Dichloroethene	6.896	96	164793	54.670	ug/l		96
28) Bromochloromethane	7.250	49	100083	47.928	ug/l		95
29) Tetrahydrofuran	7.274	42	115013	235.730	ug/l		93
30) Chloroform	7.427	83	251591	53.578	ug/l		94
31) Cyclohexane	7.713	56	236552	48.361	ug/l		96
32) 1,1,1-Trichloroethane	7.628	97	224345	52.075	ug/l		99
36) 1,1-Dichloropropene	7.847	75	193158	53.349	ug/l		99
37) Ethyl Acetate	6.994	43	83173	47.744	ug/l	#	96
38) Carbon Tetrachloride	7.829	117	199987	53.361	ug/l		99
39) Methylcyclohexane	9.115	83	262827	54.032	ug/l		97
40) Benzene	8.085	78	572541	53.342	ug/l		99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022407.D
Acq On : 23 May 2025 14:34
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Quant Time: May 23 23:19:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	7.232	41	49714	43.021 ug/l #	86
42) 1,2-Dichloroethane	8.164	62	150005	51.680 ug/l	99
43) Isopropyl Acetate	8.207	43	180176	47.424 ug/l	96
44) Trichloroethene	8.872	130	142169	53.270 ug/l	95
45) 1,2-Dichloropropane	9.146	63	133774	51.695 ug/l	97
46) Dibromomethane	9.237	93	74785	53.582 ug/l	100
47) Bromodichloromethane	9.432	83	192142	53.066 ug/l	99
48) Methyl methacrylate	9.225	41	82263	46.300 ug/l	92
49) 1,4-Dioxane	9.243	88	15964	1012.465 ug/l	91
51) 4-Methyl-2-Pentanone	10.005	43	444290	238.329 ug/l	94
52) Toluene	10.176	92	363814	53.527 ug/l	100
53) t-1,3-Dichloropropene	10.402	75	179206	50.715 ug/l	99
54) cis-1,3-Dichloropropene	9.865	75	211578	52.261 ug/l	95
55) 1,1,2-Trichloroethane	10.579	97	95964	53.693 ug/l	97
56) Ethyl methacrylate	10.444	69	143099	51.400 ug/l	96
57) 1,3-Dichloropropane	10.725	76	168420	53.037 ug/l	100
58) 2-Chloroethyl Vinyl ether	9.719	63	319778	255.904 ug/l	97
59) 2-Hexanone	10.768	43	305492	244.413 ug/l	96
60) Dibromochloromethane	10.920	129	124963	53.868 ug/l	100
61) 1,2-Dibromoethane	11.017	107	89675	53.833 ug/l	99
64) Tetrachloroethene	10.652	164	148025	50.091 ug/l	99
65) Chlorobenzene	11.450	112	380959	52.815 ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.523	131	129105	52.064 ug/l	99
67) Ethyl Benzene	11.523	91	709631	52.532 ug/l	98
68) m/p-Xylenes	11.633	106	541165	106.314 ug/l	98
69) o-Xylene	11.962	106	254806	52.908 ug/l	96
70) Styrene	11.975	104	426601	52.512 ug/l	98
71) Bromoform	12.139	173	67751	50.619 ug/l #	100
73) Isopropylbenzene	12.261	105	664453	51.371 ug/l	100
74) N-amyl acetate	12.072	43	169349	45.779 ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.511	83	104308	52.437 ug/l	99
76) 1,2,3-Trichloropropane	12.560	75	146294	92.489 ug/l #	100
77) Bromobenzene	12.536	156	139511	50.501 ug/l	98
78) n-propylbenzene	12.603	91	809774	51.904 ug/l	100
79) 2-Chlorotoluene	12.682	91	427999	49.921 ug/l	98
80) 1,3,5-Trimethylbenzene	12.743	105	525917	50.370 ug/l	99
81) trans-1,4-Dichloro-2-b...	12.310	75	36785	47.111 ug/l	97
82) 4-Chlorotoluene	12.779	91	439995	49.894 ug/l	97
83) tert-Butylbenzene	13.005	119	474547	51.135 ug/l	98
84) 1,2,4-Trimethylbenzene	13.048	105	526654	50.812 ug/l	98
85) sec-Butylbenzene	13.182	105	714168	51.842 ug/l	100
86) p-Isopropyltoluene	13.298	119	606476	52.345 ug/l	98
87) 1,3-Dichlorobenzene	13.291	146	289621	51.356 ug/l	99
88) 1,4-Dichlorobenzene	13.371	146	275777	50.838 ug/l	98
89) n-Butylbenzene	13.621	91	571460	52.136 ug/l	99
90) Hexachloroethane	13.883	117	116364	49.754 ug/l	98
91) 1,2-Dichlorobenzene	13.663	146	241462	50.973 ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.279	75	15803	49.266 ug/l	97
93) 1,2,4-Trichlorobenzene	14.925	180	136047	49.720 ug/l	99
94) Hexachlorobutadiene	15.029	225	75960	49.779 ug/l	99
95) Naphthalene	15.151	128	261527	50.366 ug/l	100
96) 1,2,3-Trichlorobenzene	15.334	180	116775	50.307 ug/l	98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022407.D
Acq On : 23 May 2025 14:34
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Quant Time: May 23 23:19:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

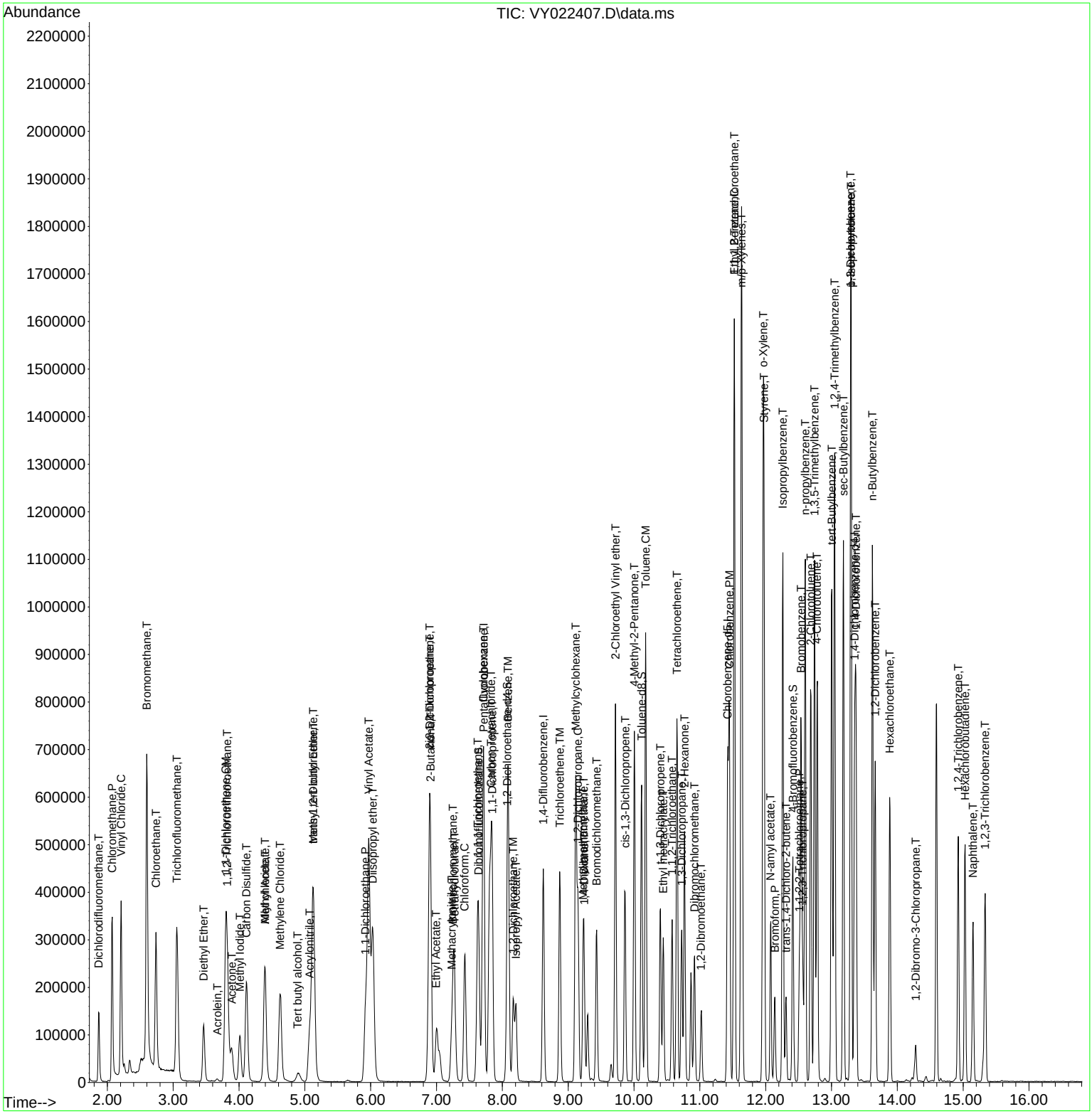
(#) = qualifier out of range (m) = manual integration (+) = signals summed

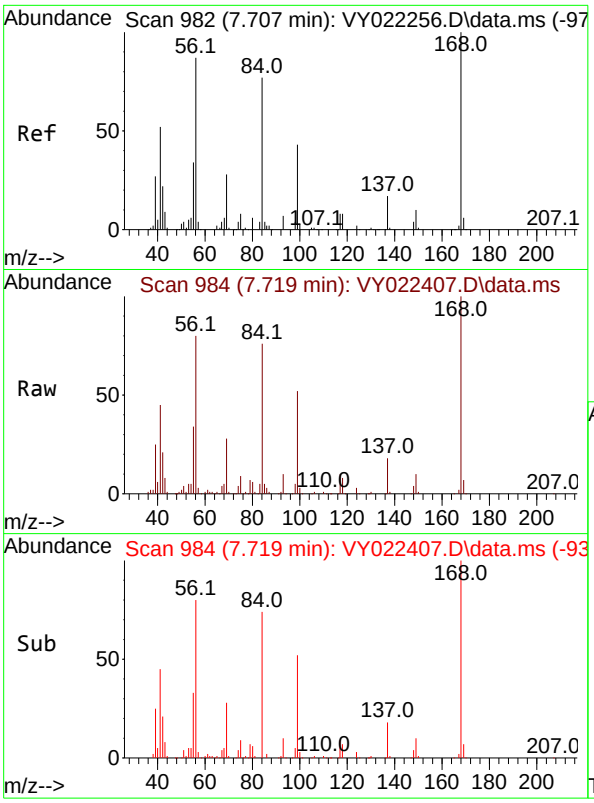
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022407.D
Acq On : 23 May 2025 14:34
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Quant Time: May 23 23:19:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration



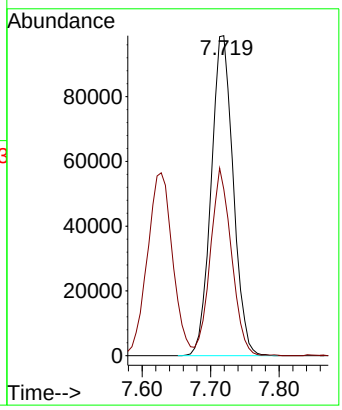


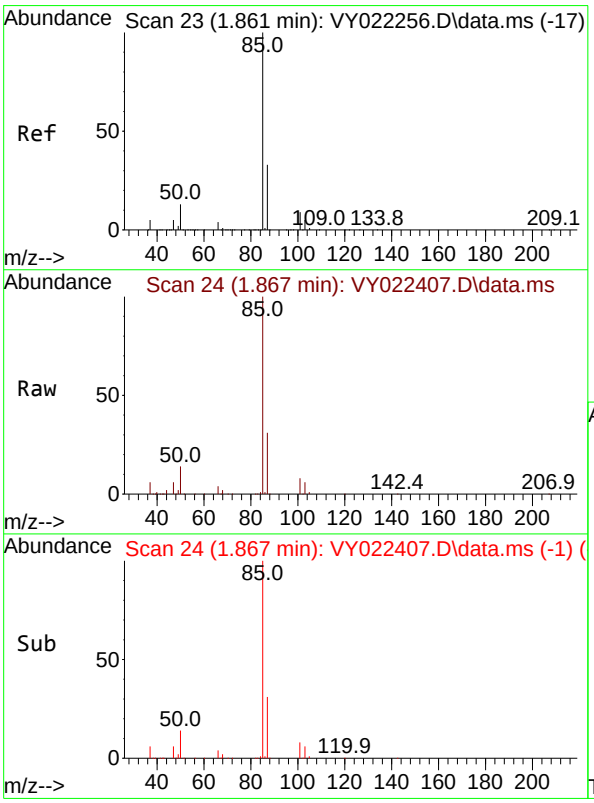
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.719 min Scan# 9
Delta R.T. 0.012 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:168 Resp: 221240

Ion	Ratio	Lower	Upper
168	100		
99	51.8	44.2	66.4

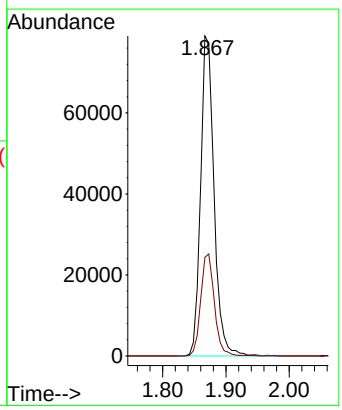


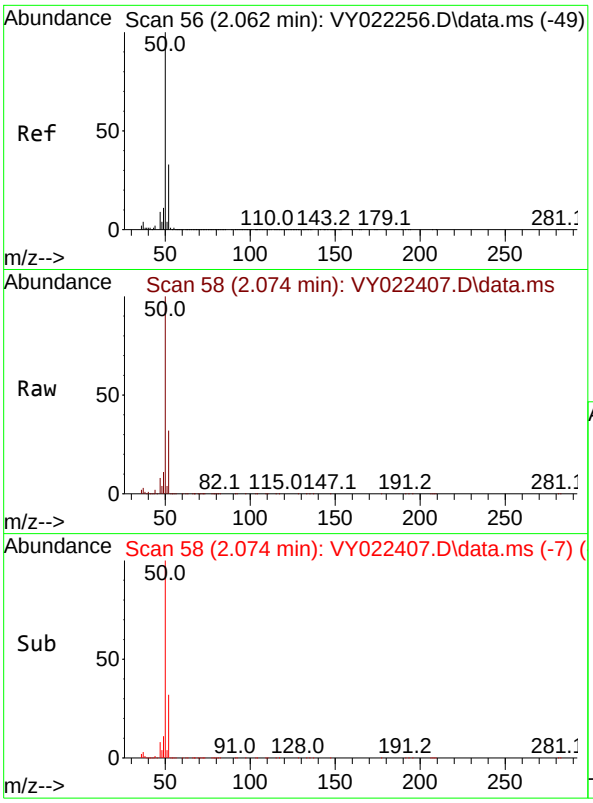


#2
Dichlorodifluoromethane
Concen: 50.667 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 85 Resp: 116968

Ion	Ratio	Lower	Upper
85	100		
87	30.8	16.5	49.5



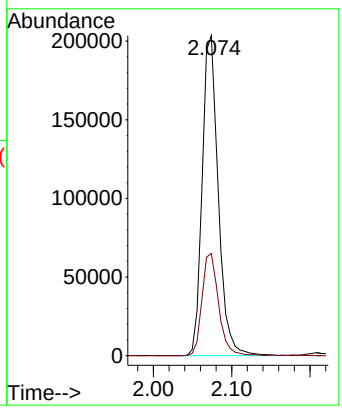


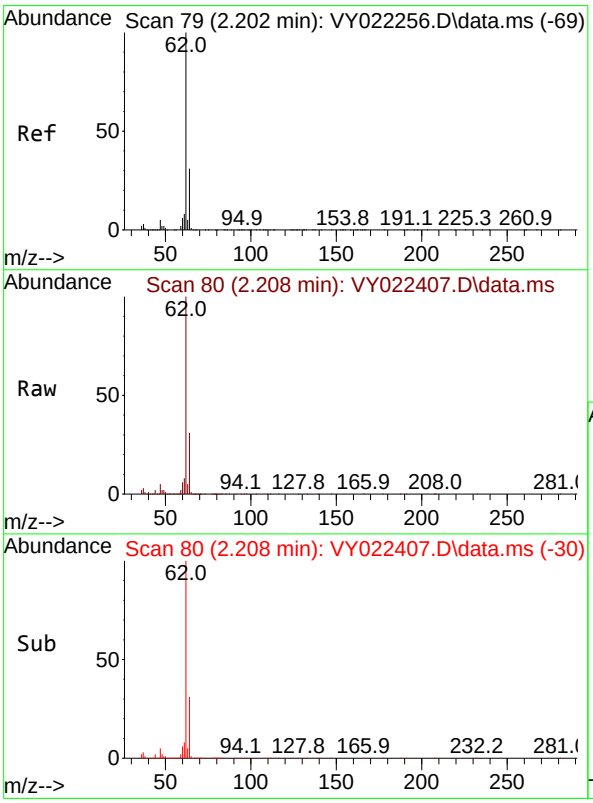
#3
Chloromethane
Concen: 59.771 ug/l
RT: 2.074 min Scan# 5
Delta R.T. 0.012 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 50 Resp: 290256

Ion	Ratio	Lower	Upper
50	100		
52	32.0	26.5	39.7

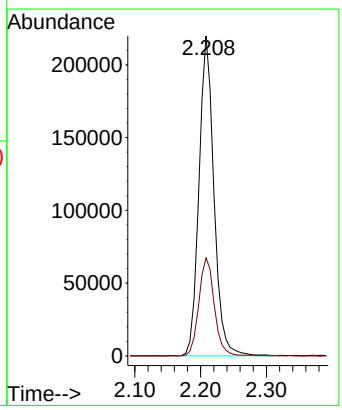


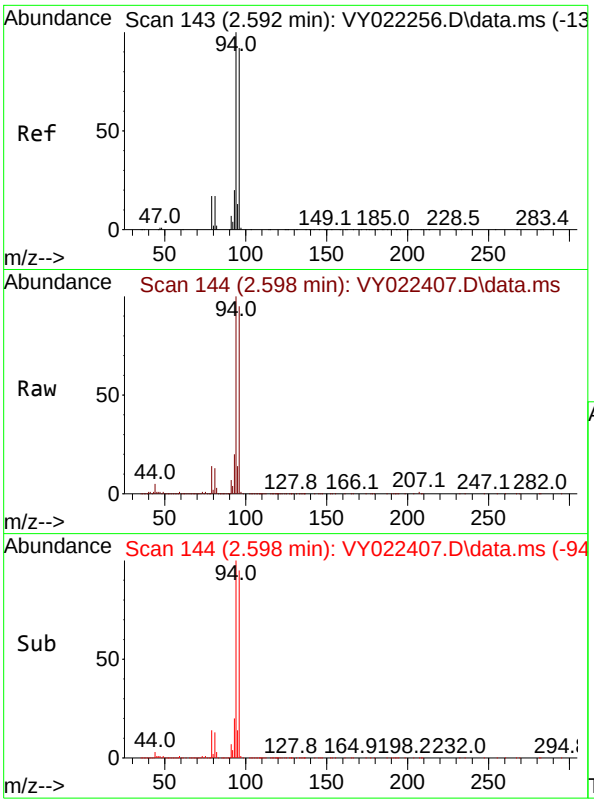


#4
Vinyl Chloride
Concen: 63.990 ug/l
RT: 2.208 min Scan# 80
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 62 Resp: 347178

Ion	Ratio	Lower	Upper
62	100		
64	30.7	24.5	36.7



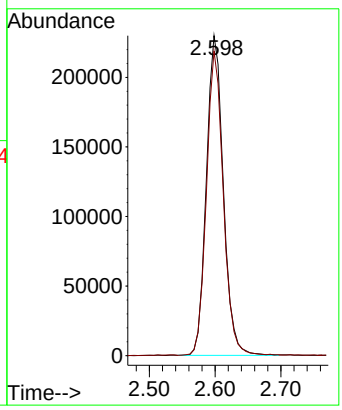


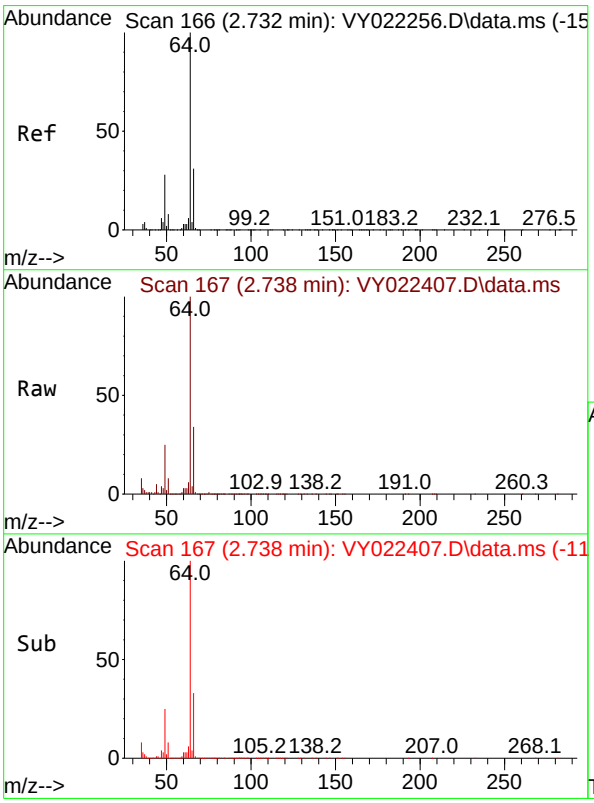
#5
Bromomethane
Concen: 93.610 ug/l
RT: 2.598 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 94 Resp: 413446

Ion	Ratio	Lower	Upper
94	100		
96	95.1	73.4	110.0

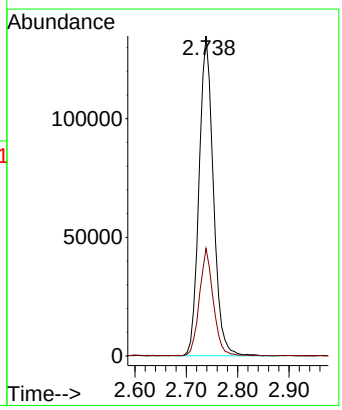


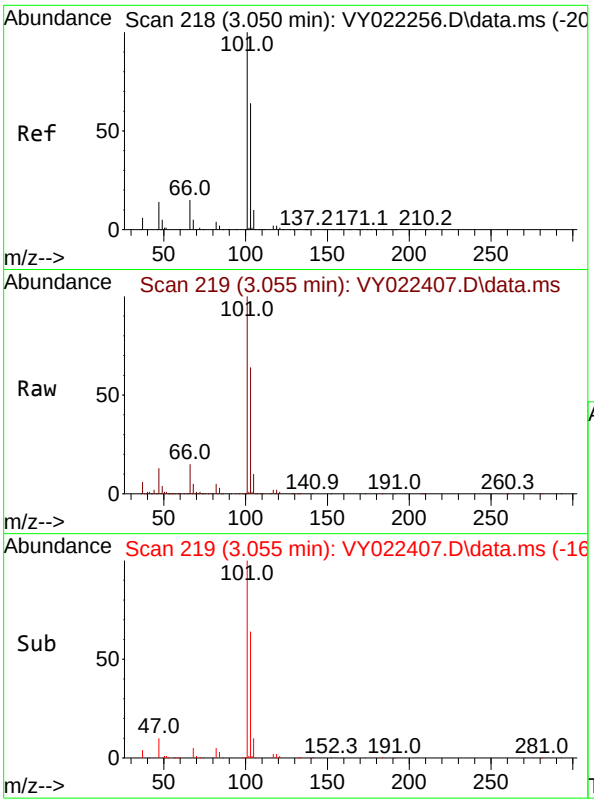


#6
Chloroethane
Concen: 76.947 ug/l
RT: 2.738 min Scan# 167
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 64 Resp: 259722

Ion	Ratio	Lower	Upper
64	100		
66	33.5	24.8	37.2



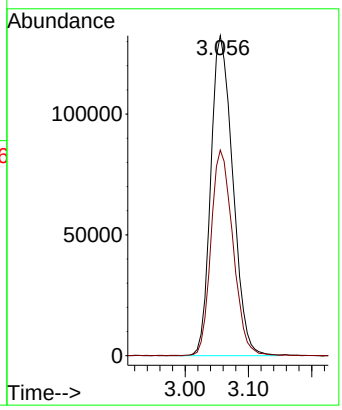


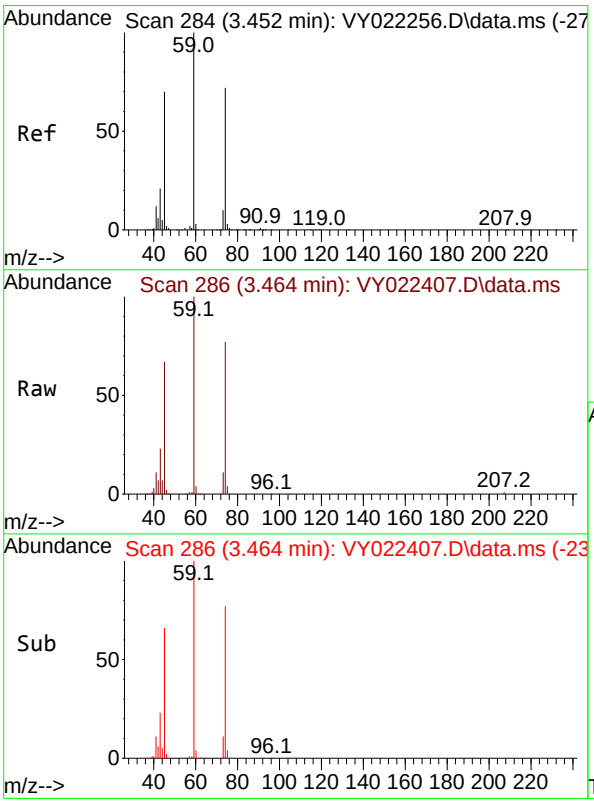
#7
Trichlorofluoromethane
Concen: 58.240 ug/l
RT: 3.055 min Scan# 21
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 319919

Ion	Ratio	Lower	Upper
101	100		
103	64.2	51.7	77.5

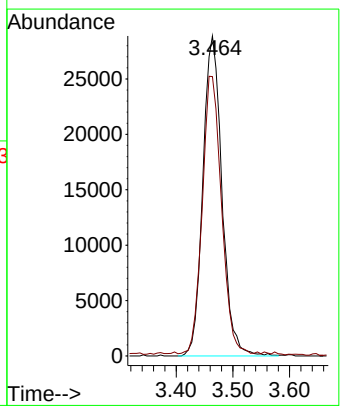


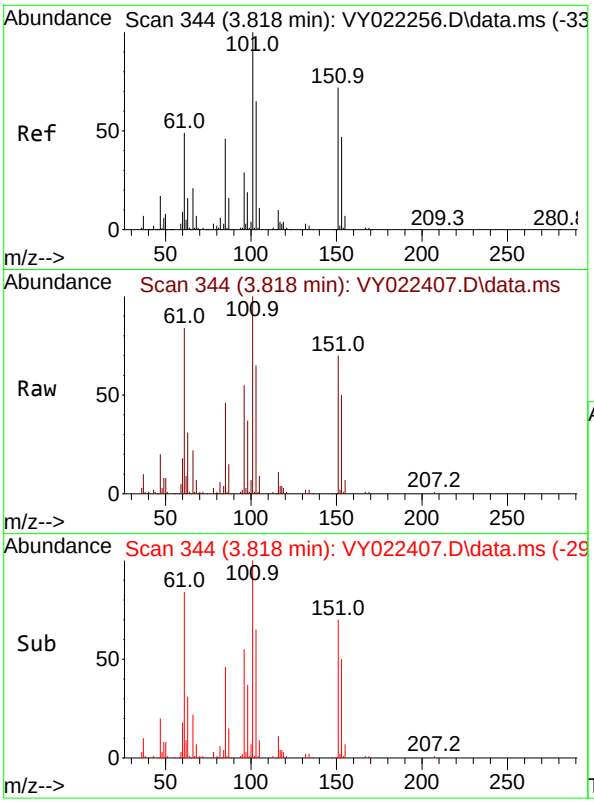


#8
Diethyl Ether
Concen: 51.162 ug/l
RT: 3.464 min Scan# 286
Delta R.T. 0.012 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 74 Resp: 67445

Ion	Ratio	Lower	Upper
74	100		
45	87.1	48.6	145.8



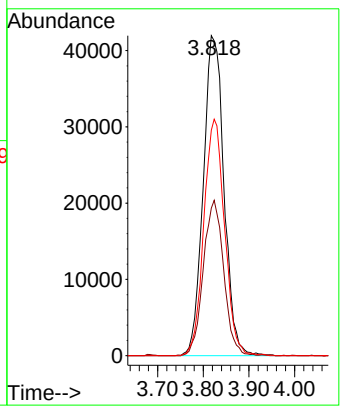


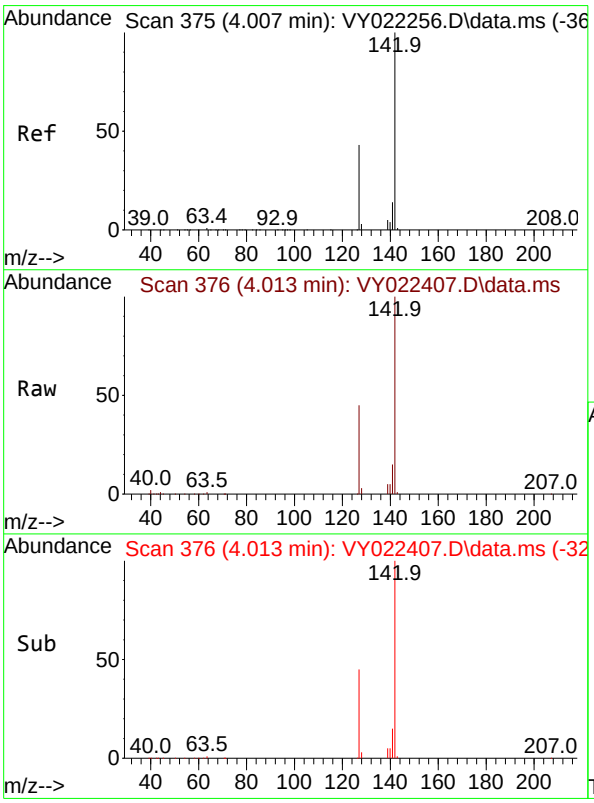
#9
1,1,2-Trichlorotrifluoroethane
Concen: 55.449 ug/l
RT: 3.818 min Scan# 34
Delta R.T. -0.000 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 132232

Ion	Ratio	Lower	Upper
101	100		
85	47.8	38.6	58.0
151	74.1	59.7	89.5

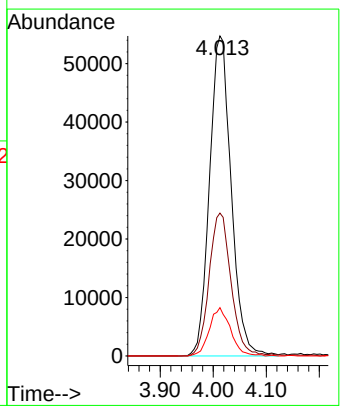


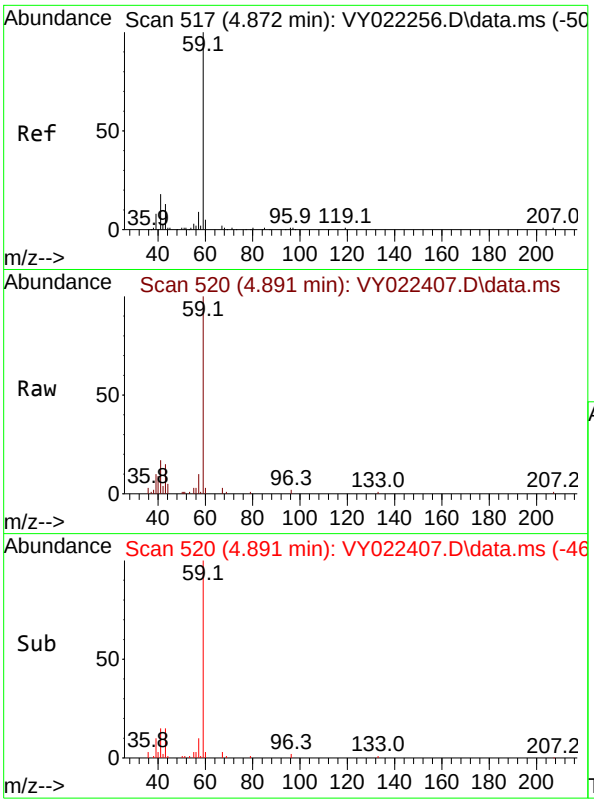


#10
Methyl Iodide
Concen: 56.212 ug/l
RT: 4.013 min Scan# 376
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion:142 Resp: 155151

Ion	Ratio	Lower	Upper
142	100		
127	45.1	35.7	53.5
141	14.8	11.1	16.7



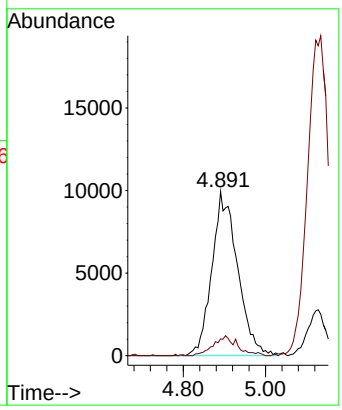


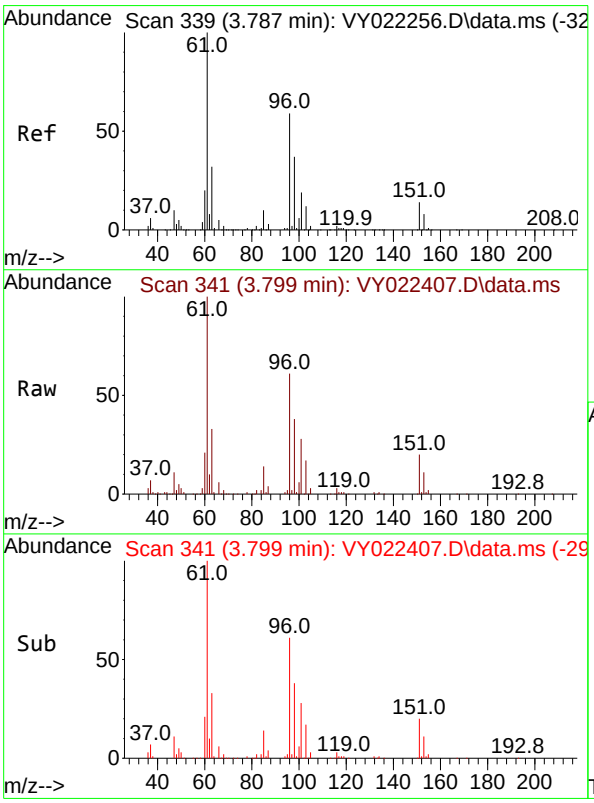
#11
Tert butyl alcohol
Concen: 233.304 ug/l
RT: 4.891 min Scan# 5
Delta R.T. 0.018 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 59 Resp: 43078

Ion	Ratio	Lower	Upper
59	100		
57	11.4	0.0	0.0#

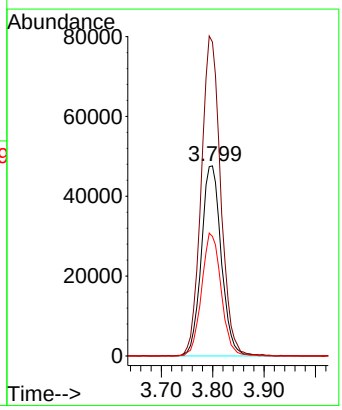


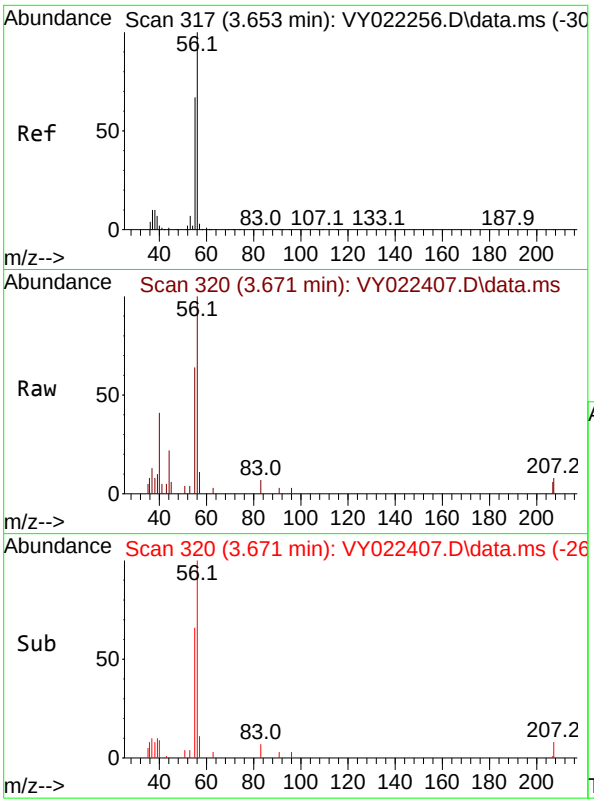


#12
1,1-Dichloroethene
Concen: 54.199 ug/l
RT: 3.799 min Scan# 341
Delta R.T. 0.012 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 96 Resp: 128262

Ion	Ratio	Lower	Upper
96	100		
61	165.1	134.9	202.3
98	62.9	49.9	74.9



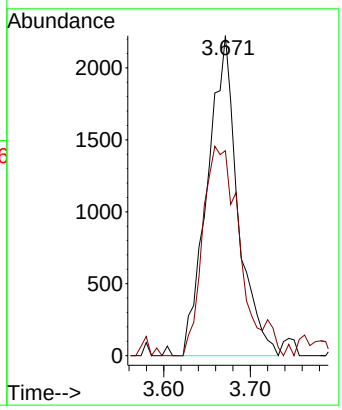


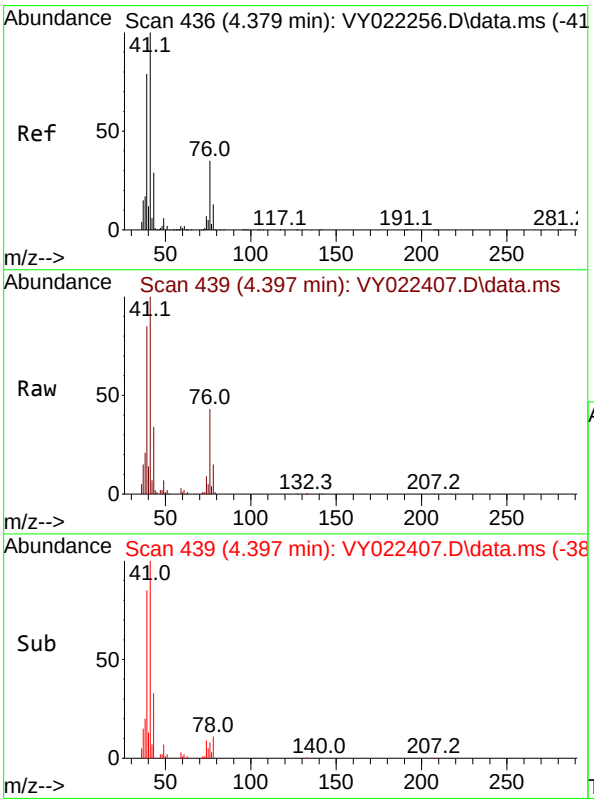
#13
Acrolein
Concen: 20.087 ug/l
RT: 3.671 min Scan# 3
Delta R.T. 0.018 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 56 Resp: 5422

Ion	Ratio	Lower	Upper
56	100		
55	80.3	55.6	83.4

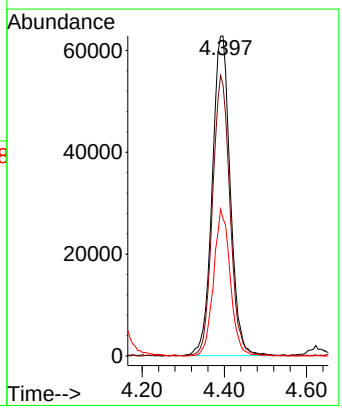


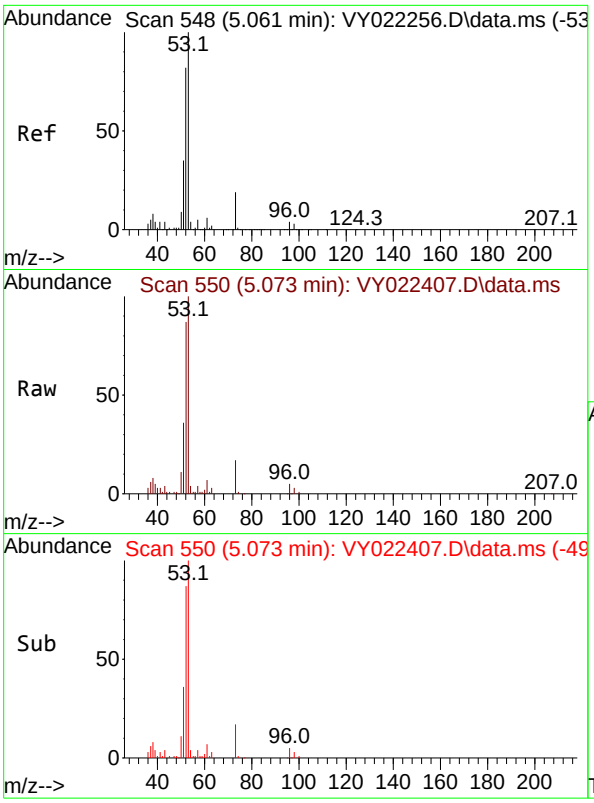


#14
Allyl chloride
Concen: 46.134 ug/l
RT: 4.397 min Scan# 439
Delta R.T. 0.018 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 41 Resp: 191433

Ion	Ratio	Lower	Upper
41	100		
39	84.6	63.4	95.0
76	42.4	29.5	44.3



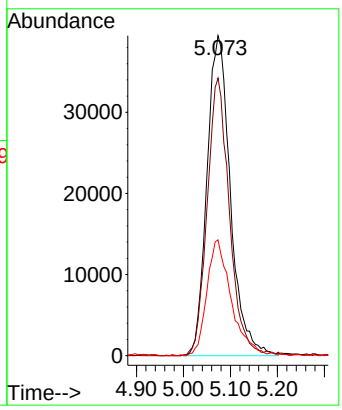


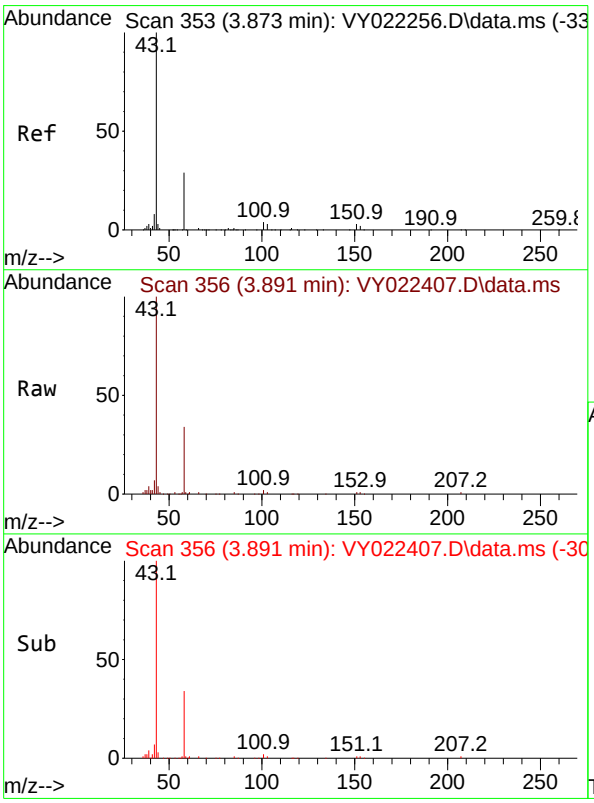
#15
Acrylonitrile
Concen: 251.450 ug/l
RT: 5.073 min Scan# 5
Delta R.T. 0.012 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 53 Resp: 136585

Ion	Ratio	Lower	Upper
53	100		
52	82.0	66.1	99.1
51	37.5	30.0	45.0

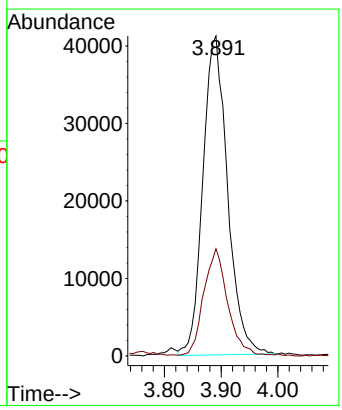


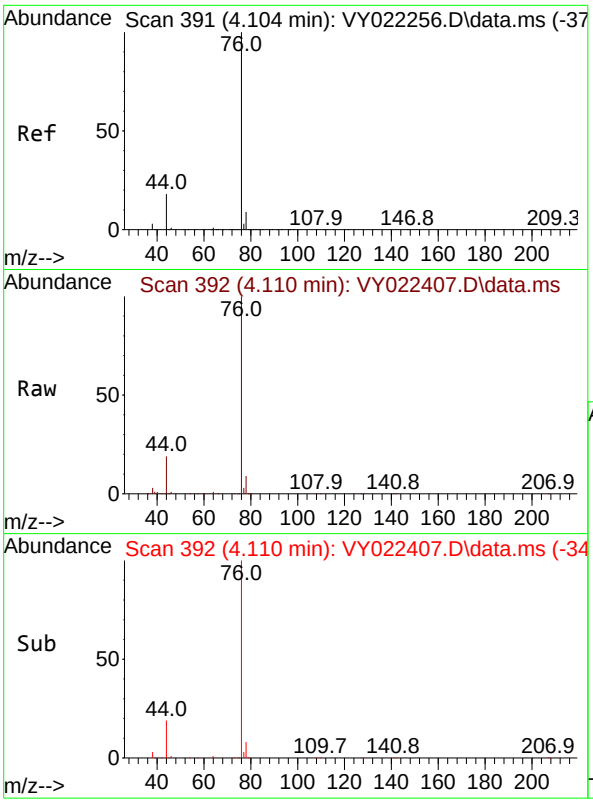


#16
Acetone
Concen: 274.484 ug/l
RT: 3.891 min Scan# 356
Delta R.T. 0.018 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 43 Resp: 124446

Ion	Ratio	Lower	Upper
43	100		
58	33.5	23.6	35.4



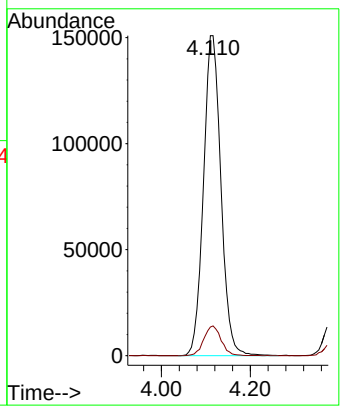


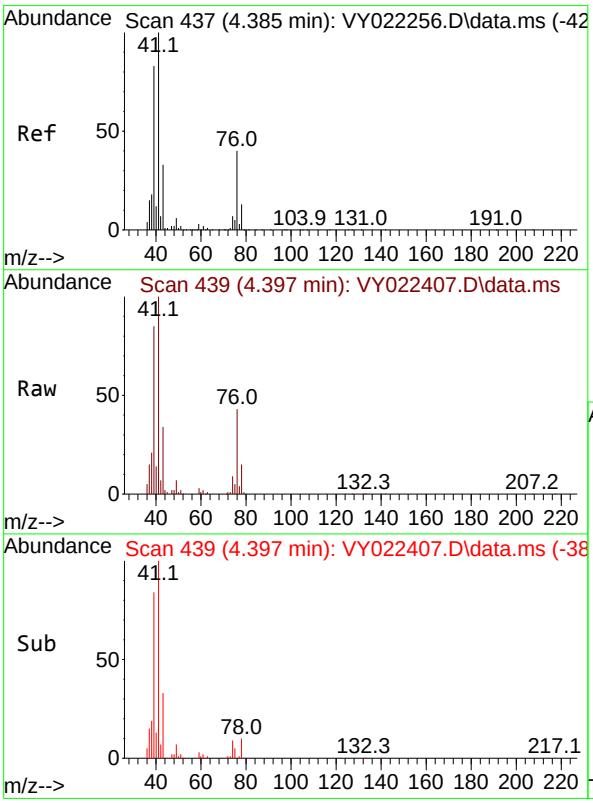
#17
Carbon Disulfide
Concen: 53.502 ug/l
RT: 4.110 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 412873

Ion	Ratio	Lower	Upper
76	100		
78	9.0	7.2	10.8

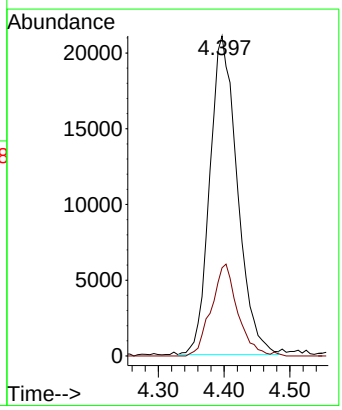


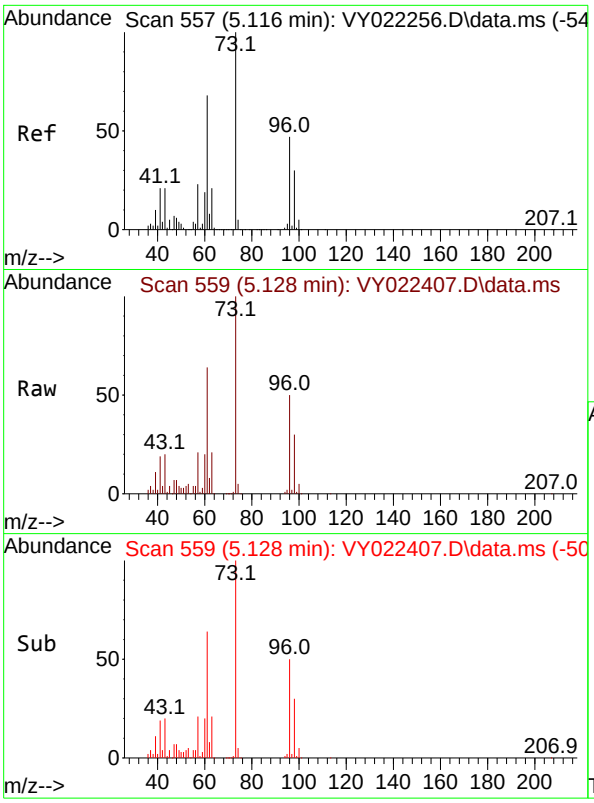


#18
Methyl Acetate
Concen: 42.944 ug/l
RT: 4.397 min Scan# 439
Delta R.T. 0.012 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 43 Resp: 61387

Ion	Ratio	Lower	Upper
43	100		
74	27.4	18.2	27.4#



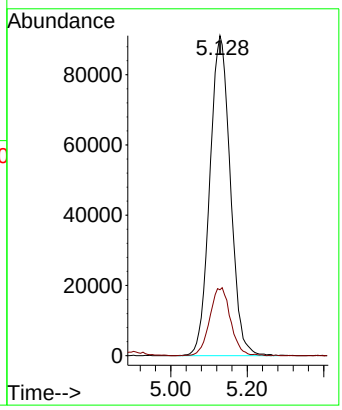


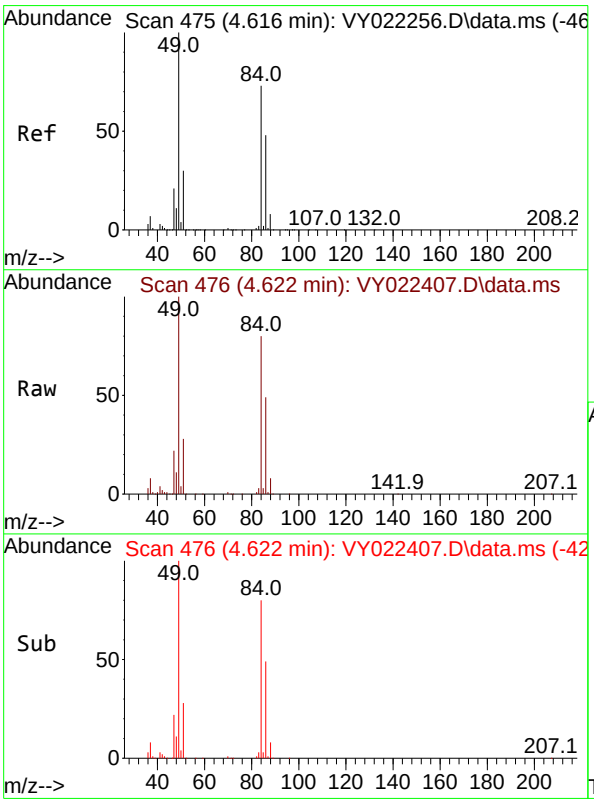
#19
Methyl tert-butyl Ether
Concen: 52.026 ug/l
RT: 5.128 min Scan# 5
Delta R.T. 0.012 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 73 Resp: 339482

Ion	Ratio	Lower	Upper
73	100		
57	20.5	18.6	28.0

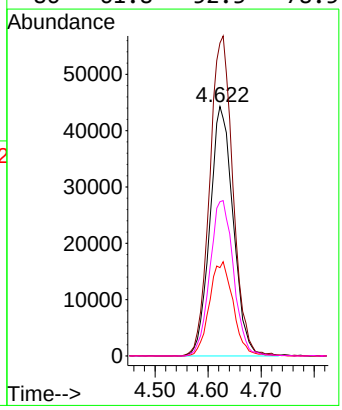


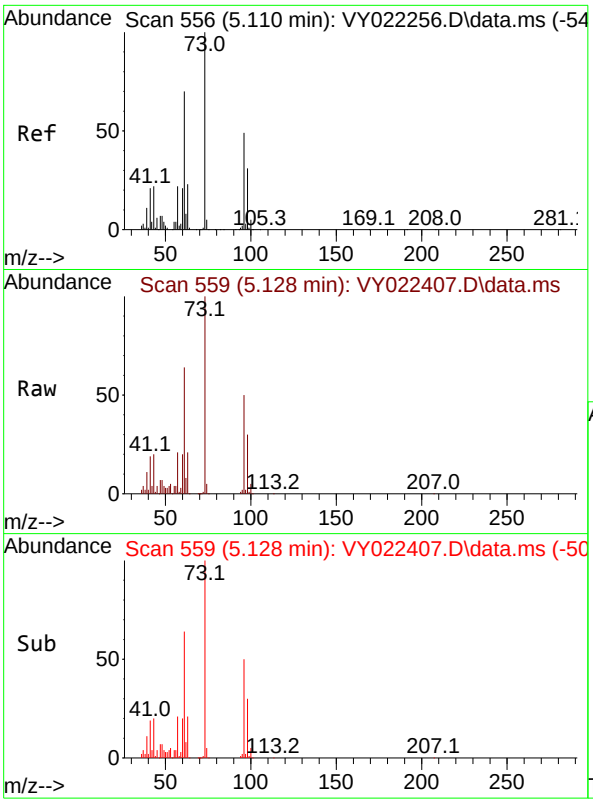


#20
Methylene Chloride
Concen: 46.098 ug/l
RT: 4.622 min Scan# 476
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 84 Resp: 135048

Ion	Ratio	Lower	Upper
84	100		
49	125.4	109.6	164.4
51	35.4	32.4	48.6
86	61.8	52.3	78.5



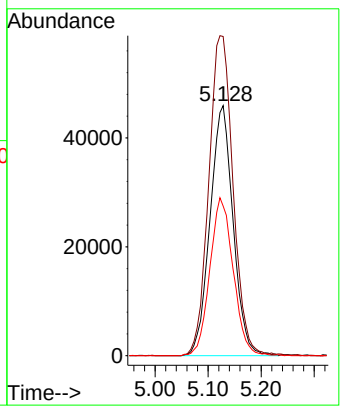


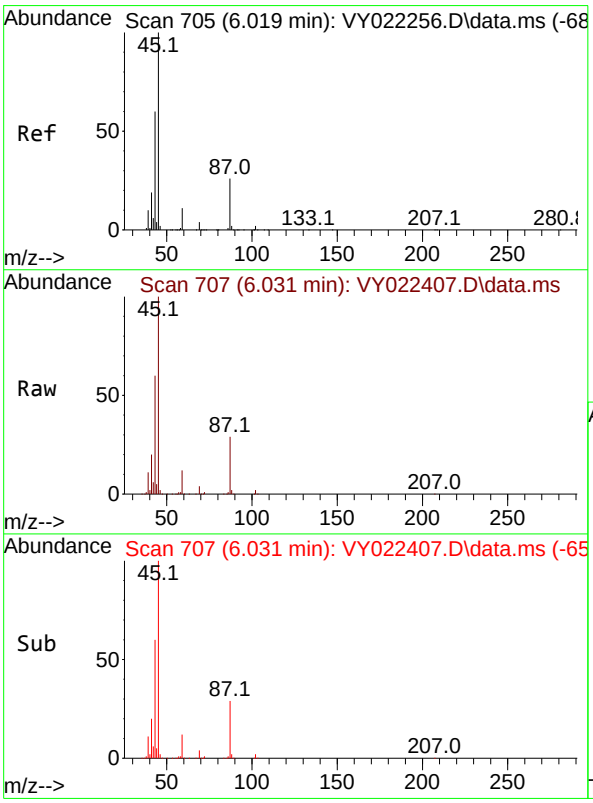
#21
trans-1,2-Dichloroethene
Concen: 53.266 ug/l
RT: 5.128 min Scan# 5
Delta R.T. 0.018 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 96 Resp: 139138

Ion	Ratio	Lower	Upper
96	100		
61	127.7	113.4	170.0
98	59.9	50.9	76.3

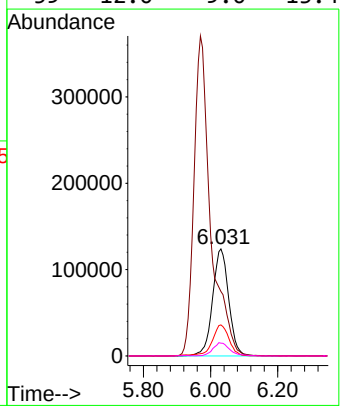


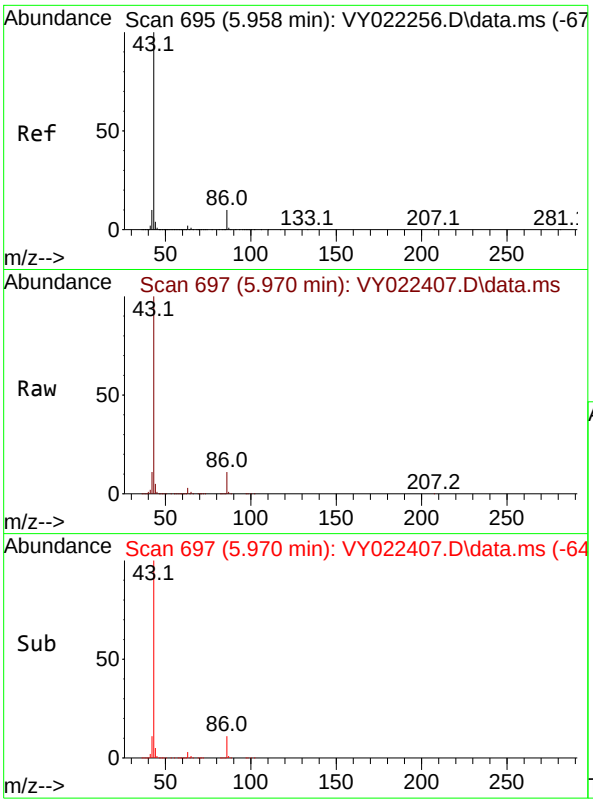


#22
Diisopropyl ether
Concen: 47.129 ug/l
RT: 6.031 min Scan# 707
Delta R.T. 0.012 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 45 Resp: 412983

Ion	Ratio	Lower	Upper
45	100		
43	60.0	48.2	72.2
87	29.0	21.4	32.0
59	12.0	9.0	13.4



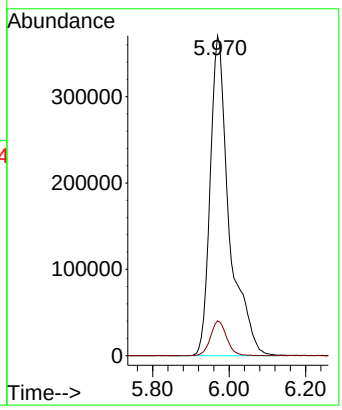


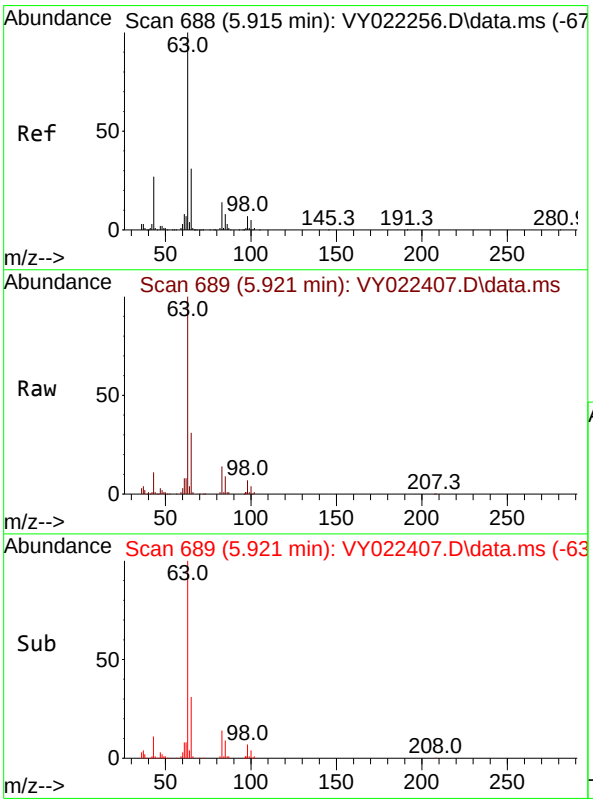
#23
Vinyl Acetate
Concen: 241.628 ug/l
RT: 5.970 min Scan# 6
Delta R.T. 0.012 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 1279163

Ion	Ratio	Lower	Upper
43	100		
86	10.9	7.8	11.8

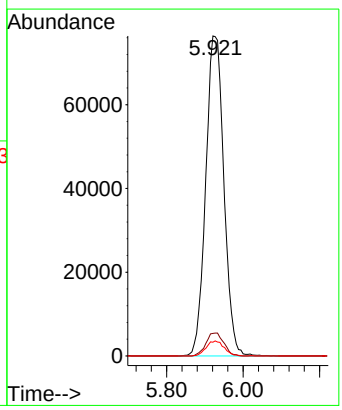


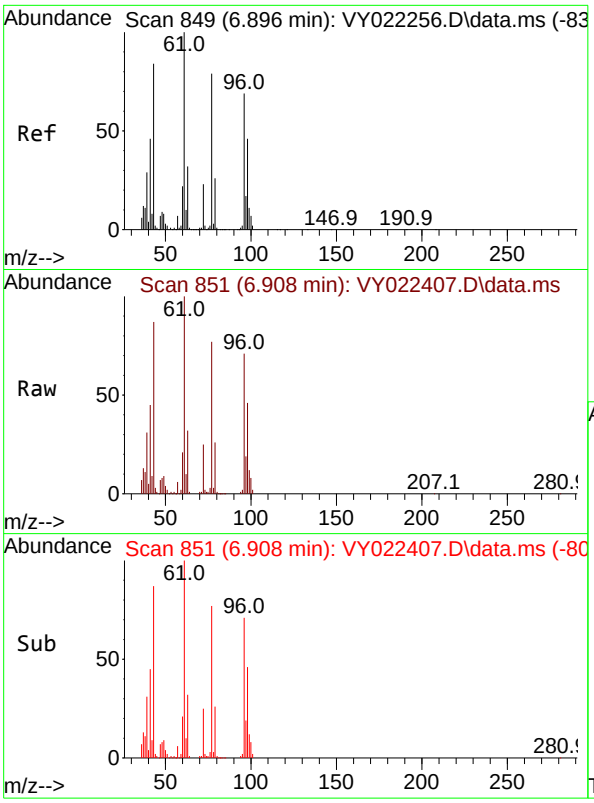


#24
1,1-Dichloroethane
Concen: 51.413 ug/l
RT: 5.921 min Scan# 689
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 63 Resp: 251699

Ion	Ratio	Lower	Upper
63	100		
98	7.1	3.5	10.5
100	4.3	2.4	7.2



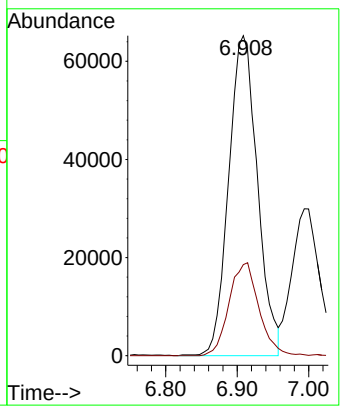


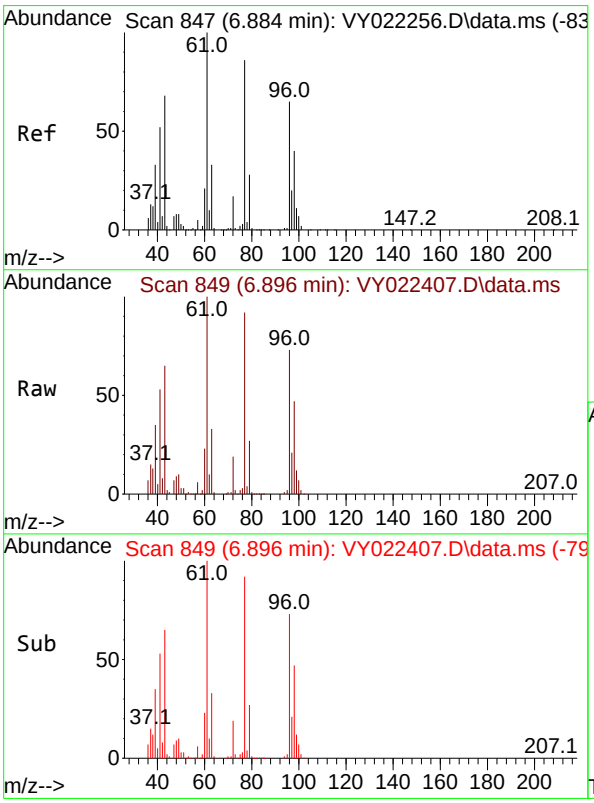
#25
2-Butanone
Concen: 240.768 ug/l
RT: 6.908 min Scan# 8
Delta R.T. 0.012 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 182592

Ion	Ratio	Lower	Upper
43	100		
72	28.5	22.1	33.1

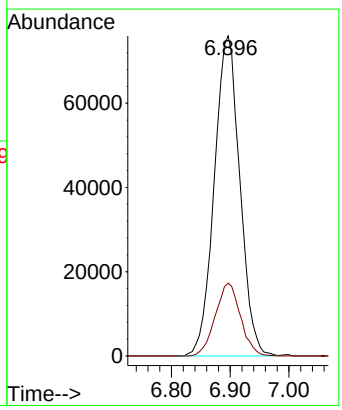


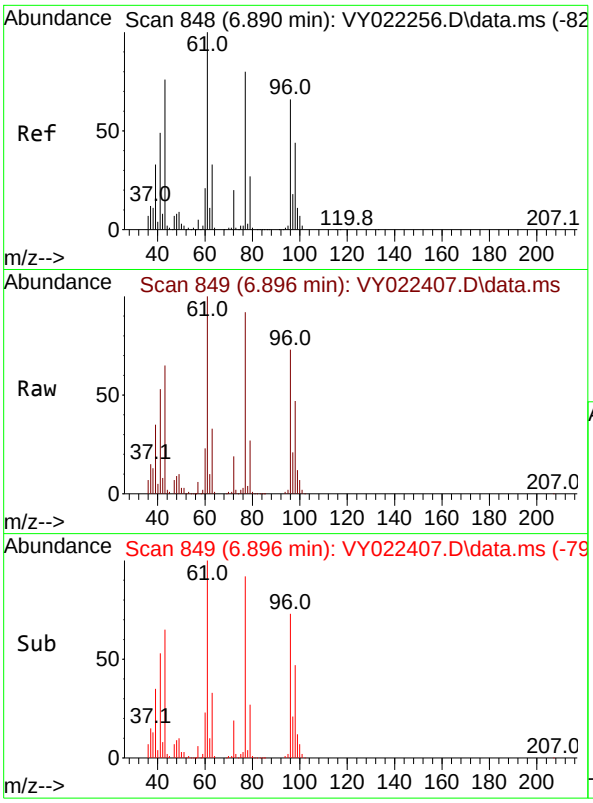


#26
2,2-Dichloropropane
Concen: 52.796 ug/l
RT: 6.896 min Scan# 849
Delta R.T. 0.012 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 77 Resp: 229889

Ion	Ratio	Lower	Upper
77	100		
97	22.4	11.2	33.5



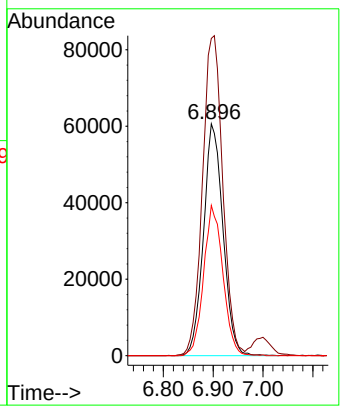


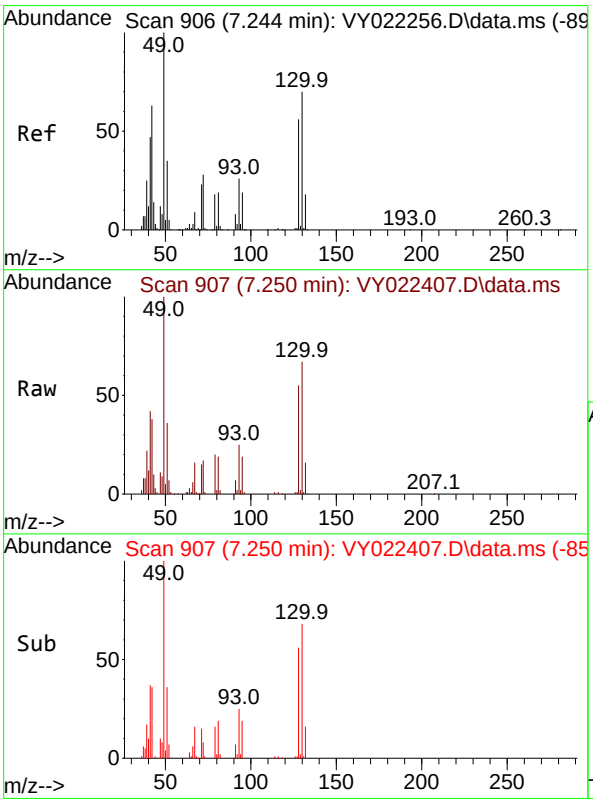
#27
cis-1,2-Dichloroethene
Concen: 54.670 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 96 Resp: 164793

Ion	Ratio	Lower	Upper
96	100		
61	143.6	0.0	302.6
98	63.9	0.0	128.8

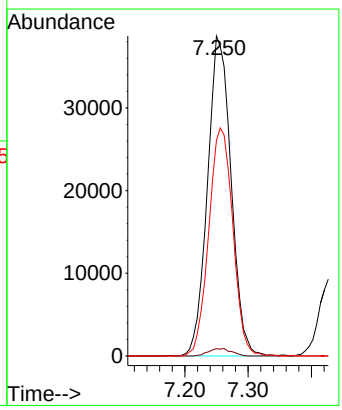


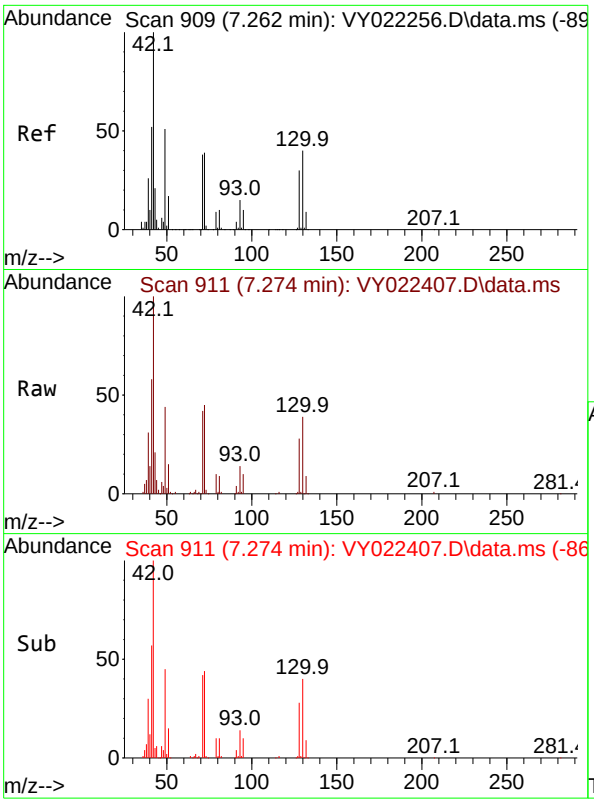


#28
Bromochloromethane
Concen: 47.928 ug/l
RT: 7.250 min Scan# 907
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 49 Resp: 100083

Ion	Ratio	Lower	Upper
49	100		
129	2.3	0.0	3.6
130	72.7	54.7	82.1



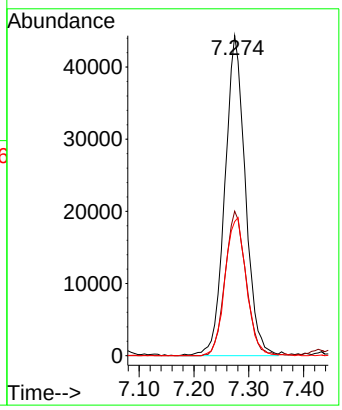


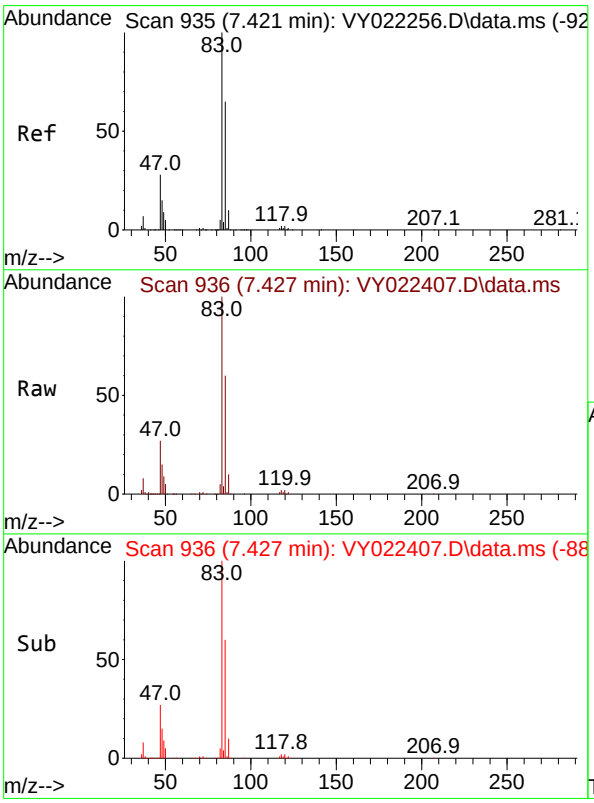
#29
Tetrahydrofuran
Concen: 235.730 ug/l
RT: 7.274 min Scan# 91
Delta R.T. 0.012 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 42 Resp: 115013

Ion	Ratio	Lower	Upper
42	100		
72	46.1	33.8	50.6
71	44.9	31.5	47.3

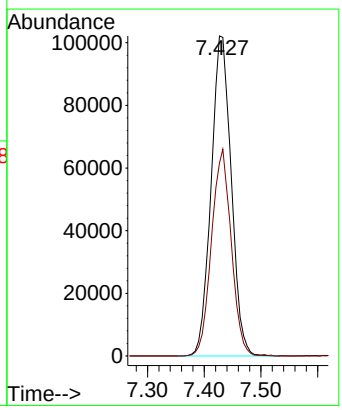


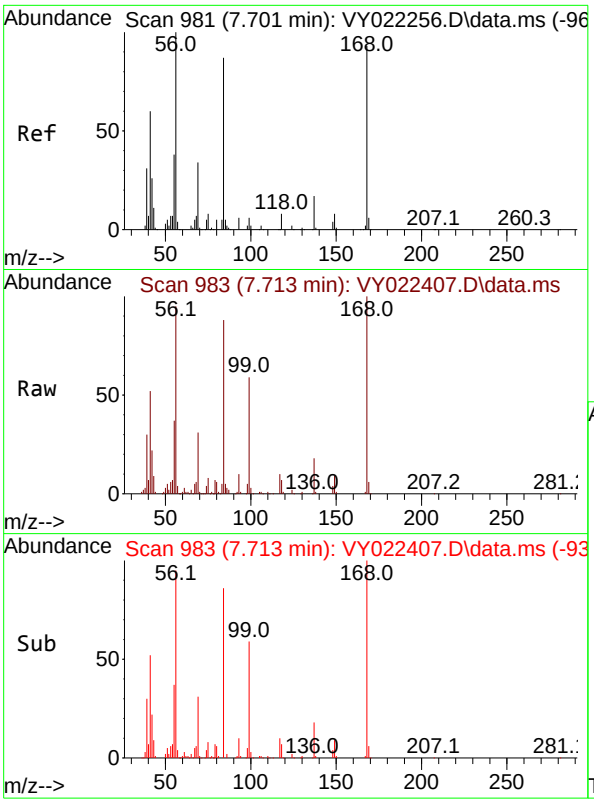


#30
Chloroform
Concen: 53.578 ug/l
RT: 7.427 min Scan# 936
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 83 Resp: 251591

Ion	Ratio	Lower	Upper
83	100		
85	60.2	51.8	77.8



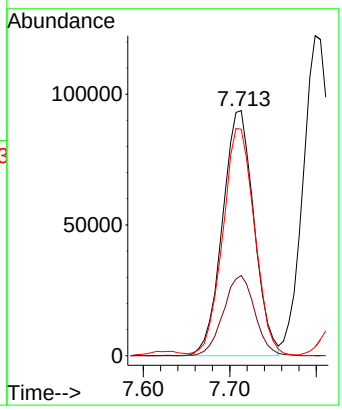


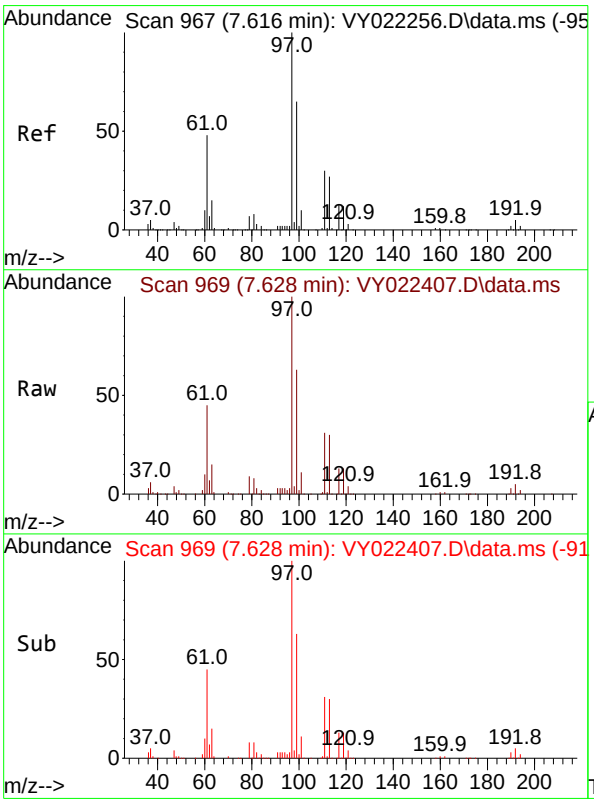
#31
Cyclohexane
Concen: 48.361 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.012 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 56 Resp: 236552

Ion	Ratio	Lower	Upper
56	100		
69	32.7	27.4	41.2
84	91.2	70.0	105.0

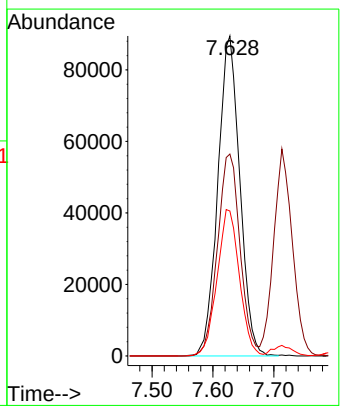


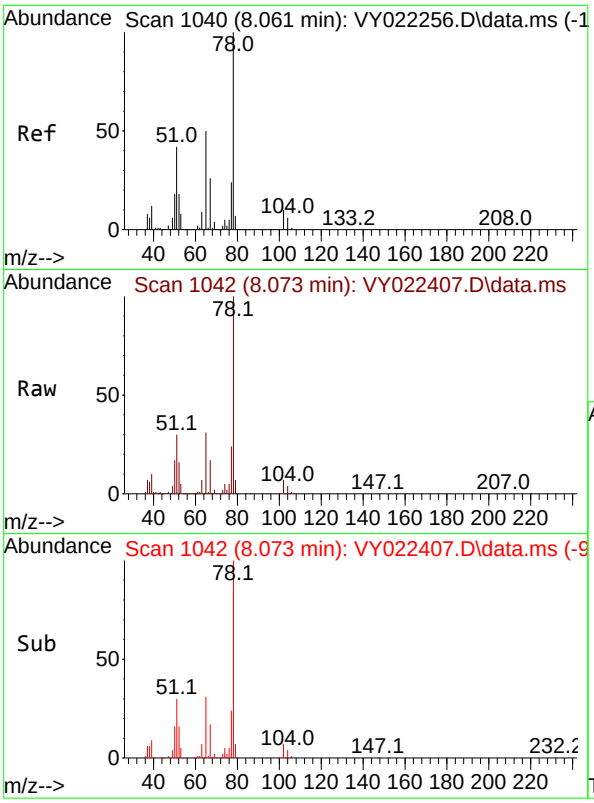


#32
1,1,1-Trichloroethane
Concen: 52.075 ug/l
RT: 7.628 min Scan# 969
Delta R.T. 0.012 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 97 Resp: 224345

Ion	Ratio	Lower	Upper
97	100		
99	64.9	51.4	77.0
61	46.5	38.1	57.1



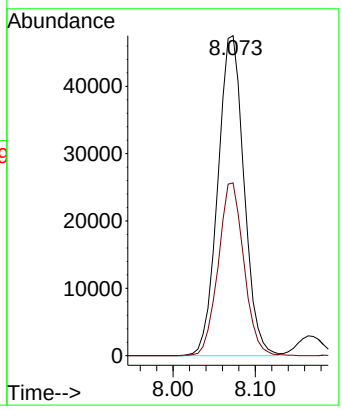


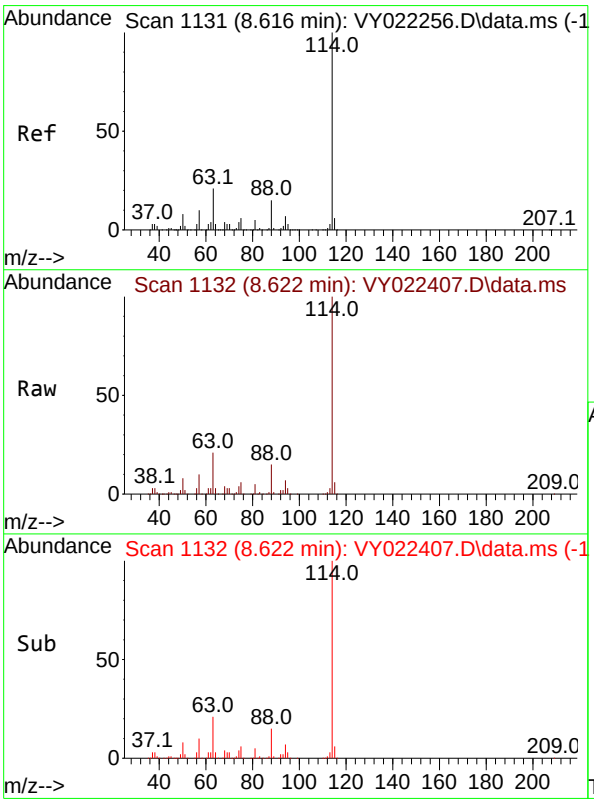
#33
1,2-Dichloroethane-d4
Concen: 43.448 ug/l
RT: 8.073 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 65 Resp: 105056

Ion	Ratio	Lower	Upper
65	100		
67	53.0	0.0	104.6

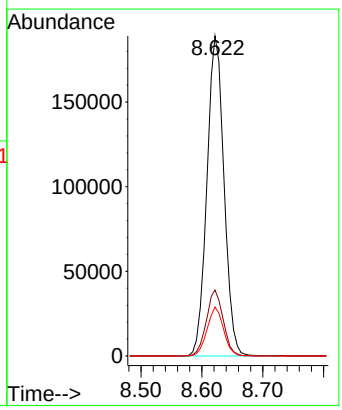


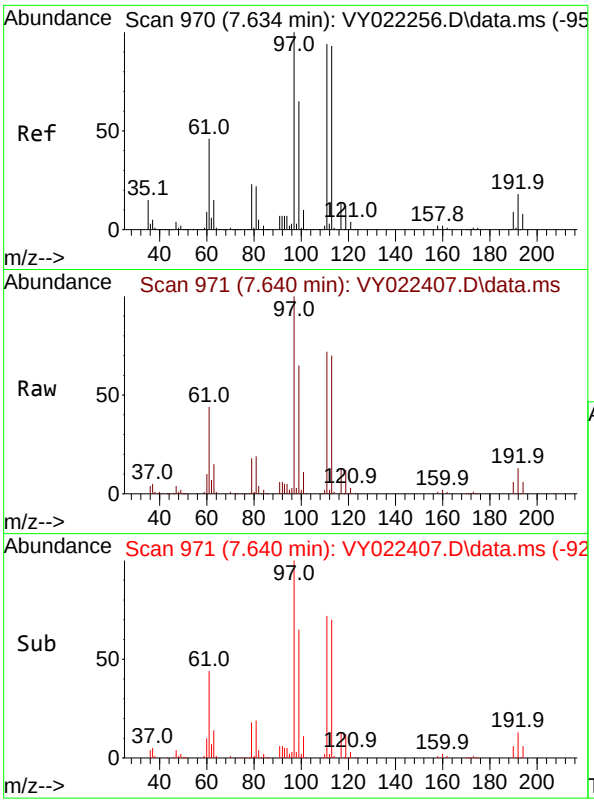


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.622 min Scan# 1132
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion:114 Resp: 368290

Ion	Ratio	Lower	Upper
114	100		
63	20.6	0.0	41.0
88	15.3	0.0	29.4



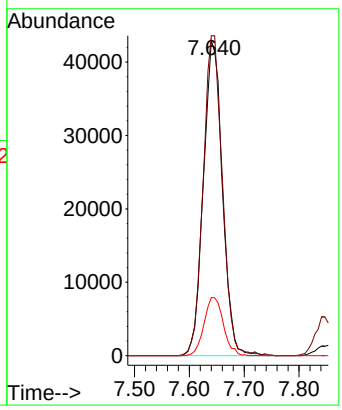


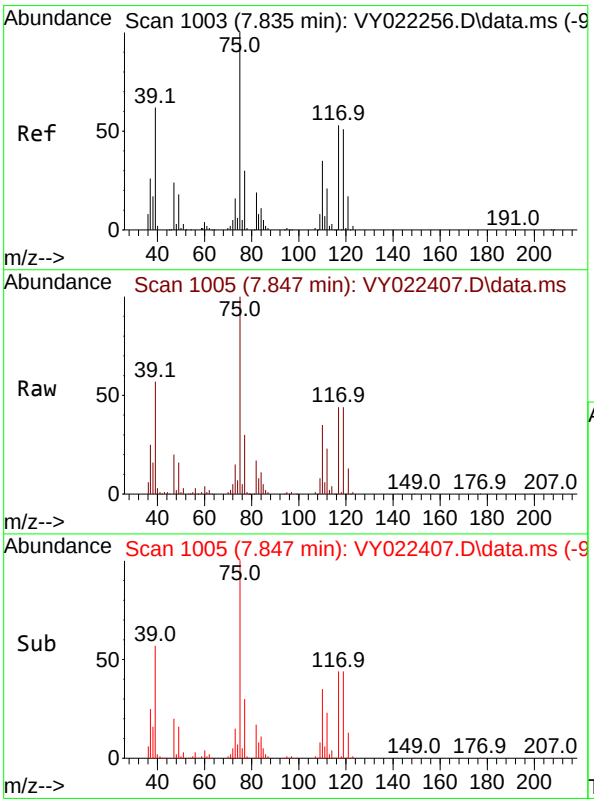
#35
Dibromofluoromethane
Concen: 46.982 ug/l
RT: 7.640 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:113 Resp: 103275

Ion	Ratio	Lower	Upper
113	100		
111	102.4	82.6	123.8
192	18.8	15.2	22.8

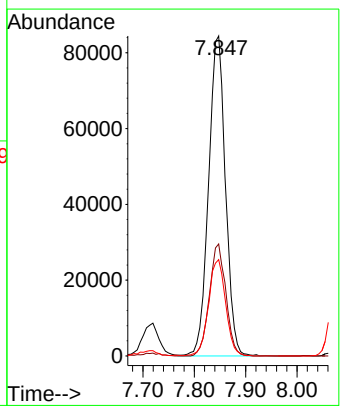


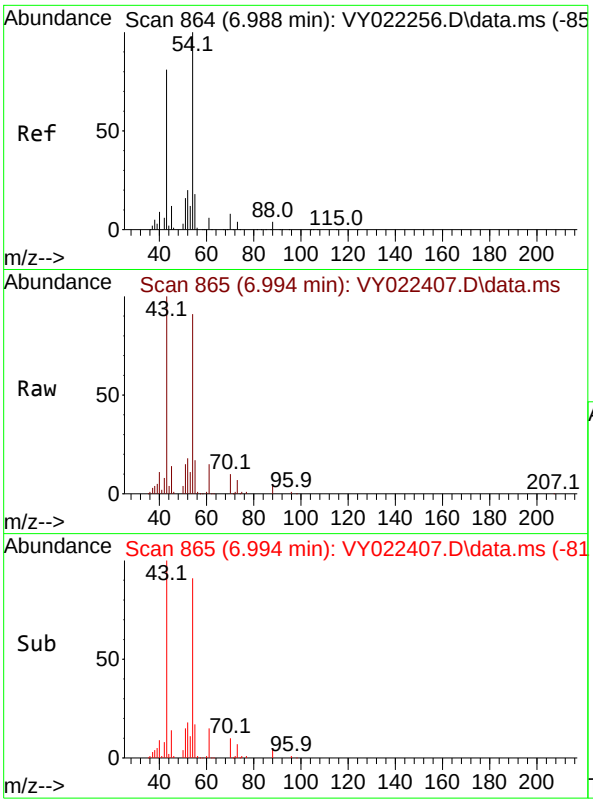


#36
1,1-Dichloropropene
Concen: 53.349 ug/l
RT: 7.847 min Scan# 1005
Delta R.T. 0.012 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 75 Resp: 193158

Ion	Ratio	Lower	Upper
75	100		
110	34.2	16.6	49.8
77	30.6	24.6	37.0



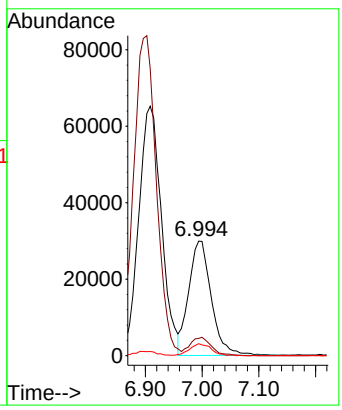


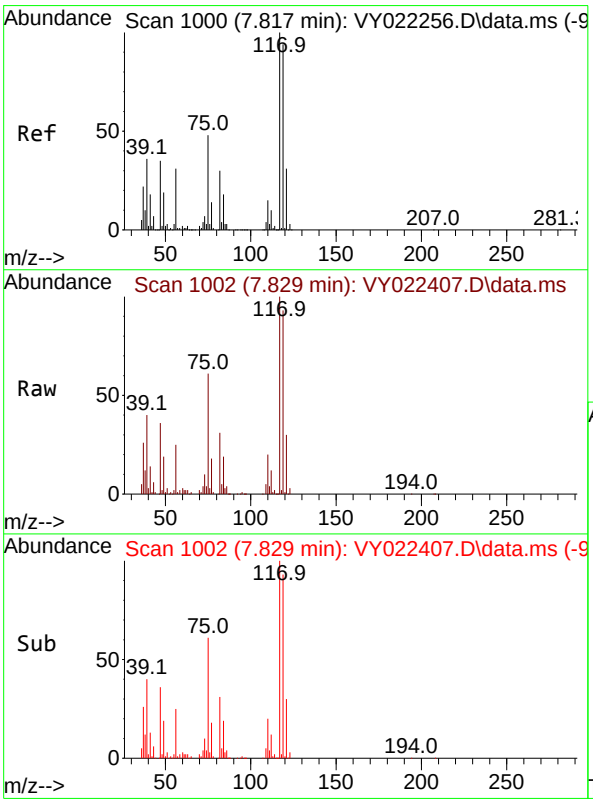
#37
Ethyl Acetate
Concen: 47.744 ug/l
RT: 6.994 min Scan# 8
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 83173

Ion	Ratio	Lower	Upper
43	100		
61	15.3	10.2	15.2#
70	9.9	7.6	11.4

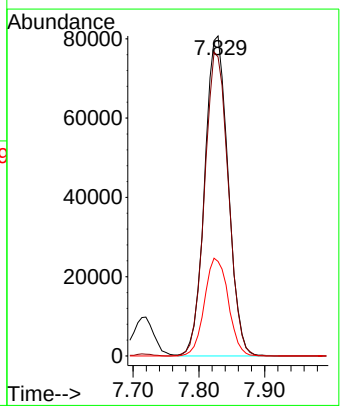


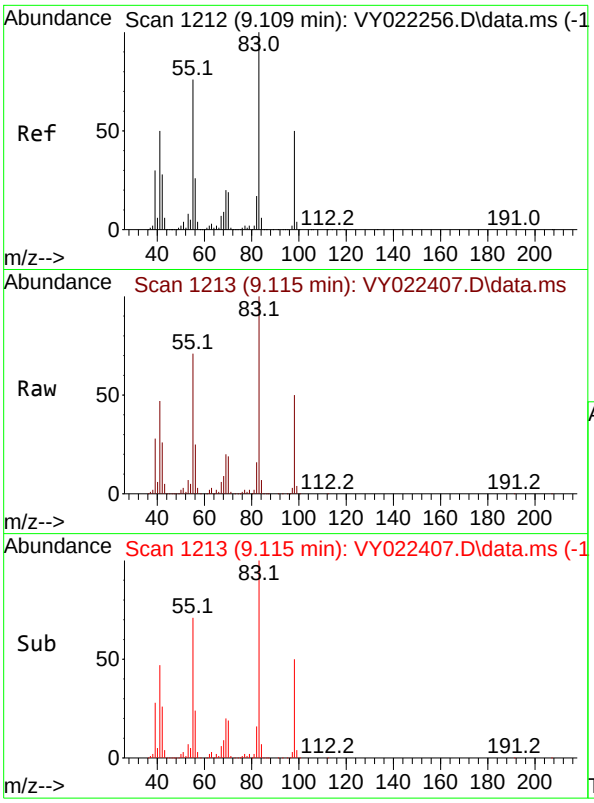


#38
Carbon Tetrachloride
Concen: 53.361 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. 0.012 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion:117 Resp: 199987

Ion	Ratio	Lower	Upper
117	100		
119	93.4	75.3	112.9
121	29.6	24.7	37.1



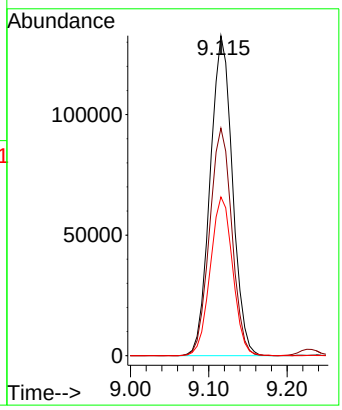


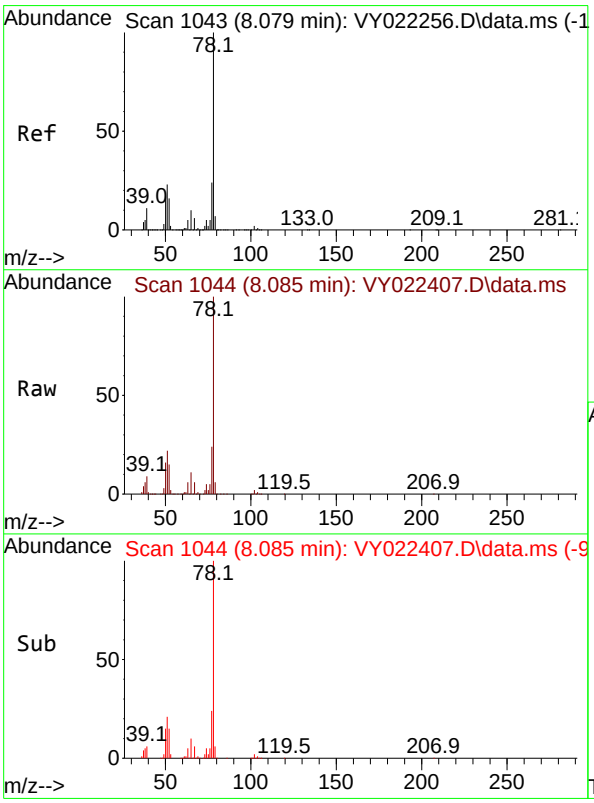
#39
Methylcyclohexane
Concen: 54.032 ug/l
RT: 9.115 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 262827

Ion	Ratio	Lower	Upper
83	100		
55	71.1	60.6	90.8
98	49.6	40.0	60.0

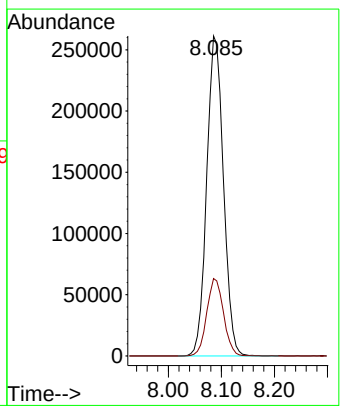


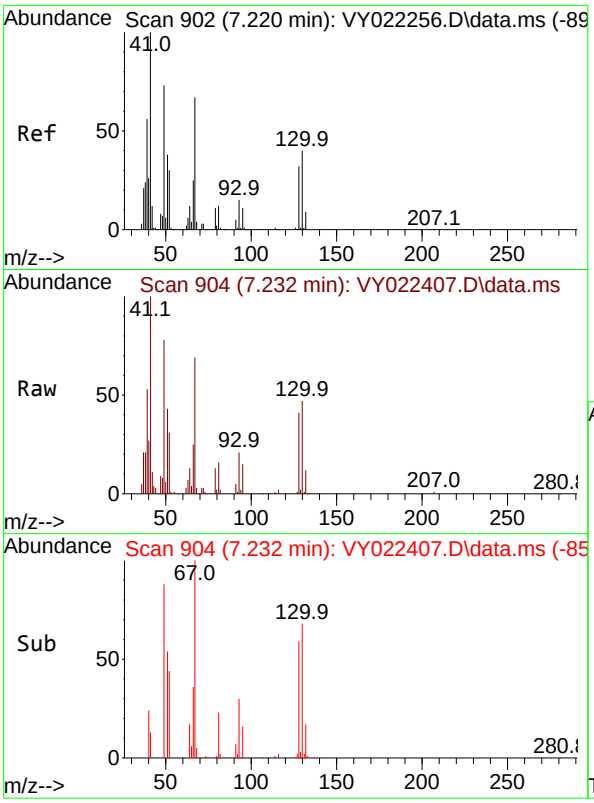


#40
Benzene
Concen: 53.342 ug/l
RT: 8.085 min Scan# 1044
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 78 Resp: 572541

Ion	Ratio	Lower	Upper
78	100		
77	24.2	18.9	28.3



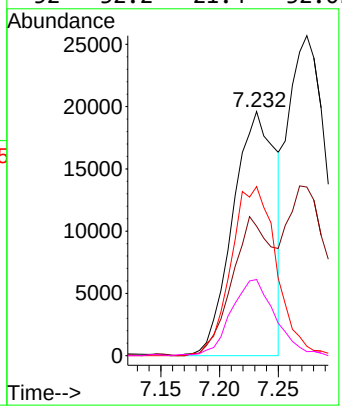


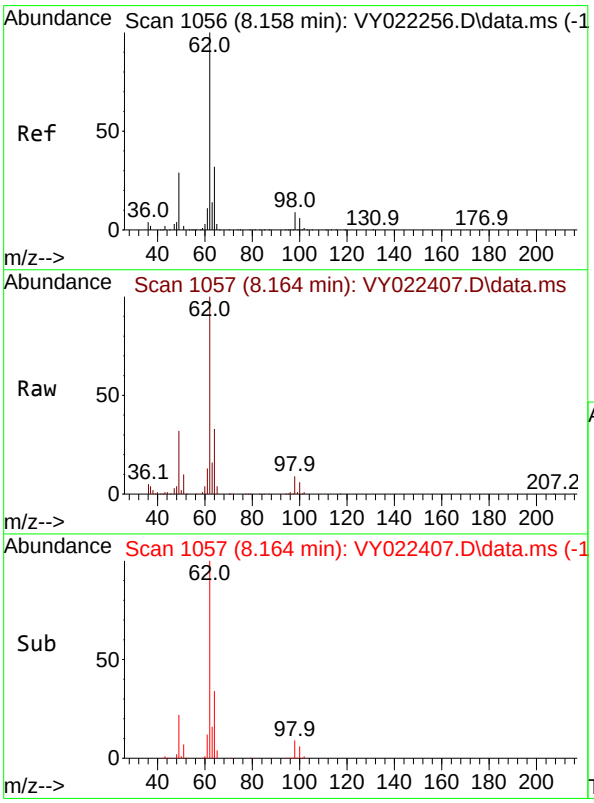
#41
Methacrylonitrile
Concen: 43.021 ug/l
RT: 7.232 min Scan# 9
Delta R.T. 0.012 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 41 Resp: 49714

Ion	Ratio	Lower	Upper
41	100		
39	55.3	39.1	58.7
67	73.5	47.1	70.7#
52	32.2	21.4	32.0#

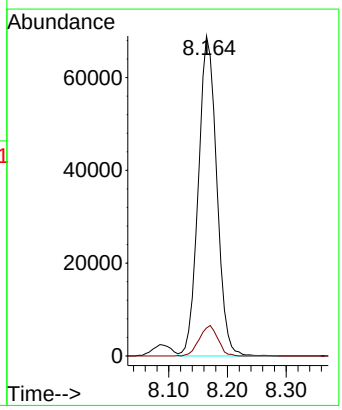


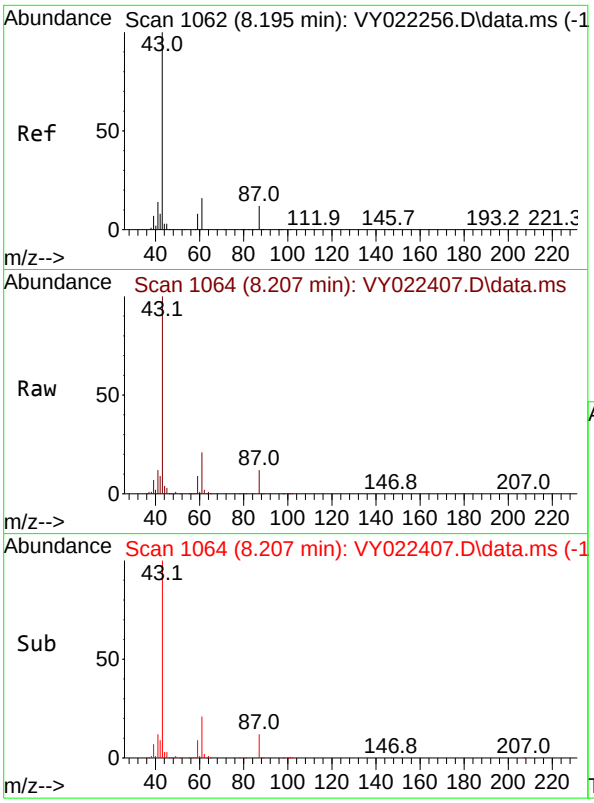


#42
1,2-Dichloroethane
Concen: 51.680 ug/l
RT: 8.164 min Scan# 1057
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 62 Resp: 150005

Ion	Ratio	Lower	Upper
62	100		
98	9.5	0.0	18.4



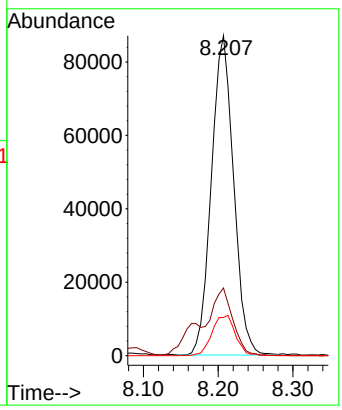


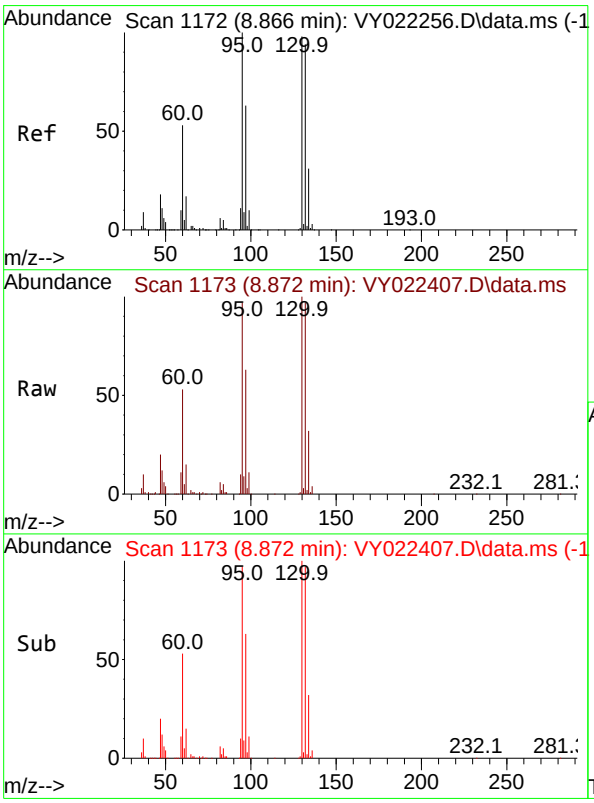
#43
Isopropyl Acetate
Concen: 47.424 ug/l
RT: 8.207 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 180176

Ion	Ratio	Lower	Upper
43	100		
61	21.2	15.1	22.7
87	13.3	9.7	14.5

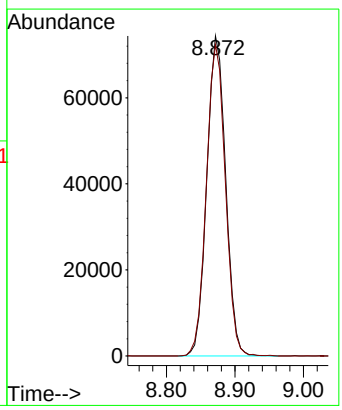


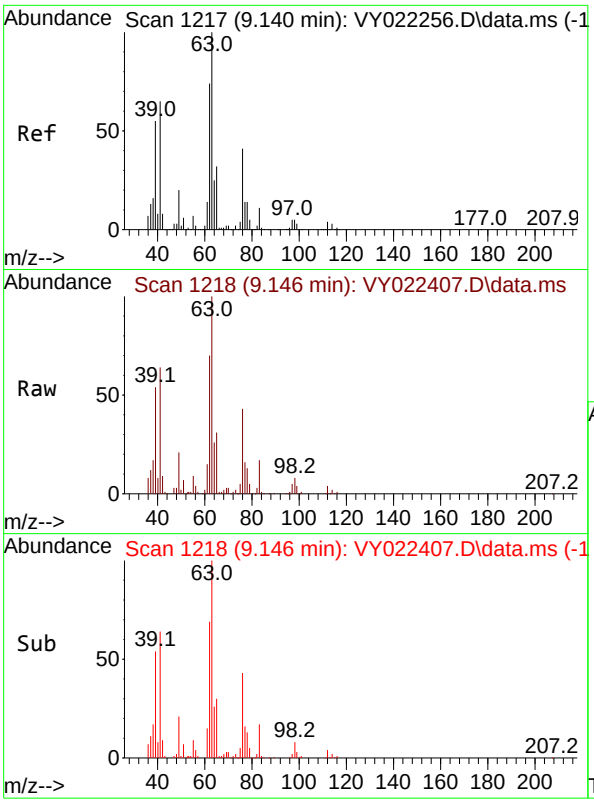


#44
Trichloroethene
Concen: 53.270 ug/l
RT: 8.872 min Scan# 1173
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion:130 Resp: 142169

Ion	Ratio	Lower	Upper
130	100		
95	97.3	0.0	204.8



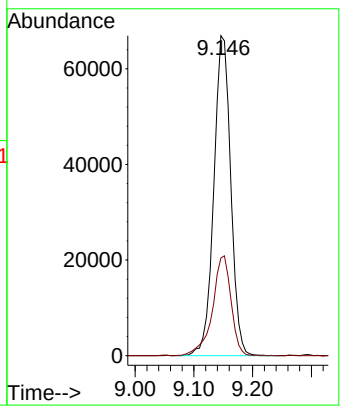


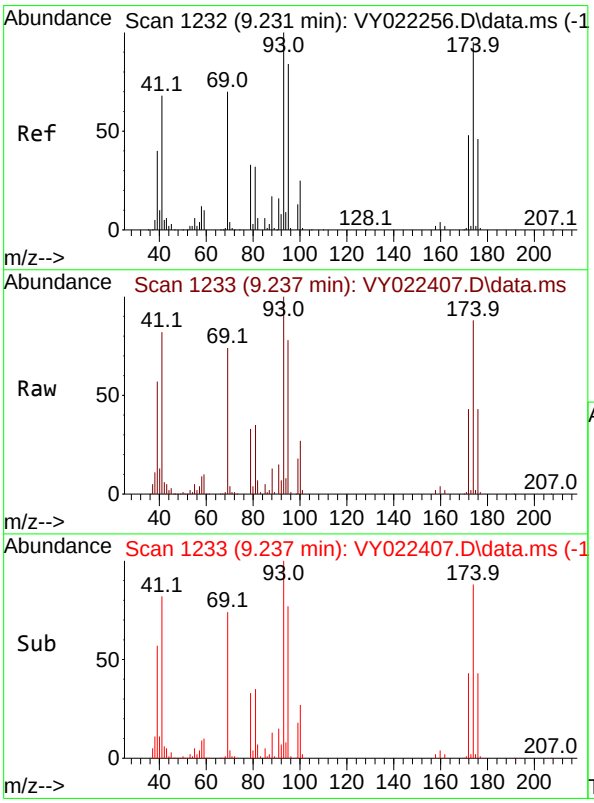
#45
1,2-Dichloropropane
Concen: 51.695 ug/l
RT: 9.146 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 63 Resp: 133774

Ion	Ratio	Lower	Upper
63	100		
65	30.5	25.7	38.5

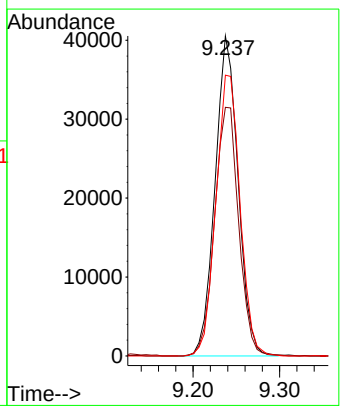


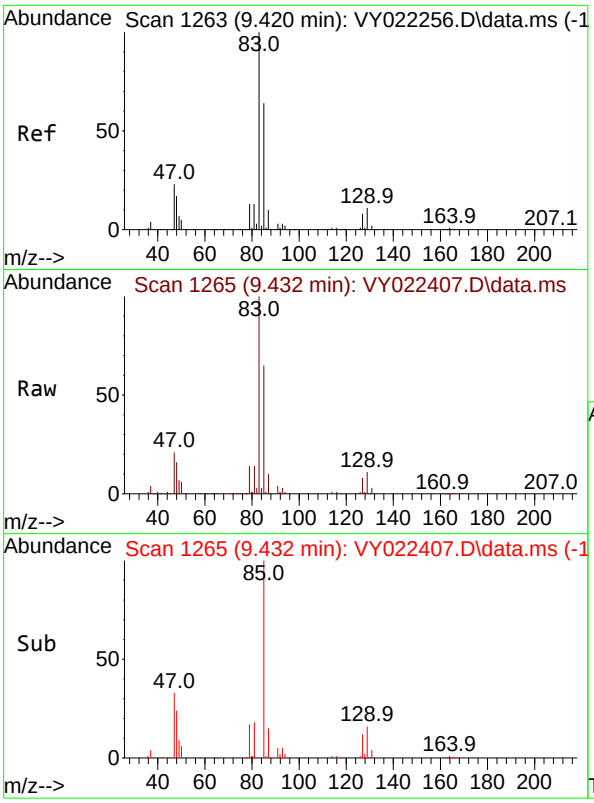


#46
Dibromomethane
Concen: 53.582 ug/l
RT: 9.237 min Scan# 1233
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 93 Resp: 74785

Ion	Ratio	Lower	Upper
93	100		
95	81.4	65.2	97.8
174	92.1	74.3	111.5



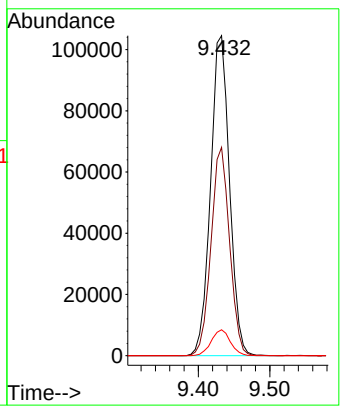


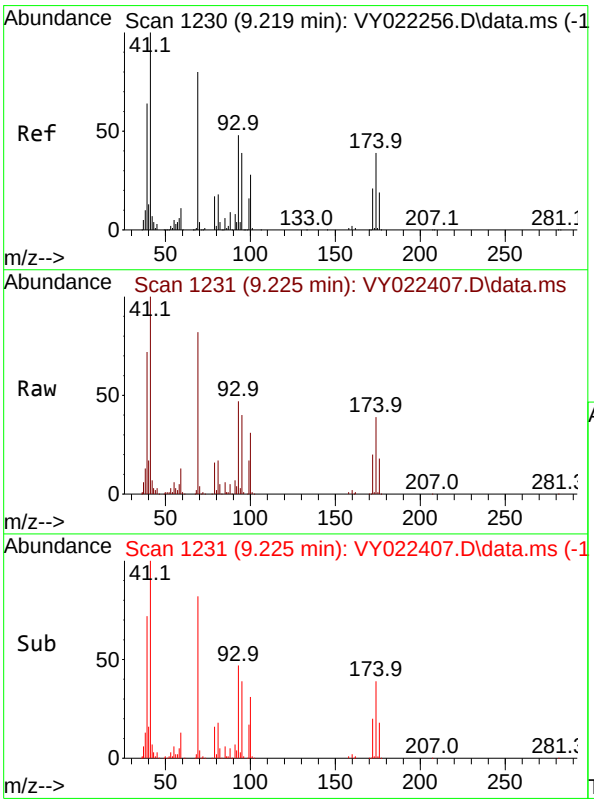
#47
Bromodichloromethane
Concen: 53.066 ug/l
RT: 9.432 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 192142

Ion	Ratio	Lower	Upper
83	100		
85	65.1	51.1	76.7
127	8.1	6.6	10.0

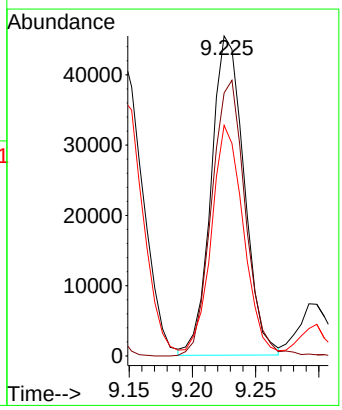


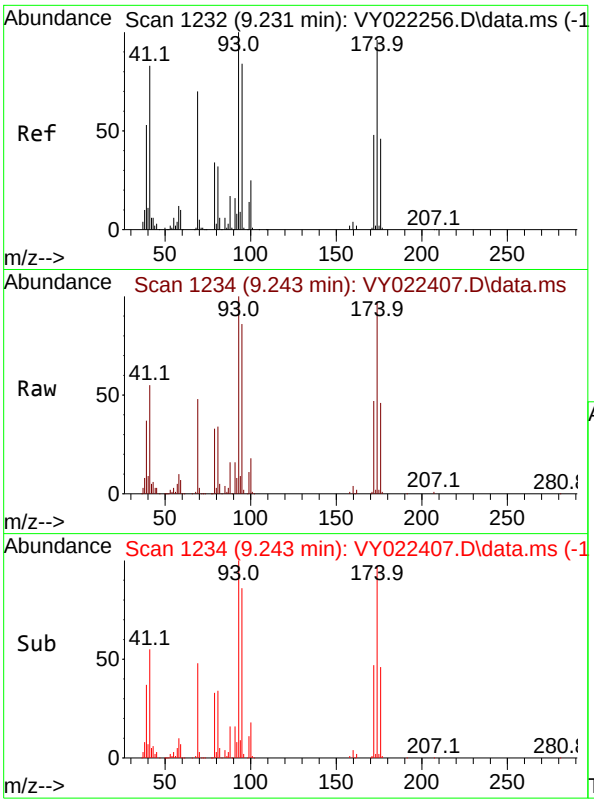


#48
Methyl methacrylate
Concen: 46.300 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 41 Resp: 82263

Ion	Ratio	Lower	Upper
41	100		
69	88.5	63.5	95.3
39	67.5	50.8	76.2



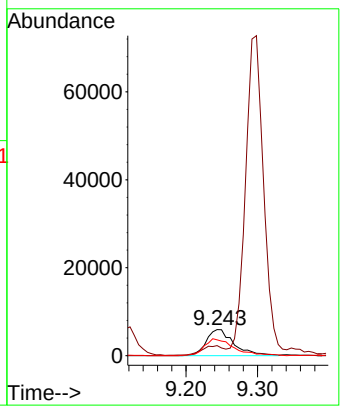


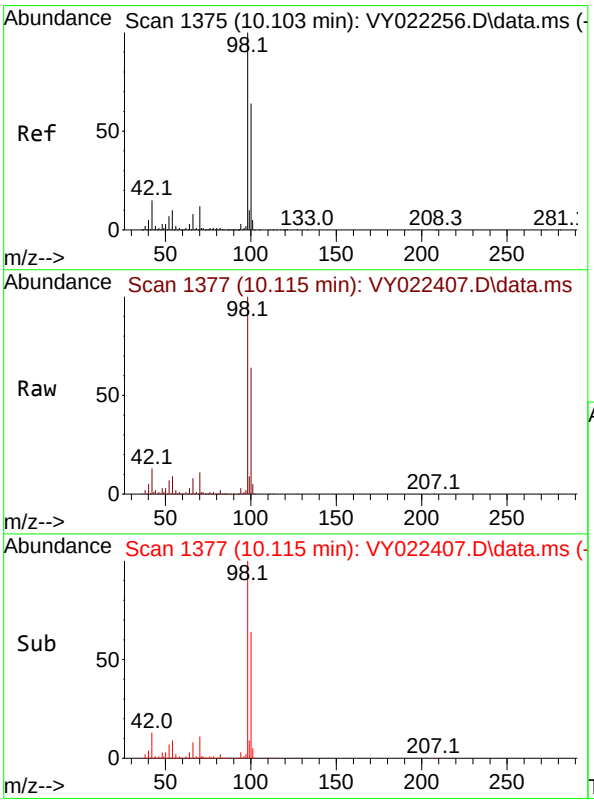
#49
1,4-Dioxane
Concen: 1012.465 ug/l
RT: 9.243 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 88 Resp: 15964

Ion	Ratio	Lower	Upper
88	100		
43	28.9	28.5	42.7
58	69.4	61.4	92.2

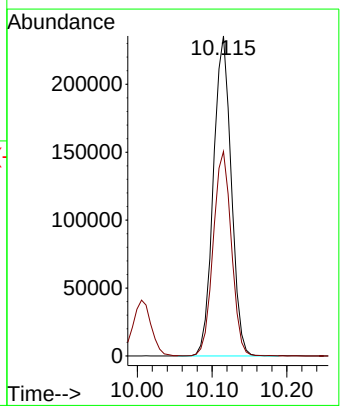


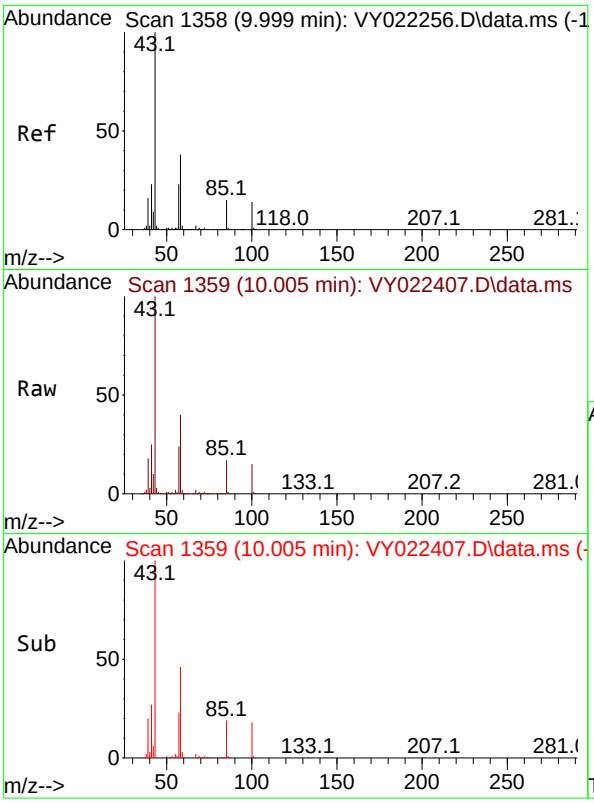


#50
Toluene-d8
Concen: 43.369 ug/l
RT: 10.115 min Scan# 1377
Delta R.T. 0.012 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 98 Resp: 390436

Ion	Ratio	Lower	Upper
98	100		
100	64.8	51.8	77.8



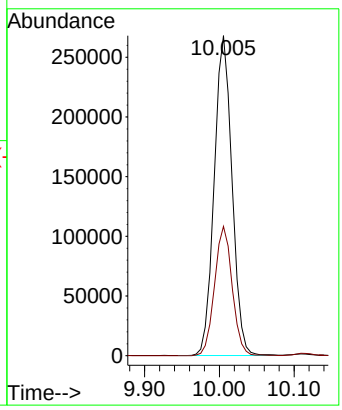


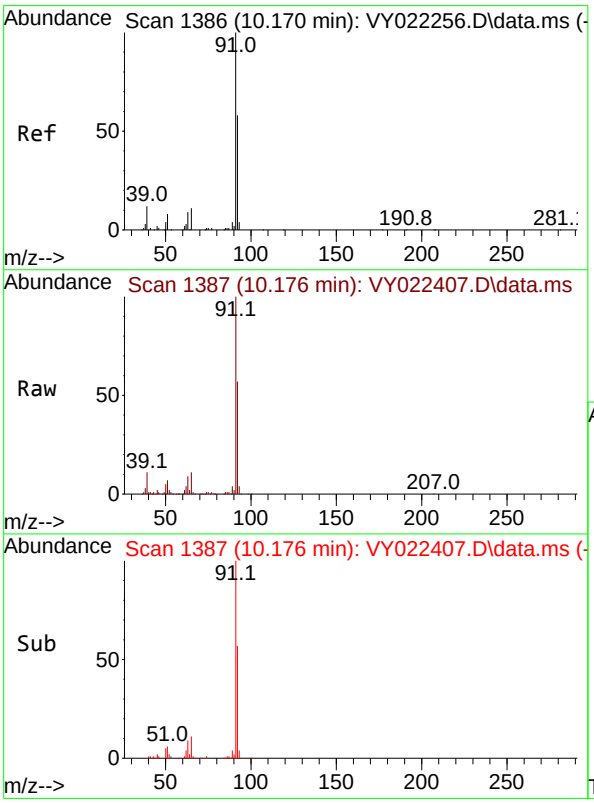
#51
4-Methyl-2-Pentanone
Concen: 238.329 ug/l
RT: 10.005 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 444290

Ion	Ratio	Lower	Upper
43	100		
58	40.1	29.4	44.2

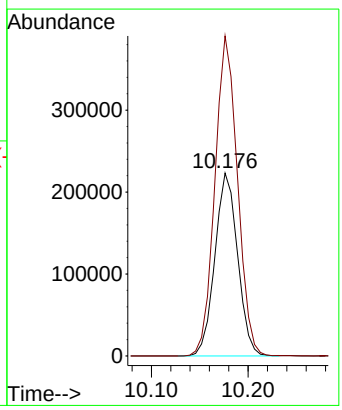


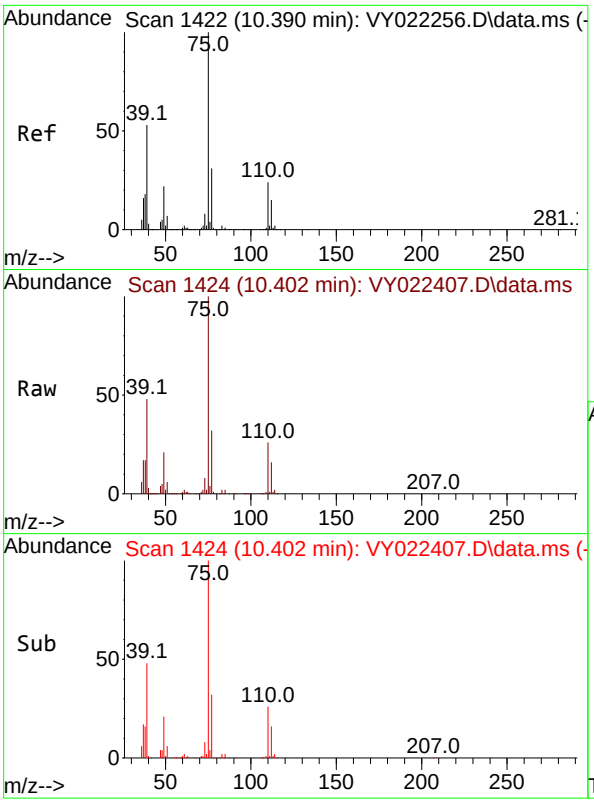


#52
Toluene
Concen: 53.527 ug/l
RT: 10.176 min Scan# 1387
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 92 Resp: 363814

Ion	Ratio	Lower	Upper
92	100		
91	174.4	139.1	208.7



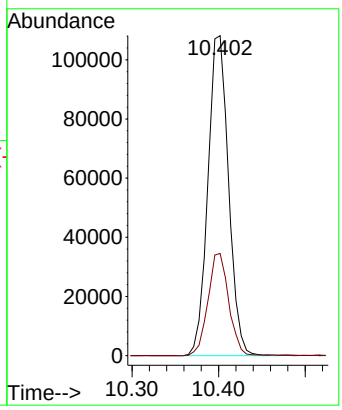


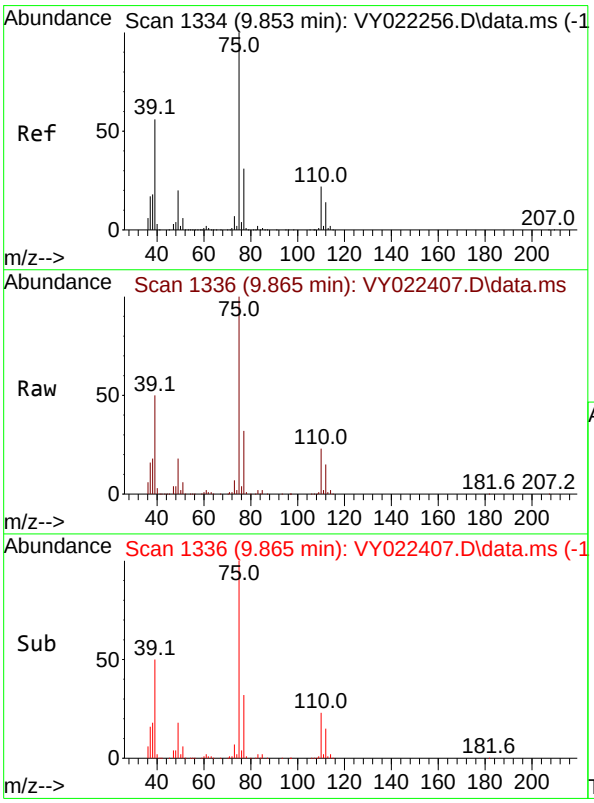
#53
t-1,3-Dichloropropene
Concen: 50.715 ug/l
RT: 10.402 min Scan# 14
Delta R.T. 0.012 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 179206

Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.0	37.6

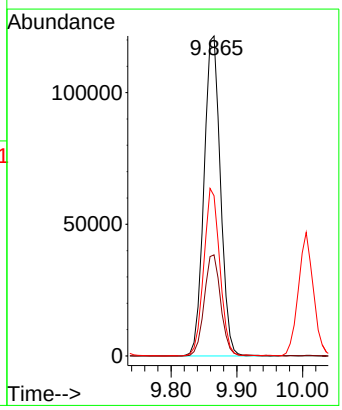


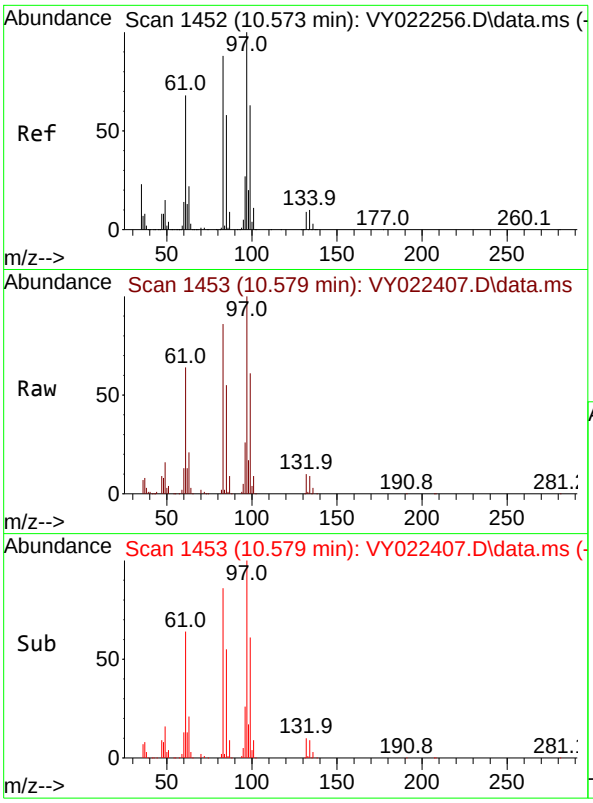


#54
cis-1,3-Dichloropropene
Concen: 52.261 ug/l
RT: 9.865 min Scan# 1336
Delta R.T. 0.012 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 75 Resp: 211578

Ion	Ratio	Lower	Upper
75	100		
77	31.6	25.1	37.7
39	50.0	44.5	66.7



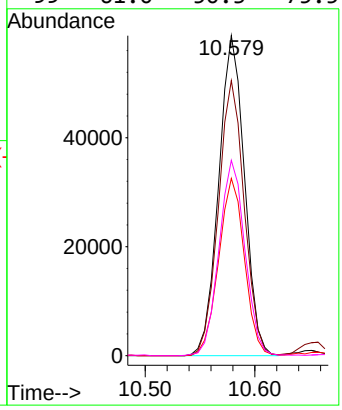


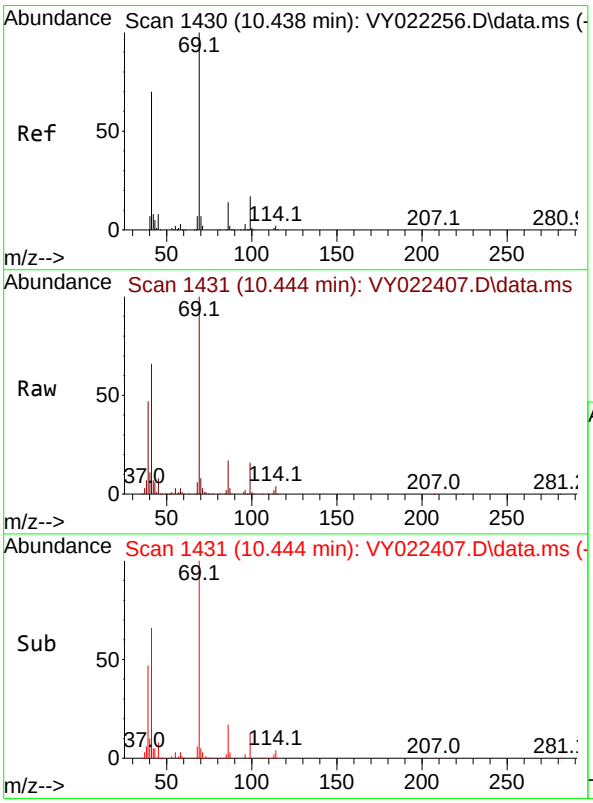
#55
1,1,2-Trichloroethane
Concen: 53.693 ug/l
RT: 10.579 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 97 Resp: 95964

Ion	Ratio	Lower	Upper
97	100		
83	86.0	70.3	105.5
85	55.4	46.2	69.4
99	61.0	50.3	75.5

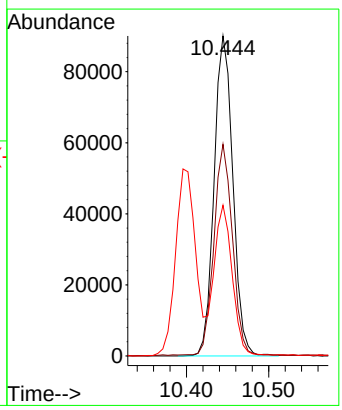


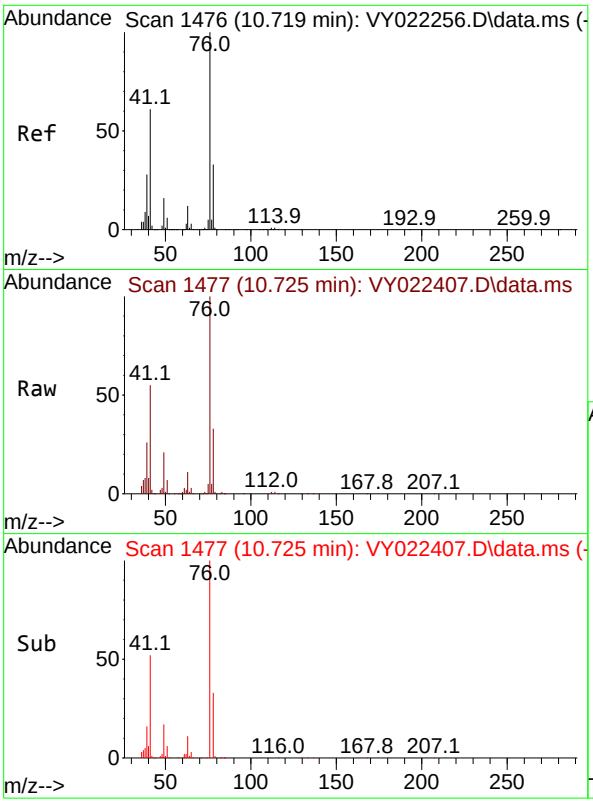


#56
Ethyl methacrylate
Concen: 51.400 ug/l
RT: 10.444 min Scan# 1431
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 69 Resp: 143099

Ion	Ratio	Lower	Upper
69	100		
41	65.4	56.5	84.7
39	46.3	37.1	55.7



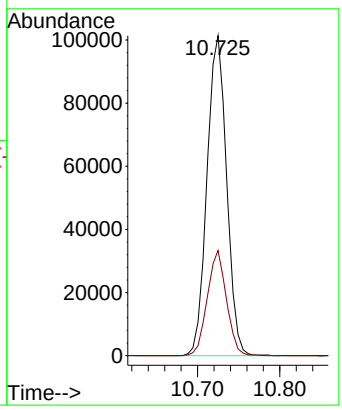


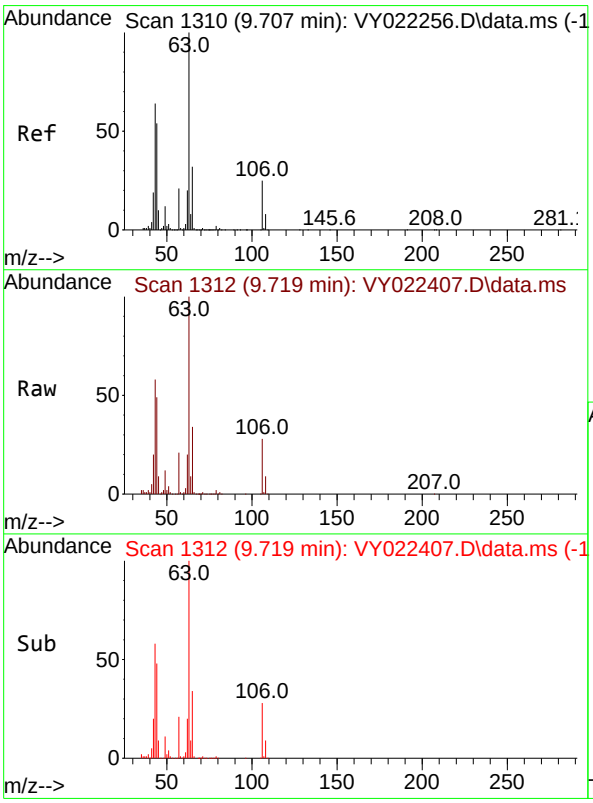
#57
1,3-Dichloropropane
Concen: 53.037 ug/l
RT: 10.725 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 168420

Ion	Ratio	Lower	Upper
76	100		
78	32.0	25.8	38.8

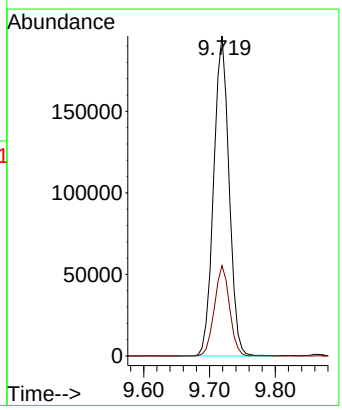


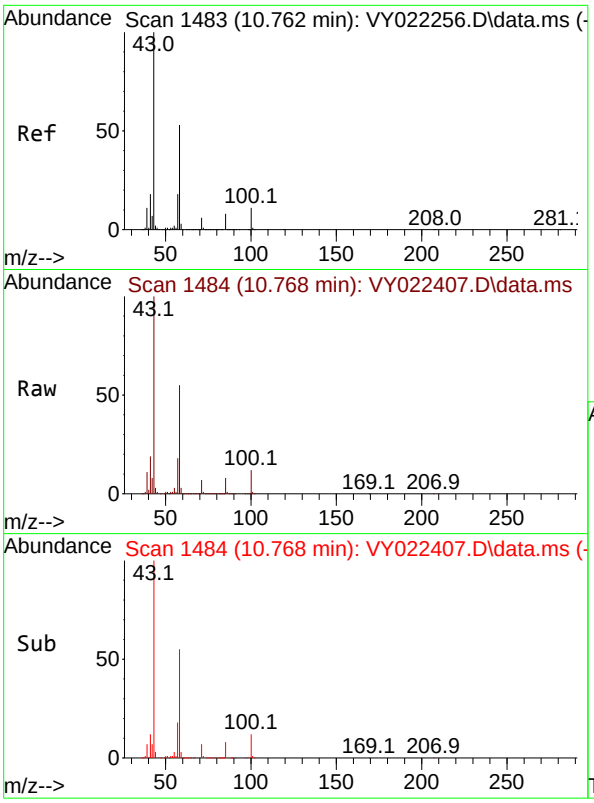


#58
2-Chloroethyl Vinyl ether
Concen: 255.904 ug/l
RT: 9.719 min Scan# 1312
Delta R.T. 0.012 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 63 Resp: 319778

Ion	Ratio	Lower	Upper
63	100		
106	27.7	21.0	31.4



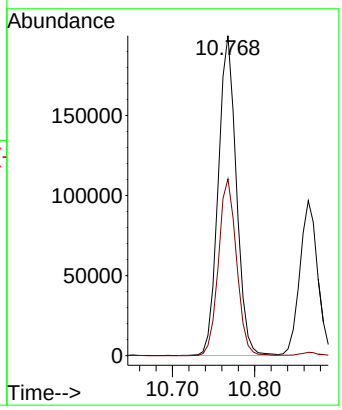


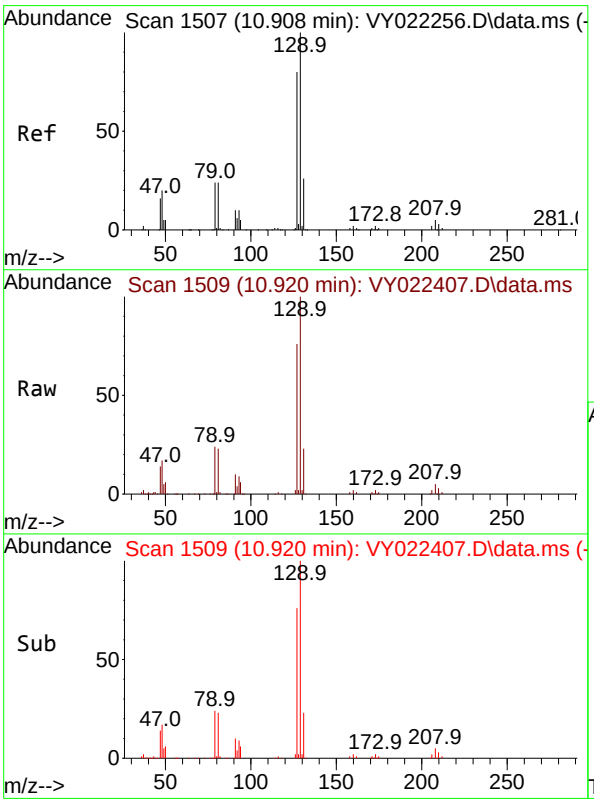
#59
2-Hexanone
Concen: 244.413 ug/l
RT: 10.768 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 305492

Ion	Ratio	Lower	Upper
43	100		
58	55.2	26.1	78.3

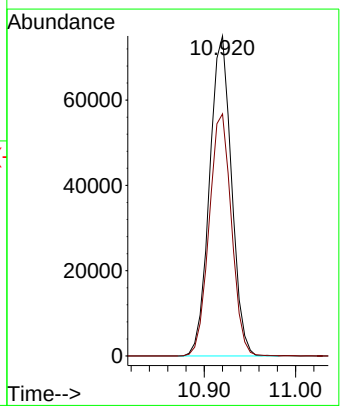


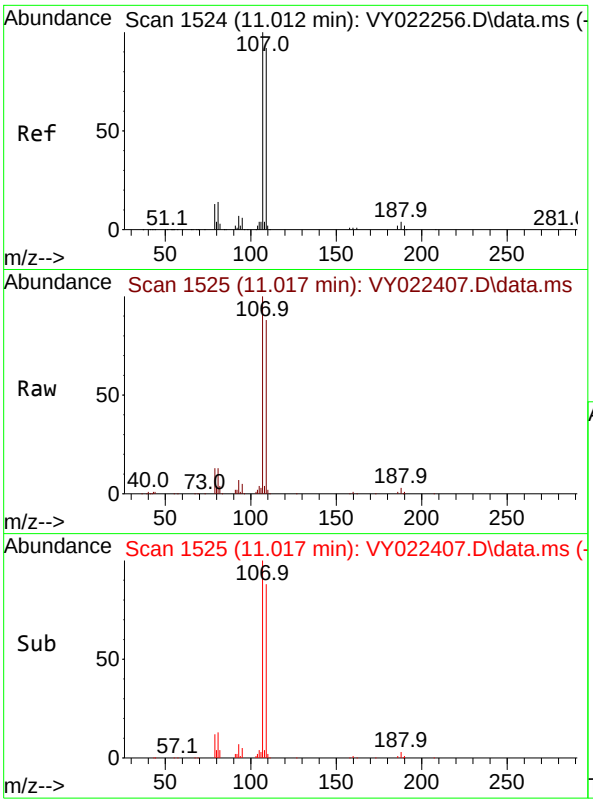


#60
Dibromochloromethane
Concen: 53.868 ug/l
RT: 10.920 min Scan# 1509
Delta R.T. 0.012 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion:129 Resp: 124963

Ion	Ratio	Lower	Upper
129	100		
127	76.9	38.6	115.7



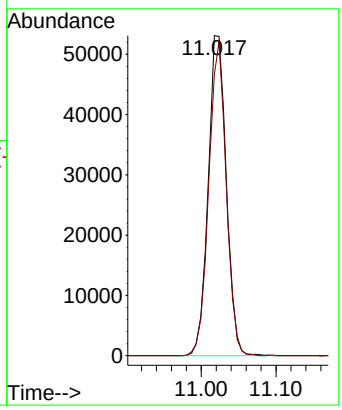


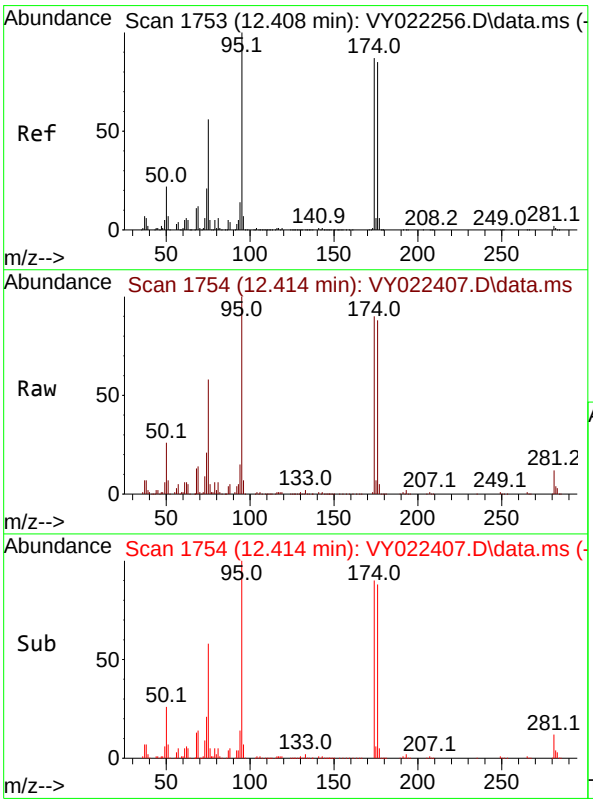
#61
1,2-Dibromoethane
Concen: 53.833 ug/l
RT: 11.017 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:107 Resp: 89675

Ion	Ratio	Lower	Upper
107	100		
109	93.9	74.6	111.8

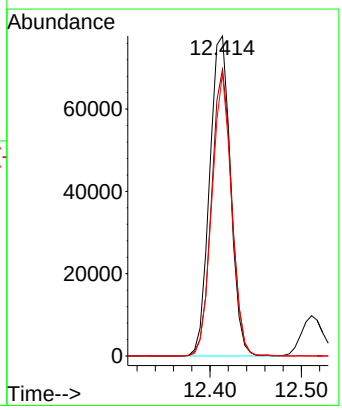


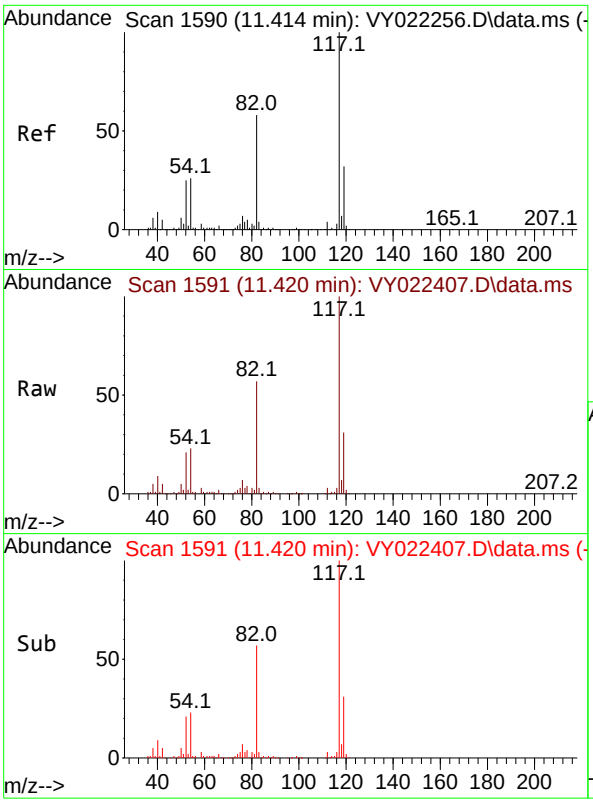


#62
4-Bromofluorobenzene
Concen: 43.119 ug/l
RT: 12.414 min Scan# 1754
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 95 Resp: 123042

Ion	Ratio	Lower	Upper
95	100		
174	86.5	0.0	166.8
176	83.2	0.0	160.8



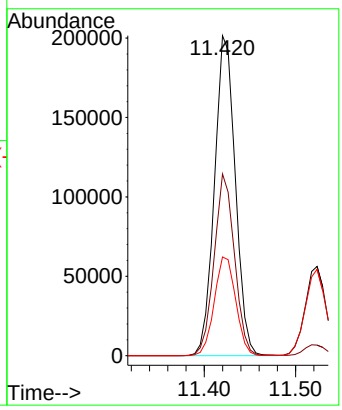


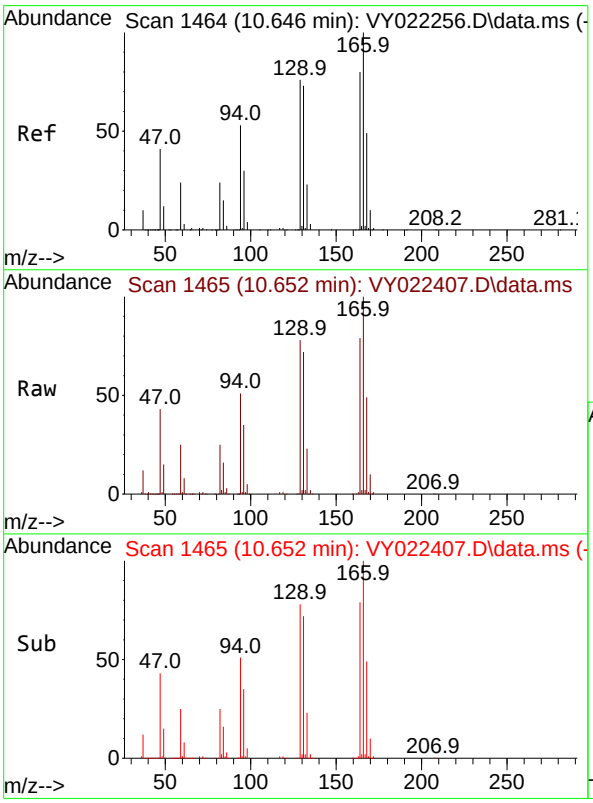
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:117 Resp: 319713

Ion	Ratio	Lower	Upper
117	100		
82	56.8	46.6	70.0
119	30.8	25.8	38.6

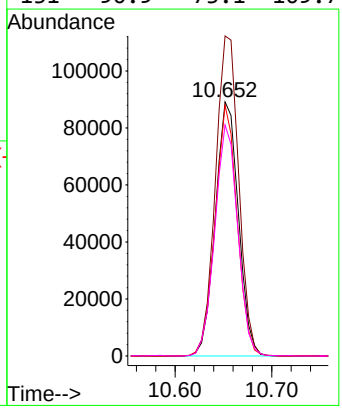


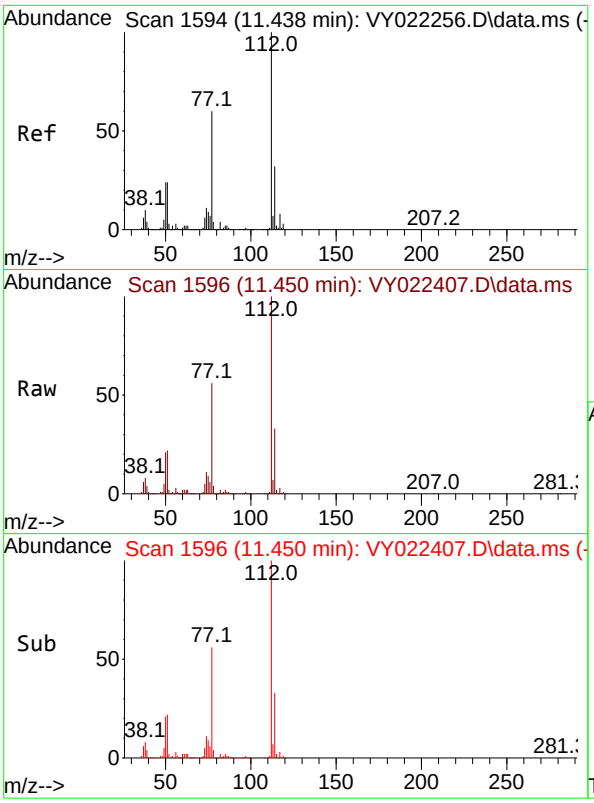


#64
Tetrachloroethene
Concen: 50.091 ug/l
RT: 10.652 min Scan# 1465
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion:164 Resp: 148025

Ion	Ratio	Lower	Upper
164	100		
166	125.9	100.4	150.6
129	98.6	76.4	114.6
131	90.9	73.1	109.7



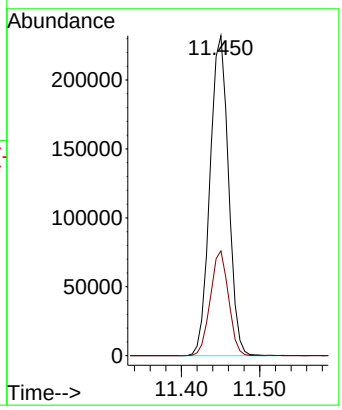


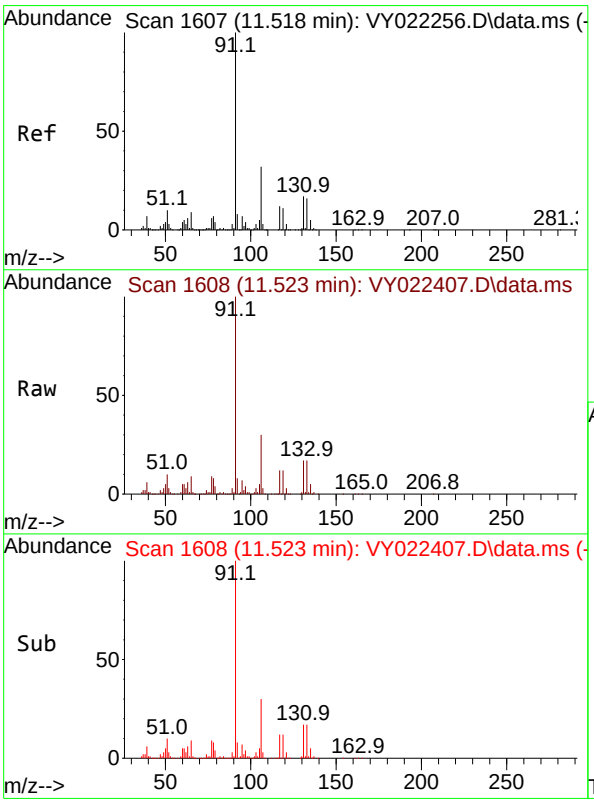
#65
Chlorobenzene
Concen: 52.815 ug/l
RT: 11.450 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:112 Resp: 380959

Ion	Ratio	Lower	Upper
112	100		
114	32.7	25.8	38.6

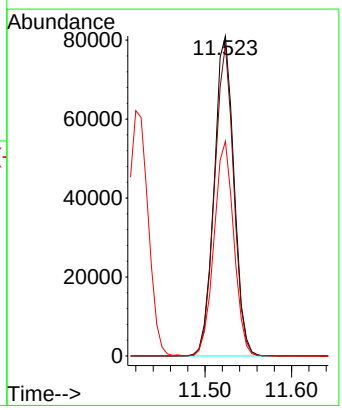


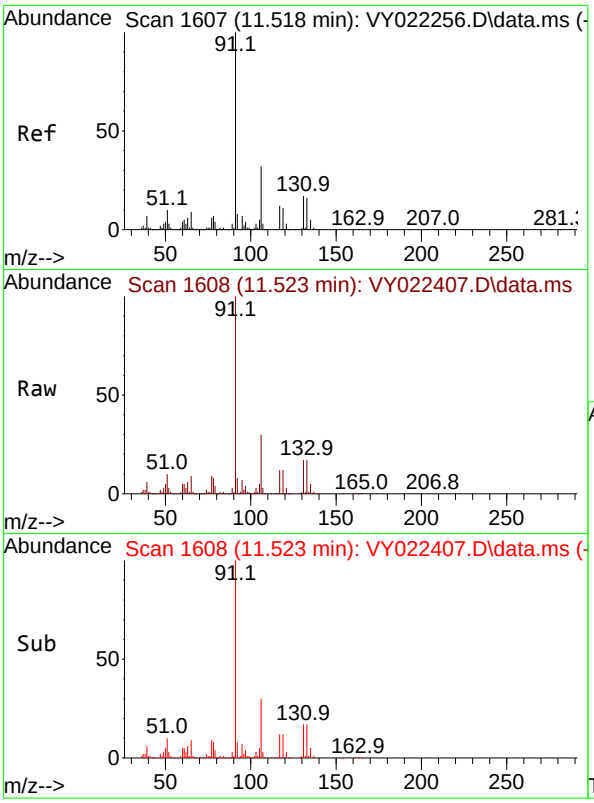


#66
1,1,1,2-Tetrachloroethane
Concen: 52.064 ug/l
RT: 11.523 min Scan# 1608
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion:131 Resp: 129105

Ion	Ratio	Lower	Upper
131	100		
133	94.1	47.3	141.9
119	66.9	33.1	99.2



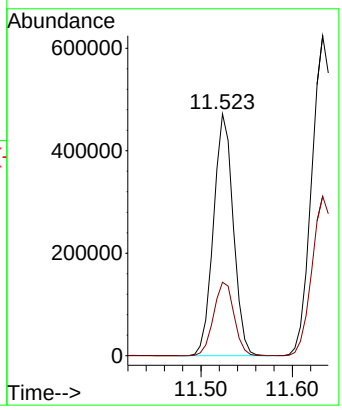


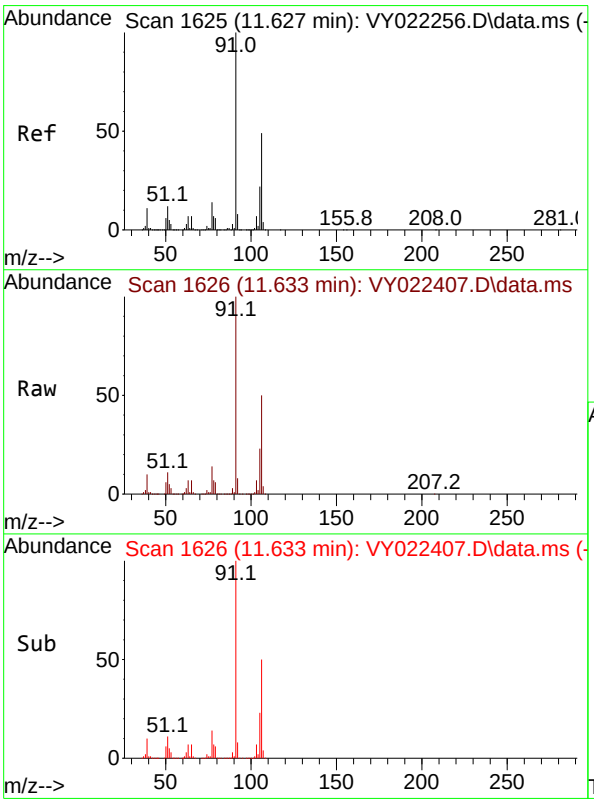
#67
Ethyl Benzene
Concen: 52.532 ug/l
RT: 11.523 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 709631

Ion	Ratio	Lower	Upper
91	100		
106	30.4	25.4	38.0

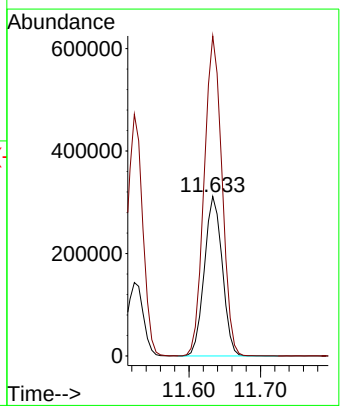


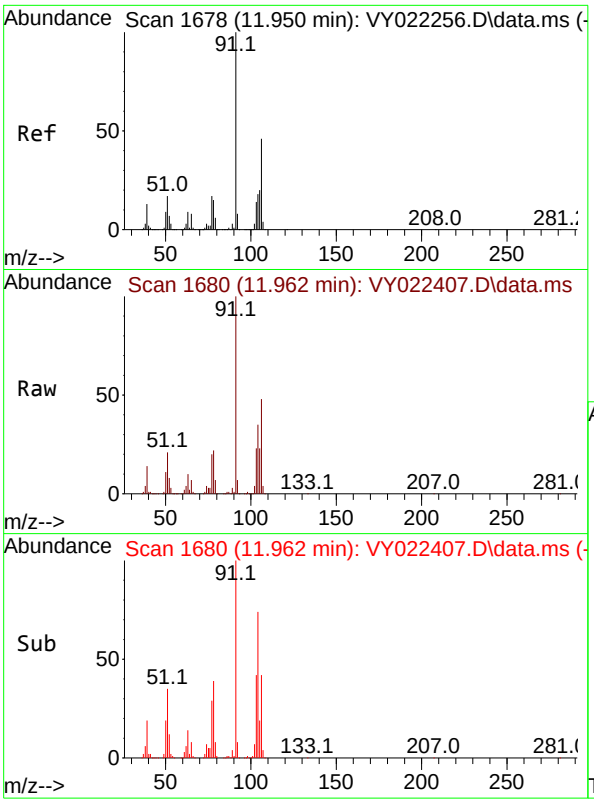


#68
m/p-Xylenes
Concen: 106.314 ug/l
RT: 11.633 min Scan# 1626
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion:106 Resp: 541165

Ion	Ratio	Lower	Upper
106	100		
91	199.9	163.0	244.4



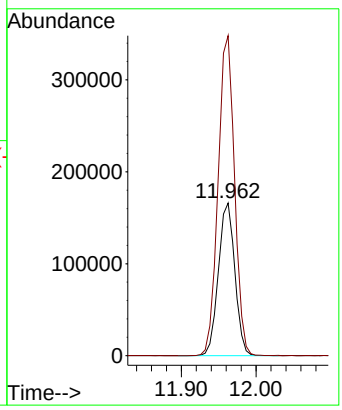


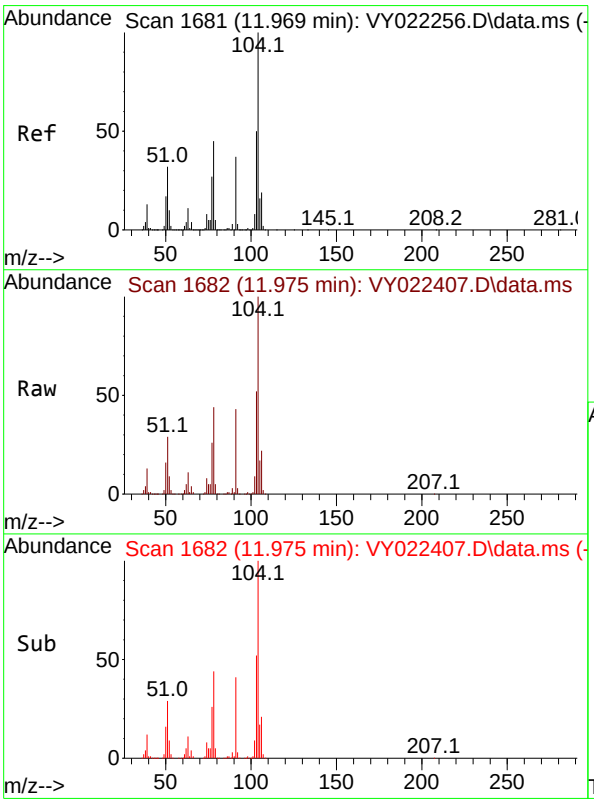
#69
o-Xylene
Concen: 52.908 ug/l
RT: 11.962 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:106 Resp: 254806

Ion	Ratio	Lower	Upper
106	100		
91	209.5	108.3	324.8

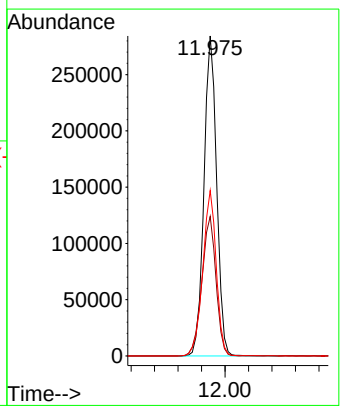


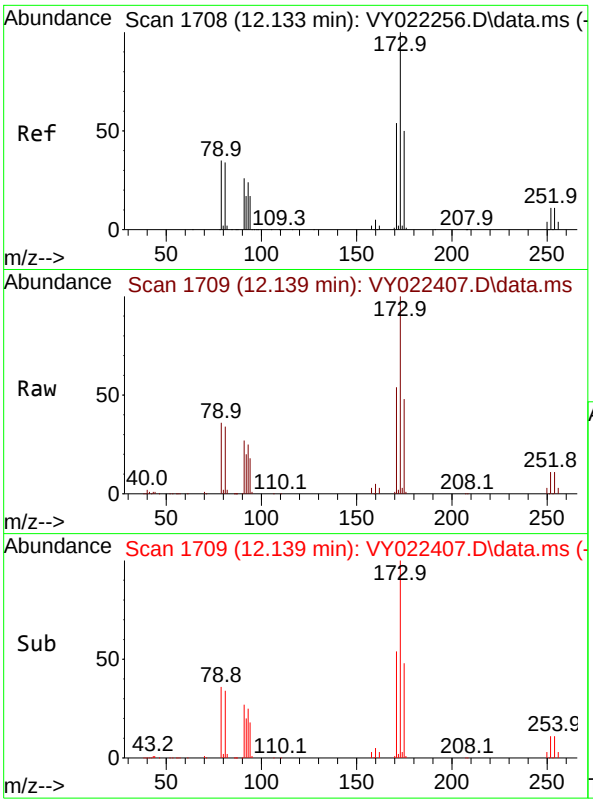


#70
Styrene
Concen: 52.512 ug/l
RT: 11.975 min Scan# 1682
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion:104 Resp: 426601

Ion	Ratio	Lower	Upper
104	100		
78	48.5	40.9	61.3
103	54.9	43.7	65.5



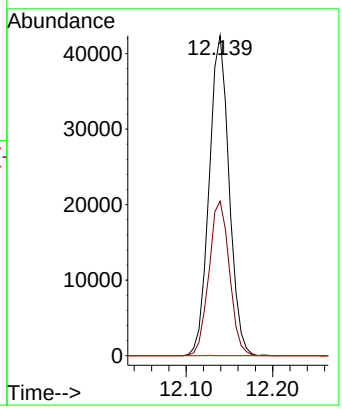


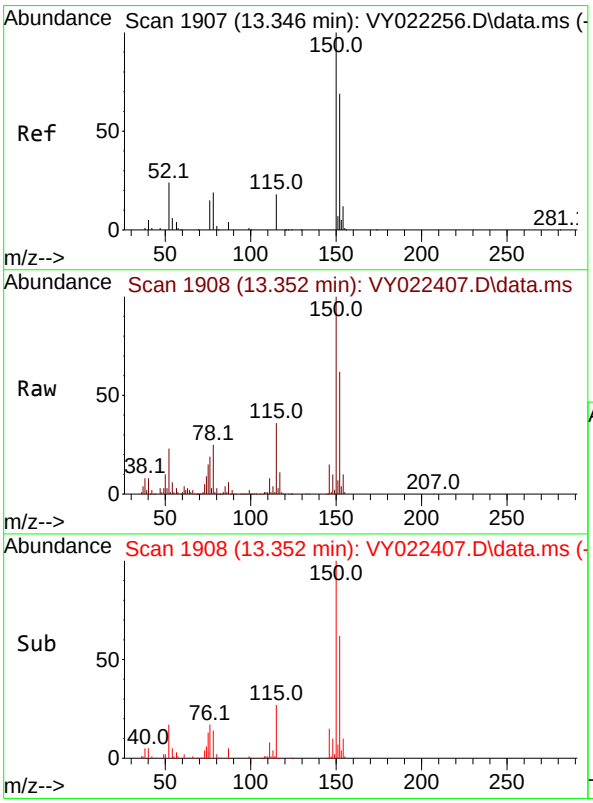
#71
Bromoform
Concen: 50.619 ug/l
RT: 12.139 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:173 Resp: 67751

Ion	Ratio	Lower	Upper
173	100		
175	49.6	24.7	74.1
254	0.0	0.0	0.0#

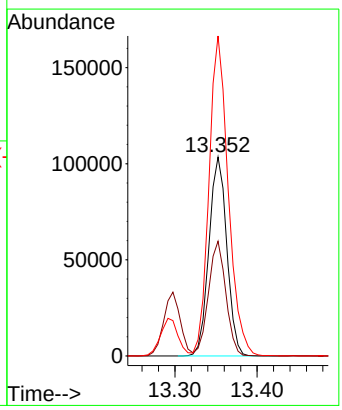


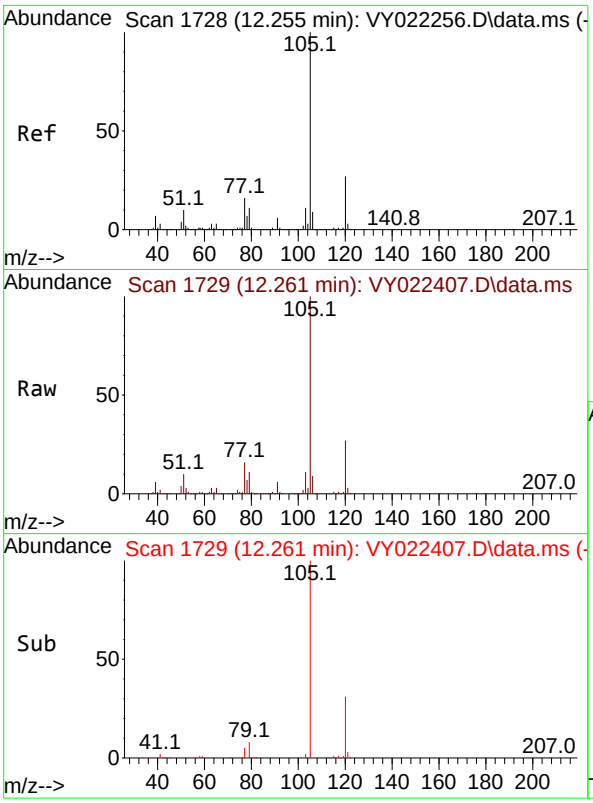


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.352 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion:152 Resp: 156128

Ion	Ratio	Lower	Upper
152	100		
115	56.2	29.4	88.2
150	173.2	0.0	353.8



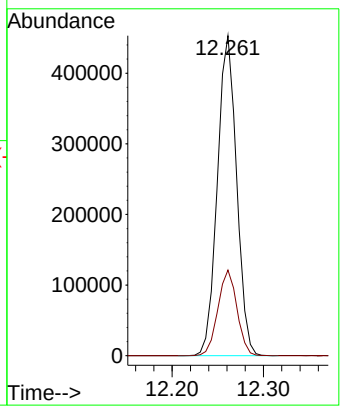


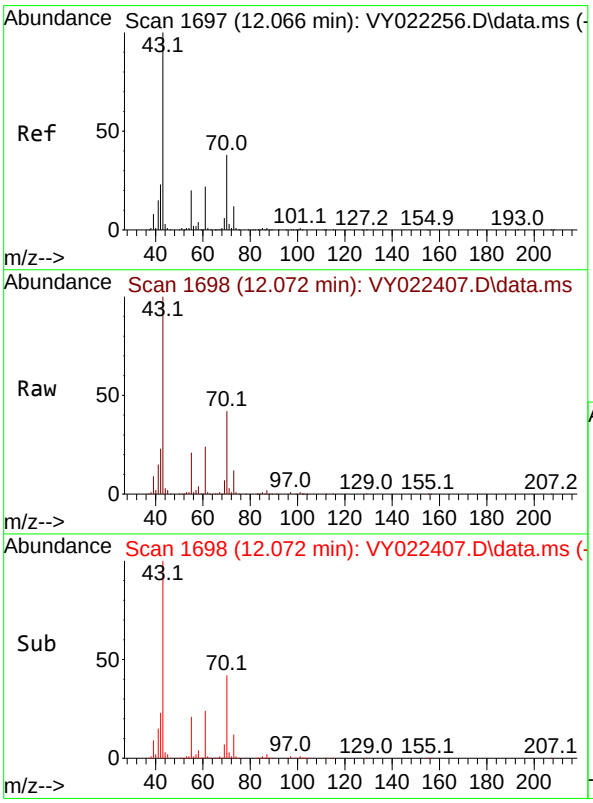
#73
Isopropylbenzene
Concen: 51.371 ug/l
RT: 12.261 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 664453

Ion	Ratio	Lower	Upper
105	100		
120	26.4	13.2	39.6

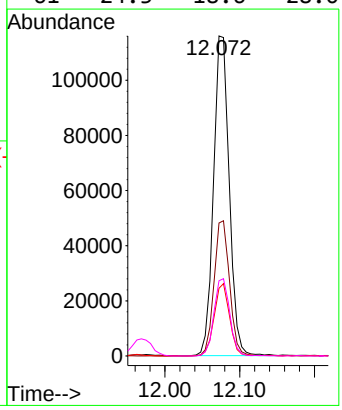


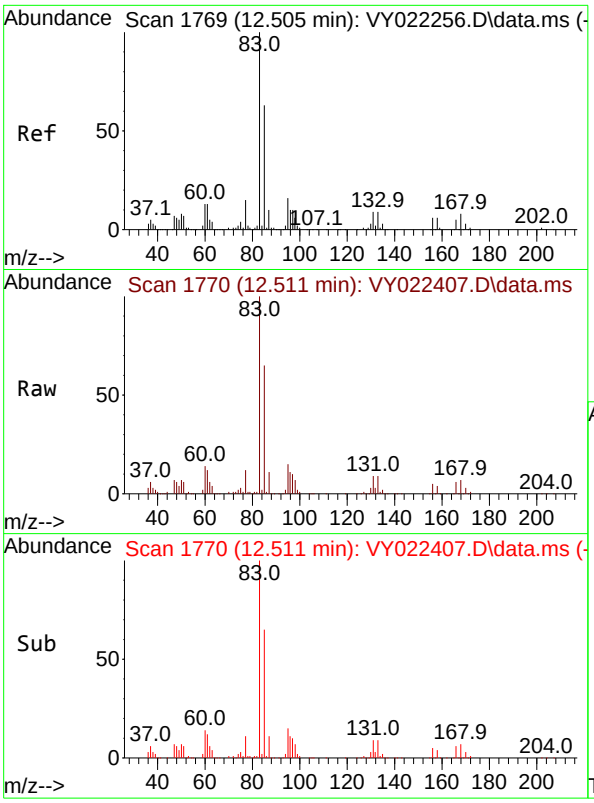


#74
N-amyl acetate
Concen: 45.779 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 43 Resp: 169349

Ion	Ratio	Lower	Upper
43	100		
70	41.8	31.4	47.0
55	22.3	17.0	25.6
61	24.3	18.6	28.0



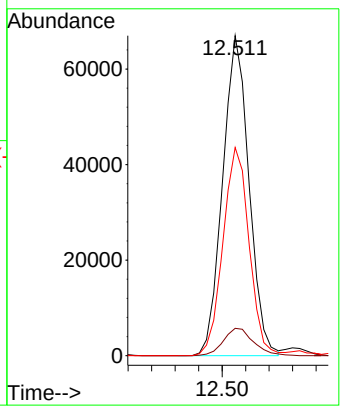


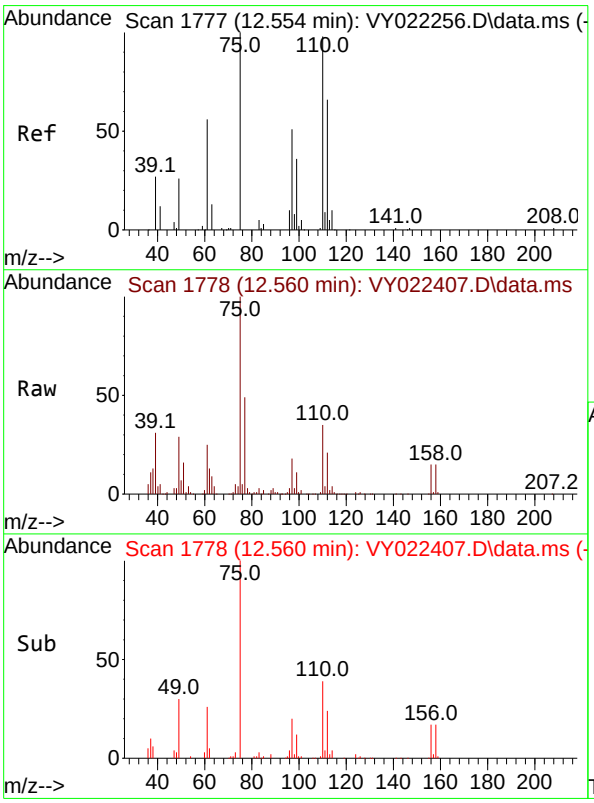
#75
1,1,2,2-Tetrachloroethane
Concen: 52.437 ug/l
RT: 12.511 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 104308

Ion	Ratio	Lower	Upper
83	100		
131	9.8	4.9	14.7
85	64.6	32.0	96.0

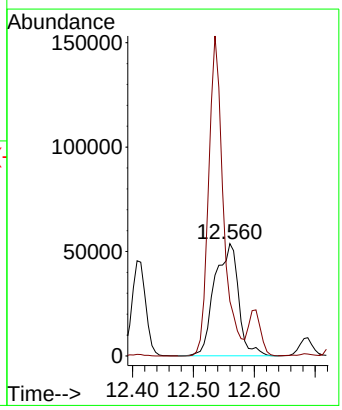


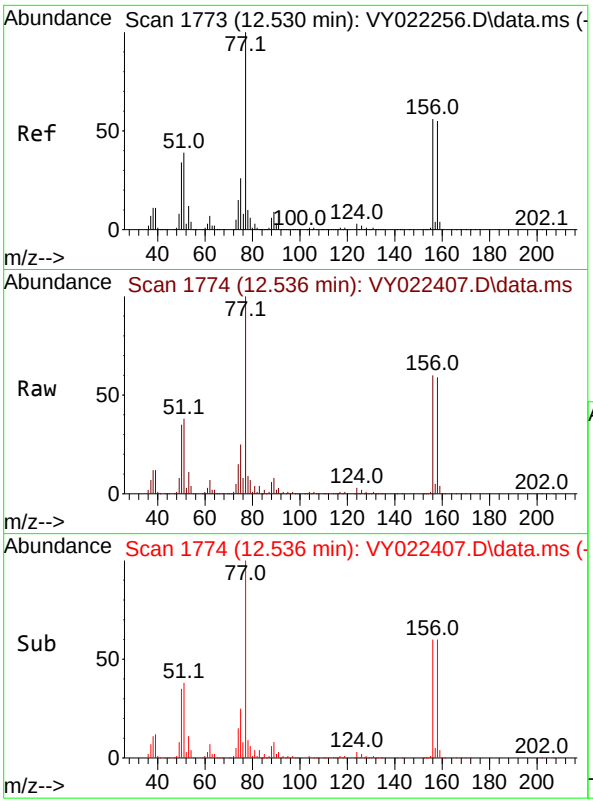


#76
1,2,3-Trichloropropane
Concen: 92.489 ug/l
RT: 12.560 min Scan# 1778
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 75 Resp: 146294

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0



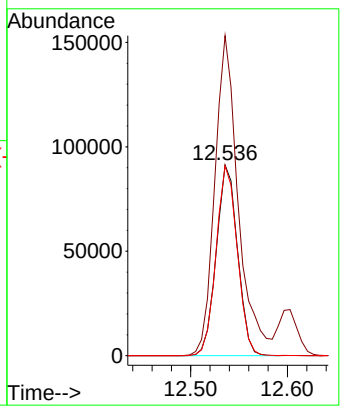


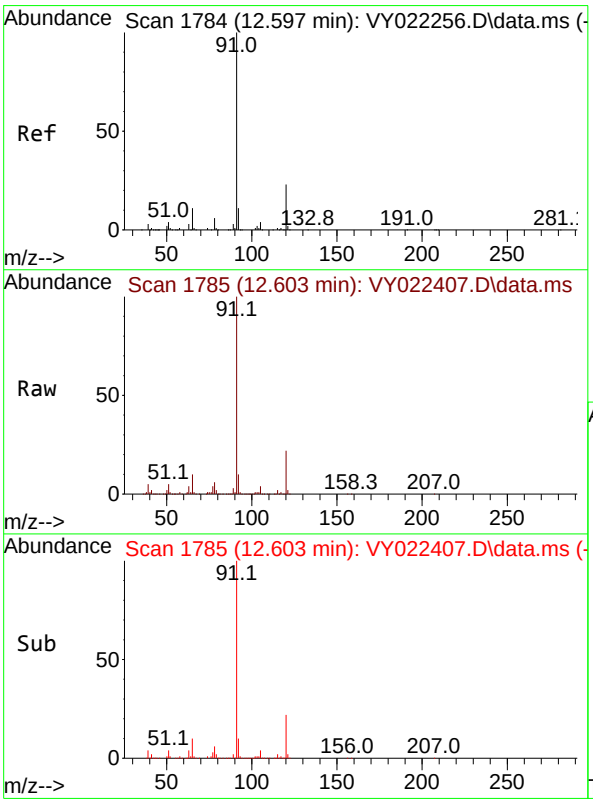
#77
Bromobenzene
Concen: 50.501 ug/l
RT: 12.536 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:156 Resp: 139511

Ion	Ratio	Lower	Upper
156	100		
77	185.6	94.5	283.6
158	99.4	48.4	145.3

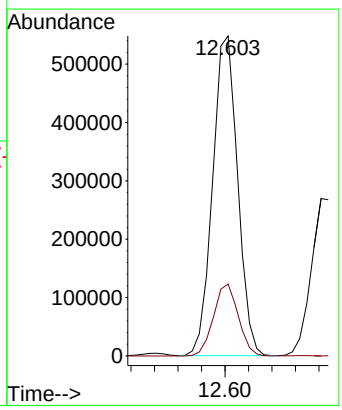


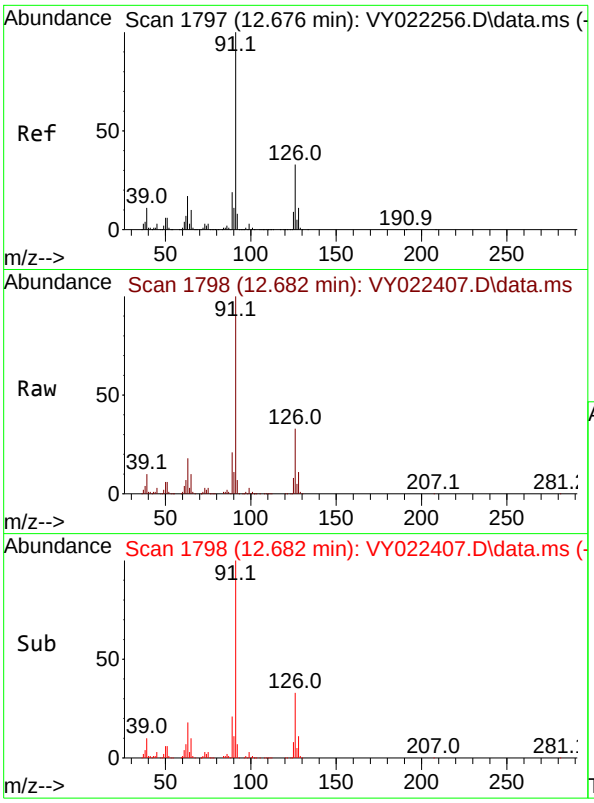


#78
n-propylbenzene
Concen: 51.904 ug/l
RT: 12.603 min Scan# 1785
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 91 Resp: 809774

Ion	Ratio	Lower	Upper
91	100		
120	22.3	11.1	33.3



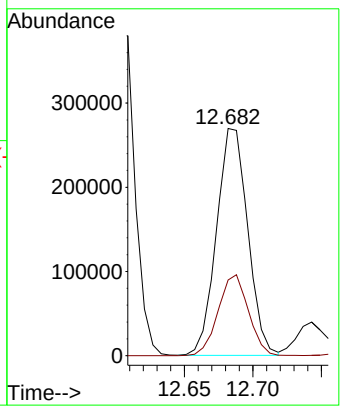


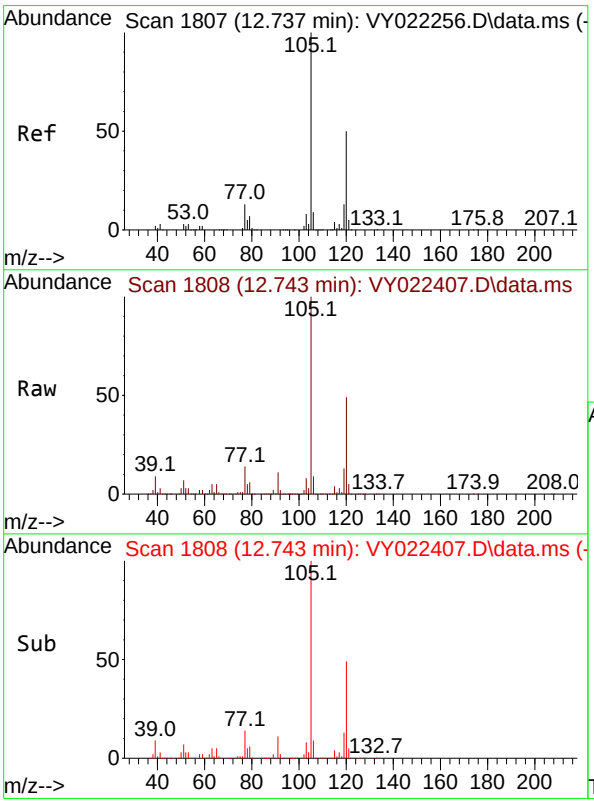
#79
2-Chlorotoluene
Concen: 49.921 ug/l
RT: 12.682 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 427999

Ion	Ratio	Lower	Upper
91	100		
126	34.5	16.8	50.4

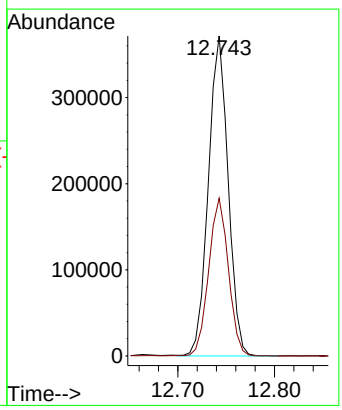


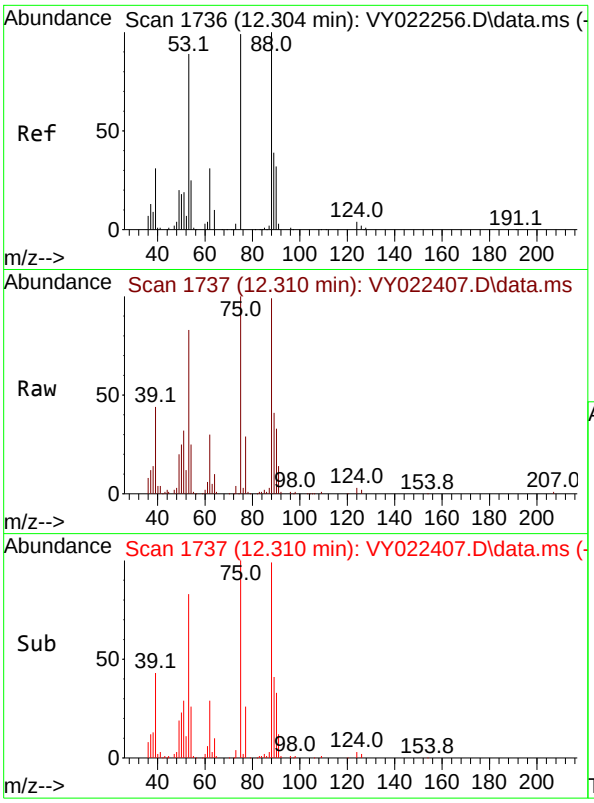


#80
1,3,5-Trimethylbenzene
Concen: 50.370 ug/l
RT: 12.743 min Scan# 1808
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion:105 Resp: 525917

Ion	Ratio	Lower	Upper
105	100		
120	49.4	24.2	72.6



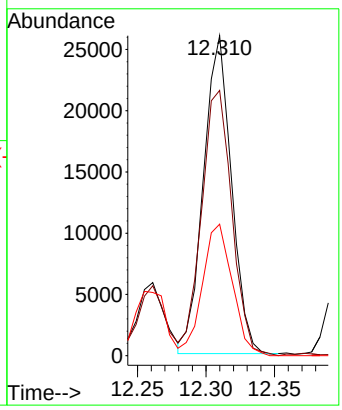


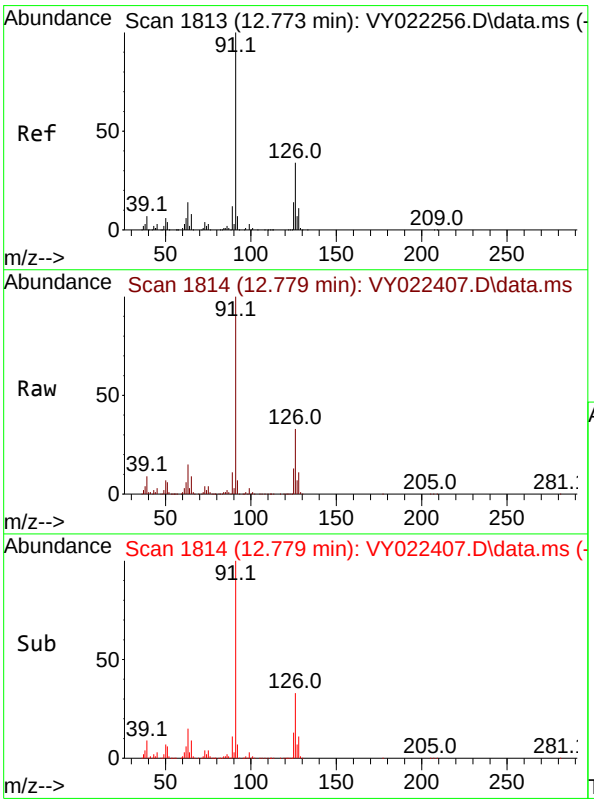
#81
trans-1,4-Dichloro-2-butene
Concen: 47.111 ug/l
RT: 12.310 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 36785

Ion	Ratio	Lower	Upper
75	100		
53	90.7	75.8	113.8
89	44.4	36.2	54.2

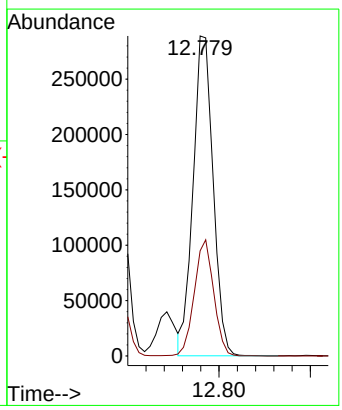


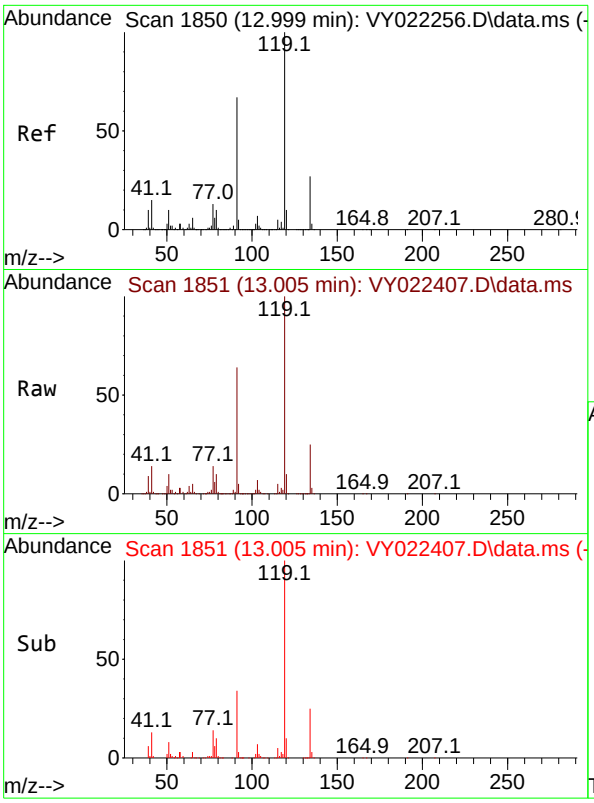


#82
4-Chlorotoluene
Concen: 49.894 ug/l
RT: 12.779 min Scan# 1814
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 91 Resp: 439995

Ion	Ratio	Lower	Upper
91	100		
126	35.2	16.8	50.4



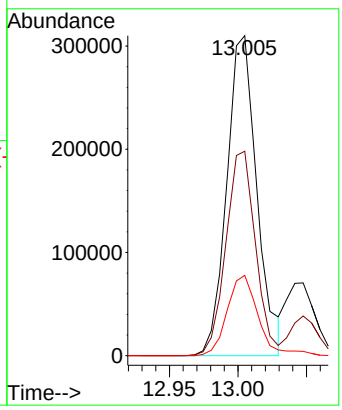


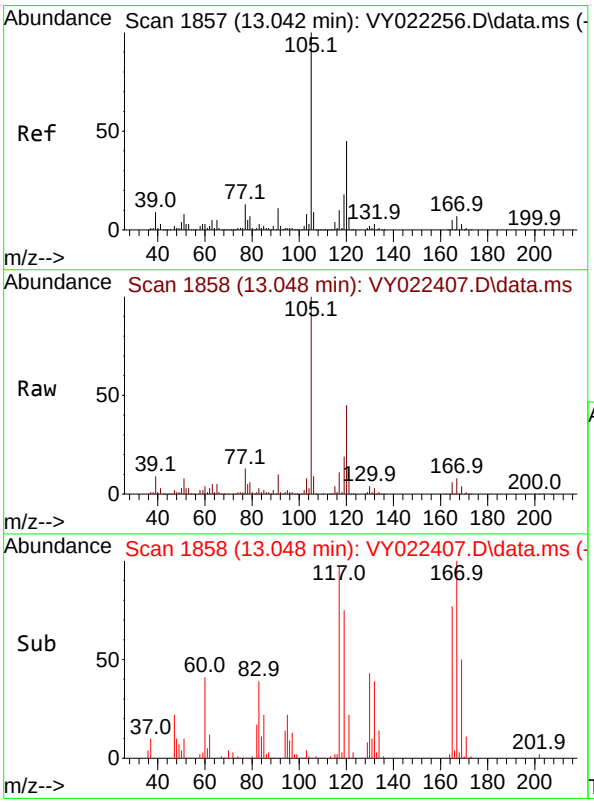
#83
tert-Butylbenzene
Concen: 51.135 ug/l
RT: 13.005 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:119 Resp: 474547

Ion	Ratio	Lower	Upper
119	100		
91	62.9	32.8	98.3
134	26.0	12.9	38.6

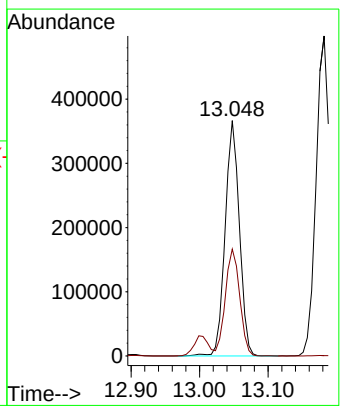


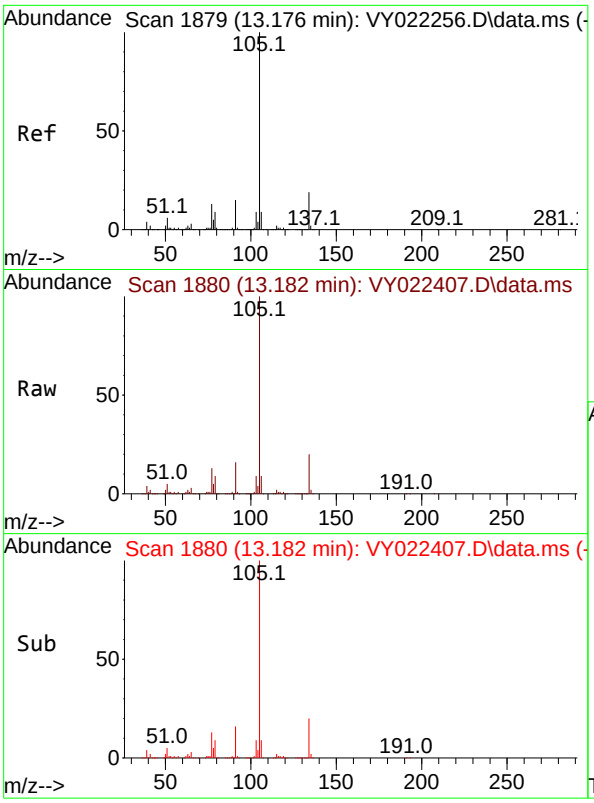


#84
1,2,4-Trimethylbenzene
Concen: 50.812 ug/l
RT: 13.048 min Scan# 1858
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion:105 Resp: 526654

Ion	Ratio	Lower	Upper
105	100		
120	45.8	22.3	66.9



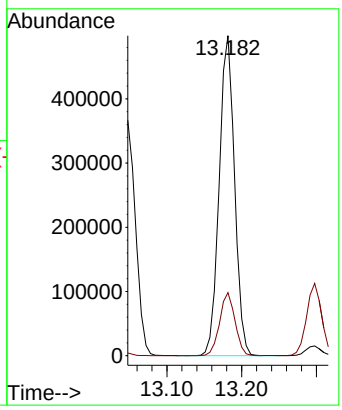


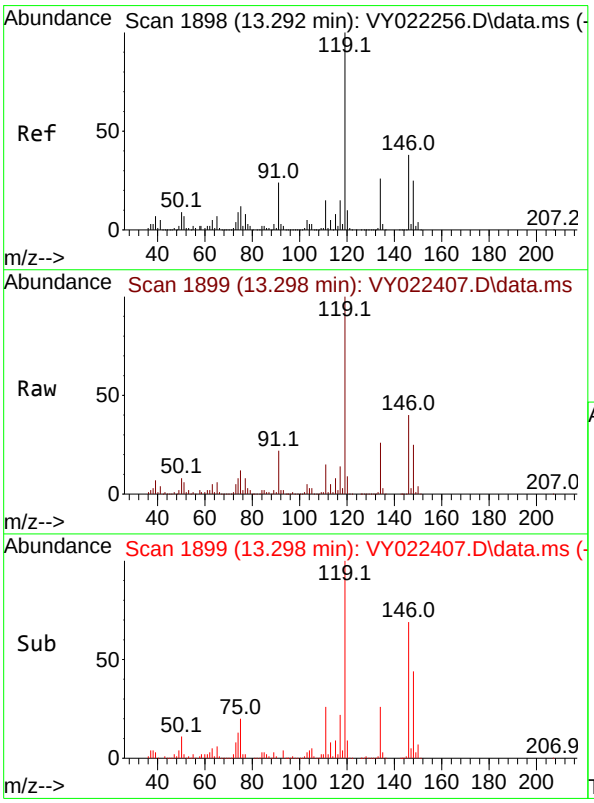
#85
sec-Butylbenzene
Concen: 51.842 ug/l
RT: 13.182 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 714168

Ion	Ratio	Lower	Upper
105	100		
134	19.6	9.8	29.5

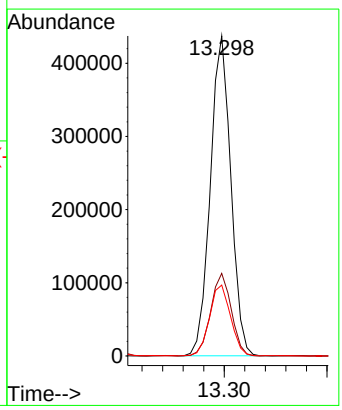


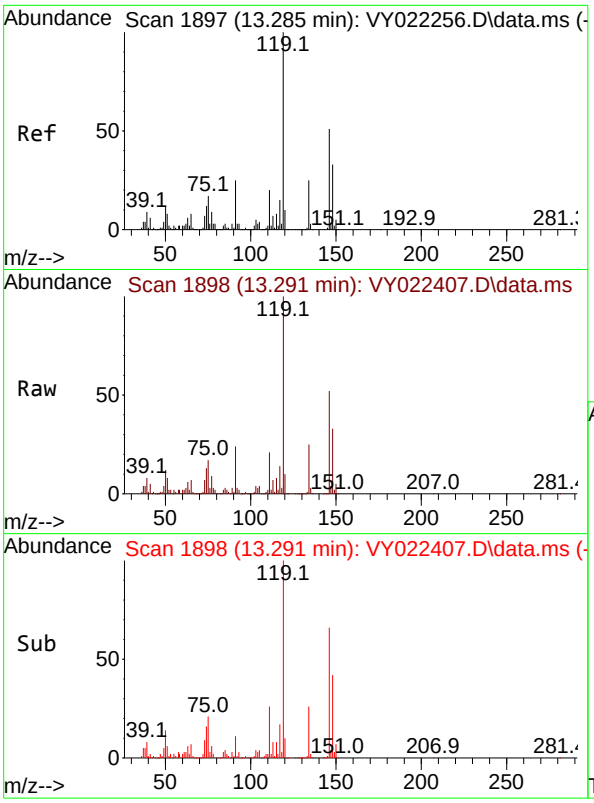


#86
p-Isopropyltoluene
Concen: 52.345 ug/l
RT: 13.298 min Scan# 1899
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion:119 Resp: 606476

Ion	Ratio	Lower	Upper
119	100		
134	26.0	12.9	38.6
91	22.6	12.1	36.3



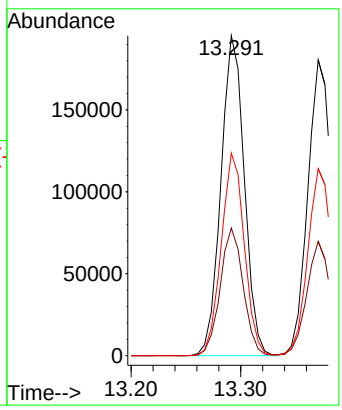


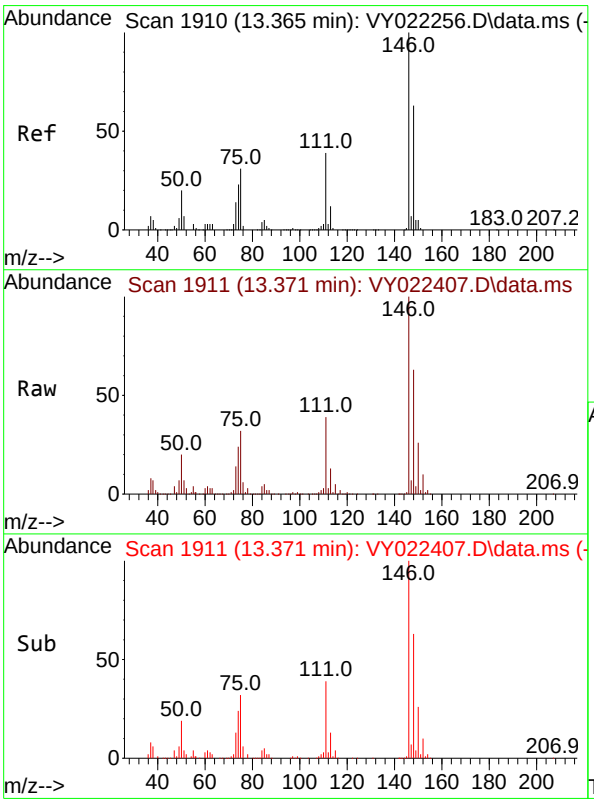
#87
1,3-Dichlorobenzene
Concen: 51.356 ug/l
RT: 13.291 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:146 Resp: 289621

Ion	Ratio	Lower	Upper
146	100		
111	39.2	19.9	59.7
148	62.5	31.9	95.7

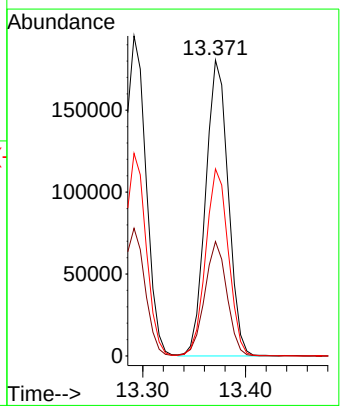


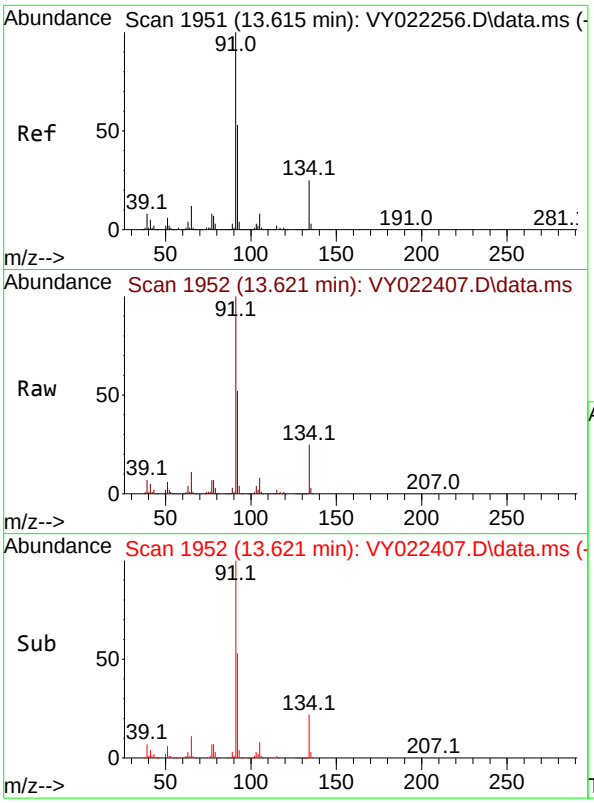


#88
1,4-Dichlorobenzene
Concen: 50.838 ug/l
RT: 13.371 min Scan# 1911
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion:146 Resp: 275777

Ion	Ratio	Lower	Upper
146	100		
111	38.0	20.0	59.9
148	63.6	32.1	96.5



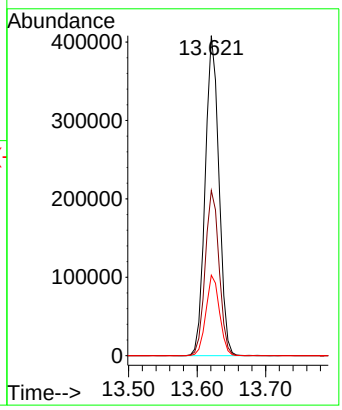


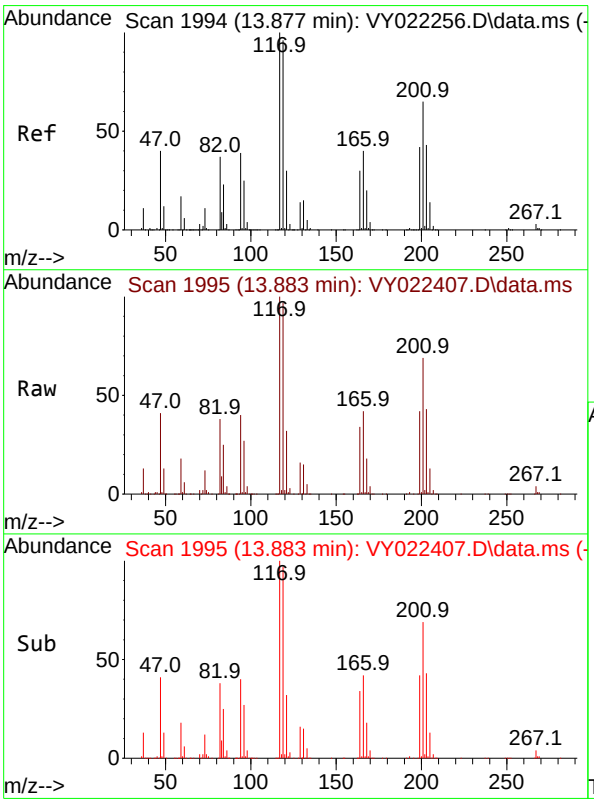
#89
n-Butylbenzene
Concen: 52.136 ug/l
RT: 13.621 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 571460

Ion	Ratio	Lower	Upper
91	100		
92	52.1	26.3	78.9
134	24.8	12.4	37.4

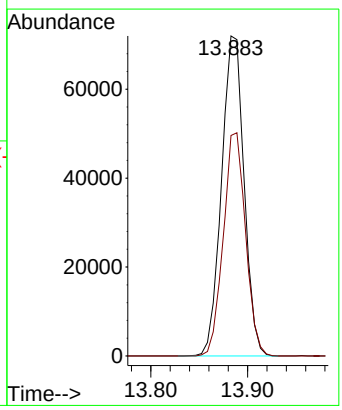


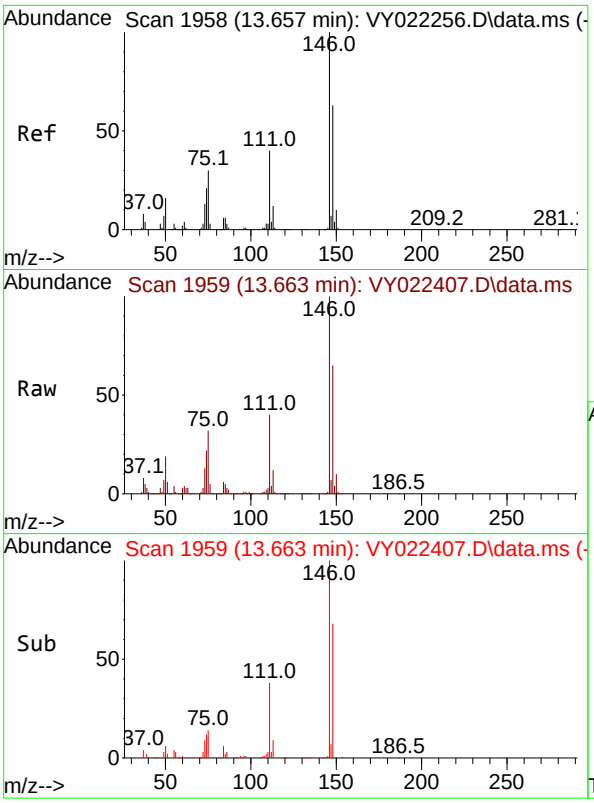


#90
Hexachloroethane
Concen: 49.754 ug/l
RT: 13.883 min Scan# 1995
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion:117 Resp: 116364

Ion	Ratio	Lower	Upper
117	100		
201	68.9	35.2	105.6



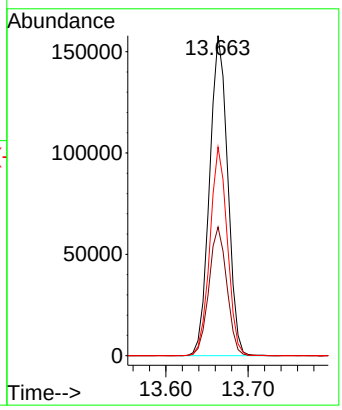


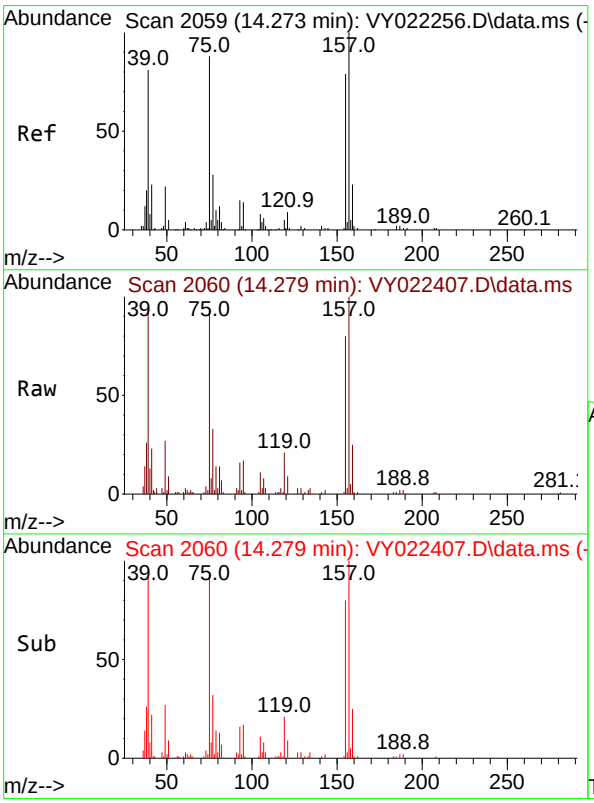
#91
1,2-Dichlorobenzene
Concen: 50.973 ug/l
RT: 13.663 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:146 Resp: 241462

Ion	Ratio	Lower	Upper
146	100		
111	39.8	20.5	61.5
148	62.7	32.0	96.0

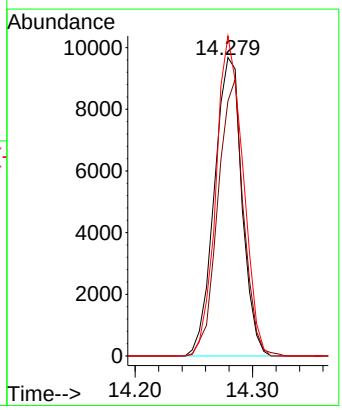


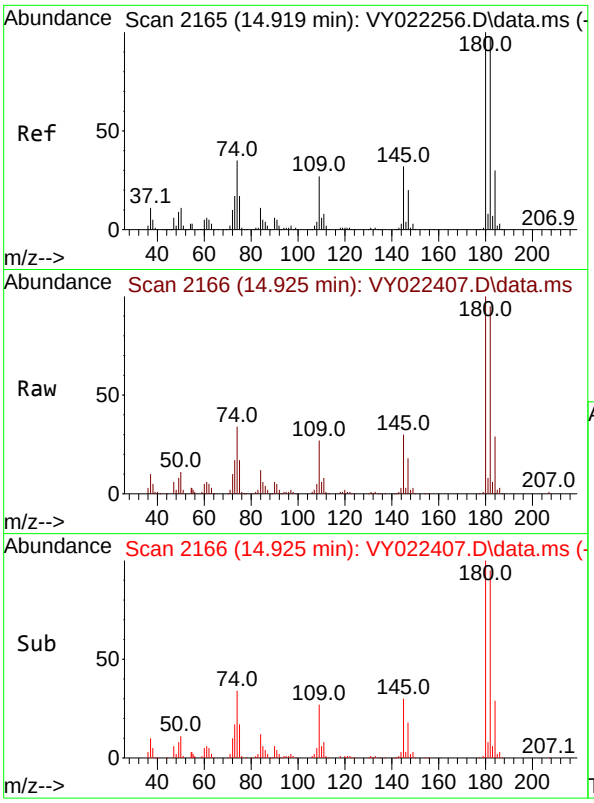


#92
1,2-Dibromo-3-Chloropropane
Concen: 49.266 ug/l
RT: 14.279 min Scan# 2060
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion: 75 Resp: 15803

Ion	Ratio	Lower	Upper
75	100		
155	86.0	43.4	130.1
157	104.9	54.6	163.9



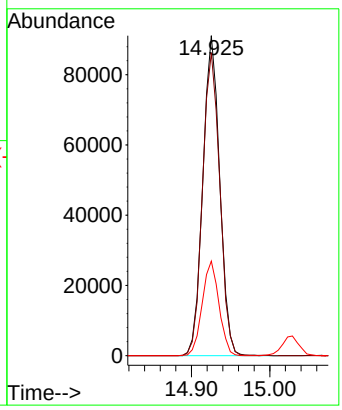


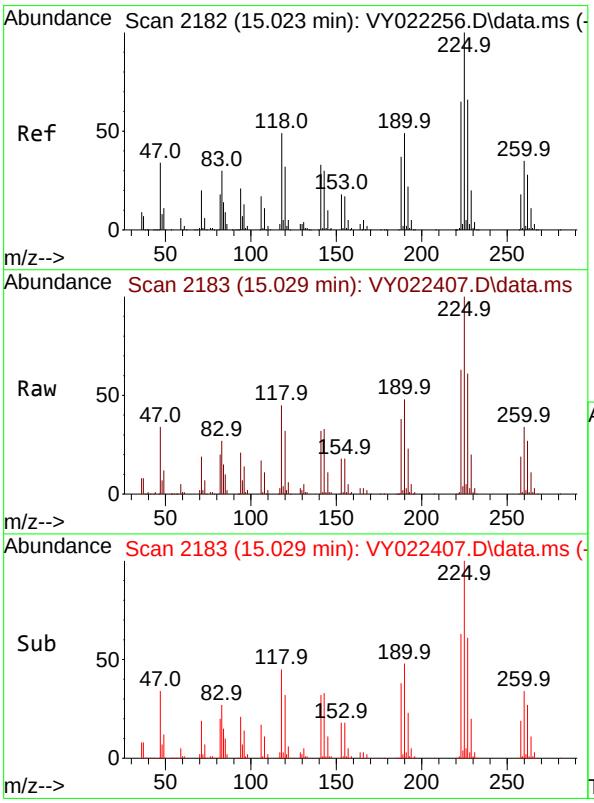
#93
1,2,4-Trichlorobenzene
Concen: 49.720 ug/l
RT: 14.925 min Scan# 21
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:180 Resp: 136047

Ion	Ratio	Lower	Upper
180	100		
182	96.7	48.0	144.0
145	29.4	15.0	45.1

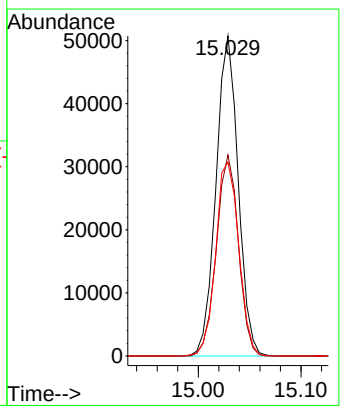


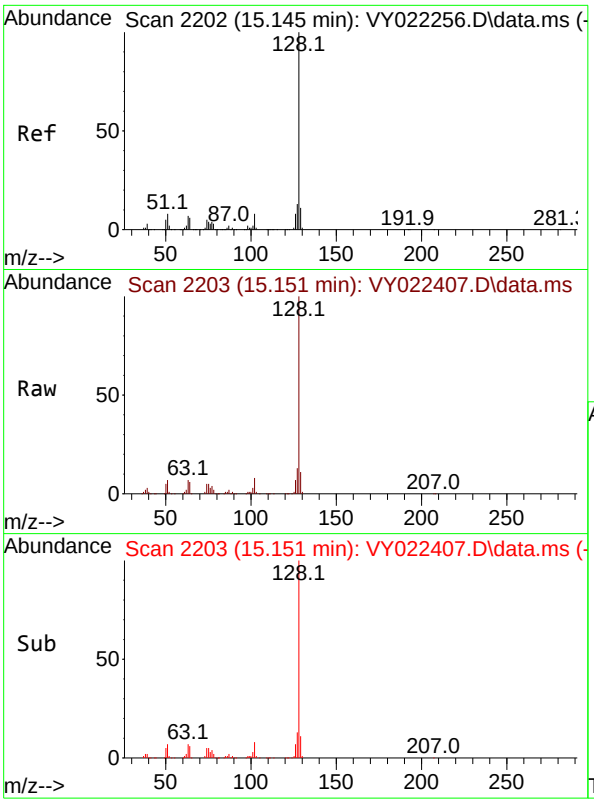


#94
Hexachlorobutadiene
Concen: 49.779 ug/l
RT: 15.029 min Scan# 2183
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion:225 Resp: 75960

Ion	Ratio	Lower	Upper
225	100		
223	62.3	31.5	94.5
227	63.0	32.1	96.3



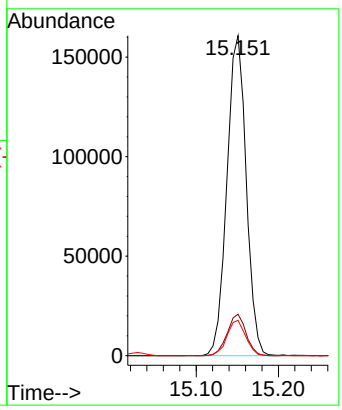


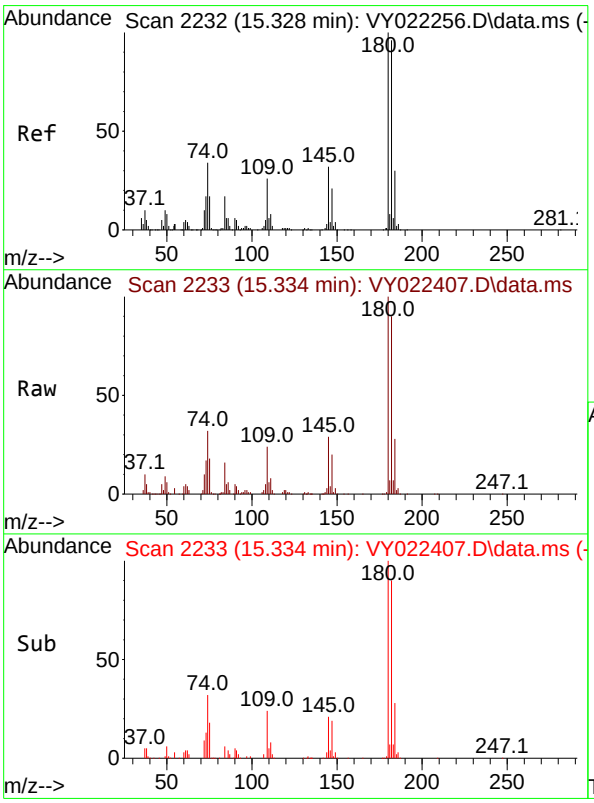
#95
Naphthalene
Concen: 50.366 ug/l
RT: 15.151 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Tgt Ion:128 Resp: 261527

Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.2	15.2
129	10.8	8.8	13.2

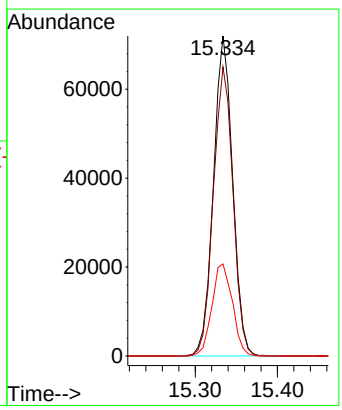




#96
1,2,3-Trichlorobenzene
Concen: 50.307 ug/l
RT: 15.334 min Scan# 2233
Delta R.T. 0.006 min
Lab File: VY022407.D
Acq: 23 May 2025 14:34

Tgt Ion:180 Resp: 116775

Ion	Ratio	Lower	Upper
180	100		
182	92.2	47.1	141.3
145	30.6	15.9	47.6



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022409.D
Acq On : 23 May 2025 16:28
Operator : SY/MD
Sample : VY0523SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

Quant Time: May 23 23:20:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	220484	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.621	114	365163	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	306453	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.352	152	141917	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	122214	50.718	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 101.440%			
35) Dibromofluoromethane	7.646	113	116726	53.556	ug/l	0.01
Spiked Amount 50.000	Range 54 - 147		Recovery = 107.120%			
50) Toluene-d8	10.115	98	477724	53.519	ug/l	0.01
Spiked Amount 50.000	Range 58 - 134		Recovery = 107.040%			
62) 4-Bromofluorobenzene	12.407	95	137951	48.757	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 97.520%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	47450	20.625	ug/l	98
3) Chloromethane	2.068	50	116162	24.002	ug/l	97
4) Vinyl Chloride	2.208	62	136097	25.171	ug/l	96
5) Bromomethane	2.598	94	152048	34.544	ug/l	99
6) Chloroethane	2.738	64	91246	27.126	ug/l	98
7) Trichlorofluoromethane	3.055	101	125355	22.899	ug/l	98
8) Diethyl Ether	3.458	74	26297	20.016	ug/l	93
9) 1,1,2-Trichlorotrifluo...	3.817	101	54194	22.803	ug/l	98
10) Methyl Iodide	4.006	142	50705	18.434	ug/l	99
11) Tert butyl alcohol	4.884	59	18052	98.102	ug/l #	100
12) 1,1-Dichloroethene	3.799	96	52119	22.099	ug/l	91
13) Acrolein	3.659	56	14247	52.961	ug/l	97
14) Allyl chloride	4.391	41	72531	17.539	ug/l	92
15) Acrylonitrile	5.073	53	53818	99.417	ug/l	99
16) Acetone	3.885	43	64882	143.598	ug/l	96
17) Carbon Disulfide	4.116	76	153044	19.900	ug/l	96
18) Methyl Acetate	4.403	43	22419	15.737	ug/l	93
19) Methyl tert-butyl Ether	5.128	73	130694	20.098	ug/l	95
20) Methylene Chloride	4.622	84	57155	19.576	ug/l	97
21) trans-1,2-Dichloroethene	5.122	96	52976	20.350	ug/l	96
22) Diisopropyl ether	6.024	45	157311	18.014	ug/l	95
23) Vinyl Acetate	5.969	43	490218	92.917	ug/l	98
24) 1,1-Dichloroethane	5.921	63	97335	19.950	ug/l	99
25) 2-Butanone	6.902	43	83136	110.000	ug/l	99
26) 2,2-Dichloropropane	6.896	77	89975	20.734	ug/l	99
27) cis-1,2-Dichloroethene	6.902	96	61445	20.454	ug/l	97
28) Bromochloromethane	7.250	49	41072	19.736	ug/l	96
29) Tetrahydrofuran	7.268	42	46580	95.797	ug/l	93
30) Chloroform	7.427	83	95738	20.458	ug/l	98
31) Cyclohexane	7.713	56	98151	20.135	ug/l	97
32) 1,1,1-Trichloroethane	7.628	97	89072	20.746	ug/l	99
36) 1,1-Dichloropropene	7.847	75	74413	20.729	ug/l	98
37) Ethyl Acetate	6.994	43	32944	19.073	ug/l	96
38) Carbon Tetrachloride	7.829	117	77588	20.880	ug/l	95
39) Methylcyclohexane	9.115	83	102984	21.353	ug/l	96
40) Benzene	8.091	78	215939	20.291	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022409.D
Acq On : 23 May 2025 16:28
Operator : SY/MD
Sample : VY0523SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

Quant Time: May 23 23:20:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	7.231	41	15274	13.331 ug/l #	72
42) 1,2-Dichloroethane	8.164	62	56548	19.649 ug/l	97
43) Isopropyl Acetate	8.207	43	70370	18.681 ug/l	98
44) Trichloroethene	8.871	130	55056	20.806 ug/l	96
45) 1,2-Dichloropropane	9.146	63	51291	19.991 ug/l	97
46) Dibromomethane	9.237	93	28589	20.659 ug/l	99
47) Bromodichloromethane	9.426	83	71724	19.978 ug/l	100
48) Methyl methacrylate	9.231	41	30712	17.434 ug/l	88
49) 1,4-Dioxane	9.237	88	6085	389.226 ug/l	93
51) 4-Methyl-2-Pentanone	10.005	43	171509	92.790 ug/l	96
52) Toluene	10.176	92	136262	20.220 ug/l	100
53) t-1,3-Dichloropropene	10.402	75	68682	19.603 ug/l	99
54) cis-1,3-Dichloropropene	9.865	75	79085	19.702 ug/l	94
55) 1,1,2-Trichloroethane	10.578	97	35739	20.168 ug/l	96
56) Ethyl methacrylate	10.444	69	54901	19.889 ug/l	92
57) 1,3-Dichloropropane	10.725	76	64791	20.578 ug/l	100
58) 2-Chloroethyl Vinyl ether	9.719	63	106348	85.834 ug/l	97
59) 2-Hexanone	10.767	43	127089	102.550 ug/l	96
60) Dibromochloromethane	10.920	129	46918	20.398 ug/l	99
61) 1,2-Dibromoethane	11.023	107	34146	20.674 ug/l	99
64) Tetrachloroethene	10.652	164	59668	21.065 ug/l	99
65) Chlorobenzene	11.450	112	142059	20.547 ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.517	131	47723	20.078 ug/l	99
67) Ethyl Benzene	11.523	91	262665	20.286 ug/l	99
68) m/p-Xylenes	11.633	106	197872	40.555 ug/l	96
69) o-Xylene	11.956	106	91898	19.908 ug/l	98
70) Styrene	11.975	104	153910	19.765 ug/l	97
71) Bromoform	12.139	173	25596	19.951 ug/l #	97
73) Isopropylbenzene	12.261	105	247301	21.034 ug/l	100
74) N-amyl acetate	12.072	43	61277	18.223 ug/l	96
75) 1,1,2,2-Tetrachloroethane	12.511	83	37759	20.883 ug/l	97
76) 1,2,3-Trichloropropane	12.560	75	54551	37.941 ug/l #	100
77) Bromobenzene	12.535	156	52367	20.854 ug/l	95
78) n-propylbenzene	12.602	91	296181	20.885 ug/l	99
79) 2-Chlorotoluene	12.682	91	155703	19.979 ug/l	97
80) 1,3,5-Trimethylbenzene	12.743	105	191546	20.182 ug/l	100
81) trans-1,4-Dichloro-2-b...	12.310	75	13059	18.400 ug/l	98
82) 4-Chlorotoluene	12.785	91	157322	19.626 ug/l	97
83) tert-Butylbenzene	13.005	119	175804	20.841 ug/l	98
84) 1,2,4-Trimethylbenzene	13.047	105	188374	19.994 ug/l	98
85) sec-Butylbenzene	13.182	105	266407	21.275 ug/l	100
86) p-Isopropyltoluene	13.297	119	213699	20.291 ug/l	98
87) 1,3-Dichlorobenzene	13.291	146	103478	20.186 ug/l	98
88) 1,4-Dichlorobenzene	13.371	146	100997	20.483 ug/l	99
89) n-Butylbenzene	13.621	91	210175	21.095 ug/l	98
90) Hexachloroethane	13.883	117	43322	20.378 ug/l	98
91) 1,2-Dichlorobenzene	13.663	146	88356	20.520 ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.279	75	5917	20.294 ug/l	96
93) 1,2,4-Trichlorobenzene	14.925	180	47978	19.290 ug/l	99
94) Hexachlorobutadiene	15.029	225	25900	18.673 ug/l	94
95) Naphthalene	15.151	128	86870	18.405 ug/l	98
96) 1,2,3-Trichlorobenzene	15.334	180	40075	18.993 ug/l	98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022409.D
Acq On : 23 May 2025 16:28
Operator : SY/MD
Sample : VY0523SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

Quant Time: May 23 23:20:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

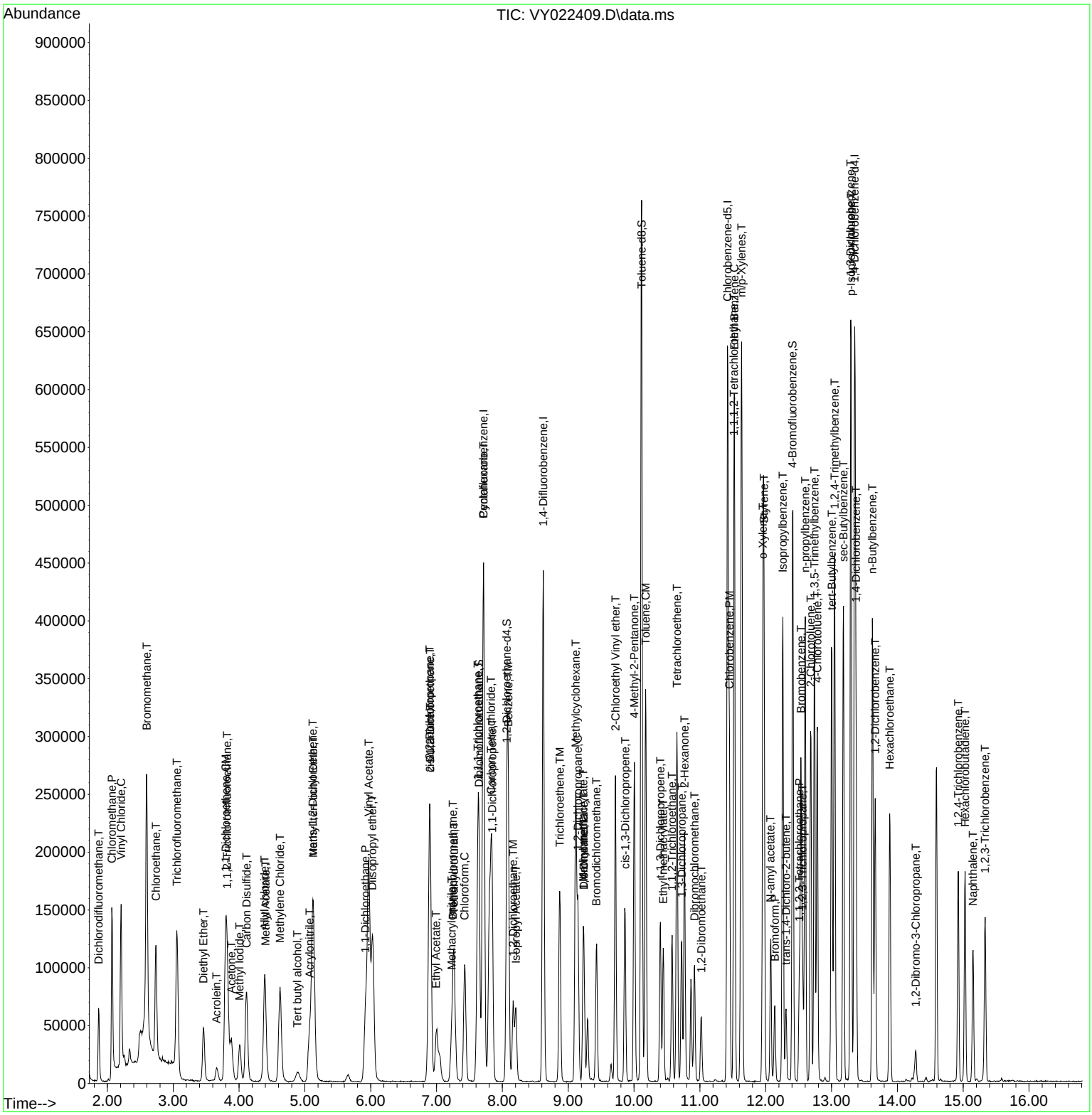
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

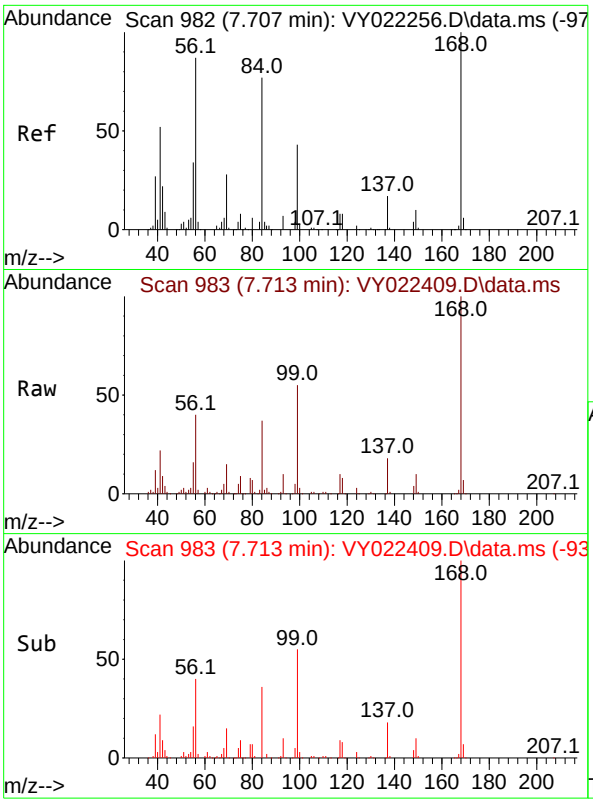
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022409.D
Acq On : 23 May 2025 16:28
Operator : SY/MD
Sample : VY0523SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

Quant Time: May 23 23:20:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration



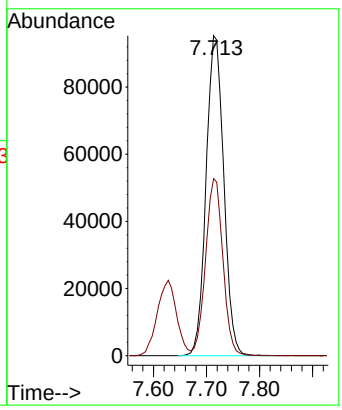


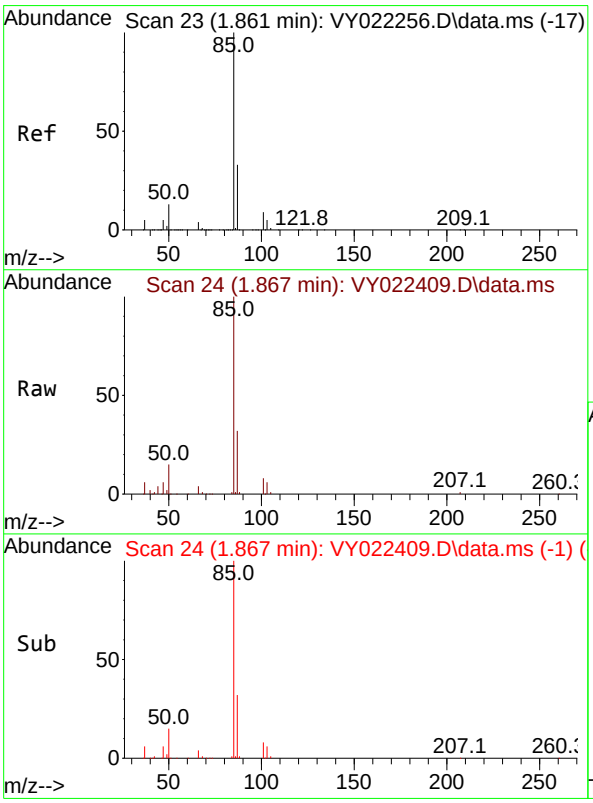
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

Tgt Ion:168 Resp: 220484

Ion	Ratio	Lower	Upper
168	100		
99	55.3	44.2	66.4

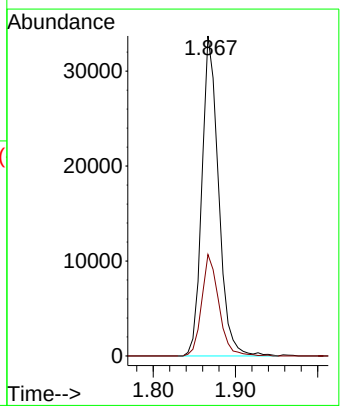


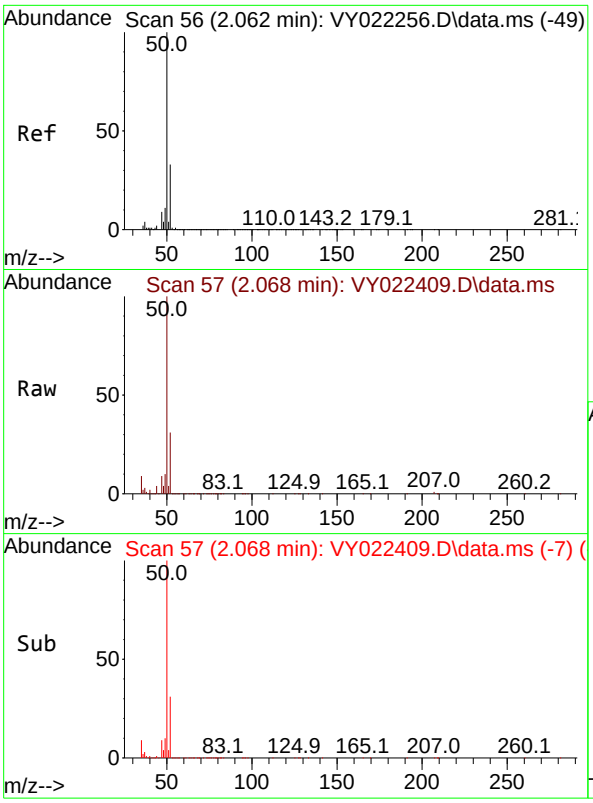


#2
Dichlorodifluoromethane
Concen: 20.625 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 85 Resp: 47450

Ion	Ratio	Lower	Upper
85	100		
87	31.7	16.5	49.5



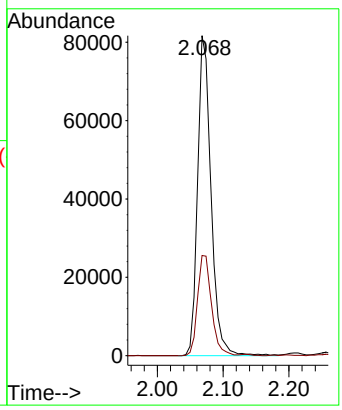


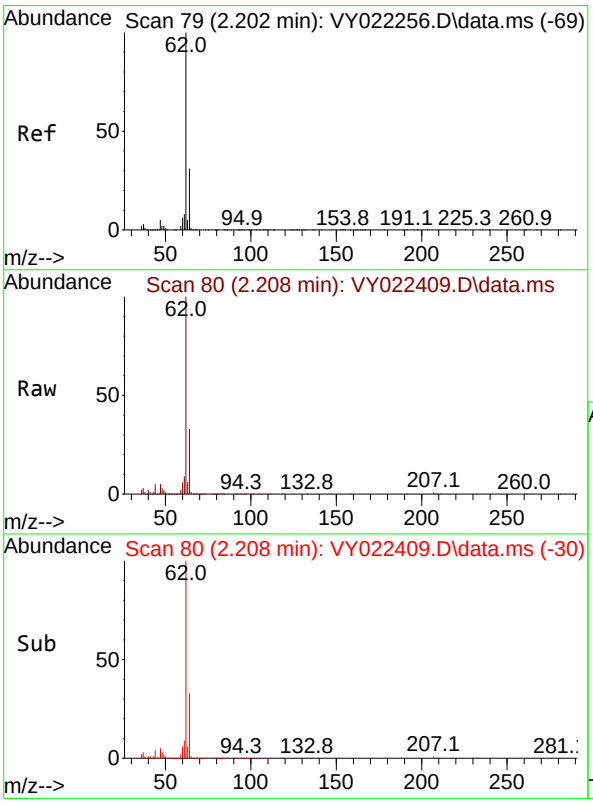
#3
Chloromethane
Concen: 24.002 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

Tgt Ion: 50 Resp: 116162

Ion	Ratio	Lower	Upper
50	100		
52	31.3	26.5	39.7

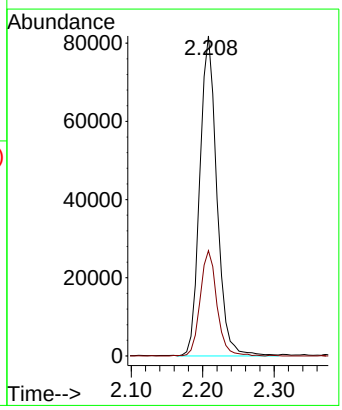


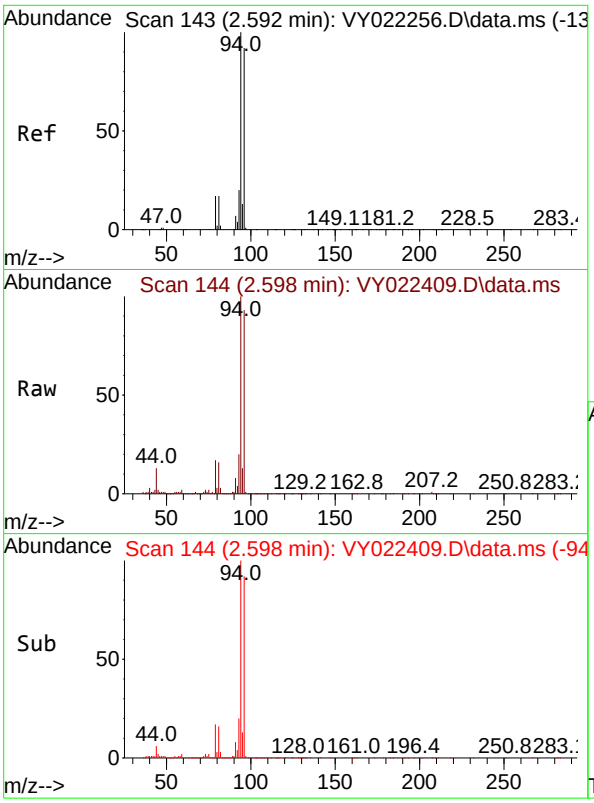


#4
Vinyl Chloride
Concen: 25.171 ug/l
RT: 2.208 min Scan# 80
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 62 Resp: 136097

Ion	Ratio	Lower	Upper
62	100		
64	32.8	24.5	36.7



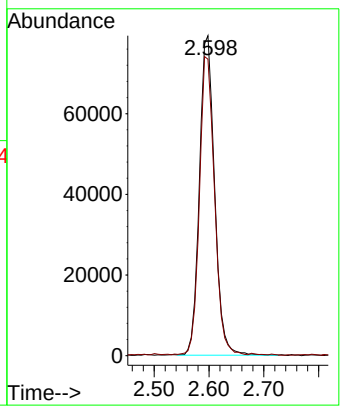


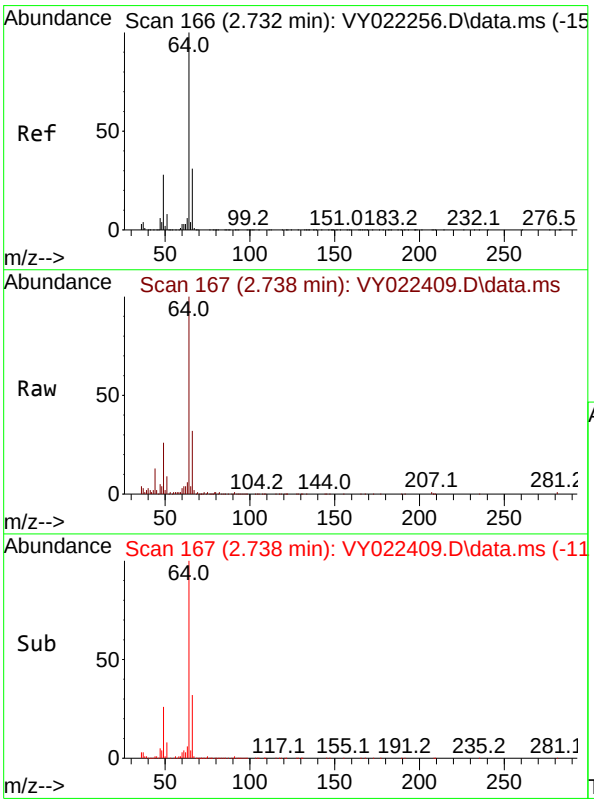
#5
Bromomethane
Concen: 34.544 ug/l
RT: 2.598 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

Tgt Ion: 94 Resp: 152048

Ion	Ratio	Lower	Upper
94	100		
96	92.5	73.4	110.0

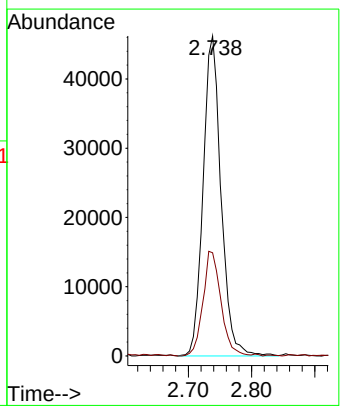


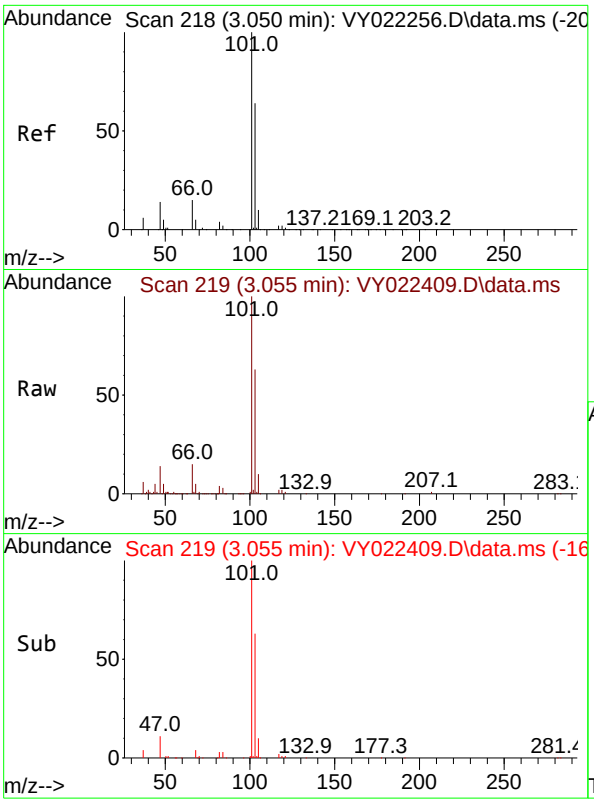


#6
Chloroethane
Concen: 27.126 ug/l
RT: 2.738 min Scan# 167
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 64 Resp: 91246

Ion	Ratio	Lower	Upper
64	100		
66	32.2	24.8	37.2



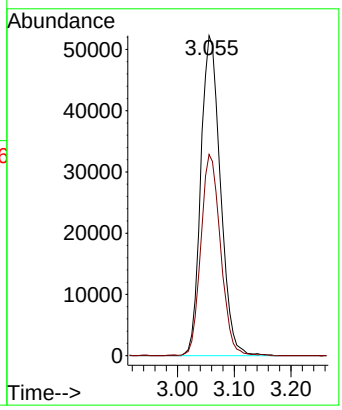


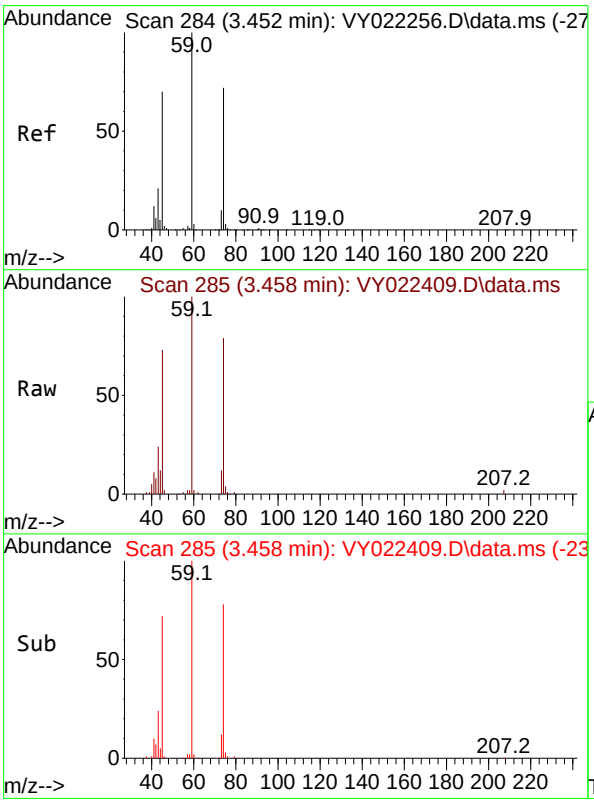
#7
Trichlorofluoromethane
Concen: 22.899 ug/l
RT: 3.055 min Scan# 21
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

Tgt Ion:101 Resp: 125355

Ion	Ratio	Lower	Upper
101	100		
103	62.9	51.7	77.5

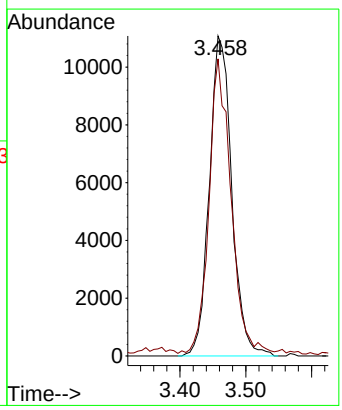


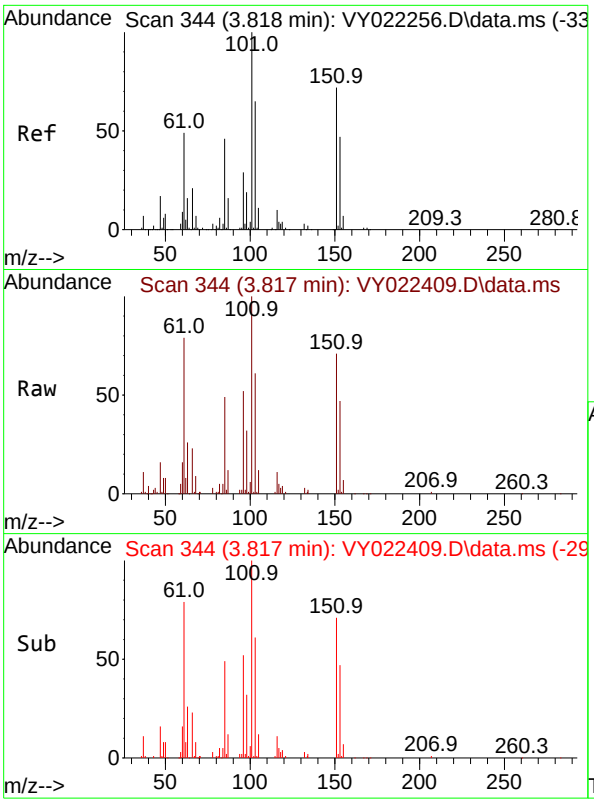


#8
Diethyl Ether
Concen: 20.016 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 74 Resp: 26297

Ion	Ratio	Lower	Upper
74	100		
45	90.0	48.6	145.8



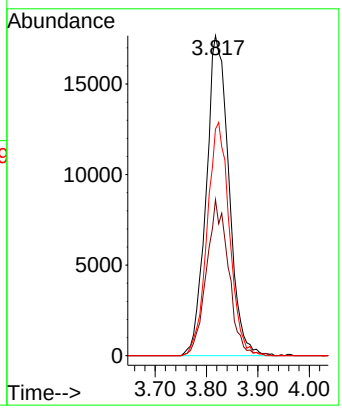


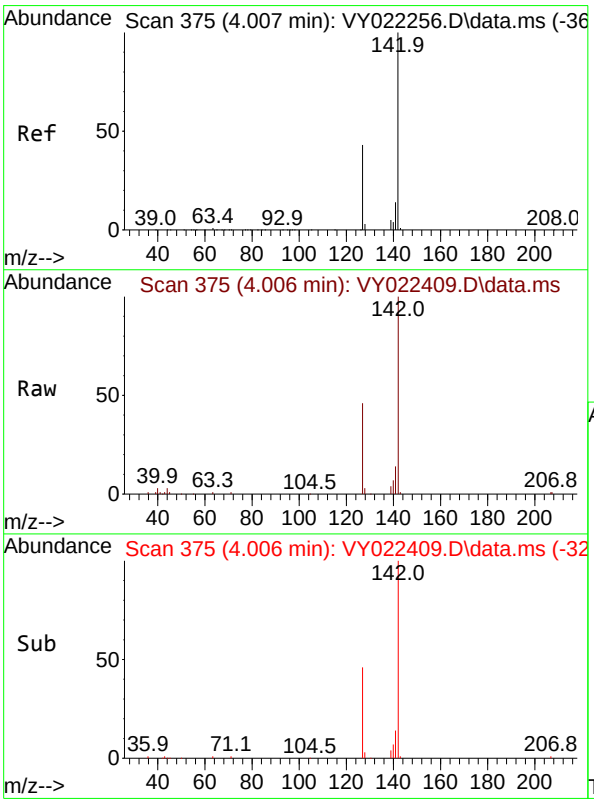
#9
1,1,2-Trichlorotrifluoroethane
Concen: 22.803 ug/l
RT: 3.817 min Scan# 34
Delta R.T. -0.000 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

Tgt Ion:101 Resp: 54194

Ion	Ratio	Lower	Upper
101	100		
85	47.7	38.6	58.0
151	71.8	59.7	89.5

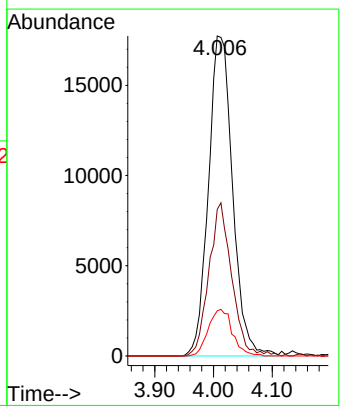


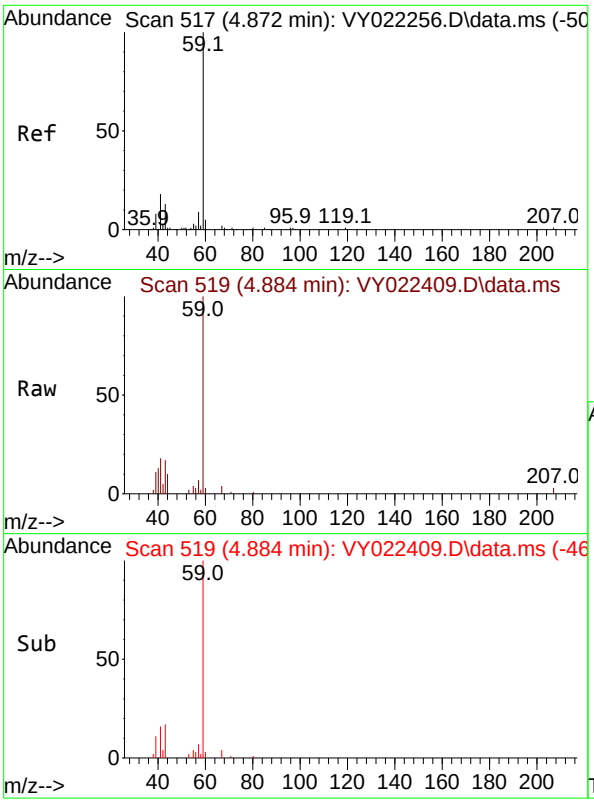


#10
Methyl Iodide
Concen: 18.434 ug/l
RT: 4.006 min Scan# 375
Delta R.T. -0.000 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion:142 Resp: 50705

Ion	Ratio	Lower	Upper
142	100		
127	45.3	35.7	53.5
141	14.5	11.1	16.7



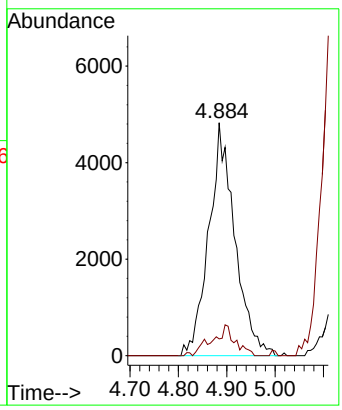


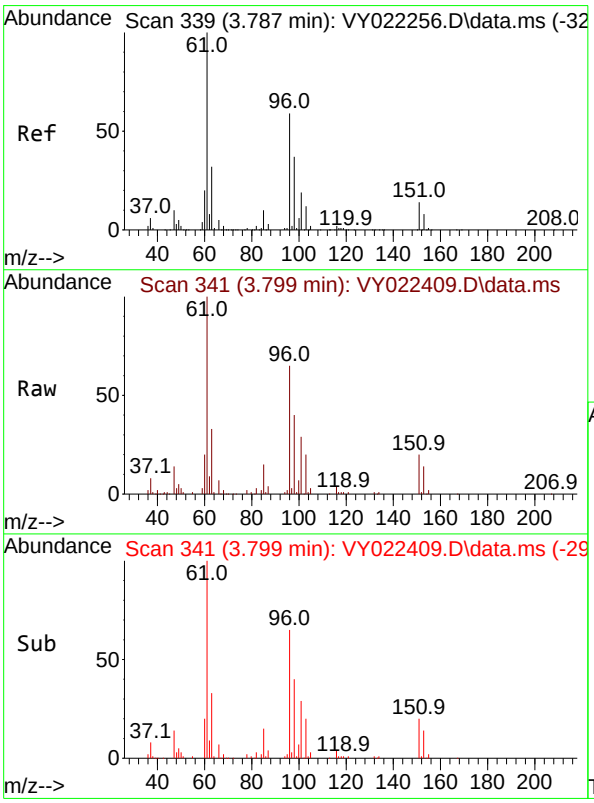
#11
Tert butyl alcohol
Concen: 98.102 ug/l
RT: 4.884 min Scan# 5
Delta R.T. 0.012 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

Tgt Ion: 59 Resp: 18052

Ion	Ratio	Lower	Upper
59	100		
57	8.6	0.0	0.0#

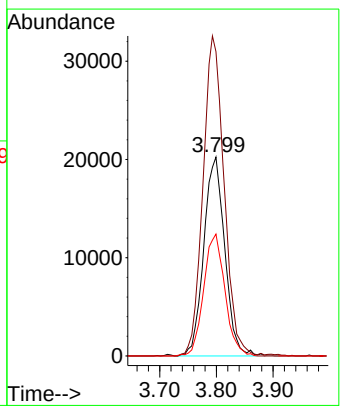


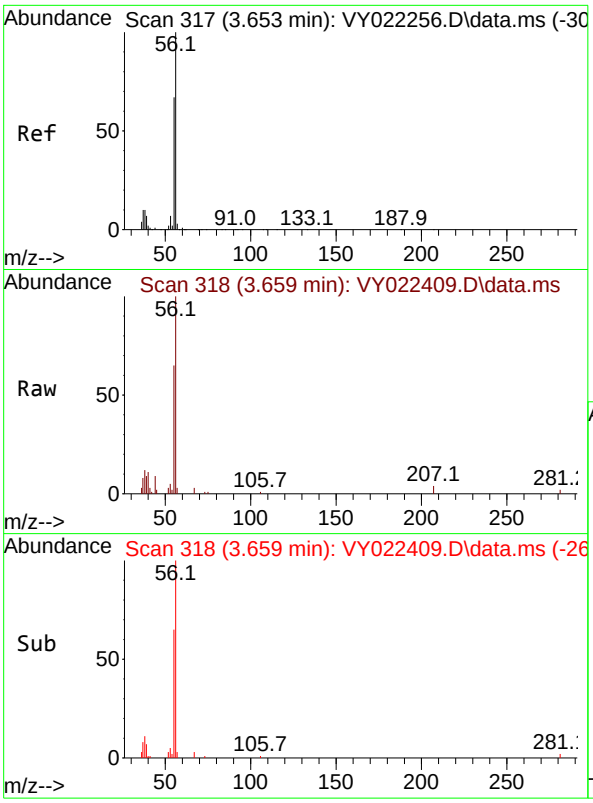


#12
1,1-Dichloroethene
Concen: 22.099 ug/l
RT: 3.799 min Scan# 341
Delta R.T. 0.012 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 96 Resp: 52119

Ion	Ratio	Lower	Upper
96	100		
61	153.0	134.9	202.3
98	61.3	49.9	74.9



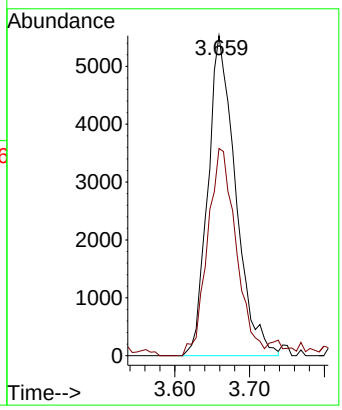


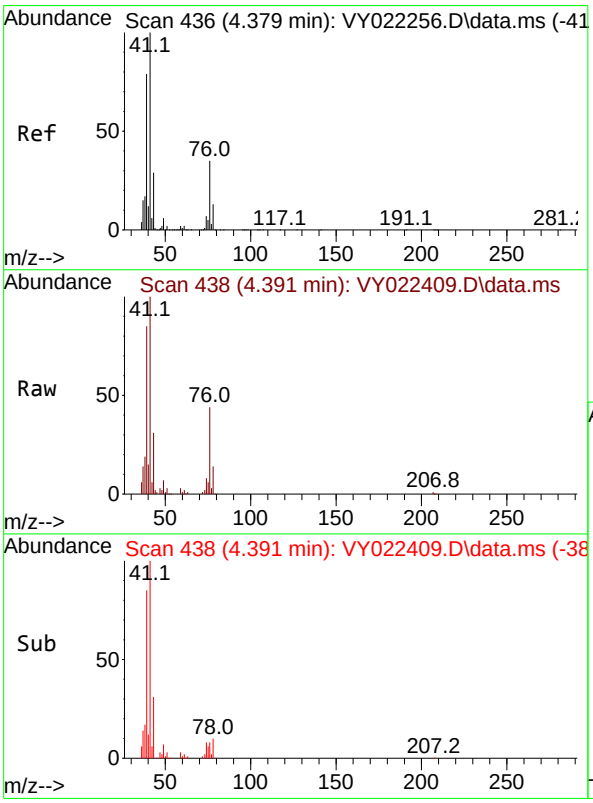
#13
Acrolein
Concen: 52.961 ug/l
RT: 3.659 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

Tgt Ion: 56 Resp: 14247

Ion	Ratio	Lower	Upper
56	100		
55	66.8	55.6	83.4

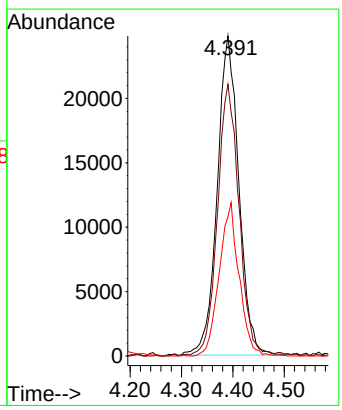


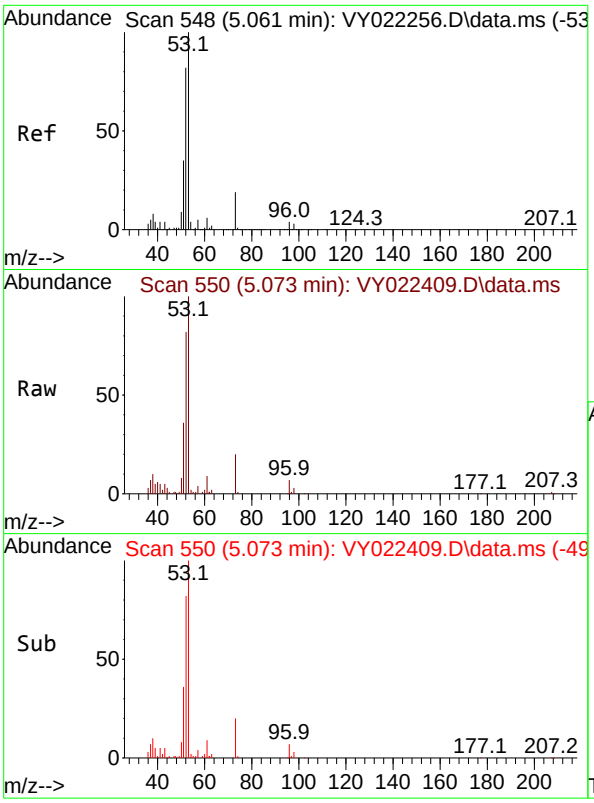


#14
Allyl chloride
Concen: 17.539 ug/l
RT: 4.391 min Scan# 438
Delta R.T. 0.012 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 41 Resp: 72531

Ion	Ratio	Lower	Upper
41	100		
39	84.8	63.4	95.0
76	44.2	29.5	44.3



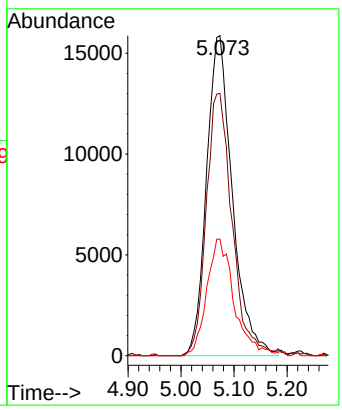


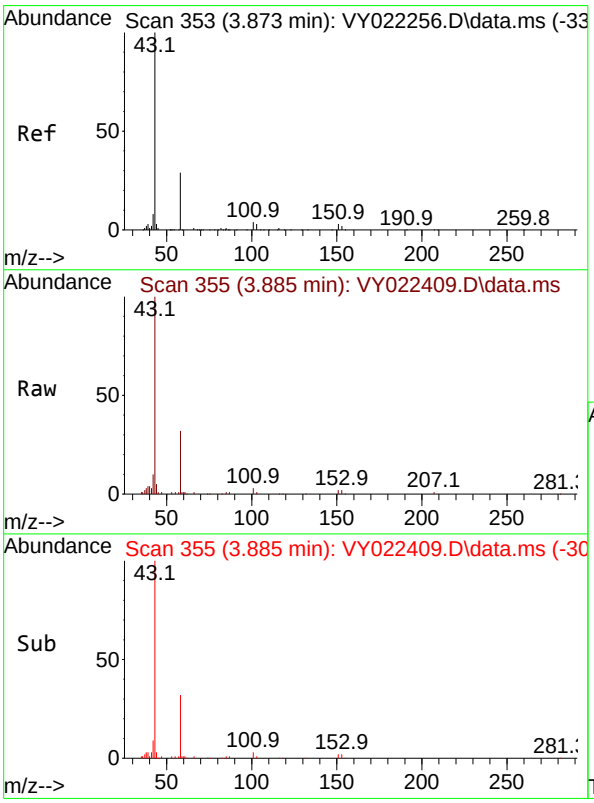
#15
Acrylonitrile
Concen: 99.417 ug/l
RT: 5.073 min Scan# 5
Delta R.T. 0.012 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

Tgt Ion: 53 Resp: 53818

Ion	Ratio	Lower	Upper
53	100		
52	81.6	66.1	99.1
51	38.5	30.0	45.0

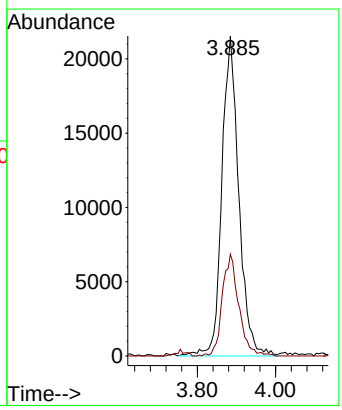


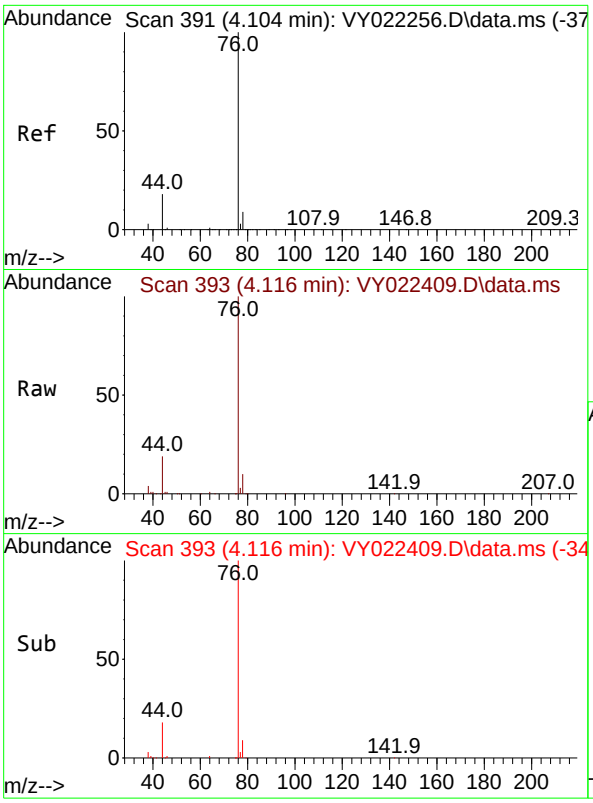


#16
Acetone
Concen: 143.598 ug/l
RT: 3.885 min Scan# 355
Delta R.T. 0.012 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 43 Resp: 64882

Ion	Ratio	Lower	Upper
43	100		
58	31.8	23.6	35.4



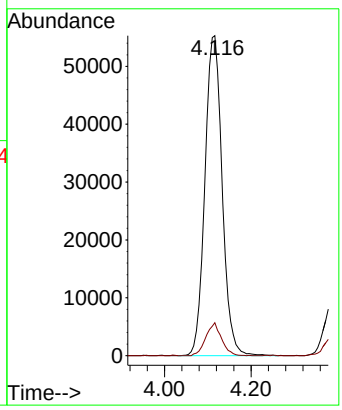


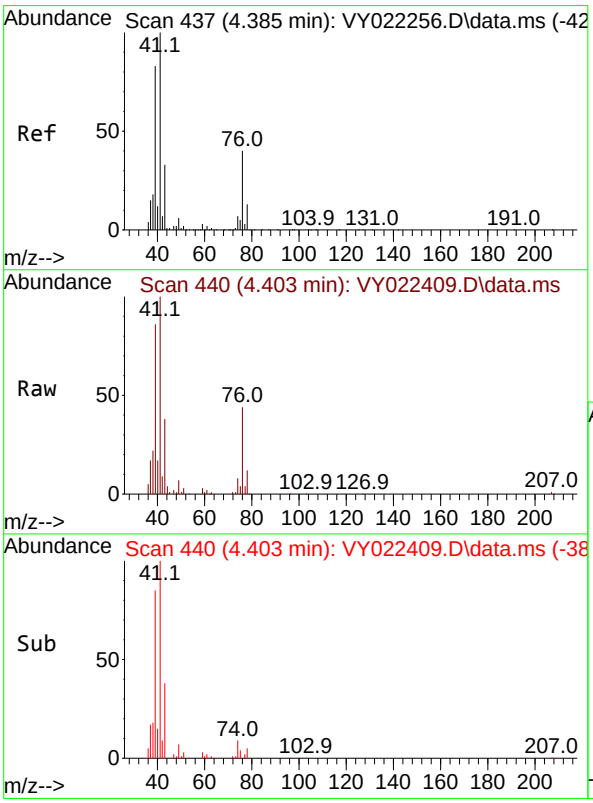
#17
Carbon Disulfide
Concen: 19.900 ug/l
RT: 4.116 min Scan# 3
Delta R.T. 0.012 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

Tgt Ion: 76 Resp: 153044

Ion	Ratio	Lower	Upper
76	100		
78	10.3	7.2	10.8

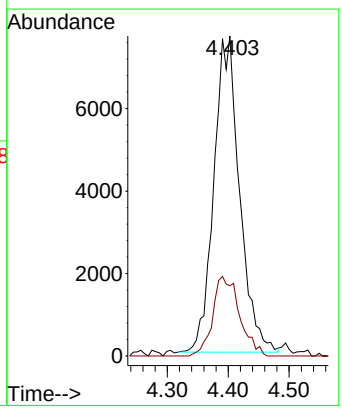


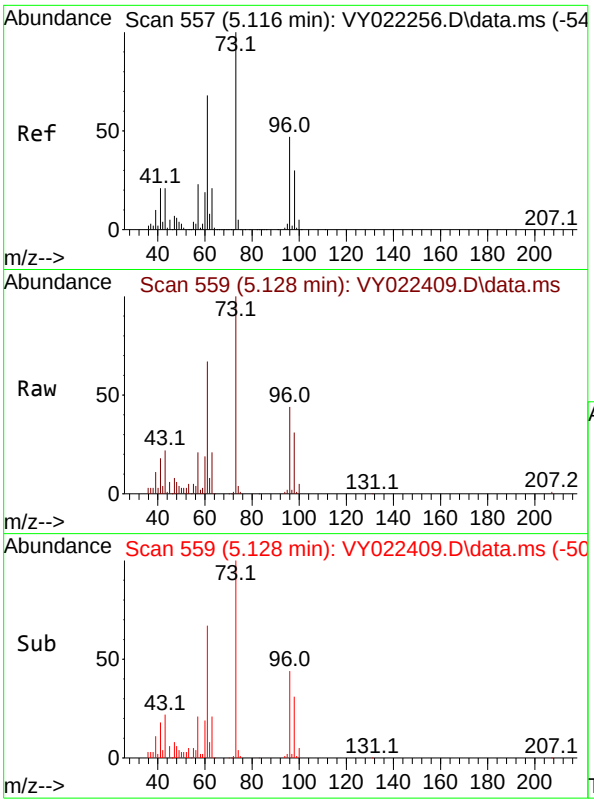


#18
Methyl Acetate
Concen: 15.737 ug/l
RT: 4.403 min Scan# 440
Delta R.T. 0.018 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 43 Resp: 22419

Ion	Ratio	Lower	Upper
43	100		
74	26.3	18.2	27.4



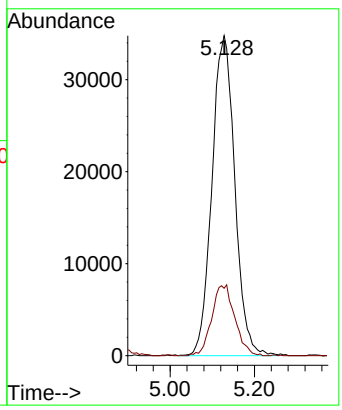


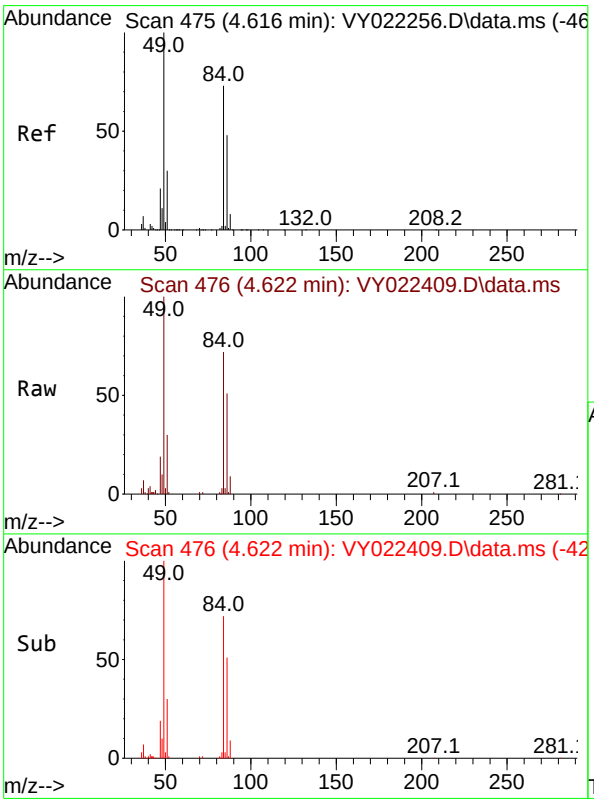
#19
Methyl tert-butyl Ether
Concen: 20.098 ug/l
RT: 5.128 min Scan# 5
Delta R.T. 0.012 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

Tgt Ion: 73 Resp: 130694

Ion	Ratio	Lower	Upper
73	100		
57	21.0	18.6	28.0

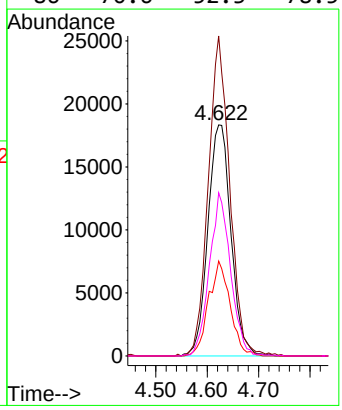


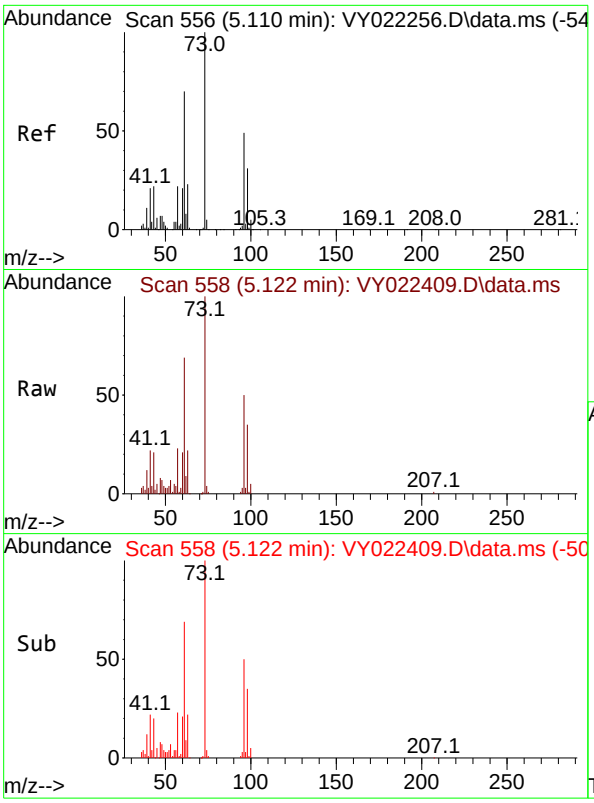


#20
Methylene Chloride
Concen: 19.576 ug/l
RT: 4.622 min Scan# 476
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 84 Resp: 57155

Ion	Ratio	Lower	Upper
84	100		
49	138.2	109.6	164.4
51	41.0	32.4	48.6
86	70.6	52.3	78.5



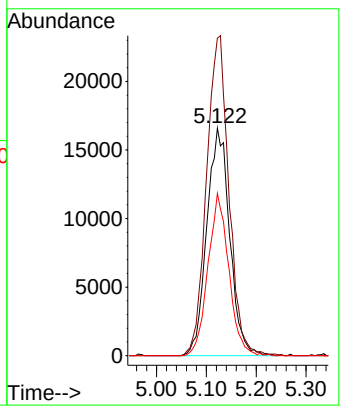


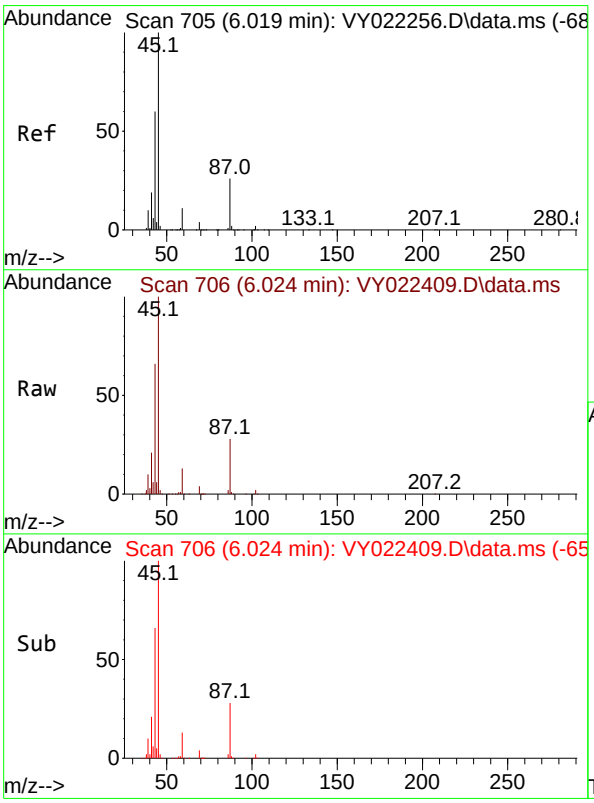
#21
trans-1,2-Dichloroethene
Concen: 20.350 ug/l
RT: 5.122 min Scan# 5
Delta R.T. 0.012 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

Tgt Ion: 96 Resp: 52976

Ion	Ratio	Lower	Upper
96	100		
61	139.4	113.4	170.0
98	71.2	50.9	76.3

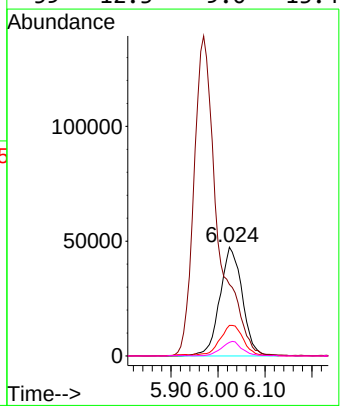


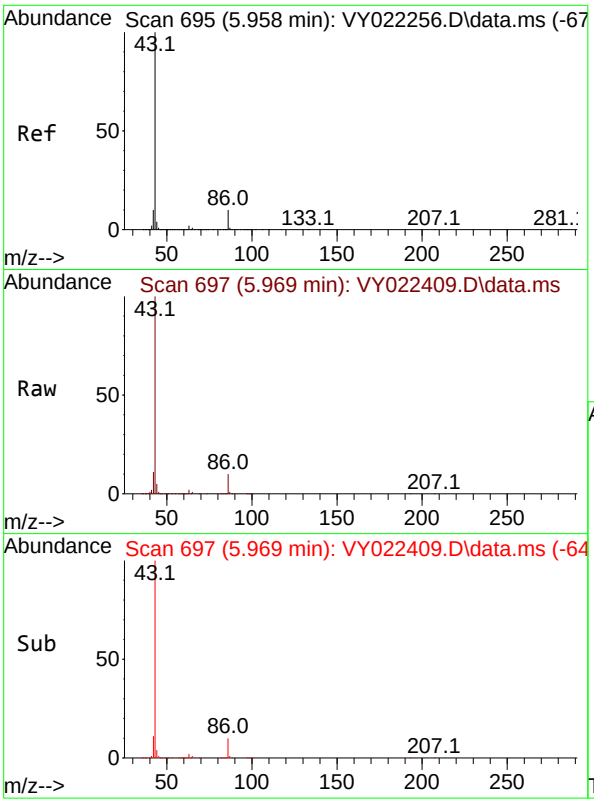


#22
Diisopropyl ether
Concen: 18.014 ug/l
RT: 6.024 min Scan# 706
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 45 Resp: 157311

Ion	Ratio	Lower	Upper
45	100		
43	64.9	48.2	72.2
87	27.8	21.4	32.0
59	12.3	9.0	13.4



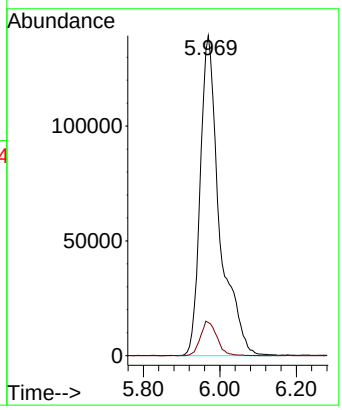


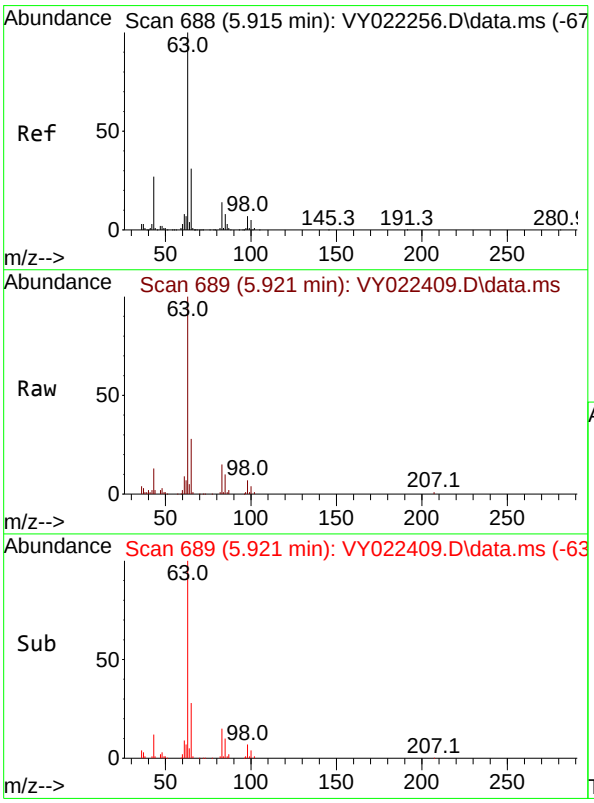
#23
Vinyl Acetate
Concen: 92.917 ug/l
RT: 5.969 min Scan# 6
Delta R.T. 0.012 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

Tgt Ion: 43 Resp: 490218

Ion	Ratio	Lower	Upper
43	100		
86	10.4	7.8	11.8

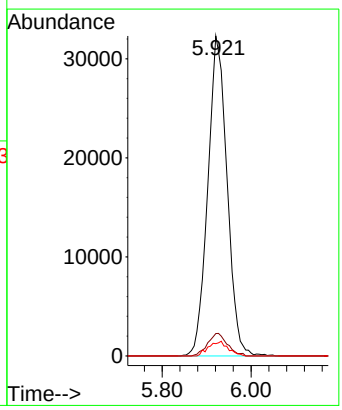


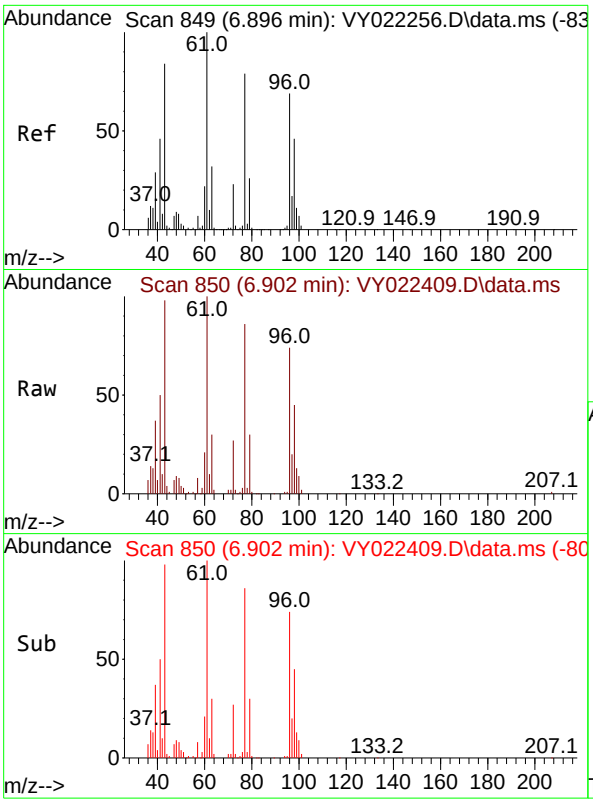


#24
1,1-Dichloroethane
Concen: 19.950 ug/l
RT: 5.921 min Scan# 689
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 63 Resp: 97335

Ion	Ratio	Lower	Upper
63	100		
98	7.0	3.5	10.5
100	3.9	2.4	7.2



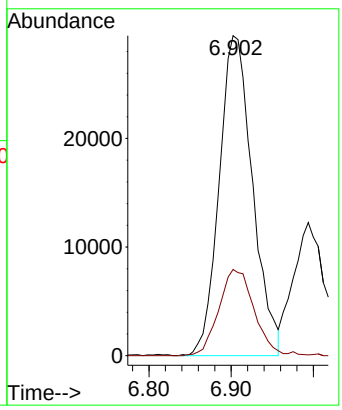


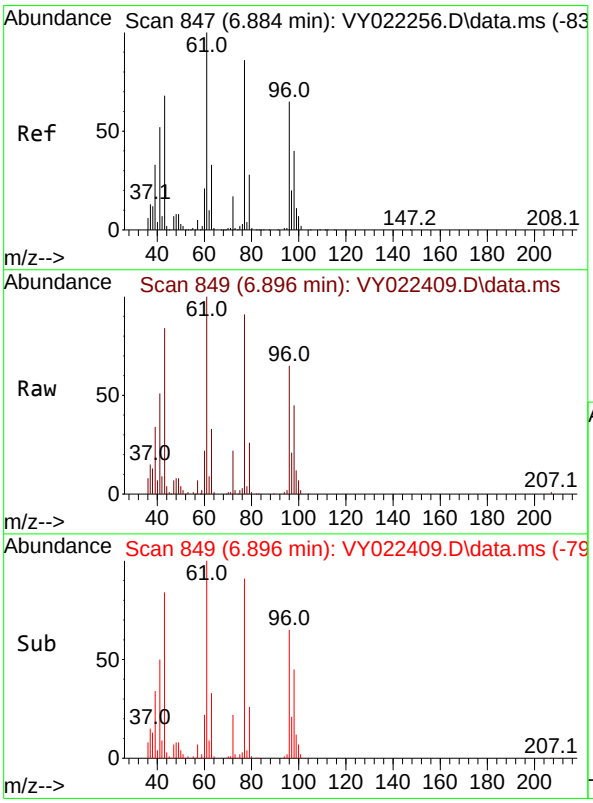
#25
2-Butanone
Concen: 110.000 ug/l
RT: 6.902 min Scan# 8
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

Tgt Ion: 43 Resp: 83136

Ion	Ratio	Lower	Upper
43	100		
72	27.0	22.1	33.1

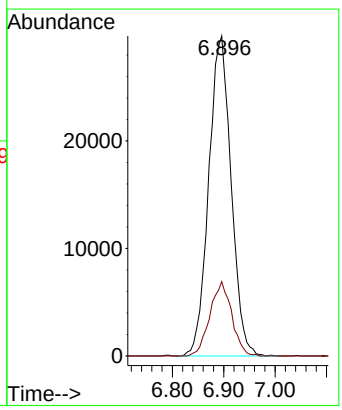


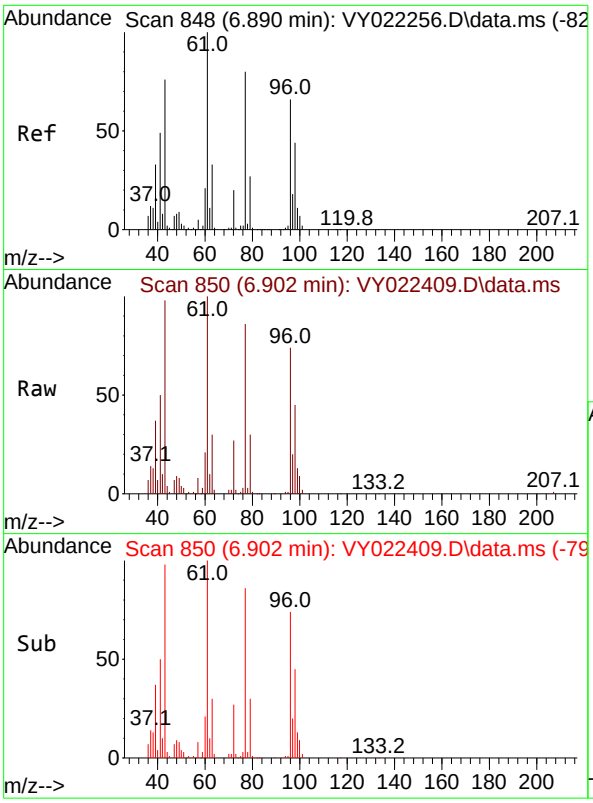


#26
2,2-Dichloropropane
Concen: 20.734 ug/l
RT: 6.896 min Scan# 849
Delta R.T. 0.012 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 77 Resp: 89975

Ion	Ratio	Lower	Upper
77	100		
97	22.6	11.2	33.5



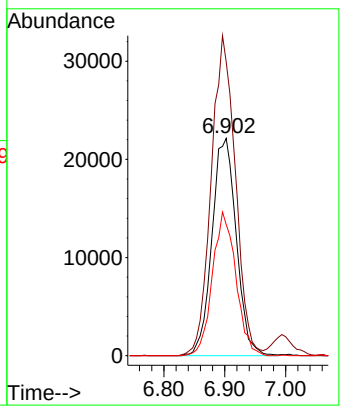


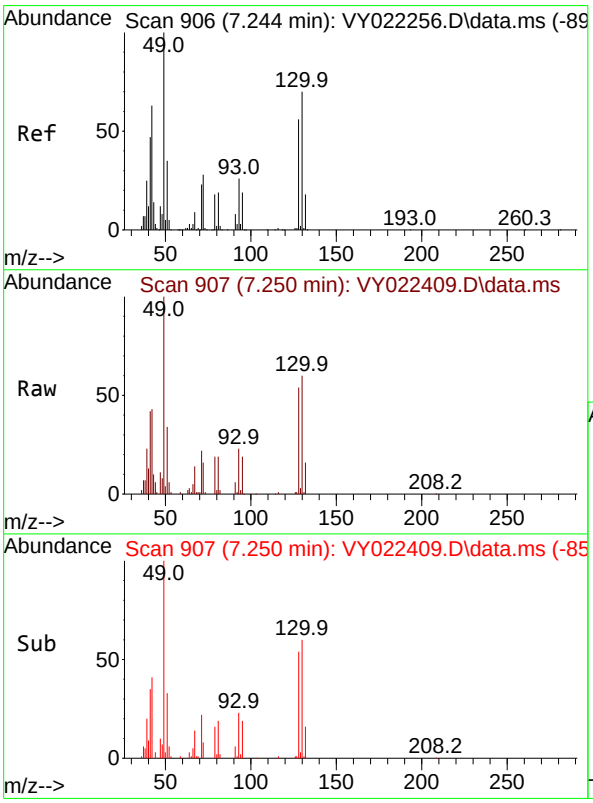
#27
cis-1,2-Dichloroethene
Concen: 20.454 ug/l
RT: 6.902 min Scan# 8
Delta R.T. 0.012 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

Tgt Ion: 96 Resp: 61445

Ion	Ratio	Lower	Upper
96	100		
61	146.3	0.0	302.6
98	63.7	0.0	128.8

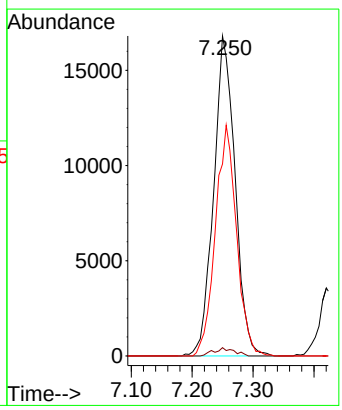


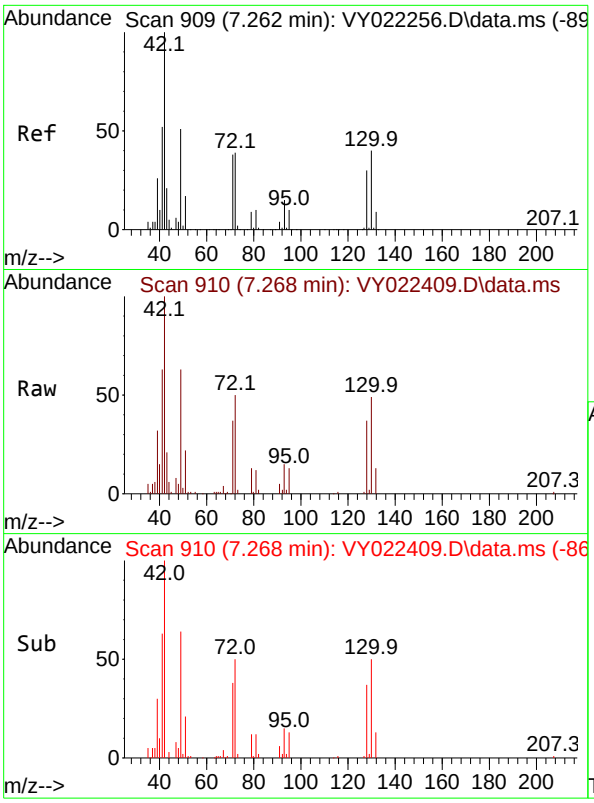


#28
Bromochloromethane
Concen: 19.736 ug/l
RT: 7.250 min Scan# 907
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 49 Resp: 41072

Ion	Ratio	Lower	Upper
49	100		
129	2.4	0.0	3.6
130	71.3	54.7	82.1



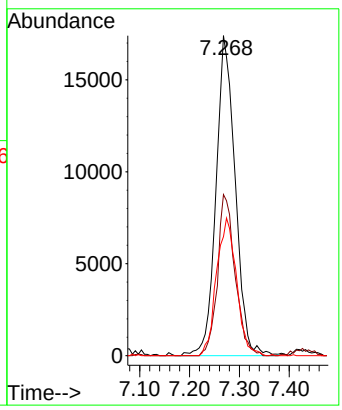


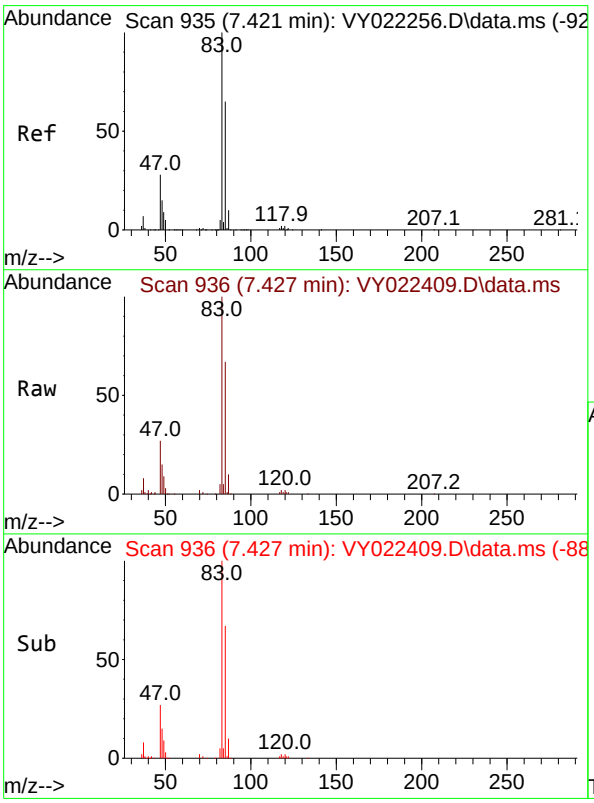
#29
Tetrahydrofuran
Concen: 95.797 ug/l
RT: 7.268 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

Tgt Ion: 42 Resp: 46580

Ion	Ratio	Lower	Upper
42	100		
72	46.0	33.8	50.6
71	44.7	31.5	47.3

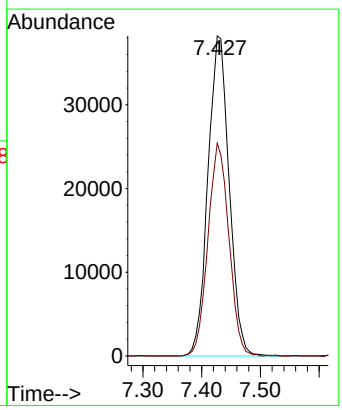


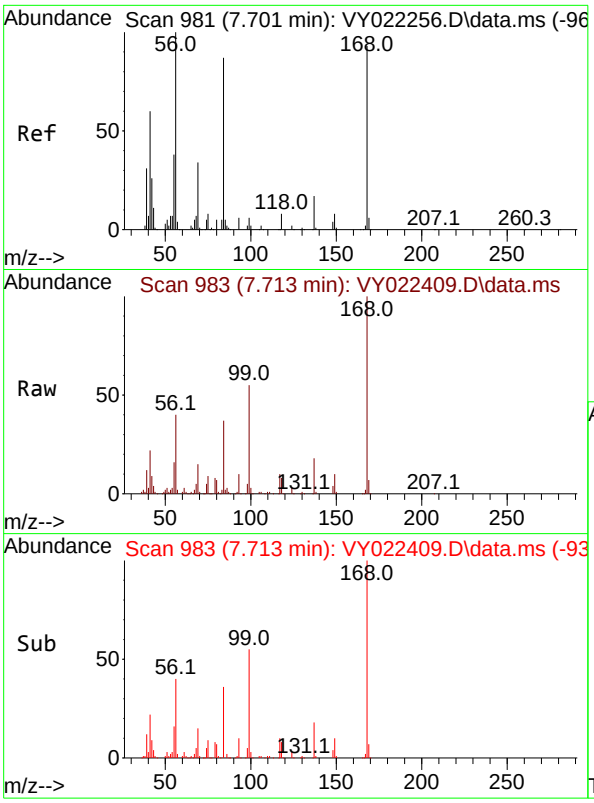


#30
Chloroform
Concen: 20.458 ug/l
RT: 7.427 min Scan# 936
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 83 Resp: 95738

Ion	Ratio	Lower	Upper
83	100		
85	66.5	51.8	77.8



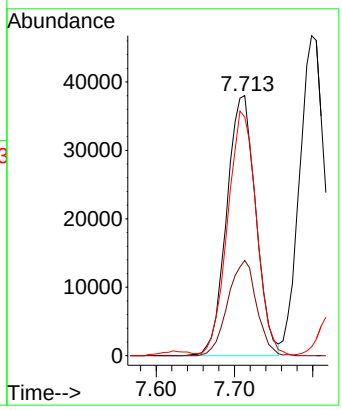


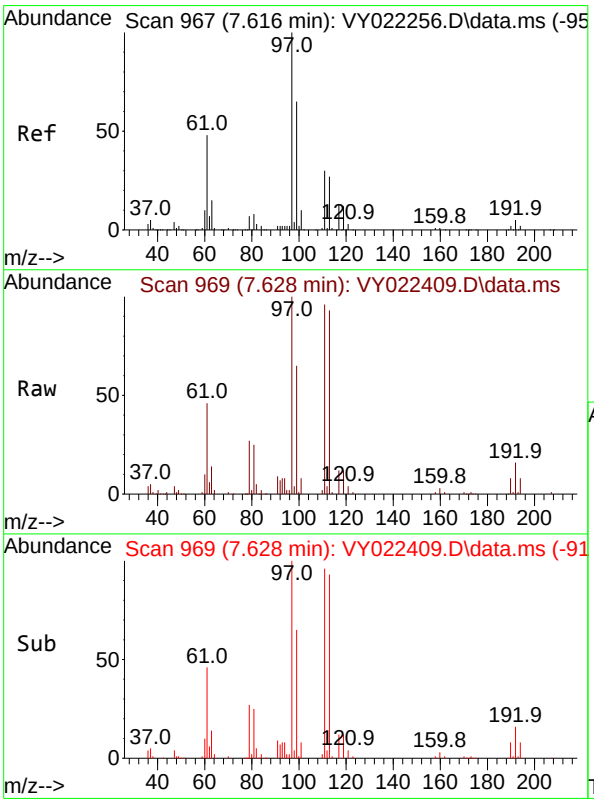
#31
Cyclohexane
Concen: 20.135 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.012 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

Tgt Ion: 56 Resp: 98151

Ion	Ratio	Lower	Upper
56	100		
69	36.6	27.4	41.2
84	90.2	70.0	105.0

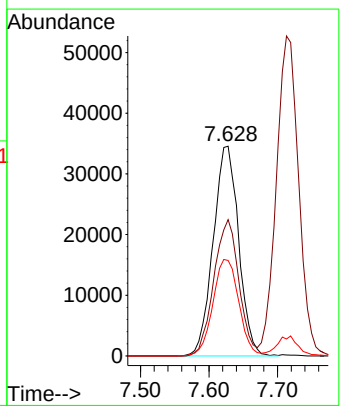


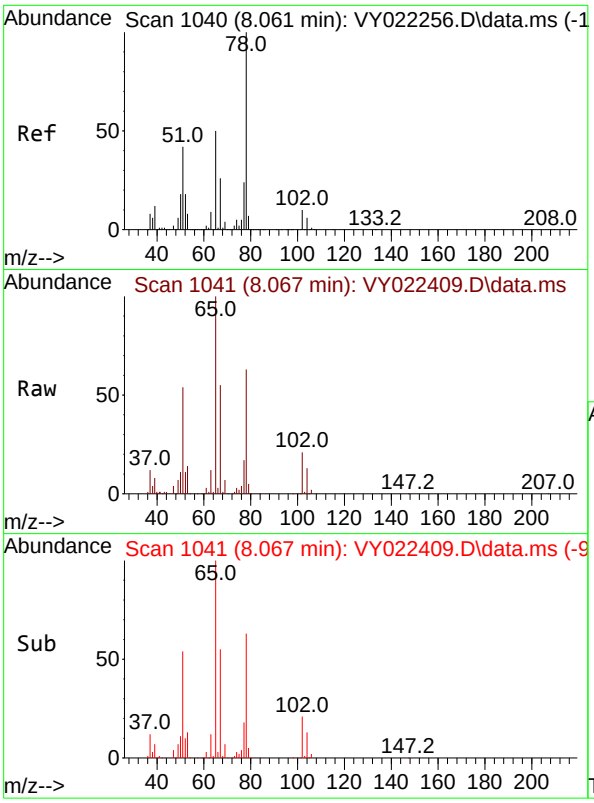


#32
1,1,1-Trichloroethane
Concen: 20.746 ug/l
RT: 7.628 min Scan# 969
Delta R.T. 0.012 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 97 Resp: 89072

Ion	Ratio	Lower	Upper
97	100		
99	64.1	51.4	77.0
61	46.7	38.1	57.1



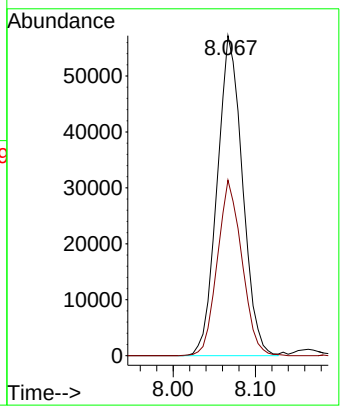


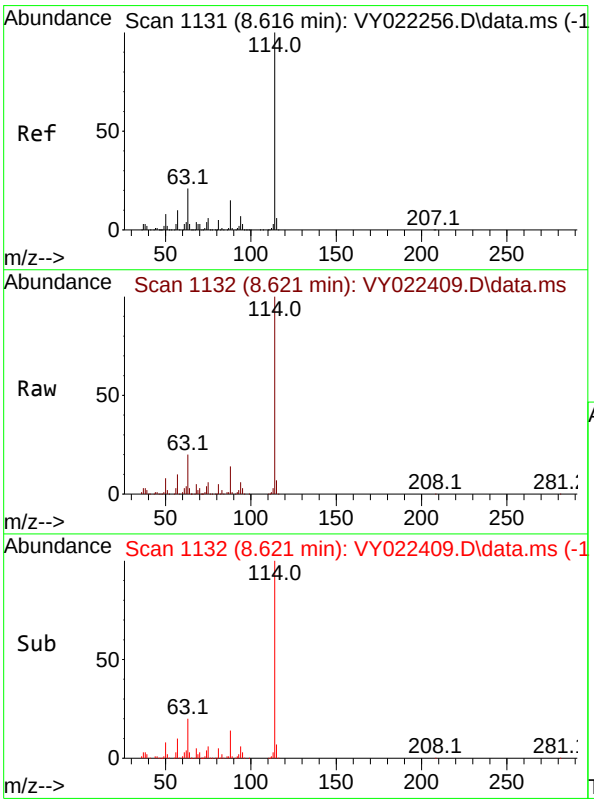
#33
1,2-Dichloroethane-d4
Concen: 50.718 ug/l
RT: 8.067 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

Tgt Ion: 65 Resp: 122214

Ion	Ratio	Lower	Upper
65	100		
67	53.3	0.0	104.6

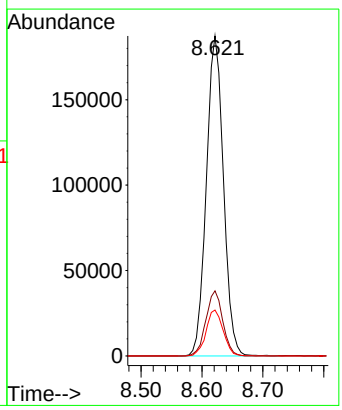


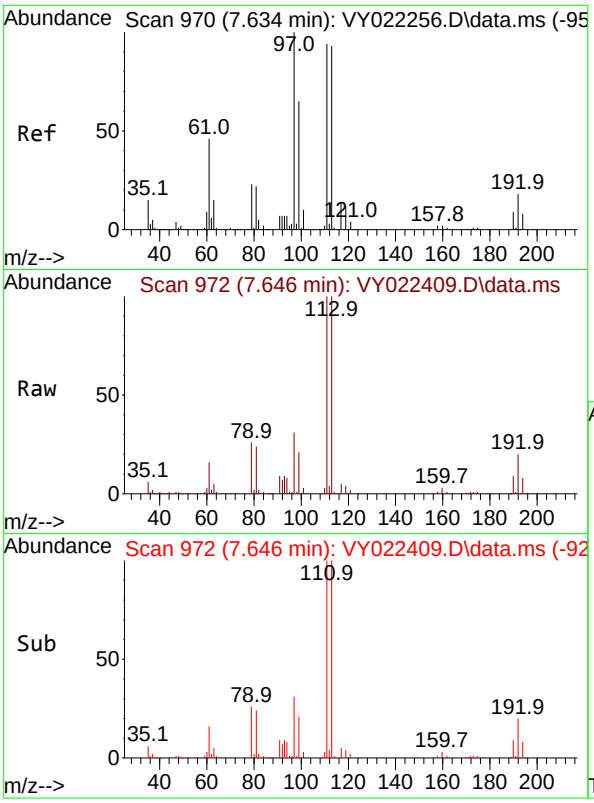


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.621 min Scan# 1132
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion:114 Resp: 365163

Ion	Ratio	Lower	Upper
114	100		
63	20.4	0.0	41.0
88	14.4	0.0	29.4



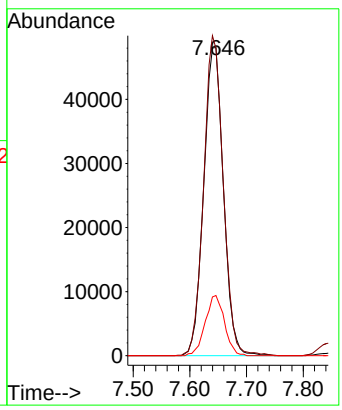


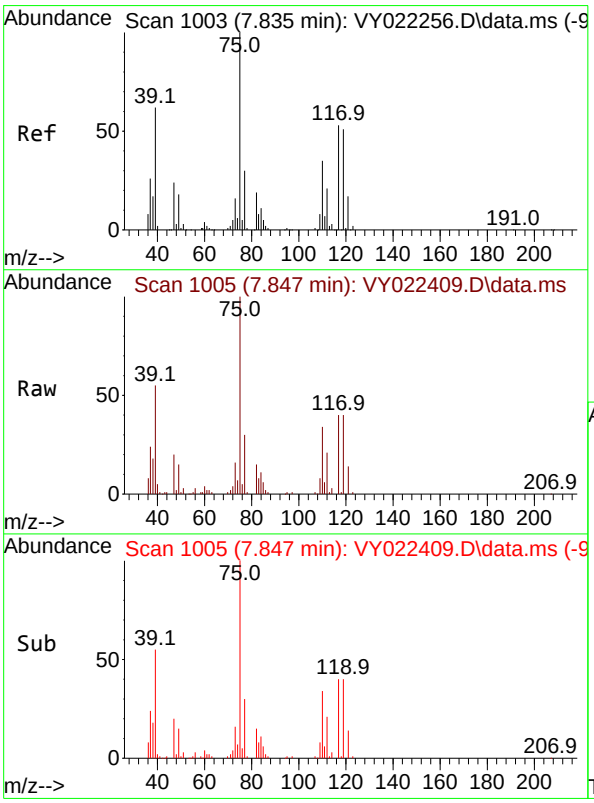
#35
Dibromofluoromethane
Concen: 53.556 ug/l
RT: 7.646 min Scan# 9
Delta R.T. 0.012 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

Tgt Ion:113 Resp: 116726

Ion	Ratio	Lower	Upper
113	100		
111	102.4	82.6	123.8
192	19.0	15.2	22.8

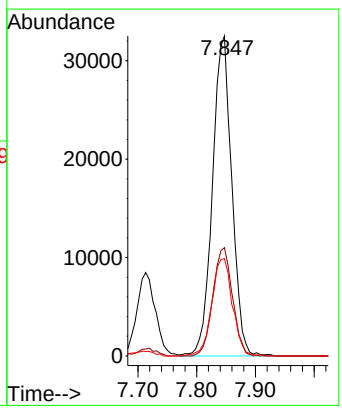


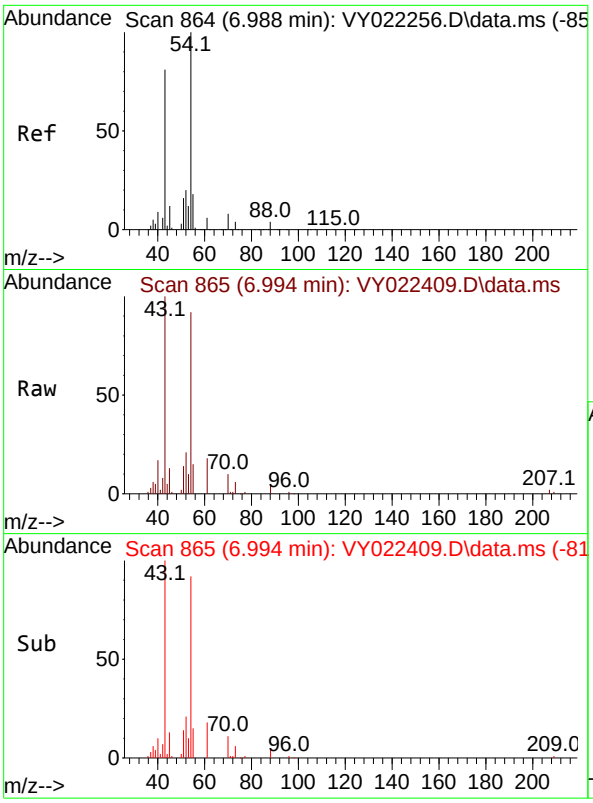


#36
1,1-Dichloropropene
Concen: 20.729 ug/l
RT: 7.847 min Scan# 1005
Delta R.T. 0.012 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 75 Resp: 74413

Ion	Ratio	Lower	Upper
75	100		
110	34.2	16.6	49.8
77	32.4	24.6	37.0



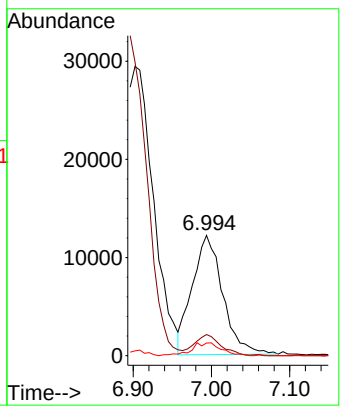


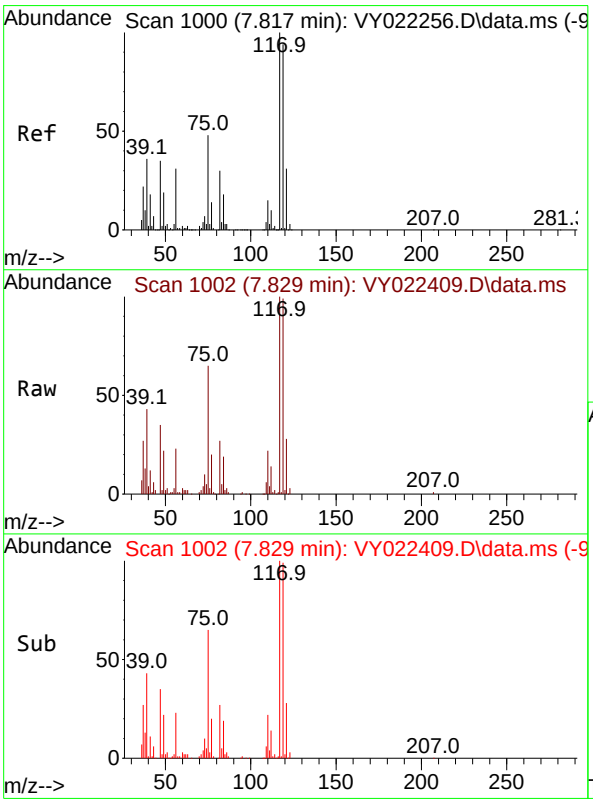
#37
Ethyl Acetate
Concen: 19.073 ug/l
RT: 6.994 min Scan# 8
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

Tgt Ion: 43 Resp: 32944

Ion	Ratio	Lower	Upper
43	100		
61	14.5	10.2	15.2
70	10.5	7.6	11.4

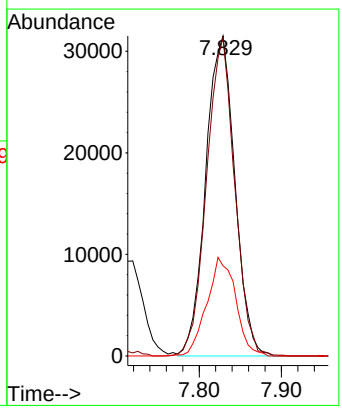


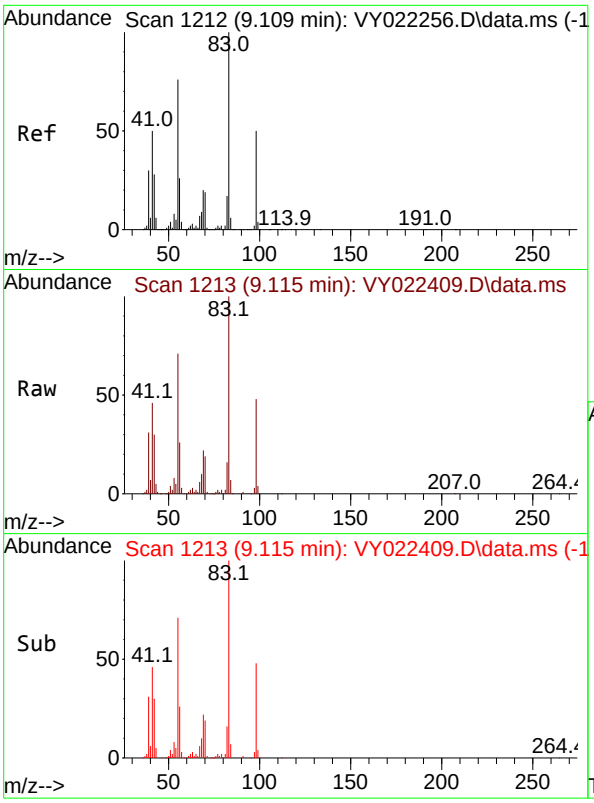


#38
Carbon Tetrachloride
Concen: 20.880 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. 0.012 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion:117 Resp: 77588

Ion	Ratio	Lower	Upper
117	100		
119	99.2	75.3	112.9
121	28.2	24.7	37.1



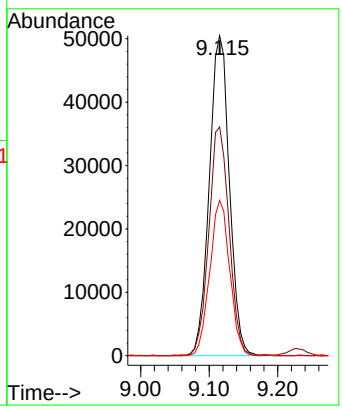


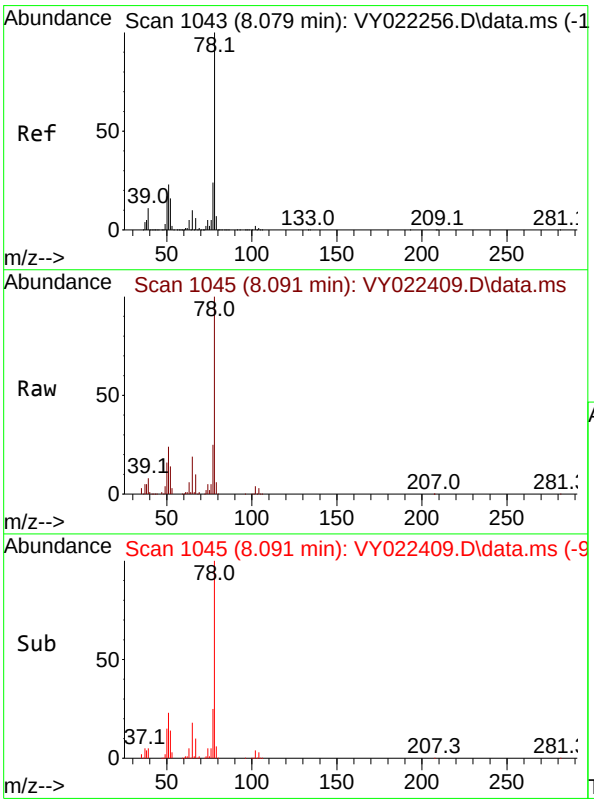
#39
Methylcyclohexane
Concen: 21.353 ug/l
RT: 9.115 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

Tgt Ion: 83 Resp: 102984

Ion	Ratio	Lower	Upper
83	100		
55	71.3	60.6	90.8
98	48.5	40.0	60.0

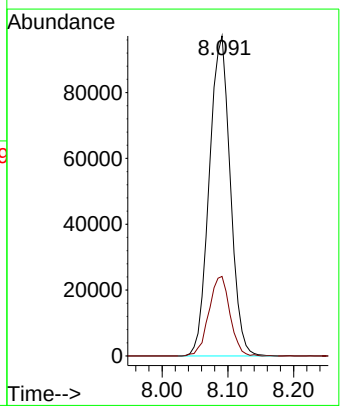


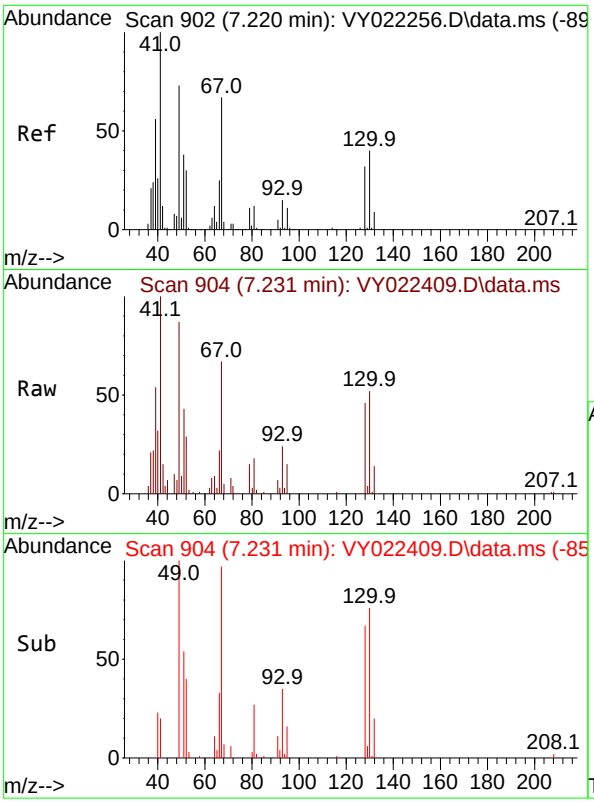


#40
Benzene
Concen: 20.291 ug/l
RT: 8.091 min Scan# 1045
Delta R.T. 0.012 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 78 Resp: 215939

Ion	Ratio	Lower	Upper
78	100		
77	24.8	18.9	28.3



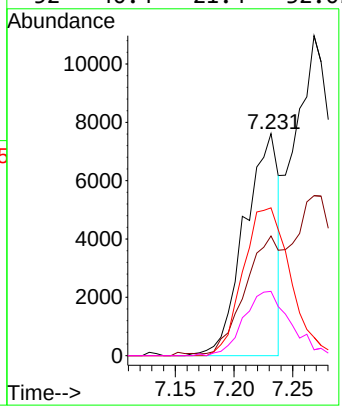


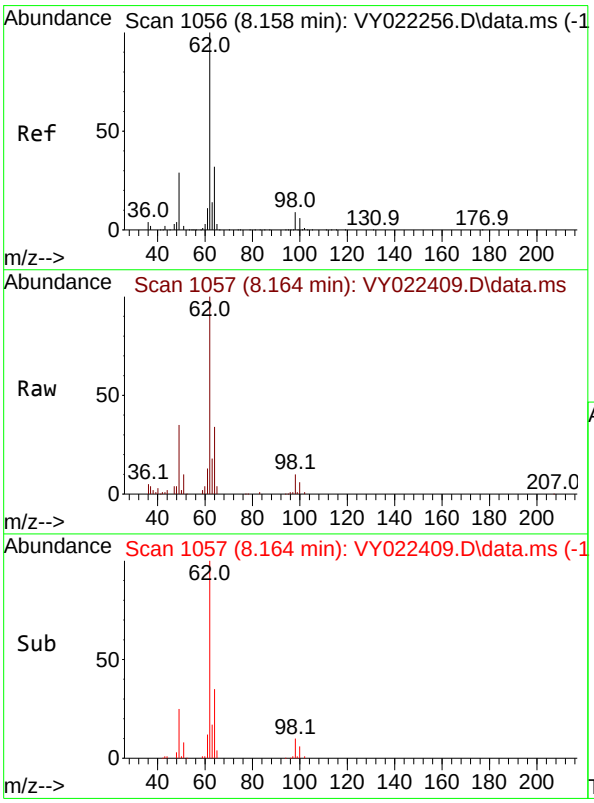
#41
Methacrylonitrile
Concen: 13.331 ug/l
RT: 7.231 min Scan# 9
Delta R.T. 0.012 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

Tgt Ion: 41 Resp: 15274

Ion	Ratio	Lower	Upper
41	100		
39	52.9	39.1	58.7
67	93.8	47.1	70.7#
52	40.4	21.4	32.0#

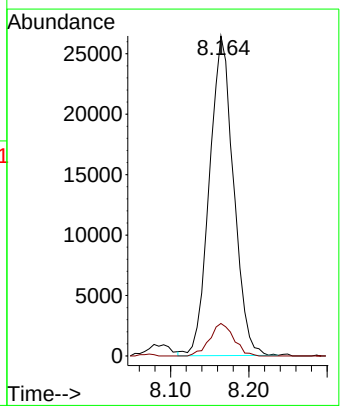


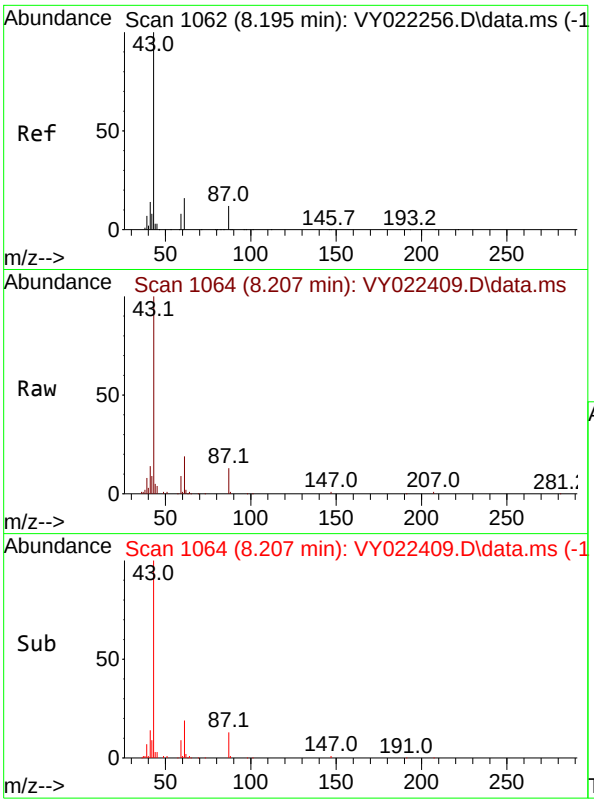


#42
1,2-Dichloroethane
Concen: 19.649 ug/l
RT: 8.164 min Scan# 1057
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 62 Resp: 56548

Ion	Ratio	Lower	Upper
62	100		
98	10.2	0.0	18.4



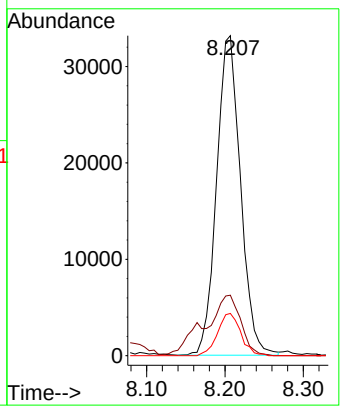


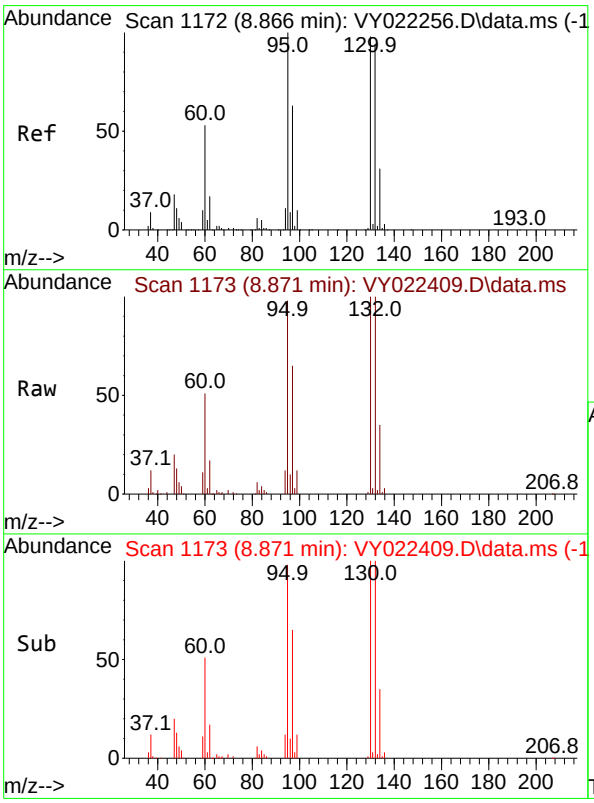
#43
Isopropyl Acetate
Concen: 18.681 ug/l
RT: 8.207 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

Tgt Ion: 43 Resp: 70370

Ion	Ratio	Lower	Upper
43	100		
61	20.2	15.1	22.7
87	12.8	9.7	14.5

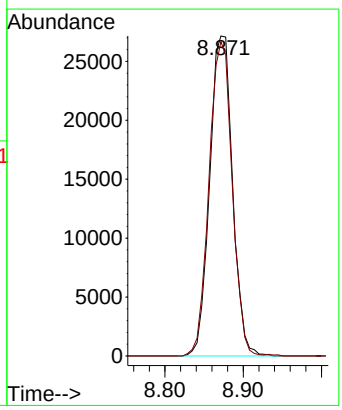


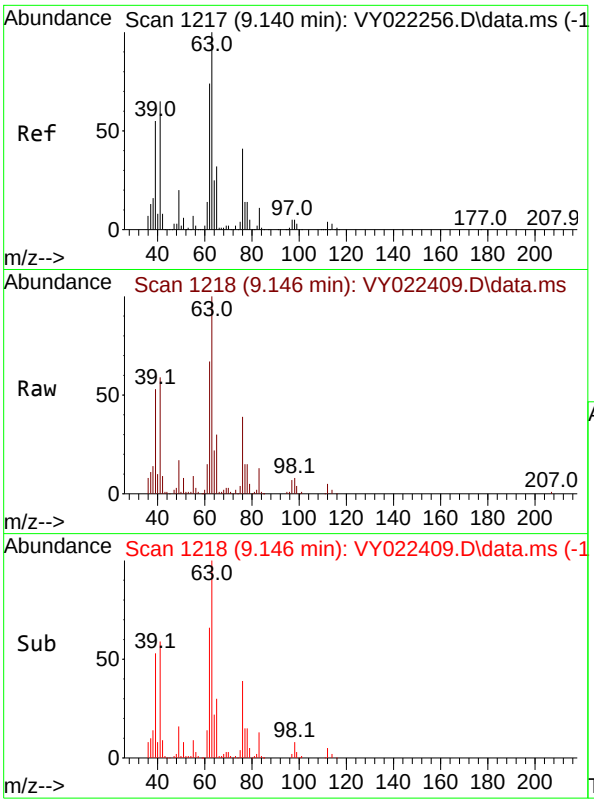


#44
Trichloroethene
Concen: 20.806 ug/l
RT: 8.871 min Scan# 1173
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion:130 Resp: 55056

Ion	Ratio	Lower	Upper
130	100		
95	98.2	0.0	204.8



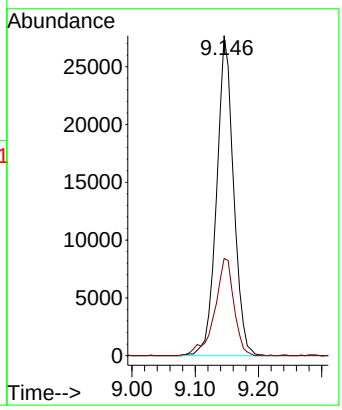


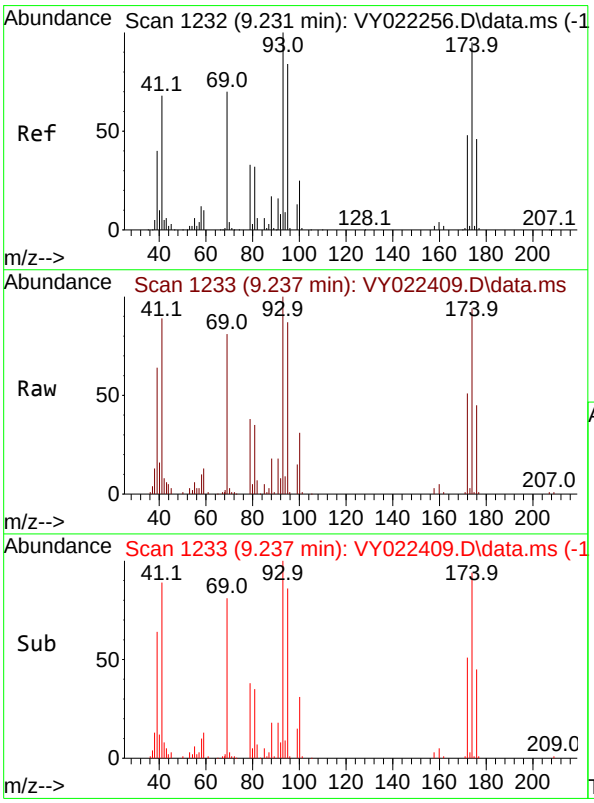
#45
1,2-Dichloropropane
Concen: 19.991 ug/l
RT: 9.146 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

Tgt Ion: 63 Resp: 51291

Ion	Ratio	Lower	Upper
63	100		
65	30.4	25.7	38.5

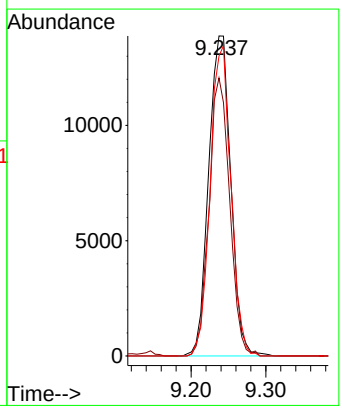


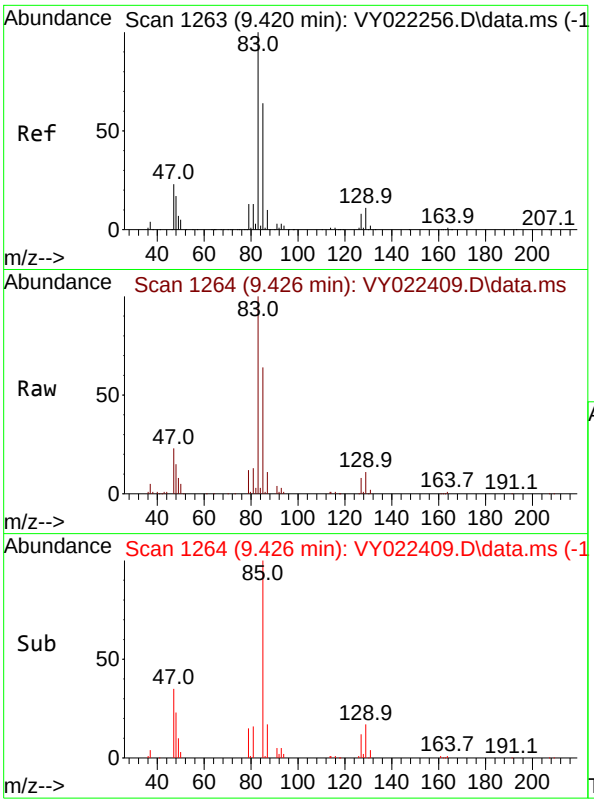


#46
Dibromomethane
Concen: 20.659 ug/l
RT: 9.237 min Scan# 1233
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 93 Resp: 28589

Ion	Ratio	Lower	Upper
93	100		
95	81.1	65.2	97.8
174	90.9	74.3	111.5



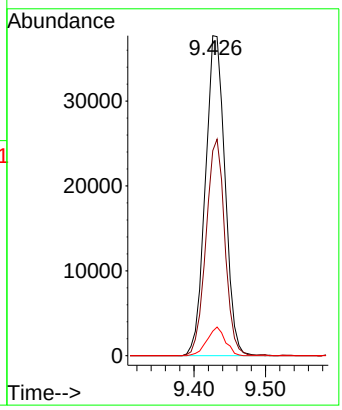


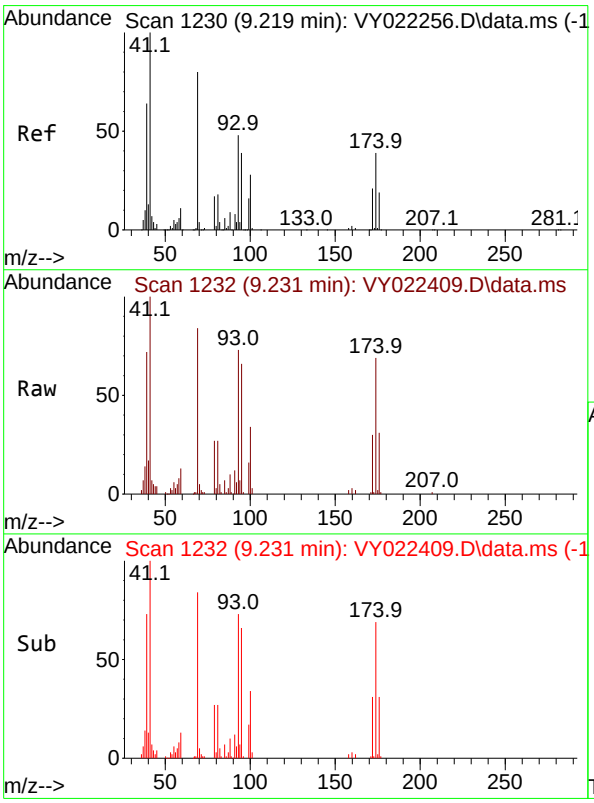
#47
Bromodichloromethane
Concen: 19.978 ug/l
RT: 9.426 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

Tgt Ion: 83 Resp: 71724

Ion	Ratio	Lower	Upper
83	100		
85	64.0	51.1	76.7
127	7.7	6.6	10.0

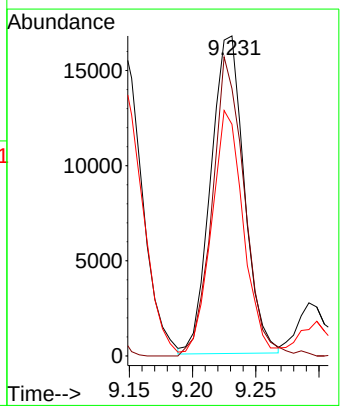


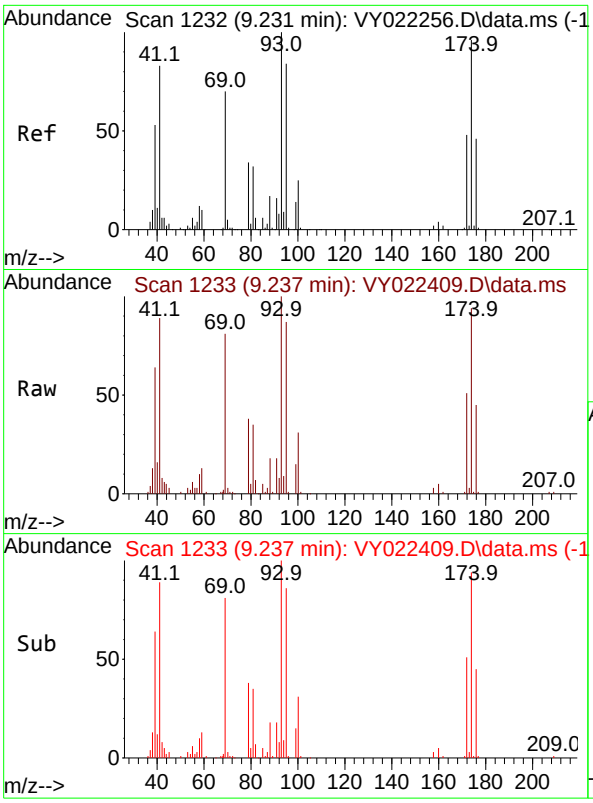


#48
Methyl methacrylate
Concen: 17.434 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.012 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 41 Resp: 30712

Ion	Ratio	Lower	Upper
41	100		
69	90.6	63.5	95.3
39	72.0	50.8	76.2



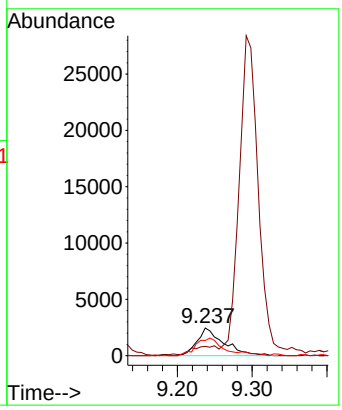


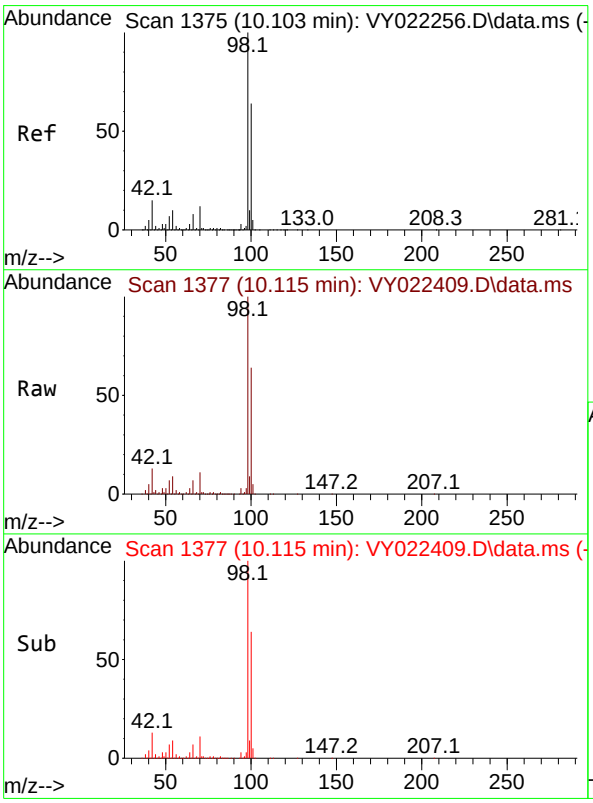
#49
1,4-Dioxane
Concen: 389.226 ug/l
RT: 9.237 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

Tgt Ion: 88 Resp: 6085

Ion	Ratio	Lower	Upper
88	100		
43	35.6	28.5	42.7
58	68.0	61.4	92.2

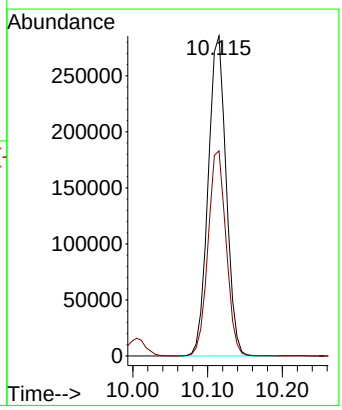


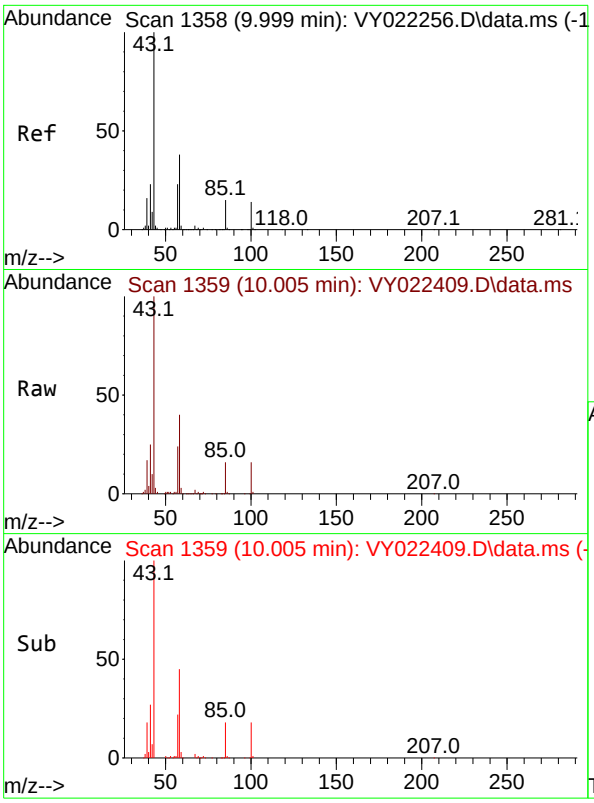


#50
Toluene-d8
Concen: 53.519 ug/l
RT: 10.115 min Scan# 1377
Delta R.T. 0.012 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 98 Resp: 477724

Ion	Ratio	Lower	Upper
98	100		
100	64.5	51.8	77.8



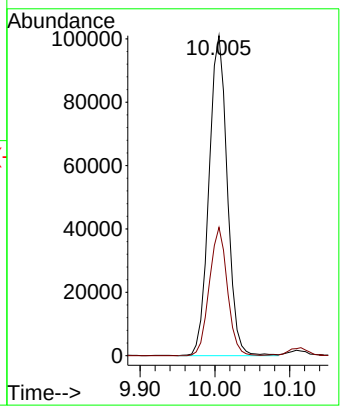


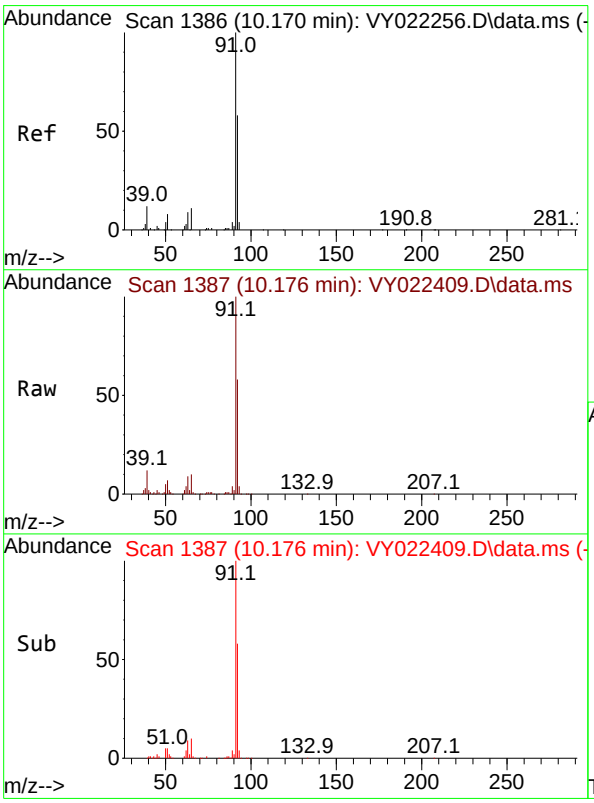
#51
4-Methyl-2-Pentanone
Concen: 92.790 ug/l
RT: 10.005 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

Tgt Ion: 43 Resp: 171509

Ion	Ratio	Lower	Upper
43	100		
58	39.5	29.4	44.2

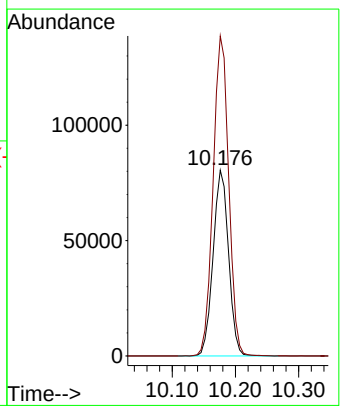


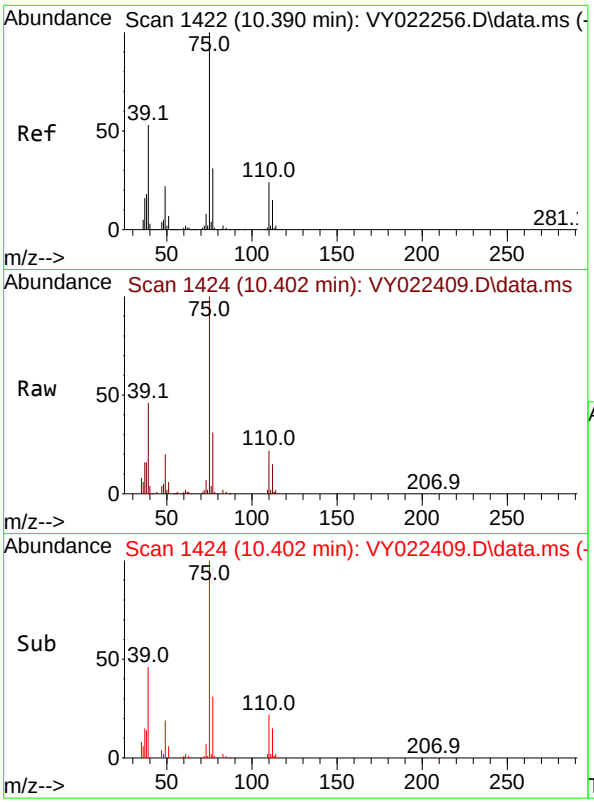


#52
Toluene
Concen: 20.220 ug/l
RT: 10.176 min Scan# 1387
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 92 Resp: 136262

Ion	Ratio	Lower	Upper
92	100		
91	173.6	139.1	208.7



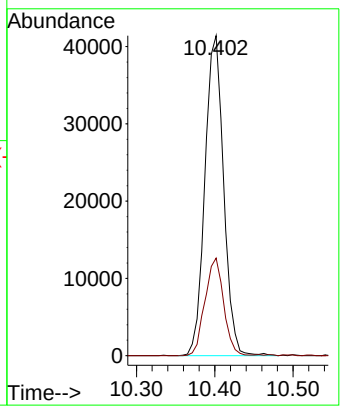


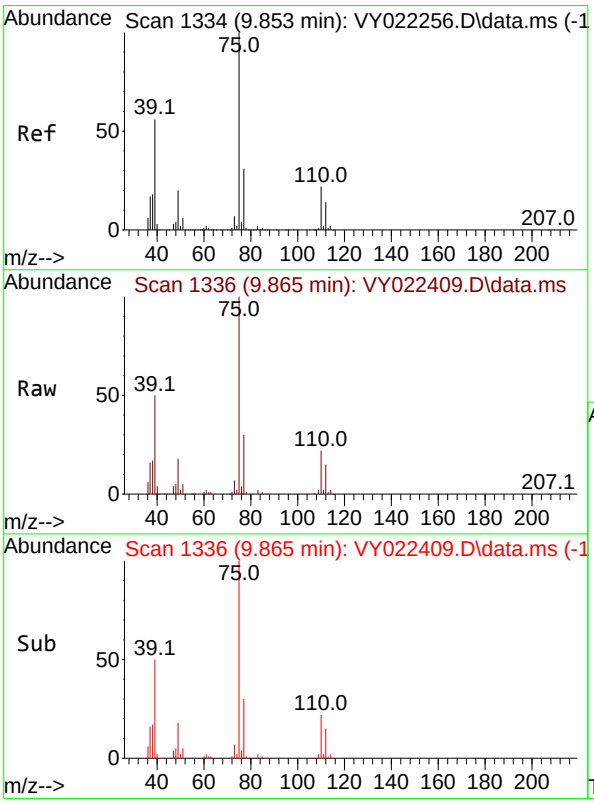
#53
t-1,3-Dichloropropene
Concen: 19.603 ug/l
RT: 10.402 min Scan# 14
Delta R.T. 0.012 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

Tgt Ion: 75 Resp: 68682

Ion	Ratio	Lower	Upper
75	100		
77	30.5	25.0	37.6

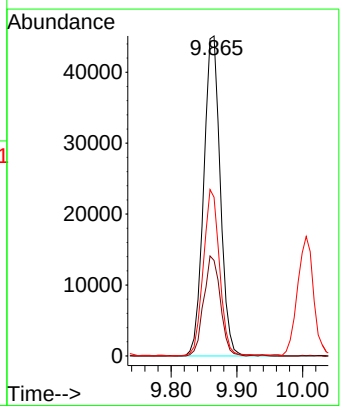


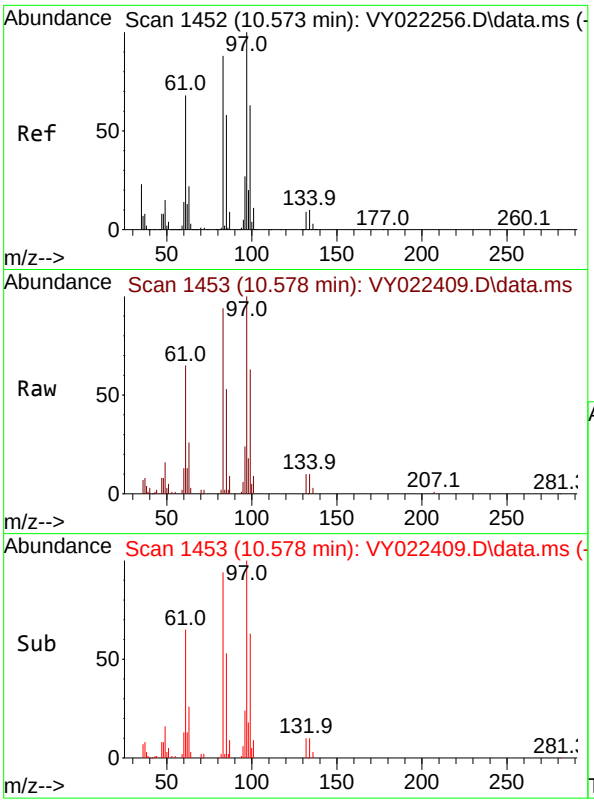


#54
cis-1,3-Dichloropropene
Concen: 19.702 ug/l
RT: 9.865 min Scan# 1336
Delta R.T. 0.012 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 75 Resp: 79085

Ion	Ratio	Lower	Upper
75	100		
77	29.9	25.1	37.7
39	49.5	44.5	66.7



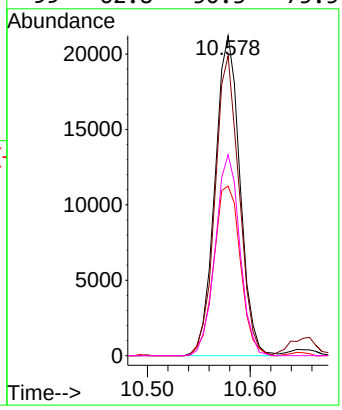


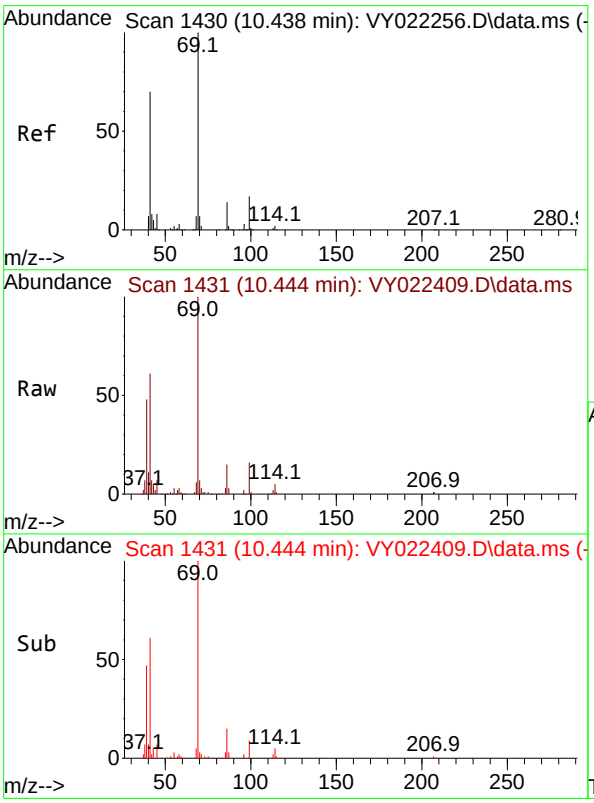
#55
1,1,2-Trichloroethane
Concen: 20.168 ug/l
RT: 10.578 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

Tgt Ion: 97 Resp: 35739

Ion	Ratio	Lower	Upper
97	100		
83	93.7	70.3	105.5
85	53.0	46.2	69.4
99	62.8	50.3	75.5

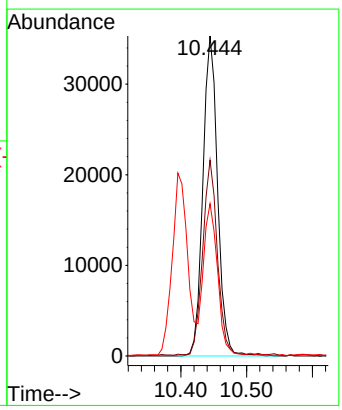


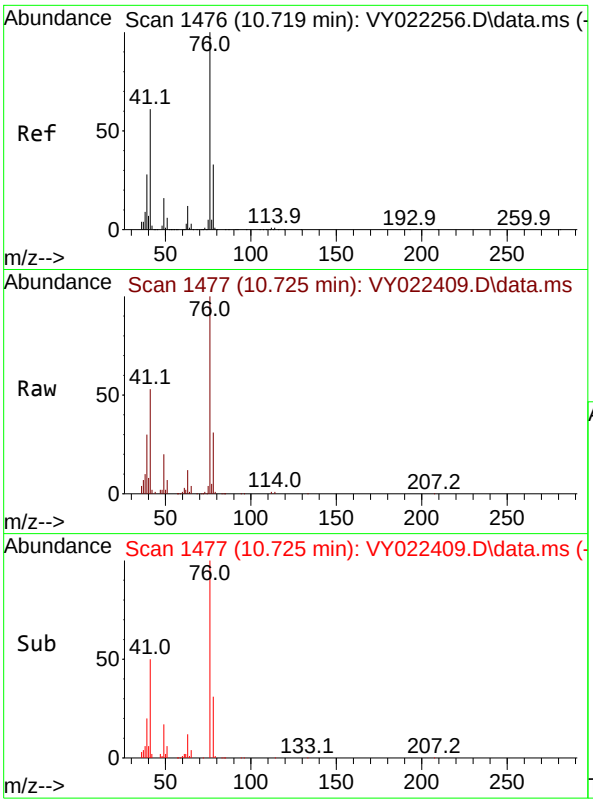


#56
Ethyl methacrylate
Concen: 19.889 ug/l
RT: 10.444 min Scan# 1431
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 69 Resp: 54901

Ion	Ratio	Lower	Upper
69	100		
41	61.0	56.5	84.7
39	44.3	37.1	55.7



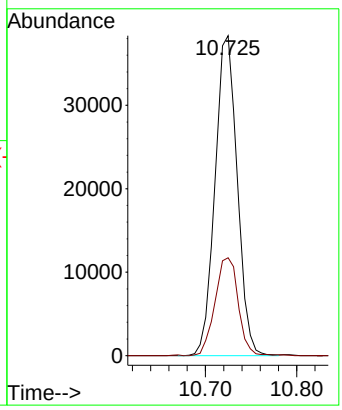


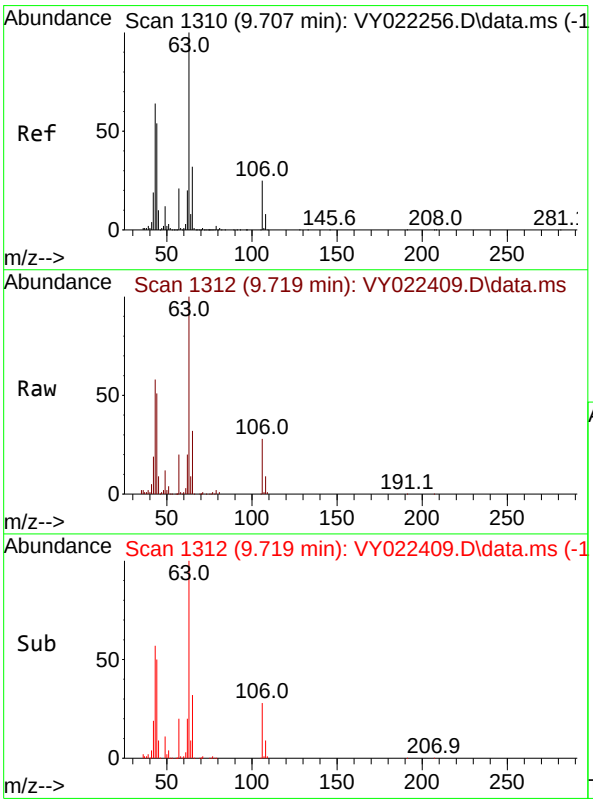
#57
1,3-Dichloropropane
Concen: 20.578 ug/l
RT: 10.725 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

Tgt Ion: 76 Resp: 64791

Ion	Ratio	Lower	Upper
76	100		
78	32.1	25.8	38.8

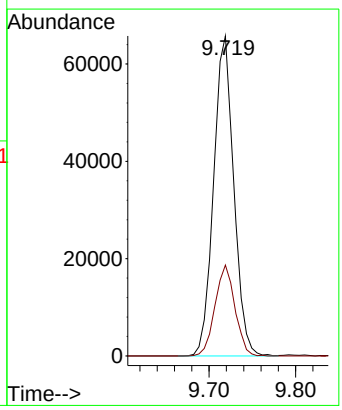


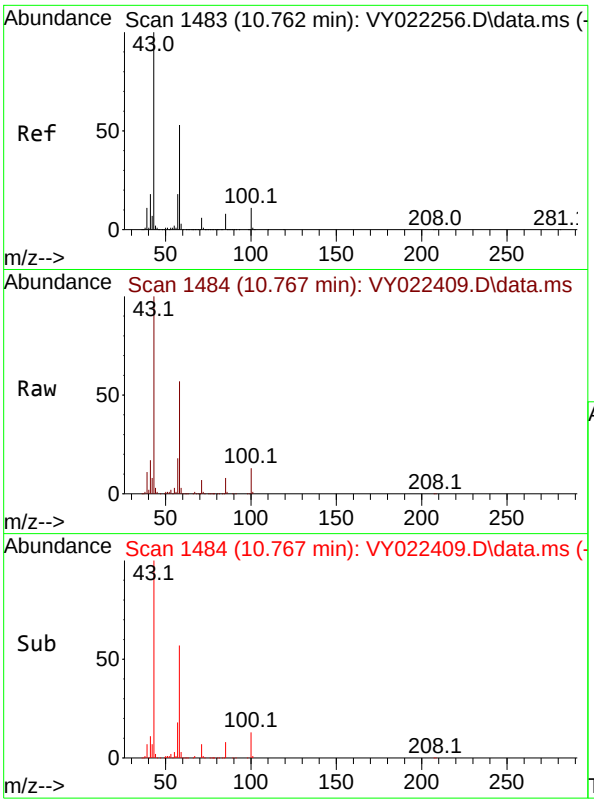


#58
2-Chloroethyl Vinyl ether
Concen: 85.834 ug/l
RT: 9.719 min Scan# 1312
Delta R.T. 0.012 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 63 Resp: 106348

Ion	Ratio	Lower	Upper
63	100		
106	28.0	21.0	31.4



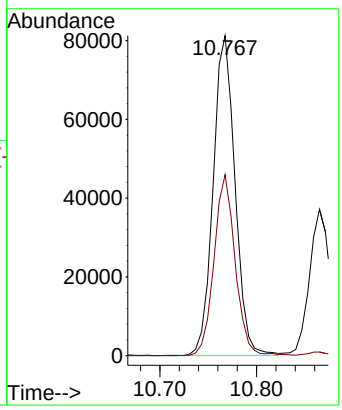


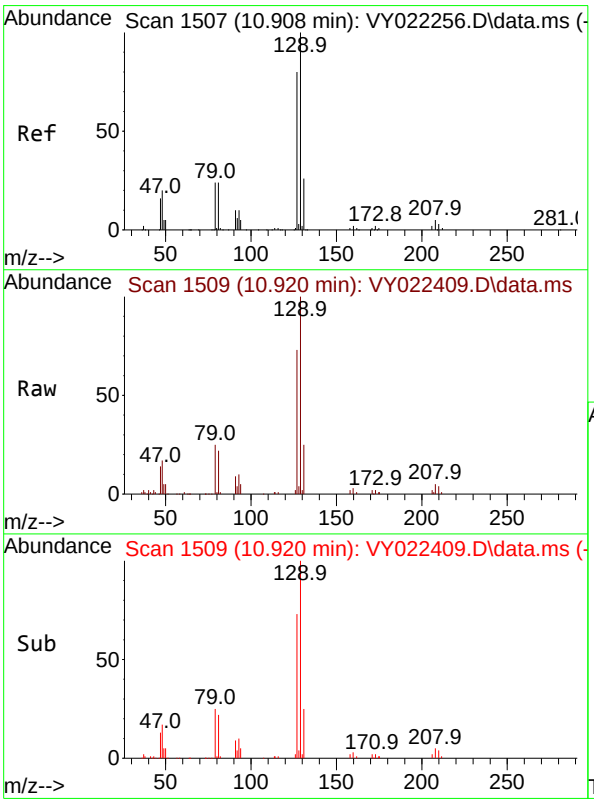
#59
2-Hexanone
Concen: 102.550 ug/l
RT: 10.767 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

Tgt Ion: 43 Resp: 127089

Ion	Ratio	Lower	Upper
43	100		
58	54.9	26.1	78.3

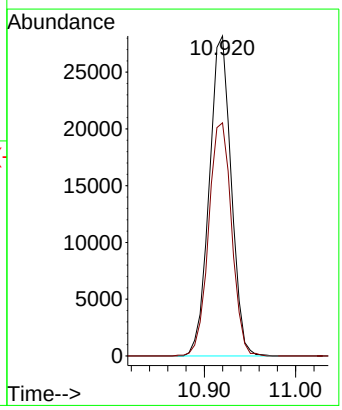


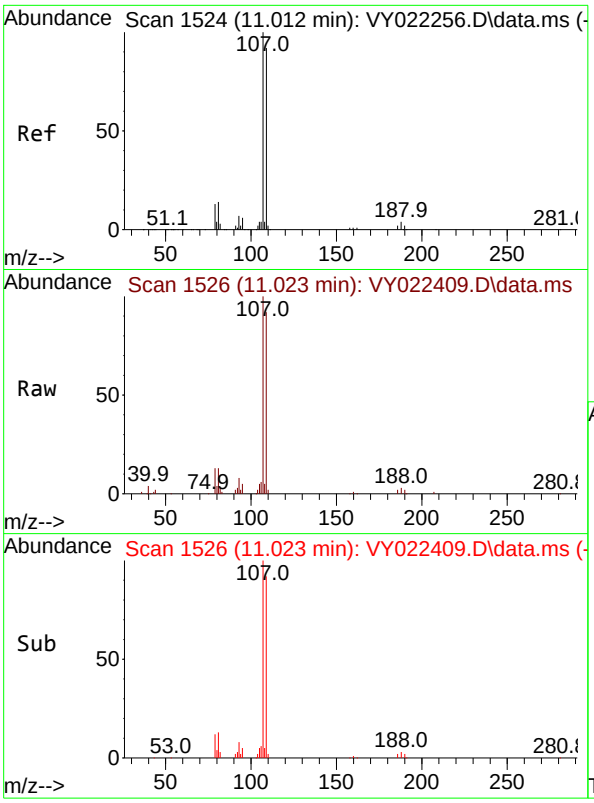


#60
Dibromochloromethane
Concen: 20.398 ug/l
RT: 10.920 min Scan# 1509
Delta R.T. 0.012 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion:129 Resp: 46918

Ion	Ratio	Lower	Upper
129	100		
127	76.4	38.6	115.7



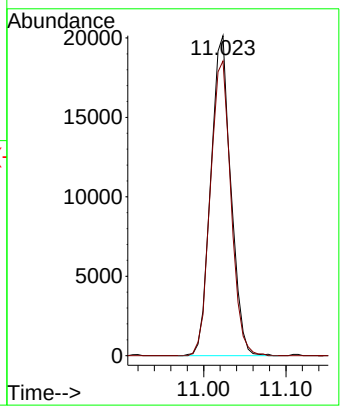


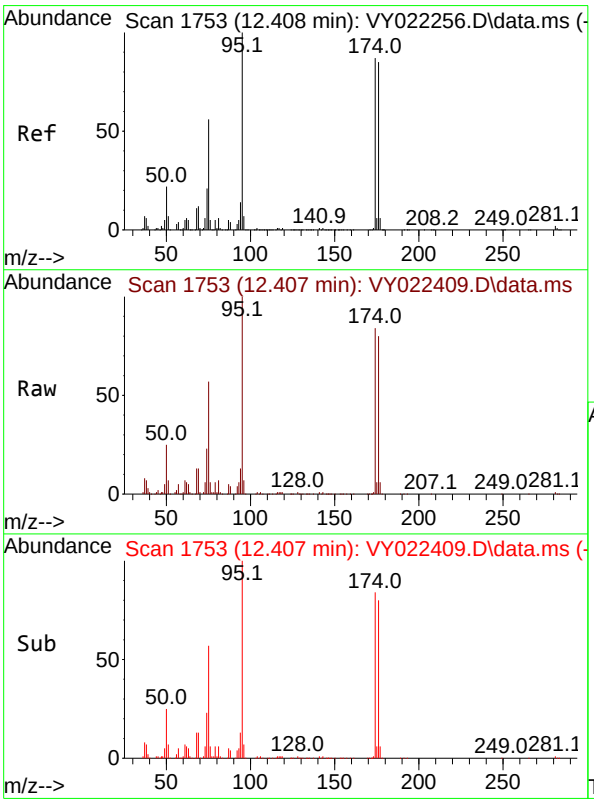
#61
1,2-Dibromoethane
Concen: 20.674 ug/l
RT: 11.023 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

Tgt Ion:107 Resp: 34146

Ion	Ratio	Lower	Upper
107	100		
109	94.4	74.6	111.8

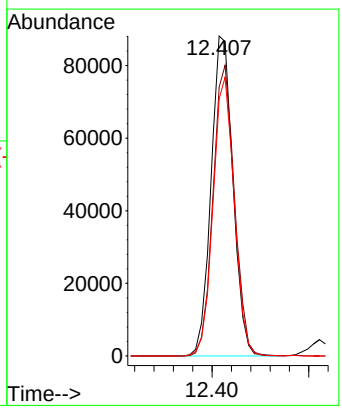


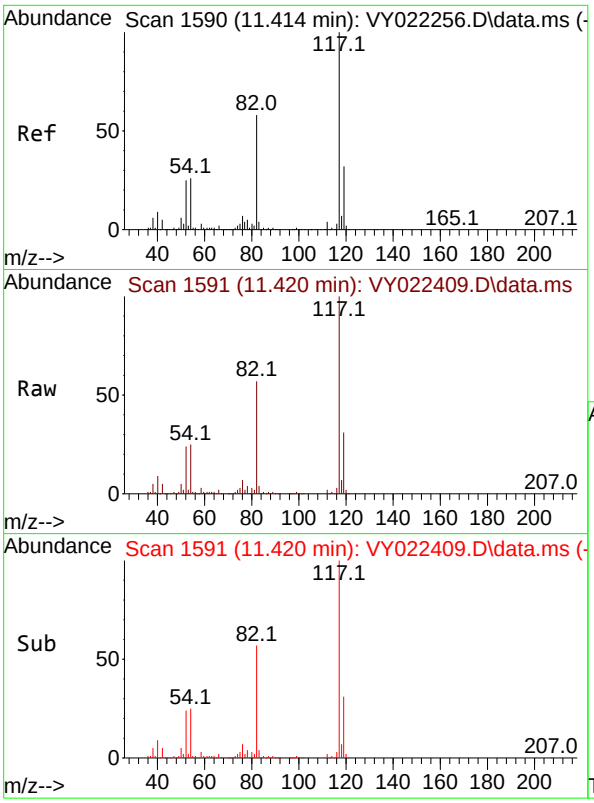


#62
4-Bromofluorobenzene
Concen: 48.757 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. -0.000 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 95 Resp: 137951

Ion	Ratio	Lower	Upper
95	100		
174	89.3	0.0	166.8
176	84.6	0.0	160.8



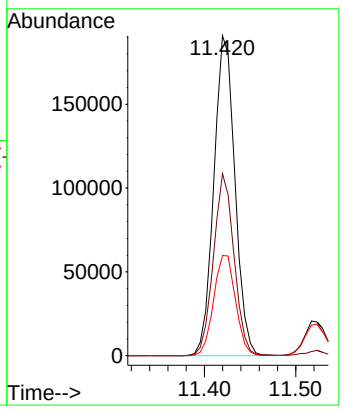


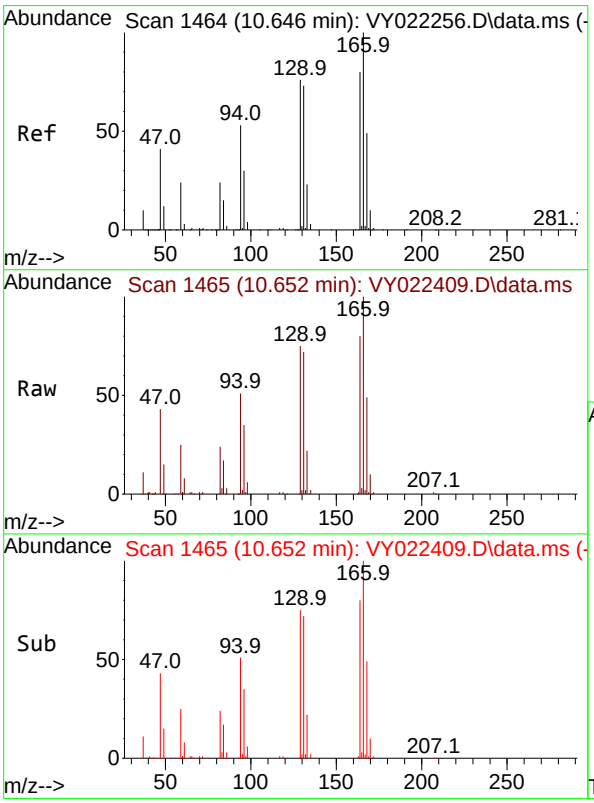
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

Tgt Ion:117 Resp: 306453

Ion	Ratio	Lower	Upper
117	100		
82	56.9	46.6	70.0
119	31.3	25.8	38.6

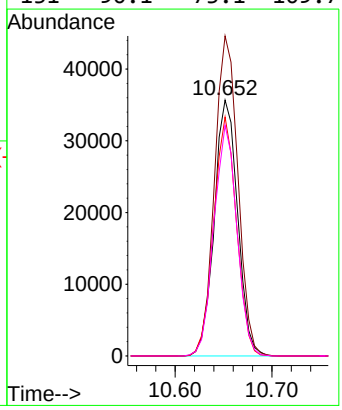


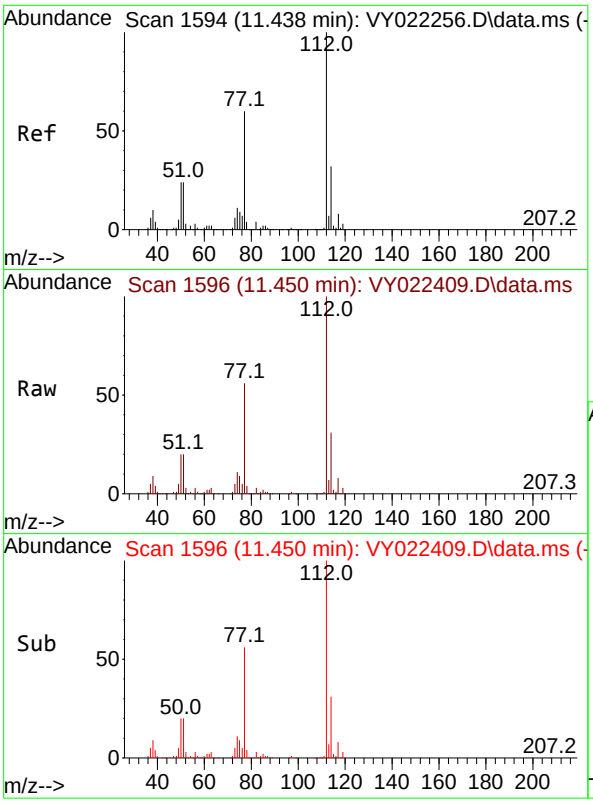


#64
Tetrachloroethene
Concen: 21.065 ug/l
RT: 10.652 min Scan# 1465
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion:164 Resp: 59668

Ion	Ratio	Lower	Upper
164	100		
166	125.1	100.4	150.6
129	93.4	76.4	114.6
131	90.1	73.1	109.7



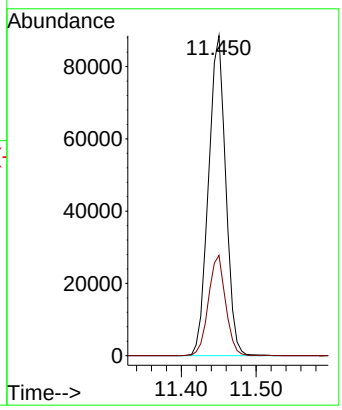


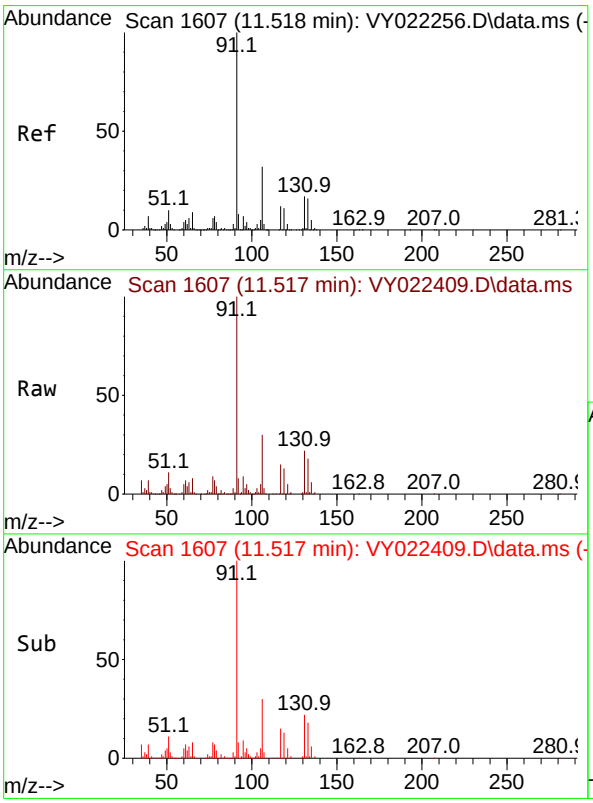
#65
Chlorobenzene
Concen: 20.547 ug/l
RT: 11.450 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

Tgt Ion:112 Resp: 142059

Ion	Ratio	Lower	Upper
112	100		
114	31.4	25.8	38.6

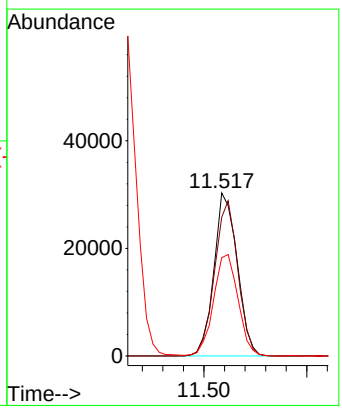


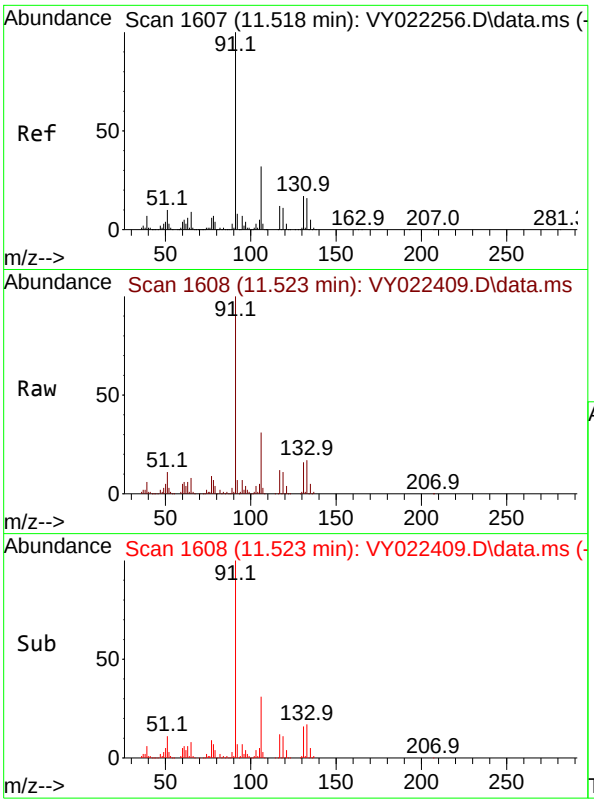


#66
1,1,1,2-Tetrachloroethane
Concen: 20.078 ug/l
RT: 11.517 min Scan# 1607
Delta R.T. -0.000 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion:131 Resp: 47723

Ion	Ratio	Lower	Upper
131	100		
133	94.9	47.3	141.9
119	65.4	33.1	99.2



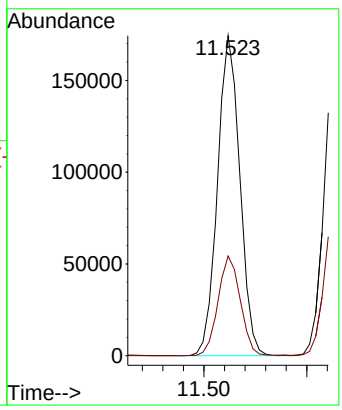


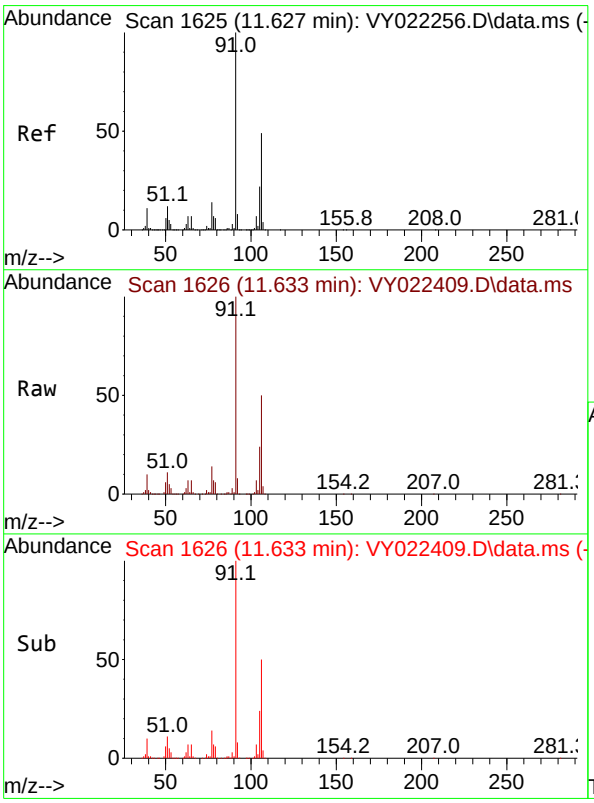
#67
Ethyl Benzene
Concen: 20.286 ug/l
RT: 11.523 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

Tgt Ion: 91 Resp: 262665

Ion	Ratio	Lower	Upper
91	100		
106	31.2	25.4	38.0

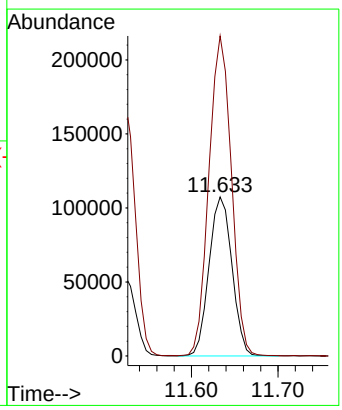


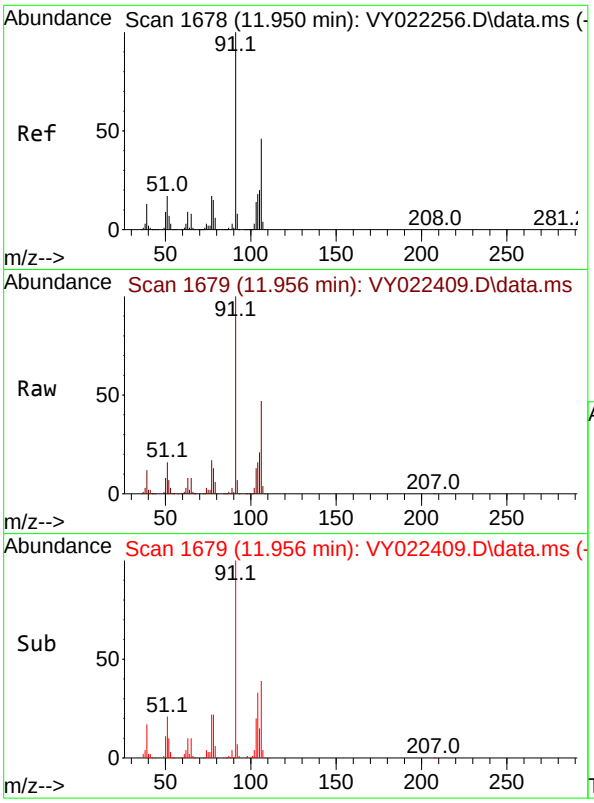


#68
m/p-Xylenes
Concen: 40.555 ug/l
RT: 11.633 min Scan# 1626
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion:106 Resp: 197872

Ion	Ratio	Lower	Upper
106	100		
91	197.5	163.0	244.4



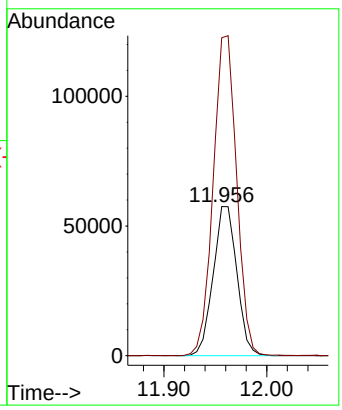


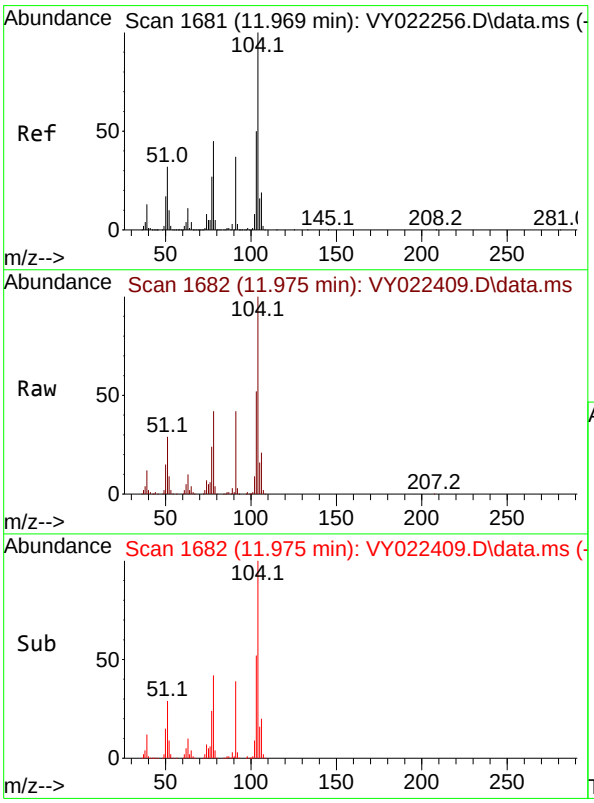
#69
o-Xylene
Concen: 19.908 ug/l
RT: 11.956 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

Tgt Ion:106 Resp: 91898

Ion	Ratio	Lower	Upper
106	100		
91	212.8	108.3	324.8

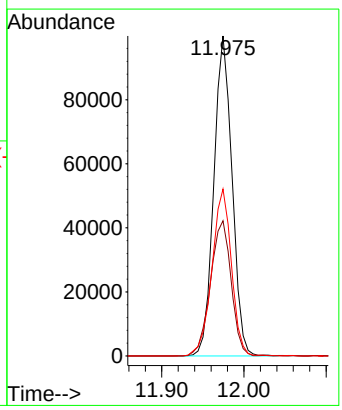


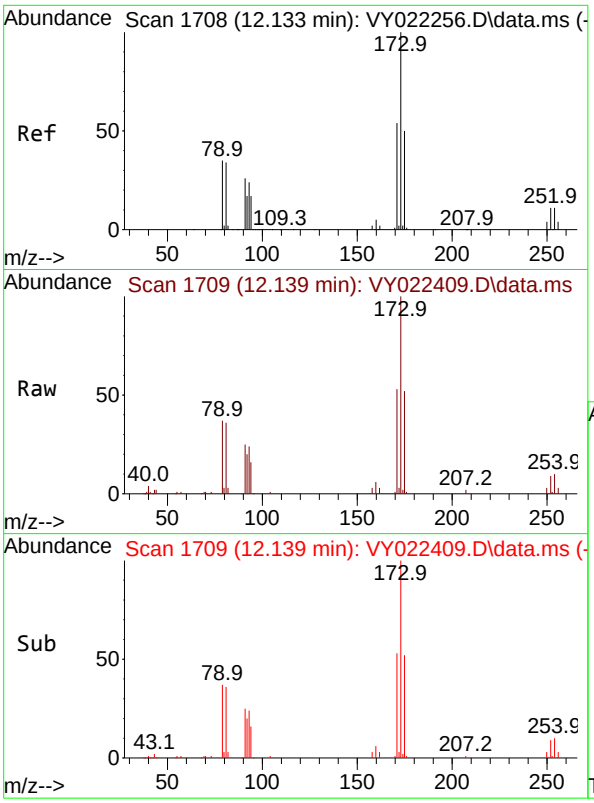


#70
Styrene
Concen: 19.765 ug/l
RT: 11.975 min Scan# 1682
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion:104 Resp: 153910

Ion	Ratio	Lower	Upper
104	100		
78	47.9	40.9	61.3
103	55.7	43.7	65.5



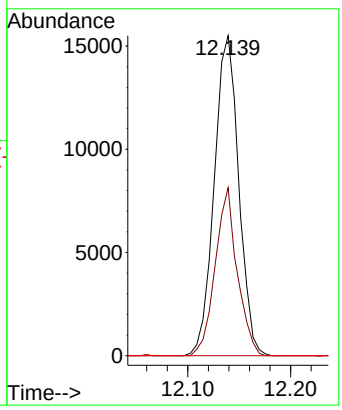


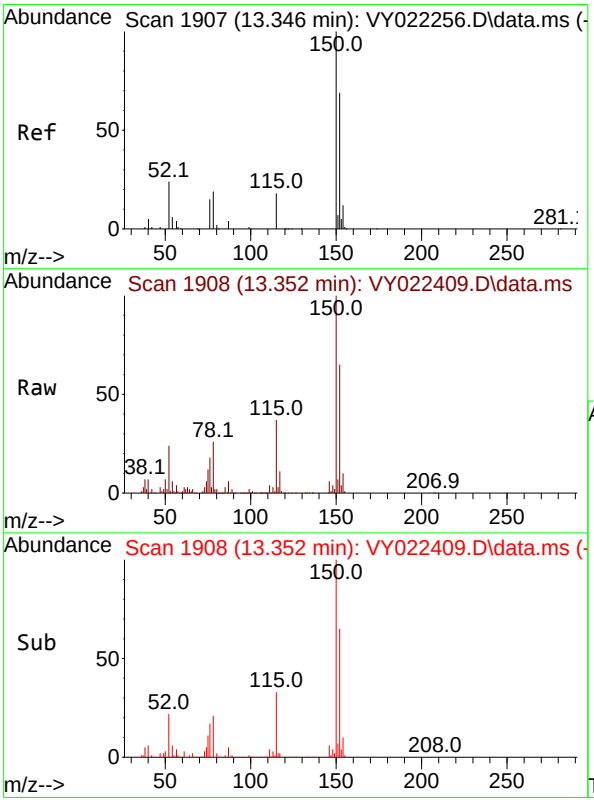
#71
Bromoform
Concen: 19.951 ug/l
RT: 12.139 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

Tgt Ion:173 Resp: 25596

Ion	Ratio	Lower	Upper
173	100		
175	47.2	24.7	74.1
254	0.0	0.0	0.0

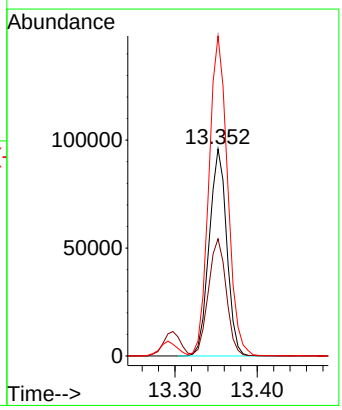


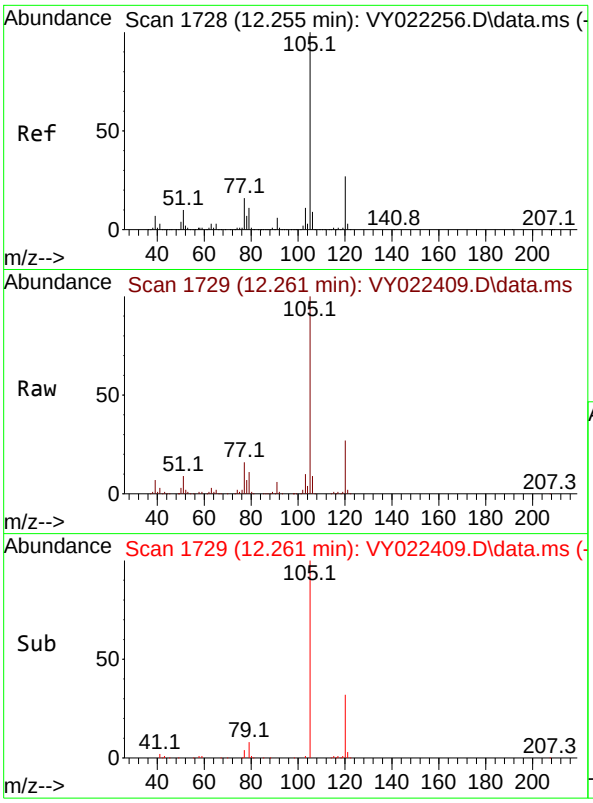


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.352 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion:152 Resp: 141917

Ion	Ratio	Lower	Upper
152	100		
115	57.7	29.4	88.2
150	164.9	0.0	353.8



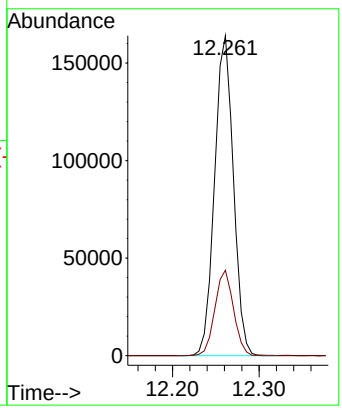


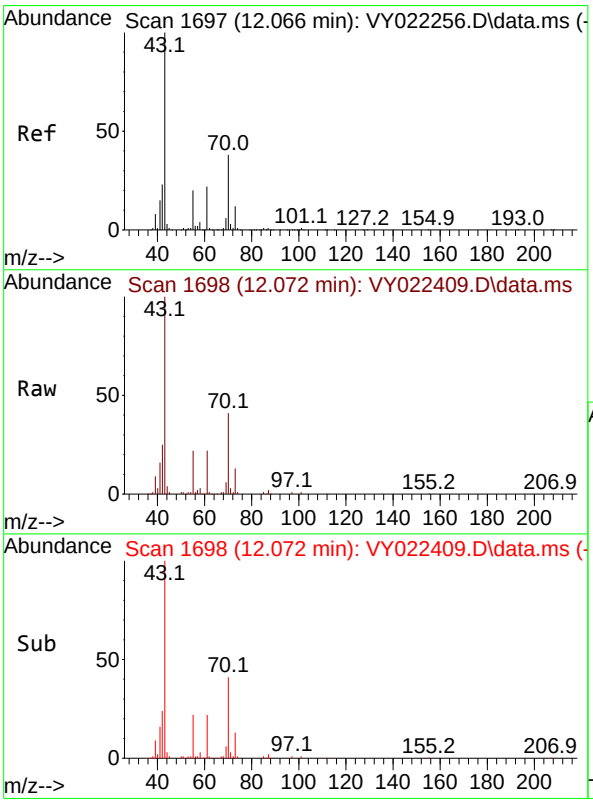
#73
Isopropylbenzene
Concen: 21.034 ug/l
RT: 12.261 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

Tgt Ion:105 Resp: 247301

Ion	Ratio	Lower	Upper
105	100		
120	26.4	13.2	39.6

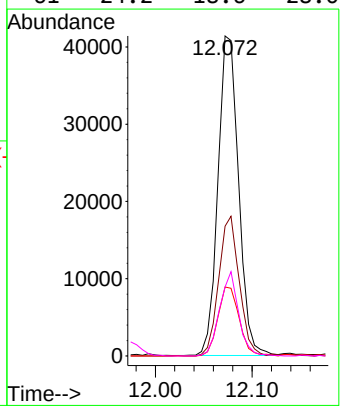


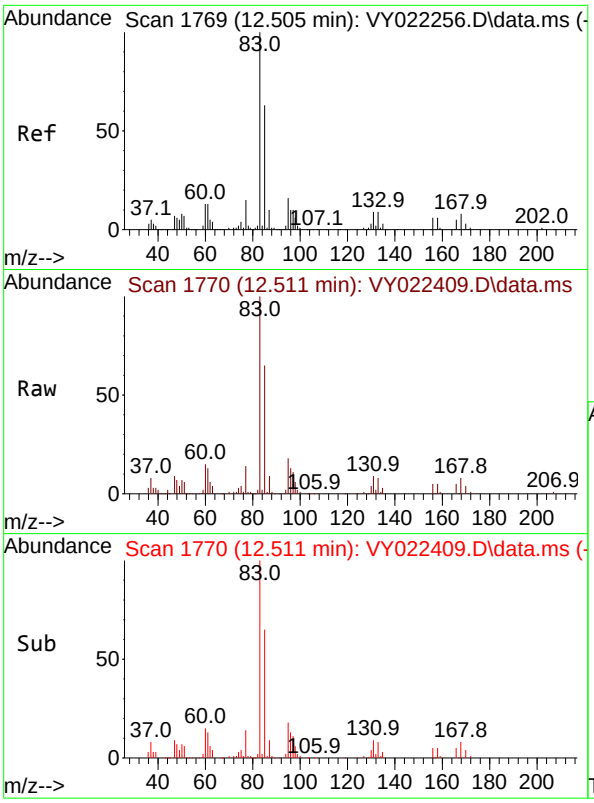


#74
N-amyl acetate
Concen: 18.223 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 43 Resp: 61277

Ion	Ratio	Lower	Upper
43	100		
70	43.4	31.4	47.0
55	22.3	17.0	25.6
61	24.2	18.6	28.0



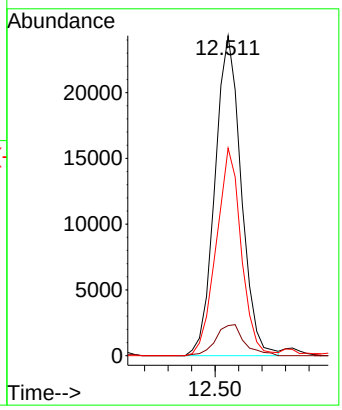


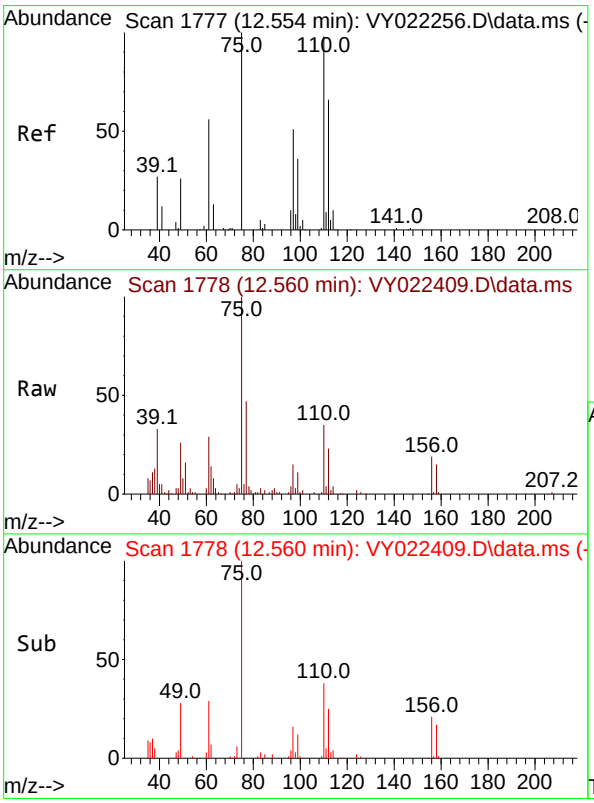
#75
1,1,2,2-Tetrachloroethane
Concen: 20.883 ug/l
RT: 12.511 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

Tgt Ion: 83 Resp: 37759

Ion	Ratio	Lower	Upper
83	100		
131	10.6	4.9	14.7
85	62.0	32.0	96.0

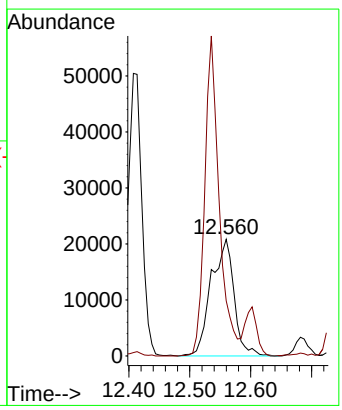


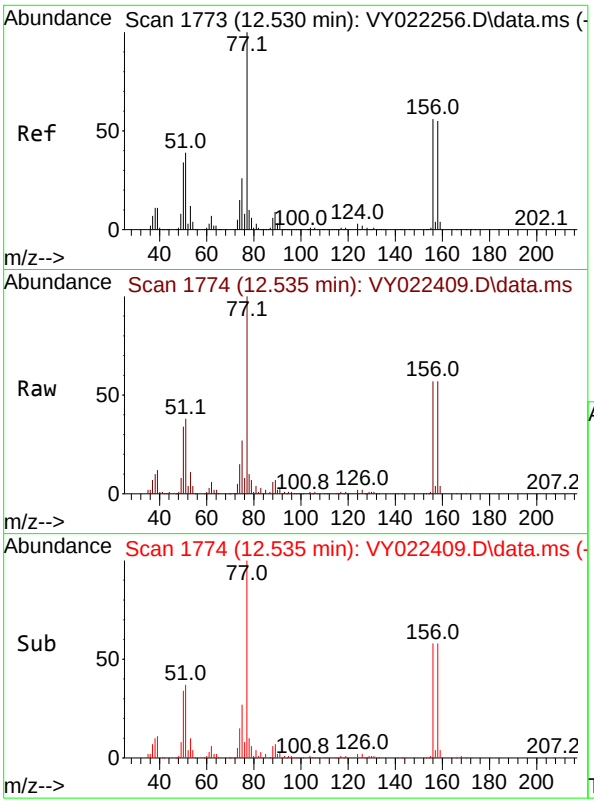


#76
1,2,3-Trichloropropane
Concen: 37.941 ug/l
RT: 12.560 min Scan# 1778
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 75 Resp: 54551

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0



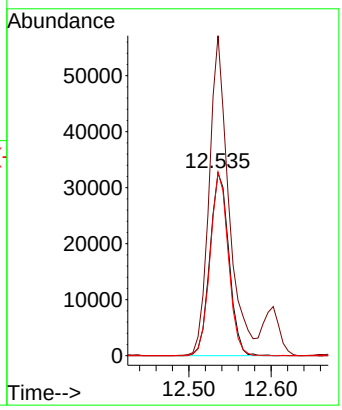


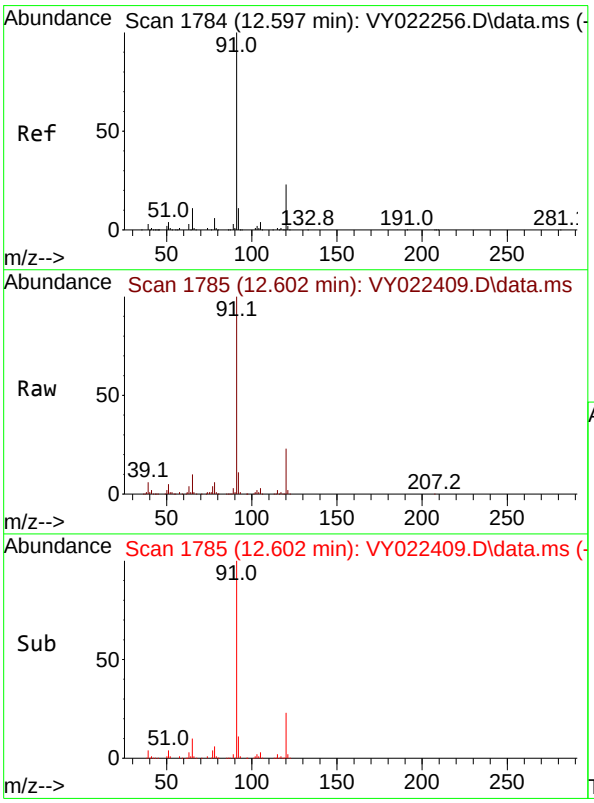
#77
Bromobenzene
Concen: 20.854 ug/l
RT: 12.535 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

Tgt Ion:156 Resp: 52367

Ion	Ratio	Lower	Upper
156	100		
77	179.6	94.5	283.6
158	96.3	48.4	145.3

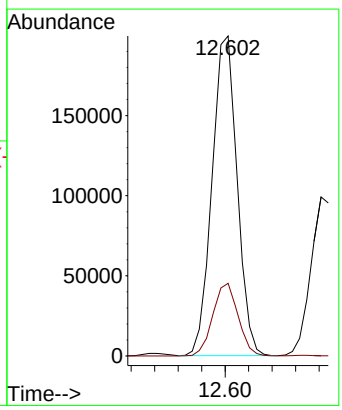


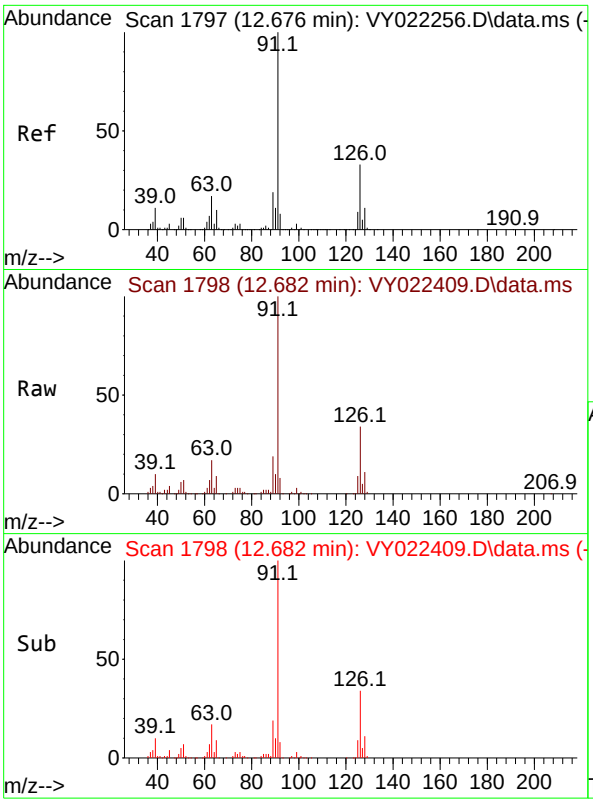


#78
n-propylbenzene
Concen: 20.885 ug/l
RT: 12.602 min Scan# 1785
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 91 Resp: 296181

Ion	Ratio	Lower	Upper
91	100		
120	22.9	11.1	33.3



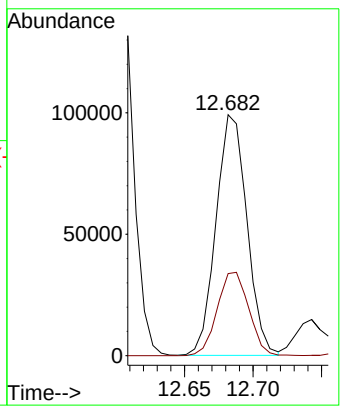


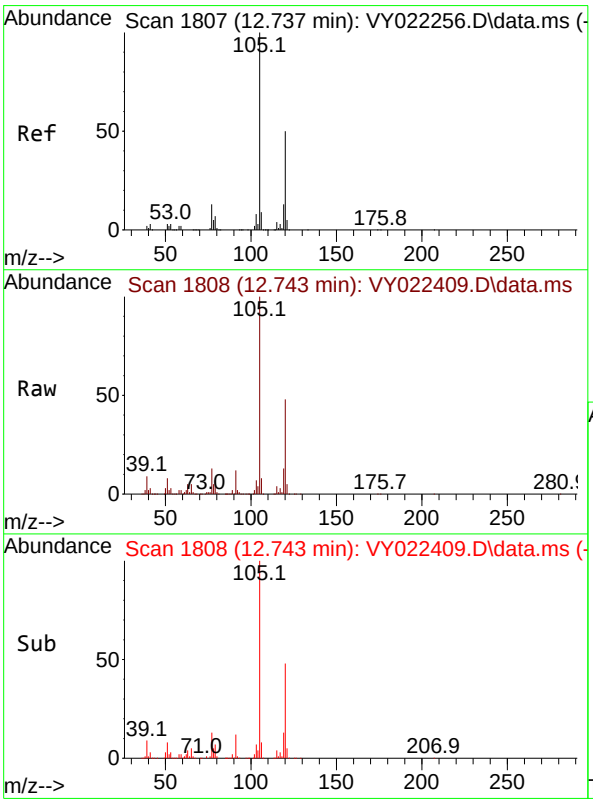
#79
2-Chlorotoluene
Concen: 19.979 ug/l
RT: 12.682 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

Tgt Ion: 91 Resp: 155703

Ion	Ratio	Lower	Upper
91	100		
126	35.3	16.8	50.4

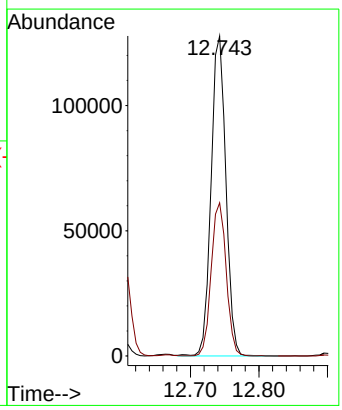


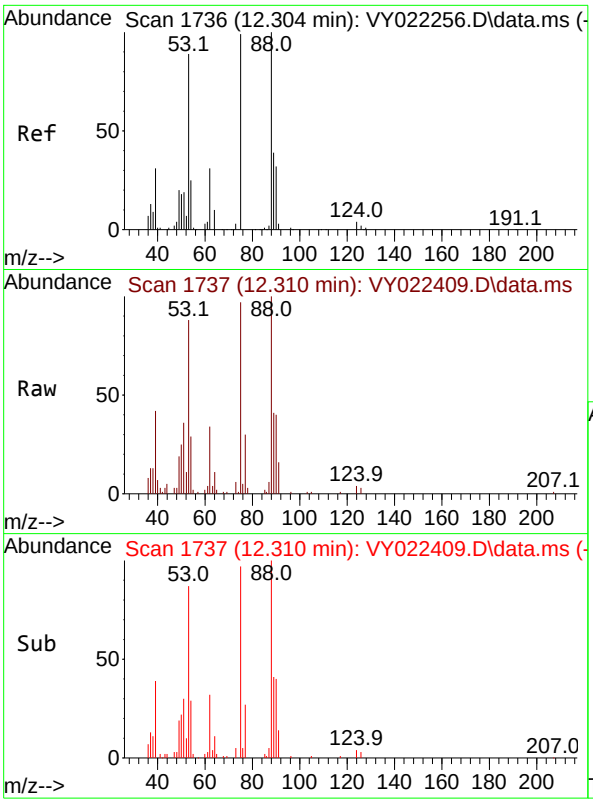


#80
1,3,5-Trimethylbenzene
Concen: 20.182 ug/l
RT: 12.743 min Scan# 1808
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion:105 Resp: 191546

Ion	Ratio	Lower	Upper
105	100		
120	48.7	24.2	72.6



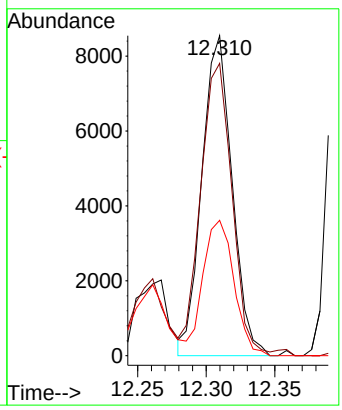


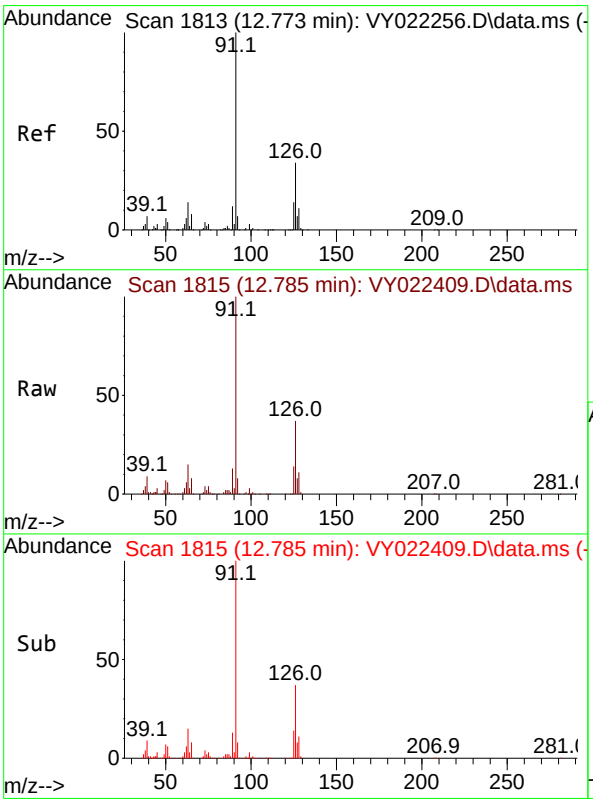
#81
trans-1,4-Dichloro-2-butene
Concen: 18.400 ug/l
RT: 12.310 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

Tgt Ion: 75 Resp: 13059

Ion	Ratio	Lower	Upper
75	100		
53	95.8	75.8	113.8
89	43.4	36.2	54.2

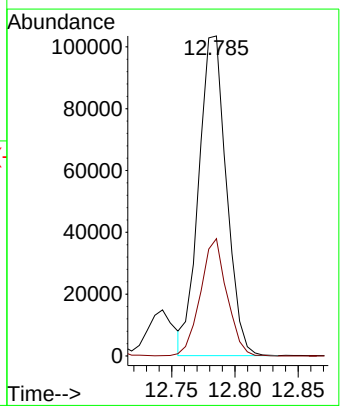


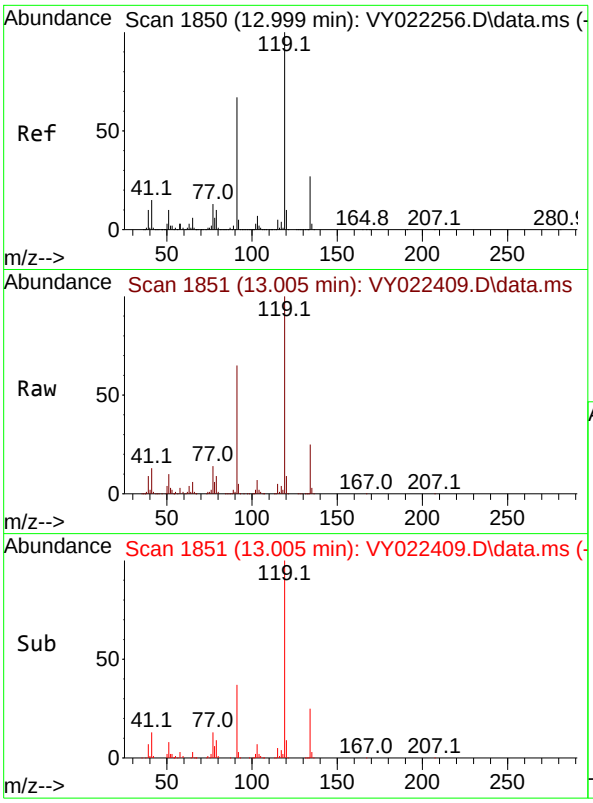


#82
4-Chlorotoluene
Concen: 19.626 ug/l
RT: 12.785 min Scan# 1815
Delta R.T. 0.012 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 91 Resp: 157322

Ion	Ratio	Lower	Upper
91	100		
126	35.2	16.8	50.4



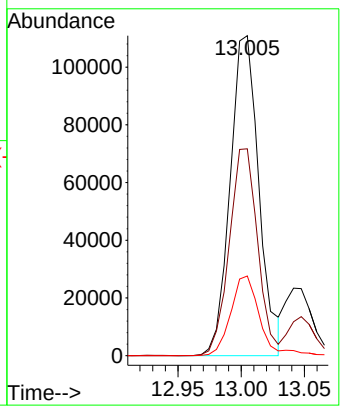


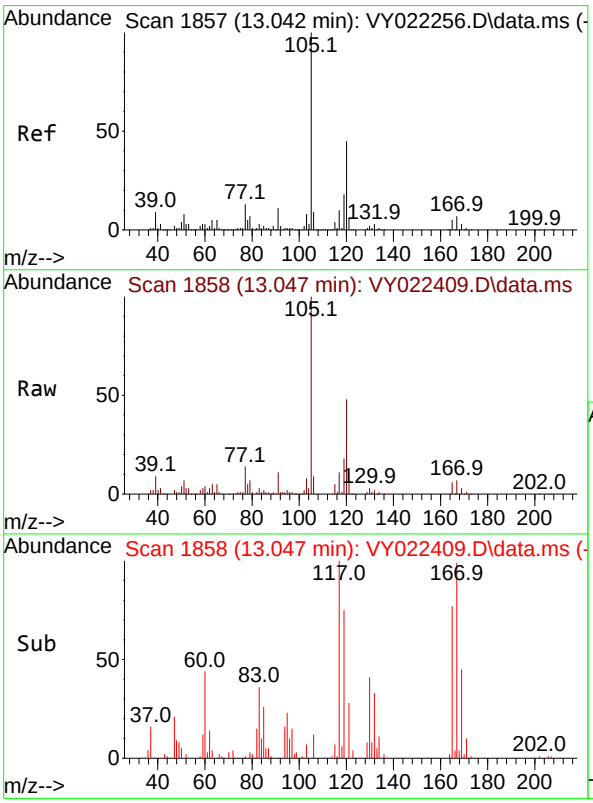
#83
tert-Butylbenzene
Concen: 20.841 ug/l
RT: 13.005 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

Tgt Ion:119 Resp: 175804

Ion	Ratio	Lower	Upper
119	100		
91	63.8	32.8	98.3
134	25.2	12.9	38.6

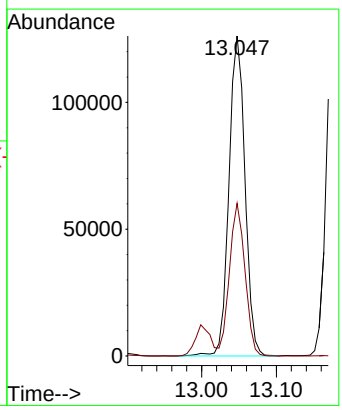


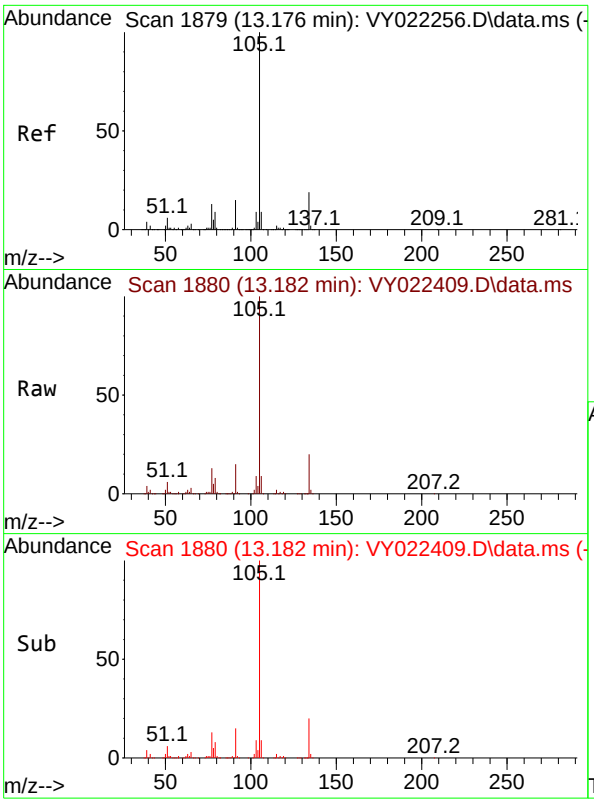


#84
1,2,4-Trimethylbenzene
Concen: 19.994 ug/l
RT: 13.047 min Scan# 1858
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion:105 Resp: 188374

Ion	Ratio	Lower	Upper
105	100		
120	46.0	22.3	66.9



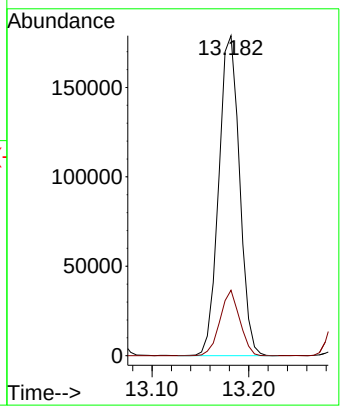


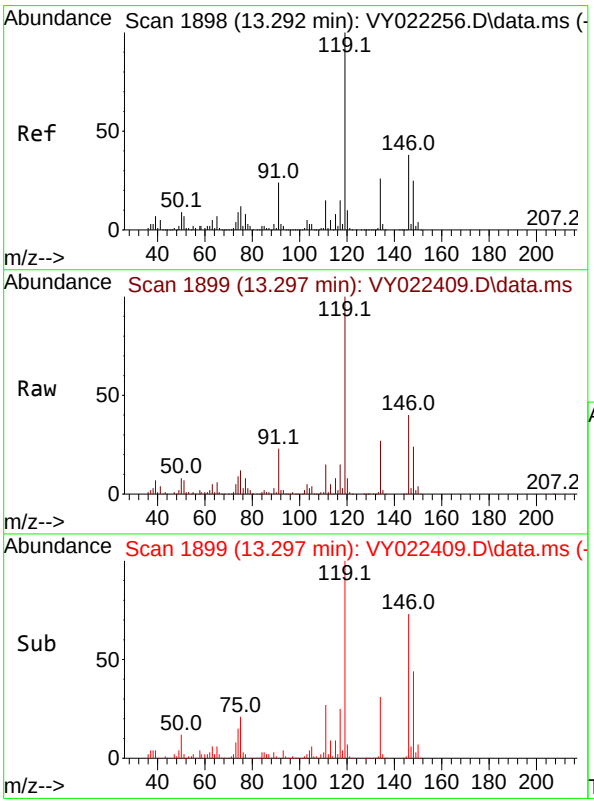
#85
sec-Butylbenzene
Concen: 21.275 ug/l
RT: 13.182 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

Tgt Ion:105 Resp: 266407

Ion	Ratio	Lower	Upper
105	100		
134	19.5	9.8	29.5

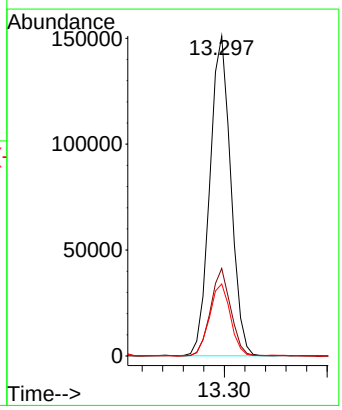


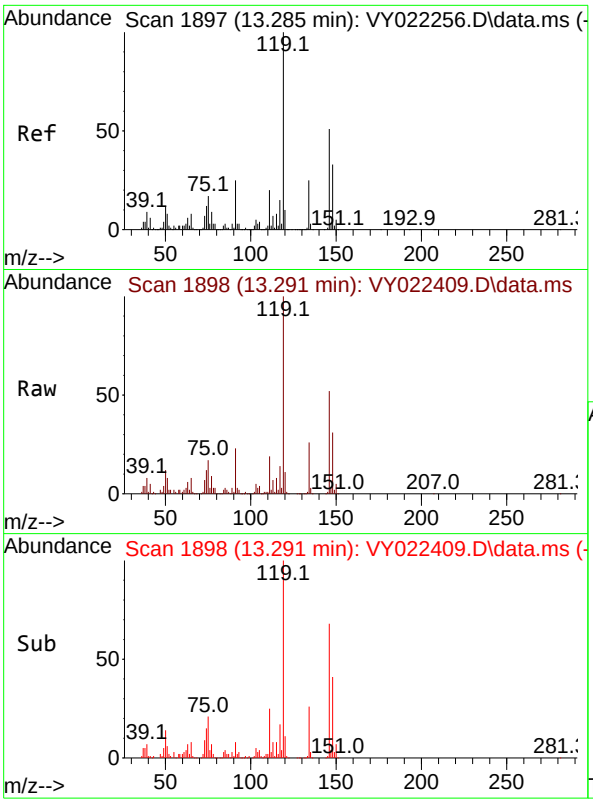


#86
p-Isopropyltoluene
Concen: 20.291 ug/l
RT: 13.297 min Scan# 1899
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion:119 Resp: 213699

Ion	Ratio	Lower	Upper
119	100		
134	26.4	12.9	38.6
91	22.6	12.1	36.3



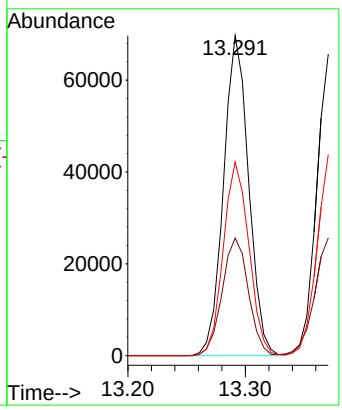


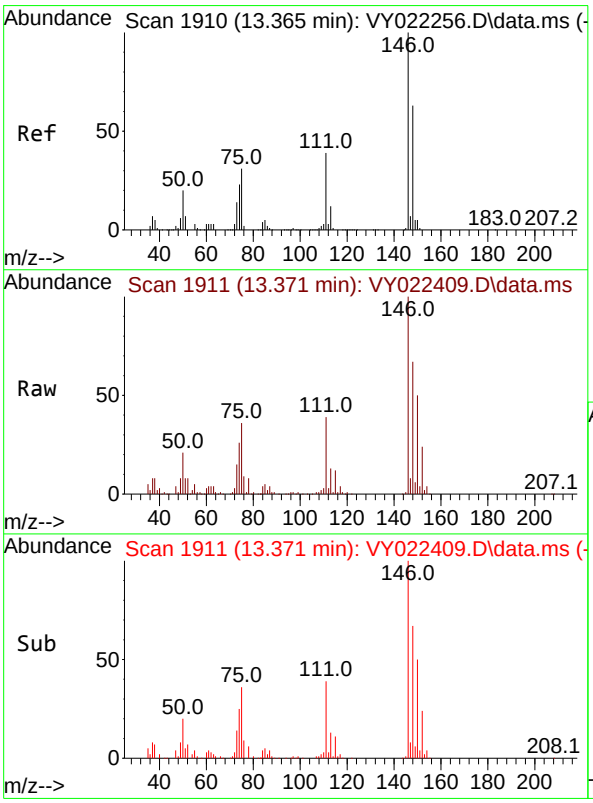
#87
1,3-Dichlorobenzene
Concen: 20.186 ug/l
RT: 13.291 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

Tgt Ion:146 Resp: 103478

Ion	Ratio	Lower	Upper
146	100		
111	38.4	19.9	59.7
148	61.8	31.9	95.7

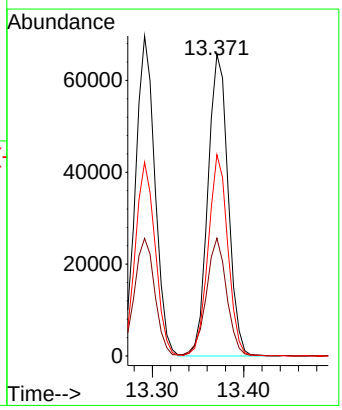


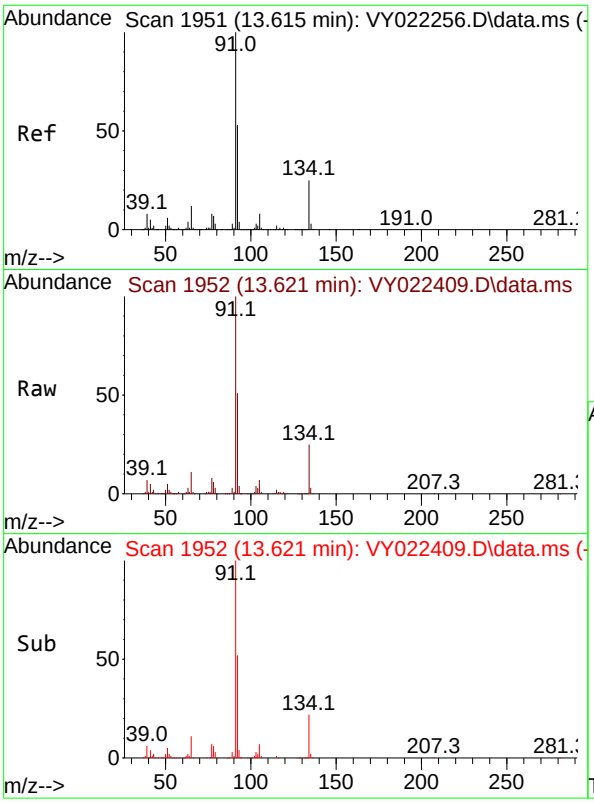


#88
1,4-Dichlorobenzene
Concen: 20.483 ug/l
RT: 13.371 min Scan# 1911
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion:146 Resp: 100997

Ion	Ratio	Lower	Upper
146	100		
111	39.6	20.0	59.9
148	64.9	32.1	96.5



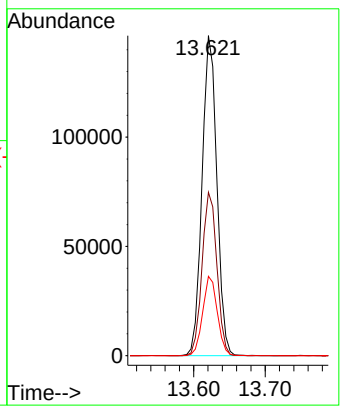


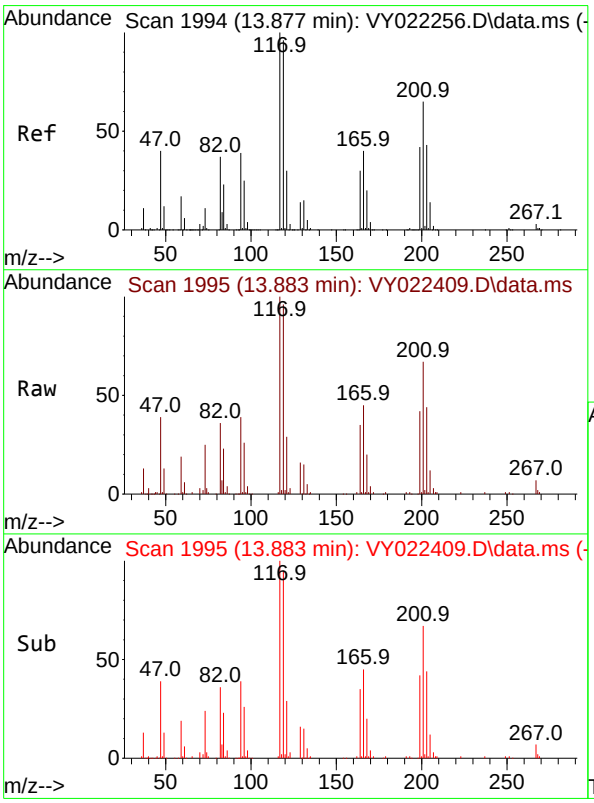
#89
n-Butylbenzene
Concen: 21.095 ug/l
RT: 13.621 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

Tgt Ion: 91 Resp: 210175

Ion	Ratio	Lower	Upper
91	100		
92	51.1	26.3	78.9
134	24.6	12.4	37.4

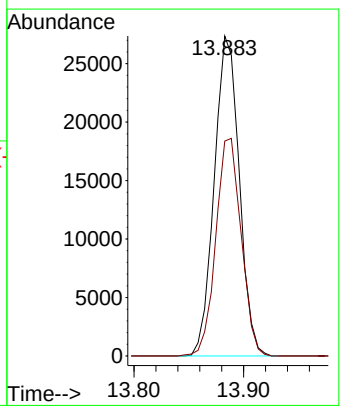


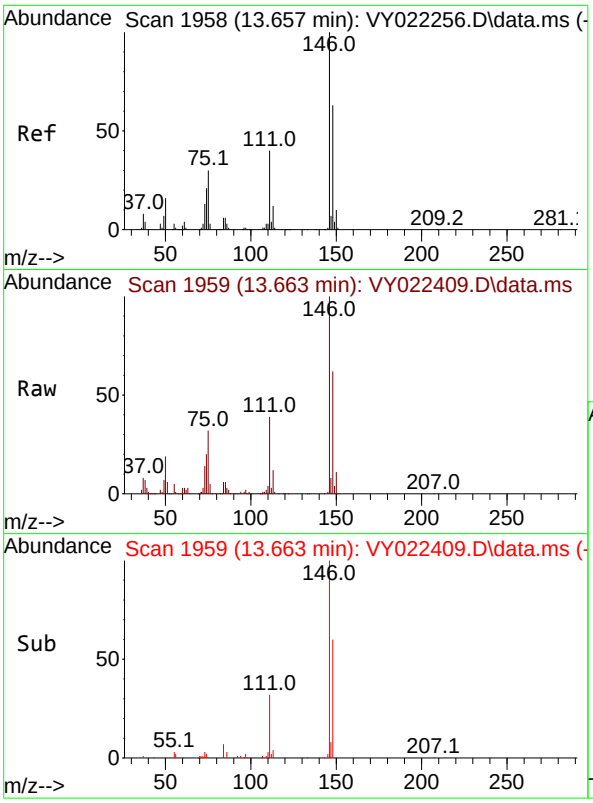


#90
Hexachloroethane
Concen: 20.378 ug/l
RT: 13.883 min Scan# 1995
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion:117 Resp: 43322

Ion	Ratio	Lower	Upper
117	100		
201	68.9	35.2	105.6



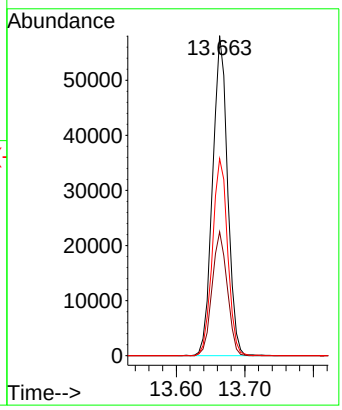


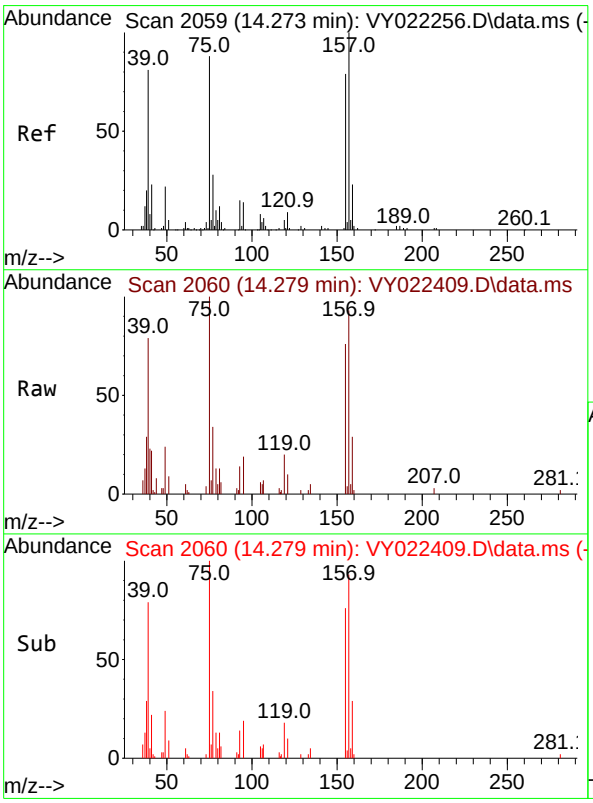
#91
1,2-Dichlorobenzene
Concen: 20.520 ug/l
RT: 13.663 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

Tgt Ion:146 Resp: 88356

Ion	Ratio	Lower	Upper
146	100		
111	39.0	20.5	61.5
148	62.4	32.0	96.0

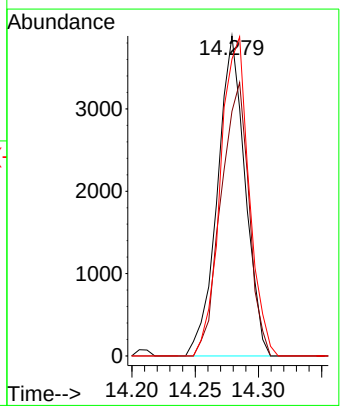


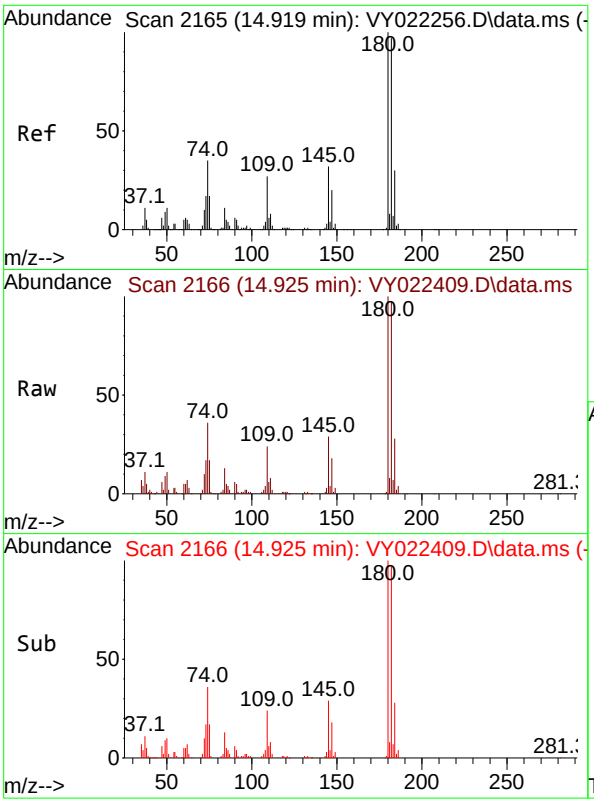


#92
1,2-Dibromo-3-Chloropropane
Concen: 20.294 ug/l
RT: 14.279 min Scan# 2060
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion: 75 Resp: 5917

Ion	Ratio	Lower	Upper
75	100		
155	86.2	43.4	130.1
157	102.6	54.6	163.9



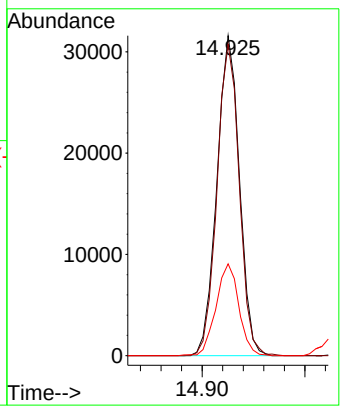


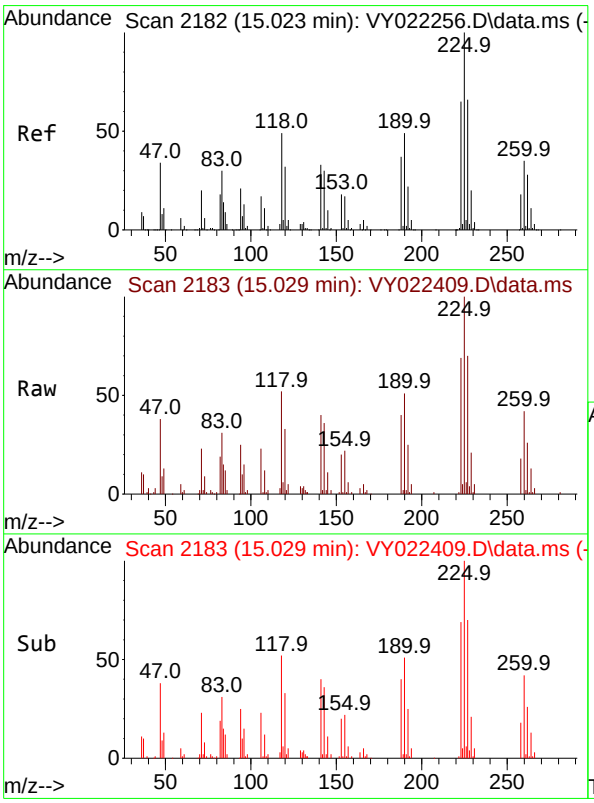
#93
1,2,4-Trichlorobenzene
Concen: 19.290 ug/l
RT: 14.925 min Scan# 21
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

Tgt Ion:180 Resp: 47978

Ion	Ratio	Lower	Upper
180	100		
182	96.2	48.0	144.0
145	29.1	15.0	45.1

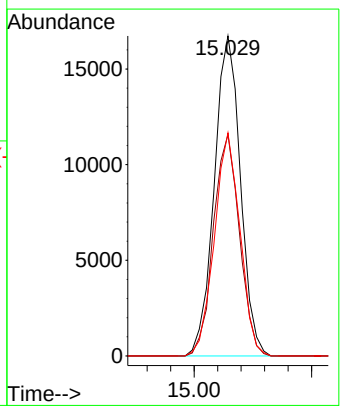


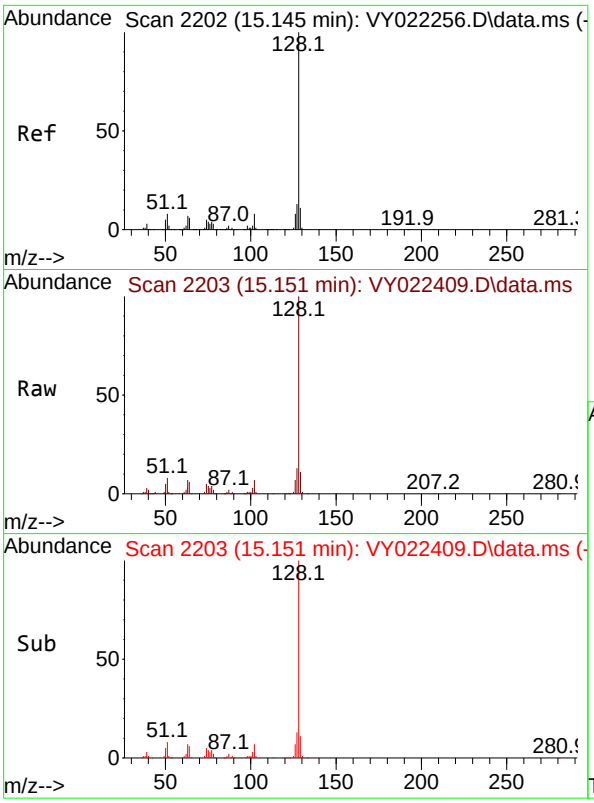


#94
Hexachlorobutadiene
Concen: 18.673 ug/l
RT: 15.029 min Scan# 2183
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion:225 Resp: 25900

Ion	Ratio	Lower	Upper
225	100		
223	68.9	31.5	94.5
227	68.0	32.1	96.3



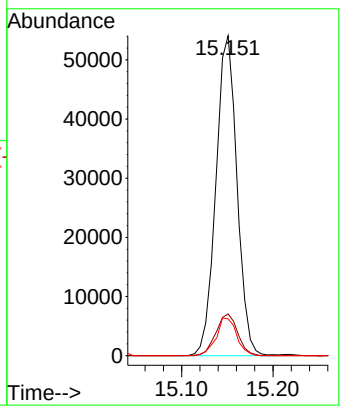


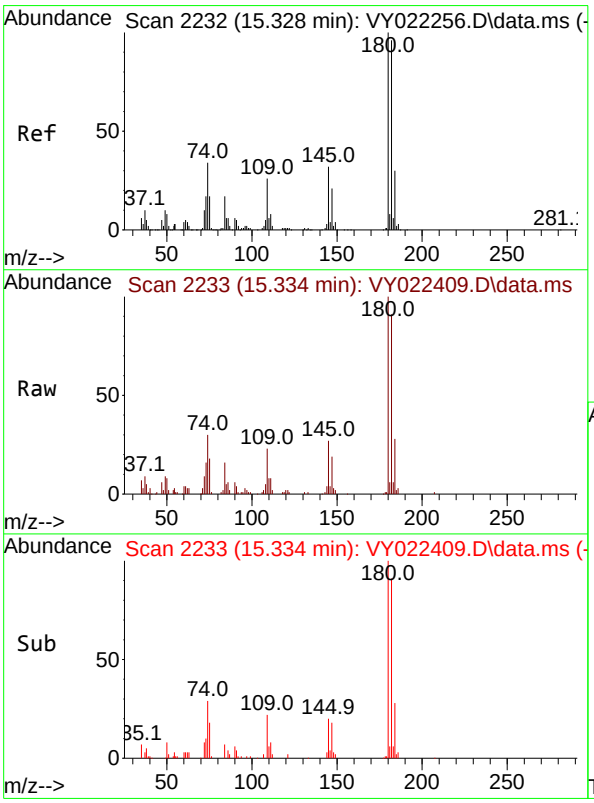
#95
Naphthalene
Concen: 18.405 ug/l
RT: 15.151 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBS01

Tgt Ion:128 Resp: 86870

Ion	Ratio	Lower	Upper
128	100		
127	13.5	10.2	15.2
129	11.4	8.8	13.2

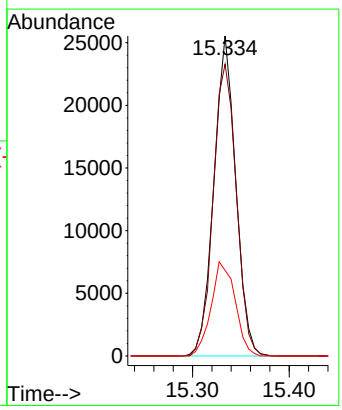




#96
1,2,3-Trichlorobenzene
Concen: 18.993 ug/l
RT: 15.334 min Scan# 2233
Delta R.T. 0.006 min
Lab File: VY022409.D
Acq: 23 May 2025 16:28

Tgt Ion:180 Resp: 40075

Ion	Ratio	Lower	Upper
180	100		
182	96.5	47.1	141.3
145	32.3	15.9	47.6



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022410.D
Acq On : 23 May 2025 16:50
Operator : SY/MD
Sample : VY0523SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

Quant Time: May 23 23:21:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	215942	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.622	114	364015	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	310108	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.353	152	143885	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	121751	51.588	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 103.180%			
35) Dibromofluoromethane	7.640	113	111647	51.387	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 102.780%			
50) Toluene-d8	10.109	98	456658	51.320	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 102.640%			
62) 4-Bromofluorobenzene	12.408	95	133958	47.495	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 95.000%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	44615	19.800	ug/l	99
3) Chloromethane	2.068	50	113910	24.032	ug/l	99
4) Vinyl Chloride	2.202	62	133332	25.178	ug/l	98
5) Bromomethane	2.598	94	160681	37.273	ug/l	95
6) Chloroethane	2.733	64	102143	31.004	ug/l	96
7) Trichlorofluoromethane	3.050	101	136307	25.423	ug/l	100
8) Diethyl Ether	3.458	74	26914	20.917	ug/l	91
9) 1,1,2-Trichlorotrifluo...	3.818	101	50721	21.791	ug/l	98
10) Methyl Iodide	4.007	142	50233	18.646	ug/l	97
11) Tert butyl alcohol	4.885	59	19053	105.720	ug/l #	100
12) 1,1-Dichloroethene	3.793	96	45905	19.874	ug/l	96
13) Acrolein	3.665	56	14554	55.240	ug/l	97
14) Allyl chloride	4.385	41	68849	16.999	ug/l	93
15) Acrylonitrile	5.067	53	53397	100.714	ug/l	98
16) Acetone	3.885	43	51609	116.624	ug/l	92
17) Carbon Disulfide	4.110	76	145040	19.256	ug/l	99
18) Methyl Acetate	4.391	43	23571	16.894	ug/l	94
19) Methyl tert-butyl Ether	5.122	73	128547	20.183	ug/l	94
20) Methylene Chloride	4.616	84	55034	19.246	ug/l	97
21) trans-1,2-Dichloroethene	5.116	96	51046	20.021	ug/l	95
22) Diisopropyl ether	6.025	45	154423	18.055	ug/l	95
23) Vinyl Acetate	5.964	43	478913	92.684	ug/l	95
24) 1,1-Dichloroethane	5.921	63	93240	19.513	ug/l	98
25) 2-Butanone	6.909	43	75621	102.161	ug/l	99
26) 2,2-Dichloropropane	6.890	77	82698	19.458	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	60410	20.533	ug/l	95
28) Bromochloromethane	7.250	49	39080	19.174	ug/l	93
29) Tetrahydrofuran	7.274	42	46494	97.632	ug/l	93
30) Chloroform	7.427	83	91951	20.062	ug/l	98
31) Cyclohexane	7.707	56	91262	19.115	ug/l	95
32) 1,1,1-Trichloroethane	7.622	97	82971	19.732	ug/l	100
36) 1,1-Dichloropropene	7.841	75	70261	19.634	ug/l	99
37) Ethyl Acetate	6.994	43	33678	19.559	ug/l	97
38) Carbon Tetrachloride	7.823	117	72463	19.562	ug/l	99
39) Methylcyclohexane	9.116	83	95930	19.953	ug/l	95
40) Benzene	8.085	78	206176	19.434	ug/l	98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022410.D
Acq On : 23 May 2025 16:50
Operator : SY/MD
Sample : VY0523SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

Quant Time: May 23 23:21:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	7.226	41	16022	14.028 ug/l	#	71
42) 1,2-Dichloroethane	8.164	62	56227	19.599 ug/l		99
43) Isopropyl Acetate	8.201	43	69023	18.381 ug/l	#	84
44) Trichloroethene	8.866	130	53777	20.387 ug/l		92
45) 1,2-Dichloropropane	9.146	63	48654	19.023 ug/l		99
46) Dibromomethane	9.237	93	27615	20.018 ug/l		97
47) Bromodichloromethane	9.426	83	70365	19.662 ug/l		97
48) Methyl methacrylate	9.225	41	30525	17.382 ug/l		90
49) 1,4-Dioxane	9.244	88	6552	420.419 ug/l		88
51) 4-Methyl-2-Pentanone	9.999	43	172786	93.776 ug/l		96
52) Toluene	10.176	92	127157	18.928 ug/l		98
53) t-1,3-Dichloropropene	10.396	75	65585	18.778 ug/l		98
54) cis-1,3-Dichloropropene	9.859	75	75996	18.992 ug/l		94
55) 1,1,2-Trichloroethane	10.573	97	36548	20.689 ug/l		94
56) Ethyl methacrylate	10.445	69	52121	18.941 ug/l		95
57) 1,3-Dichloropropane	10.719	76	61767	19.679 ug/l		100
58) 2-Chloroethyl Vinyl ether	9.713	63	105296	85.253 ug/l		98
59) 2-Hexanone	10.762	43	117719	95.289 ug/l		96
60) Dibromochloromethane	10.914	129	44658	19.477 ug/l		100
61) 1,2-Dibromoethane	11.018	107	32889	19.976 ug/l		100
64) Tetrachloroethene	10.652	164	56065	19.560 ug/l		95
65) Chlorobenzene	11.444	112	136439	19.502 ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.518	131	45297	18.833 ug/l		98
67) Ethyl Benzene	11.524	91	245943	18.770 ug/l		99
68) m/p-Xylenes	11.633	106	186520	37.778 ug/l		97
69) o-Xylene	11.956	106	88111	18.862 ug/l		97
70) Styrene	11.975	104	146038	18.533 ug/l		98
71) Bromoform	12.133	173	24721	19.042 ug/l	#	98
73) Isopropylbenzene	12.255	105	232709	19.522 ug/l		99
74) N-amyl acetate	12.072	43	61518	18.045 ug/l		97
75) 1,1,2,2-Tetrachloroethane	12.511	83	38775	21.151 ug/l		99
76) 1,2,3-Trichloropropane	12.560	75	52974	36.341 ug/l	#	100
77) Bromobenzene	12.536	156	49824	19.570 ug/l		96
78) n-propylbenzene	12.597	91	279878	19.466 ug/l		100
79) 2-Chlorotoluene	12.682	91	149035	18.862 ug/l		97
80) 1,3,5-Trimethylbenzene	12.737	105	180541	18.763 ug/l		98
81) trans-1,4-Dichloro-2-b...	12.310	75	13733	19.084 ug/l		95
82) 4-Chlorotoluene	12.779	91	150359	18.501 ug/l		97
83) tert-Butylbenzene	12.999	119	163800	19.152 ug/l		99
84) 1,2,4-Trimethylbenzene	13.048	105	180298	18.876 ug/l		97
85) sec-Butylbenzene	13.176	105	250907	19.763 ug/l		99
86) p-Isopropyltoluene	13.292	119	201925	18.911 ug/l		98
87) 1,3-Dichlorobenzene	13.292	146	98161	18.887 ug/l		99
88) 1,4-Dichlorobenzene	13.371	146	95398	19.082 ug/l		98
89) n-Butylbenzene	13.621	91	192901	19.096 ug/l		99
90) Hexachloroethane	13.883	117	40452	18.768 ug/l		95
91) 1,2-Dichlorobenzene	13.657	146	83346	19.092 ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	5680	19.214 ug/l		96
93) 1,2,4-Trichlorobenzene	14.925	180	46528	18.451 ug/l		98
94) Hexachlorobutadiene	15.023	225	25477	18.116 ug/l		98
95) Naphthalene	15.145	128	91043	19.025 ug/l		100
96) 1,2,3-Trichlorobenzene	15.328	180	38757	18.117 ug/l		100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022410.D
Acq On : 23 May 2025 16:50
Operator : SY/MD
Sample : VY0523SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

Quant Time: May 23 23:21:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

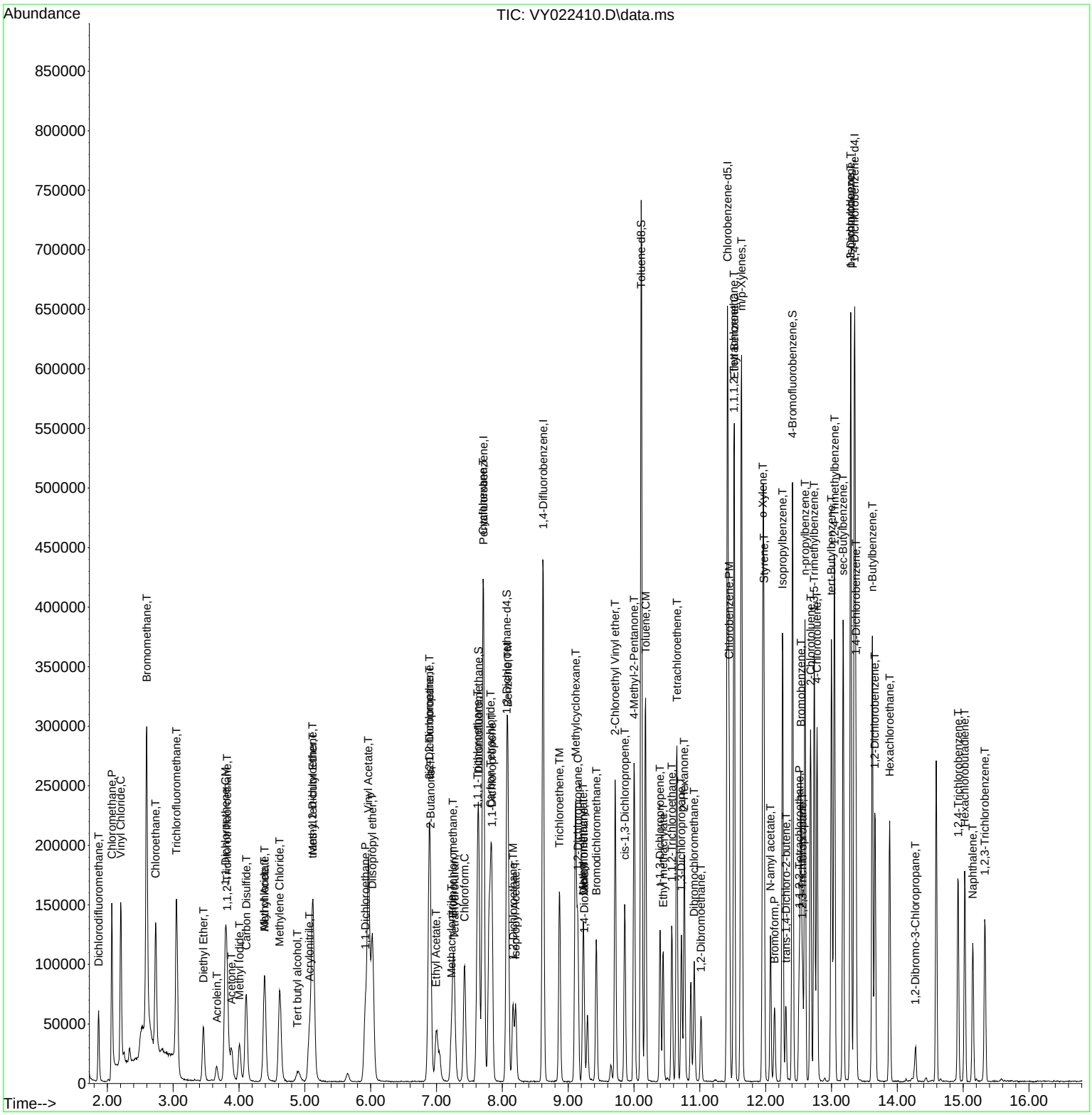
(#) = qualifier out of range (m) = manual integration (+) = signals summed

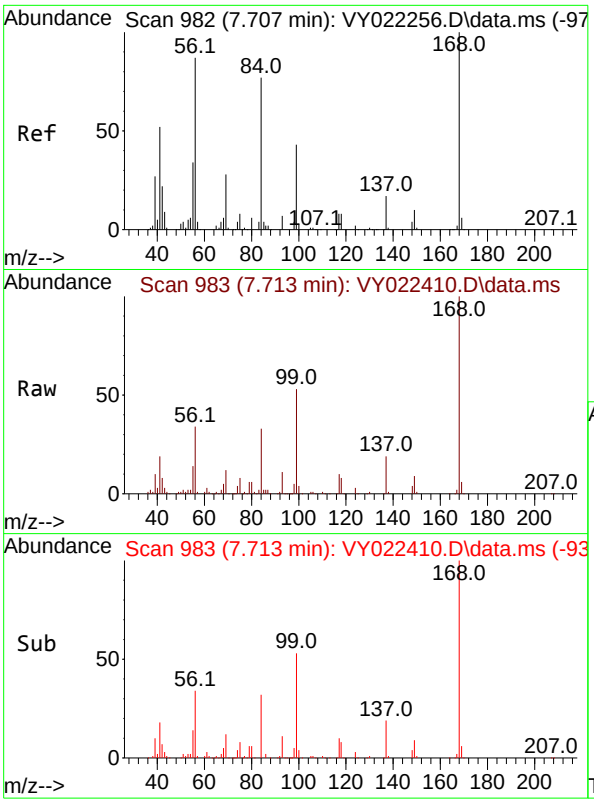
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022410.D
Acq On : 23 May 2025 16:50
Operator : SY/MD
Sample : VY0523SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

Quant Time: May 23 23:21:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration



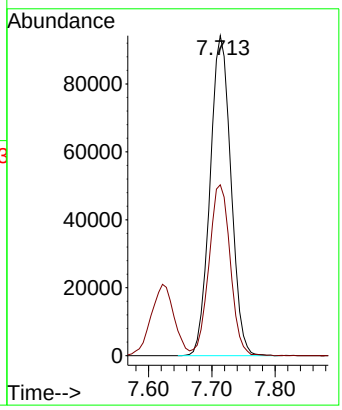


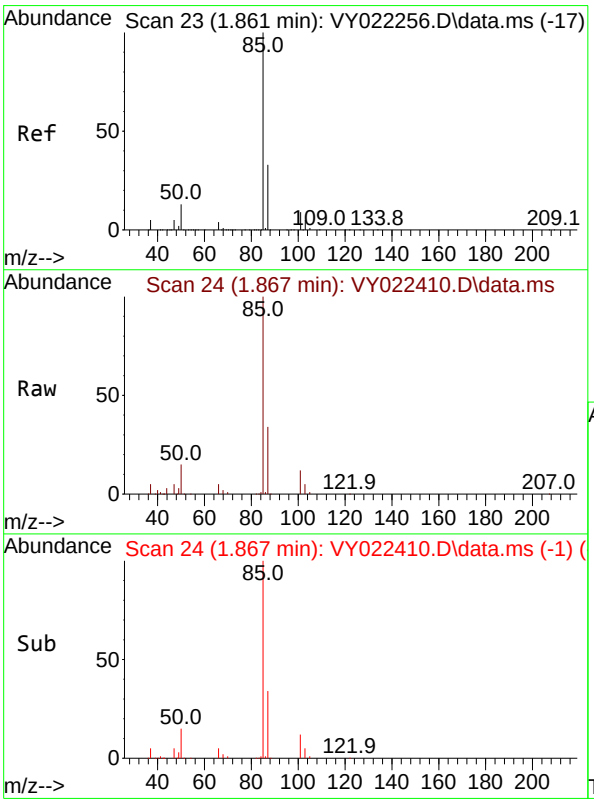
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

Tgt Ion:168 Resp: 215942

Ion	Ratio	Lower	Upper
168	100		
99	53.3	44.2	66.4

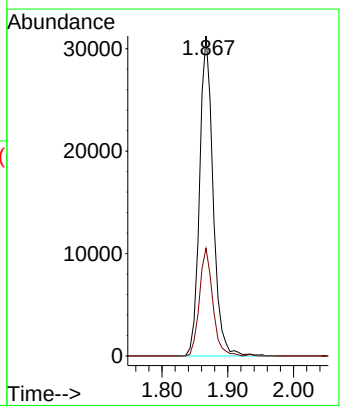


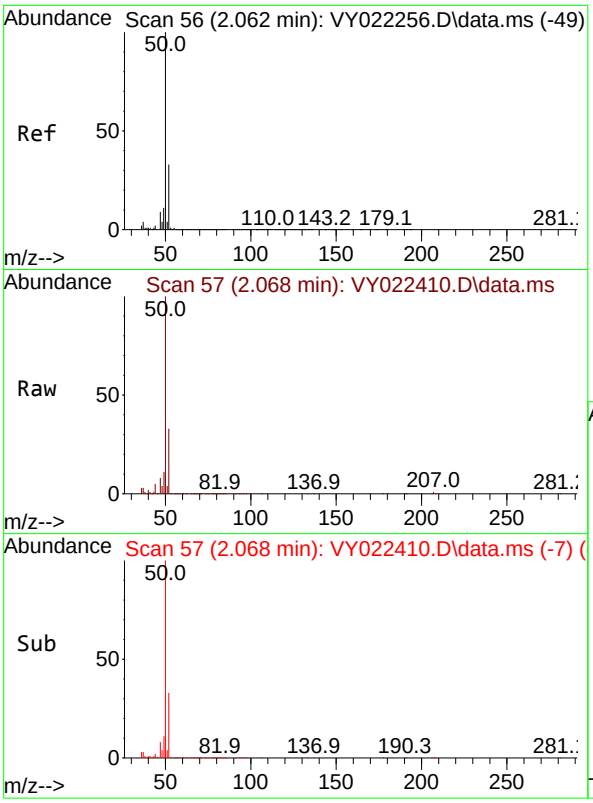


#2
Dichlorodifluoromethane
Concen: 19.800 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 85 Resp: 44615

Ion	Ratio	Lower	Upper
85	100		
87	33.6	16.5	49.5



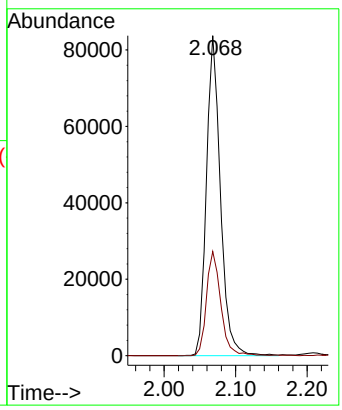


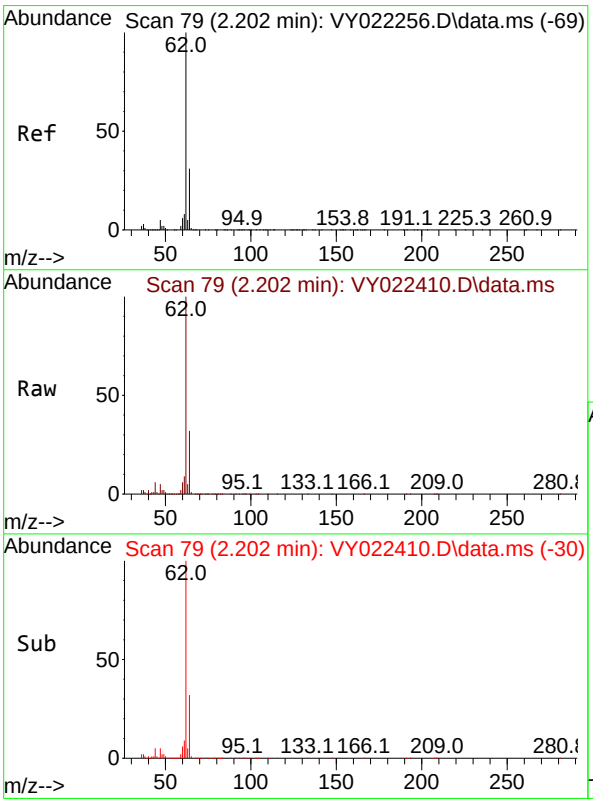
#3
Chloromethane
Concen: 24.032 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

Tgt Ion: 50 Resp: 113910

Ion	Ratio	Lower	Upper
50	100		
52	32.5	26.5	39.7

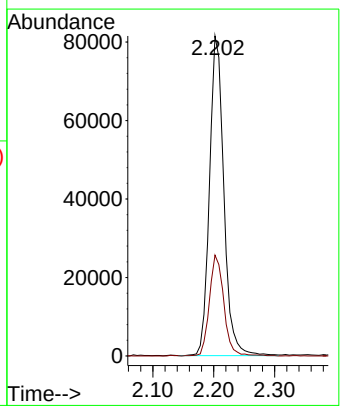


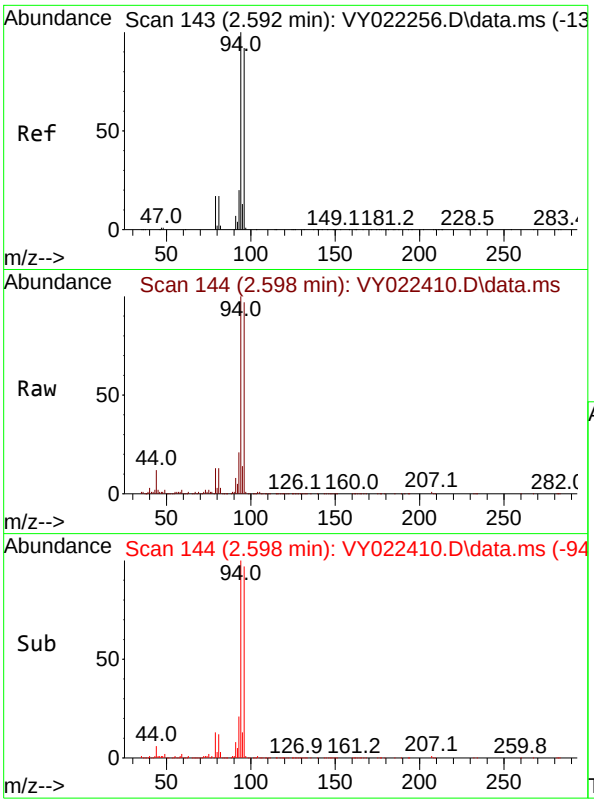


#4
Vinyl Chloride
Concen: 25.178 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.000 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 62 Resp: 133332

Ion	Ratio	Lower	Upper
62	100		
64	31.5	24.5	36.7



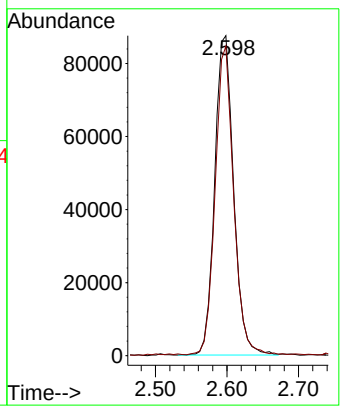


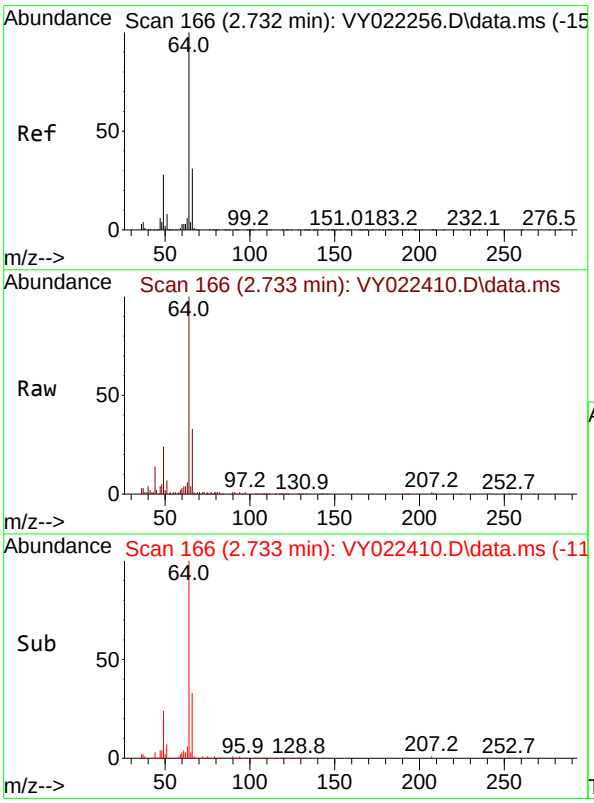
#5
Bromomethane
Concen: 37.273 ug/l
RT: 2.598 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

Tgt Ion: 94 Resp: 160681

Ion	Ratio	Lower	Upper
94	100		
96	96.4	73.4	110.0

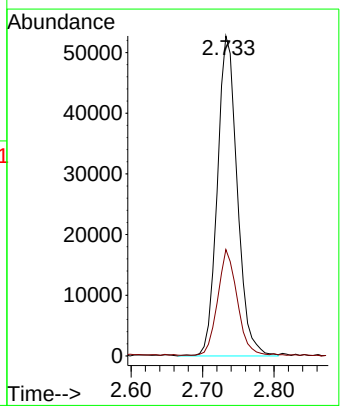


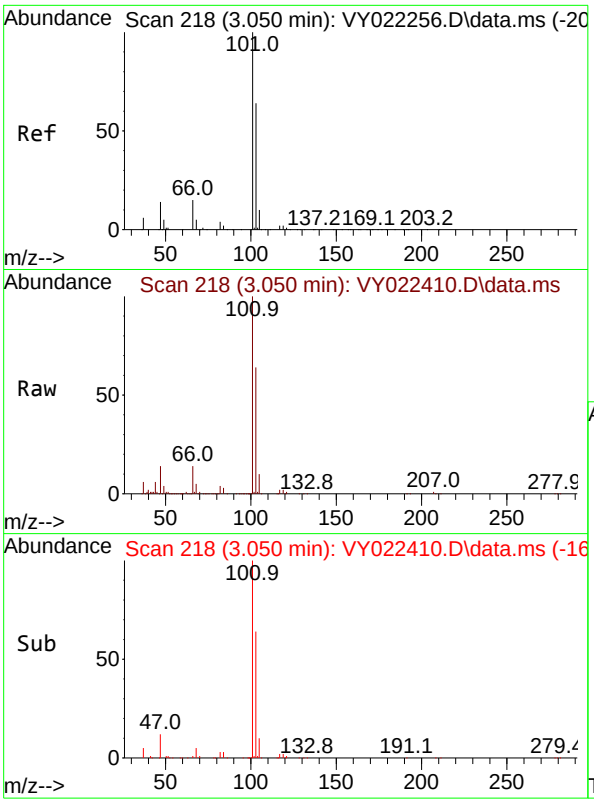


#6
Chloroethane
Concen: 31.004 ug/l
RT: 2.733 min Scan# 166
Delta R.T. 0.000 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 64 Resp: 102143

Ion	Ratio	Lower	Upper
64	100		
66	33.0	24.8	37.2



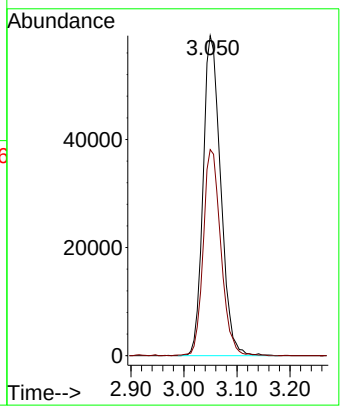


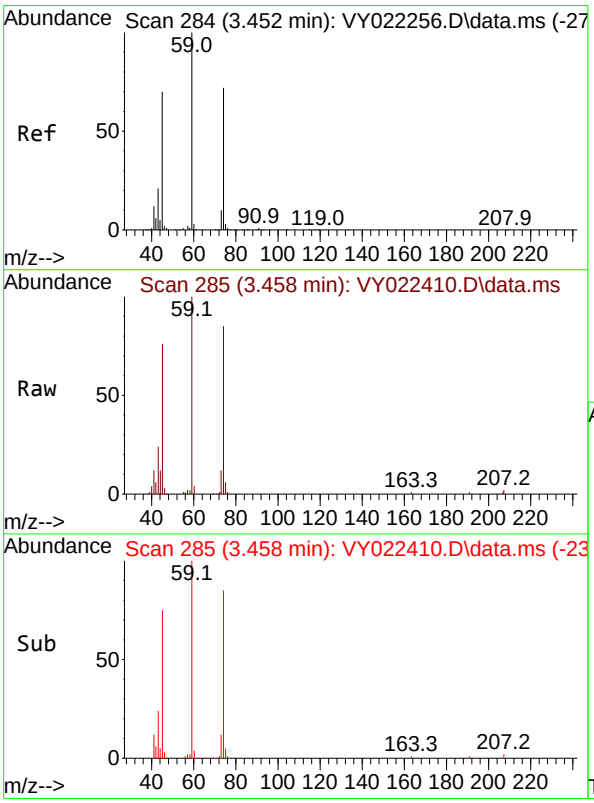
#7
Trichlorofluoromethane
Concen: 25.423 ug/l
RT: 3.050 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

Tgt Ion:101 Resp: 136307

Ion	Ratio	Lower	Upper
101	100		
103	64.4	51.7	77.5

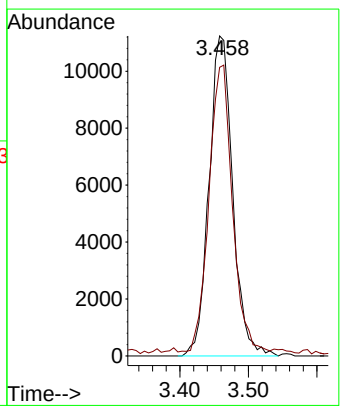


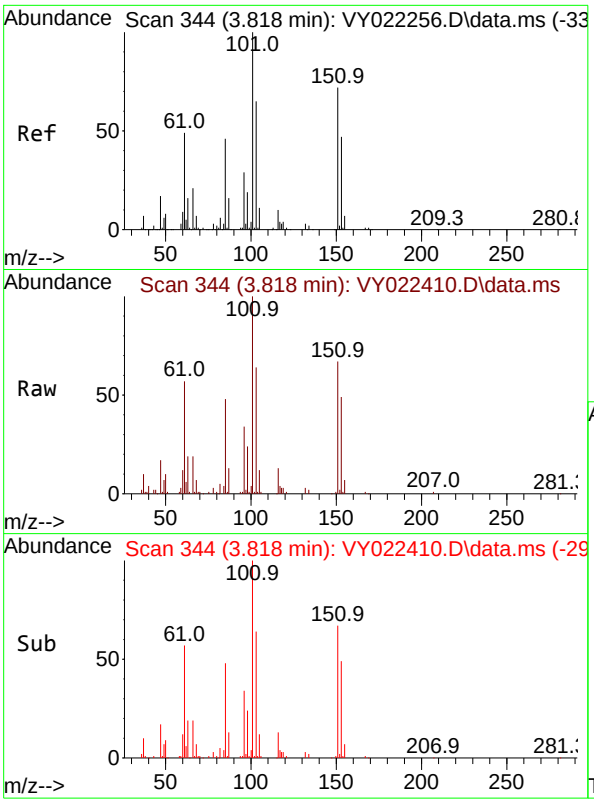


#8
Diethyl Ether
Concen: 20.917 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 74 Resp: 26914

Ion	Ratio	Lower	Upper
74	100		
45	88.0	48.6	145.8



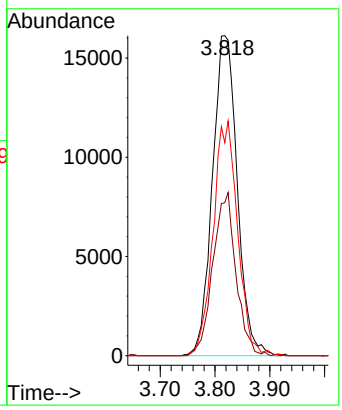


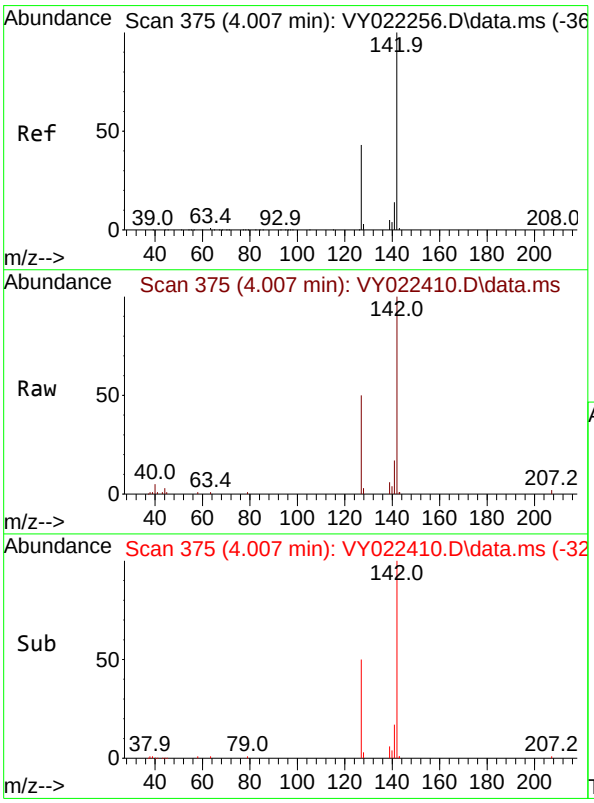
#9
1,1,2-Trichlorotrifluoroethane
Concen: 21.791 ug/l
RT: 3.818 min Scan# 34
Delta R.T. 0.000 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

Tgt Ion:101 Resp: 50721

Ion	Ratio	Lower	Upper
101	100		
85	47.6	38.6	58.0
151	72.5	59.7	89.5

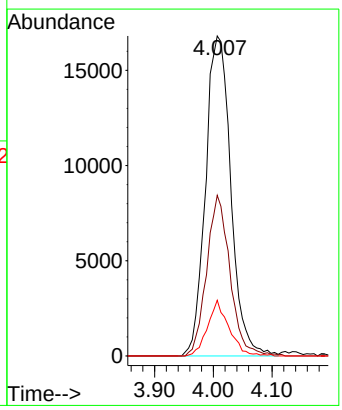


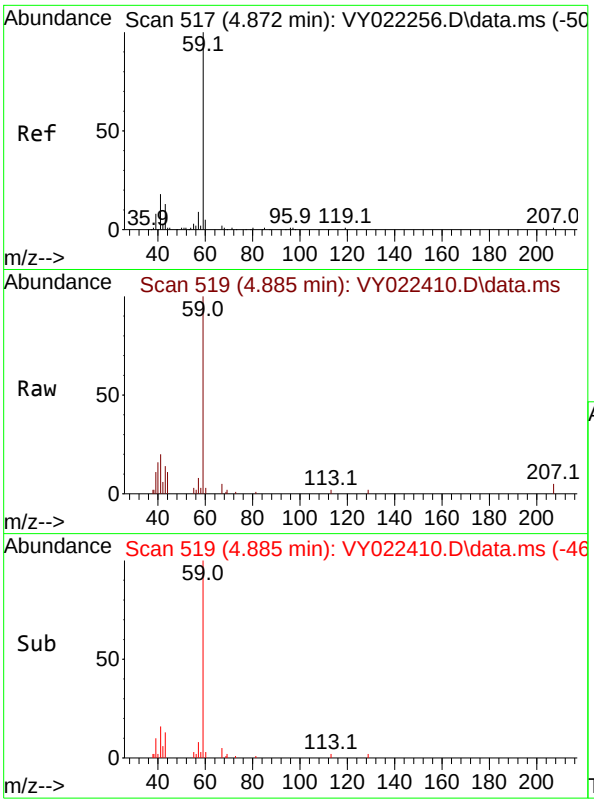


#10
Methyl Iodide
Concen: 18.646 ug/l
RT: 4.007 min Scan# 375
Delta R.T. 0.000 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion:142 Resp: 50233

Ion	Ratio	Lower	Upper
142	100		
127	46.5	35.7	53.5
141	14.8	11.1	16.7



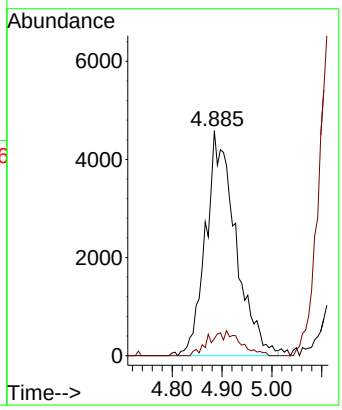


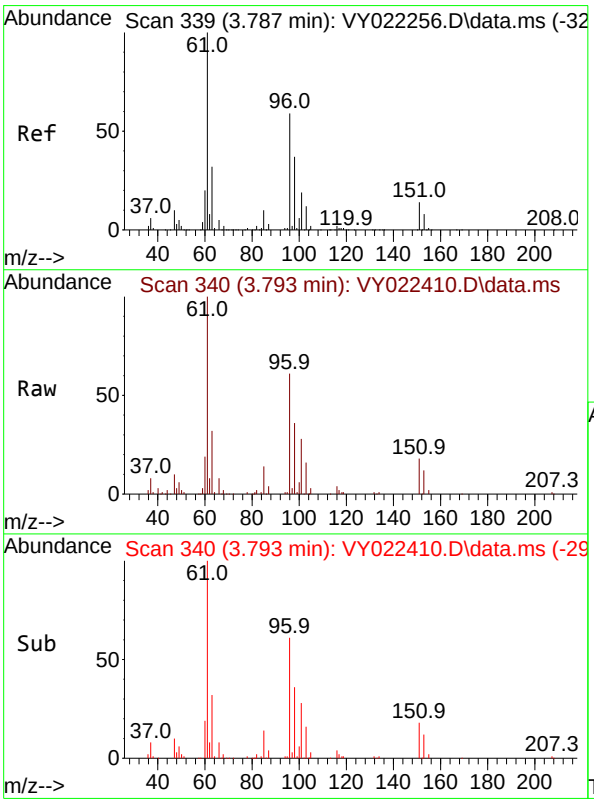
#11
Tert butyl alcohol
Concen: 105.720 ug/l
RT: 4.885 min Scan# 5
Delta R.T. 0.012 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

Tgt Ion: 59 Resp: 19053

Ion	Ratio	Lower	Upper
59	100		
57	5.6	0.0	0.0#

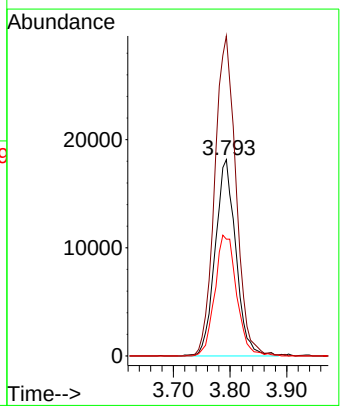


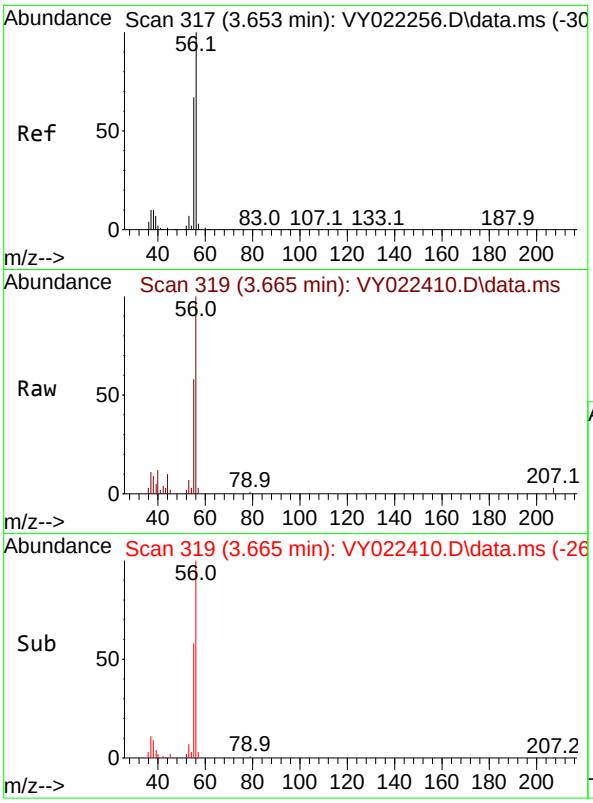


#12
1,1-Dichloroethene
Concen: 19.874 ug/l
RT: 3.793 min Scan# 340
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 96 Resp: 45905

Ion	Ratio	Lower	Upper
96	100		
61	163.0	134.9	202.3
98	59.5	49.9	74.9



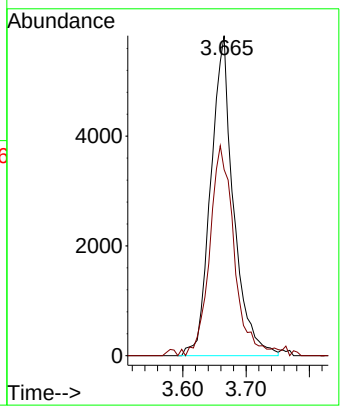


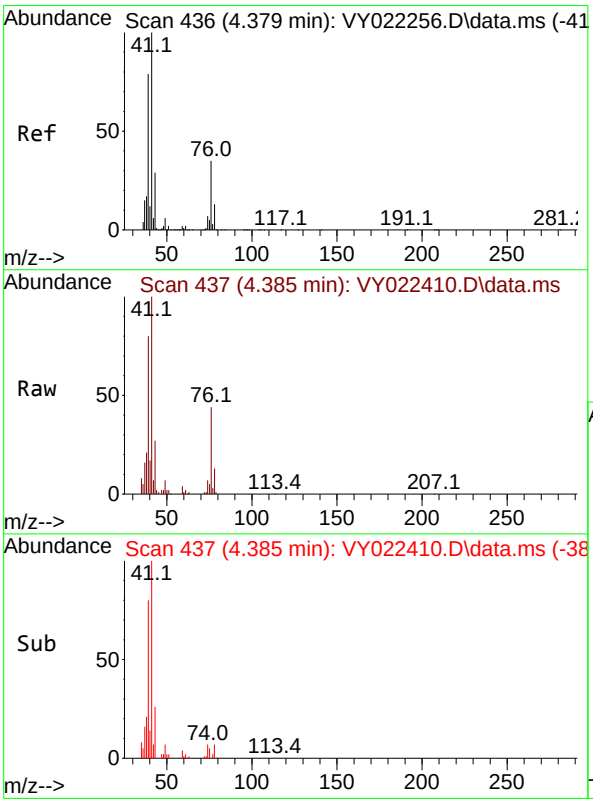
#13
Acrolein
Concen: 55.240 ug/l
RT: 3.665 min Scan# 3
Delta R.T. 0.012 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

Tgt Ion: 56 Resp: 14554

Ion	Ratio	Lower	Upper
56	100		
55	71.8	55.6	83.4

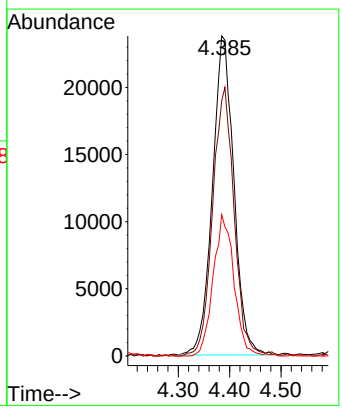


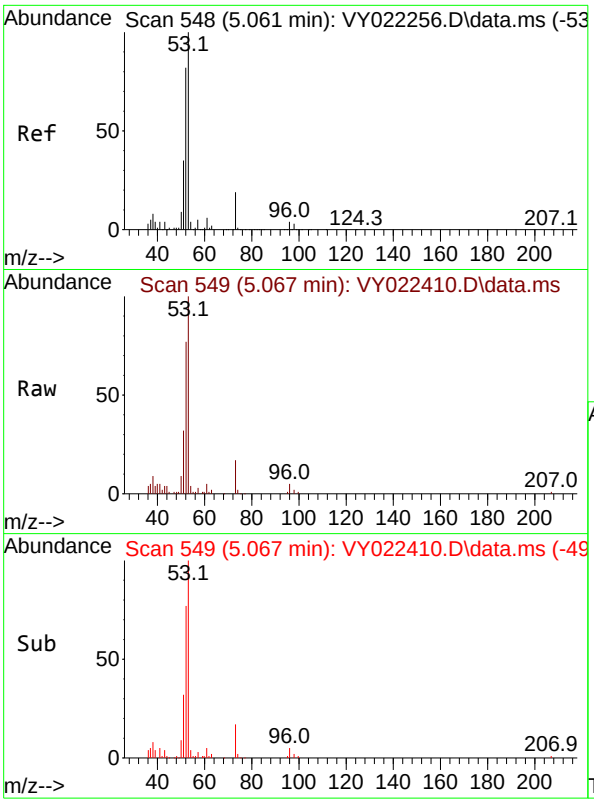


#14
Allyl chloride
Concen: 16.999 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 41 Resp: 68849

Ion	Ratio	Lower	Upper
41	100		
39	84.0	63.4	95.0
76	42.9	29.5	44.3



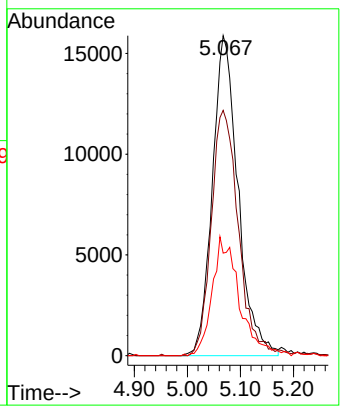


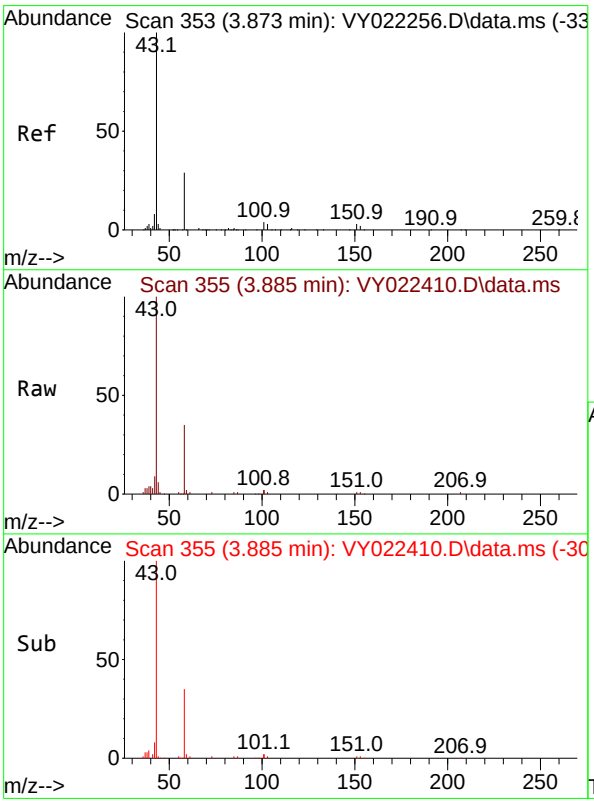
#15
Acrylonitrile
Concen: 100.714 ug/l
RT: 5.067 min Scan# 54
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

Tgt Ion: 53 Resp: 53397

Ion	Ratio	Lower	Upper
53	100		
52	81.1	66.1	99.1
51	39.2	30.0	45.0

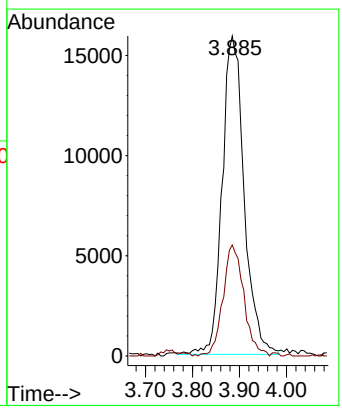


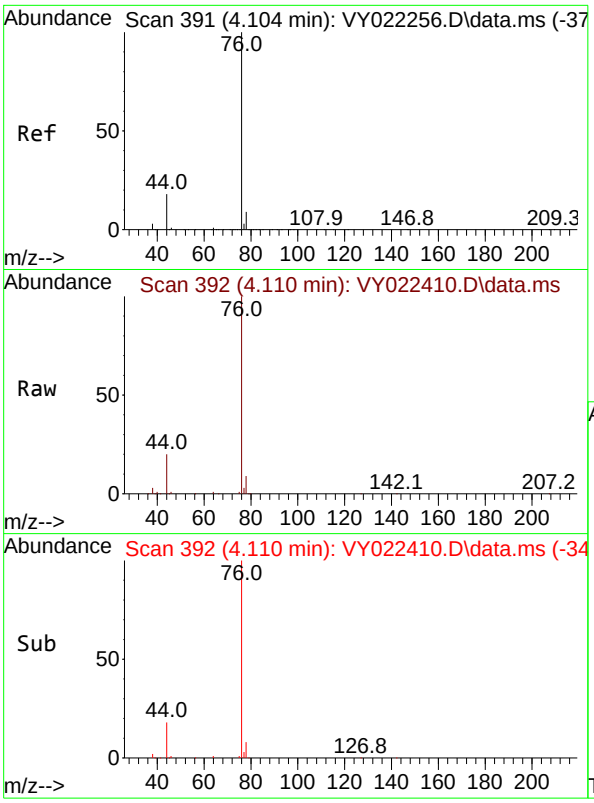


#16
Acetone
Concen: 116.624 ug/l
RT: 3.885 min Scan# 355
Delta R.T. 0.012 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 43 Resp: 51609

Ion	Ratio	Lower	Upper
43	100		
58	34.0	23.6	35.4



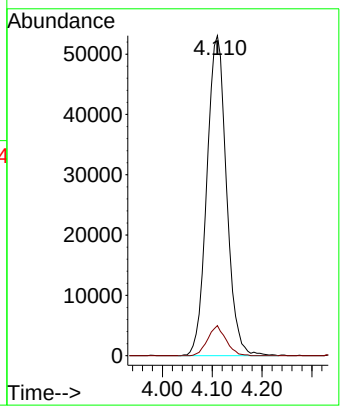


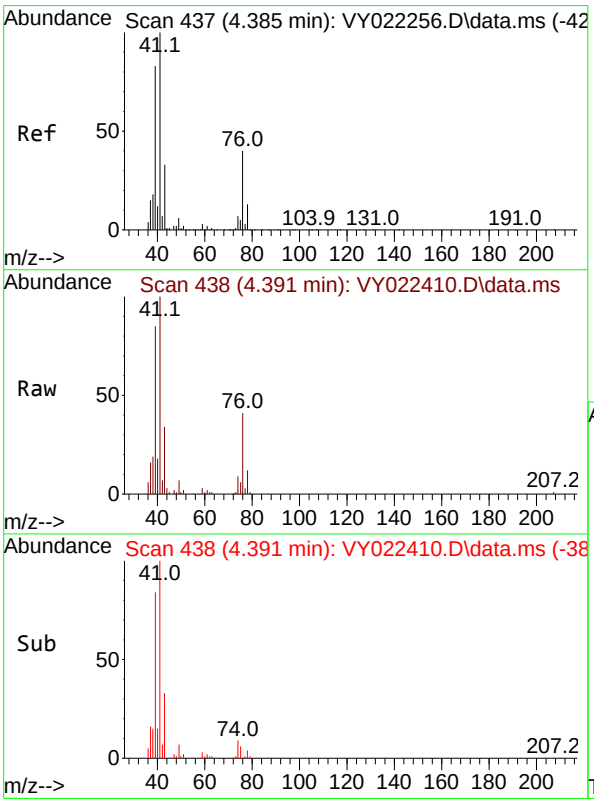
#17
Carbon Disulfide
Concen: 19.256 ug/l
RT: 4.110 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

Tgt Ion: 76 Resp: 145040

Ion	Ratio	Lower	Upper
76	100		
78	9.4	7.2	10.8

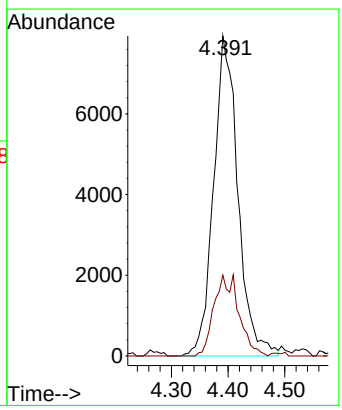


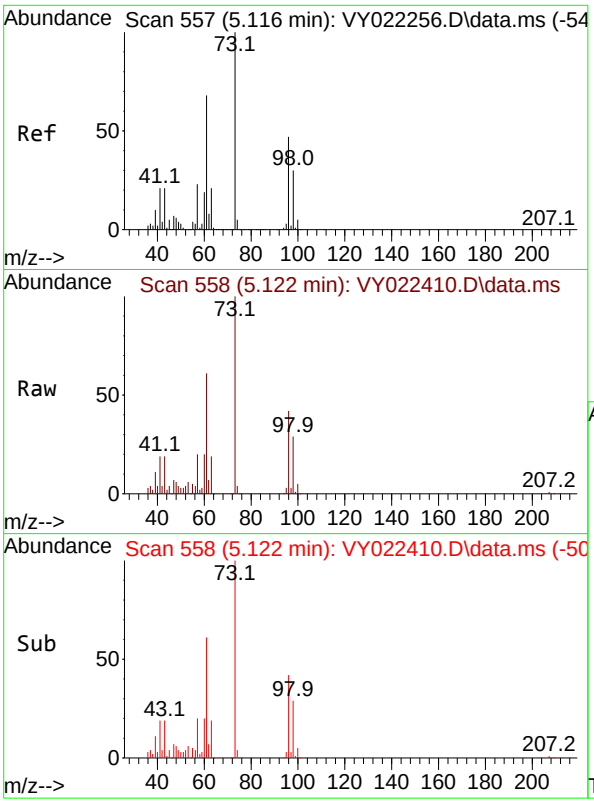


#18
Methyl Acetate
Concen: 16.894 ug/l
RT: 4.391 min Scan# 438
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 43 Resp: 23571

Ion	Ratio	Lower	Upper
43	100		
74	25.9	18.2	27.4



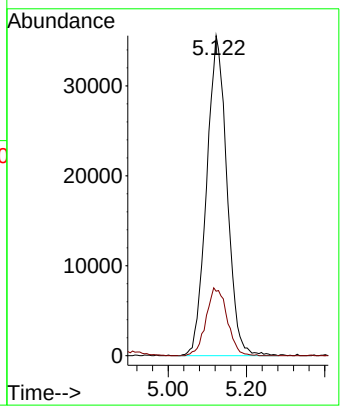


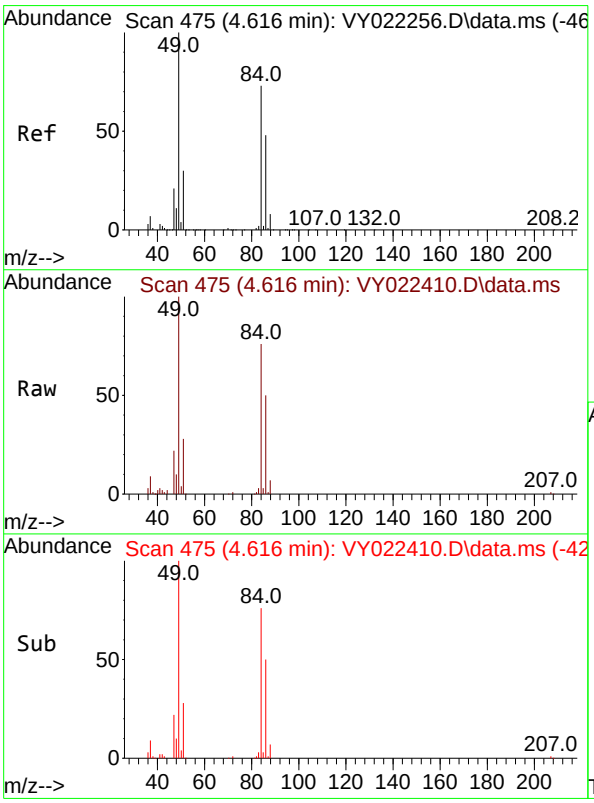
#19
Methyl tert-butyl Ether
Concen: 20.183 ug/l
RT: 5.122 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

Tgt Ion: 73 Resp: 128547

Ion	Ratio	Lower	Upper
73	100		
57	20.2	18.6	28.0

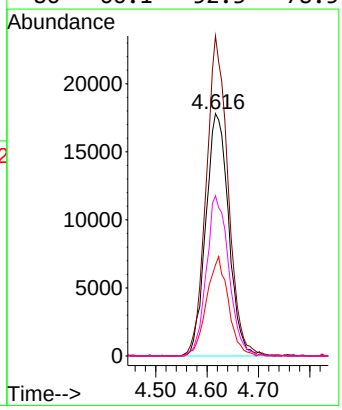


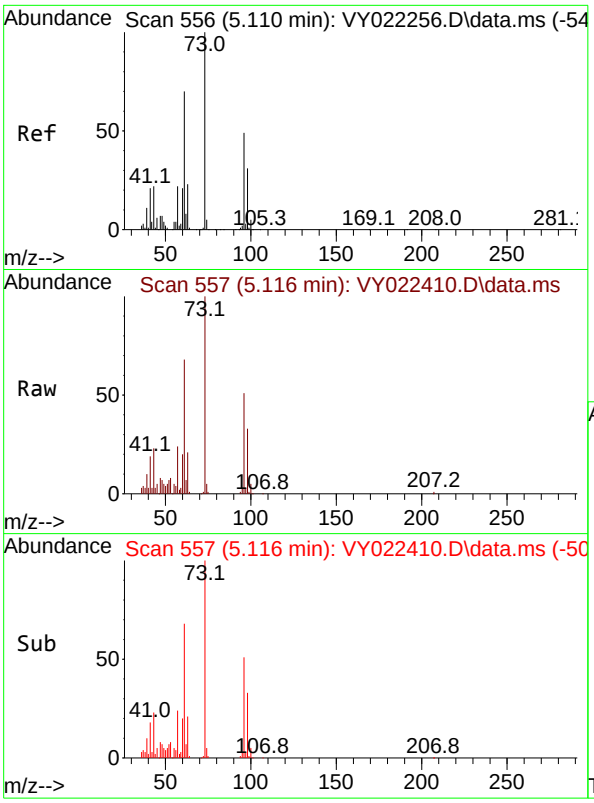


#20
Methylene Chloride
Concen: 19.246 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.000 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 84 Resp: 55034

Ion	Ratio	Lower	Upper
84	100		
49	132.0	109.6	164.4
51	37.6	32.4	48.6
86	66.1	52.3	78.5



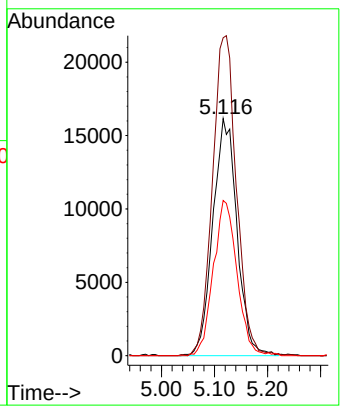


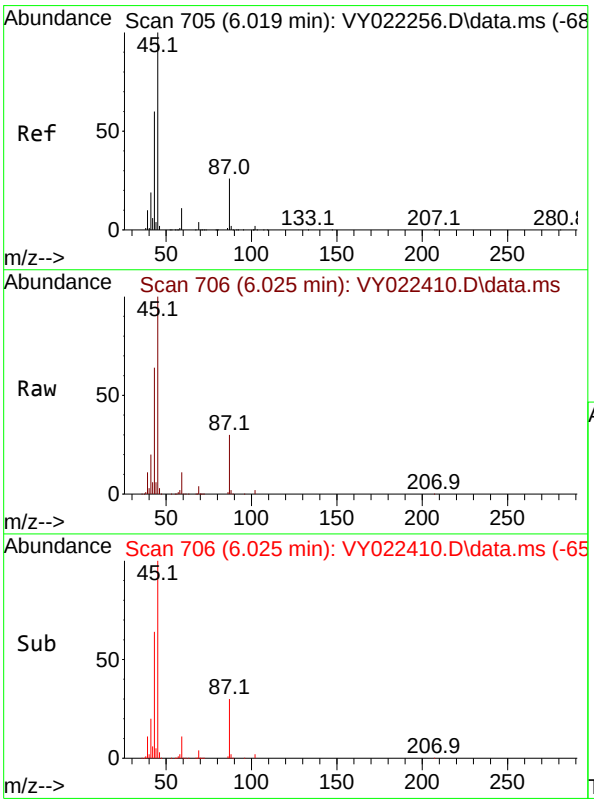
#21
trans-1,2-Dichloroethene
Concen: 20.021 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

Tgt Ion: 96 Resp: 51046

Ion	Ratio	Lower	Upper
96	100		
61	134.1	113.4	170.0
98	65.5	50.9	76.3

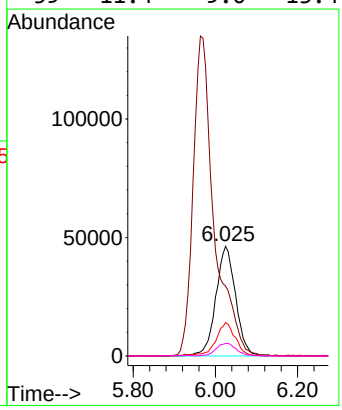


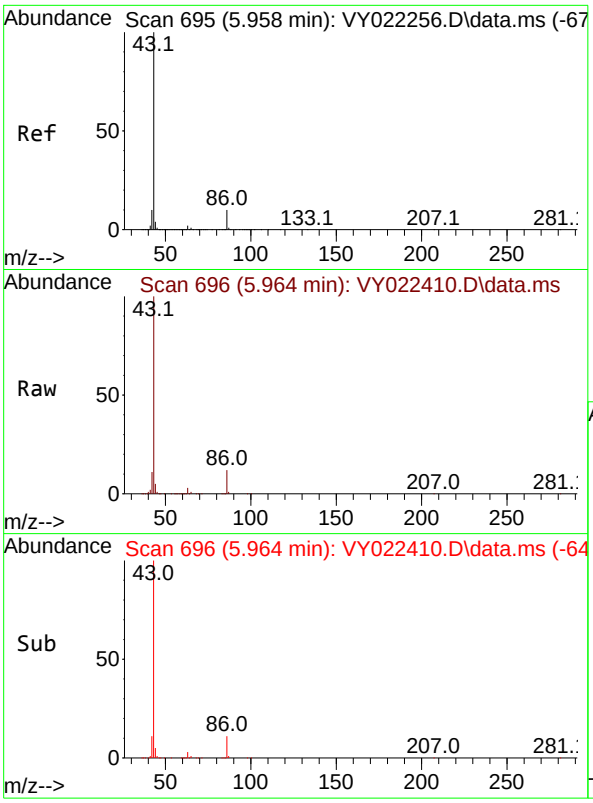


#22
Diisopropyl ether
Concen: 18.055 ug/l
RT: 6.025 min Scan# 706
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 45 Resp: 154423

Ion	Ratio	Lower	Upper
45	100		
43	63.4	48.2	72.2
87	30.4	21.4	32.0
59	11.4	9.0	13.4



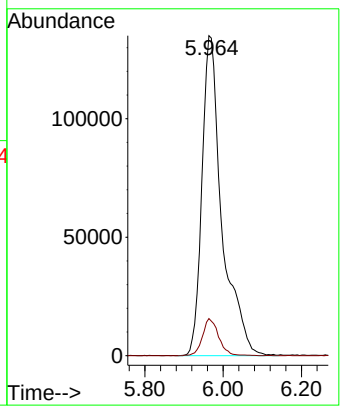


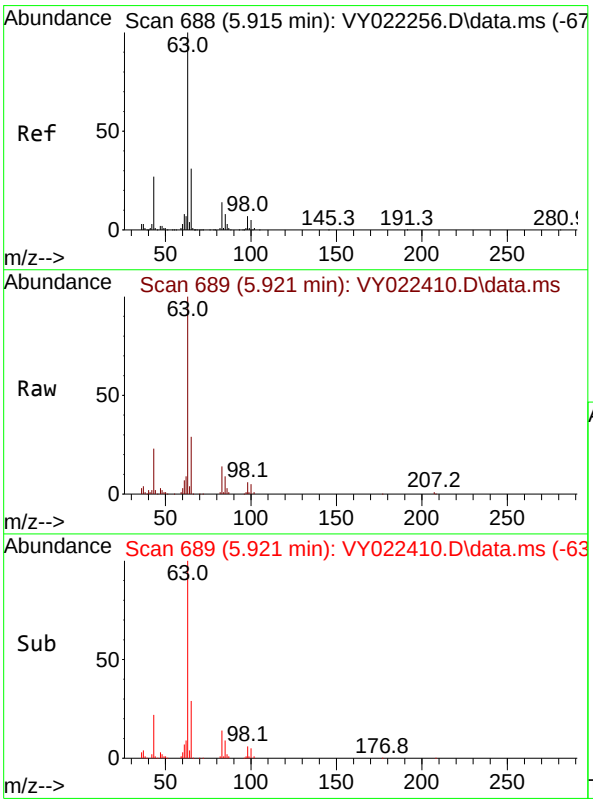
#23
Vinyl Acetate
Concen: 92.684 ug/l
RT: 5.964 min Scan# 6
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

Tgt Ion: 43 Resp: 478913

Ion	Ratio	Lower	Upper
43	100		
86	11.6	7.8	11.8

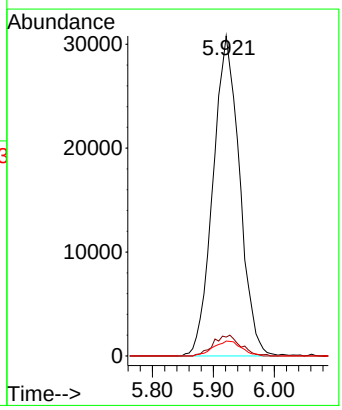


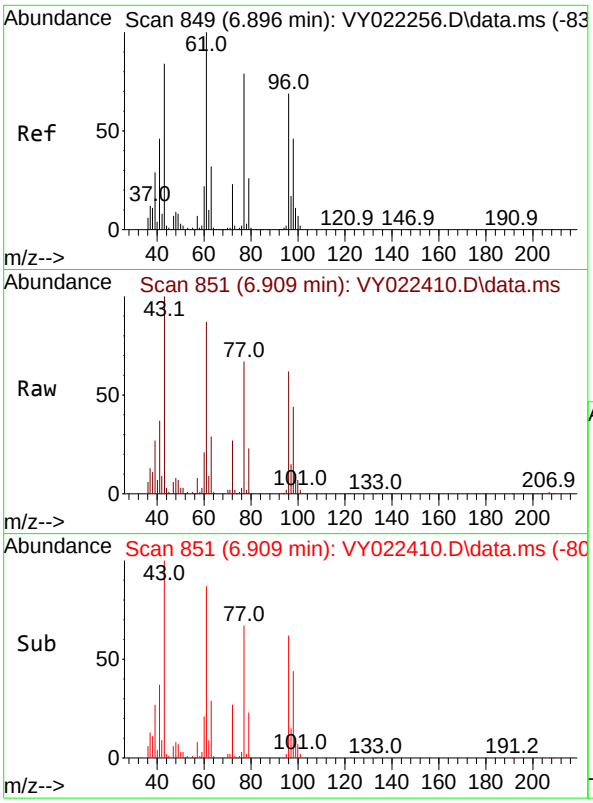


#24
1,1-Dichloroethane
Concen: 19.513 ug/l
RT: 5.921 min Scan# 689
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 63 Resp: 93240

Ion	Ratio	Lower	Upper
63	100		
98	5.9	3.5	10.5
100	4.7	2.4	7.2



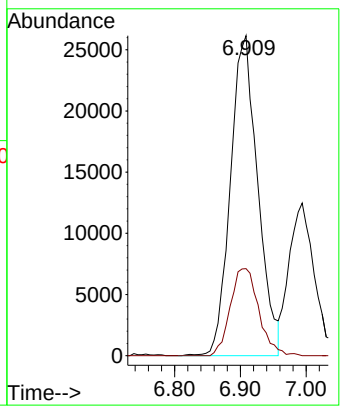


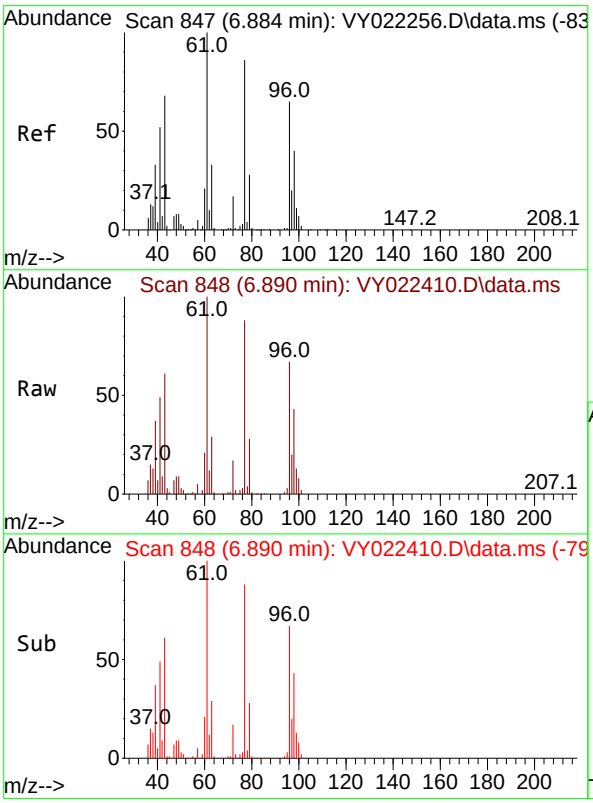
#25
2-Butanone
Concen: 102.161 ug/l
RT: 6.909 min Scan# 8
Delta R.T. 0.012 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

Tgt Ion: 43 Resp: 75621

Ion	Ratio	Lower	Upper
43	100		
72	27.2	22.1	33.1

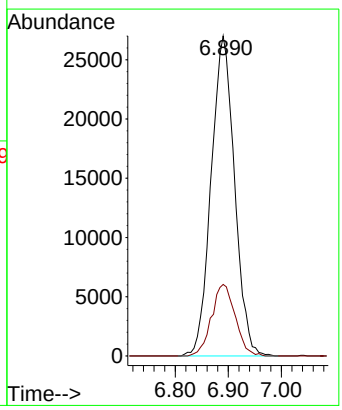


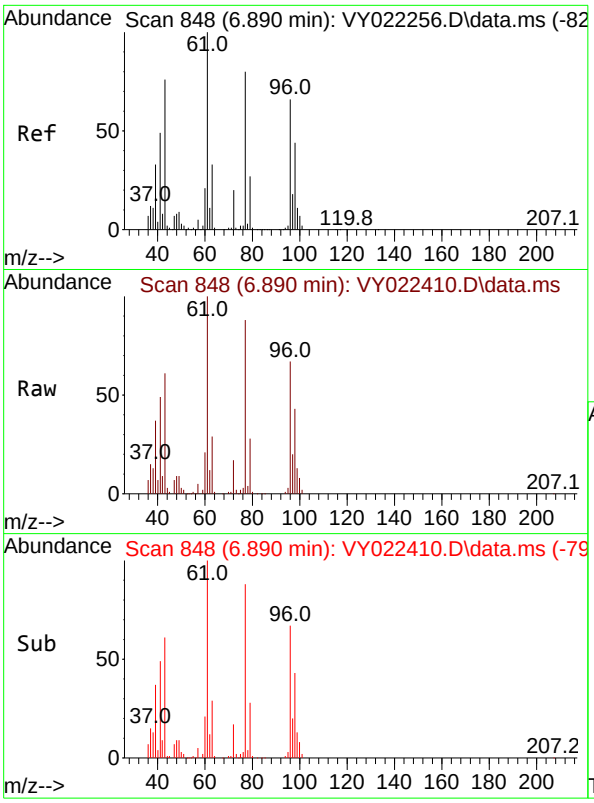


#26
2,2-Dichloropropane
Concen: 19.458 ug/l
RT: 6.890 min Scan# 848
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 77 Resp: 82698

Ion	Ratio	Lower	Upper
77	100		
97	22.7	11.2	33.5



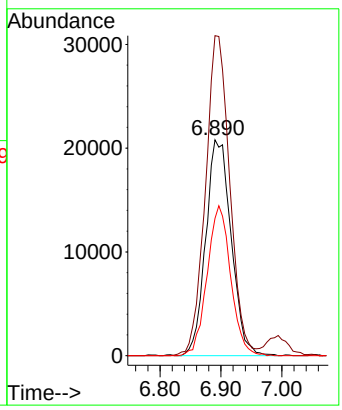


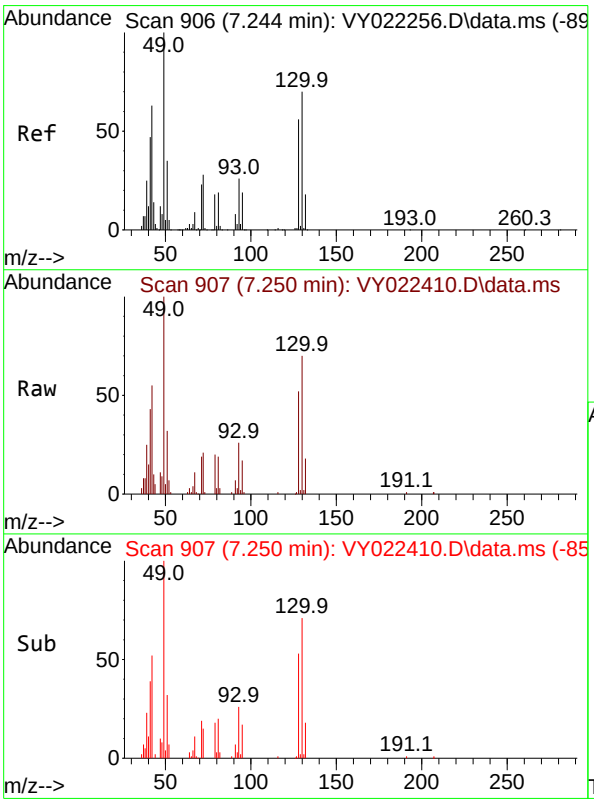
#27
cis-1,2-Dichloroethene
Concen: 20.533 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

Tgt Ion: 96 Resp: 60410

Ion	Ratio	Lower	Upper
96	100		
61	141.8	0.0	302.6
98	64.2	0.0	128.8

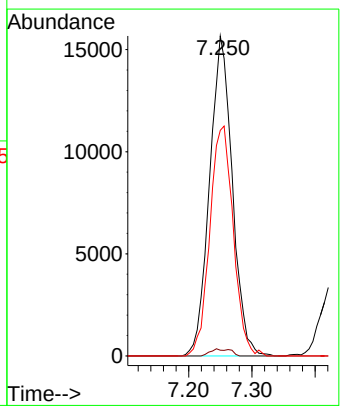


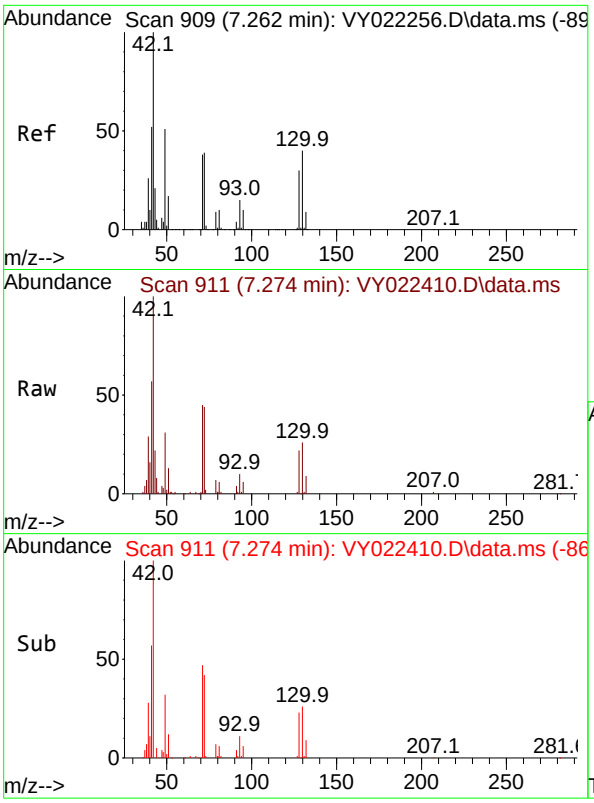


#28
Bromochloromethane
Concen: 19.174 ug/l
RT: 7.250 min Scan# 907
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 49 Resp: 39080

Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	3.6
130	74.1	54.7	82.1



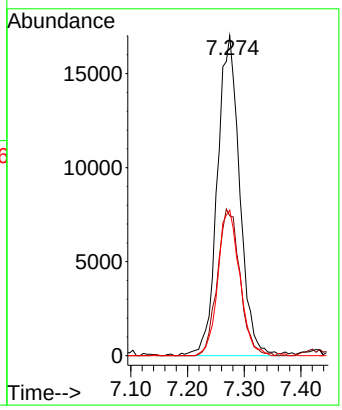


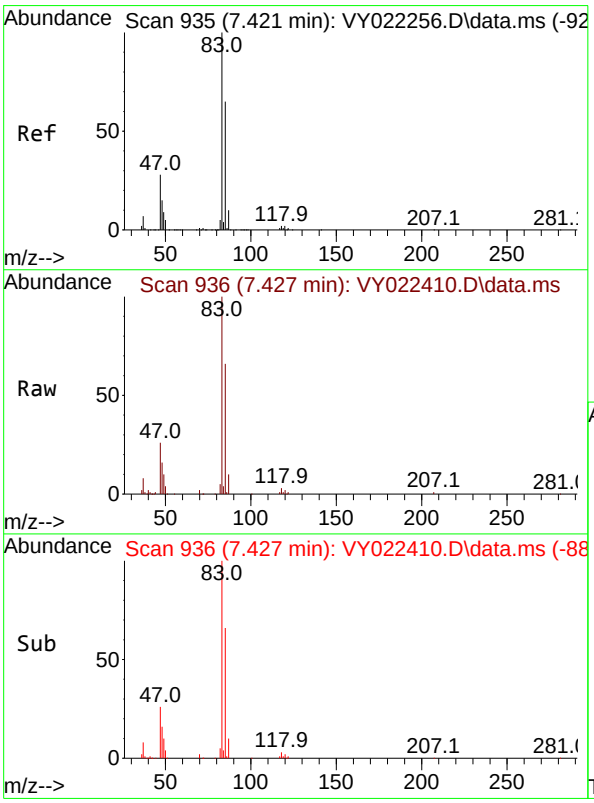
#29
Tetrahydrofuran
Concen: 97.632 ug/l
RT: 7.274 min Scan# 91
Delta R.T. 0.012 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

Tgt Ion: 42 Resp: 46494

Ion	Ratio	Lower	Upper
42	100		
72	46.2	33.8	50.6
71	44.5	31.5	47.3

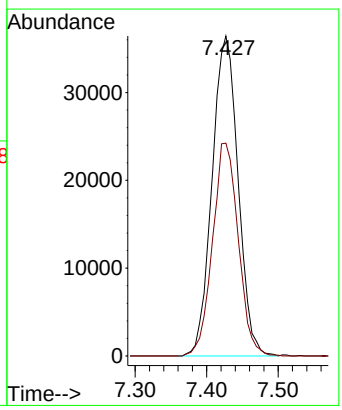


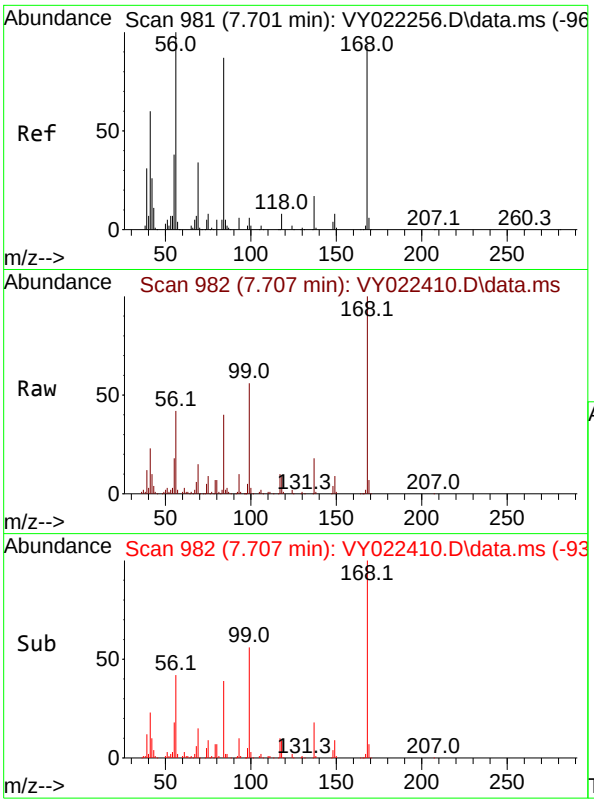


#30
Chloroform
Concen: 20.062 ug/l
RT: 7.427 min Scan# 936
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 83 Resp: 91951

Ion	Ratio	Lower	Upper
83	100		
85	66.5	51.8	77.8



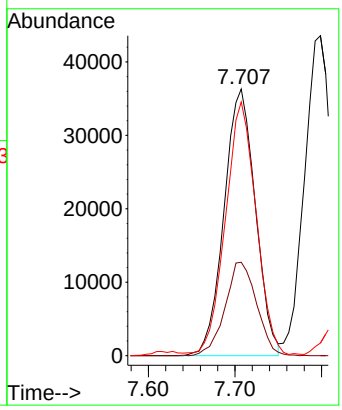


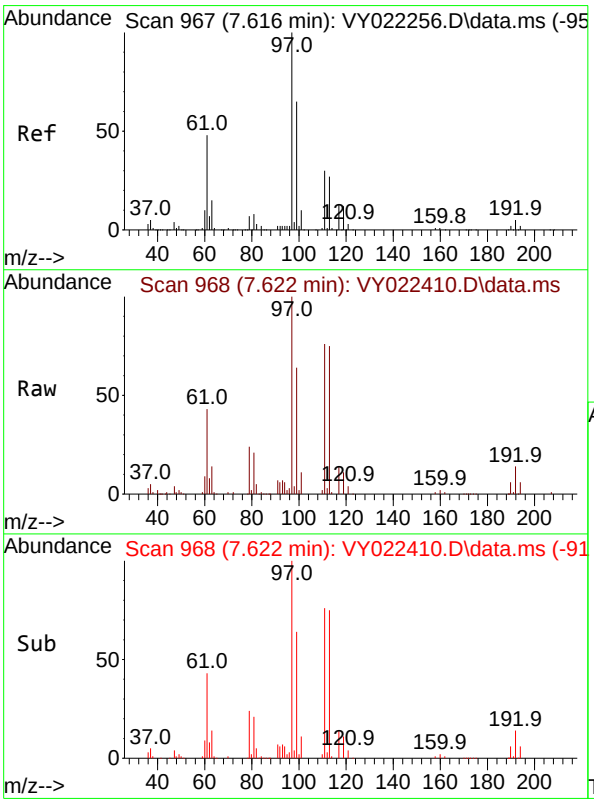
#31
Cyclohexane
Concen: 19.115 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

Tgt Ion: 56 Resp: 91262

Ion	Ratio	Lower	Upper
56	100		
69	35.0	27.4	41.2
84	94.1	70.0	105.0

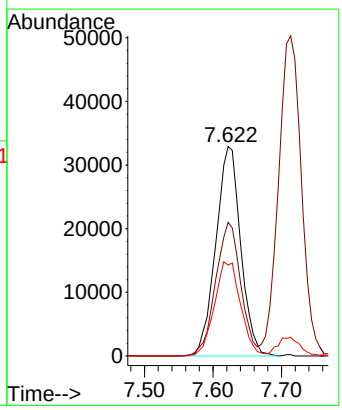


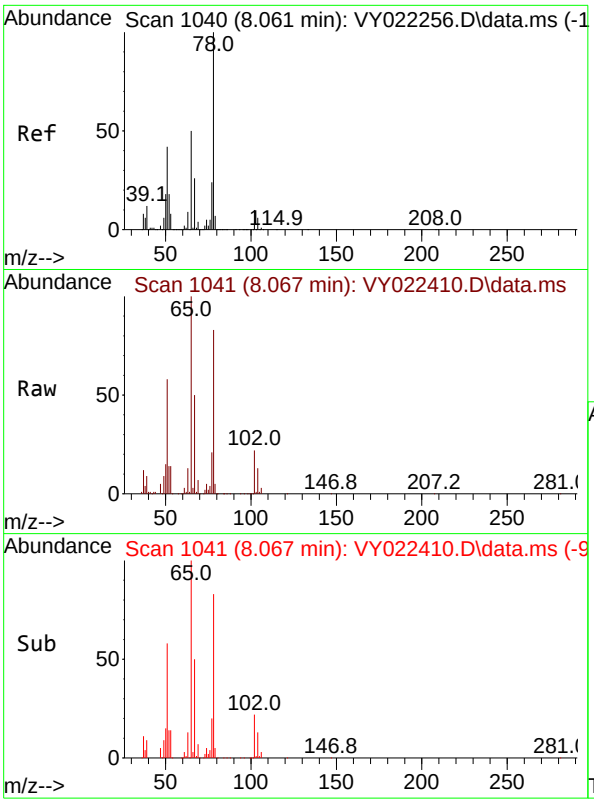


#32
1,1,1-Trichloroethane
Concen: 19.732 ug/l
RT: 7.622 min Scan# 968
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 97 Resp: 82971

Ion	Ratio	Lower	Upper
97	100		
99	64.3	51.4	77.0
61	47.2	38.1	57.1



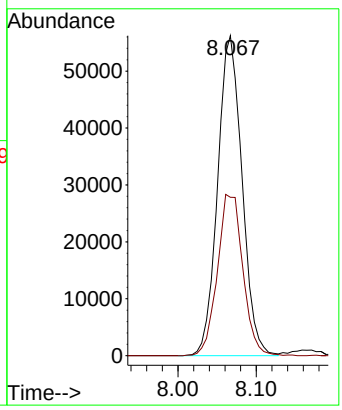


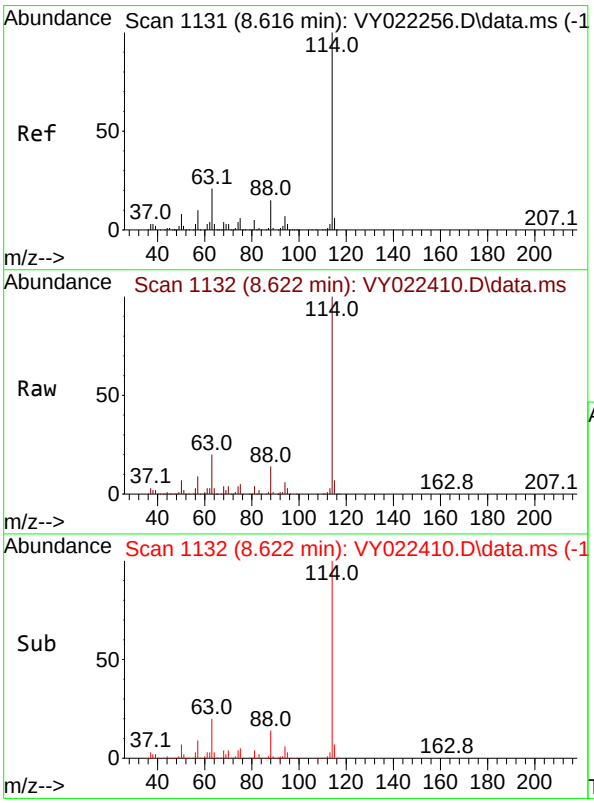
#33
1,2-Dichloroethane-d4
Concen: 51.588 ug/l
RT: 8.067 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

Tgt Ion: 65 Resp: 121751

Ion	Ratio	Lower	Upper
65	100		
67	52.7	0.0	104.6

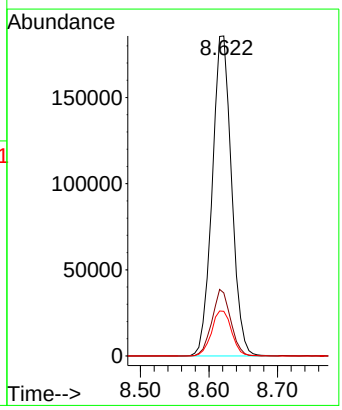


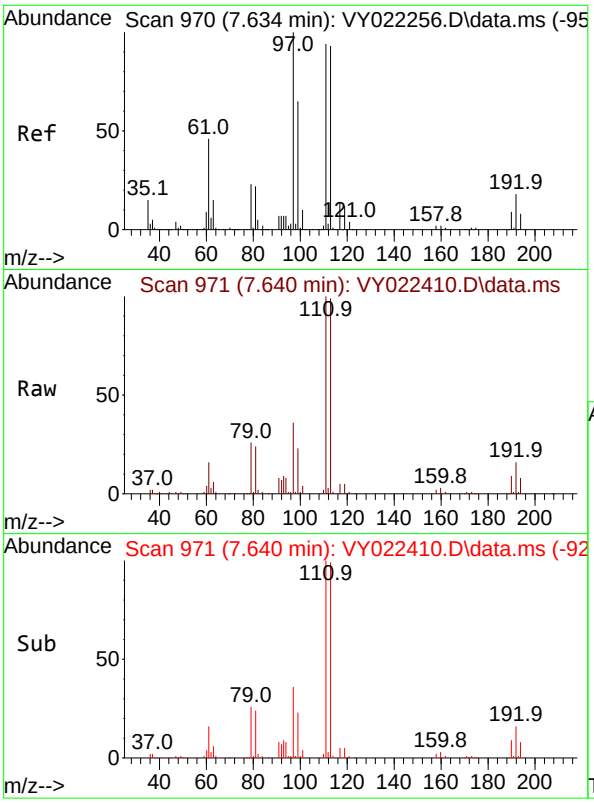


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.622 min Scan# 1132
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion:114 Resp: 364015

Ion	Ratio	Lower	Upper
114	100		
63	19.7	0.0	41.0
88	14.0	0.0	29.4



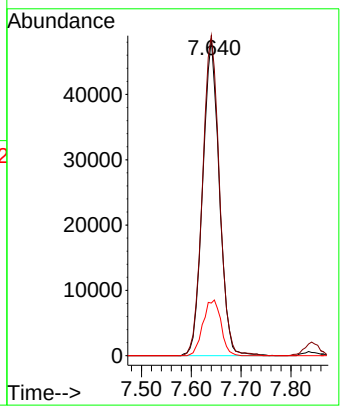


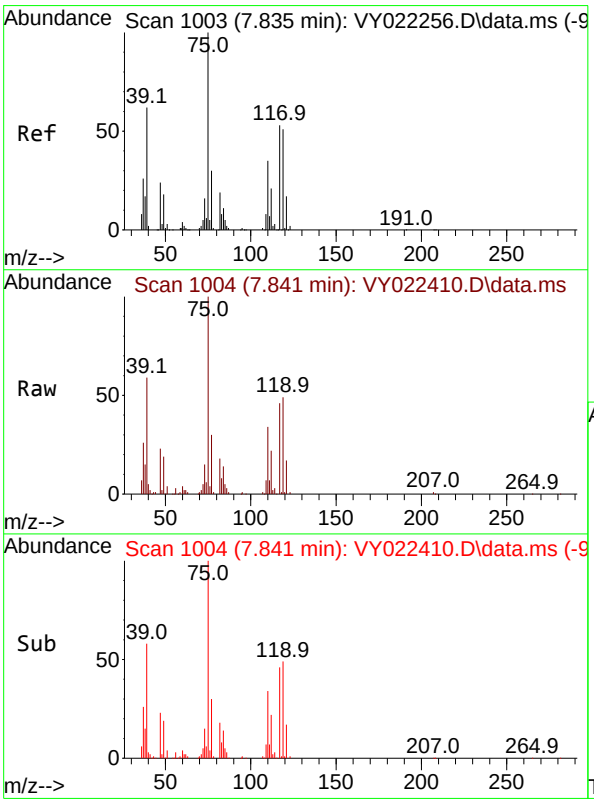
#35
Dibromofluoromethane
Concen: 51.387 ug/l
RT: 7.640 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

Tgt Ion:113 Resp: 111647

Ion	Ratio	Lower	Upper
113	100		
111	103.4	82.6	123.8
192	19.1	15.2	22.8

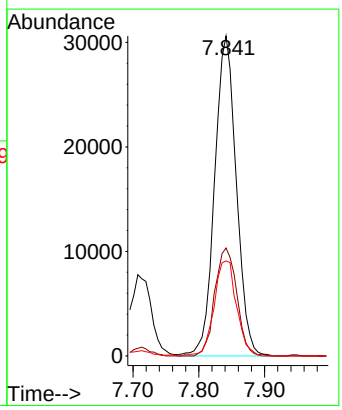


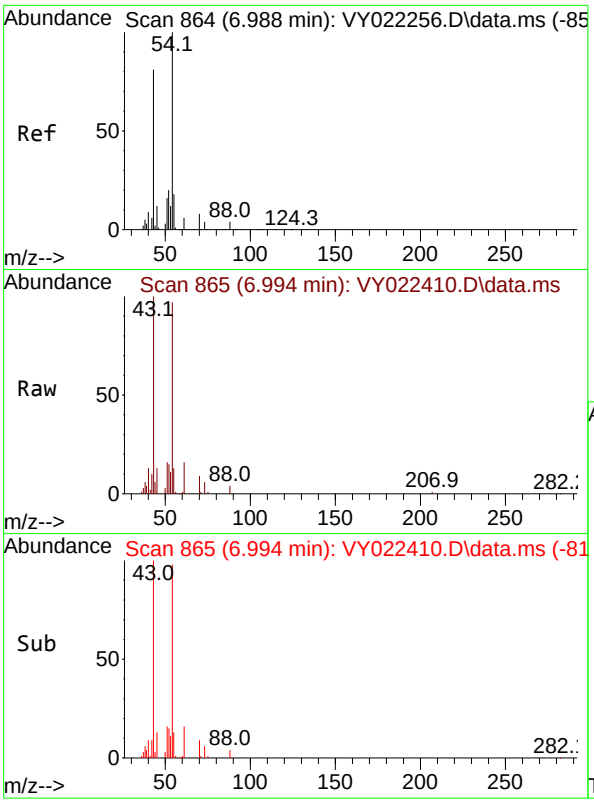


#36
1,1-Dichloropropene
Concen: 19.634 ug/l
RT: 7.841 min Scan# 1004
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 75 Resp: 70261

Ion	Ratio	Lower	Upper
75	100		
110	34.2	16.6	49.8
77	30.8	24.6	37.0



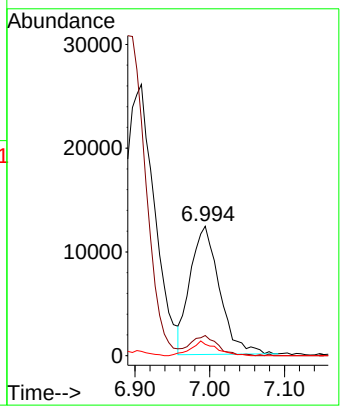


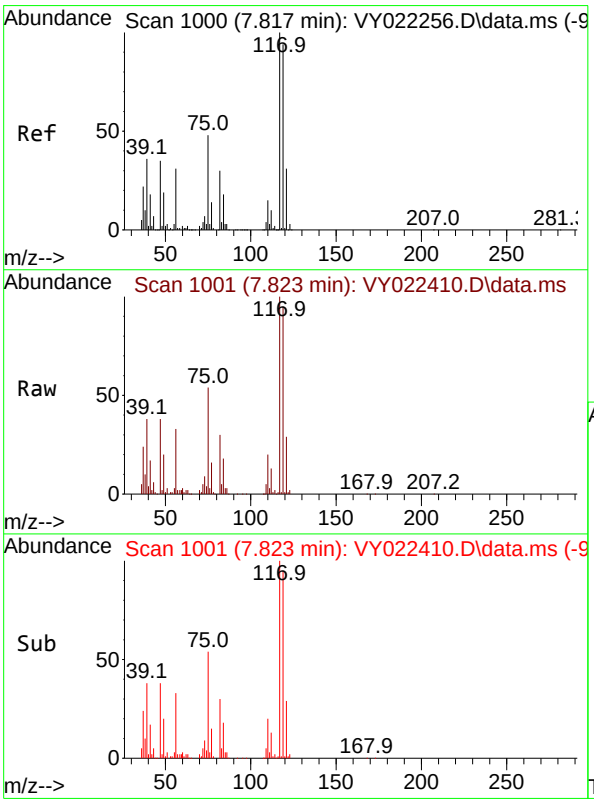
#37
Ethyl Acetate
Concen: 19.559 ug/l
RT: 6.994 min Scan# 8
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

Tgt Ion: 43 Resp: 33678

Ion	Ratio	Lower	Upper
43	100		
61	14.9	10.2	15.2
70	9.6	7.6	11.4

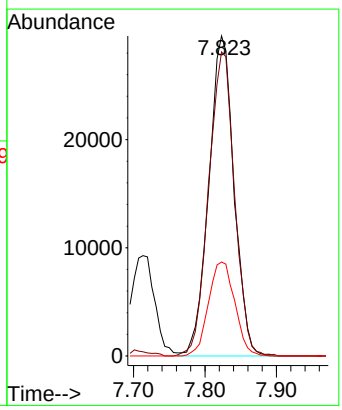


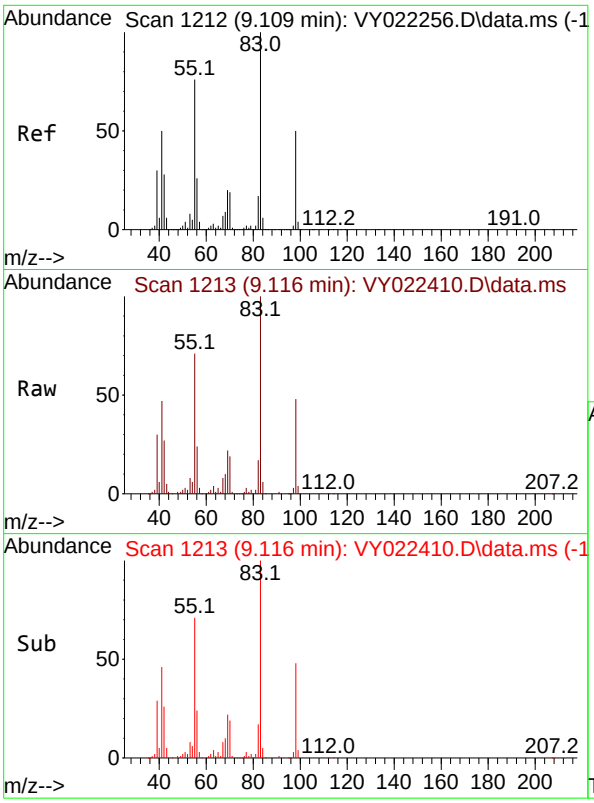


#38
Carbon Tetrachloride
Concen: 19.562 ug/l
RT: 7.823 min Scan# 1001
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion:117 Resp: 72463

Ion	Ratio	Lower	Upper
117	100		
119	95.0	75.3	112.9
121	29.3	24.7	37.1



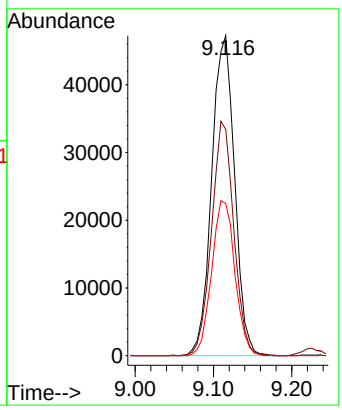


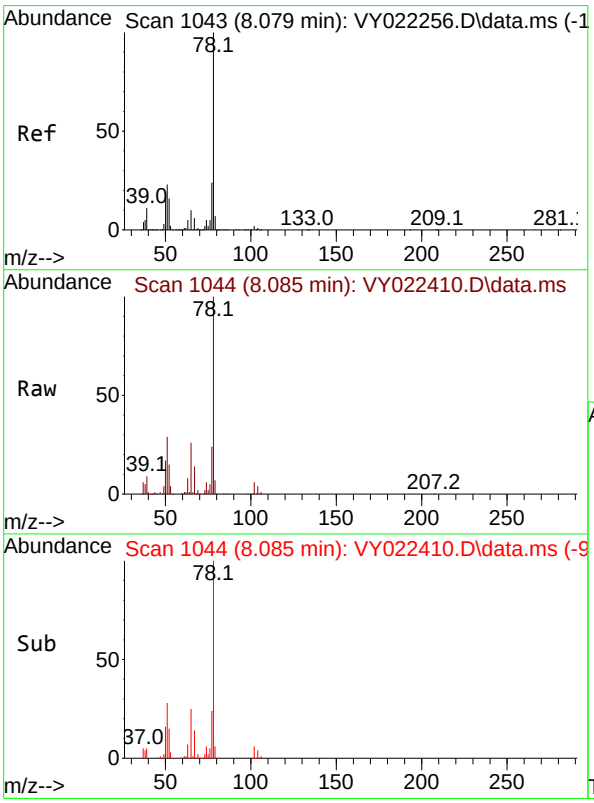
#39
Methylcyclohexane
Concen: 19.953 ug/l
RT: 9.116 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

Tgt Ion: 83 Resp: 95930

Ion	Ratio	Lower	Upper
83	100		
55	70.7	60.6	90.8
98	47.6	40.0	60.0

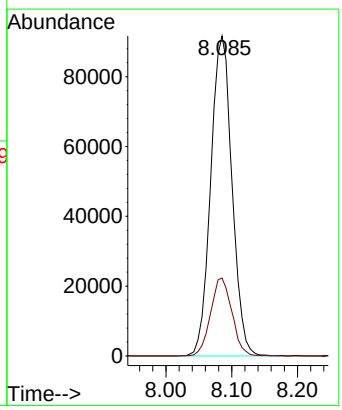


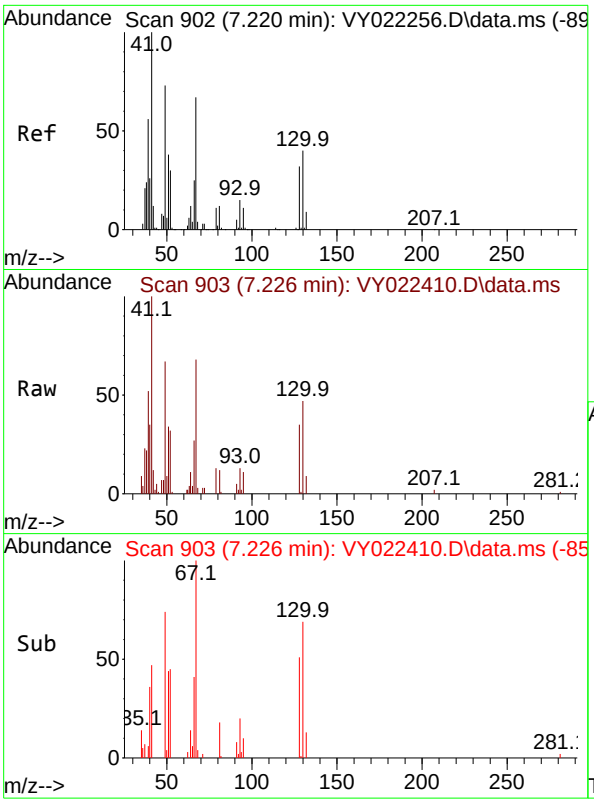


#40
Benzene
Concen: 19.434 ug/l
RT: 8.085 min Scan# 1044
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 78 Resp: 206176

Ion	Ratio	Lower	Upper
78	100		
77	24.3	18.9	28.3



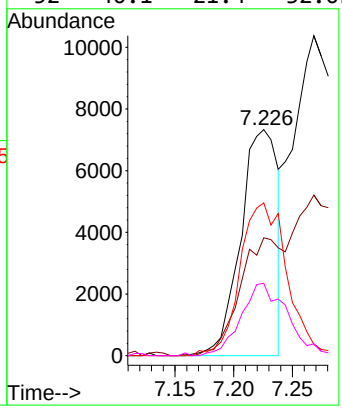


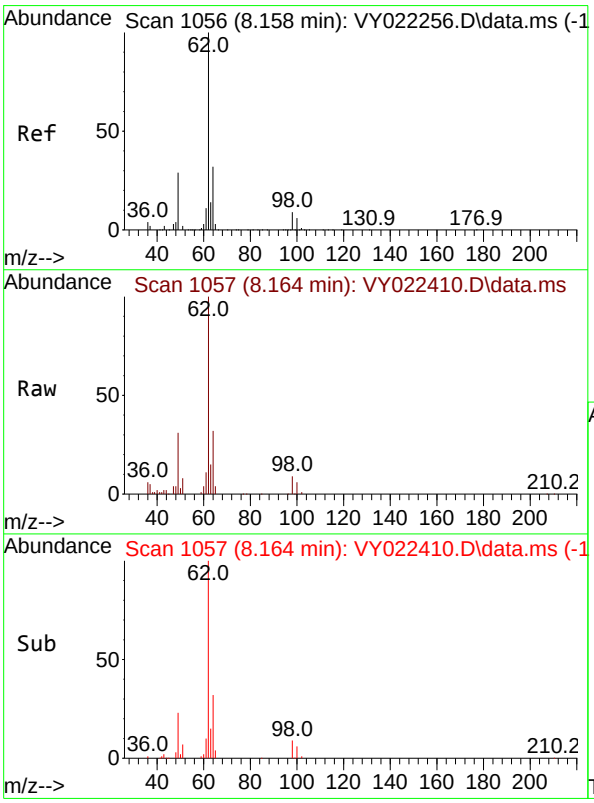
#41
Methacrylonitrile
Concen: 14.028 ug/l
RT: 7.226 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

Tgt Ion: 41 Resp: 16022

Ion	Ratio	Lower	Upper
41	100		
39	62.4	39.1	58.7#
67	86.7	47.1	70.7#
52	40.1	21.4	32.0#

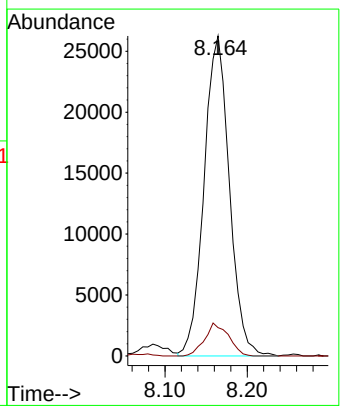


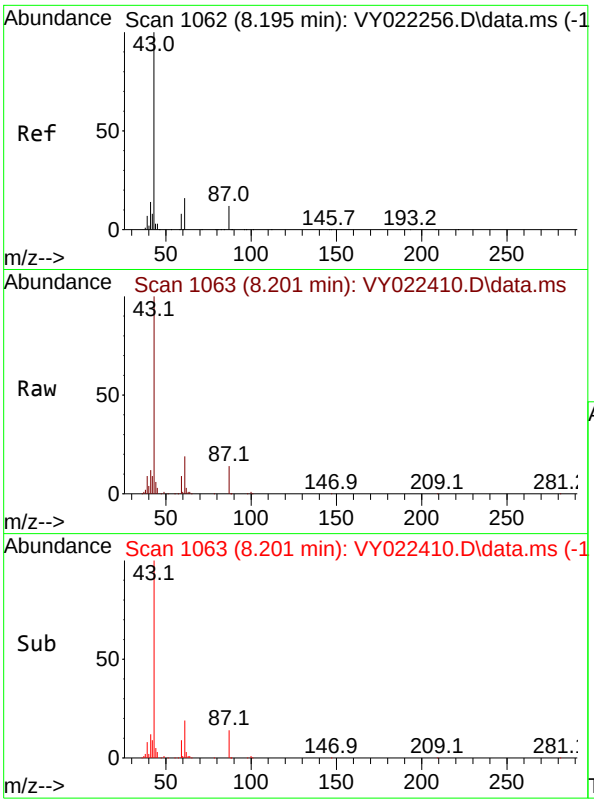


#42
1,2-Dichloroethane
Concen: 19.599 ug/l
RT: 8.164 min Scan# 1057
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 62 Resp: 56227

Ion	Ratio	Lower	Upper
62	100		
98	9.7	0.0	18.4



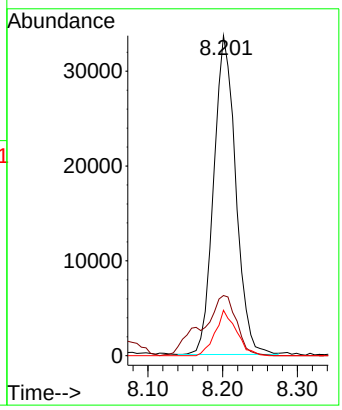


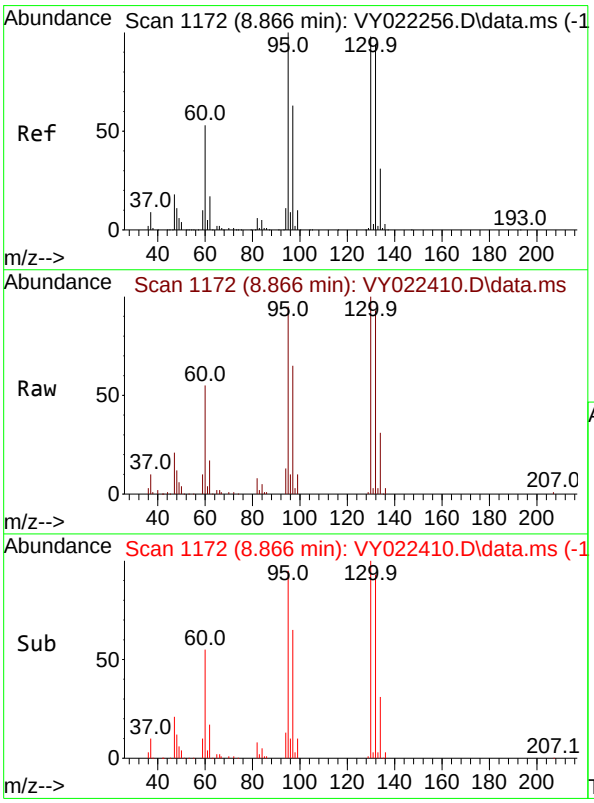
#43
Isopropyl Acetate
Concen: 18.381 ug/l
RT: 8.201 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

Tgt Ion: 43 Resp: 69023

Ion	Ratio	Lower	Upper
43	100		
61	29.5	15.1	22.7#
87	13.7	9.7	14.5

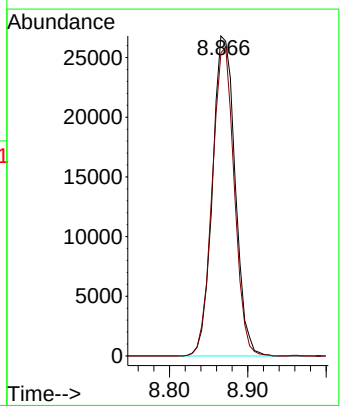


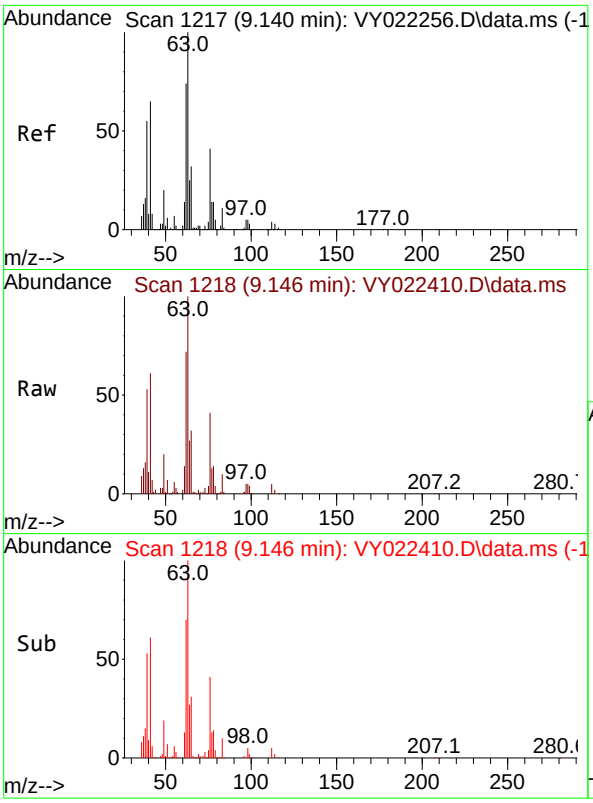


#44
Trichloroethene
Concen: 20.387 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. 0.000 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion:130 Resp: 53777

Ion	Ratio	Lower	Upper
130	100		
95	94.6	0.0	204.8



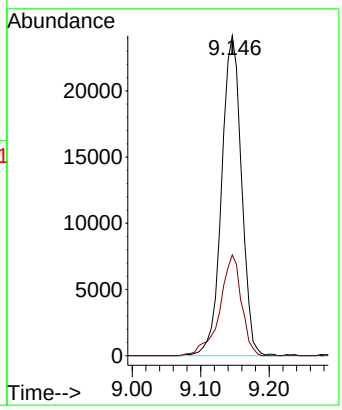


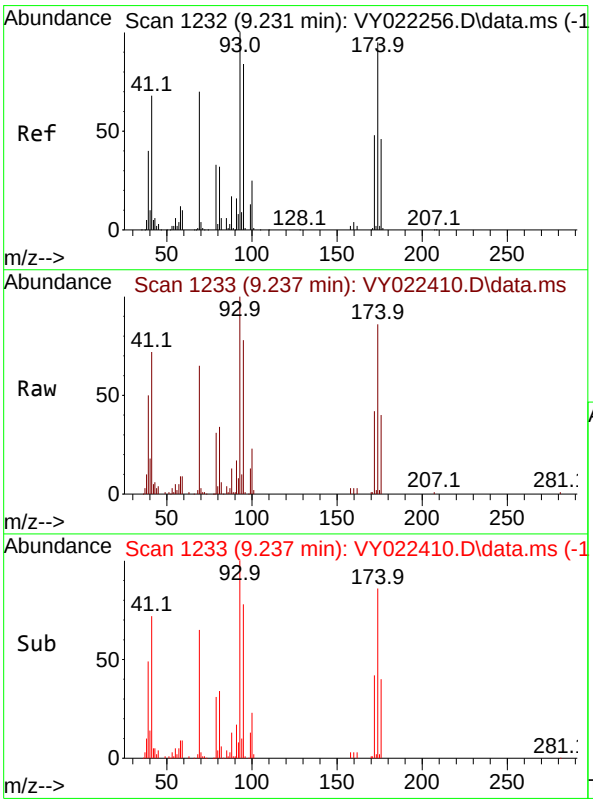
#45
1,2-Dichloropropane
Concen: 19.023 ug/l
RT: 9.146 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

Tgt Ion: 63 Resp: 48654

Ion	Ratio	Lower	Upper
63	100		
65	31.5	25.7	38.5

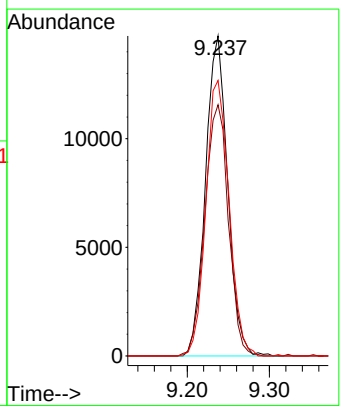


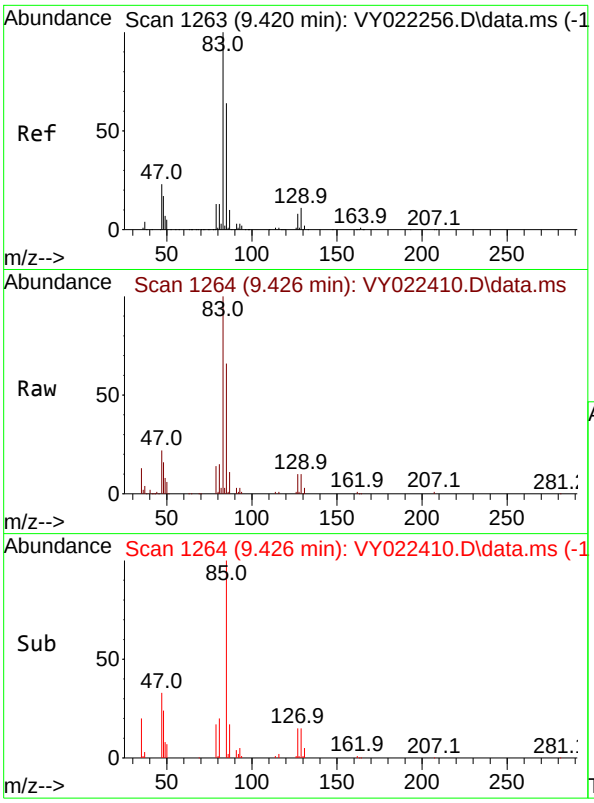


#46
Dibromomethane
Concen: 20.018 ug/l
RT: 9.237 min Scan# 1233
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 93 Resp: 27615

Ion	Ratio	Lower	Upper
93	100		
95	83.3	65.2	97.8
174	89.9	74.3	111.5



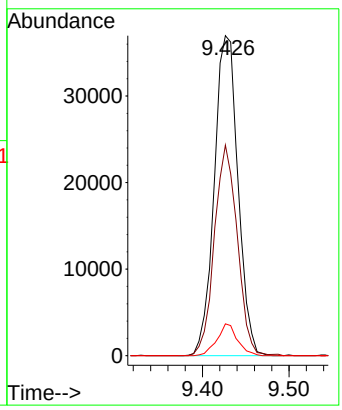


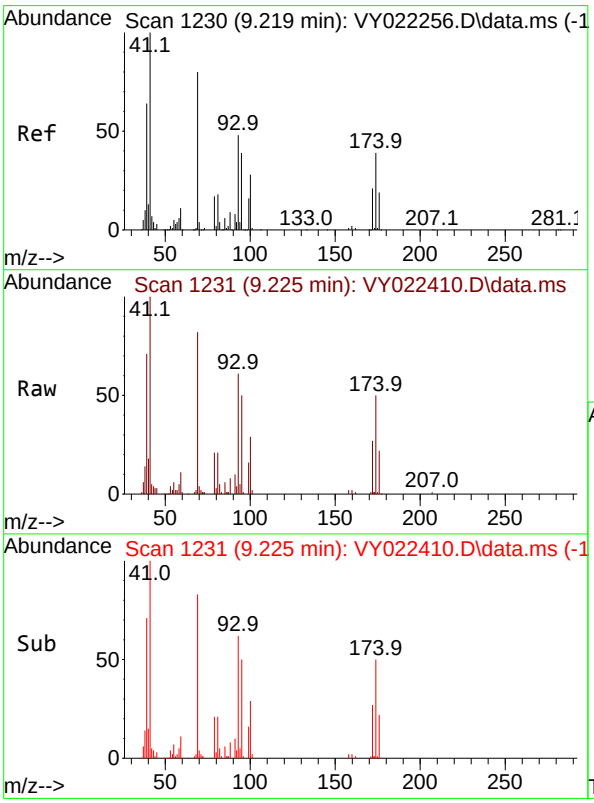
#47
Bromodichloromethane
Concen: 19.662 ug/l
RT: 9.426 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

Tgt Ion: 83 Resp: 70365

Ion	Ratio	Lower	Upper
83	100		
85	65.8	51.1	76.7
127	9.9	6.6	10.0

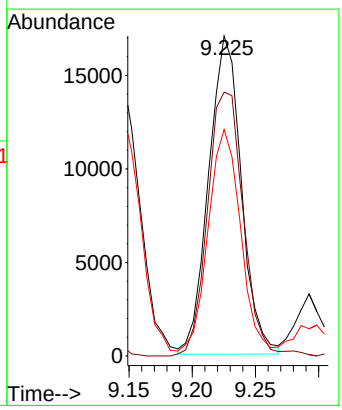


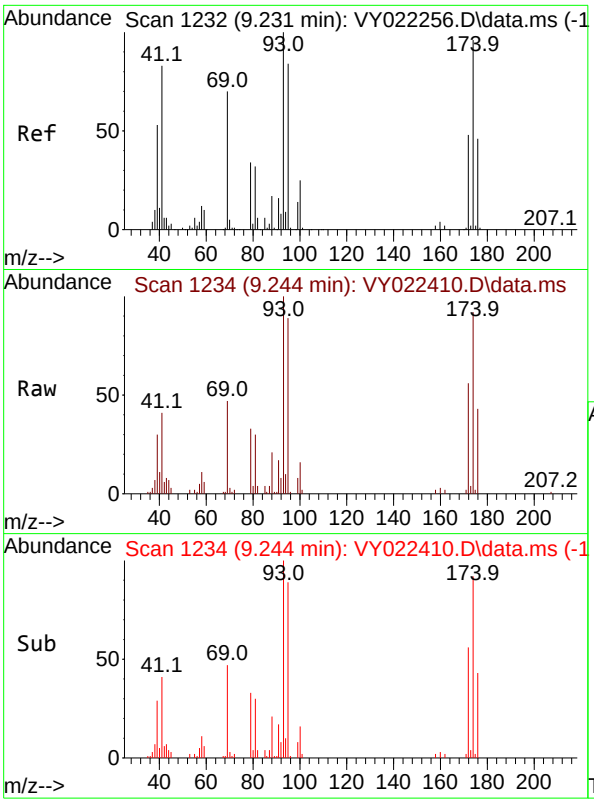


#48
Methyl methacrylate
Concen: 17.382 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 41 Resp: 30525

Ion	Ratio	Lower	Upper
41	100		
69	90.7	63.5	95.3
39	68.5	50.8	76.2



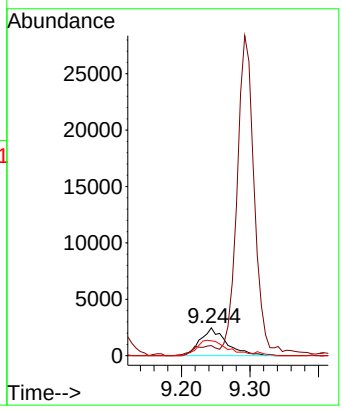


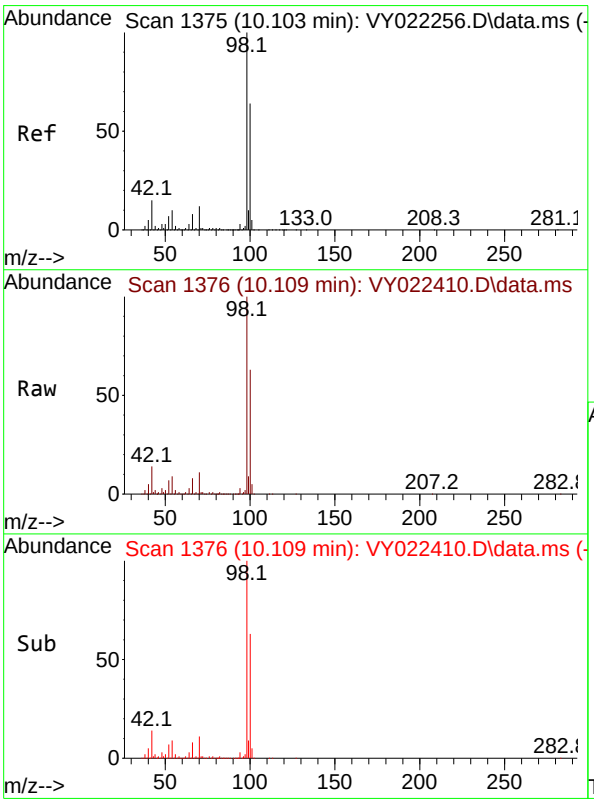
#49
1,4-Dioxane
Concen: 420.419 ug/l
RT: 9.244 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

Tgt Ion: 88 Resp: 6552

Ion	Ratio	Lower	Upper
88	100		
43	33.7	28.5	42.7
58	63.2	61.4	92.2

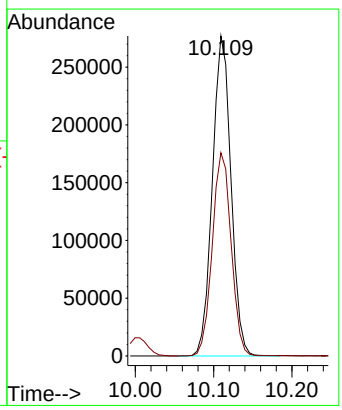


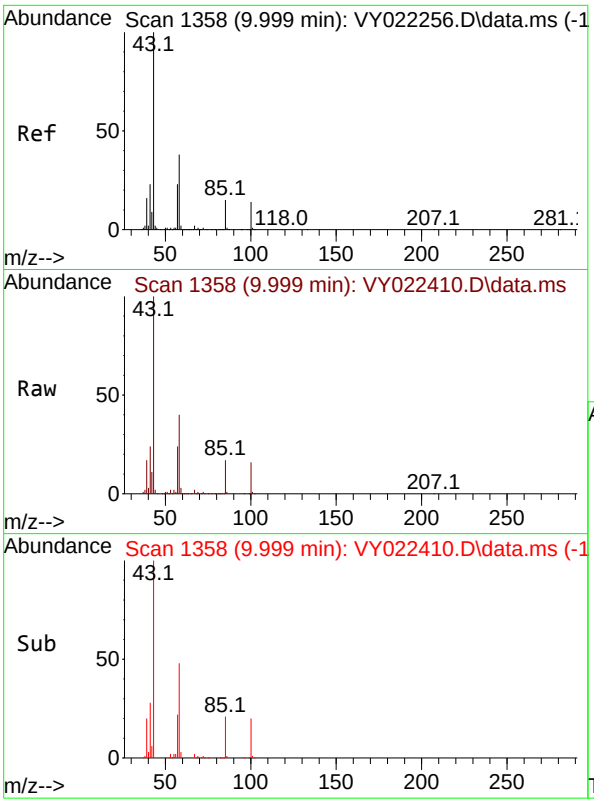


#50
Toluene-d8
Concen: 51.320 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 98 Resp: 456658

Ion	Ratio	Lower	Upper
98	100		
100	64.4	51.8	77.8



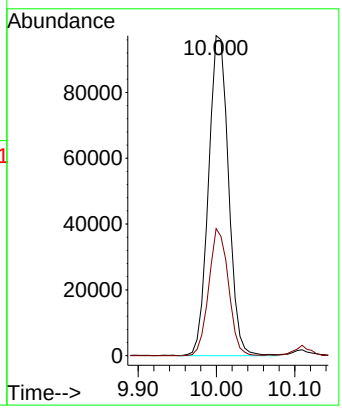


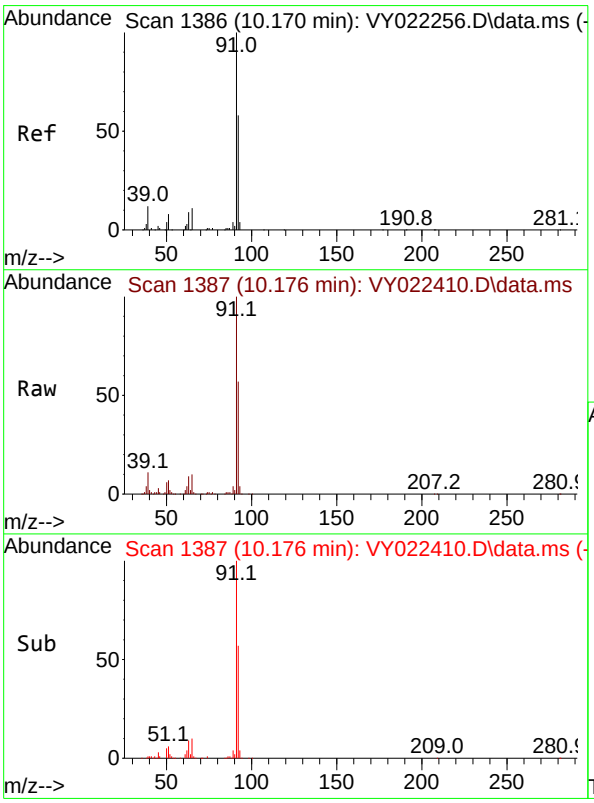
#51
4-Methyl-2-Pentanone
Concen: 93.776 ug/l
RT: 9.999 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

Tgt Ion: 43 Resp: 172786

Ion	Ratio	Lower	Upper
43	100		
58	39.0	29.4	44.2

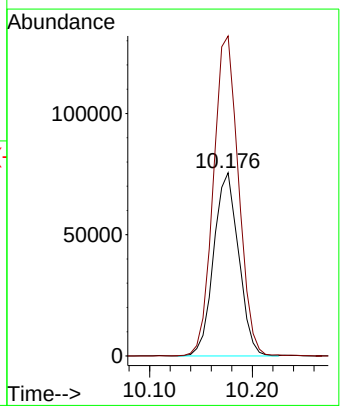


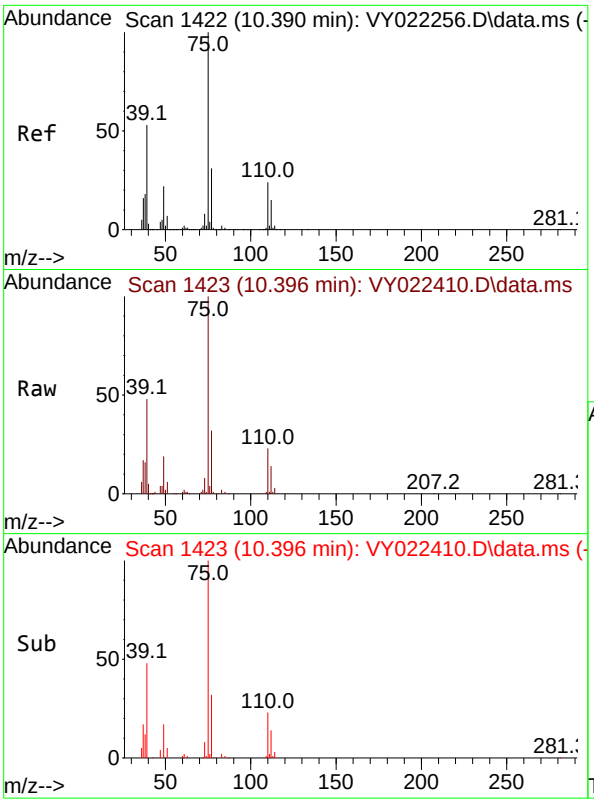


#52
Toluene
Concen: 18.928 ug/l
RT: 10.176 min Scan# 1387
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 92 Resp: 127157

Ion	Ratio	Lower	Upper
92	100		
91	176.4	139.1	208.7



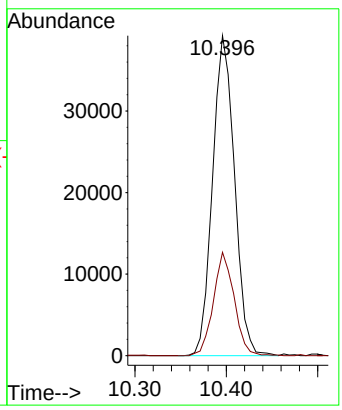


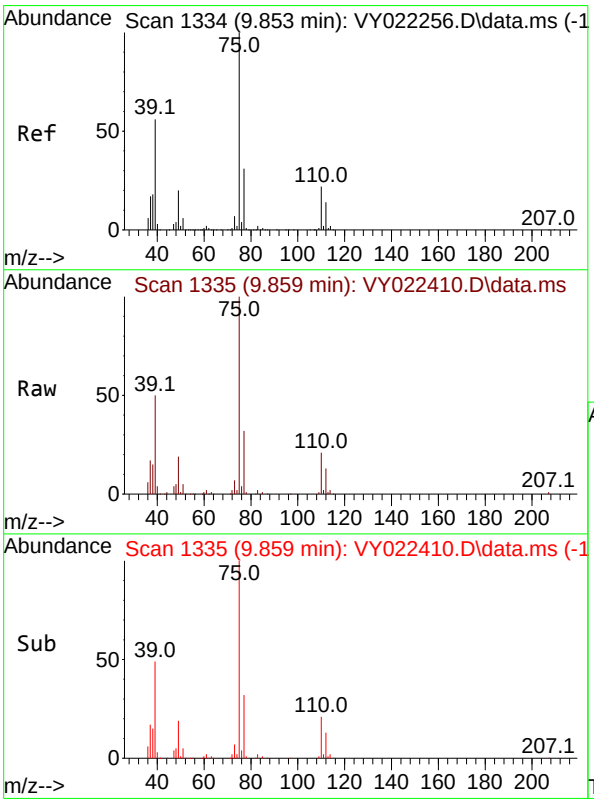
#53
t-1,3-Dichloropropene
Concen: 18.778 ug/l
RT: 10.396 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

Tgt Ion: 75 Resp: 65585

Ion	Ratio	Lower	Upper
75	100		
77	32.3	25.0	37.6

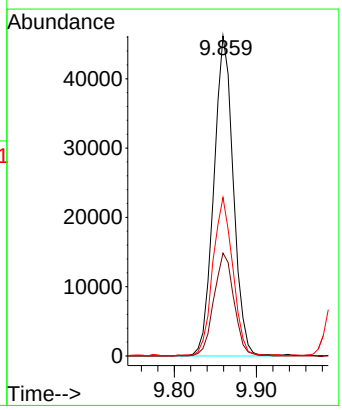


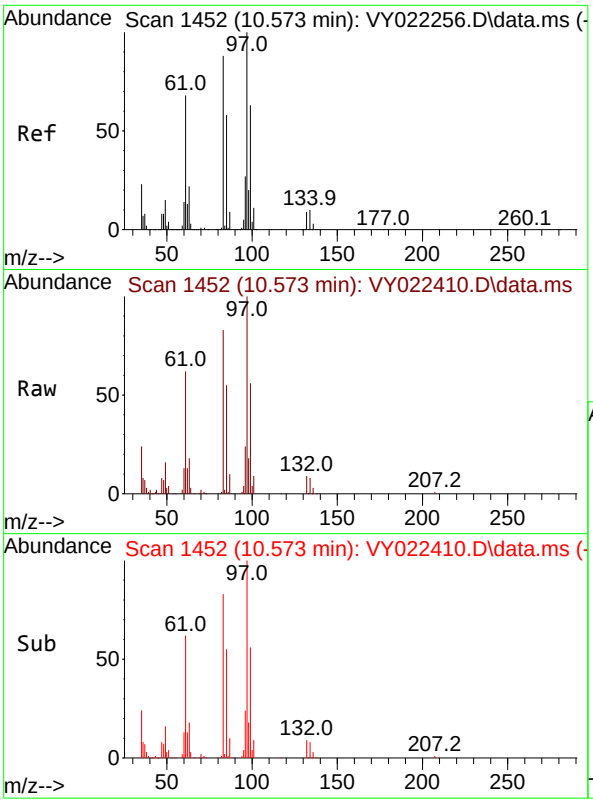


#54
cis-1,3-Dichloropropene
Concen: 18.992 ug/l
RT: 9.859 min Scan# 1335
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 75 Resp: 75996

Ion	Ratio	Lower	Upper
75	100		
77	32.1	25.1	37.7
39	49.3	44.5	66.7



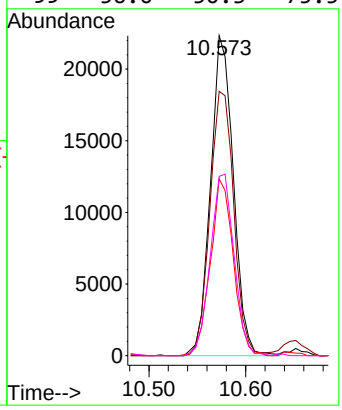


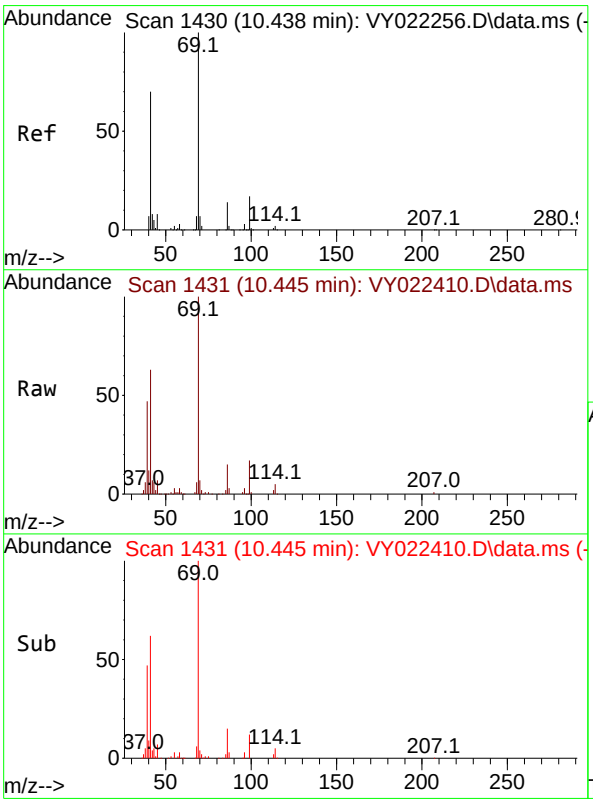
#55
1,1,2-Trichloroethane
Concen: 20.689 ug/l
RT: 10.573 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

Tgt Ion: 97 Resp: 36548

Ion	Ratio	Lower	Upper
97	100		
83	82.6	70.3	105.5
85	55.3	46.2	69.4
99	56.0	50.3	75.5

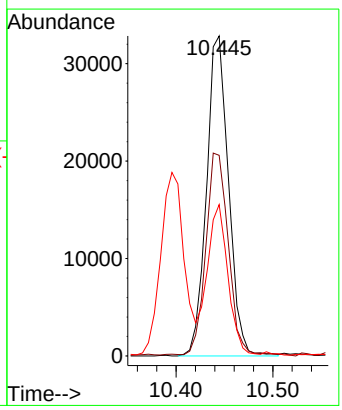


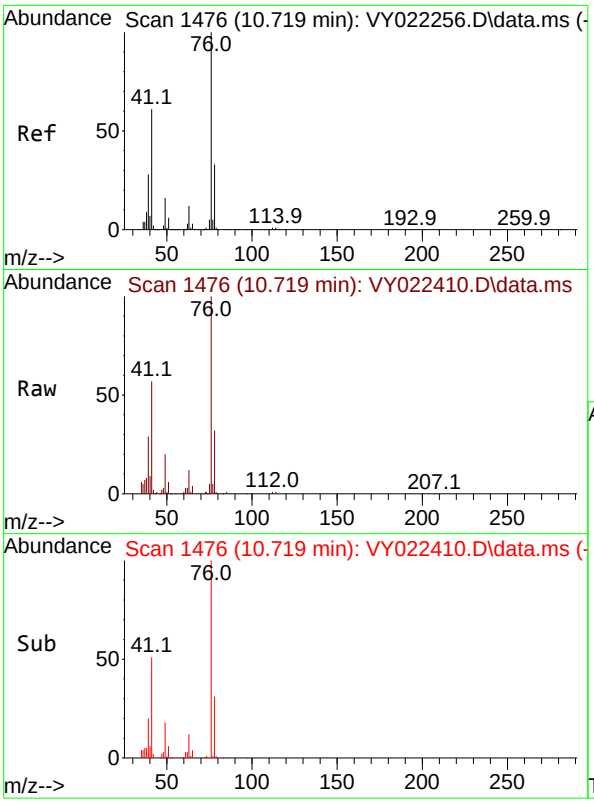


#56
Ethyl methacrylate
Concen: 18.941 ug/l
RT: 10.445 min Scan# 1431
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 69 Resp: 52121

Ion	Ratio	Lower	Upper
69	100		
41	65.8	56.5	84.7
39	44.0	37.1	55.7



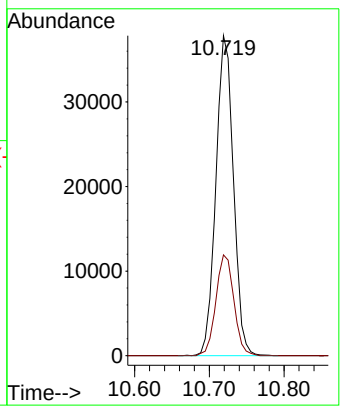


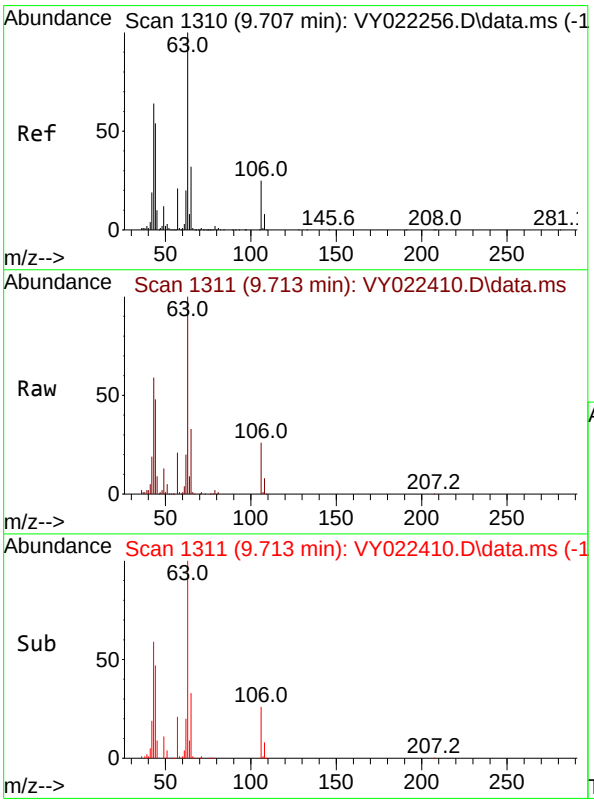
#57
1,3-Dichloropropane
Concen: 19.679 ug/l
RT: 10.719 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

Tgt Ion: 76 Resp: 61767

Ion	Ratio	Lower	Upper
76	100		
78	32.3	25.8	38.8

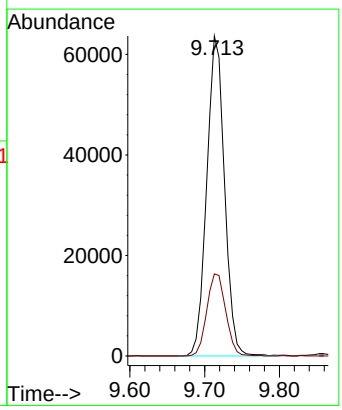


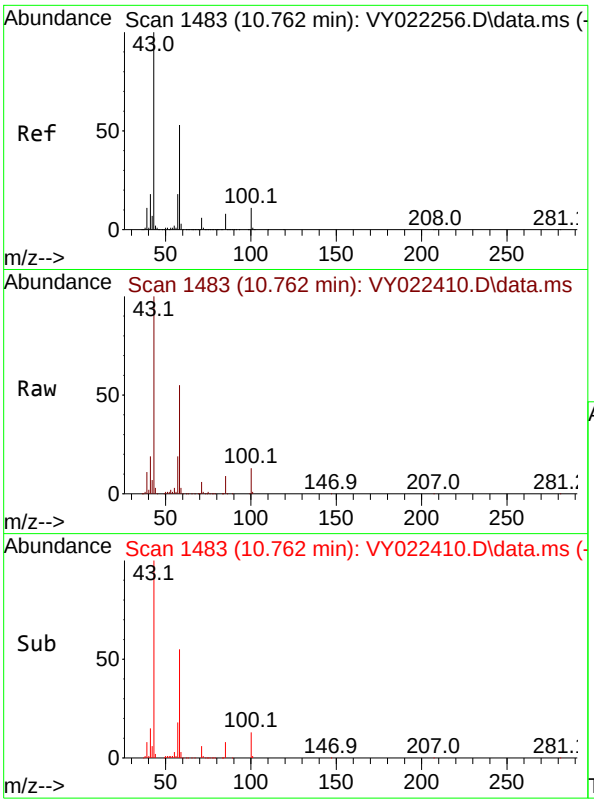


#58
2-Chloroethyl Vinyl ether
Concen: 85.253 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 63 Resp: 105296

Ion	Ratio	Lower	Upper
63	100		
106	27.2	21.0	31.4



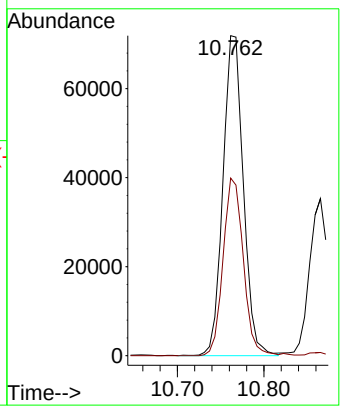


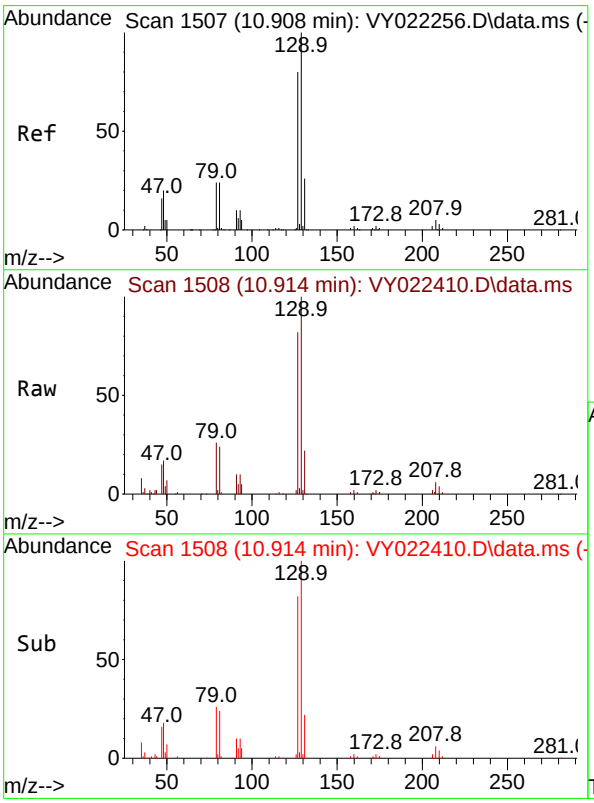
#59
2-Hexanone
Concen: 95.289 ug/l
RT: 10.762 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

Tgt Ion: 43 Resp: 117719

Ion	Ratio	Lower	Upper
43	100		
58	54.9	26.1	78.3

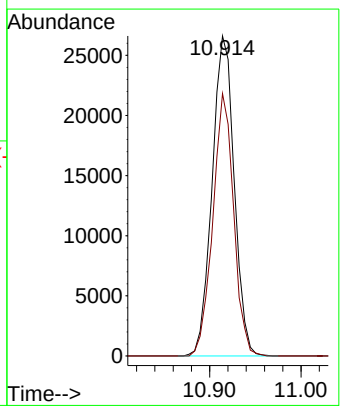


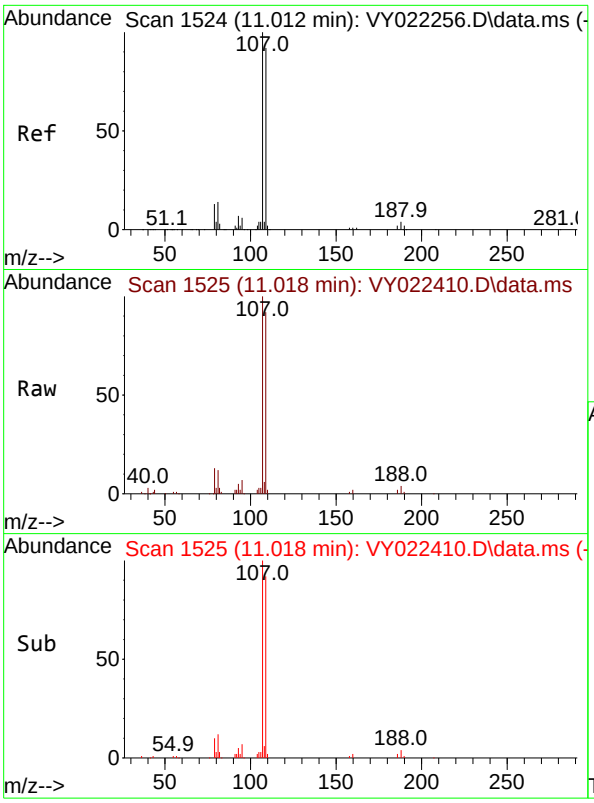


#60
Dibromochloromethane
Concen: 19.477 ug/l
RT: 10.914 min Scan# 1508
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion:129 Resp: 44658

Ion	Ratio	Lower	Upper
129	100		
127	77.2	38.6	115.7



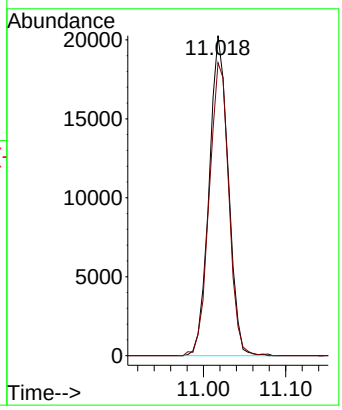


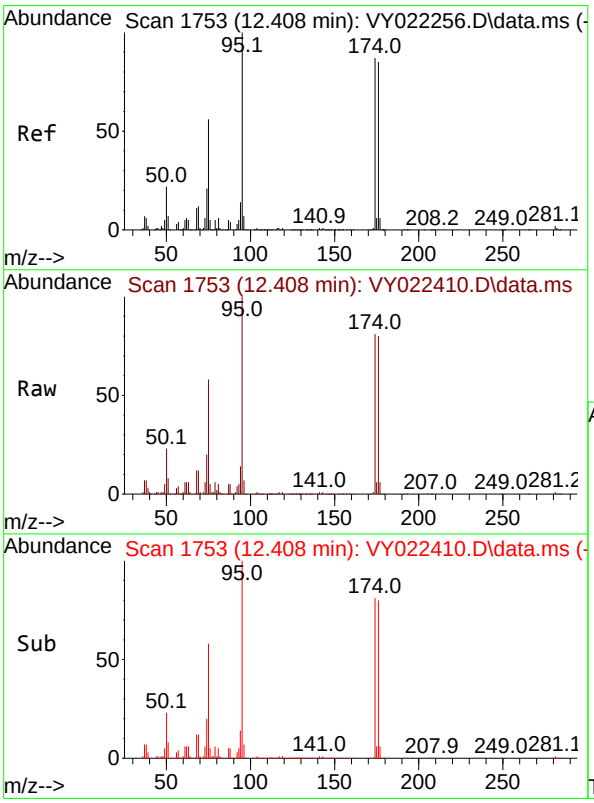
#61
1,2-Dibromoethane
Concen: 19.976 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

Tgt Ion:107 Resp: 32889

Ion	Ratio	Lower	Upper
107	100		
109	93.4	74.6	111.8

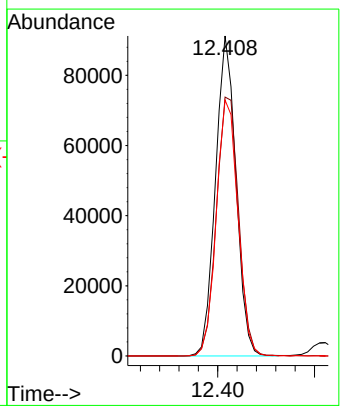


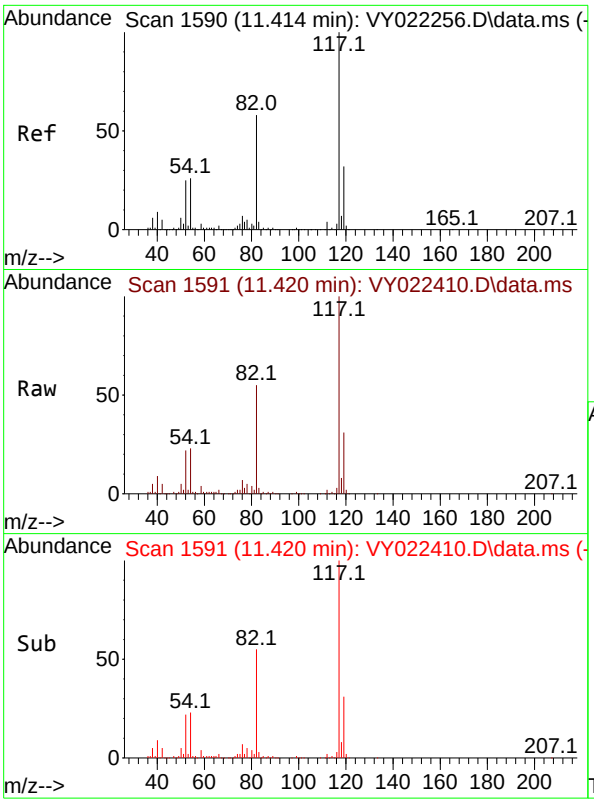


#62
4-Bromofluorobenzene
Concen: 47.495 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 95 Resp: 133958

Ion	Ratio	Lower	Upper
95	100		
174	87.6	0.0	166.8
176	84.7	0.0	160.8



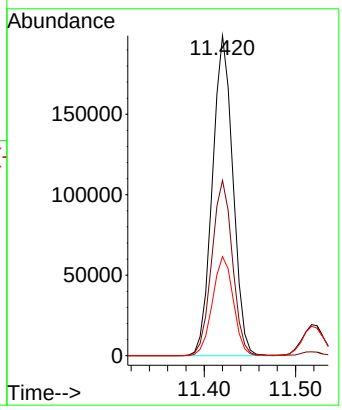


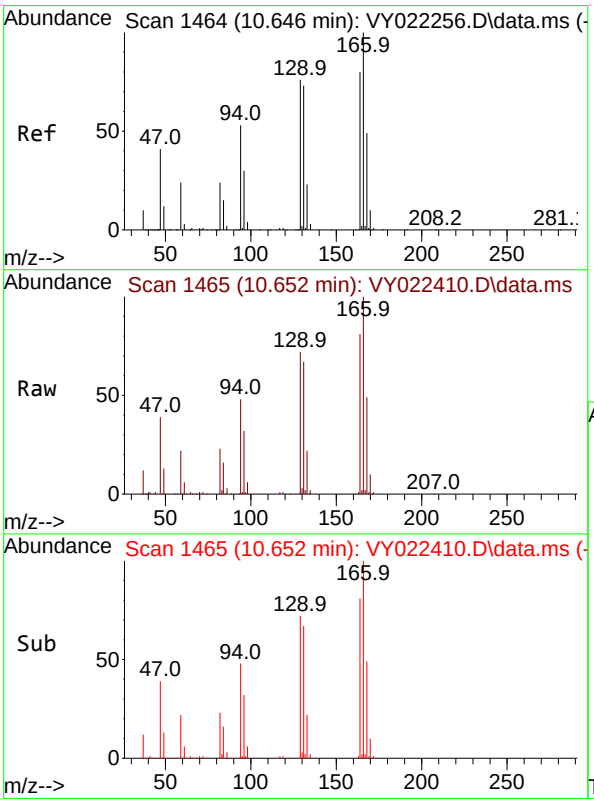
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

Tgt Ion:117 Resp: 310108

Ion	Ratio	Lower	Upper
117	100		
82	54.8	46.6	70.0
119	31.0	25.8	38.6

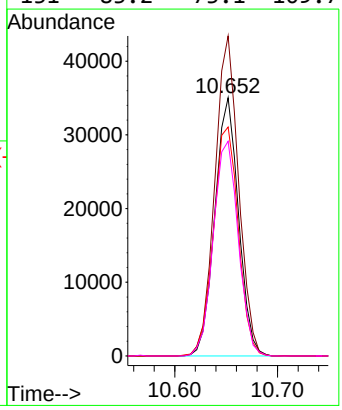


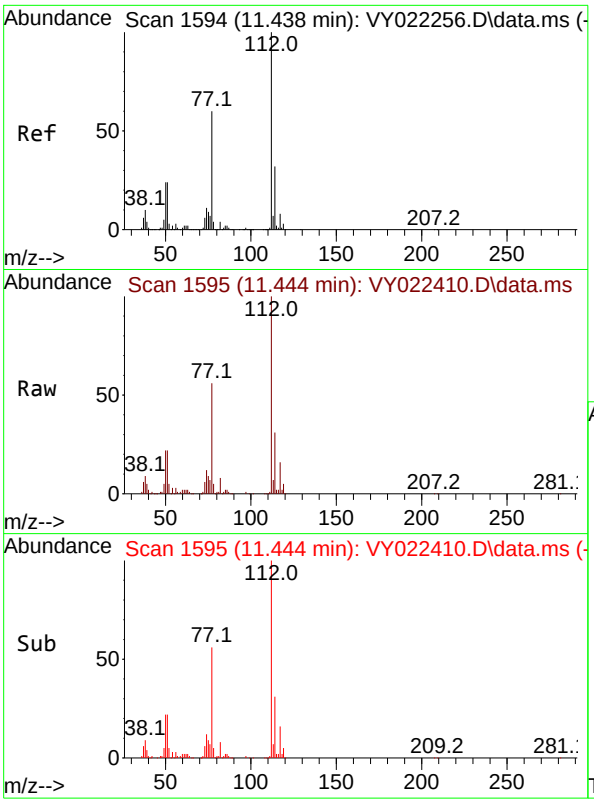


#64
Tetrachloroethene
Concen: 19.560 ug/l
RT: 10.652 min Scan# 1465
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion:164 Resp: 56065

Ion	Ratio	Lower	Upper
164	100		
166	123.9	100.4	150.6
129	88.7	76.4	114.6
131	83.2	73.1	109.7



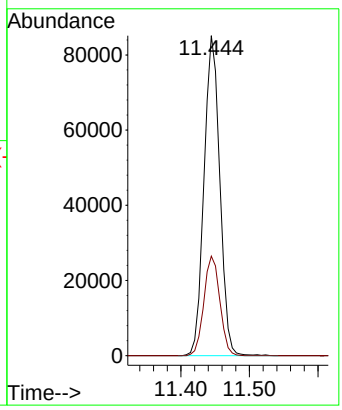


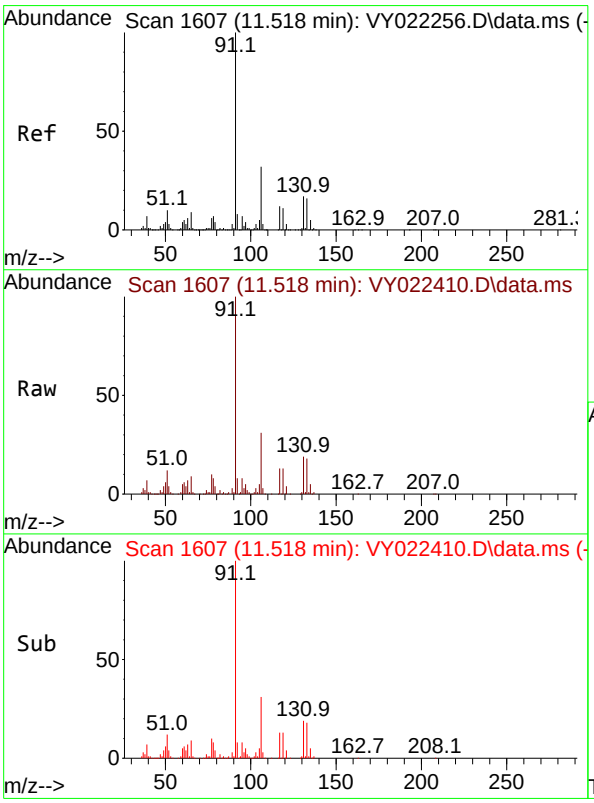
#65
Chlorobenzene
Concen: 19.502 ug/l
RT: 11.444 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

Tgt Ion:112 Resp: 136439

Ion	Ratio	Lower	Upper
112	100		
114	31.1	25.8	38.6

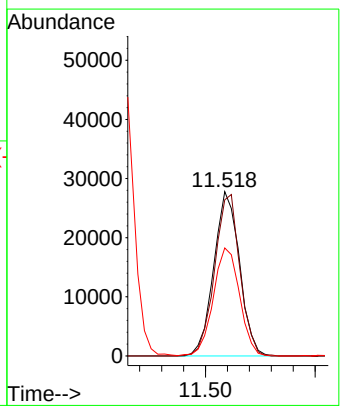


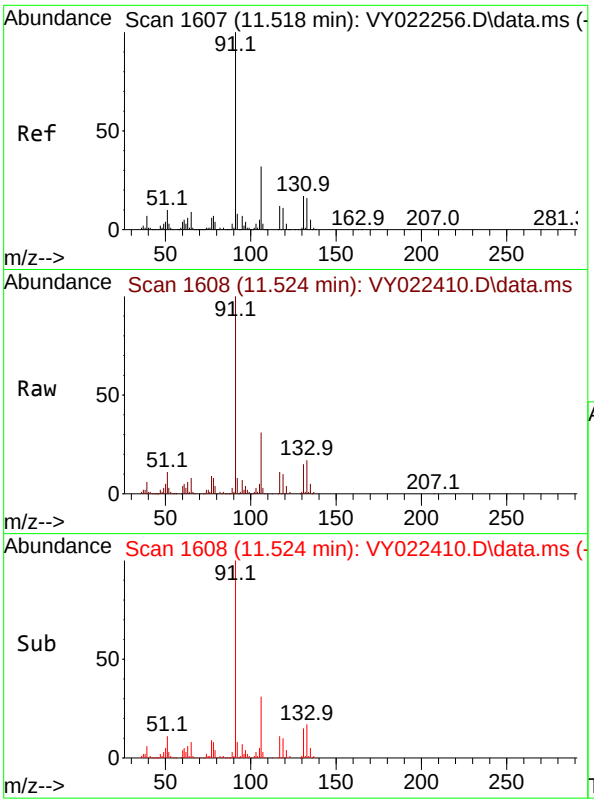


#66
1,1,1,2-Tetrachloroethane
Concen: 18.833 ug/l
RT: 11.518 min Scan# 1607
Delta R.T. 0.000 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion:131 Resp: 45297

Ion	Ratio	Lower	Upper
131	100		
133	96.6	47.3	141.9
119	67.2	33.1	99.2



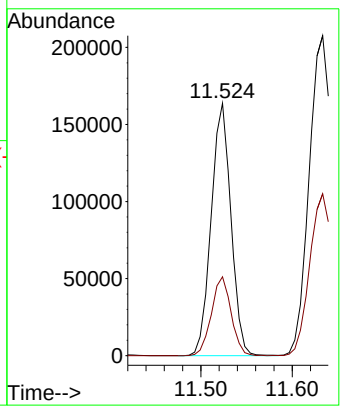


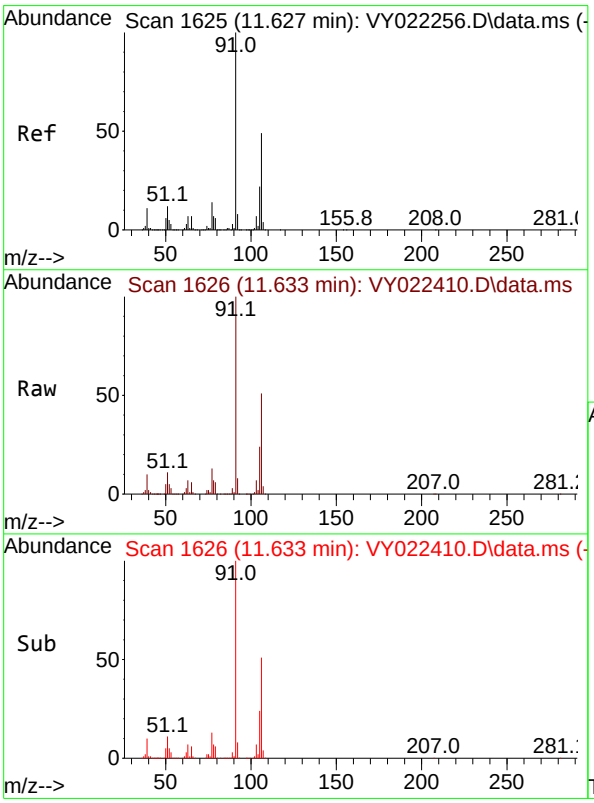
#67
Ethyl Benzene
Concen: 18.770 ug/l
RT: 11.524 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

Tgt Ion: 91 Resp: 245943

Ion	Ratio	Lower	Upper
91	100		
106	31.2	25.4	38.0

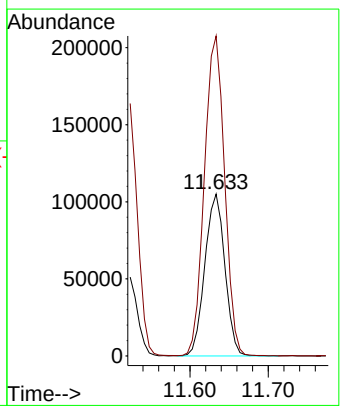


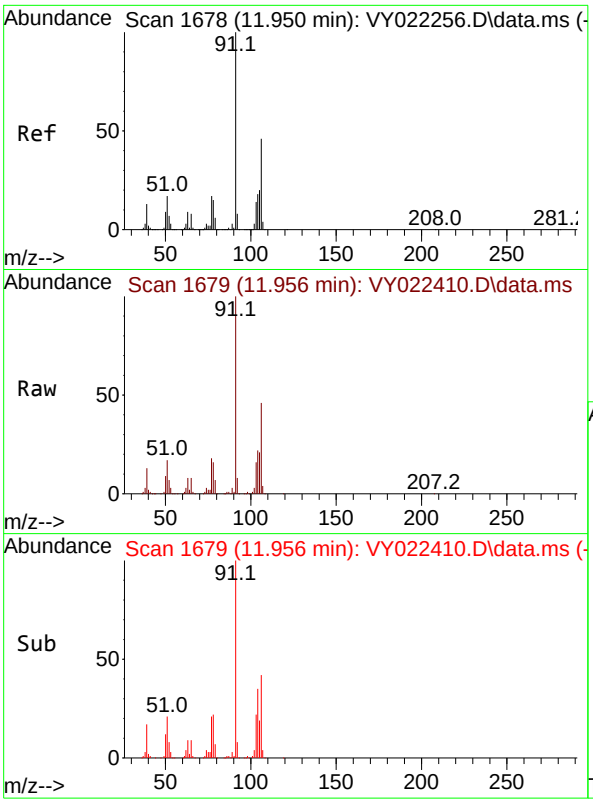


#68
m/p-Xylenes
Concen: 37.778 ug/l
RT: 11.633 min Scan# 1626
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion:106 Resp: 186520

Ion	Ratio	Lower	Upper
106	100		
91	199.7	163.0	244.4



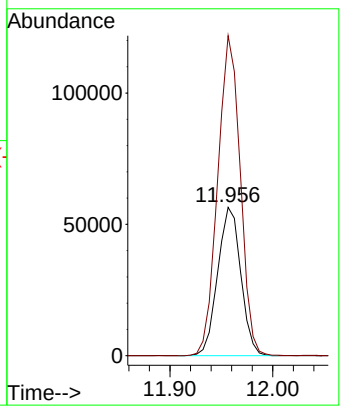


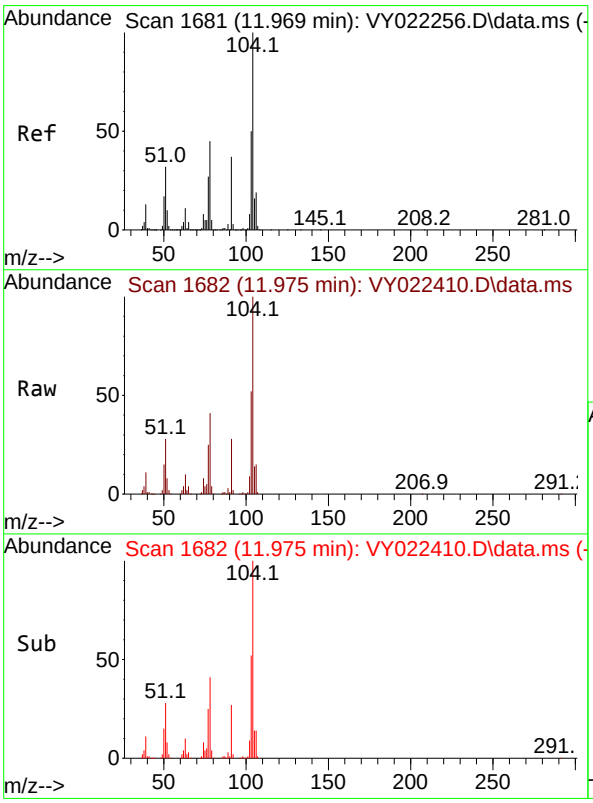
#69
o-Xylene
Concen: 18.862 ug/l
RT: 11.956 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

Tgt Ion:106 Resp: 88111

Ion	Ratio	Lower	Upper
106	100		
91	211.0	108.3	324.8

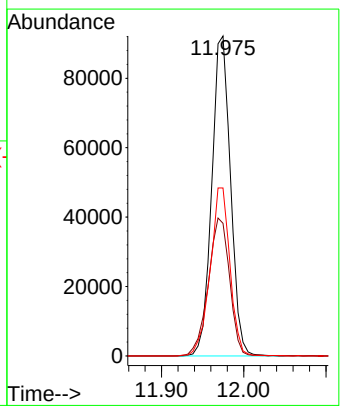


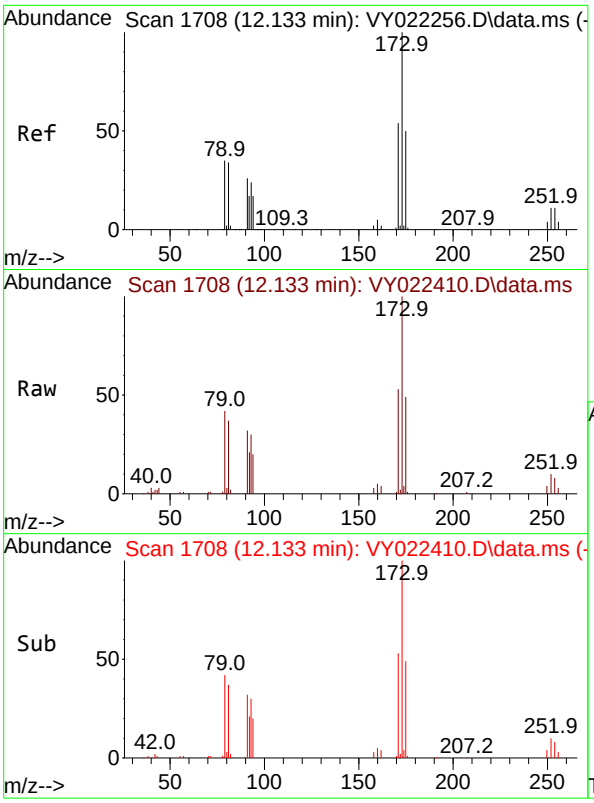


#70
Styrene
Concen: 18.533 ug/l
RT: 11.975 min Scan# 1682
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion:104 Resp: 146038

Ion	Ratio	Lower	Upper
104	100		
78	49.1	40.9	61.3
103	55.3	43.7	65.5



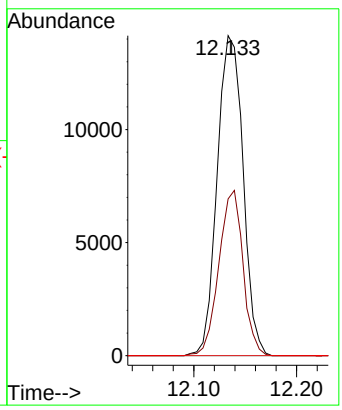


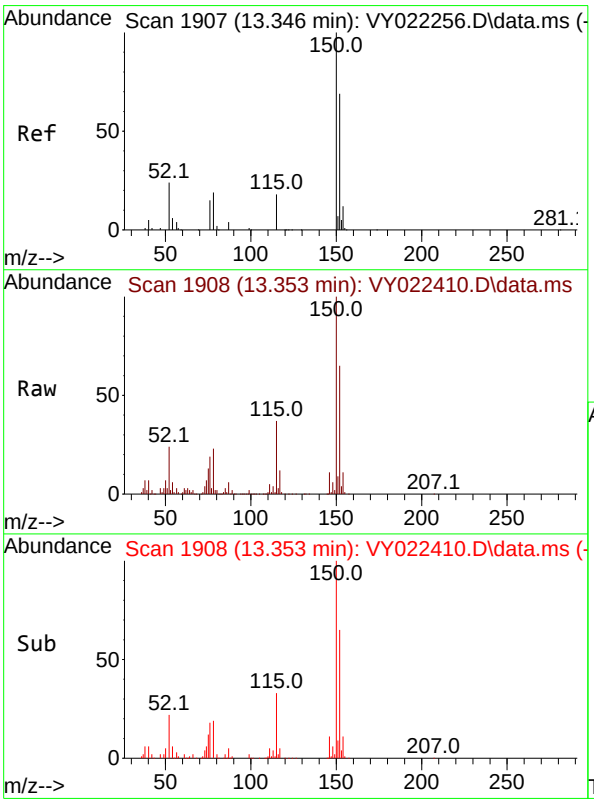
#71
Bromoform
Concen: 19.042 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

Tgt Ion:173 Resp: 24721

Ion	Ratio	Lower	Upper
173	100		
175	48.3	24.7	74.1
254	0.0	0.0	0.0

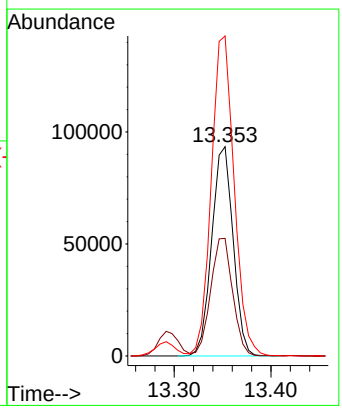


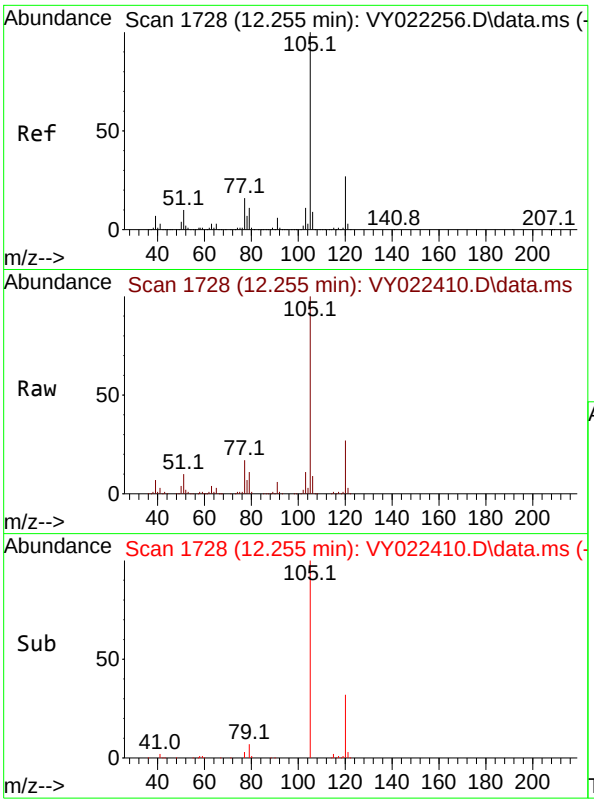


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.353 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion:152 Resp: 143885

Ion	Ratio	Lower	Upper
152	100		
115	57.8	29.4	88.2
150	162.8	0.0	353.8



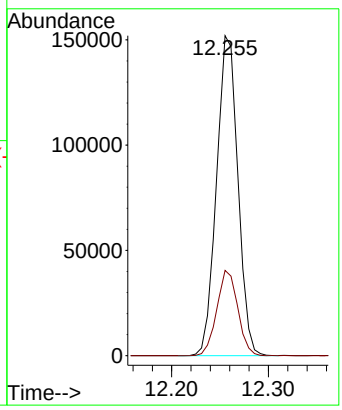


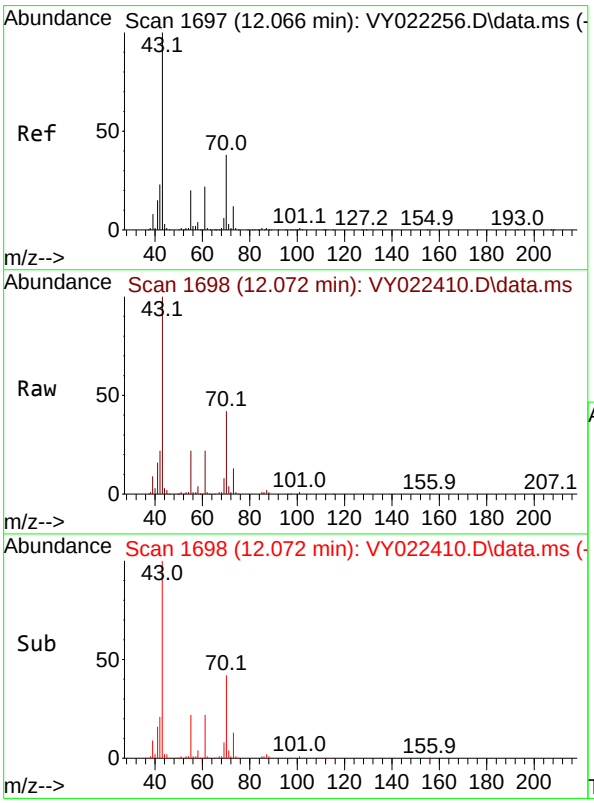
#73
Isopropylbenzene
Concen: 19.522 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

Tgt Ion:105 Resp: 232709

Ion	Ratio	Lower	Upper
105	100		
120	26.1	13.2	39.6

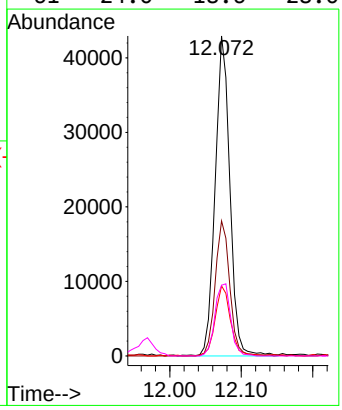


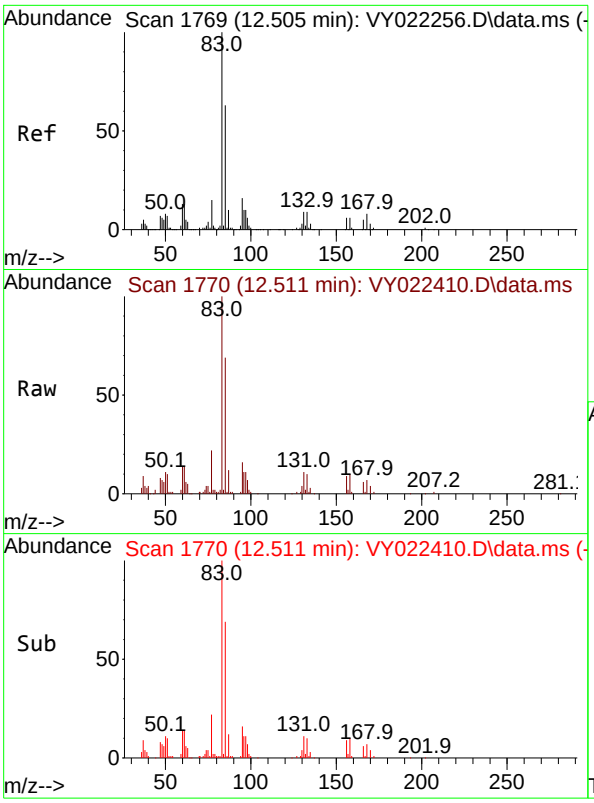


#74
N-amyl acetate
Concen: 18.045 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 43 Resp: 61518

Ion	Ratio	Lower	Upper
43	100		
70	41.7	31.4	47.0
55	22.8	17.0	25.6
61	24.0	18.6	28.0



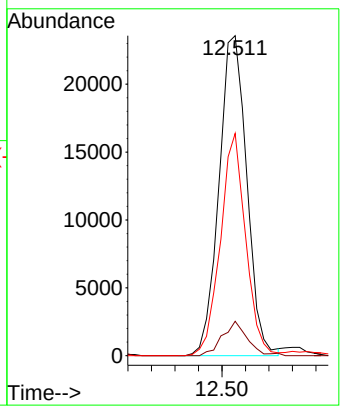


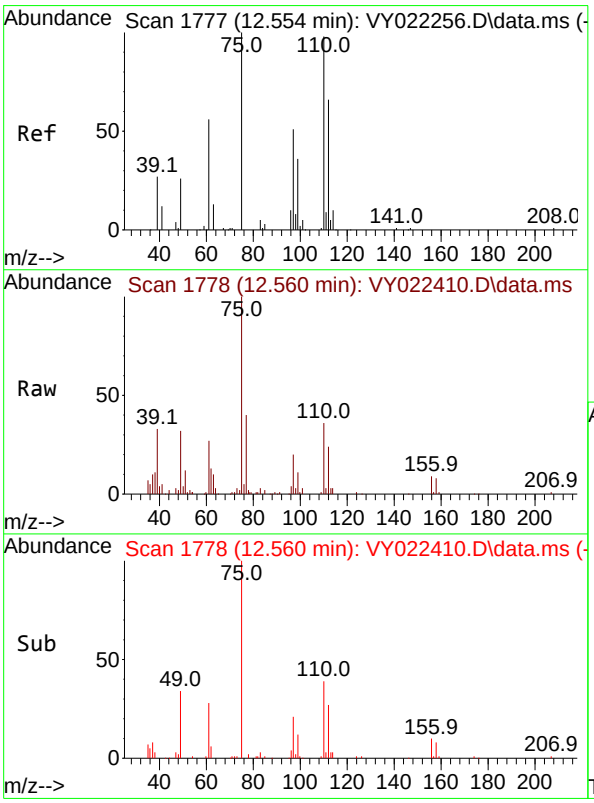
#75
1,1,2,2-Tetrachloroethane
Concen: 21.151 ug/l
RT: 12.511 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

Tgt Ion: 83 Resp: 38775

Ion	Ratio	Lower	Upper
83	100		
131	9.7	4.9	14.7
85	63.2	32.0	96.0

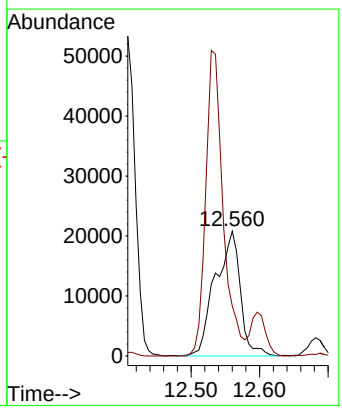


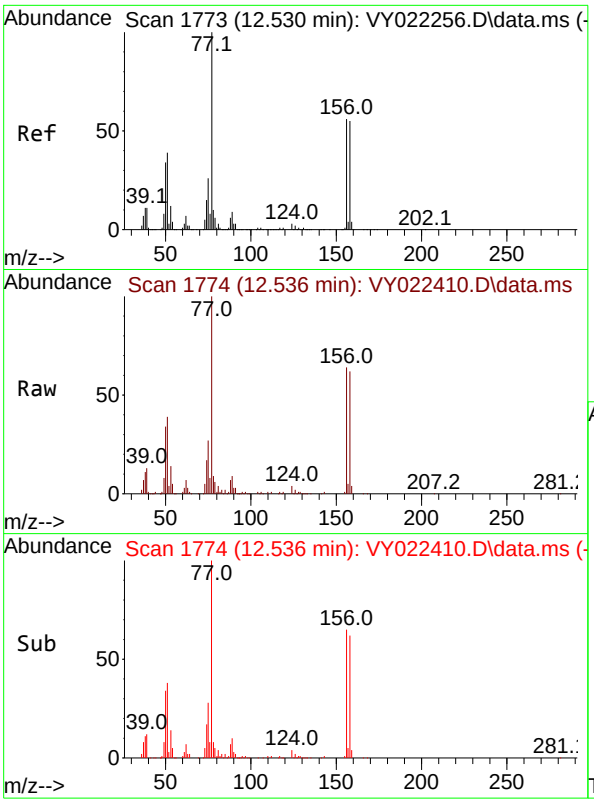


#76
1,2,3-Trichloropropane
Concen: 36.341 ug/l
RT: 12.560 min Scan# 1778
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 75 Resp: 52974

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0



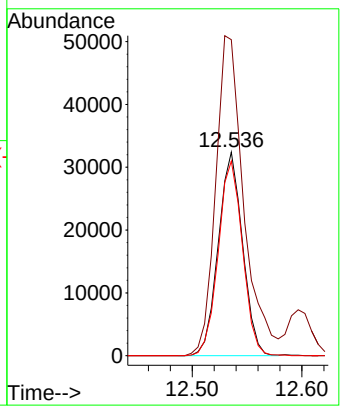


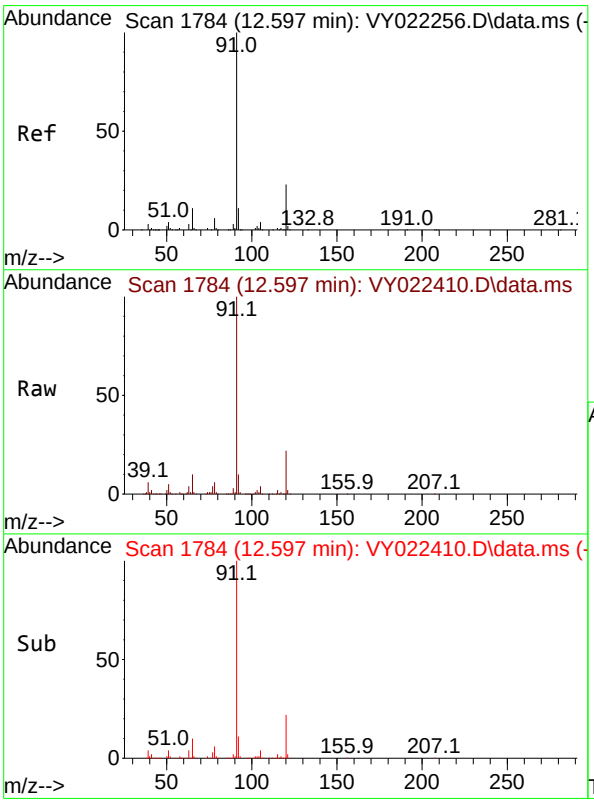
#77
Bromobenzene
Concen: 19.570 ug/l
RT: 12.536 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

Tgt Ion:156 Resp: 49824

Ion	Ratio	Lower	Upper
156	100		
77	182.0	94.5	283.6
158	95.5	48.4	145.3

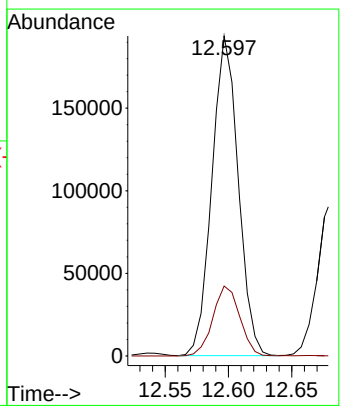


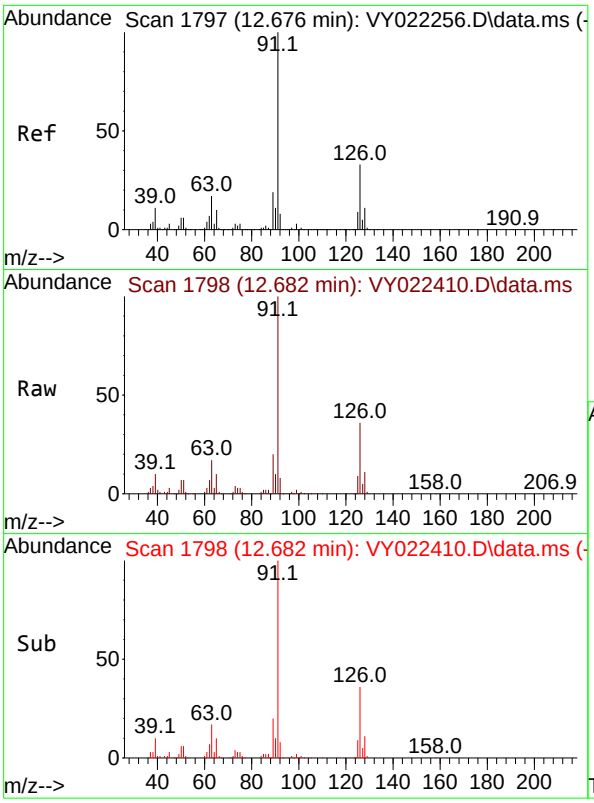


#78
n-propylbenzene
Concen: 19.466 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 91 Resp: 279878

Ion	Ratio	Lower	Upper
91	100		
120	22.3	11.1	33.3



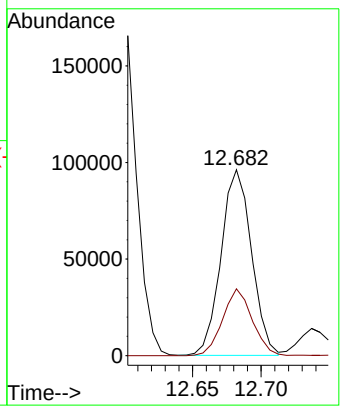


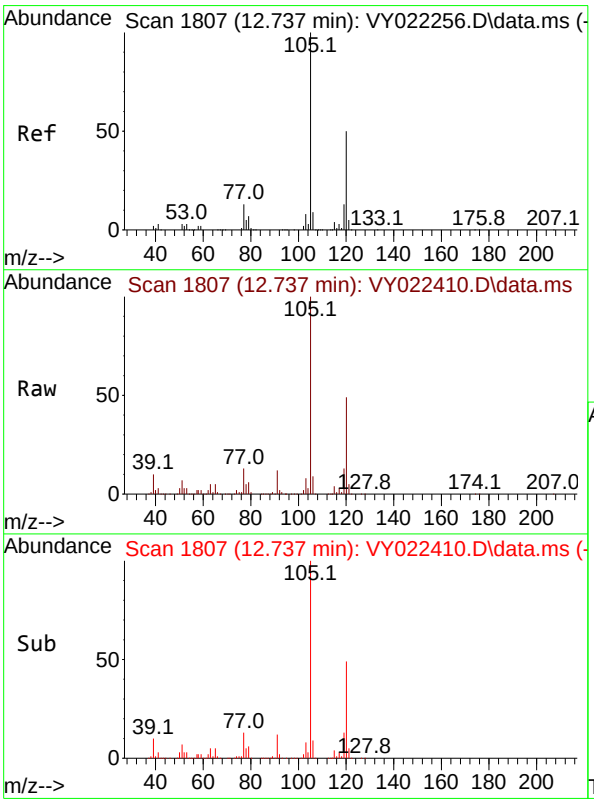
#79
2-Chlorotoluene
Concen: 18.862 ug/l
RT: 12.682 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

Tgt Ion: 91 Resp: 149035

Ion	Ratio	Lower	Upper
91	100		
126	35.1	16.8	50.4

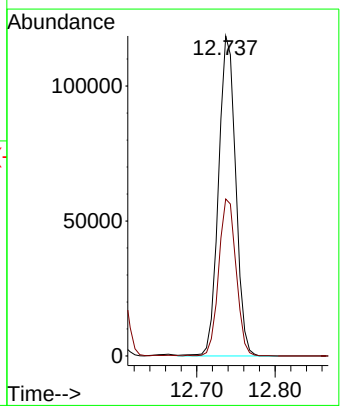


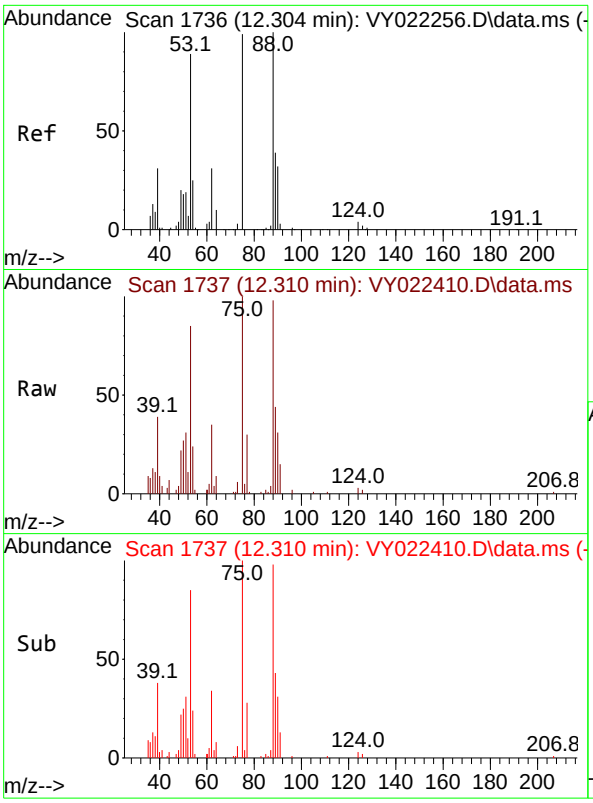


#80
1,3,5-Trimethylbenzene
Concen: 18.763 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion:105 Resp: 180541

Ion	Ratio	Lower	Upper
105	100		
120	49.8	24.2	72.6



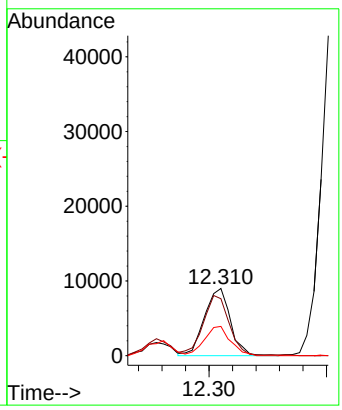


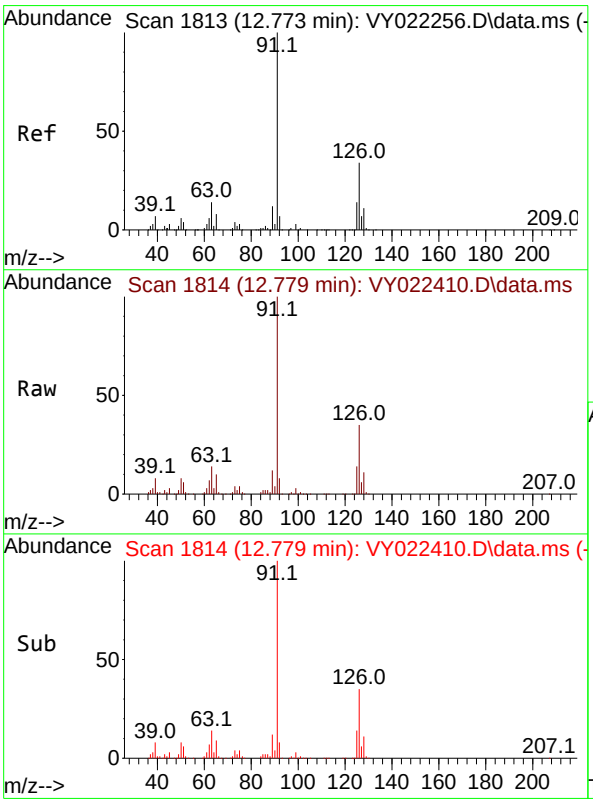
#81
trans-1,4-Dichloro-2-butene
Concen: 19.084 ug/l
RT: 12.310 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

Tgt Ion: 75 Resp: 13733

Ion	Ratio	Lower	Upper
75	100		
53	88.2	75.8	113.8
89	43.8	36.2	54.2

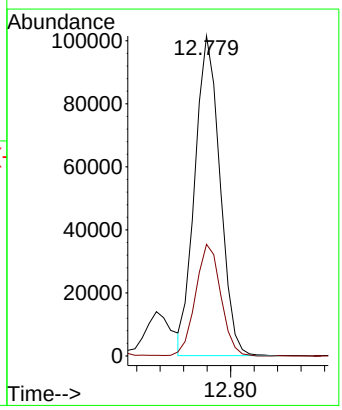


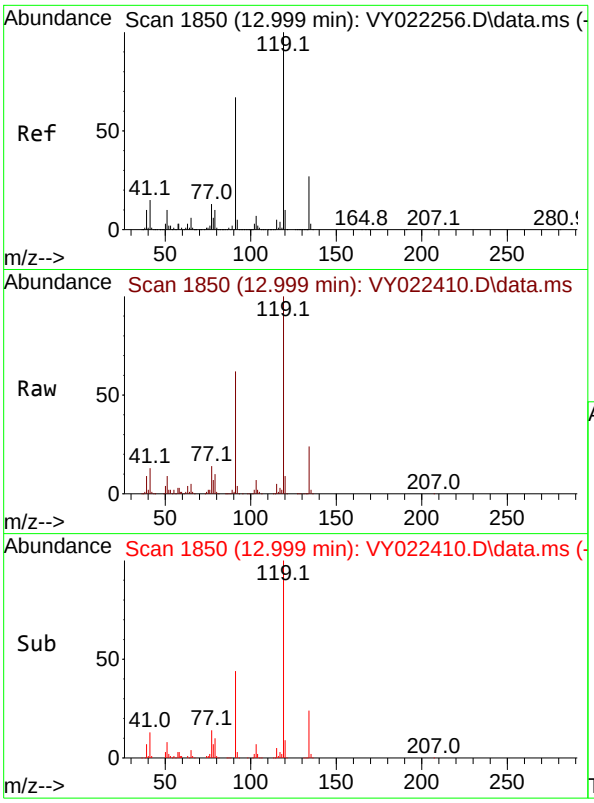


#82
4-Chlorotoluene
Concen: 18.501 ug/l
RT: 12.779 min Scan# 1814
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 91 Resp: 150359

Ion	Ratio	Lower	Upper
91	100		
126	35.1	16.8	50.4



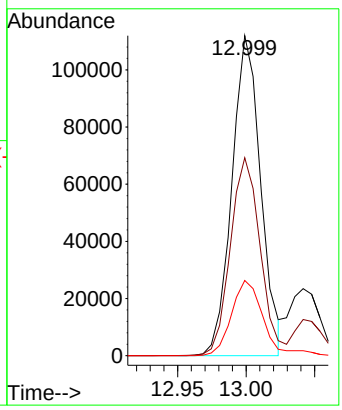


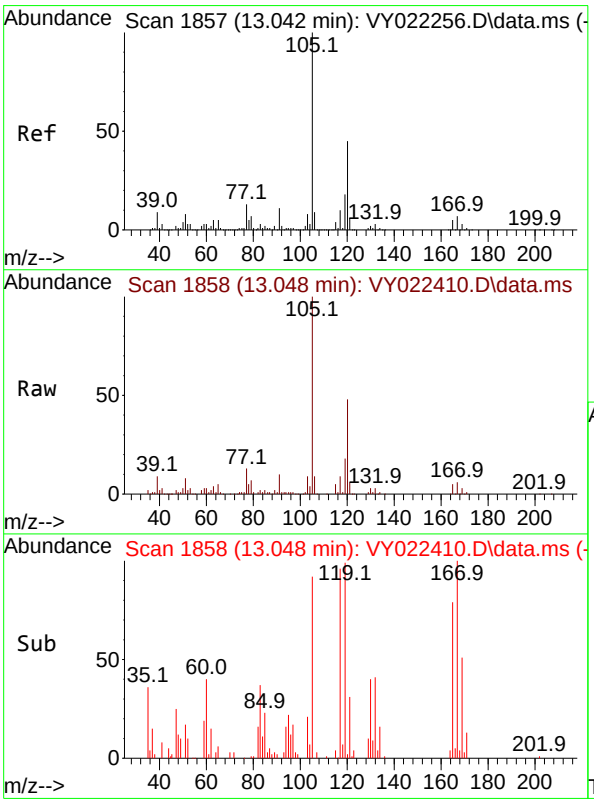
#83
tert-Butylbenzene
Concen: 19.152 ug/l
RT: 12.999 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

Tgt Ion:119 Resp: 163800

Ion	Ratio	Lower	Upper
119	100		
91	64.3	32.8	98.3
134	26.0	12.9	38.6

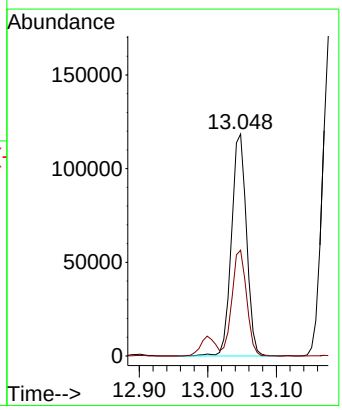


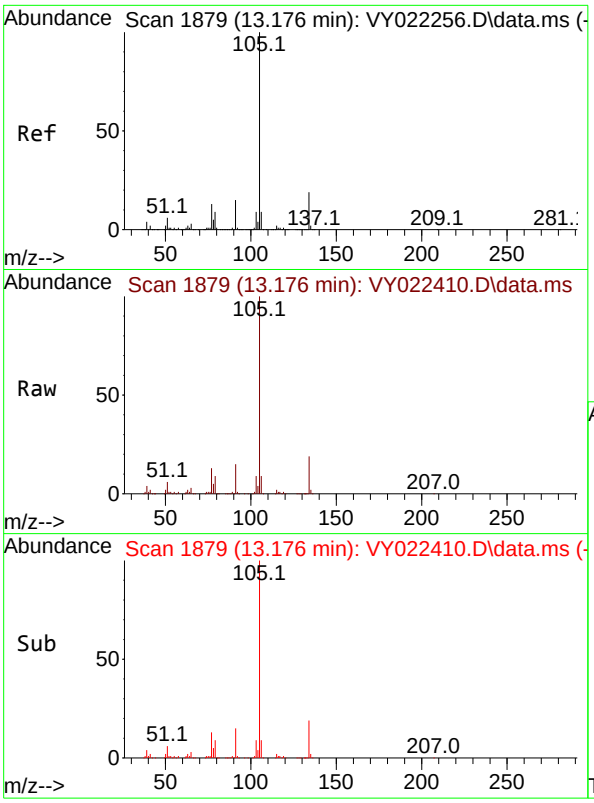


#84
1,2,4-Trimethylbenzene
Concen: 18.876 ug/l
RT: 13.048 min Scan# 1858
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion:105 Resp: 180298

Ion	Ratio	Lower	Upper
105	100		
120	46.6	22.3	66.9



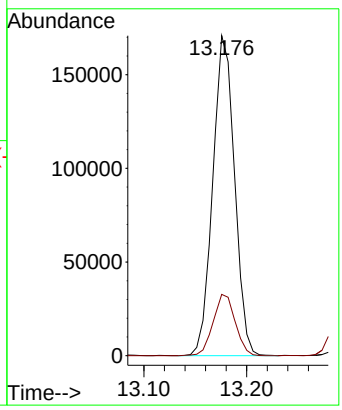


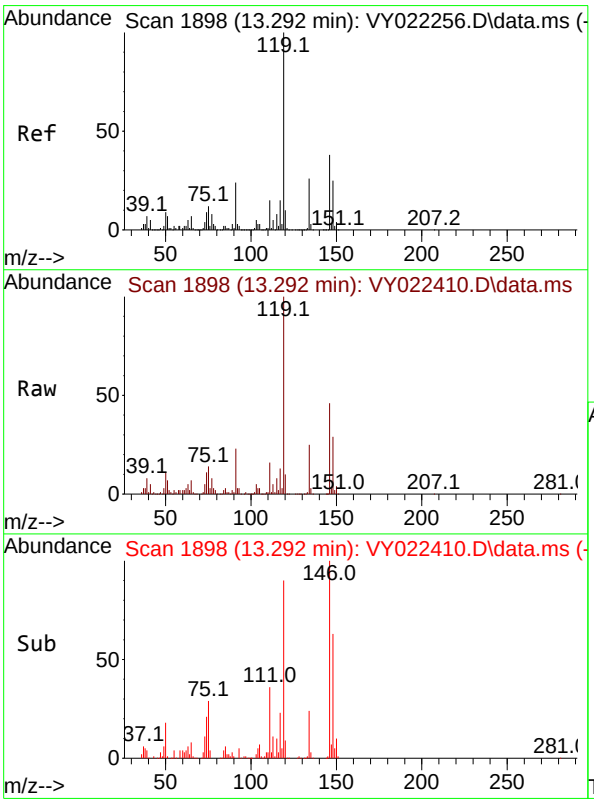
#85
sec-Butylbenzene
Concen: 19.763 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

Tgt Ion:105 Resp: 250907

Ion	Ratio	Lower	Upper
105	100		
134	19.5	9.8	29.5

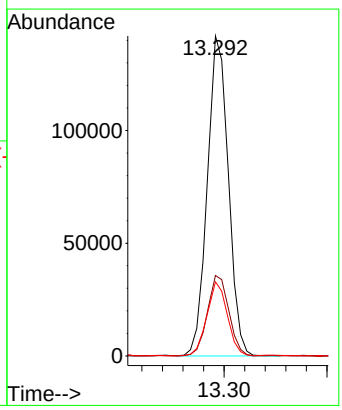


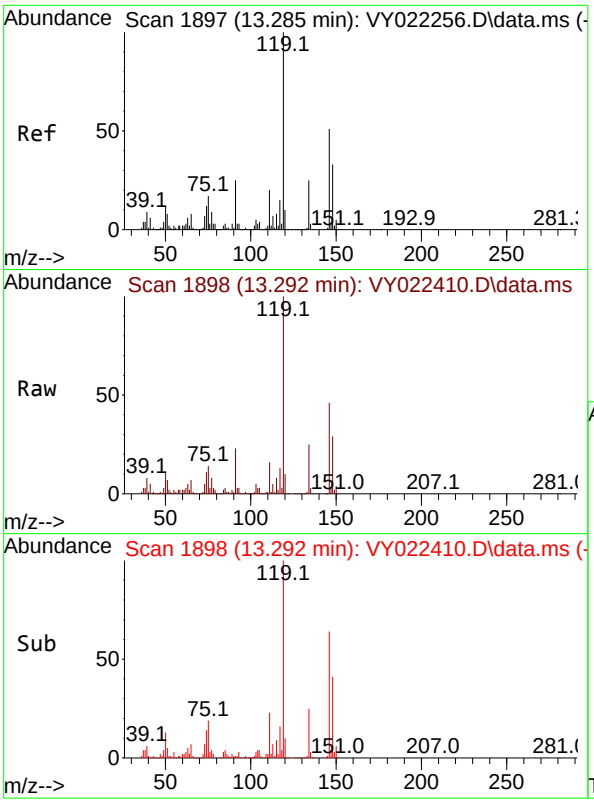


#86
p-Isopropyltoluene
Concen: 18.911 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.000 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion:119 Resp: 201925

Ion	Ratio	Lower	Upper
119	100		
134	25.6	12.9	38.6
91	22.4	12.1	36.3



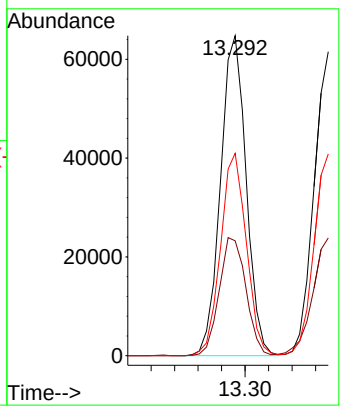


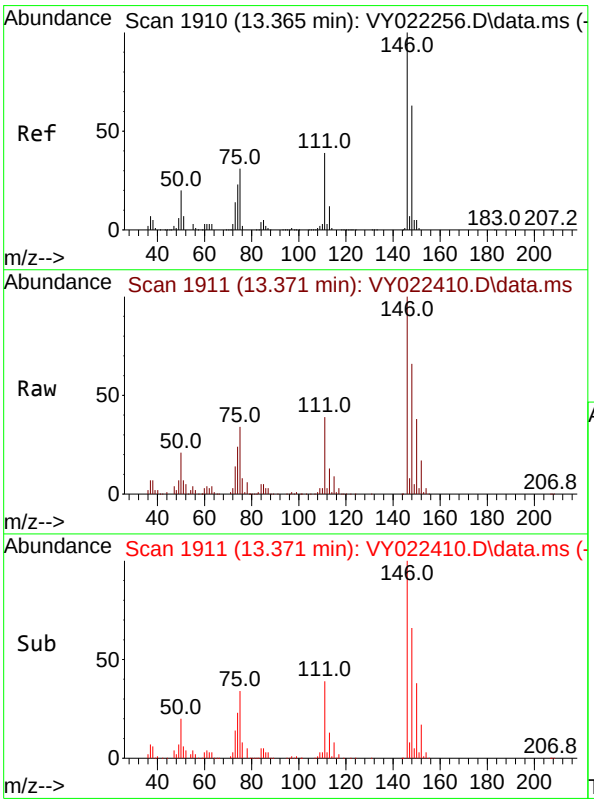
#87
1,3-Dichlorobenzene
Concen: 18.887 ug/l
RT: 13.292 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

Tgt Ion:146 Resp: 98161

Ion	Ratio	Lower	Upper
146	100		
111	38.5	19.9	59.7
148	63.5	31.9	95.7

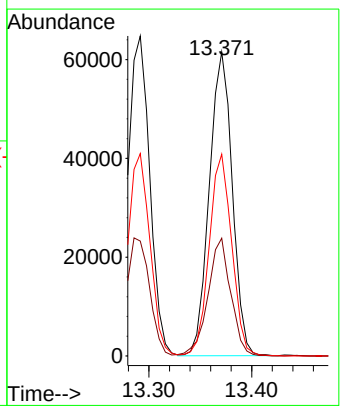


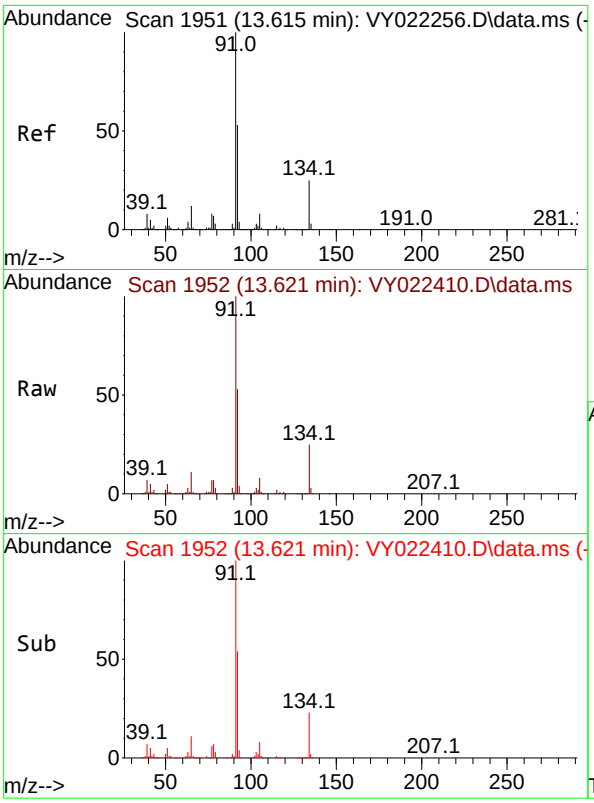


#88
1,4-Dichlorobenzene
Concen: 19.082 ug/l
RT: 13.371 min Scan# 1911
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion:146 Resp: 95398

Ion	Ratio	Lower	Upper
146	100		
111	38.7	20.0	59.9
148	65.4	32.1	96.5



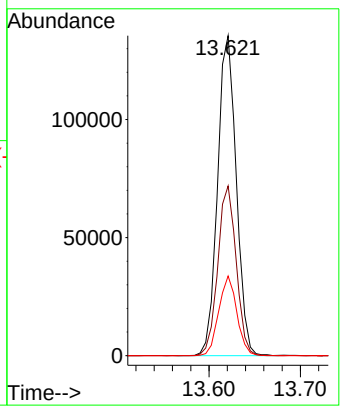


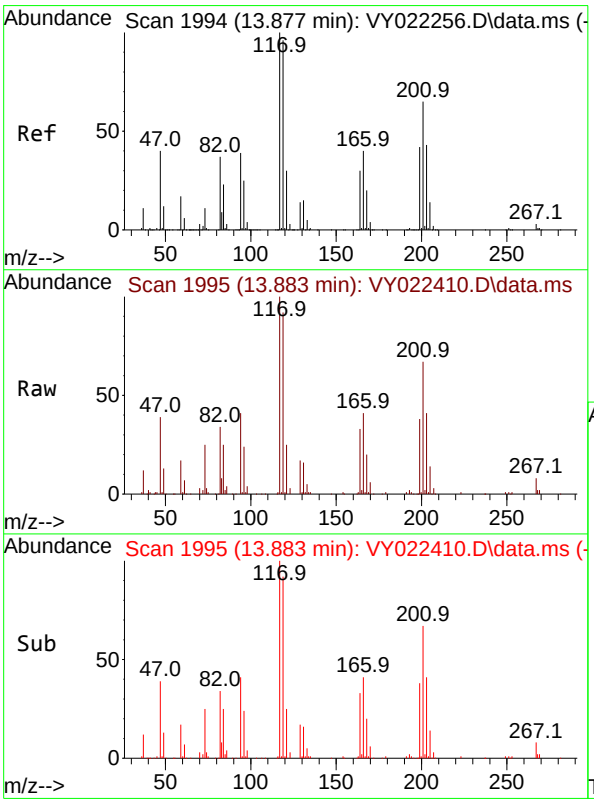
#89
n-Butylbenzene
Concen: 19.096 ug/l
RT: 13.621 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

Tgt Ion: 91 Resp: 192901

Ion	Ratio	Lower	Upper
91	100		
92	52.3	26.3	78.9
134	24.1	12.4	37.4

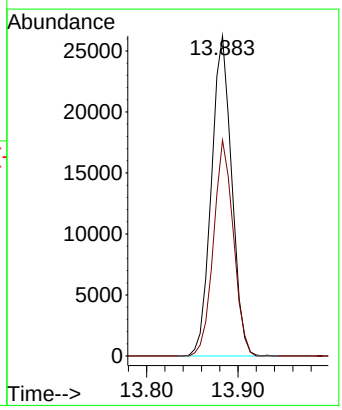


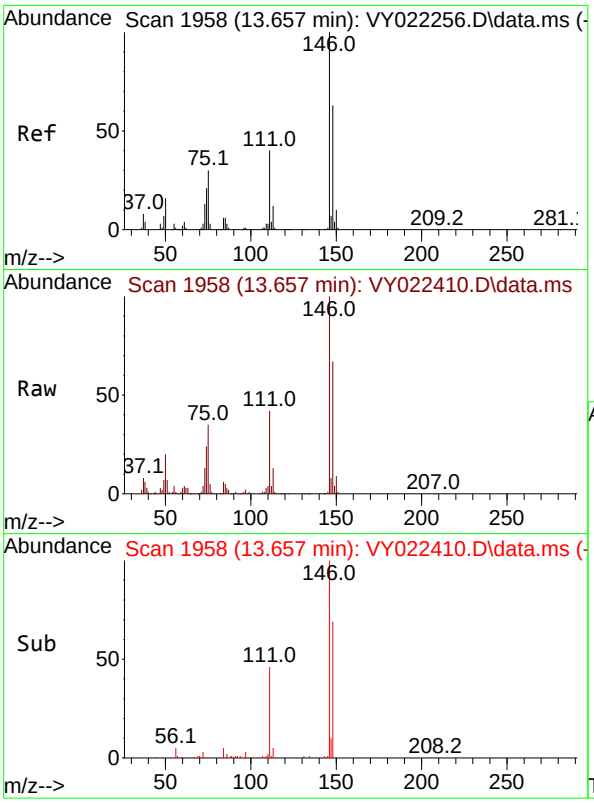


#90
Hexachloroethane
Concen: 18.768 ug/l
RT: 13.883 min Scan# 1995
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion:117 Resp: 40452

Ion	Ratio	Lower	Upper
117	100		
201	66.1	35.2	105.6



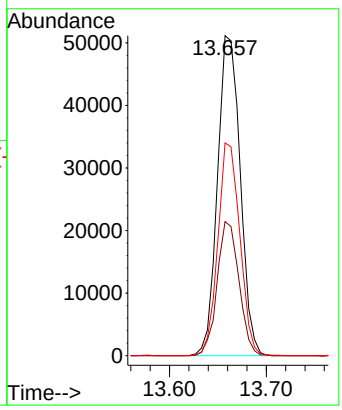


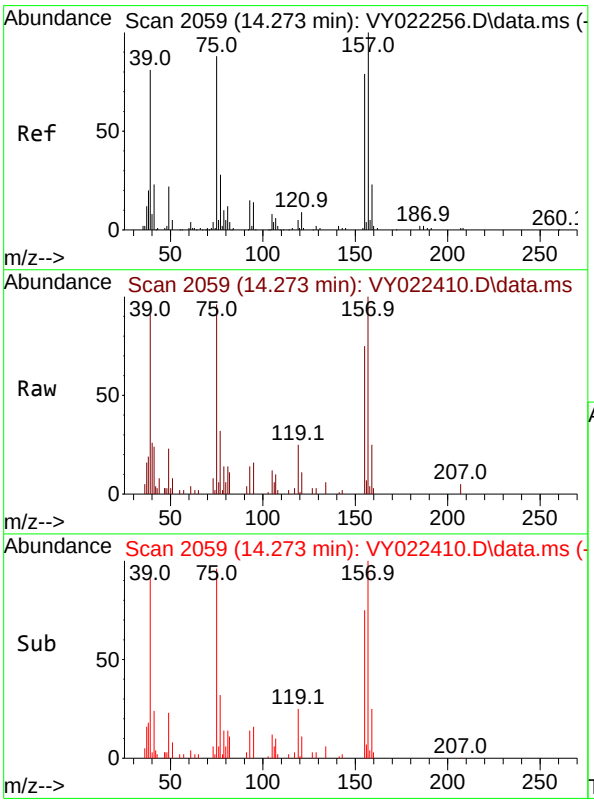
#91
1,2-Dichlorobenzene
Concen: 19.092 ug/l
RT: 13.657 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

Tgt Ion:146 Resp: 83346

Ion	Ratio	Lower	Upper
146	100		
111	40.2	20.5	61.5
148	64.4	32.0	96.0

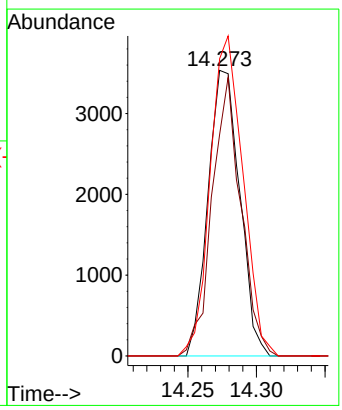


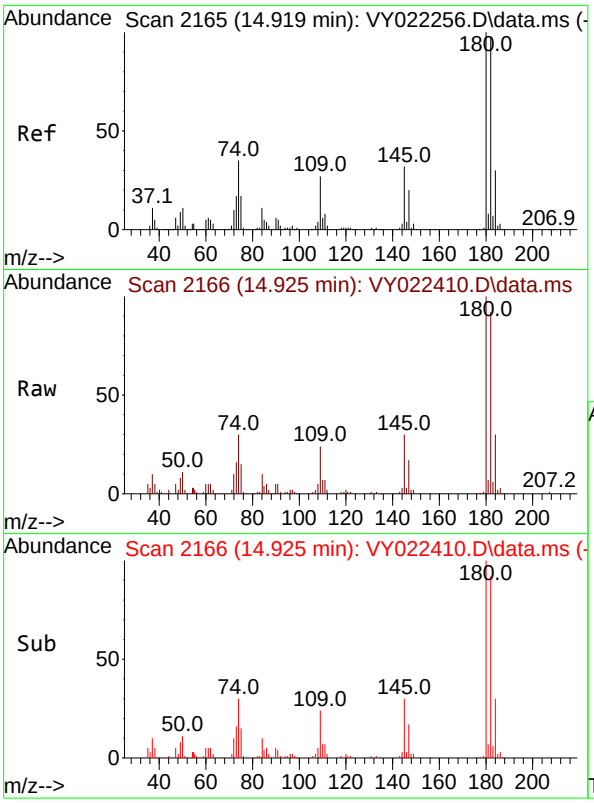


#92
1,2-Dibromo-3-Chloropropane
Concen: 19.214 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.000 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion: 75 Resp: 5680

Ion	Ratio	Lower	Upper
75	100		
155	88.9	43.4	130.1
157	115.7	54.6	163.9



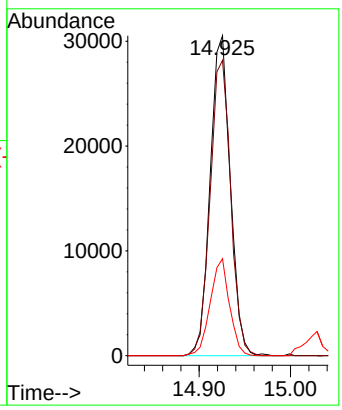


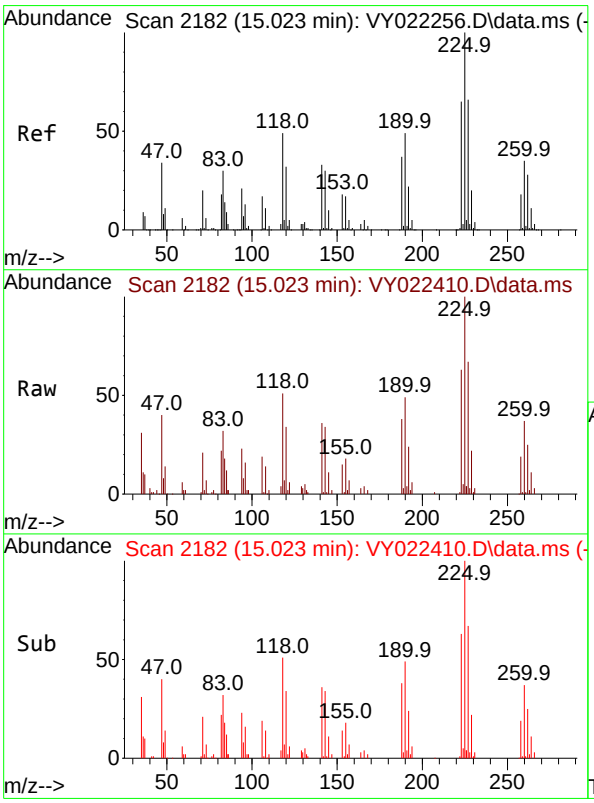
#93
1,2,4-Trichlorobenzene
Concen: 18.451 ug/l
RT: 14.925 min Scan# 21
Delta R.T. 0.006 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

Tgt Ion:180 Resp: 46528

Ion	Ratio	Lower	Upper
180	100		
182	94.7	48.0	144.0
145	29.0	15.0	45.1

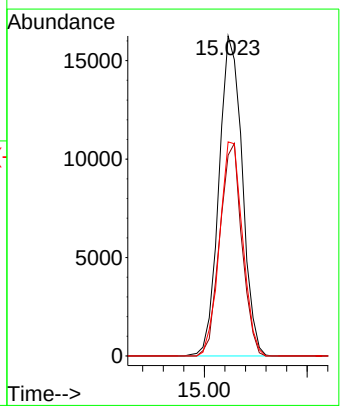


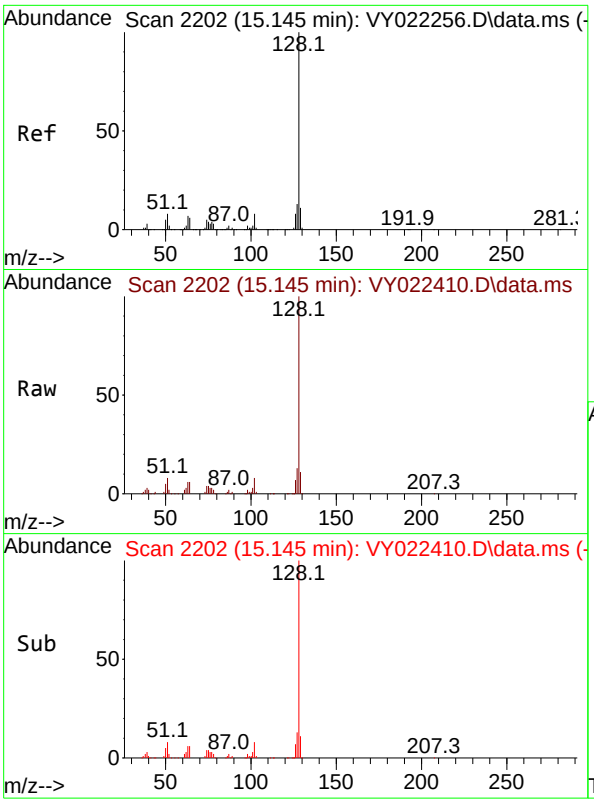


#94
Hexachlorobutadiene
Concen: 18.116 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.000 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion:225 Resp: 25477

Ion	Ratio	Lower	Upper
225	100		
223	63.2	31.5	94.5
227	66.4	32.1	96.3



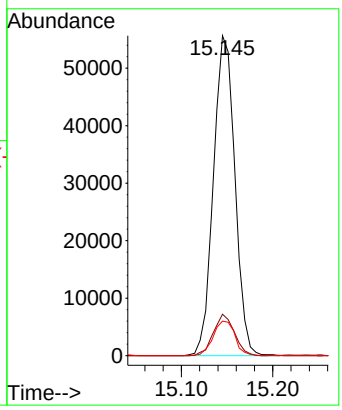


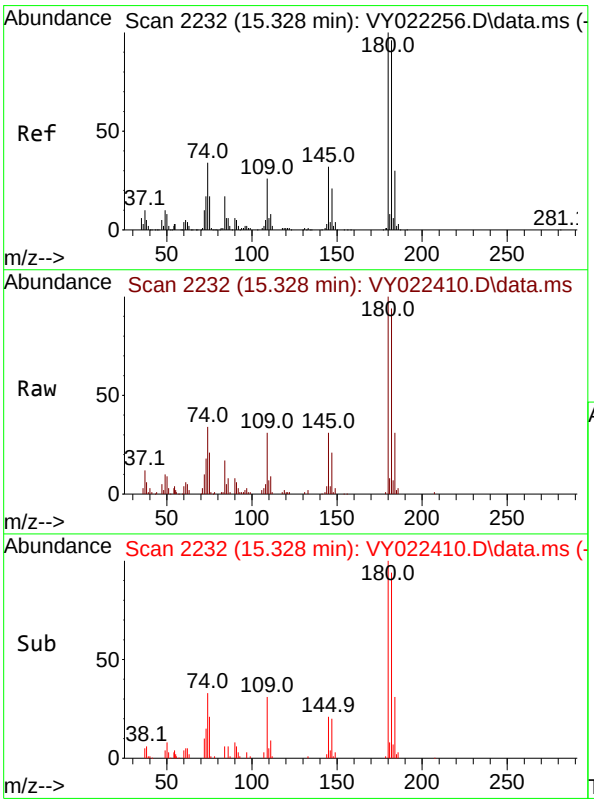
#95
Naphthalene
Concen: 19.025 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Instrument :
MSVOA_Y
ClientSampleId :
VY0523SBSD01

Tgt Ion:128 Resp: 91043

Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.2	15.2
129	11.0	8.8	13.2

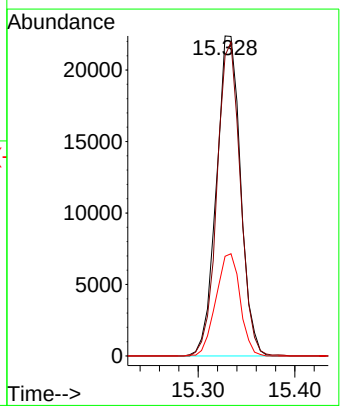




#96
1,2,3-Trichlorobenzene
Concen: 18.117 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. 0.000 min
Lab File: VY022410.D
Acq: 23 May 2025 16:50

Tgt Ion:180 Resp: 38757

Ion	Ratio	Lower	Upper
180	100		
182	94.5	47.1	141.3
145	32.1	15.9	47.6



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022419.D
Acq On : 23 May 2025 20:20
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Quant Time: May 23 23:26:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	7.719	168	191491	50.000	ug/l		0.01
34) 1,4-Difluorobenzene	8.622	114	329252	50.000	ug/l		0.00
63) Chlorobenzene-d5	11.420	117	282638	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	13.352	152	136386	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	8.067	65	95312	45.542	ug/l		0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 91.080%				
35) Dibromofluoromethane	7.646	113	93973	47.819	ug/l		0.01
Spiked Amount 50.000	Range 54 - 147		Recovery = 95.640%				
50) Toluene-d8	10.115	98	364028	45.229	ug/l		0.01
Spiked Amount 50.000	Range 58 - 134		Recovery = 90.460%				
62) 4-Bromofluorobenzene	12.407	95	109296	42.843	ug/l		0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 85.680%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.867	85	85350	42.715	ug/l		99
3) Chloromethane	2.068	50	221521	52.703	ug/l		100
4) Vinyl Chloride	2.208	62	262650	55.931	ug/l		98
5) Bromomethane	2.598	94	295104	77.196	ug/l		98
6) Chloroethane	2.739	64	193048	66.079	ug/l		97
7) Trichlorofluoromethane	3.056	101	221208	46.526	ug/l		98
8) Diethyl Ether	3.464	74	48244	42.282	ug/l		95
9) 1,1,2-Trichlorotrifluo...	3.824	101	97970	47.464	ug/l		98
10) Methyl Iodide	4.013	142	119495	50.020	ug/l		99
11) Tert butyl alcohol	4.878	59	32014	200.319	ug/l	#	100
12) 1,1-Dichloroethene	3.799	96	95717	46.730	ug/l		98
13) Acrolein	3.665	56	4504	19.278	ug/l	#	81
14) Allyl chloride	4.391	41	140777	39.197	ug/l		92
15) Acrylonitrile	5.073	53	104209	221.651	ug/l		99
16) Acetone	3.885	43	72874	185.705	ug/l		97
17) Carbon Disulfide	4.116	76	305645	45.760	ug/l		98
18) Methyl Acetate	4.403	43	52522	42.450	ug/l		95
19) Methyl tert-butyl Ether	5.128	73	246420	43.631	ug/l		98
20) Methylene Chloride	4.622	84	106718	42.087	ug/l		90
21) trans-1,2-Dichloroethene	5.122	96	105199	46.530	ug/l		95
22) Diisopropyl ether	6.031	45	303766	40.051	ug/l		97
23) Vinyl Acetate	5.970	43	921723	201.158	ug/l		97
24) 1,1-Dichloroethane	5.927	63	189630	44.752	ug/l		99
25) 2-Butanone	6.902	43	130073	198.161	ug/l		97
26) 2,2-Dichloropropane	6.890	77	156811	41.607	ug/l		98
27) cis-1,2-Dichloroethene	6.902	96	121537	46.584	ug/l		95
28) Bromochloromethane	7.256	49	78227	43.281	ug/l		94
29) Tetrahydrofuran	7.274	42	90078	213.305	ug/l		94
30) Chloroform	7.427	83	187262	46.074	ug/l		99
31) Cyclohexane	7.707	56	174300	41.170	ug/l		97
32) 1,1,1-Trichloroethane	7.628	97	170185	45.640	ug/l		98
36) 1,1-Dichloropropene	7.847	75	140355	43.362	ug/l		98
37) Ethyl Acetate	7.000	43	62887	40.379	ug/l		99
38) Carbon Tetrachloride	7.829	117	148187	44.228	ug/l		99
39) Methylcyclohexane	9.115	83	191450	44.025	ug/l		96
40) Benzene	8.091	78	432393	45.061	ug/l		99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022419.D
Acq On : 23 May 2025 20:20
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Quant Time: May 23 23:26:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	7.226	41	32577	31.533 ug/l #	80
42) 1,2-Dichloroethane	8.164	62	113412	43.705 ug/l	99
43) Isopropyl Acetate	8.207	43	134975	39.739 ug/l	99
44) Trichloroethene	8.872	130	107737	45.155 ug/l	98
45) 1,2-Dichloropropane	9.152	63	98865	42.735 ug/l	95
46) Dibromomethane	9.237	93	55859	44.767 ug/l	99
47) Bromodichloromethane	9.432	83	139278	43.026 ug/l	98
48) Methyl methacrylate	9.225	41	60364	38.003 ug/l	90
49) 1,4-Dioxane	9.250	88	12781	906.702 ug/l	90
51) 4-Methyl-2-Pentanone	10.005	43	334749	200.859 ug/l	96
52) Toluene	10.176	92	272492	44.845 ug/l	100
53) t-1,3-Dichloropropene	10.402	75	128381	40.639 ug/l	97
54) cis-1,3-Dichloropropene	9.859	75	152020	42.002 ug/l	95
55) 1,1,2-Trichloroethane	10.579	97	70160	43.910 ug/l	96
56) Ethyl methacrylate	10.444	69	104244	41.883 ug/l	95
57) 1,3-Dichloropropane	10.725	76	125412	44.176 ug/l	99
58) 2-Chloroethyl Vinyl ether	9.719	63	269651	241.375 ug/l	97
59) 2-Hexanone	10.768	43	217811	194.924 ug/l	94
60) Dibromochloromethane	10.920	129	90937	43.848 ug/l	99
61) 1,2-Dibromoethane	11.018	107	67109	45.063 ug/l	97
64) Tetrachloroethene	10.652	164	113100	43.293 ug/l	98
65) Chlorobenzene	11.444	112	283359	44.437 ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.524	131	94723	43.210 ug/l	99
67) Ethyl Benzene	11.524	91	523292	43.819 ug/l	98
68) m/p-Xylenes	11.633	106	399035	88.675 ug/l	96
69) o-Xylene	11.956	106	185624	43.599 ug/l	98
70) Styrene	11.975	104	313641	43.672 ug/l	98
71) Bromoform	12.133	173	49811	42.098 ug/l #	98
73) Isopropylbenzene	12.261	105	485733	42.989 ug/l	100
74) N-amyl acetate	12.072	43	119672	37.033 ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.511	83	76541	44.048 ug/l	100
76) 1,2,3-Trichloropropane	12.560	75	106870	77.345 ug/l #	100
77) Bromobenzene	12.536	156	100985	41.846 ug/l	97
78) n-propylbenzene	12.596	91	586097	43.005 ug/l	99
79) 2-Chlorotoluene	12.682	91	310255	41.425 ug/l	99
80) 1,3,5-Trimethylbenzene	12.743	105	381079	41.781 ug/l	98
81) trans-1,4-Dichloro-2-b...	12.310	75	25891	37.959 ug/l	96
82) 4-Chlorotoluene	12.779	91	321059	41.677 ug/l	98
83) tert-Butylbenzene	12.999	119	354869	43.775 ug/l	96
84) 1,2,4-Trimethylbenzene	13.048	105	375722	41.497 ug/l	97
85) sec-Butylbenzene	13.182	105	519118	43.138 ug/l	100
86) p-Isopropyltoluene	13.291	119	426187	42.109 ug/l	99
87) 1,3-Dichlorobenzene	13.291	146	207744	42.169 ug/l	98
88) 1,4-Dichlorobenzene	13.371	146	197220	41.619 ug/l	98
89) n-Butylbenzene	13.621	91	405742	42.375 ug/l	99
90) Hexachloroethane	13.883	117	85386	41.793 ug/l	96
91) 1,2-Dichlorobenzene	13.663	146	174496	42.169 ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.279	75	11065	39.489 ug/l	97
93) 1,2,4-Trichlorobenzene	14.925	180	91115	38.119 ug/l	98
94) Hexachlorobutadiene	15.023	225	54038	40.539 ug/l	99
95) Naphthalene	15.145	128	181330	39.976 ug/l	99
96) 1,2,3-Trichlorobenzene	15.334	180	77428	38.184 ug/l	98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022419.D
Acq On : 23 May 2025 20:20
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Quant Time: May 23 23:26:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration

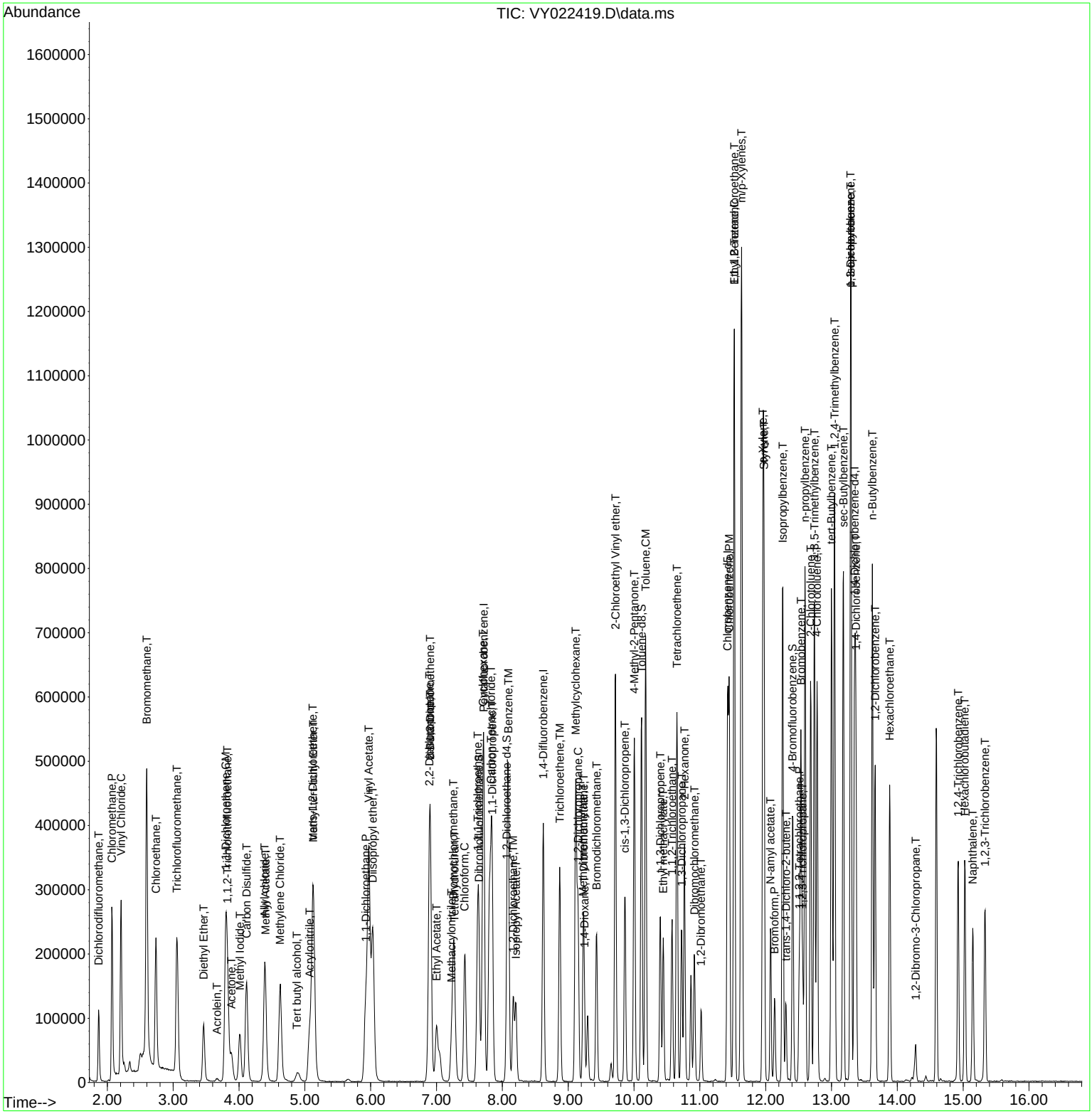
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

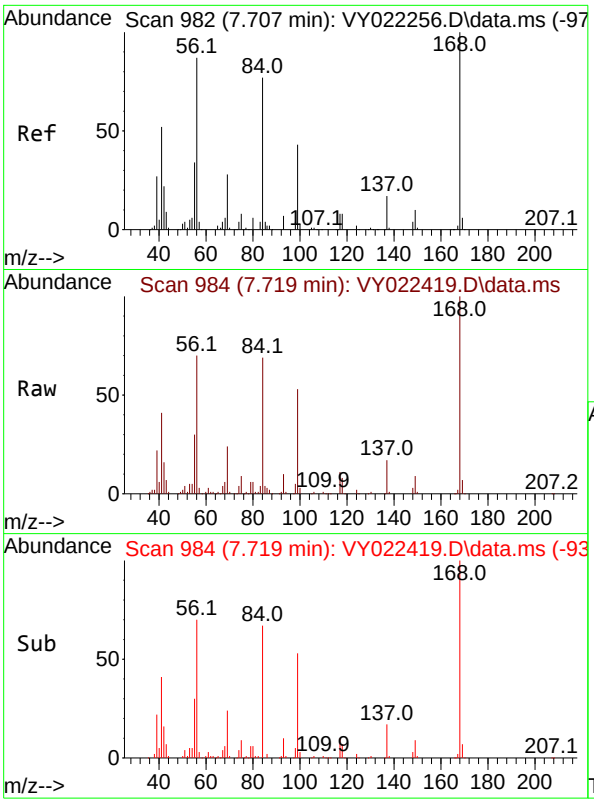
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052325\
Data File : VY022419.D
Acq On : 23 May 2025 20:20
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Quant Time: May 23 23:26:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y051525S.M
Quant Title : SW846 8260
QLast Update : Fri May 16 01:42:09 2025
Response via : Initial Calibration



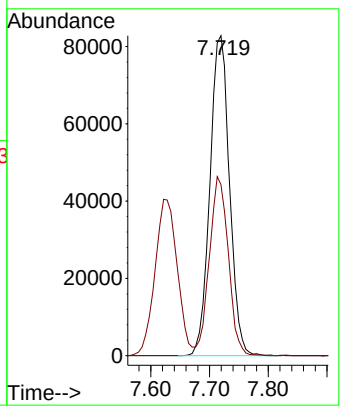


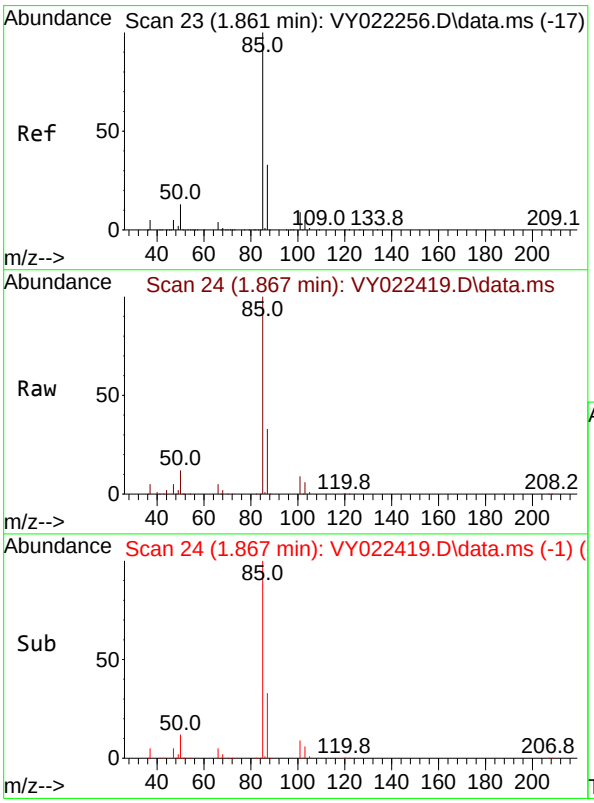
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.719 min Scan# 9
Delta R.T. 0.012 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:168 Resp: 191491

Ion	Ratio	Lower	Upper
168	100		
99	53.5	44.2	66.4

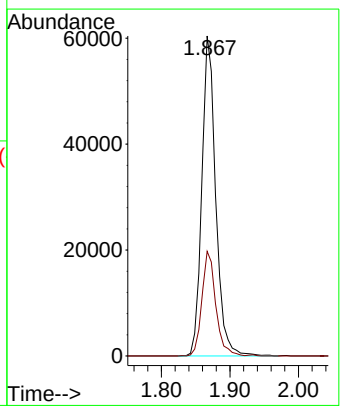


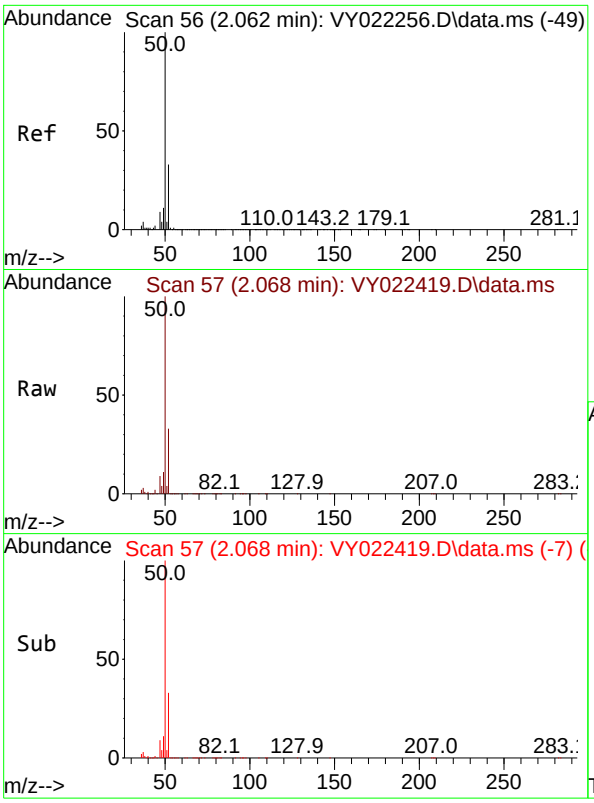


#2
Dichlorodifluoromethane
Concen: 42.715 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Tgt Ion: 85 Resp: 85350

Ion	Ratio	Lower	Upper
85	100		
87	32.7	16.5	49.5



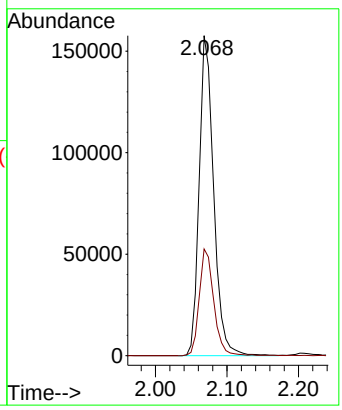


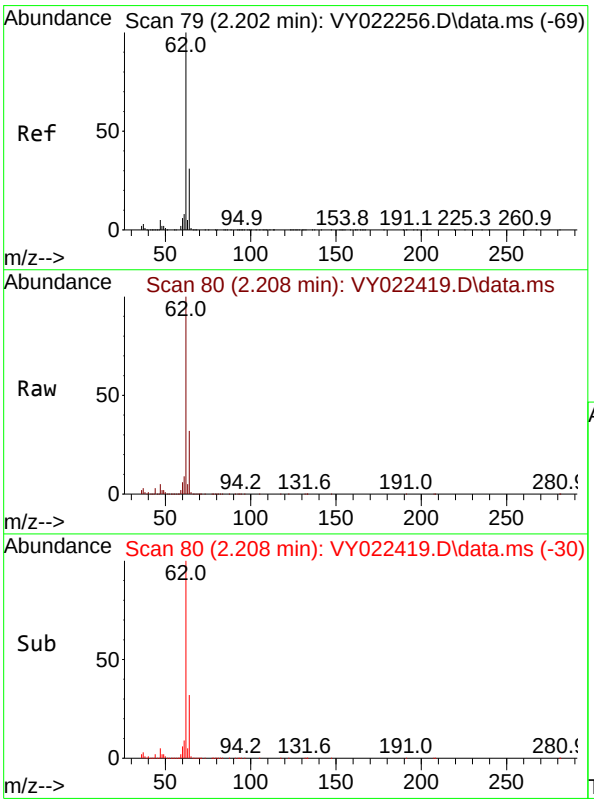
#3
Chloromethane
Concen: 52.703 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 50 Resp: 221521

Ion	Ratio	Lower	Upper
50	100		
52	33.4	26.5	39.7

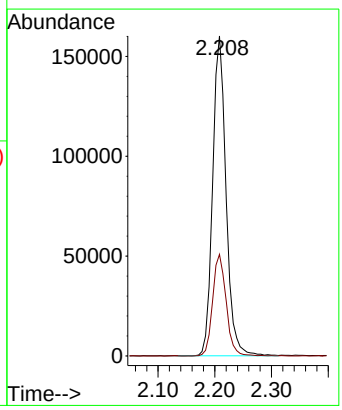


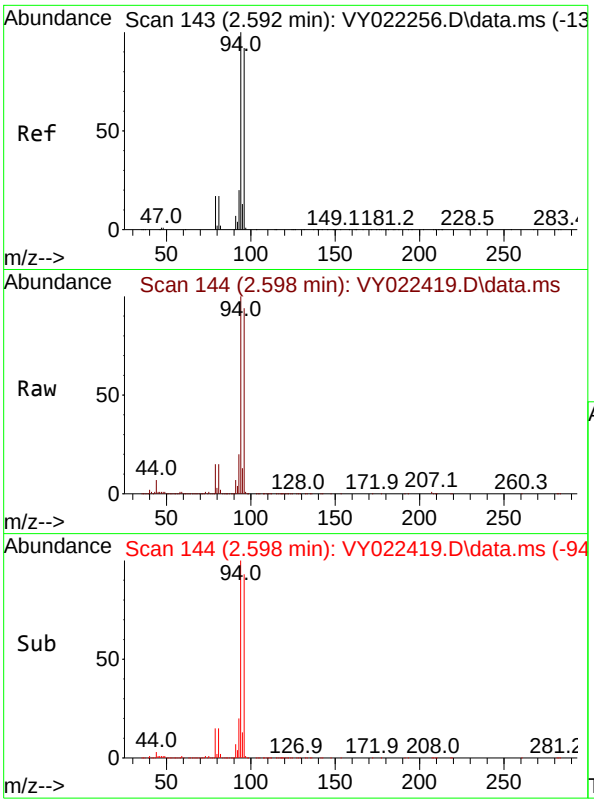


#4
Vinyl Chloride
Concen: 55.931 ug/l
RT: 2.208 min Scan# 80
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Tgt Ion: 62 Resp: 262650

Ion	Ratio	Lower	Upper
62	100		
64	31.7	24.5	36.7



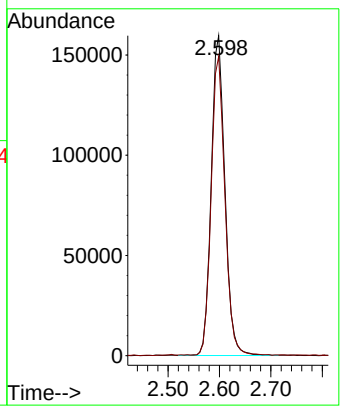


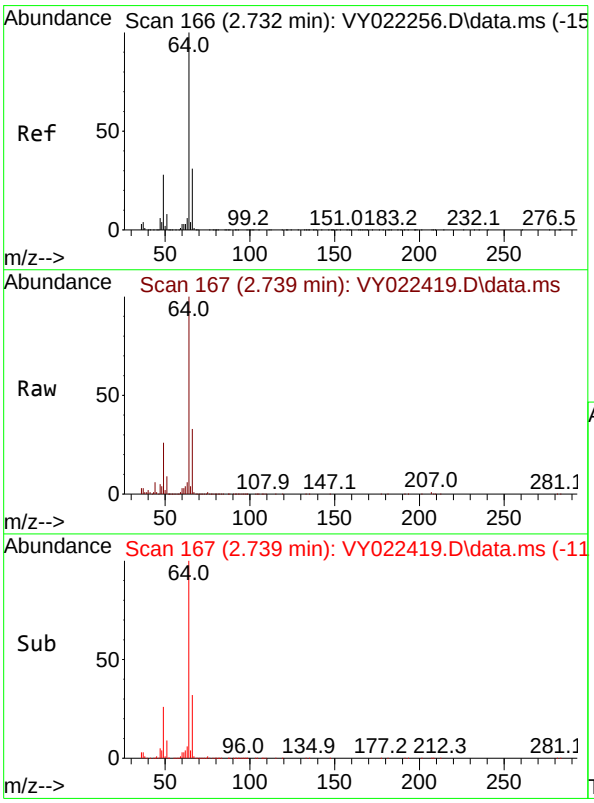
#5
Bromomethane
Concen: 77.196 ug/l
RT: 2.598 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 94 Resp: 295104

Ion	Ratio	Lower	Upper
94	100		
96	93.3	73.4	110.0

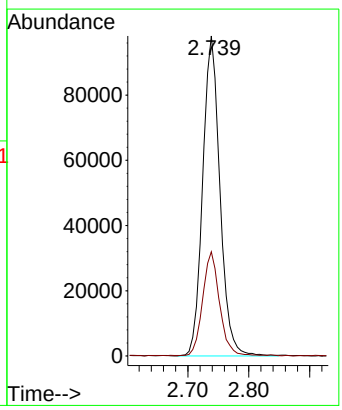


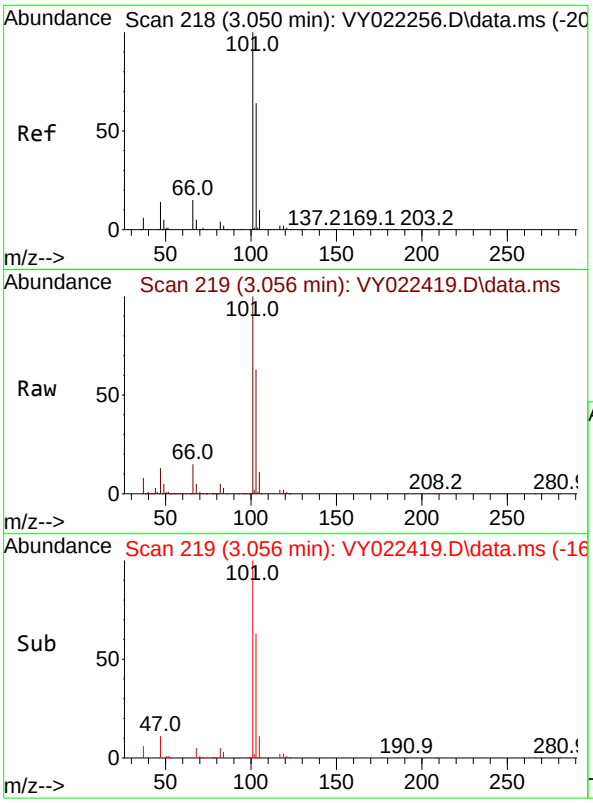


#6
Chloroethane
Concen: 66.079 ug/l
RT: 2.739 min Scan# 167
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Tgt Ion: 64 Resp: 193048

Ion	Ratio	Lower	Upper
64	100		
66	32.5	24.8	37.2



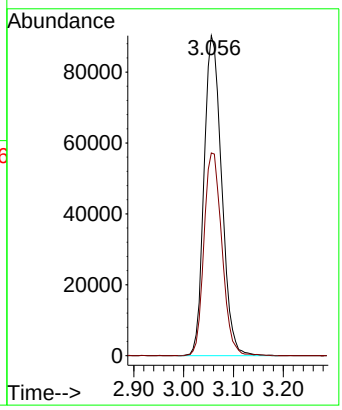


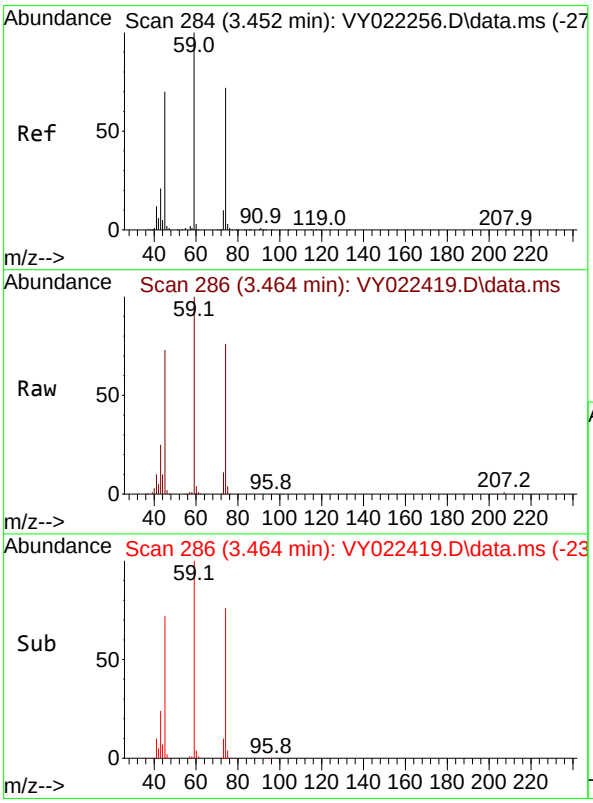
#7
Trichlorofluoromethane
Concen: 46.526 ug/l
RT: 3.056 min Scan# 21
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:101 Resp: 221208

Ion	Ratio	Lower	Upper
101	100		
103	63.4	51.7	77.5

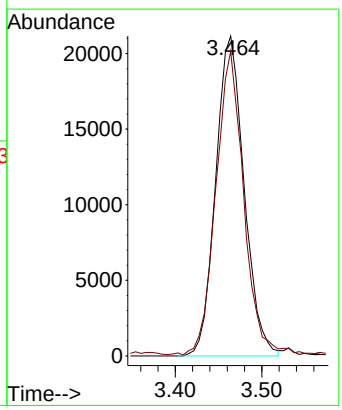


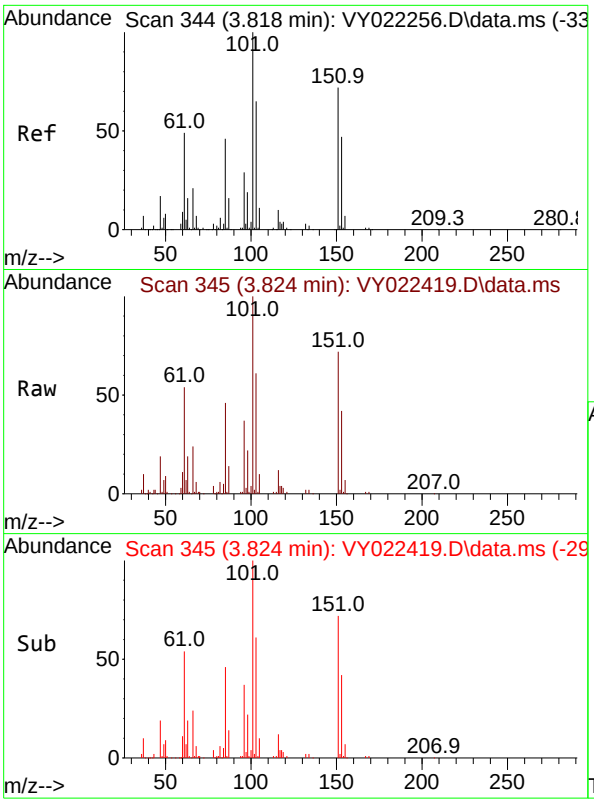


#8
Diethyl Ether
Concen: 42.282 ug/l
RT: 3.464 min Scan# 286
Delta R.T. 0.012 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Tgt Ion: 74 Resp: 48244

Ion	Ratio	Lower	Upper
74	100		
45	92.6	48.6	145.8



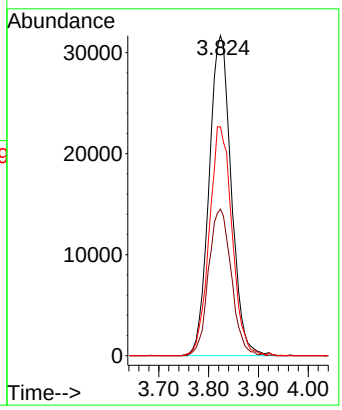


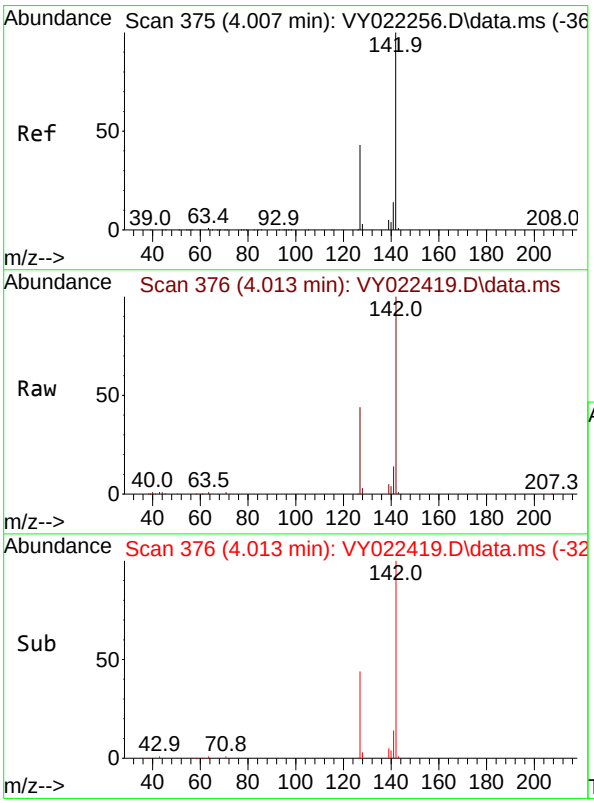
#9
1,1,2-Trichlorotrifluoroethane
Concen: 47.464 ug/l
RT: 3.824 min Scan# 34
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:101 Resp: 97970

Ion	Ratio	Lower	Upper
101	100		
85	46.9	38.6	58.0
151	73.3	59.7	89.5

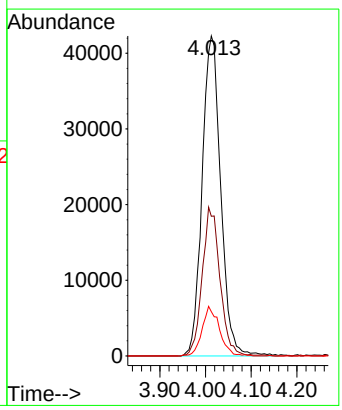


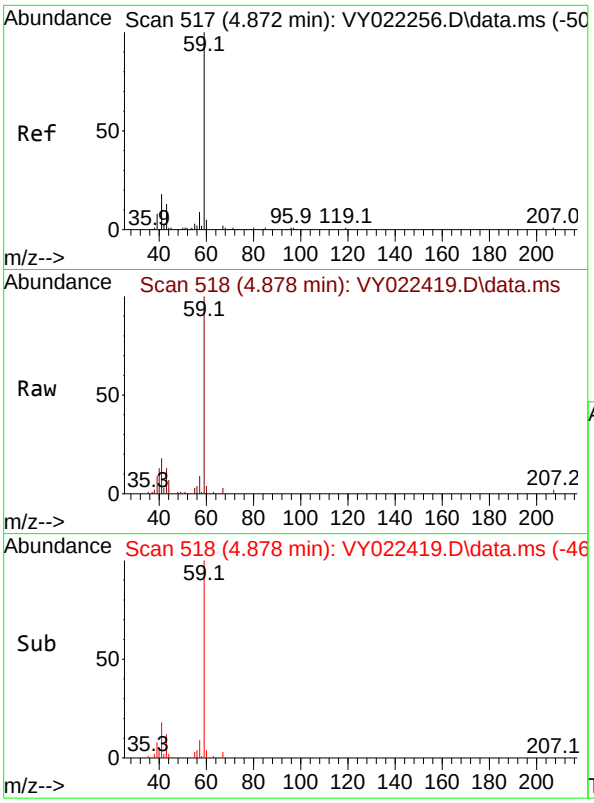


#10
Methyl Iodide
Concen: 50.020 ug/l
RT: 4.013 min Scan# 376
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Tgt Ion:142 Resp: 119495

Ion	Ratio	Lower	Upper
142	100		
127	44.3	35.7	53.5
141	14.5	11.1	16.7



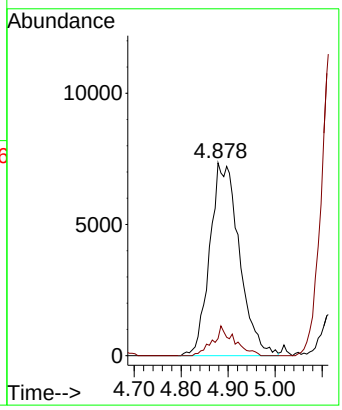


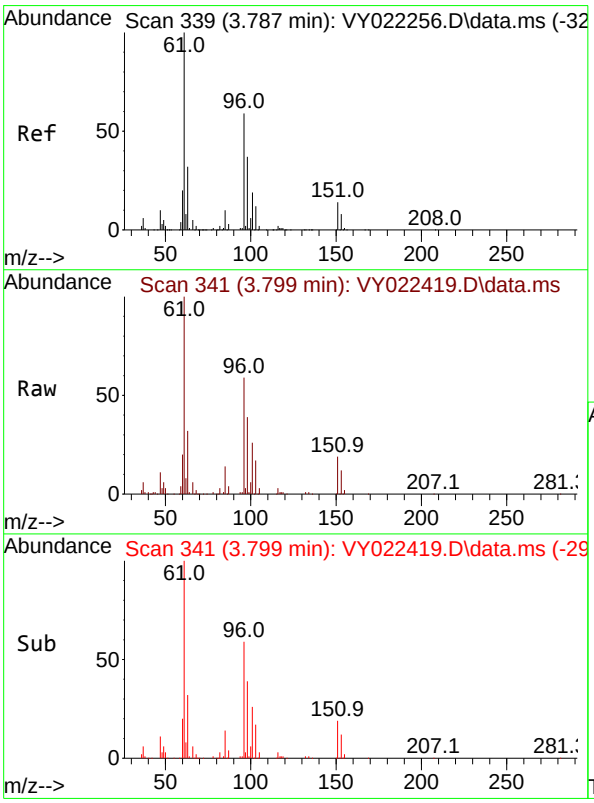
#11
Tert butyl alcohol
Concen: 200.319 ug/l
RT: 4.878 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 59 Resp: 32014

Ion	Ratio	Lower	Upper
59	100		
57	11.2	0.0	0.0#

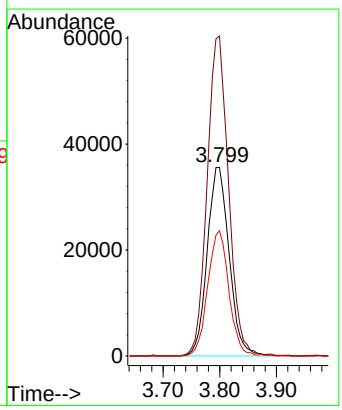


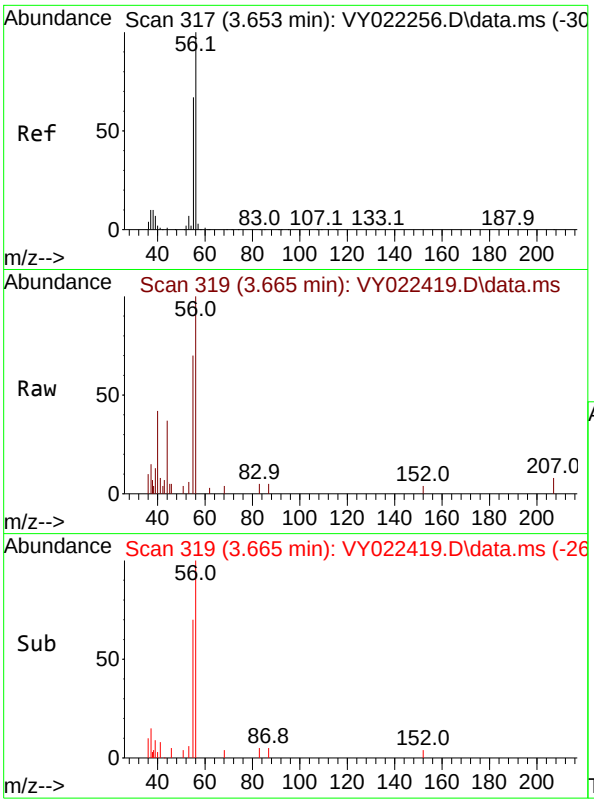


#12
1,1-Dichloroethene
Concen: 46.730 ug/l
RT: 3.799 min Scan# 341
Delta R.T. 0.012 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Tgt Ion: 96 Resp: 95717

Ion	Ratio	Lower	Upper
96	100		
61	169.6	134.9	202.3
98	66.3	49.9	74.9



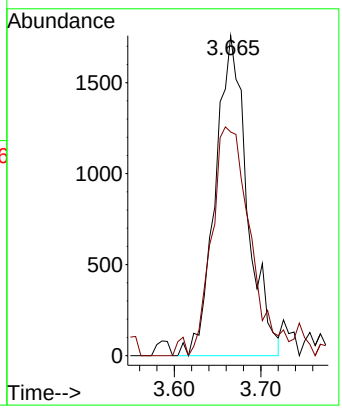


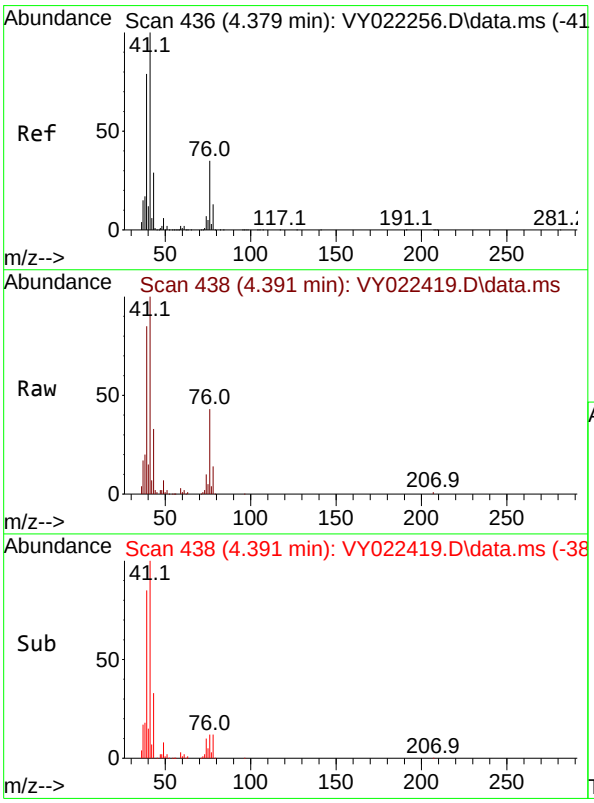
#13
Acrolein
Concen: 19.278 ug/l
RT: 3.665 min Scan# 3
Delta R.T. 0.012 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 56 Resp: 4504

Ion	Ratio	Lower	Upper
56	100		
55	85.3	55.6	83.4#

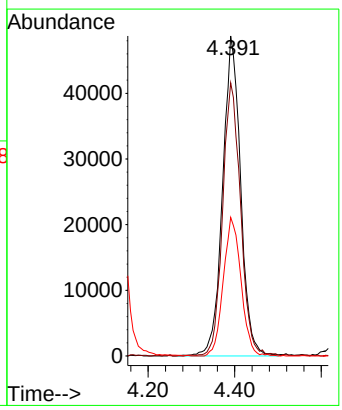


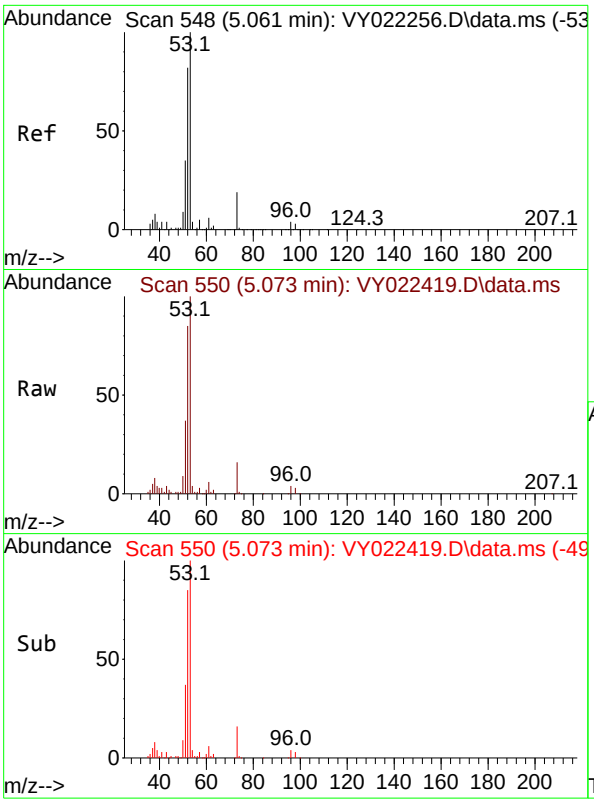


#14
Allyl chloride
Concen: 39.197 ug/l
RT: 4.391 min Scan# 438
Delta R.T. 0.012 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Tgt Ion: 41 Resp: 140777

Ion	Ratio	Lower	Upper
41	100		
39	85.1	63.4	95.0
76	42.5	29.5	44.3



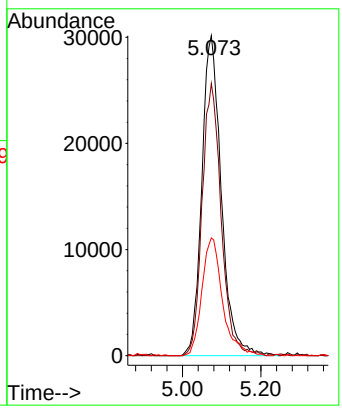


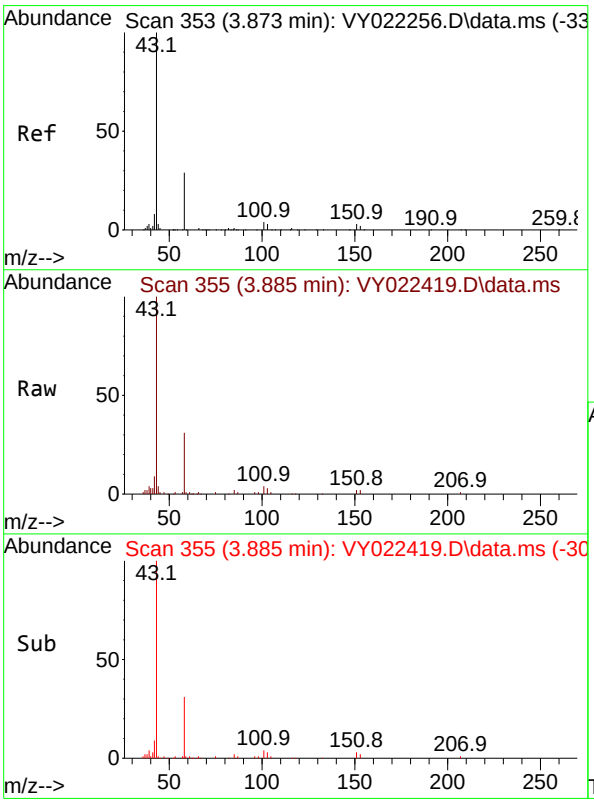
#15
Acrylonitrile
Concen: 221.651 ug/l
RT: 5.073 min Scan# 5
Delta R.T. 0.012 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 53 Resp: 104209

Ion	Ratio	Lower	Upper
53	100		
52	82.3	66.1	99.1
51	38.9	30.0	45.0

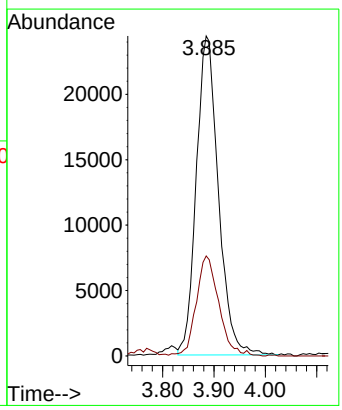


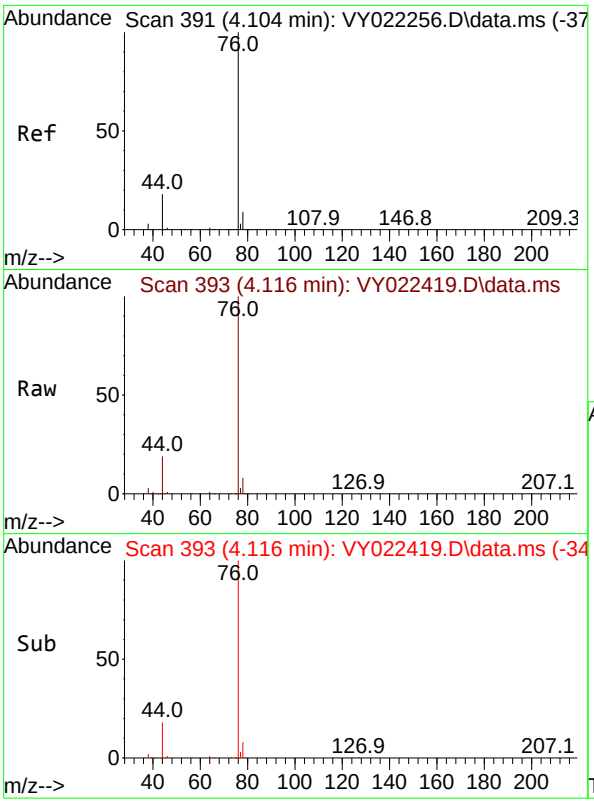


#16
Acetone
Concen: 185.705 ug/l
RT: 3.885 min Scan# 355
Delta R.T. 0.012 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Tgt Ion: 43 Resp: 72874

Ion	Ratio	Lower	Upper
43	100		
58	31.4	23.6	35.4



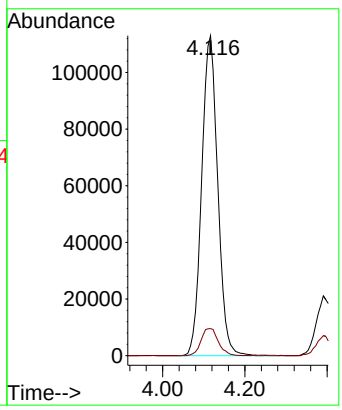


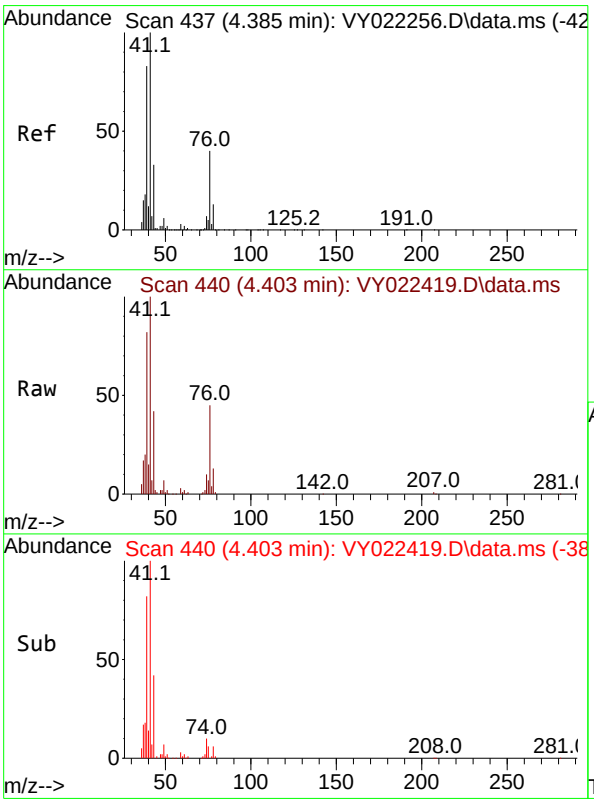
#17
Carbon Disulfide
Concen: 45.760 ug/l
RT: 4.116 min Scan# 3
Delta R.T. 0.012 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 76 Resp: 305645

Ion	Ratio	Lower	Upper
76	100		
78	8.5	7.2	10.8

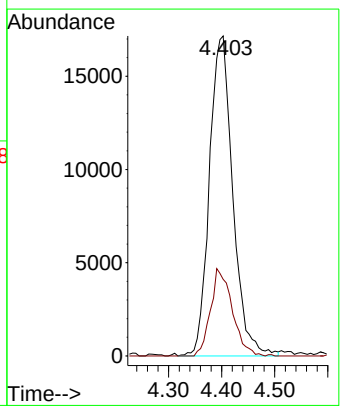


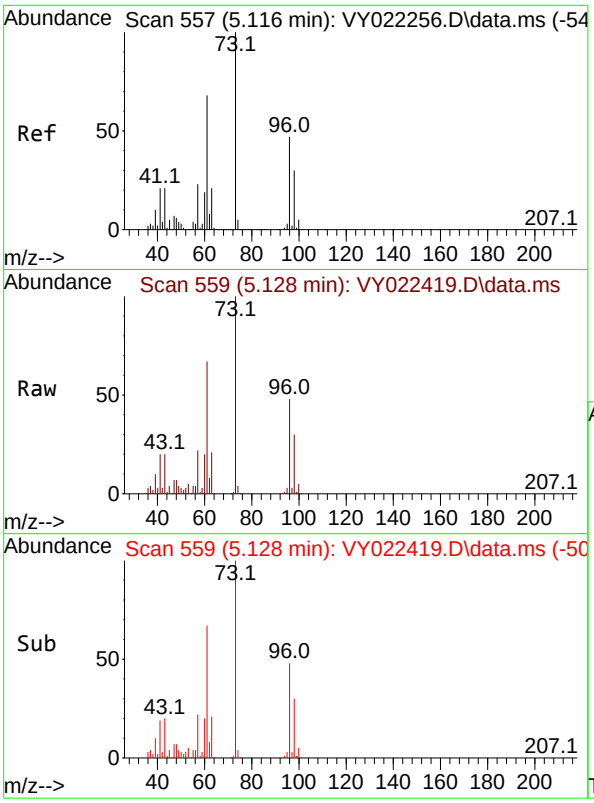


#18
Methyl Acetate
Concen: 42.450 ug/l
RT: 4.403 min Scan# 440
Delta R.T. 0.018 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Tgt Ion: 43 Resp: 52522

Ion	Ratio	Lower	Upper
43	100		
74	25.4	18.2	27.4



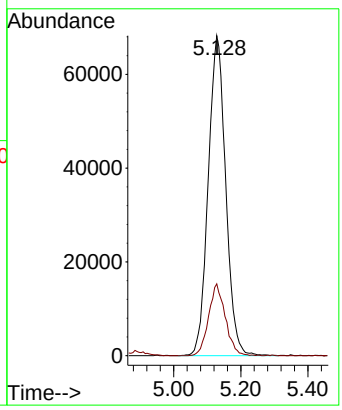


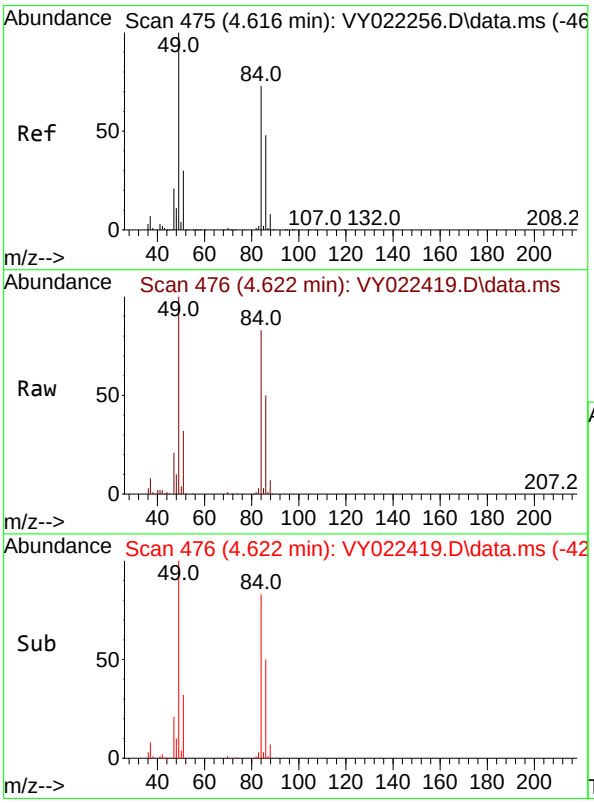
#19
Methyl tert-butyl Ether
Concen: 43.631 ug/l
RT: 5.128 min Scan# 5
Delta R.T. 0.012 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 73 Resp: 246420

Ion	Ratio	Lower	Upper
73	100		
57	22.4	18.6	28.0

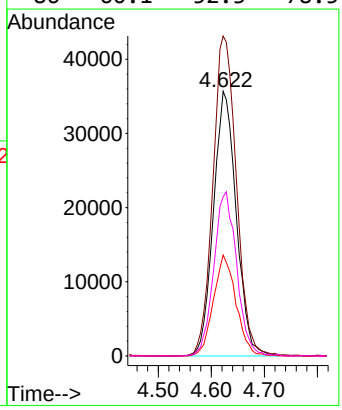


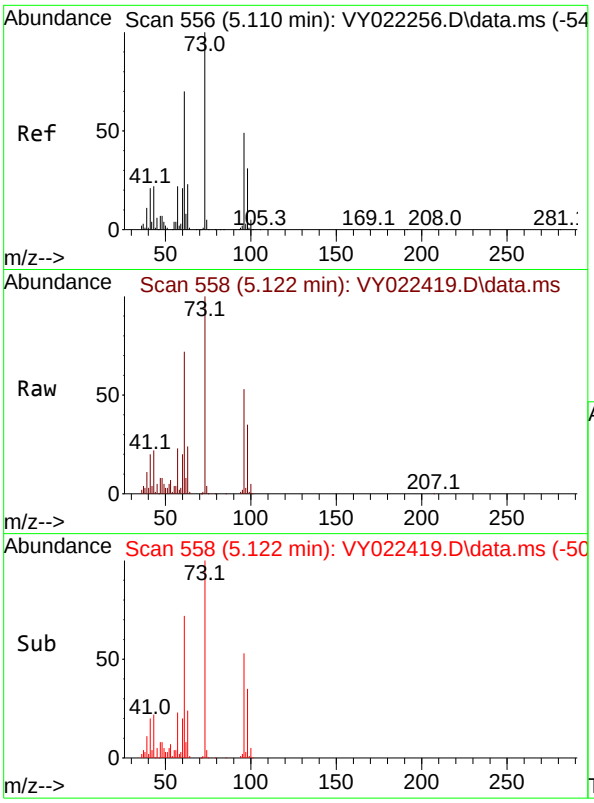


#20
Methylene Chloride
Concen: 42.087 ug/l
RT: 4.622 min Scan# 476
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Tgt Ion: 84 Resp: 106718

Ion	Ratio	Lower	Upper
84	100		
49	120.9	109.6	164.4
51	38.2	32.4	48.6
86	60.1	52.3	78.5



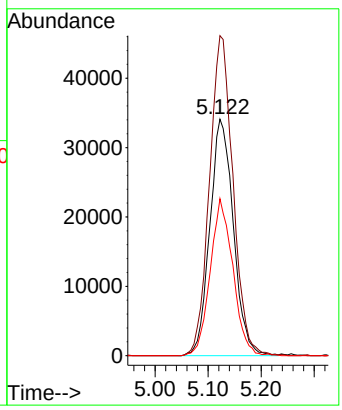


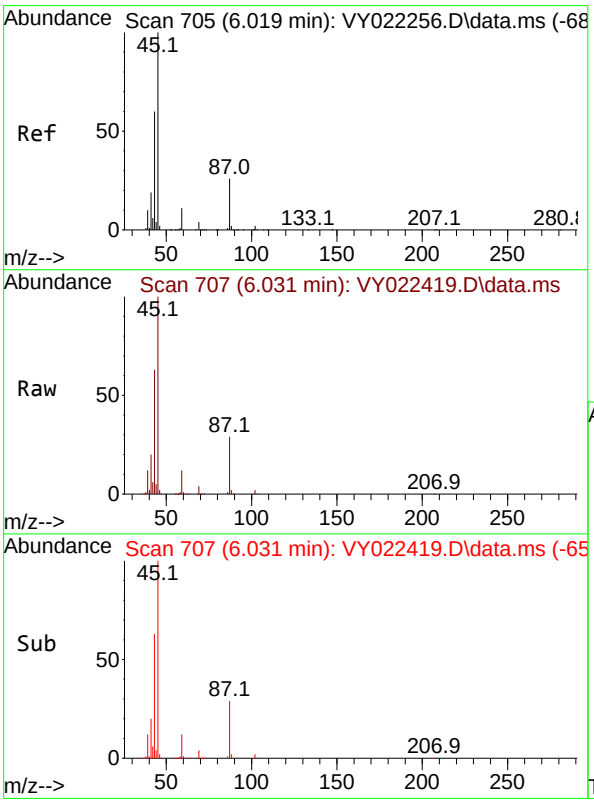
#21
trans-1,2-Dichloroethene
Concen: 46.530 ug/l
RT: 5.122 min Scan# 5
Delta R.T. 0.012 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 96 Resp: 105199

Ion	Ratio	Lower	Upper
96	100		
61	135.3	113.4	170.0
98	66.3	50.9	76.3

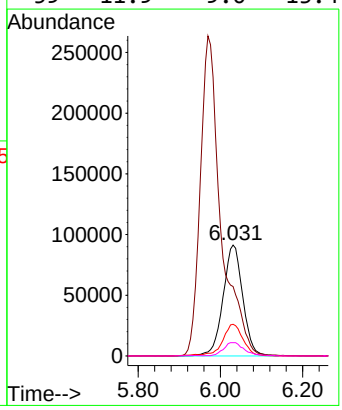


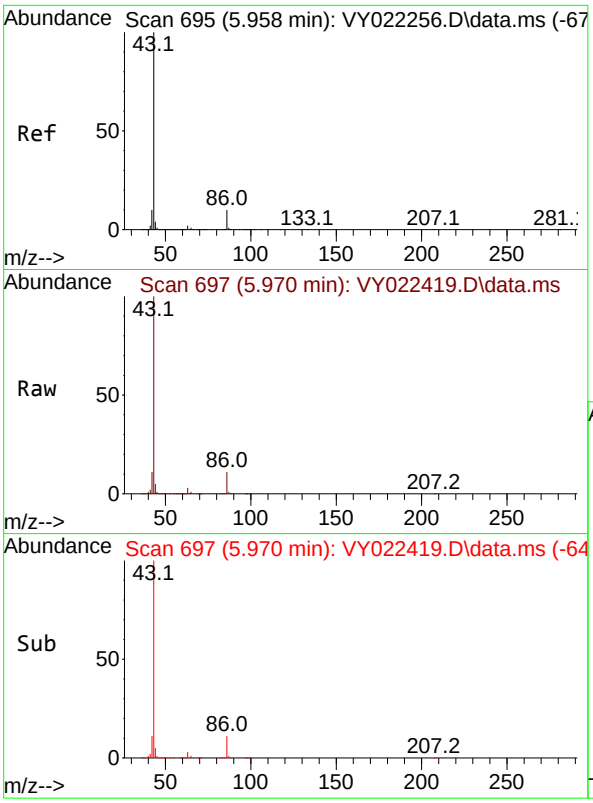


#22
Diisopropyl ether
Concen: 40.051 ug/l
RT: 6.031 min Scan# 707
Delta R.T. 0.012 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Tgt Ion: 45 Resp: 303766

Ion	Ratio	Lower	Upper
45	100		
43	62.5	48.2	72.2
87	28.5	21.4	32.0
59	11.9	9.0	13.4



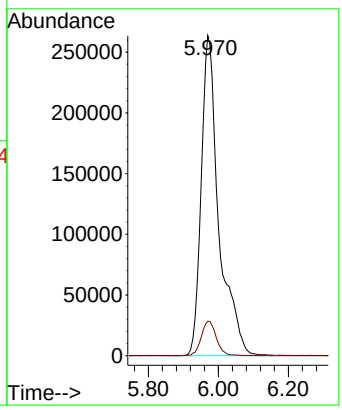


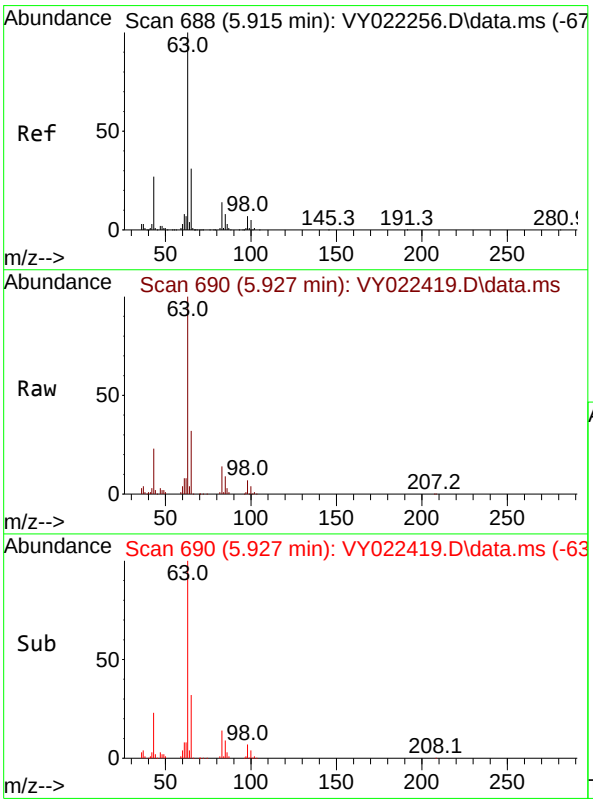
#23
Vinyl Acetate
Concen: 201.158 ug/l
RT: 5.970 min Scan# 6
Delta R.T. 0.012 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 921723

Ion	Ratio	Lower	Upper
43	100		
86	10.8	7.8	11.8

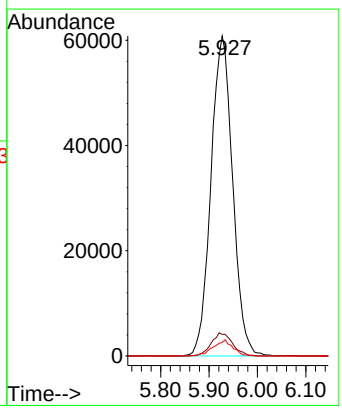


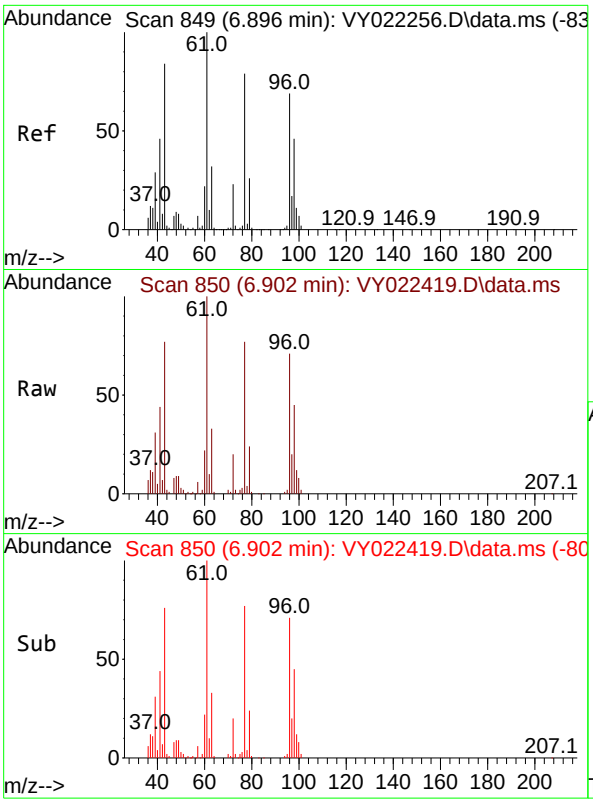


#24
1,1-Dichloroethane
Concen: 44.752 ug/l
RT: 5.927 min Scan# 690
Delta R.T. 0.012 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Tgt Ion: 63 Resp: 189630

Ion	Ratio	Lower	Upper
63	100		
98	6.7	3.5	10.5
100	4.2	2.4	7.2



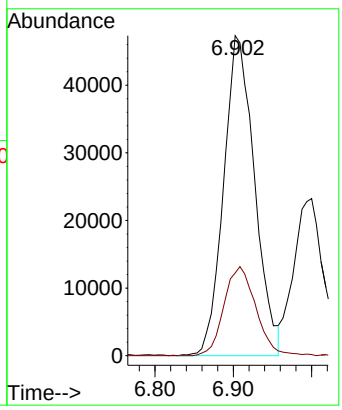


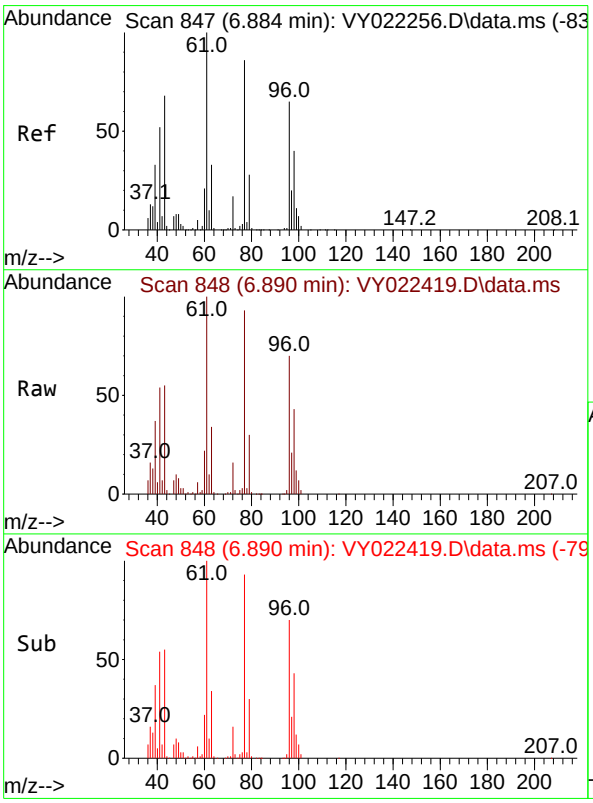
#25
2-Butanone
Concen: 198.161 ug/l
RT: 6.902 min Scan# 8
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 130073

Ion	Ratio	Lower	Upper
43	100		
72	25.8	22.1	33.1

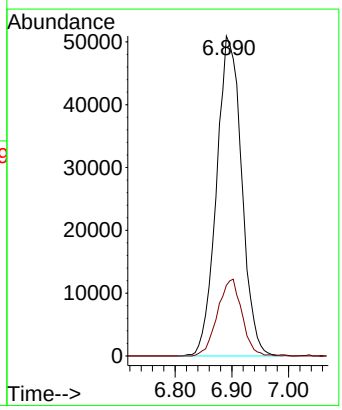


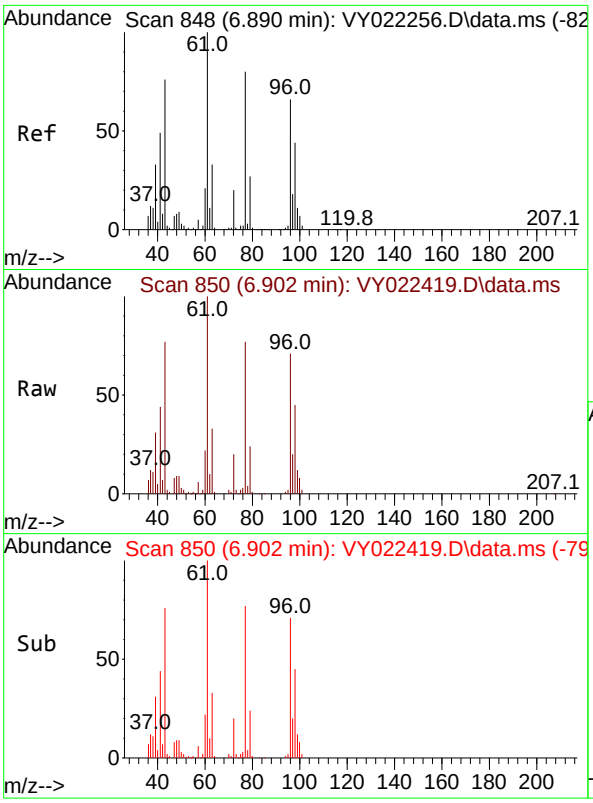


#26
2,2-Dichloropropane
Concen: 41.607 ug/l
RT: 6.890 min Scan# 848
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Tgt Ion: 77 Resp: 156811

Ion	Ratio	Lower	Upper
77	100		
97	23.3	11.2	33.5



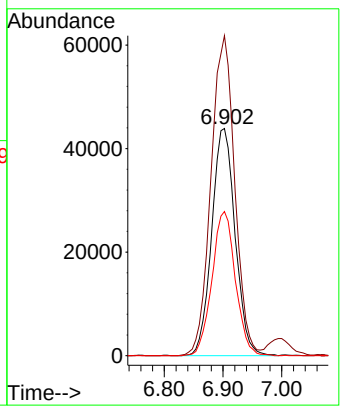


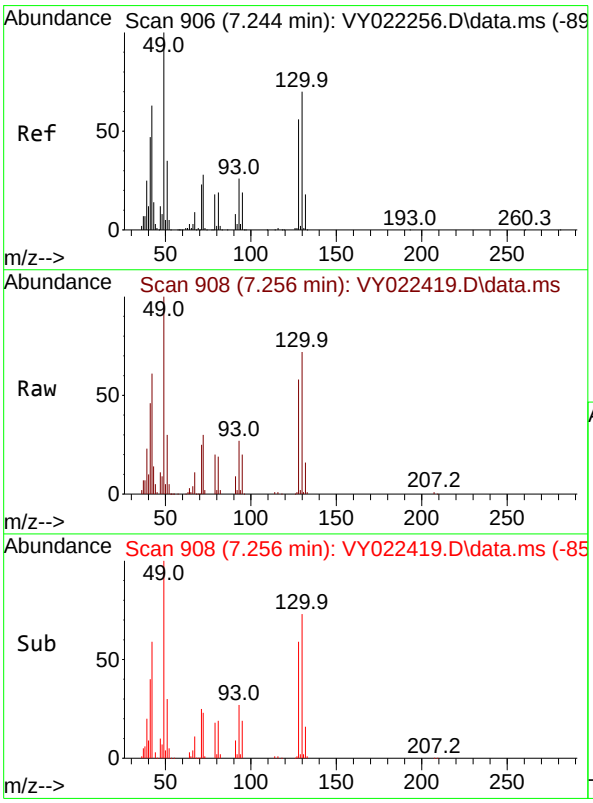
#27
cis-1,2-Dichloroethene
Concen: 46.584 ug/l
RT: 6.902 min Scan# 8
Delta R.T. 0.012 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 96 Resp: 121537

Ion	Ratio	Lower	Upper
96	100		
61	143.1	0.0	302.6
98	63.4	0.0	128.8

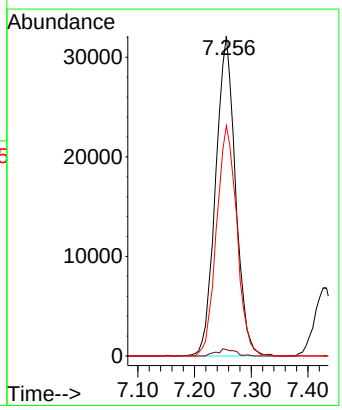


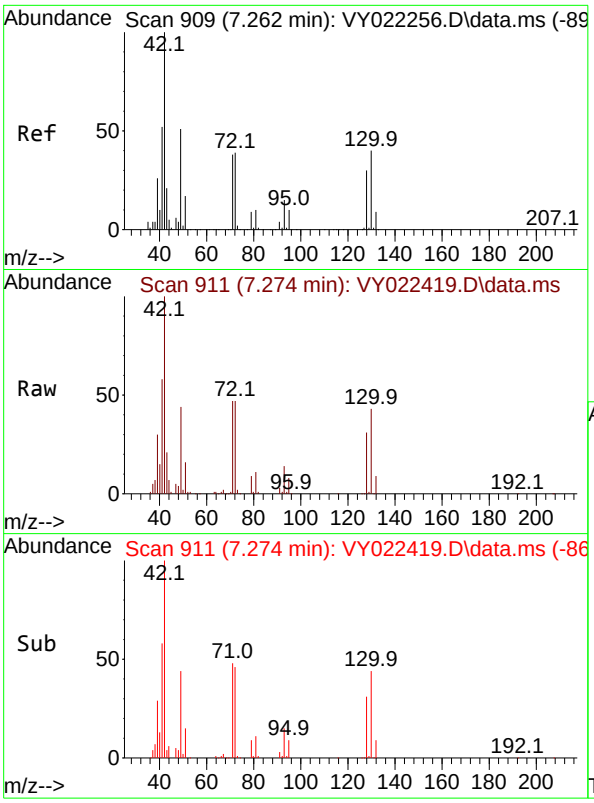


#28
Bromochloromethane
Concen: 43.281 ug/l
RT: 7.256 min Scan# 908
Delta R.T. 0.012 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Tgt Ion: 49 Resp: 78227

Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	3.6
130	73.7	54.7	82.1



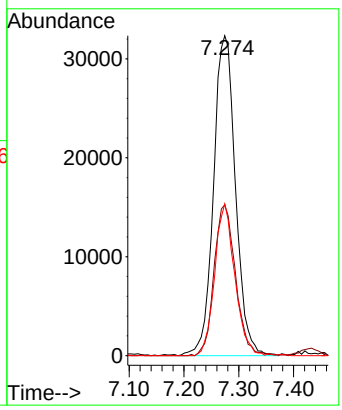


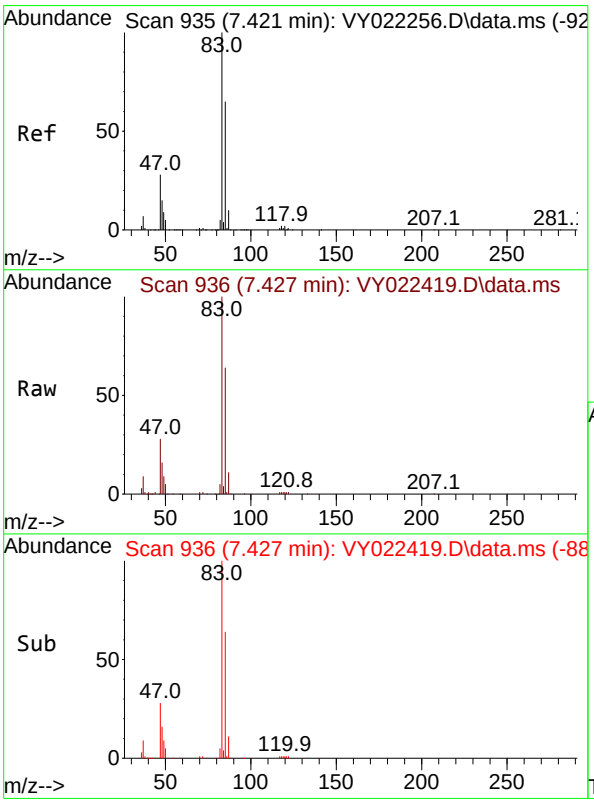
#29
Tetrahydrofuran
Concen: 213.305 ug/l
RT: 7.274 min Scan# 91
Delta R.T. 0.012 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 42 Resp: 90078

Ion	Ratio	Lower	Upper
42	100		
72	46.1	33.8	50.6
71	43.4	31.5	47.3

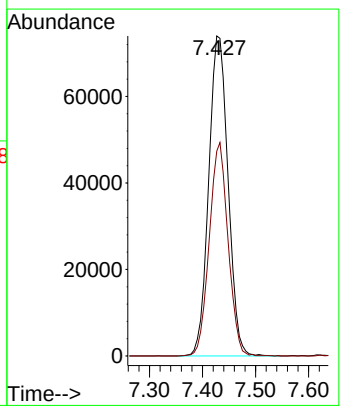


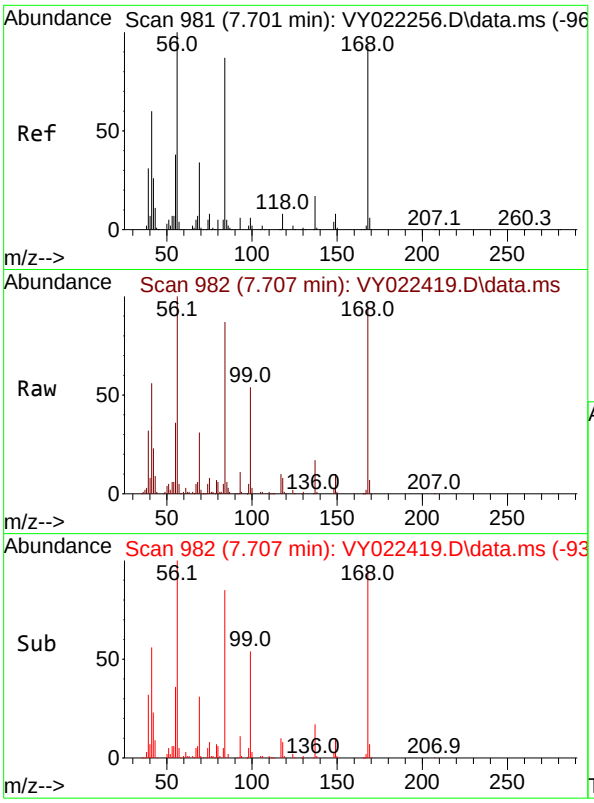


#30
Chloroform
Concen: 46.074 ug/l
RT: 7.427 min Scan# 936
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Tgt Ion: 83 Resp: 187262

Ion	Ratio	Lower	Upper
83	100		
85	64.0	51.8	77.8



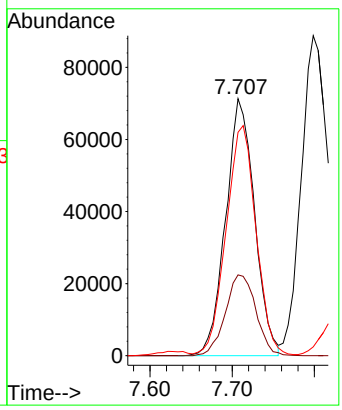


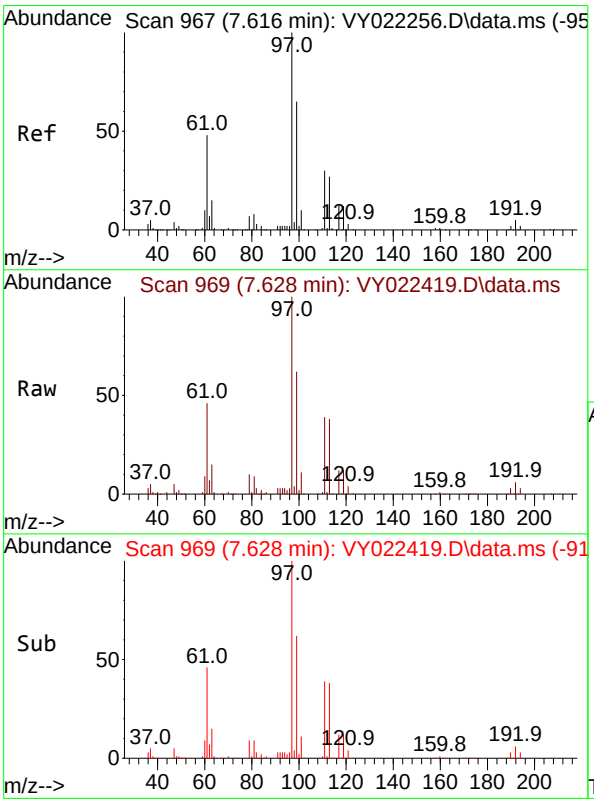
#31
Cyclohexane
Concen: 41.170 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 56 Resp: 174300

Ion	Ratio	Lower	Upper
56	100		
69	31.4	27.4	41.2
84	85.4	70.0	105.0

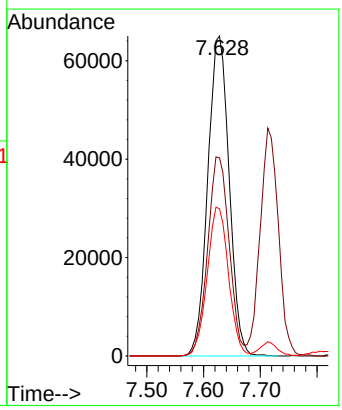


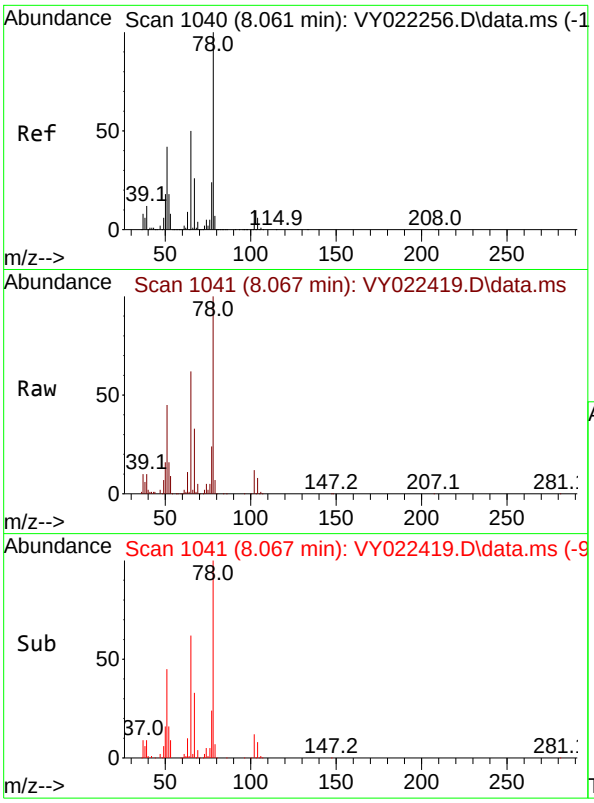


#32
1,1,1-Trichloroethane
Concen: 45.640 ug/l
RT: 7.628 min Scan# 969
Delta R.T. 0.012 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Tgt Ion: 97 Resp: 170185

Ion	Ratio	Lower	Upper
97	100		
99	62.6	51.4	77.0
61	46.6	38.1	57.1



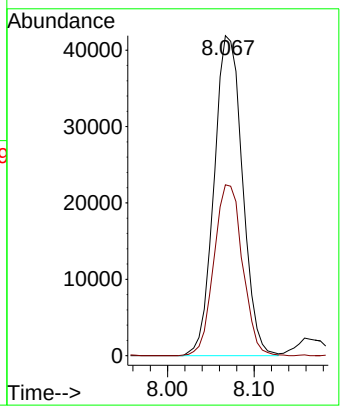


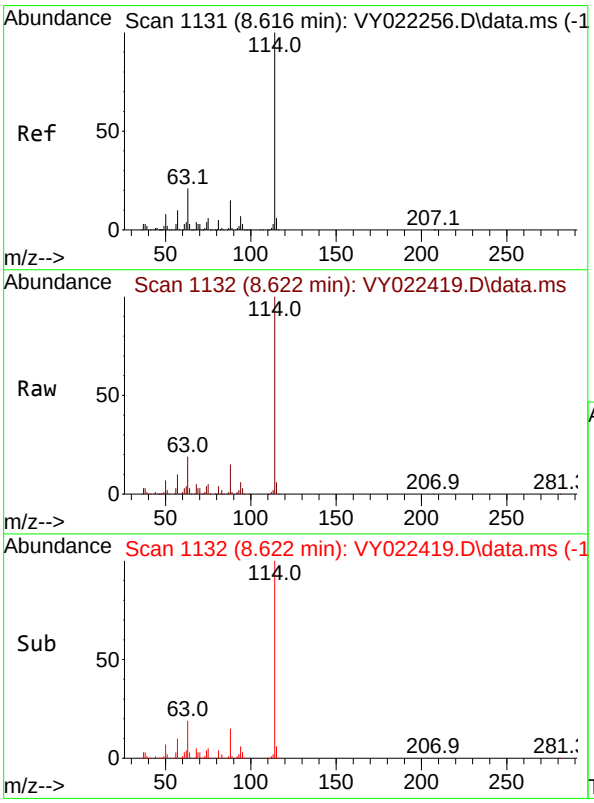
#33
1,2-Dichloroethane-d4
Concen: 45.542 ug/l
RT: 8.067 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 65 Resp: 95312

Ion	Ratio	Lower	Upper
65	100		
67	53.9	0.0	104.6

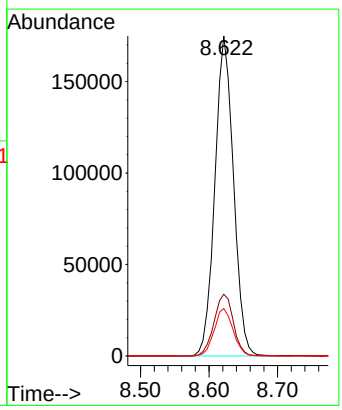


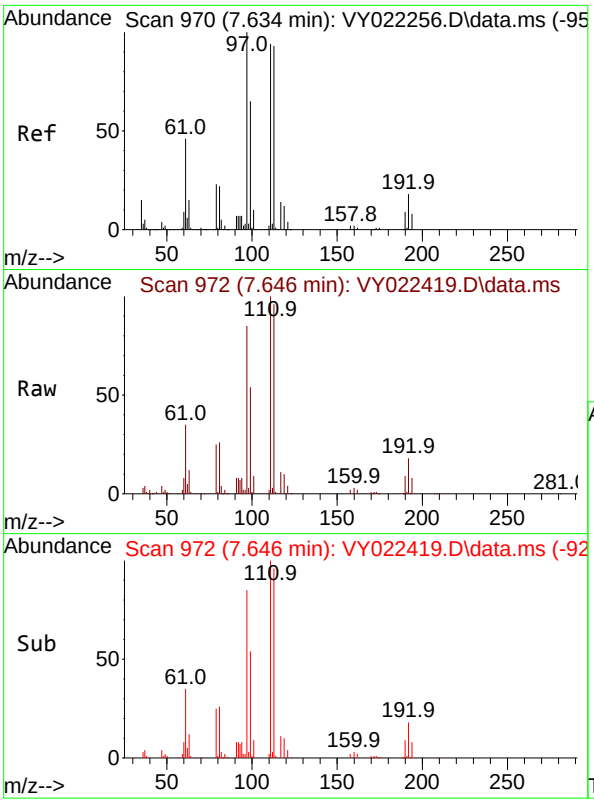


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.622 min Scan# 1132
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Tgt Ion:114 Resp: 329252

Ion	Ratio	Lower	Upper
114	100		
63	19.3	0.0	41.0
88	14.8	0.0	29.4



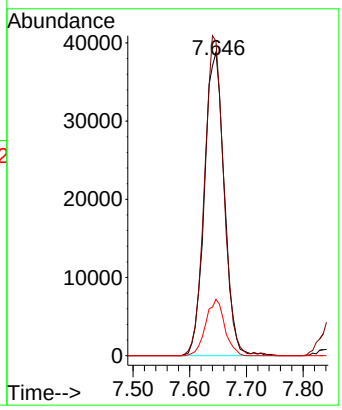


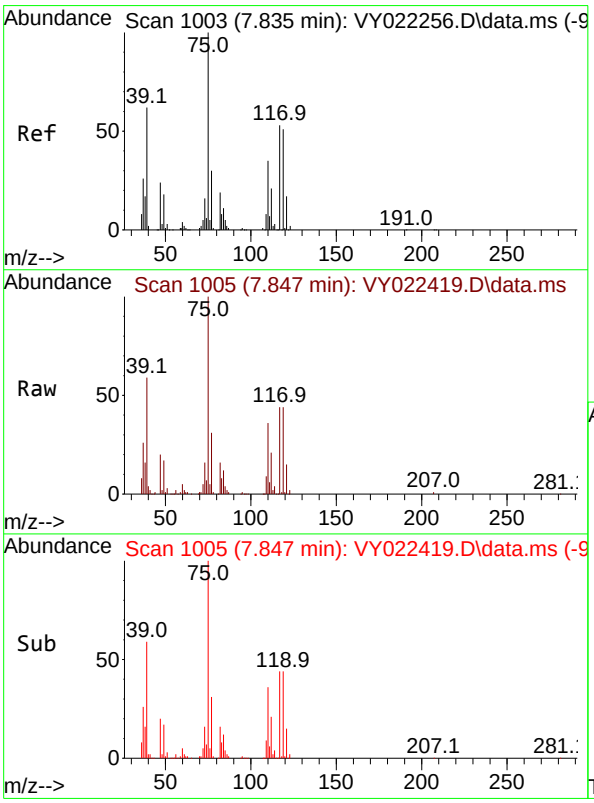
#35
Dibromofluoromethane
Concen: 47.819 ug/l
RT: 7.646 min Scan# 9
Delta R.T. 0.012 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:113 Resp: 93973

Ion	Ratio	Lower	Upper
113	100		
111	102.2	82.6	123.8
192	17.9	15.2	22.8

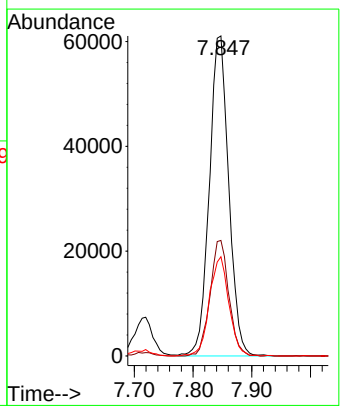


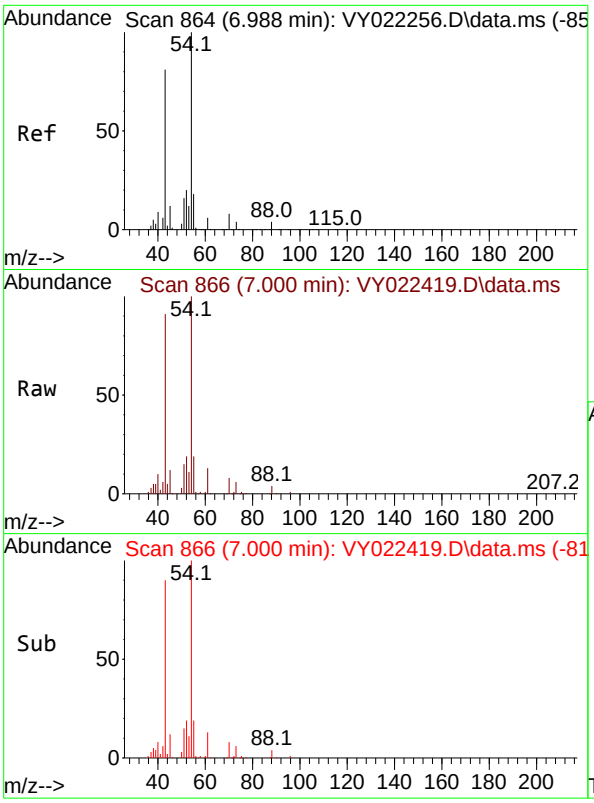


#36
1,1-Dichloropropene
Concen: 43.362 ug/l
RT: 7.847 min Scan# 1005
Delta R.T. 0.012 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Tgt Ion: 75 Resp: 140355

Ion	Ratio	Lower	Upper
75	100		
110	35.0	16.6	49.8
77	31.2	24.6	37.0



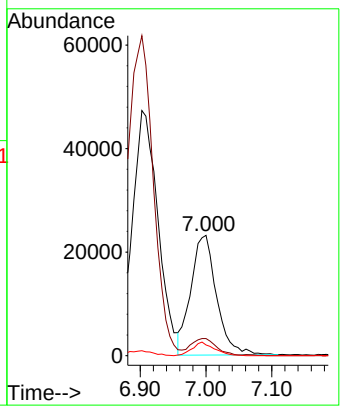


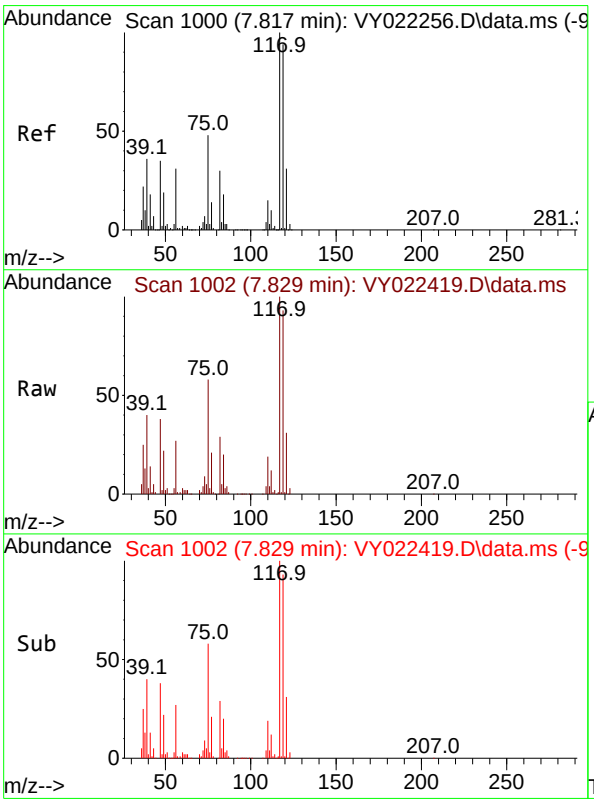
#37
Ethyl Acetate
Concen: 40.379 ug/l
RT: 7.000 min Scan# 8
Delta R.T. 0.012 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 62887

Ion	Ratio	Lower	Upper
43	100		
61	13.5	10.2	15.2
70	9.7	7.6	11.4

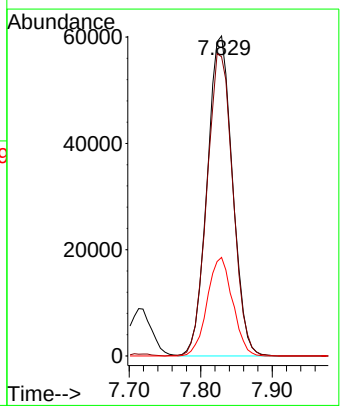


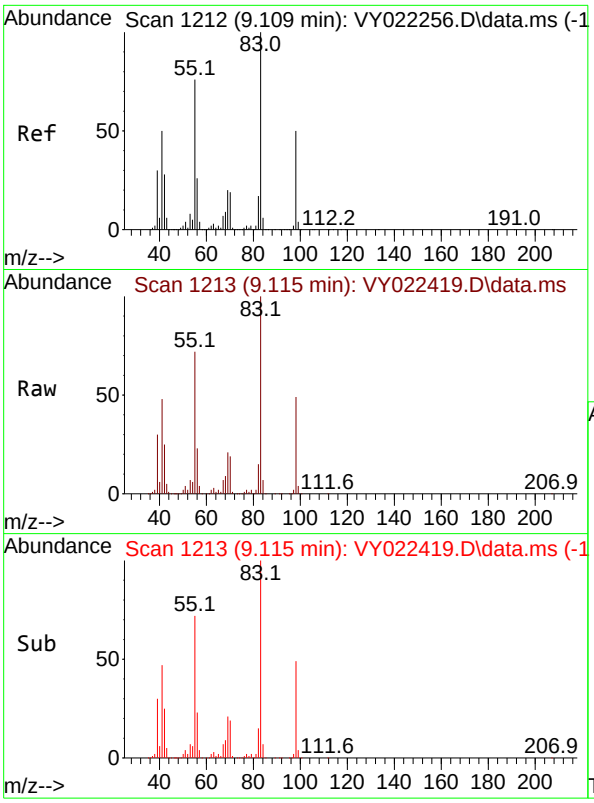


#38
Carbon Tetrachloride
Concen: 44.228 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. 0.012 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Tgt Ion:117 Resp: 148187

Ion	Ratio	Lower	Upper
117	100		
119	93.5	75.3	112.9
121	30.8	24.7	37.1



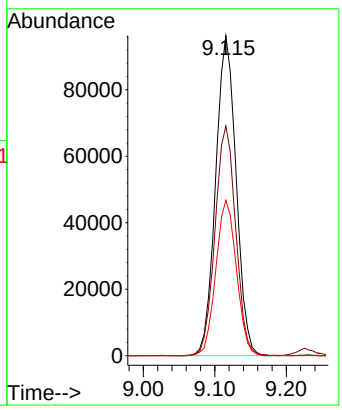


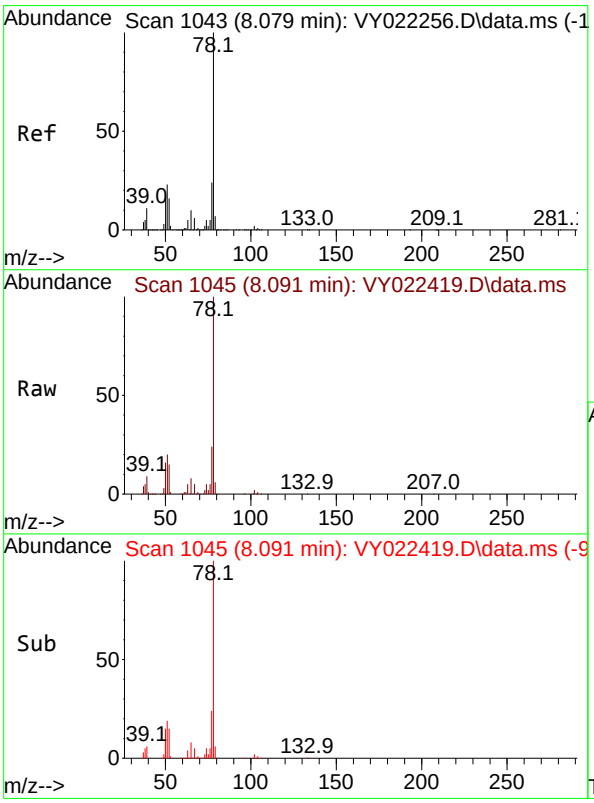
#39
Methylcyclohexane
Concen: 44.025 ug/l
RT: 9.115 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 191450

Ion	Ratio	Lower	Upper
83	100		
55	71.8	60.6	90.8
98	48.6	40.0	60.0

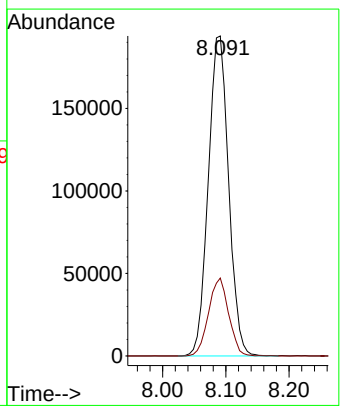


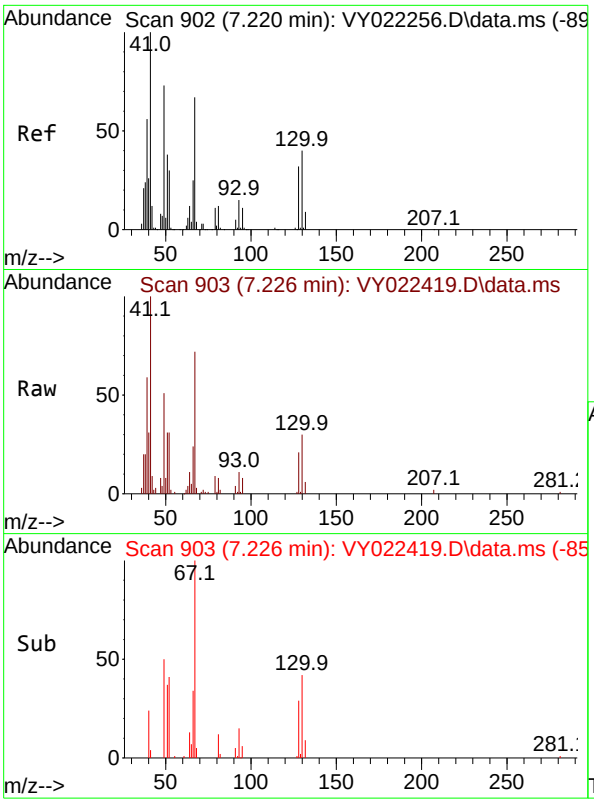


#40
Benzene
Concen: 45.061 ug/l
RT: 8.091 min Scan# 1045
Delta R.T. 0.012 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Tgt Ion: 78 Resp: 432393

Ion	Ratio	Lower	Upper
78	100		
77	24.3	18.9	28.3



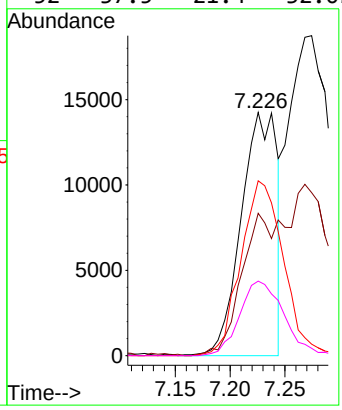


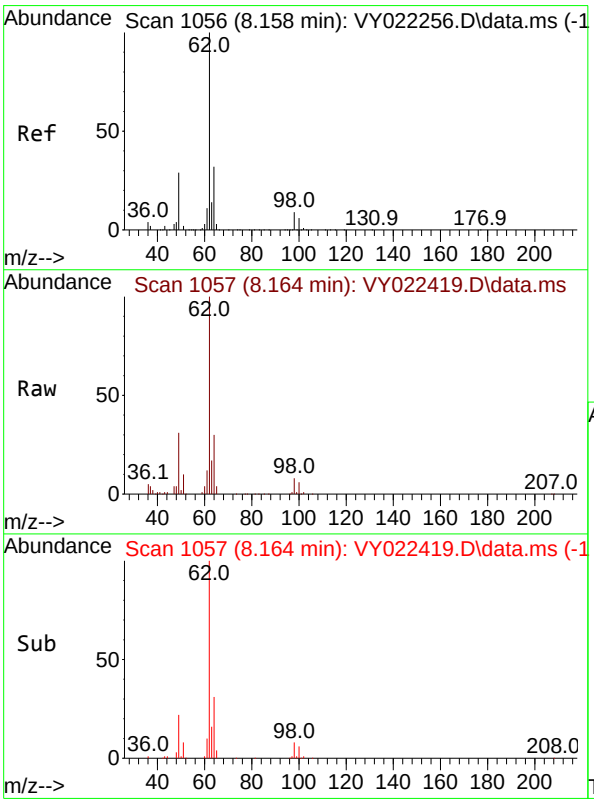
#41
Methacrylonitrile
Concen: 31.533 ug/l
RT: 7.226 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 41 Resp: 32577

Ion	Ratio	Lower	Upper
41	100		
39	48.9	39.1	58.7
67	85.2	47.1	70.7#
52	37.5	21.4	32.0#

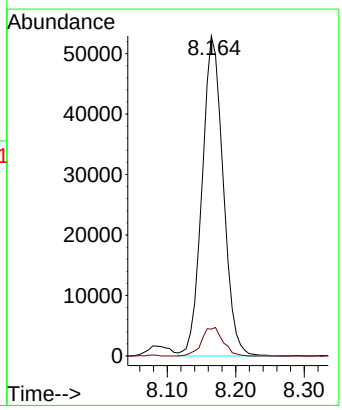


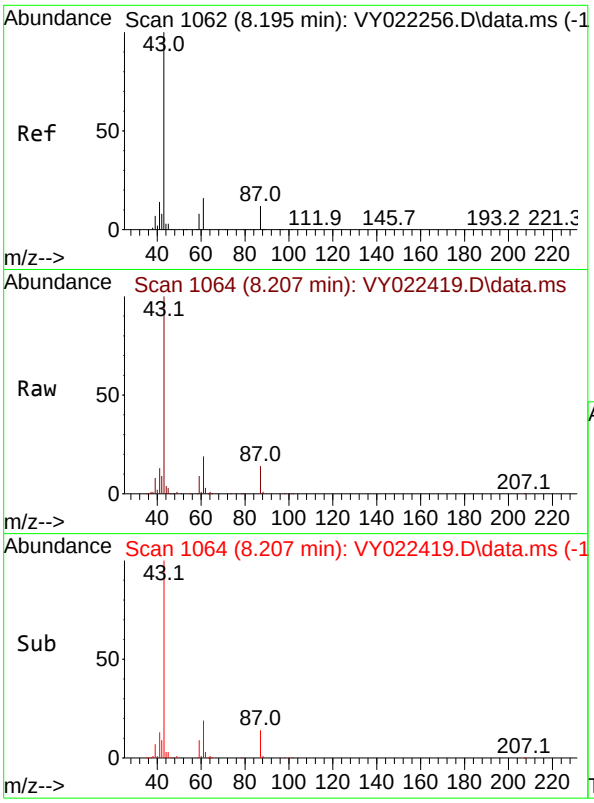


#42
1,2-Dichloroethane
Concen: 43.705 ug/l
RT: 8.164 min Scan# 1057
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Tgt Ion: 62 Resp: 113412

Ion	Ratio	Lower	Upper
62	100		
98	9.0	0.0	18.4



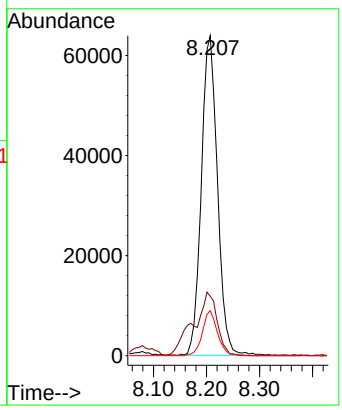


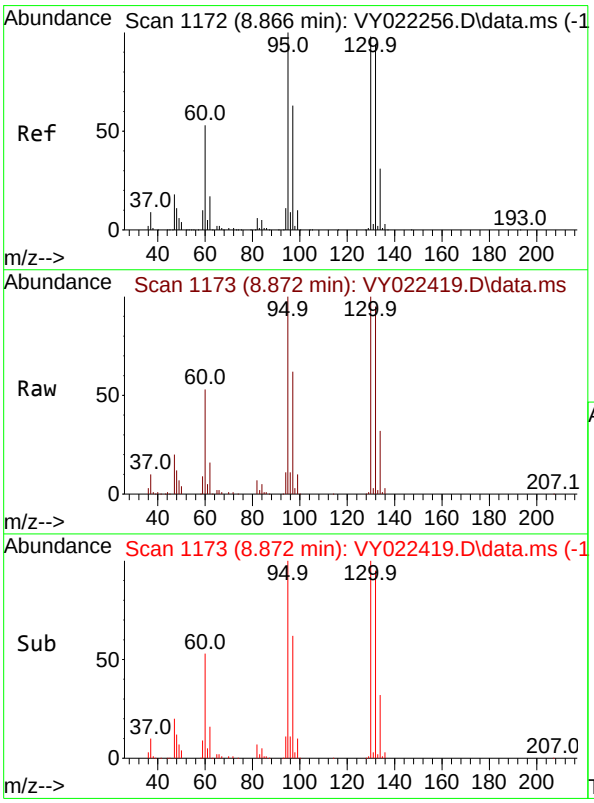
#43
Isopropyl Acetate
Concen: 39.739 ug/l
RT: 8.207 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 134975

Ion	Ratio	Lower	Upper
43	100		
61	19.0	15.1	22.7
87	13.1	9.7	14.5

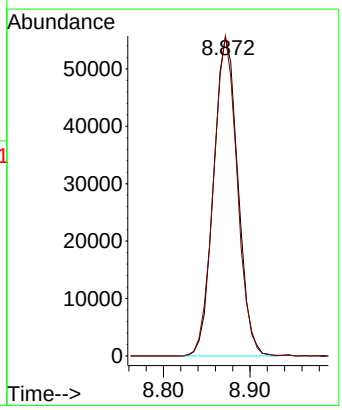


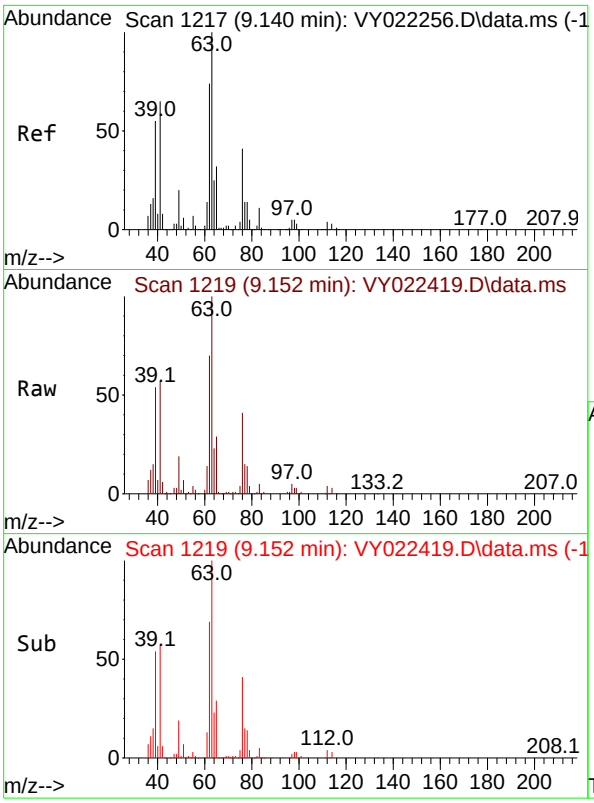


#44
Trichloroethene
Concen: 45.155 ug/l
RT: 8.872 min Scan# 1173
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Tgt Ion:130 Resp: 107737

Ion	Ratio	Lower	Upper
130	100		
95	100.5	0.0	204.8



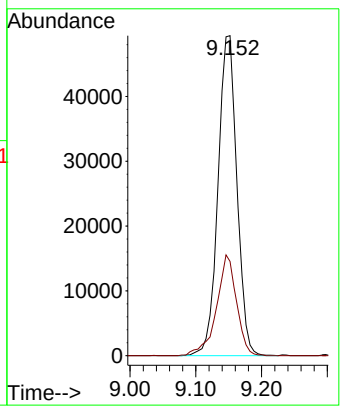


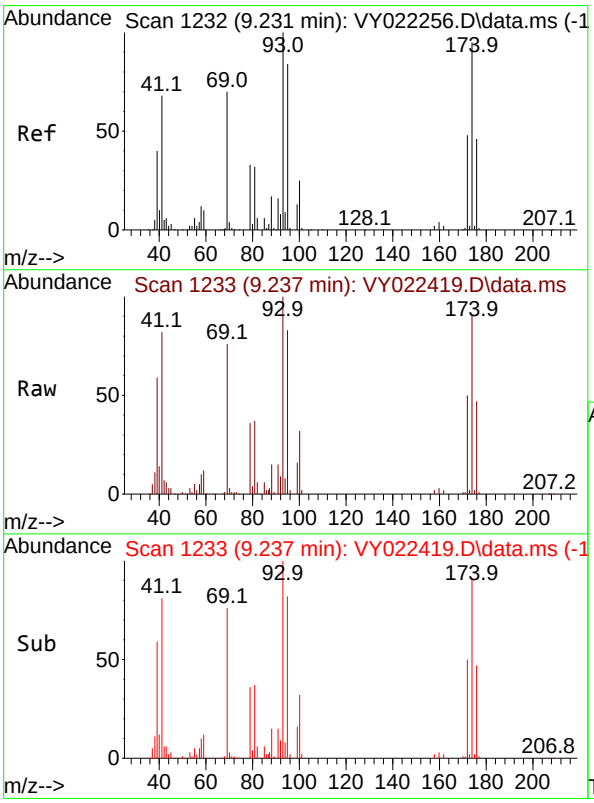
#45
1,2-Dichloropropane
Concen: 42.735 ug/l
RT: 9.152 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 63 Resp: 98865

Ion	Ratio	Lower	Upper
63	100		
65	29.5	25.7	38.5

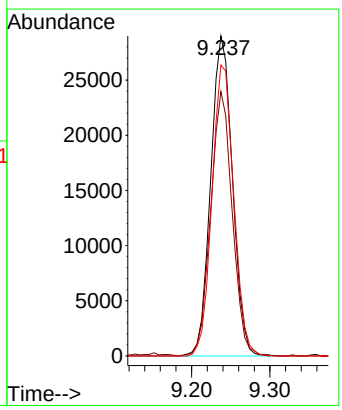


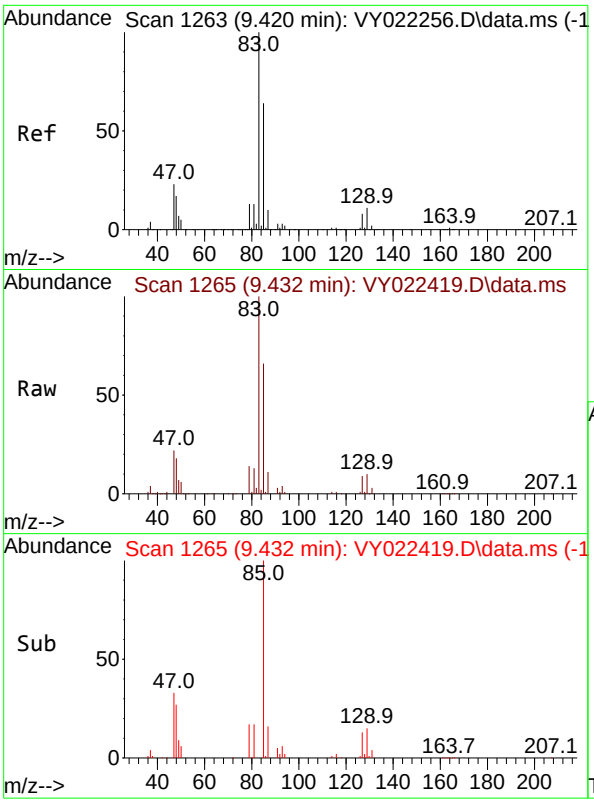


#46
Dibromomethane
Concen: 44.767 ug/l
RT: 9.237 min Scan# 1233
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Tgt Ion: 93 Resp: 55859

Ion	Ratio	Lower	Upper
93	100		
95	82.0	65.2	97.8
174	91.1	74.3	111.5



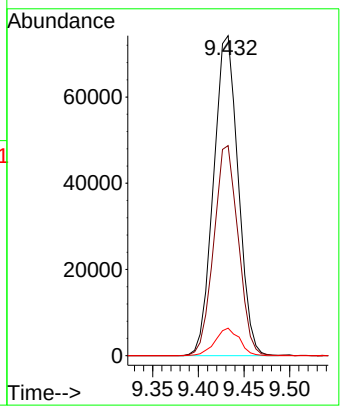


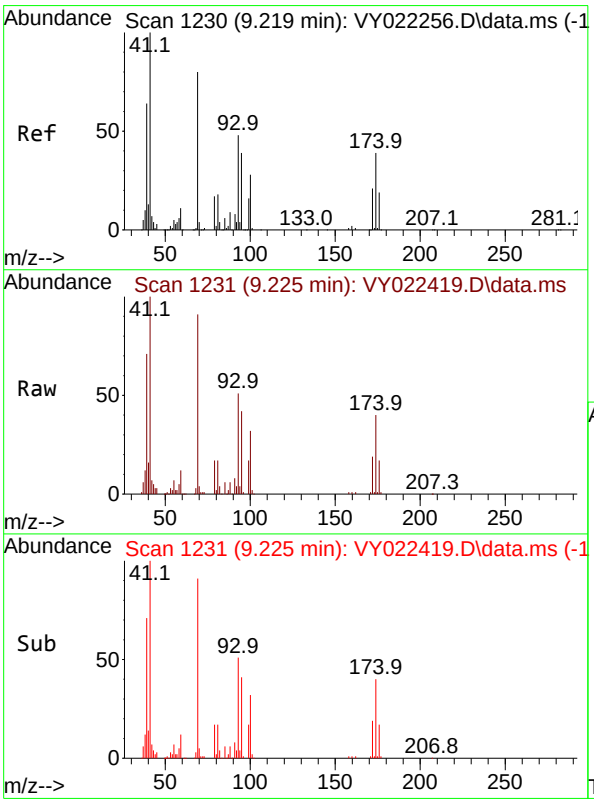
#47
Bromodichloromethane
Concen: 43.026 ug/l
RT: 9.432 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 139278

Ion	Ratio	Lower	Upper
83	100		
85	65.6	51.1	76.7
127	8.6	6.6	10.0

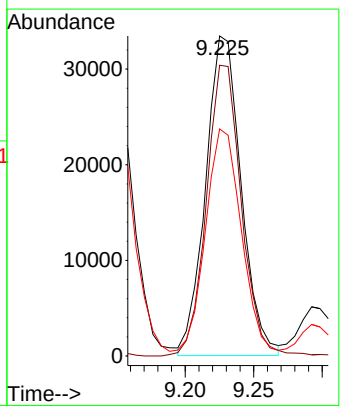


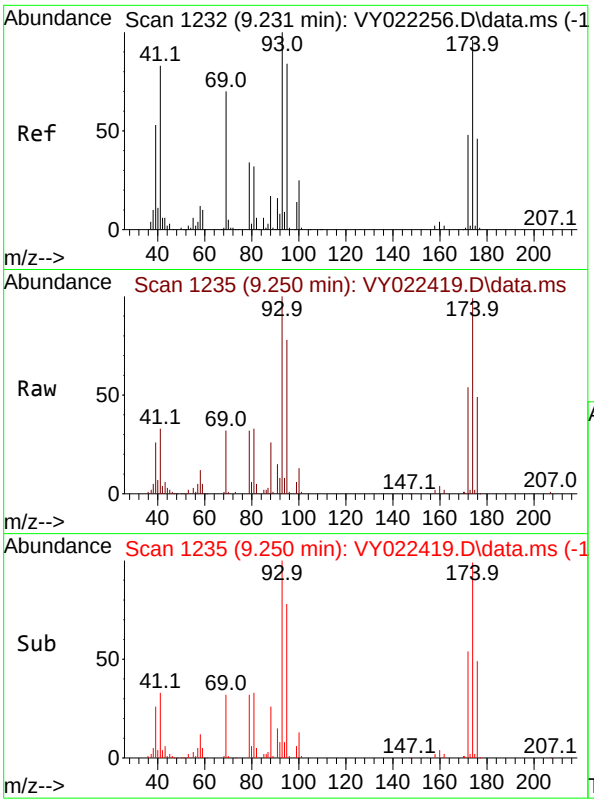


#48
Methyl methacrylate
Concen: 38.003 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Tgt Ion: 41 Resp: 60364

Ion	Ratio	Lower	Upper
41	100		
69	89.5	63.5	95.3
39	69.5	50.8	76.2



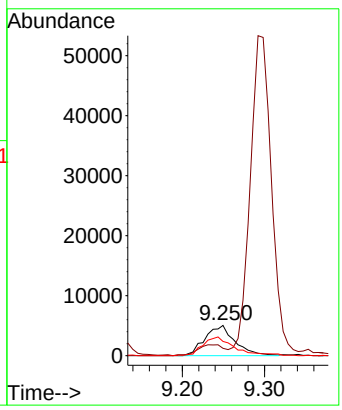


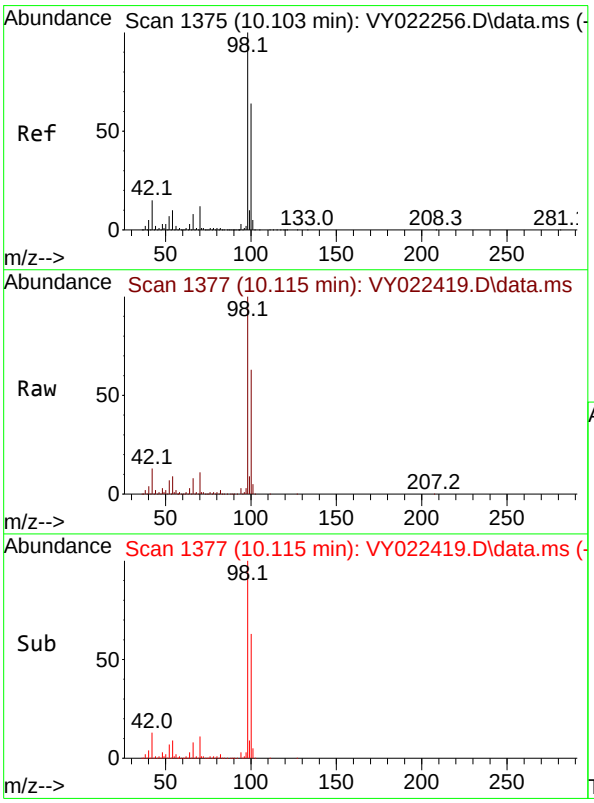
#49
1,4-Dioxane
Concen: 906.702 ug/l
RT: 9.250 min Scan# 1
Delta R.T. 0.018 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 88 Resp: 12781

Ion	Ratio	Lower	Upper
88	100		
43	32.3	28.5	42.7
58	65.9	61.4	92.2

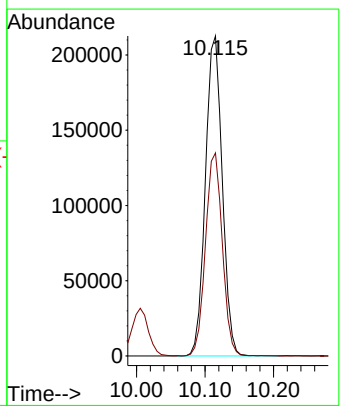


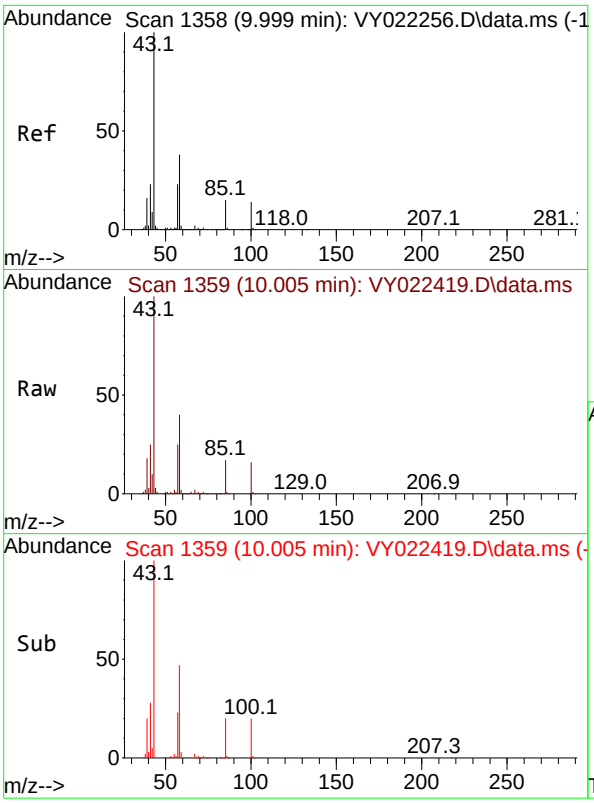


#50
Toluene-d8
Concen: 45.229 ug/l
RT: 10.115 min Scan# 1377
Delta R.T. 0.012 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Tgt Ion: 98 Resp: 364028

Ion	Ratio	Lower	Upper
98	100		
100	63.6	51.8	77.8



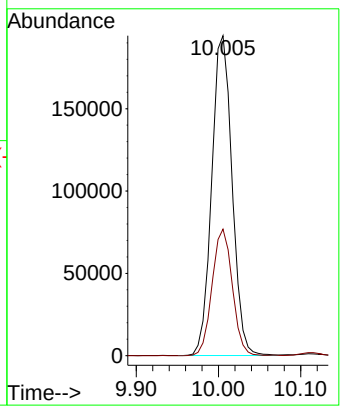


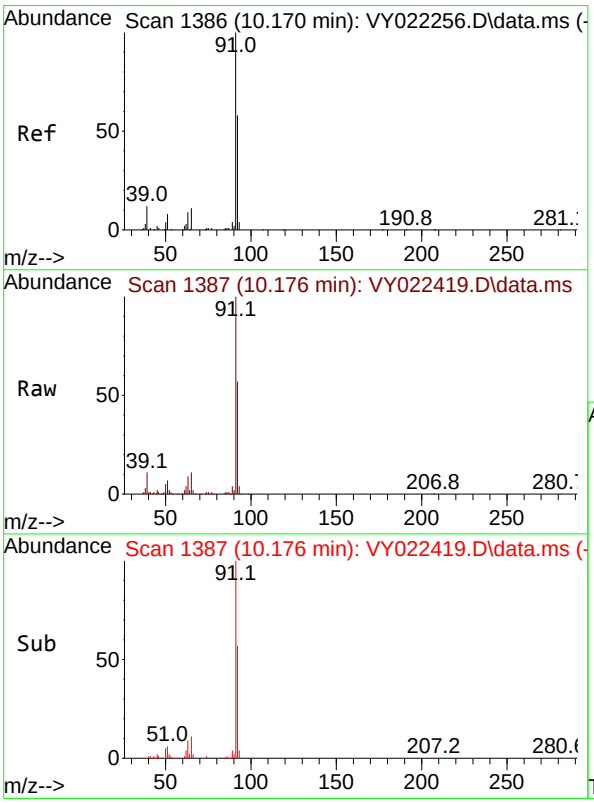
#51
4-Methyl-2-Pentanone
Concen: 200.859 ug/l
RT: 10.005 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 334749

Ion	Ratio	Lower	Upper
43	100		
58	39.2	29.4	44.2

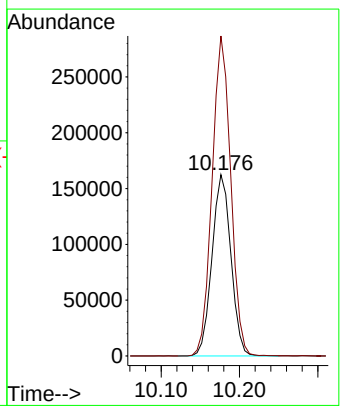


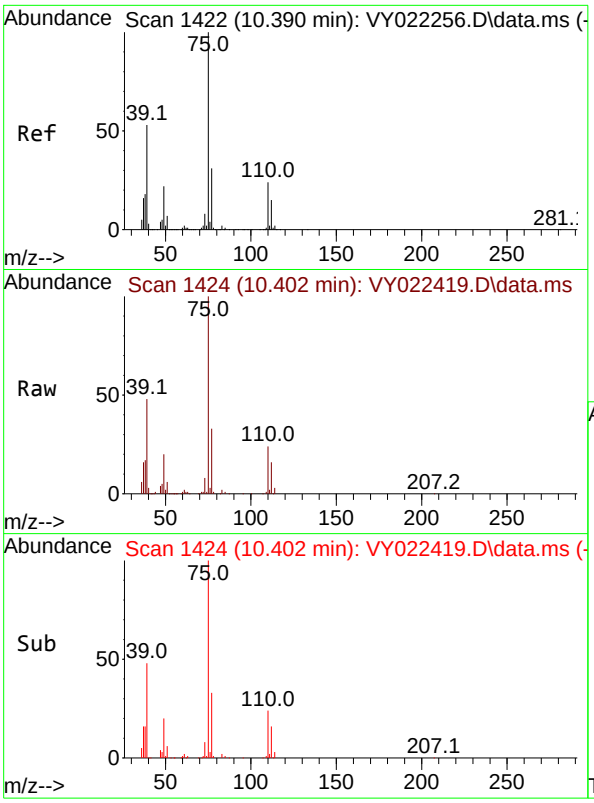


#52
Toluene
Concen: 44.845 ug/l
RT: 10.176 min Scan# 1387
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Tgt Ion: 92 Resp: 272492

Ion	Ratio	Lower	Upper
92	100		
91	173.9	139.1	208.7



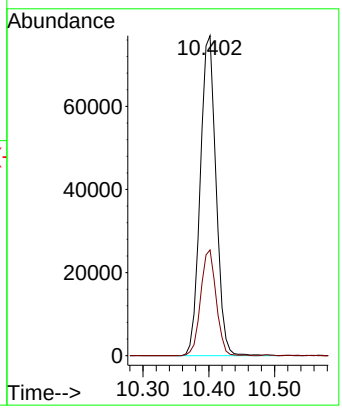


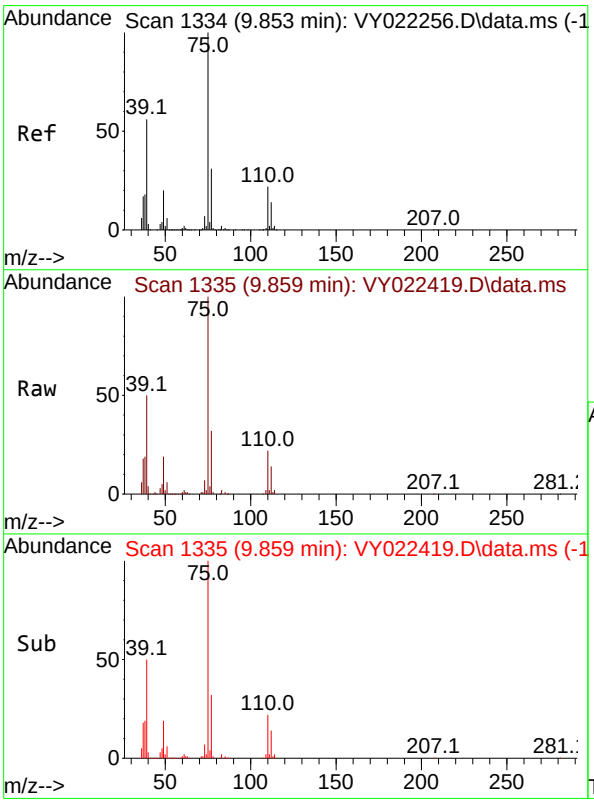
#53
t-1,3-Dichloropropene
Concen: 40.639 ug/l
RT: 10.402 min Scan# 14
Delta R.T. 0.012 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 75 Resp: 128381

Ion	Ratio	Lower	Upper
75	100		
77	33.1	25.0	37.6

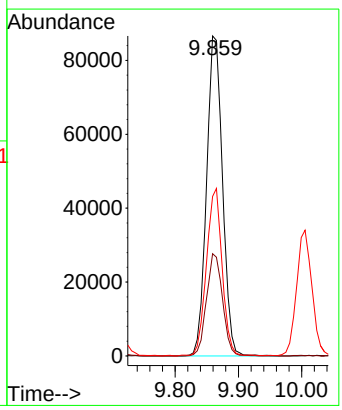


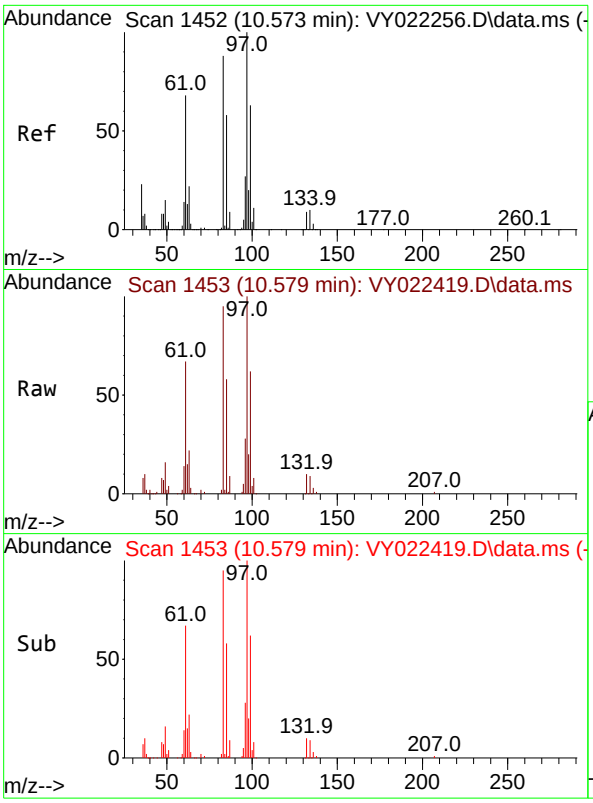


#54
cis-1,3-Dichloropropene
Concen: 42.002 ug/l
RT: 9.859 min Scan# 1335
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Tgt Ion: 75 Resp: 152020

Ion	Ratio	Lower	Upper
75	100		
77	32.0	25.1	37.7
39	49.8	44.5	66.7



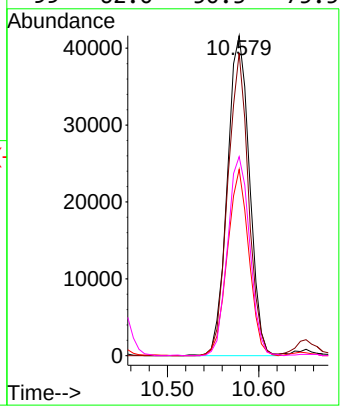


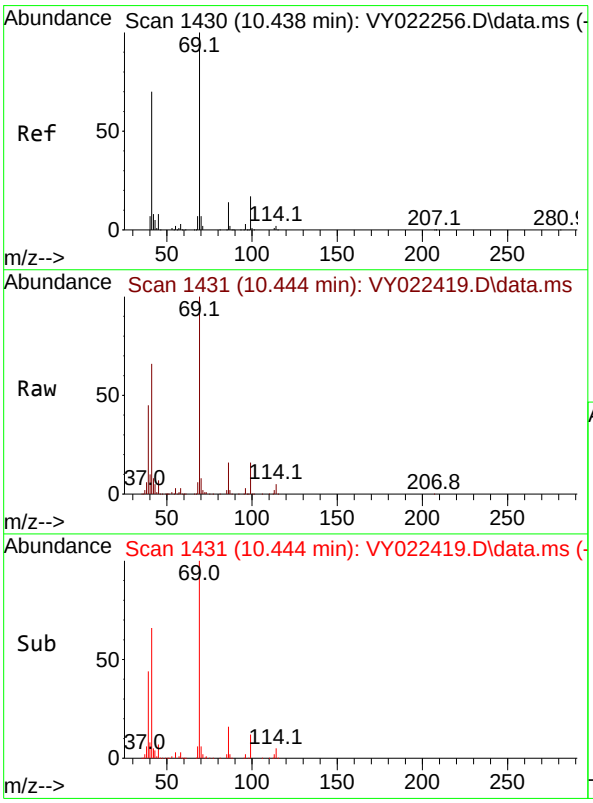
#55
1,1,2-Trichloroethane
Concen: 43.910 ug/l
RT: 10.579 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 97 Resp: 70160

Ion	Ratio	Lower	Upper
97	100		
83	94.6	70.3	105.5
85	58.2	46.2	69.4
99	62.0	50.3	75.5

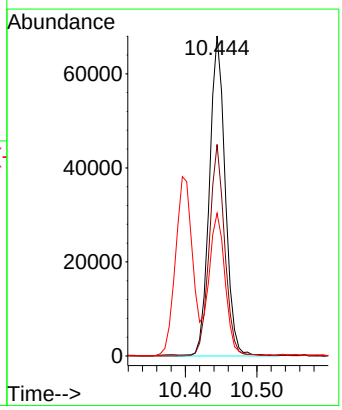


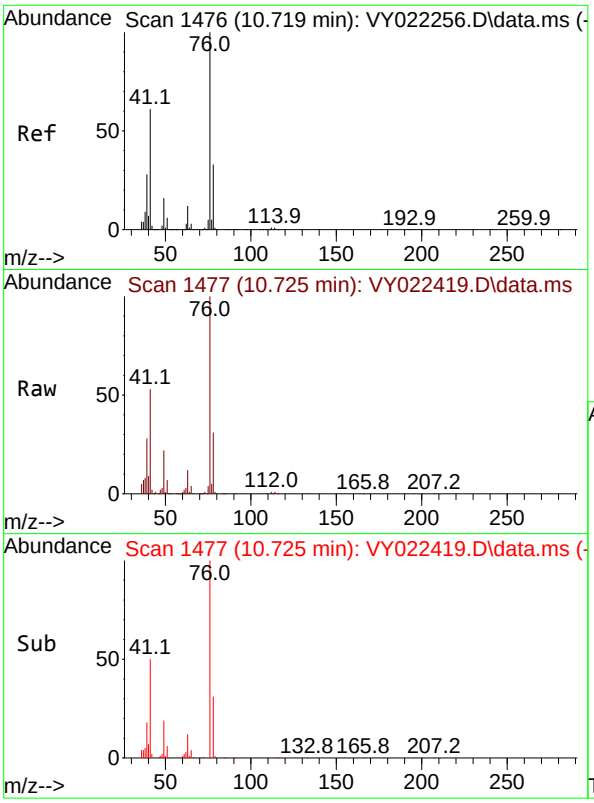


#56
Ethyl methacrylate
Concen: 41.883 ug/l
RT: 10.444 min Scan# 1431
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Tgt Ion: 69 Resp: 104244

Ion	Ratio	Lower	Upper
69	100		
41	63.8	56.5	84.7
39	45.5	37.1	55.7



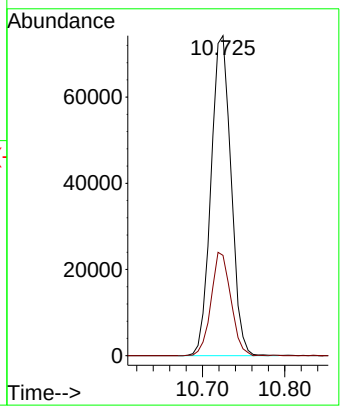


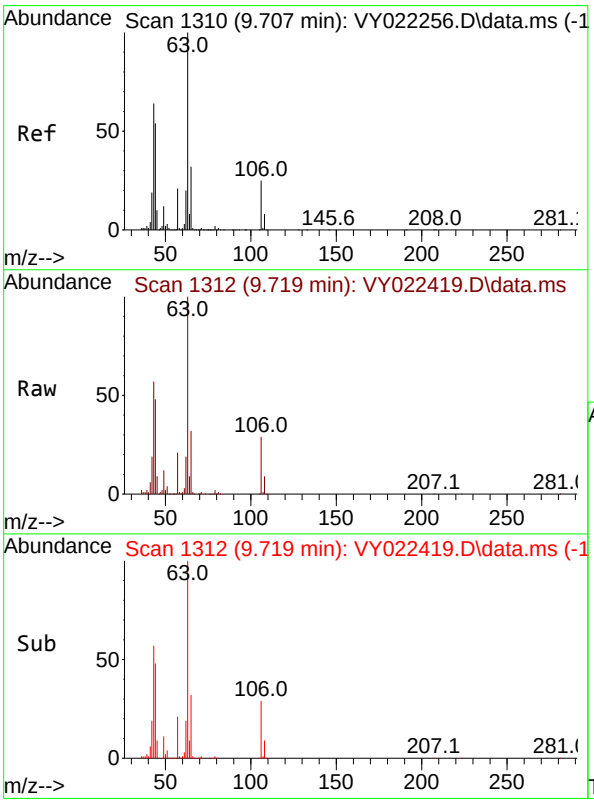
#57
1,3-Dichloropropane
Concen: 44.176 ug/l
RT: 10.725 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 76 Resp: 125412

Ion	Ratio	Lower	Upper
76	100		
78	31.9	25.8	38.8

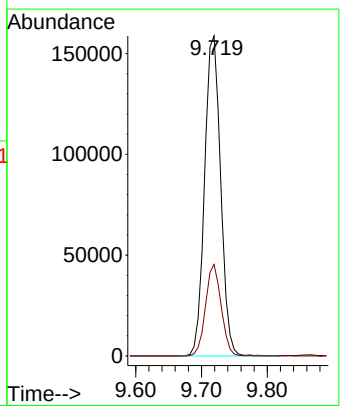


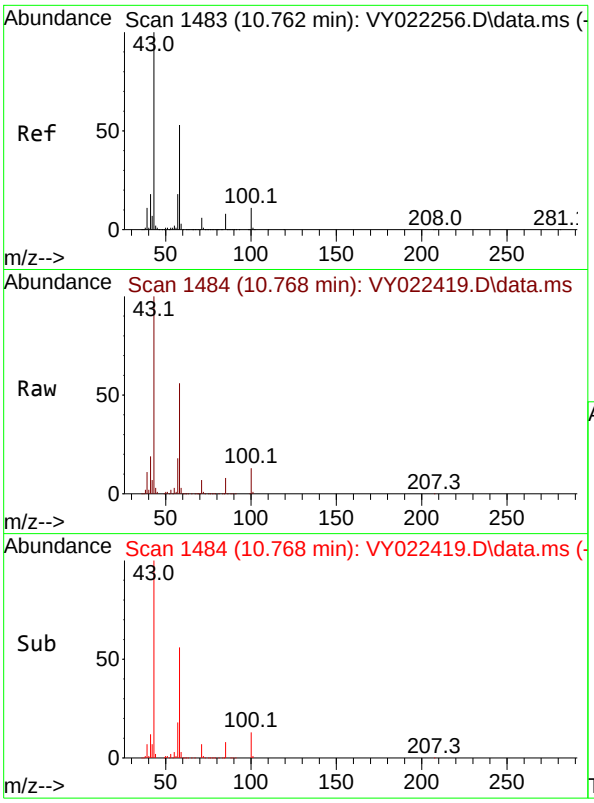


#58
2-Chloroethyl Vinyl ether
Concen: 241.375 ug/l
RT: 9.719 min Scan# 1312
Delta R.T. 0.012 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Tgt Ion: 63 Resp: 269651

Ion	Ratio	Lower	Upper
63	100		
106	27.7	21.0	31.4



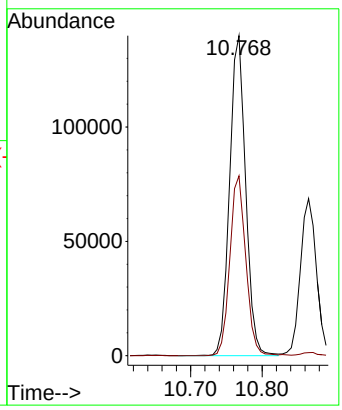


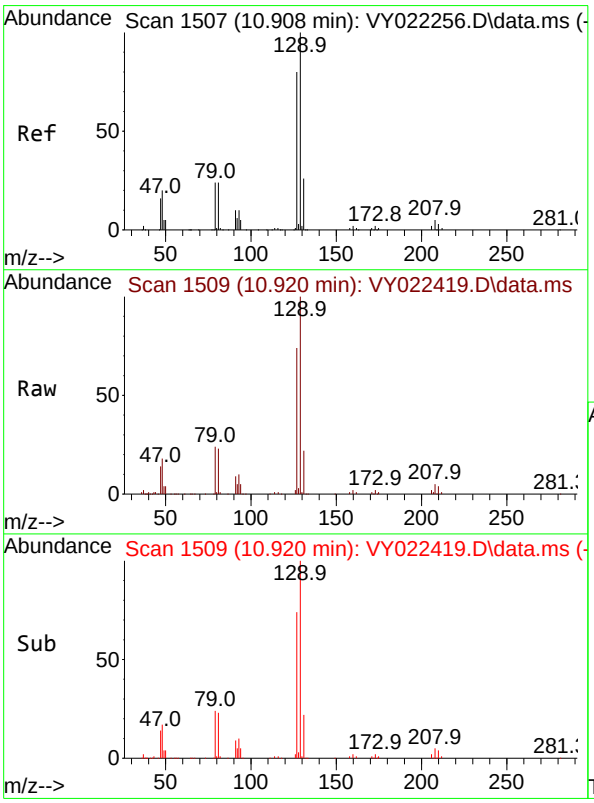
#59
2-Hexanone
Concen: 194.924 ug/l
RT: 10.768 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 217811

Ion	Ratio	Lower	Upper
43	100		
58	56.1	26.1	78.3

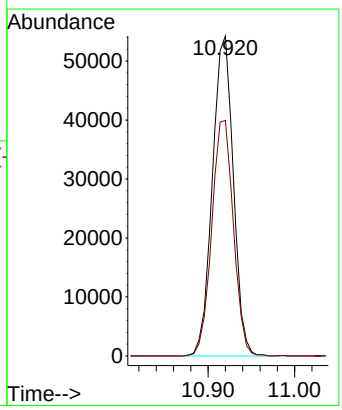


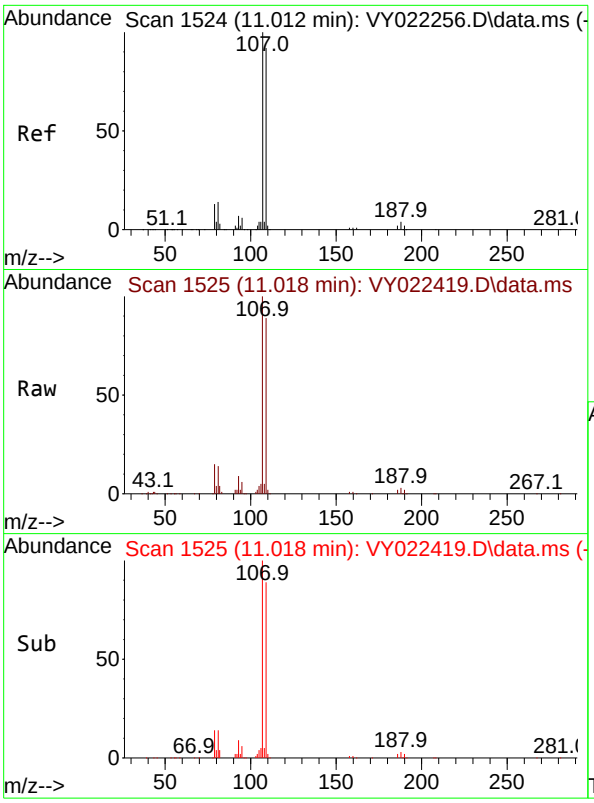


#60
Dibromochloromethane
Concen: 43.848 ug/l
RT: 10.920 min Scan# 1509
Delta R.T. 0.012 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Tgt Ion:129 Resp: 90937

Ion	Ratio	Lower	Upper
129	100		
127	76.2	38.6	115.7



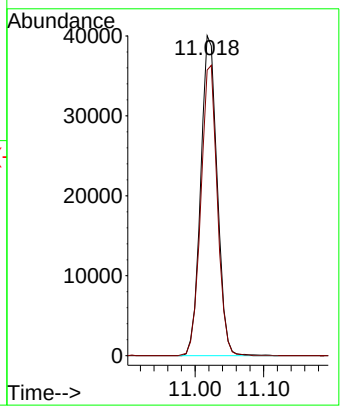


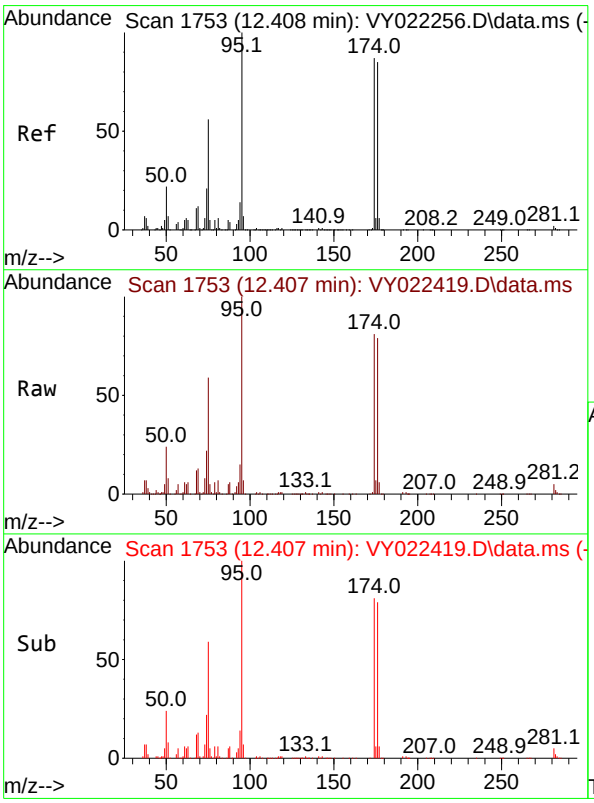
#61
1,2-Dibromoethane
Concen: 45.063 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:107 Resp: 67109

Ion	Ratio	Lower	Upper
107	100		
109	90.5	74.6	111.8

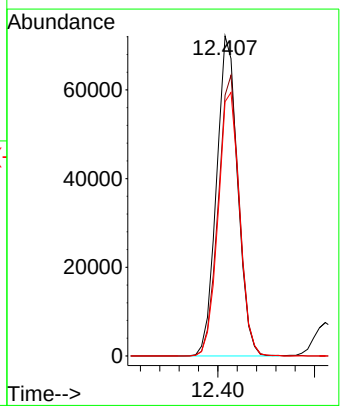


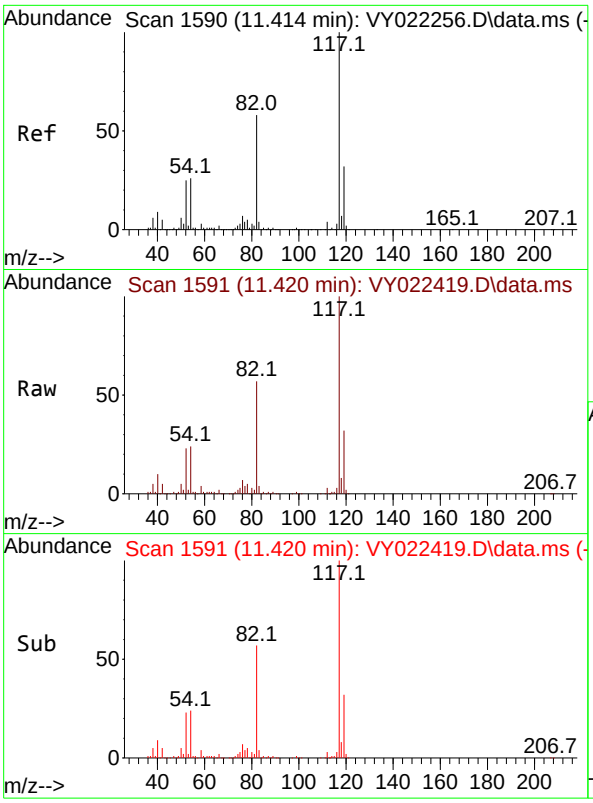


#62
4-Bromofluorobenzene
Concen: 42.843 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. -0.000 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Tgt Ion: 95 Resp: 109296

Ion	Ratio	Lower	Upper
95	100		
174	87.6	0.0	166.8
176	83.5	0.0	160.8



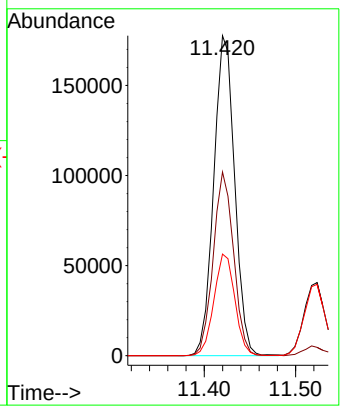


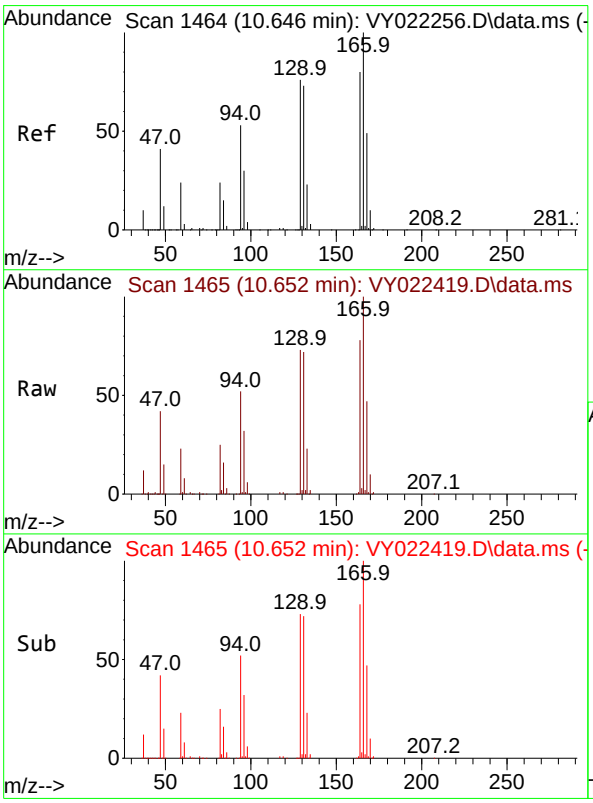
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:117 Resp: 282638

Ion	Ratio	Lower	Upper
117	100		
82	57.4	46.6	70.0
119	31.7	25.8	38.6

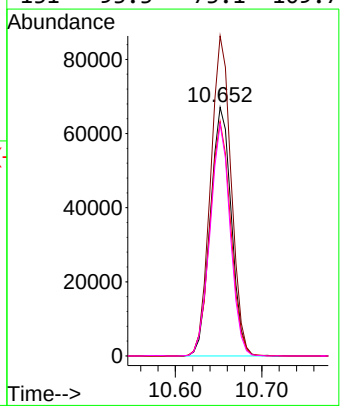


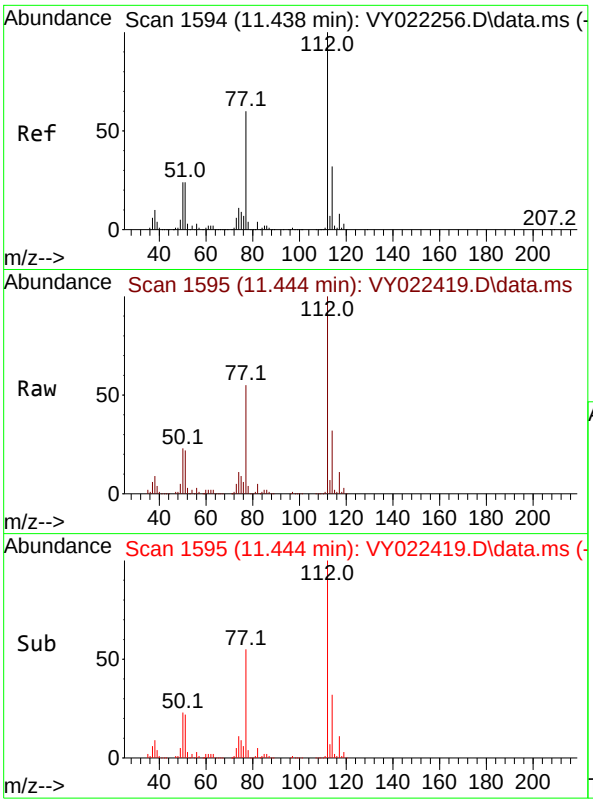


#64
Tetrachloroethene
Concen: 43.293 ug/l
RT: 10.652 min Scan# 1465
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Tgt Ion:164 Resp: 113100

Ion	Ratio	Lower	Upper
164	100		
166	128.7	100.4	150.6
129	94.3	76.4	114.6
131	93.3	73.1	109.7



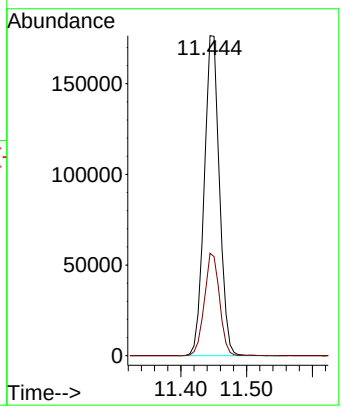


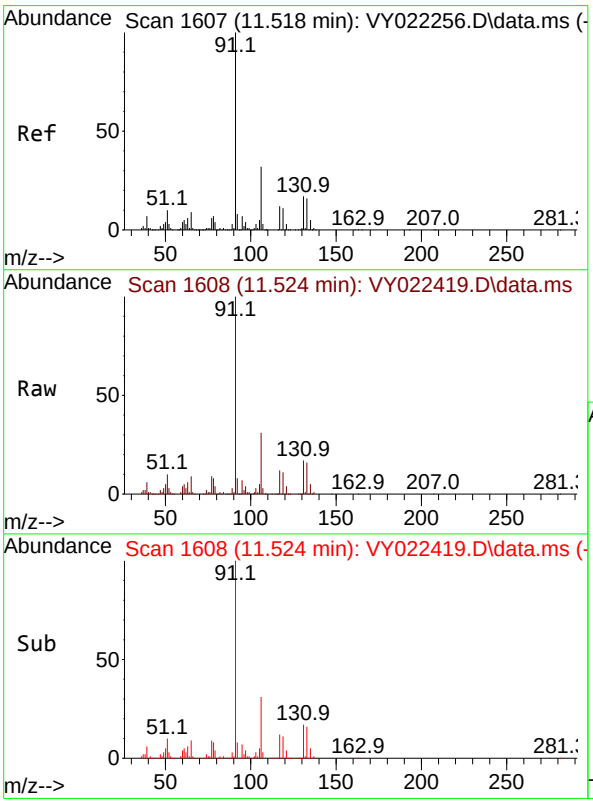
#65
Chlorobenzene
Concen: 44.437 ug/l
RT: 11.444 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:112 Resp: 283359

Ion	Ratio	Lower	Upper
112	100		
114	32.0	25.8	38.6

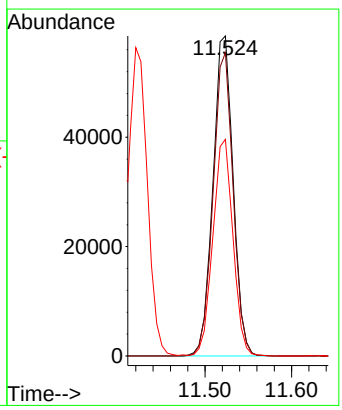


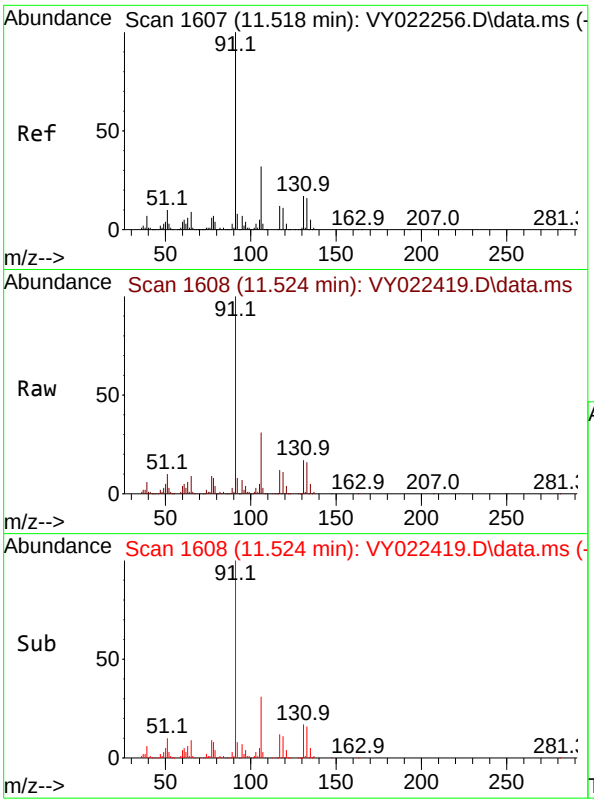


#66
1,1,1,2-Tetrachloroethane
Concen: 43.210 ug/l
RT: 11.524 min Scan# 1608
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Tgt Ion:131 Resp: 94723

Ion	Ratio	Lower	Upper
131	100		
133	93.7	47.3	141.9
119	67.3	33.1	99.2



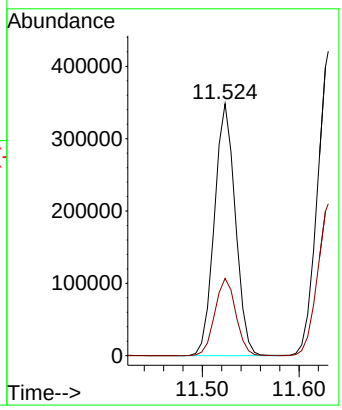


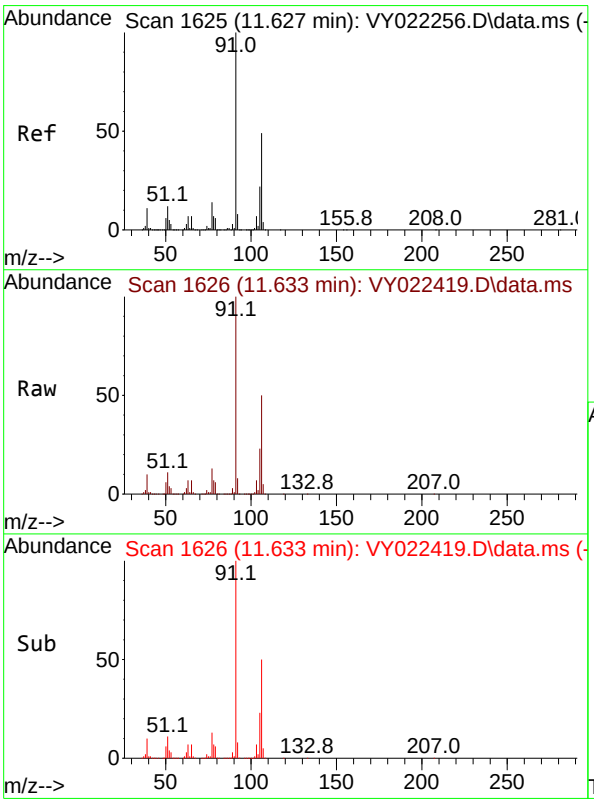
#67
Ethyl Benzene
Concen: 43.819 ug/l
RT: 11.524 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 523292

Ion	Ratio	Lower	Upper
91	100		
106	30.7	25.4	38.0

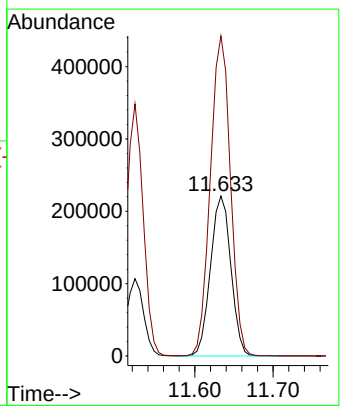


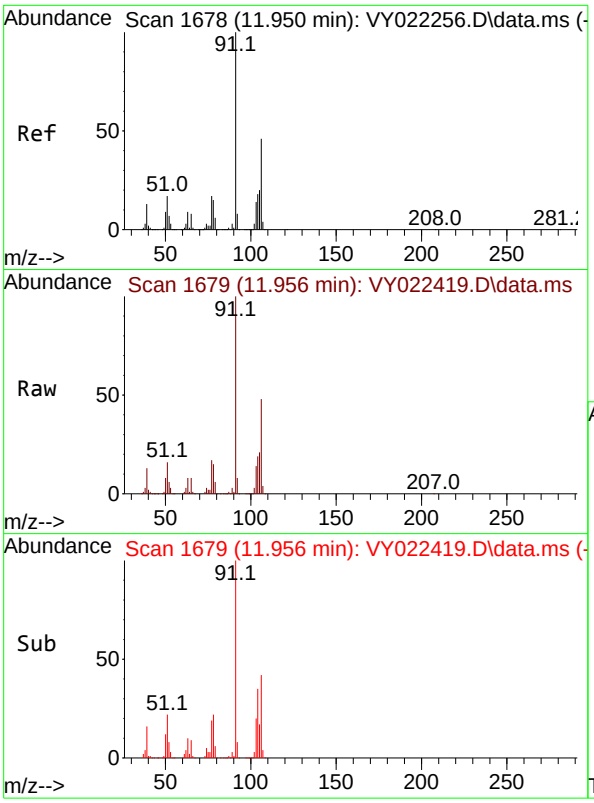


#68
m/p-Xylenes
Concen: 88.675 ug/l
RT: 11.633 min Scan# 1626
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Tgt Ion:106 Resp: 399035

Ion	Ratio	Lower	Upper
106	100		
91	198.0	163.0	244.4



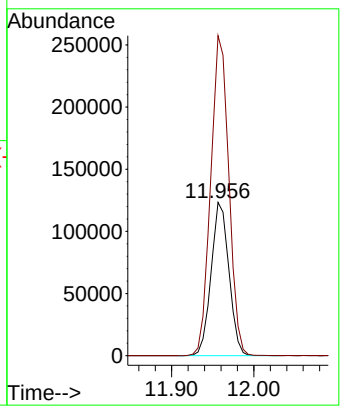


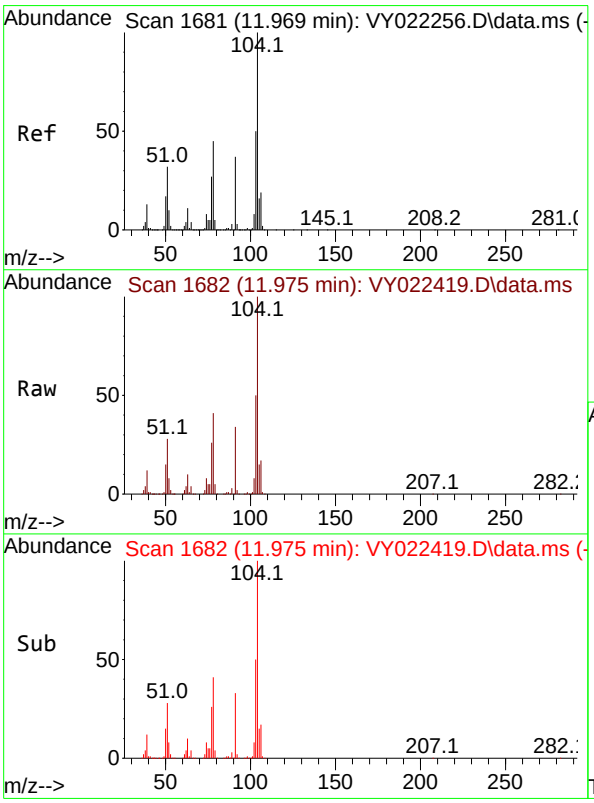
#69
o-Xylene
Concen: 43.599 ug/l
RT: 11.956 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:106 Resp: 185624

Ion	Ratio	Lower	Upper
106	100		
91	212.7	108.3	324.8

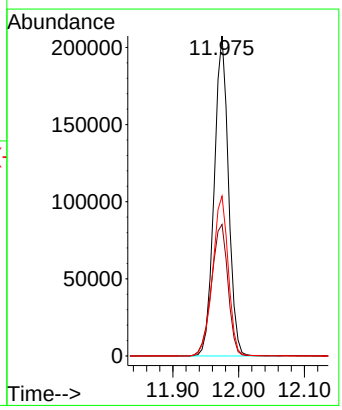


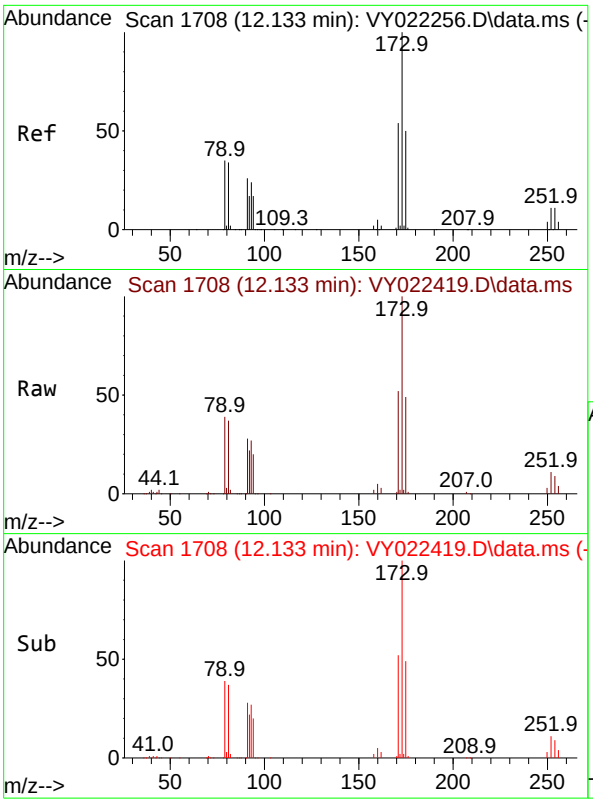


#70
Styrene
Concen: 43.672 ug/l
RT: 11.975 min Scan# 1682
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Tgt Ion:104 Resp: 313641

Ion	Ratio	Lower	Upper
104	100		
78	47.5	40.9	61.3
103	54.6	43.7	65.5



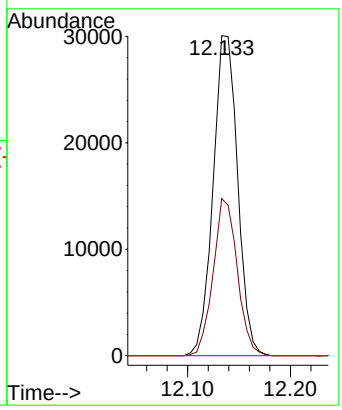


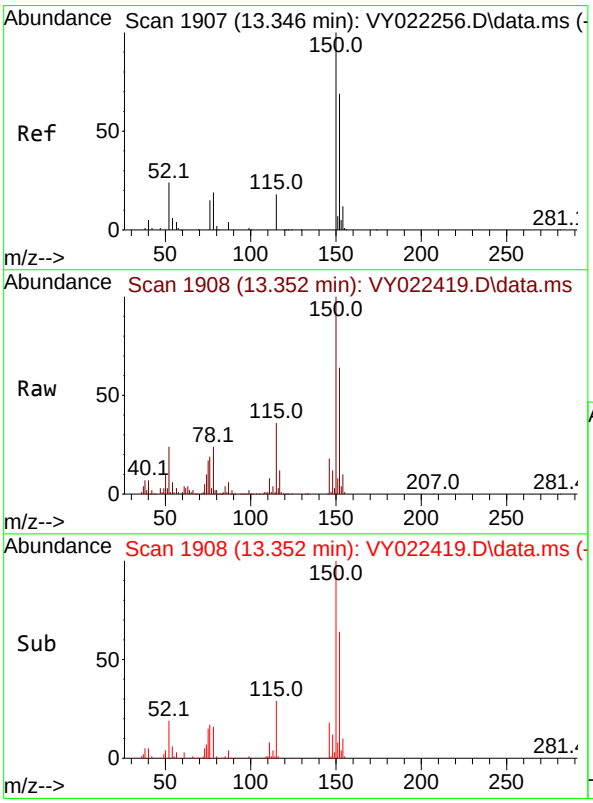
#71
Bromoform
Concen: 42.098 ug/l
RT: 12.133 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:173 Resp: 49811

Ion	Ratio	Lower	Upper
173	100		
175	48.2	24.7	74.1
254	0.0	0.0	0.0

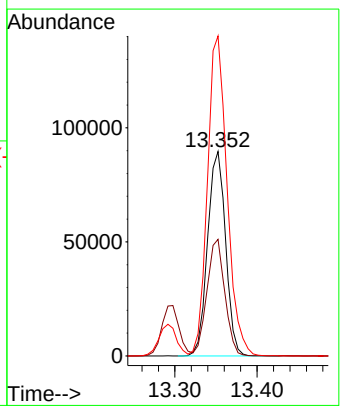


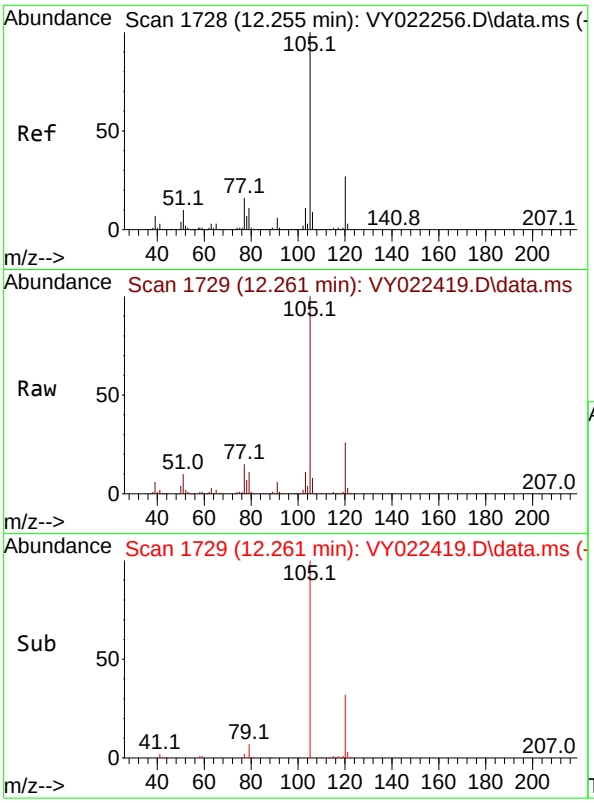


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.352 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Tgt Ion:152 Resp: 136386

Ion	Ratio	Lower	Upper
152	100		
115	56.7	29.4	88.2
150	170.7	0.0	353.8



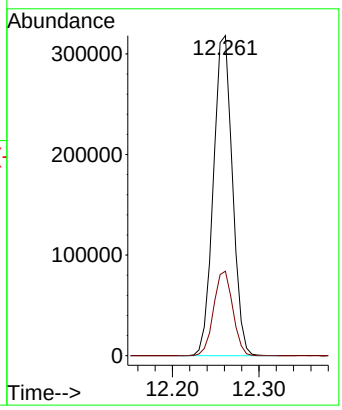


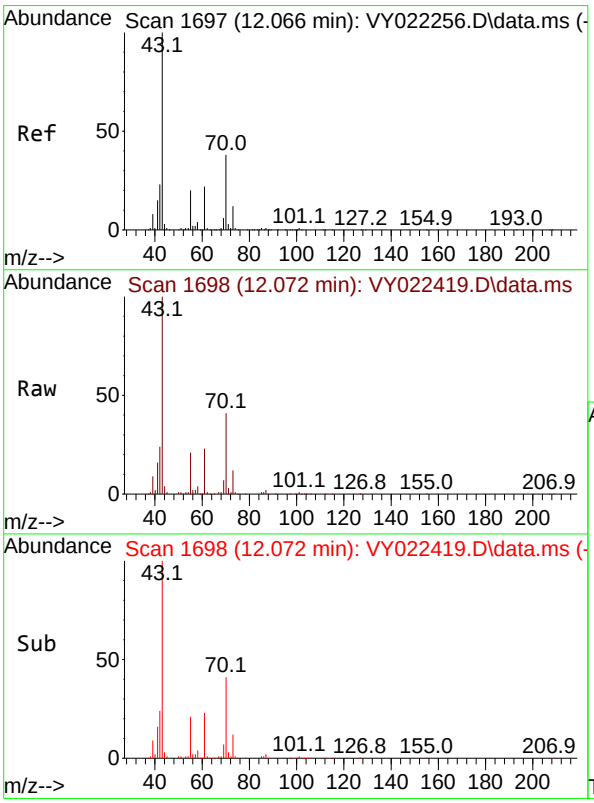
#73
Isopropylbenzene
Concen: 42.989 ug/l
RT: 12.261 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:105 Resp: 485733

Ion	Ratio	Lower	Upper
105	100		
120	26.5	13.2	39.6

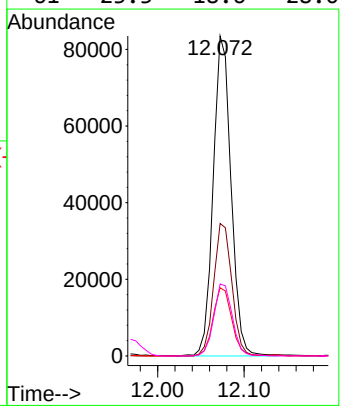


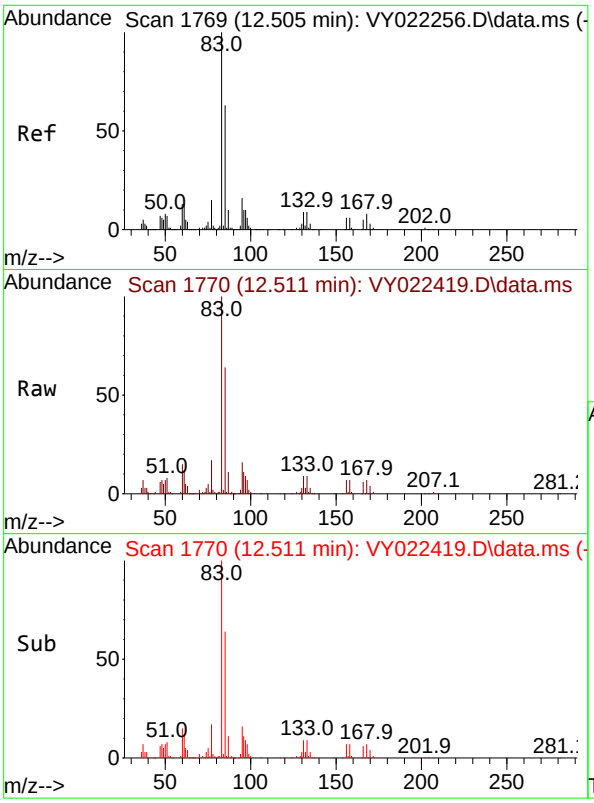


#74
N-amyl acetate
Concen: 37.033 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Tgt Ion: 43 Resp: 119672

Ion	Ratio	Lower	Upper
43	100		
70	42.1	31.4	47.0
55	22.4	17.0	25.6
61	23.3	18.6	28.0



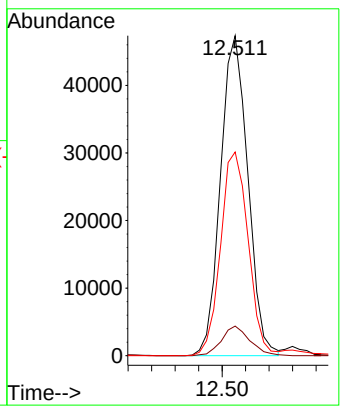


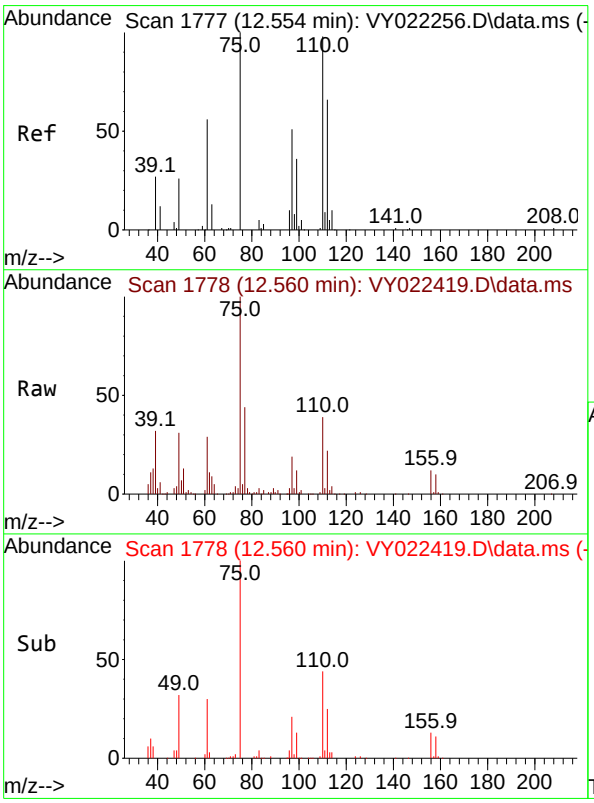
#75
1,1,2,2-Tetrachloroethane
Concen: 44.048 ug/l
RT: 12.511 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 76541

Ion	Ratio	Lower	Upper
83	100		
131	9.6	4.9	14.7
85	64.4	32.0	96.0

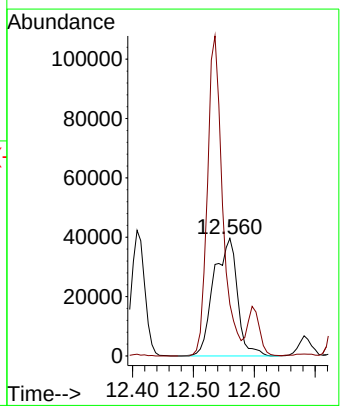


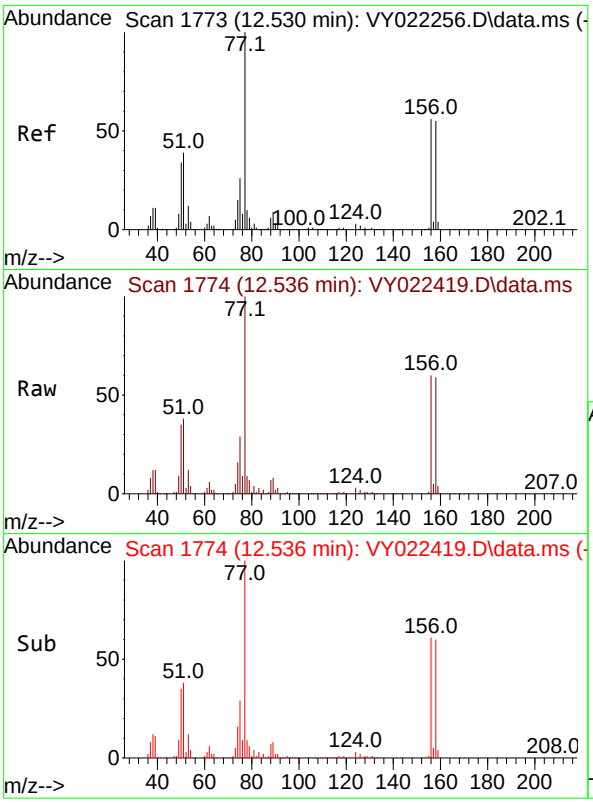


#76
1,2,3-Trichloropropane
Concen: 77.345 ug/l
RT: 12.560 min Scan# 1778
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Tgt Ion: 75 Resp: 106870

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0



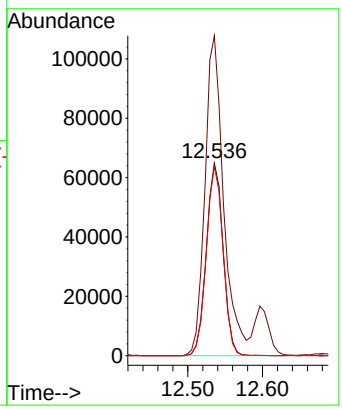


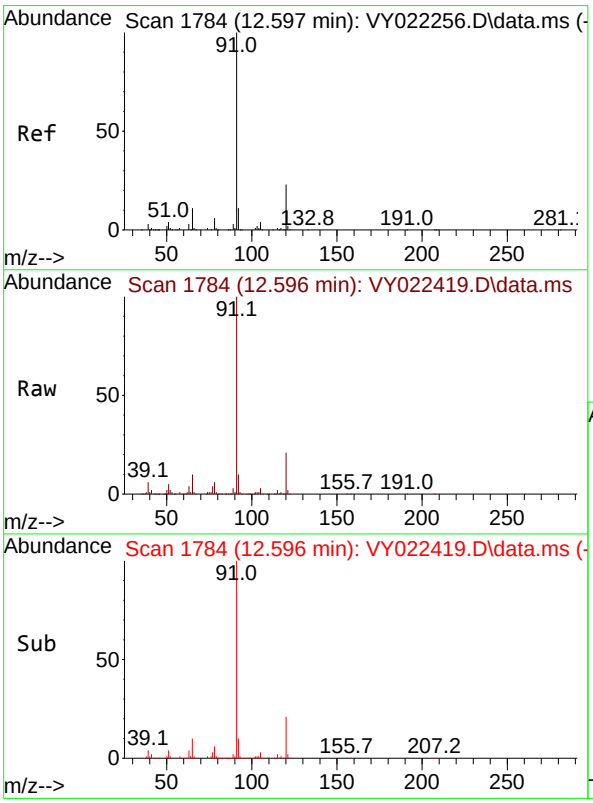
#77
Bromobenzene
Concen: 41.846 ug/l
RT: 12.536 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:156 Resp: 100985

Ion	Ratio	Lower	Upper
156	100		
77	184.8	94.5	283.6
158	98.6	48.4	145.3

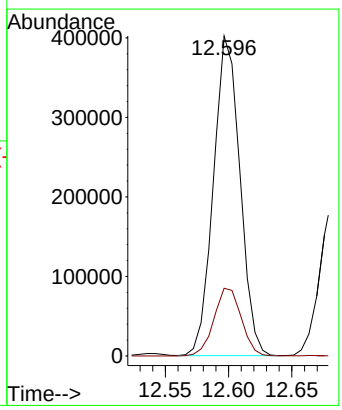


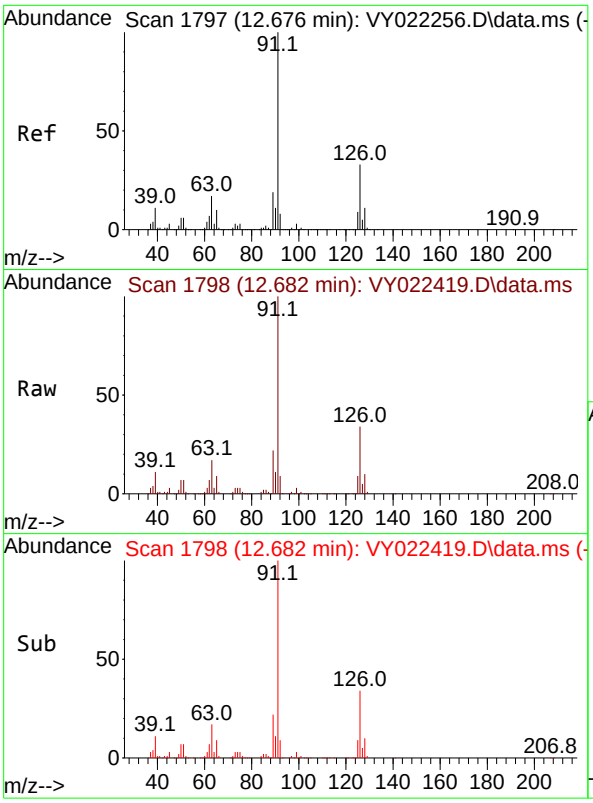


#78
n-propylbenzene
Concen: 43.005 ug/l
RT: 12.596 min Scan# 1784
Delta R.T. -0.000 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Tgt Ion: 91 Resp: 586097

Ion	Ratio	Lower	Upper
91	100		
120	21.9	11.1	33.3



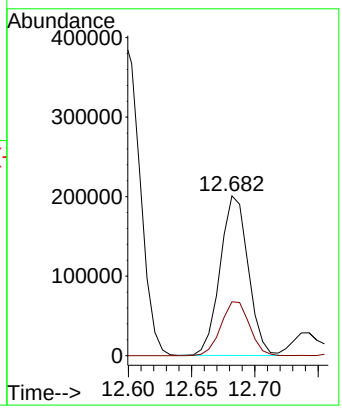


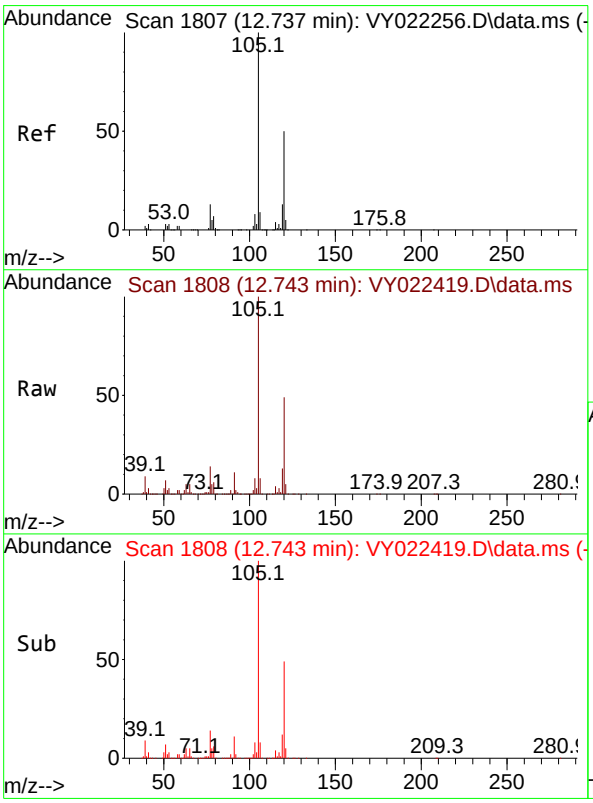
#79
2-Chlorotoluene
Concen: 41.425 ug/l
RT: 12.682 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 310255

Ion	Ratio	Lower	Upper
91	100		
126	34.4	16.8	50.4

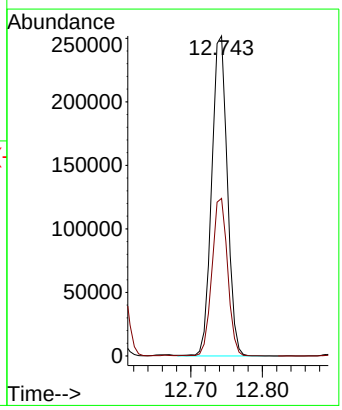


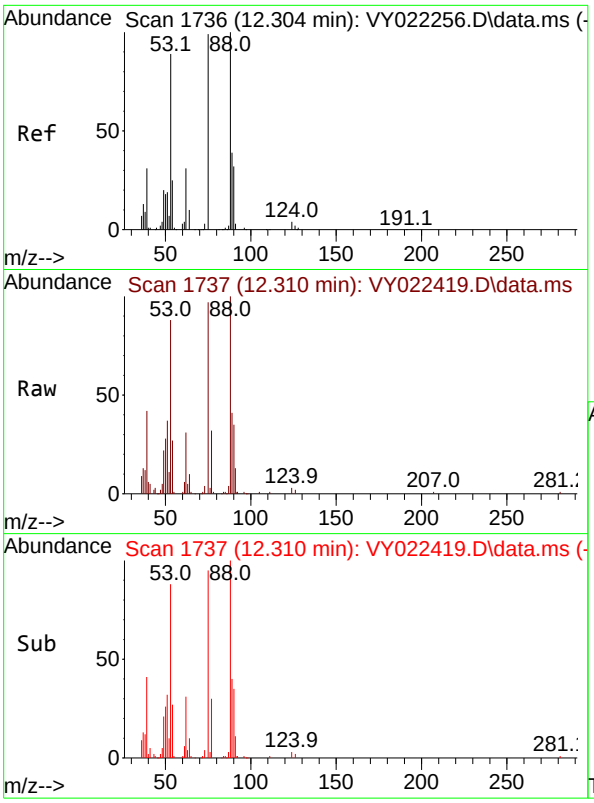


#80
1,3,5-Trimethylbenzene
Concen: 41.781 ug/l
RT: 12.743 min Scan# 1808
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Tgt Ion:105 Resp: 381079

Ion	Ratio	Lower	Upper
105	100		
120	49.4	24.2	72.6



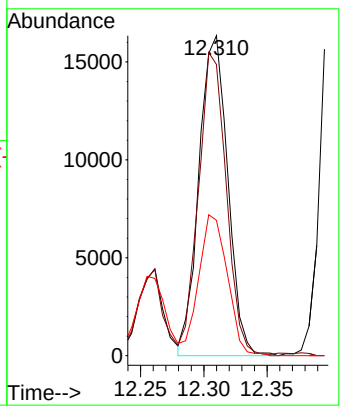


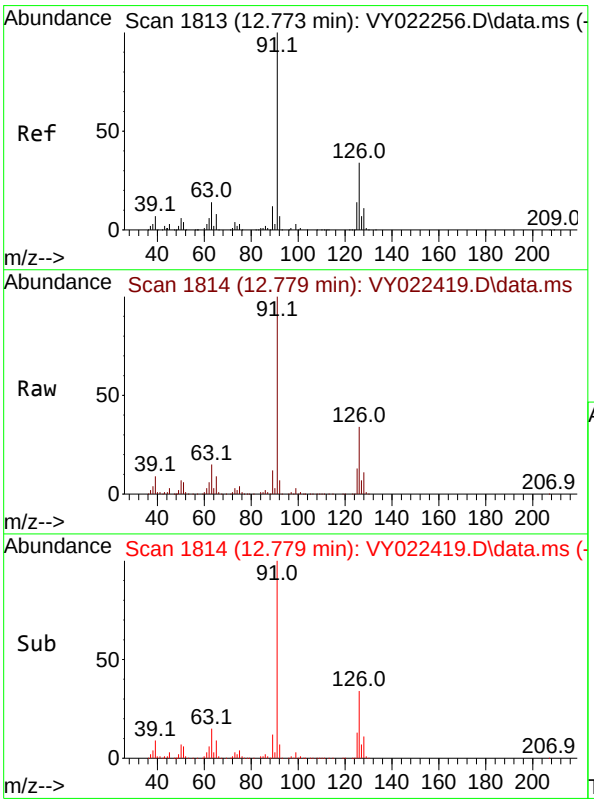
#81
trans-1,4-Dichloro-2-butene
Concen: 37.959 ug/l
RT: 12.310 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 75 Resp: 25891

Ion	Ratio	Lower	Upper
75	100		
53	90.6	75.8	113.8
89	43.9	36.2	54.2

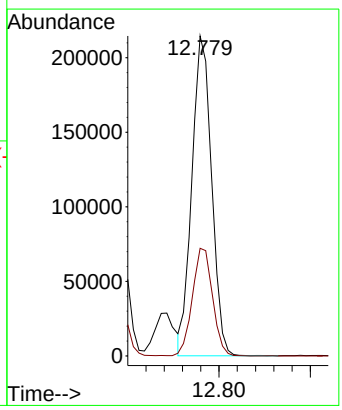


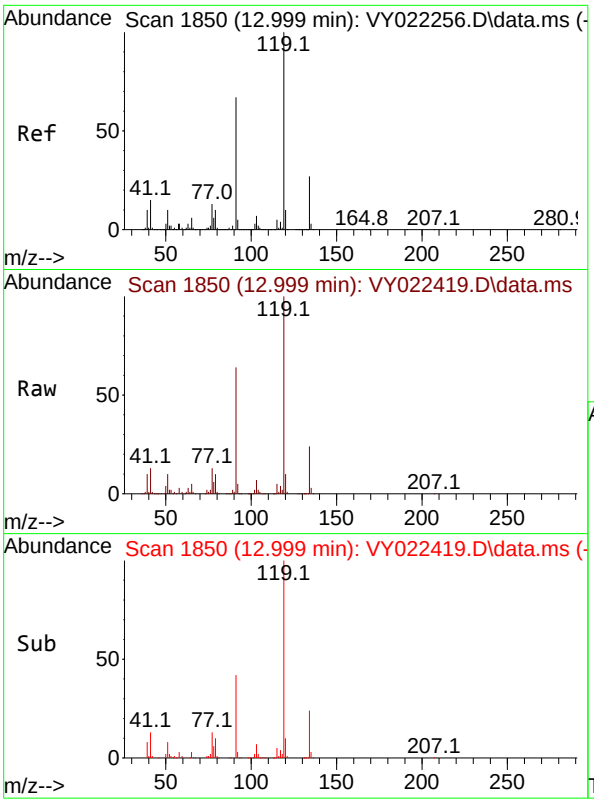


#82
4-Chlorotoluene
Concen: 41.677 ug/l
RT: 12.779 min Scan# 1814
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Tgt Ion: 91 Resp: 321059

Ion	Ratio	Lower	Upper
91	100		
126	34.5	16.8	50.4



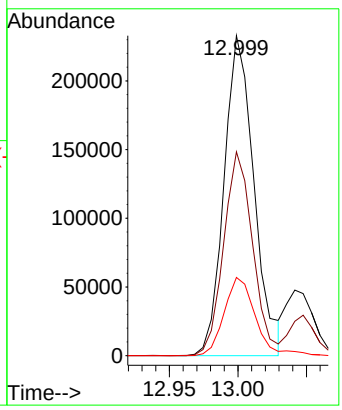


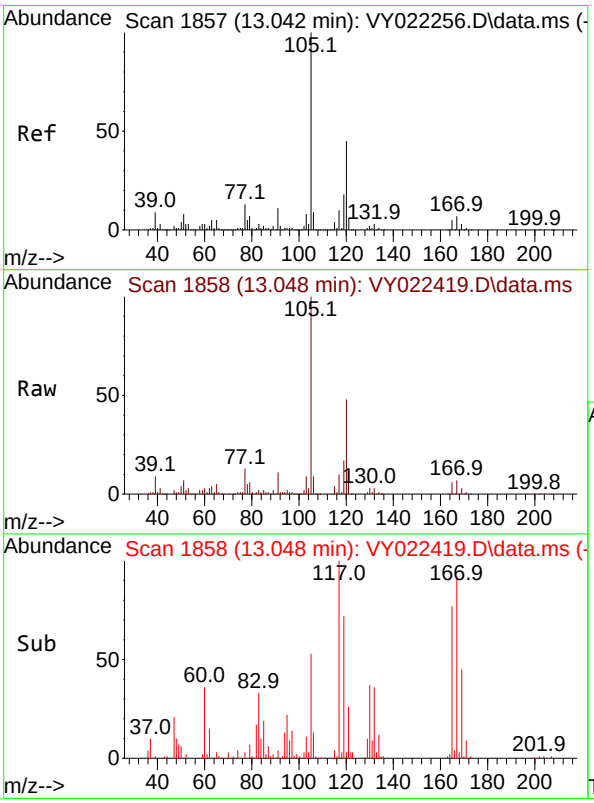
#83
tert-Butylbenzene
Concen: 43.775 ug/l
RT: 12.999 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:119 Resp: 354869

Ion	Ratio	Lower	Upper
119	100		
91	61.7	32.8	98.3
134	25.5	12.9	38.6

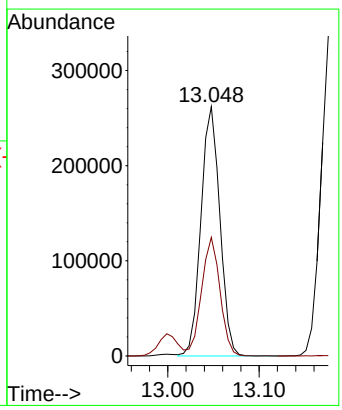


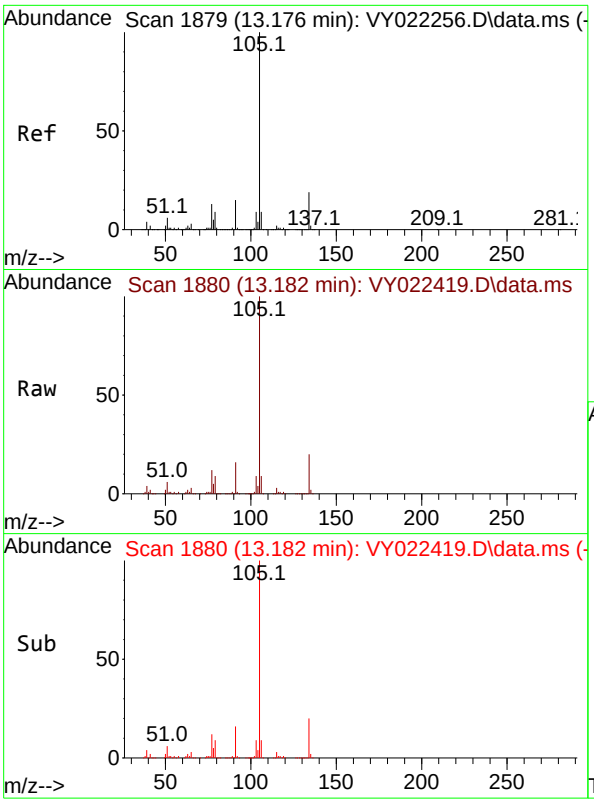


#84
1,2,4-Trimethylbenzene
Concen: 41.497 ug/l
RT: 13.048 min Scan# 1858
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Tgt Ion:105 Resp: 375722

Ion	Ratio	Lower	Upper
105	100		
120	46.6	22.3	66.9



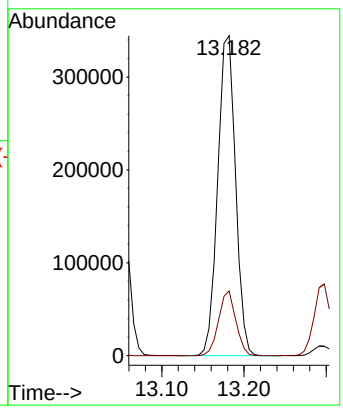


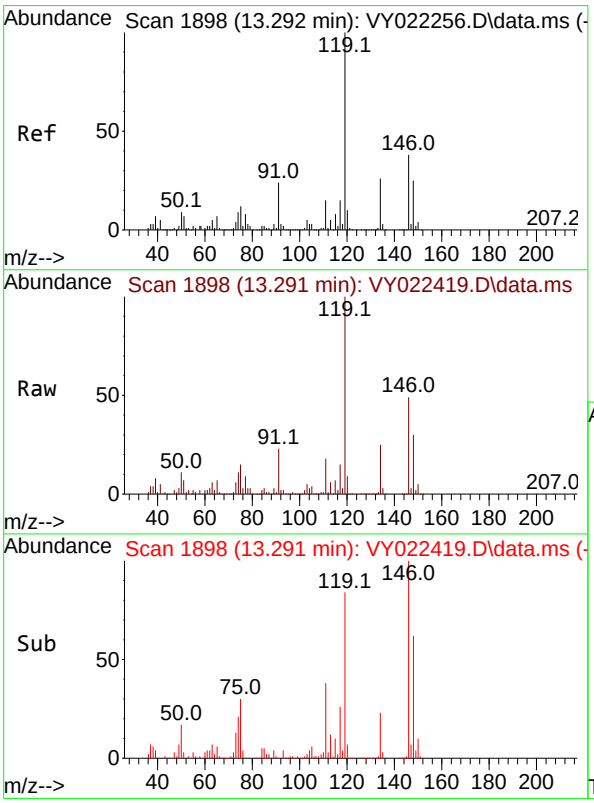
#85
sec-Butylbenzene
Concen: 43.138 ug/l
RT: 13.182 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:105 Resp: 519118

Ion	Ratio	Lower	Upper
105	100		
134	19.5	9.8	29.5

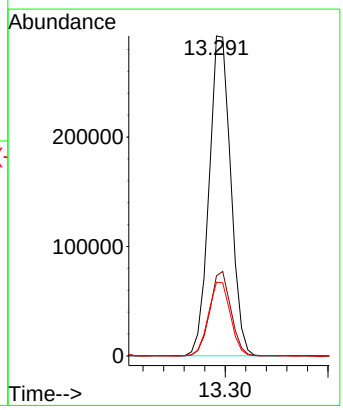


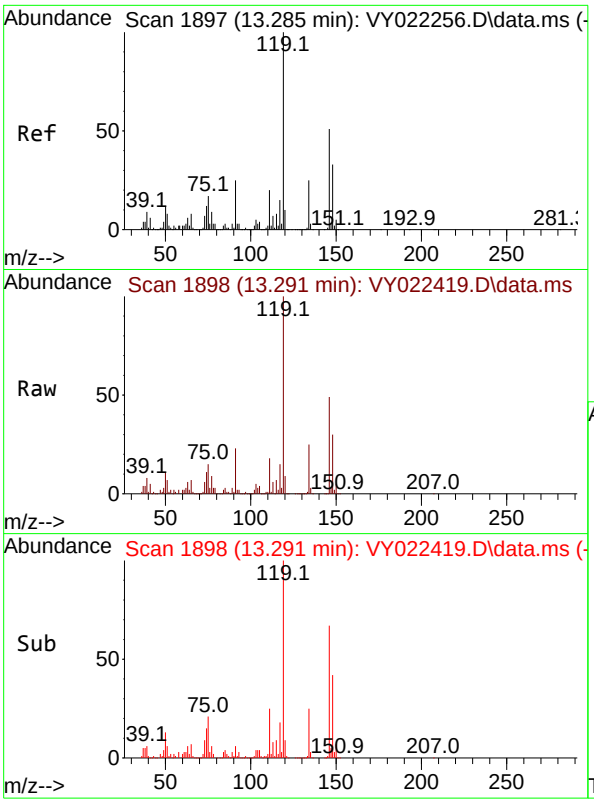


#86
p-Isopropyltoluene
Concen: 42.109 ug/l
RT: 13.291 min Scan# 1898
Delta R.T. -0.000 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Tgt Ion:119 Resp: 426187

Ion	Ratio	Lower	Upper
119	100		
134	25.8	12.9	38.6
91	23.4	12.1	36.3



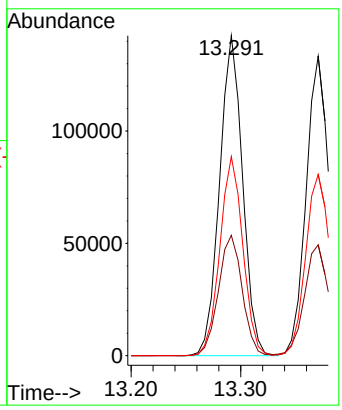


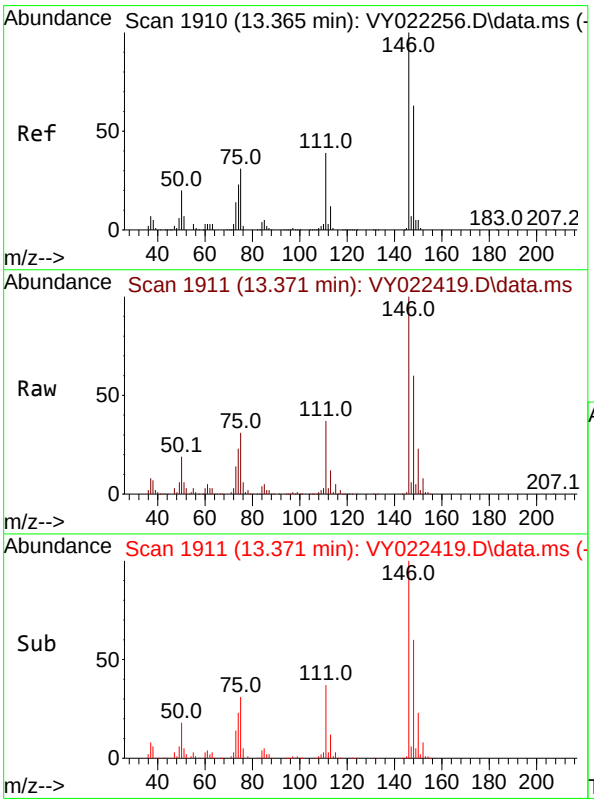
#87
1,3-Dichlorobenzene
Concen: 42.169 ug/l
RT: 13.291 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:146 Resp: 207744

Ion	Ratio	Lower	Upper
146	100		
111	39.0	19.9	59.7
148	62.2	31.9	95.7

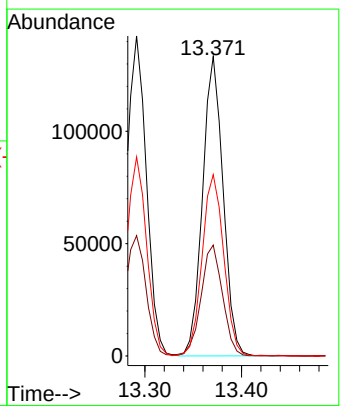


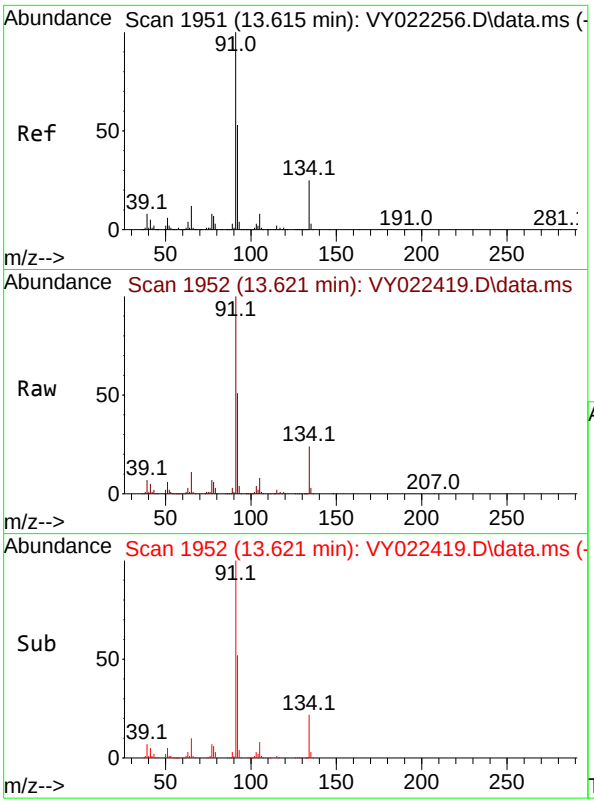


#88
1,4-Dichlorobenzene
Concen: 41.619 ug/l
RT: 13.371 min Scan# 1911
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Tgt Ion:146 Resp: 197220

Ion	Ratio	Lower	Upper
146	100		
111	38.5	20.0	59.9
148	63.5	32.1	96.5



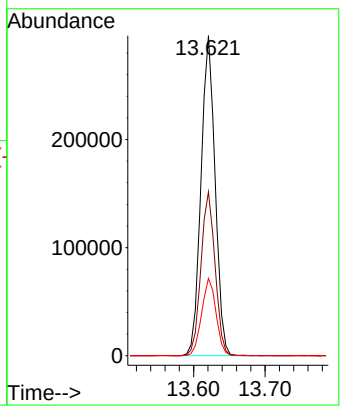


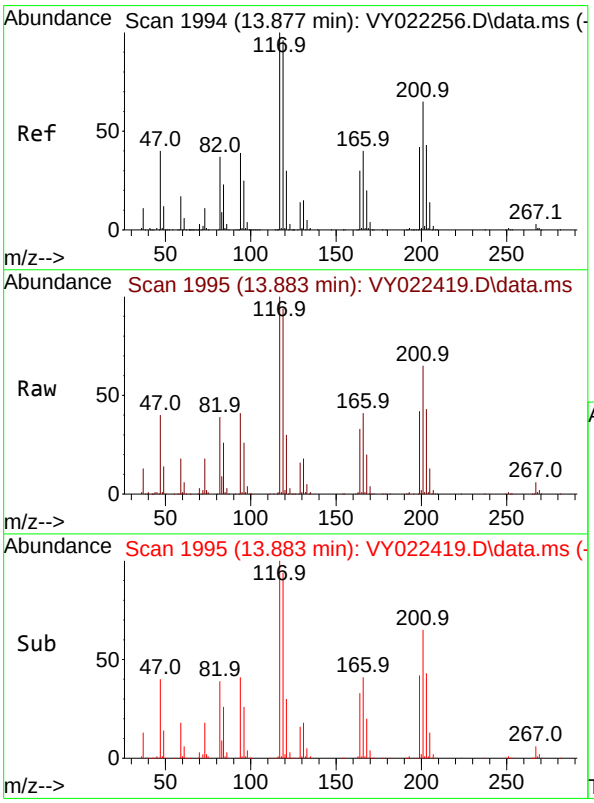
#89
n-Butylbenzene
Concen: 42.375 ug/l
RT: 13.621 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 405742

Ion	Ratio	Lower	Upper
91	100		
92	51.3	26.3	78.9
134	24.6	12.4	37.4

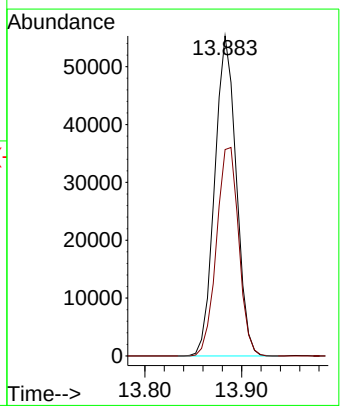


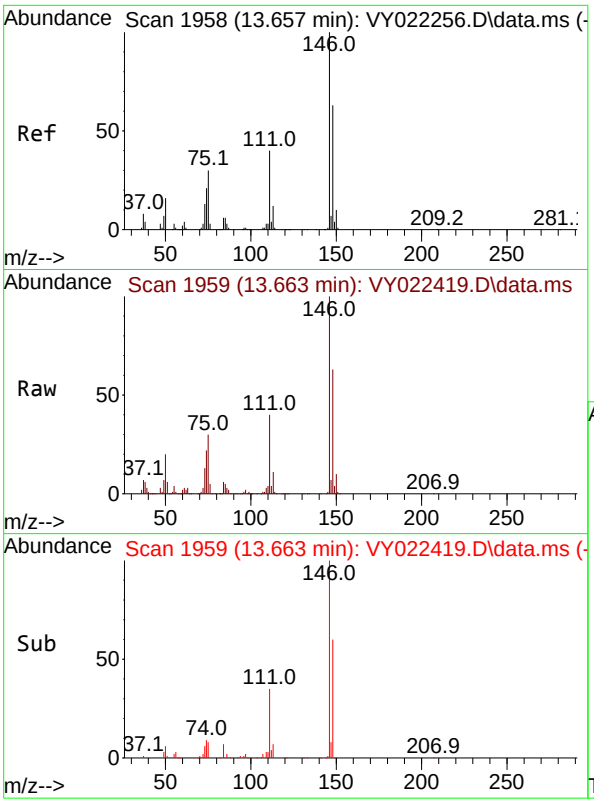


#90
Hexachloroethane
Concen: 41.793 ug/l
RT: 13.883 min Scan# 1995
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Tgt Ion:117 Resp: 85386

Ion	Ratio	Lower	Upper
117	100		
201	67.4	35.2	105.6



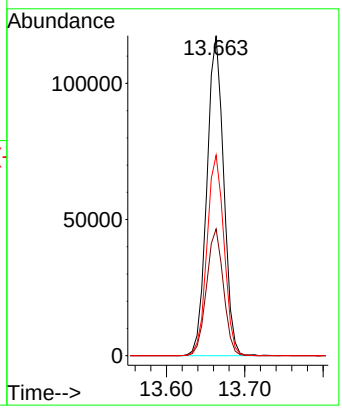


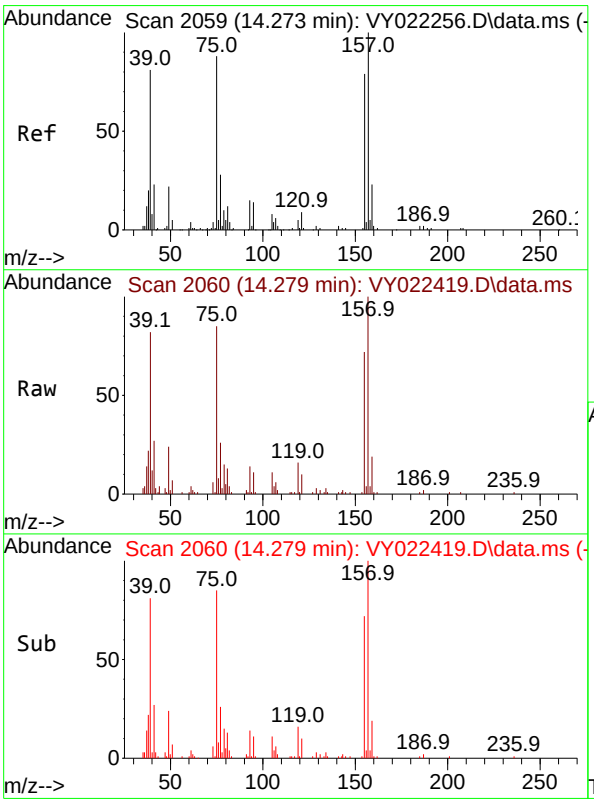
#91
1,2-Dichlorobenzene
Concen: 42.169 ug/l
RT: 13.663 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:146 Resp: 174496

Ion	Ratio	Lower	Upper
146	100		
111	39.9	20.5	61.5
148	63.7	32.0	96.0

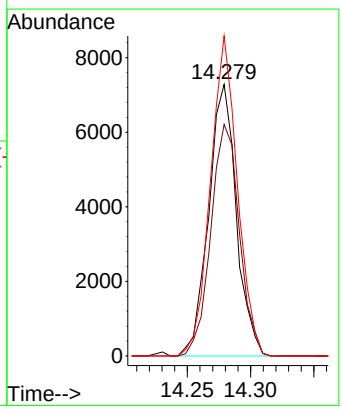


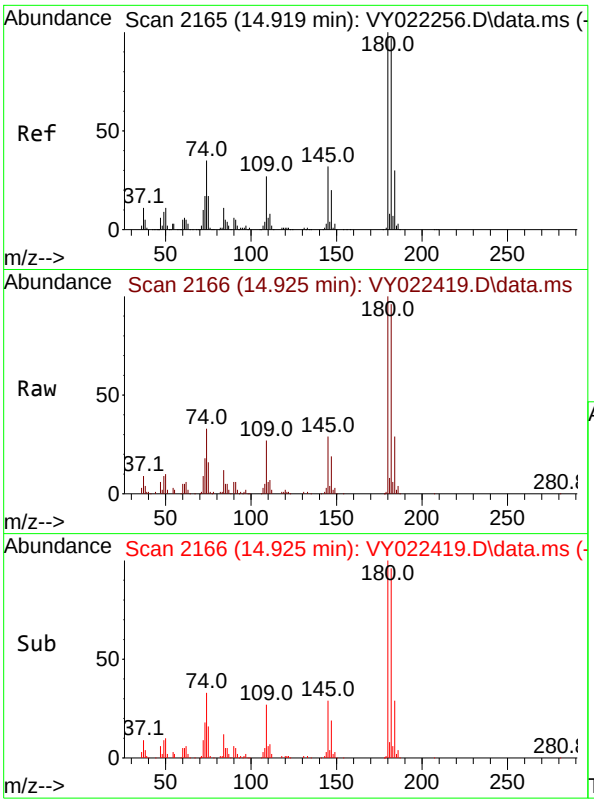


#92
1,2-Dibromo-3-Chloropropane
Concen: 39.489 ug/l
RT: 14.279 min Scan# 2060
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Tgt Ion: 75 Resp: 11065

Ion	Ratio	Lower	Upper
75	100		
155	87.8	43.4	130.1
157	114.7	54.6	163.9



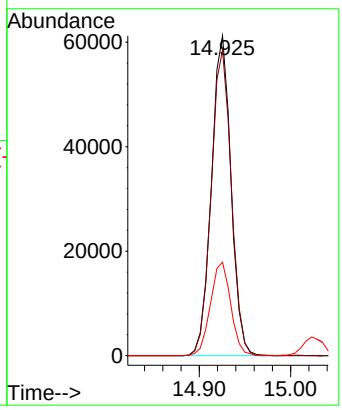


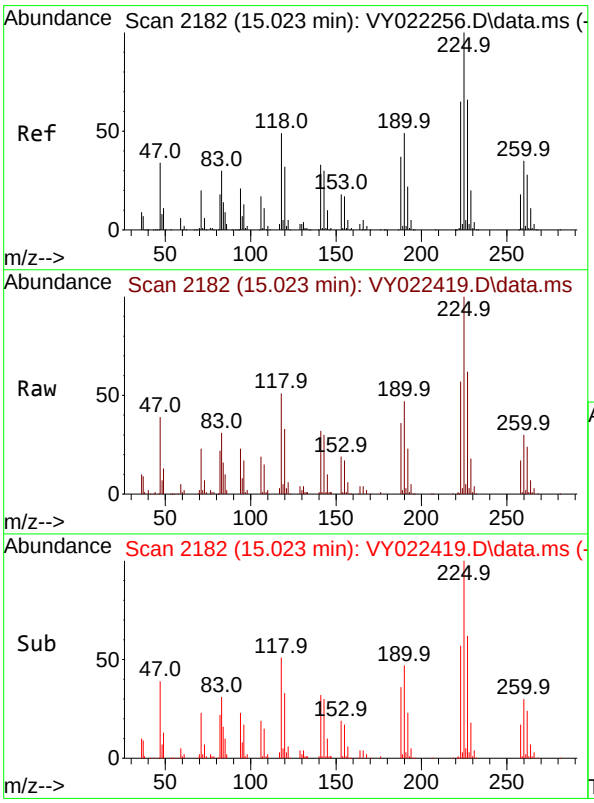
#93
1,2,4-Trichlorobenzene
Concen: 38.119 ug/l
RT: 14.925 min Scan# 21
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:180 Resp: 91115

Ion	Ratio	Lower	Upper
180	100		
182	97.9	48.0	144.0
145	30.3	15.0	45.1

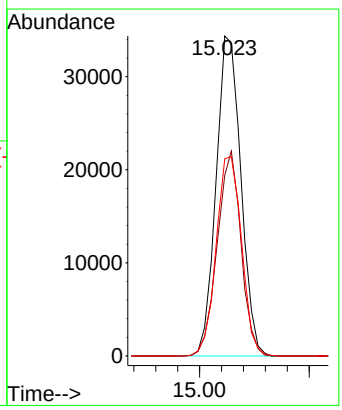


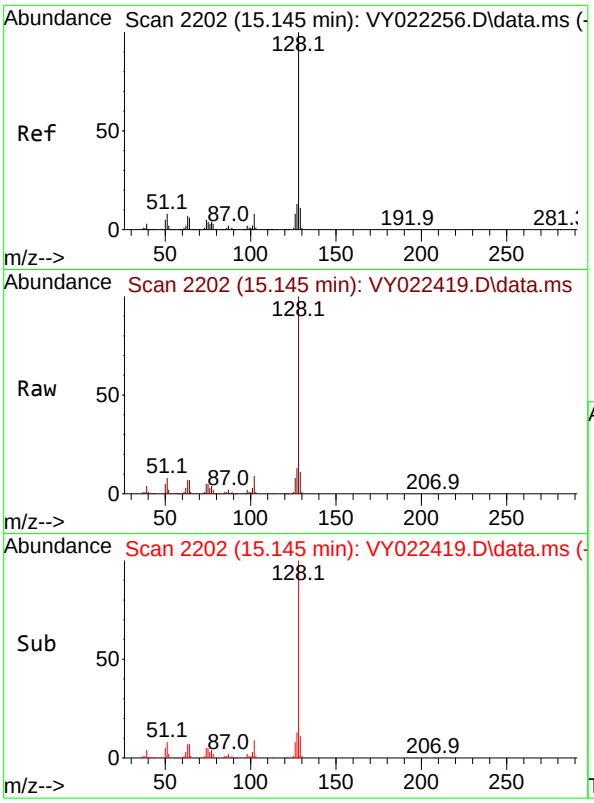


#94
Hexachlorobutadiene
Concen: 40.539 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. -0.000 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Tgt Ion:225 Resp: 54038

Ion	Ratio	Lower	Upper
225	100		
223	61.2	31.5	94.5
227	63.7	32.1	96.3



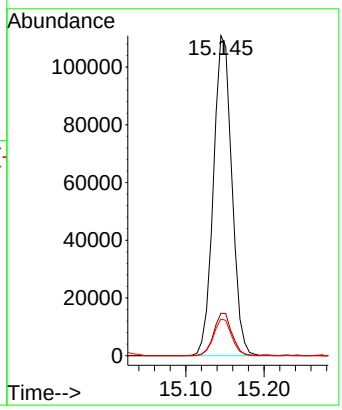


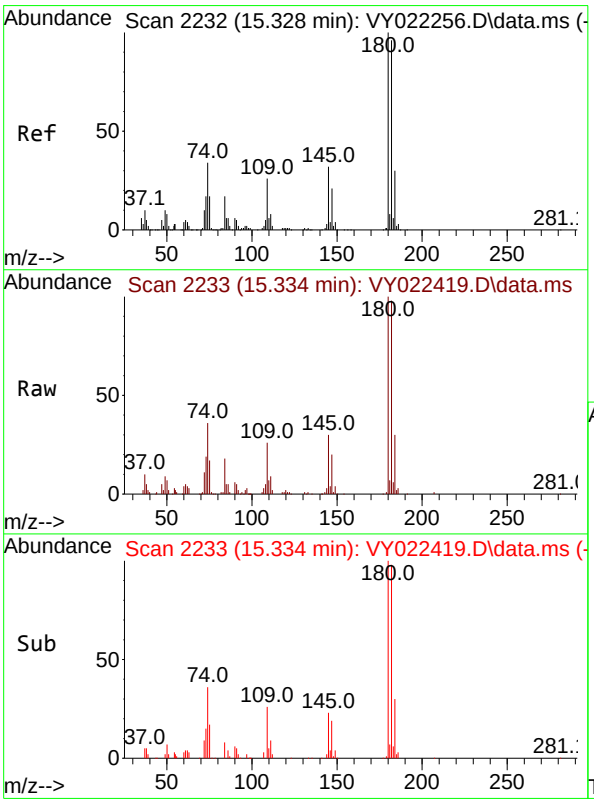
#95
Naphthalene
Concen: 39.976 ug/l
RT: 15.145 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:128 Resp: 181330

Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.2	15.2
129	11.3	8.8	13.2

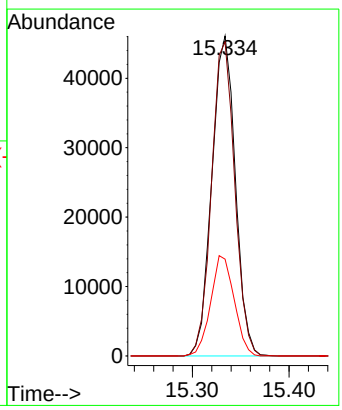




#96
1,2,3-Trichlorobenzene
Concen: 38.184 ug/l
RT: 15.334 min Scan# 2233
Delta R.T. 0.006 min
Lab File: VY022419.D
Acq: 23 May 2025 20:20

Tgt Ion:180 Resp: 77428

Ion	Ratio	Lower	Upper
180	100		
182	97.0	47.1	141.3
145	31.4	15.9	47.6



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022421.D
Acq On : 27 May 2025 08:50
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Quant Time: May 28 09:38:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 09:30:53 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	7.713	168	266668	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	8.622	114	453411	50.000	ug/l		0.00
63) Chlorobenzene-d5	11.420	117	366267	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	13.352	152	162324	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	8.067	65	13513	4.811	ug/l		0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	9.620%#			
35) Dibromofluoromethane	7.640	113	13007	4.898	ug/l		0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	9.800%#			
50) Toluene-d8	10.115	98	52564	4.856	ug/l		0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	9.720%#			
62) 4-Bromofluorobenzene	12.408	95	17111	5.226	ug/l		0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	10.460%#			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.867	85	14514	5.705	ug/l		97
3) Chloromethane	2.068	50	36383	5.814	ug/l		99
4) Vinyl Chloride	2.208	62	40931	5.384	ug/l		100
5) Bromomethane	2.604	94	33633	4.868	ug/l		95
6) Chloroethane	2.739	64	24812	4.994	ug/l		99
7) Trichlorofluoromethane	3.062	101	33151	5.168	ug/l		96
8) Diethyl Ether	3.464	74	7356	4.974	ug/l		99
9) 1,1,2-Trichlorotrifluo...	3.824	101	14725	5.233	ug/l		98
10) Methyl Iodide	4.013	142	13178	4.151	ug/l		96
11) Tert butyl alcohol	4.872	59	2634	13.303	ug/l	#	70
12) 1,1-Dichloroethene	3.799	96	14718	5.268	ug/l		94
13) Acrolein	3.665	56	6888	23.219	ug/l	#	77
14) Allyl chloride	4.397	41	20931	4.980	ug/l		95
15) Acrylonitrile	5.080	53	14224	23.859	ug/l		96
16) Acetone	3.885	43	12519	27.123	ug/l	#	89
17) Carbon Disulfide	4.110	76	44596	5.002	ug/l		96
18) Methyl Acetate	4.391	43	7671	4.437	ug/l		93
19) Methyl tert-butyl Ether	5.128	73	36078	4.864	ug/l		98
20) Methylene Chloride	4.622	84	20751	6.367	ug/l		94
21) trans-1,2-Dichloroethene	5.128	96	15870	5.203	ug/l		91
22) Diisopropyl ether	6.025	45	45596	4.916	ug/l		95
23) Vinyl Acetate	5.970	43	129326	24.282	ug/l		99
24) 1,1-Dichloroethane	5.927	63	26673	4.866	ug/l		97
25) 2-Butanone	6.909	43	18294	23.799	ug/l		97
26) 2,2-Dichloropropane	6.896	77	24997	5.037	ug/l		99
27) cis-1,2-Dichloroethene	6.902	96	17459	4.944	ug/l		97
28) Bromochloromethane	7.250	49	10658	4.657	ug/l	#	98
29) Tetrahydrofuran	7.274	42	12618	24.613	ug/l		99
30) Chloroform	7.433	83	25766	4.771	ug/l		99
31) Cyclohexane	7.713	56	32546	6.024	ug/l	#	81
32) 1,1,1-Trichloroethane	7.622	97	23999	4.896	ug/l		99
36) 1,1-Dichloropropene	7.847	75	21399	5.079	ug/l		98
37) Ethyl Acetate	6.988	43	8953	5.000	ug/l		97
38) Carbon Tetrachloride	7.829	117	21453	4.888	ug/l		99
39) Methylcyclohexane	9.115	83	27716	4.948	ug/l		98
40) Benzene	8.085	78	59324	4.732	ug/l		98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022421.D
Acq On : 27 May 2025 08:50
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Quant Time: May 28 09:38:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 09:30:53 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	7.268	41	6209	2.635 ug/l	#	26
42) 1,2-Dichloroethane	8.164	62	15776	4.764 ug/l		98
43) Isopropyl Acetate	8.201	43	18244	4.662 ug/l		98
44) Trichloroethene	8.872	130	15132	4.882 ug/l		87
45) 1,2-Dichloropropane	9.146	63	14536	4.935 ug/l		95
46) Dibromomethane	9.237	93	8142	4.948 ug/l		94
47) Bromodichloromethane	9.426	83	20477	4.839 ug/l		94
48) Methyl methacrylate	9.225	41	8390	4.619 ug/l		95
49) 1,4-Dioxane	9.256	88	1711	94.135 ug/l	#	80
51) 4-Methyl-2-Pentanone	10.006	43	42047	21.778 ug/l		95
52) Toluene	10.176	92	35452	4.527 ug/l		99
53) t-1,3-Dichloropropene	10.396	75	18117	4.596 ug/l		100
54) cis-1,3-Dichloropropene	9.865	75	21634	4.671 ug/l		98
55) 1,1,2-Trichloroethane	10.579	97	9913	4.765 ug/l		92
56) Ethyl methacrylate	10.444	69	12714	4.258 ug/l		94
57) 1,3-Dichloropropane	10.725	76	17193	4.689 ug/l		92
58) 2-Chloroethyl Vinyl ether	9.719	63	32506	21.845 ug/l		96
59) 2-Hexanone	10.768	43	27506	21.739 ug/l		99
60) Dibromochloromethane	10.914	129	11708	4.405 ug/l		95
61) 1,2-Dibromoethane	11.024	107	9019	4.739 ug/l		99
64) Tetrachloroethene	10.652	164	15876	5.090 ug/l		94
65) Chlorobenzene	11.444	112	37368	4.785 ug/l		97
66) 1,1,1,2-Tetrachloroethane	11.524	131	11929	4.508 ug/l		95
67) Ethyl Benzene	11.524	91	66757	4.603 ug/l		96
68) m/p-Xylenes	11.633	106	51109	9.296 ug/l		96
69) o-Xylene	11.956	106	23941	4.633 ug/l		98
70) Styrene	11.975	104	37982	4.414 ug/l		98
71) Bromoform	12.139	173	6180	4.459 ug/l	#	99
73) Isopropylbenzene	12.255	105	62701	4.908 ug/l		99
74) N-amyl acetate	12.072	43	14329	4.584 ug/l		96
75) 1,1,2,2-Tetrachloroethane	12.511	83	10107	5.021 ug/l		96
76) 1,2,3-Trichloropropane	12.554	75	14024	5.244 ug/l	#	100
77) Bromobenzene	12.536	156	13050	4.747 ug/l		98
78) n-propylbenzene	12.597	91	74444	4.856 ug/l		100
79) 2-Chlorotoluene	12.682	91	41511	5.002 ug/l		99
80) 1,3,5-Trimethylbenzene	12.743	105	47346	4.743 ug/l		98
81) trans-1,4-Dichloro-2-b...	12.304	75	3492	4.857 ug/l		97
82) 4-Chlorotoluene	12.779	91	41039	4.801 ug/l		97
83) tert-Butylbenzene	12.999	119	44656	4.951 ug/l		98
84) 1,2,4-Trimethylbenzene	13.048	105	47206	4.699 ug/l		98
85) sec-Butylbenzene	13.182	105	65492	4.897 ug/l		100
86) p-Isopropyltoluene	13.298	119	51853	4.643 ug/l		99
87) 1,3-Dichlorobenzene	13.292	146	25760	4.657 ug/l		99
88) 1,4-Dichlorobenzene	13.371	146	25910	4.899 ug/l		92
89) n-Butylbenzene	13.621	91	50178	4.792 ug/l		98
90) Hexachloroethane	13.883	117	11019	4.958 ug/l		99
91) 1,2-Dichlorobenzene	13.663	146	22457	4.860 ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.279	75	1667	5.360 ug/l		82
93) 1,2,4-Trichlorobenzene	14.925	180	11591	4.525 ug/l		96
94) Hexachlorobutadiene	15.029	225	6893	5.128 ug/l		97
95) Naphthalene	15.151	128	20065	4.237 ug/l		98
96) 1,2,3-Trichlorobenzene	15.334	180	9338	4.445 ug/l		96

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022421.D
Acq On : 27 May 2025 08:50
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Quant Time: May 28 09:38:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 09:30:53 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

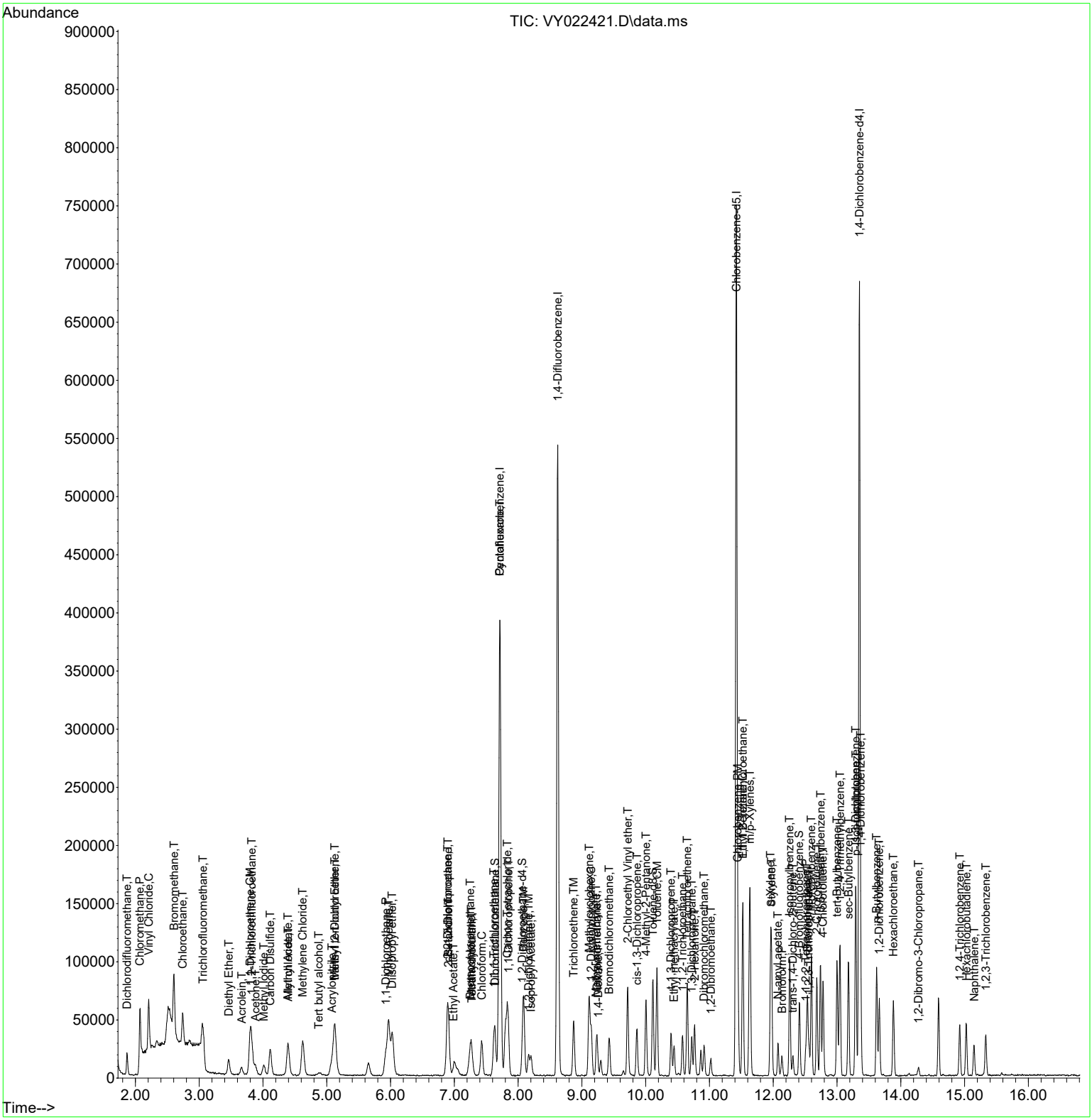
(#) = qualifier out of range (m) = manual integration (+) = signals summed

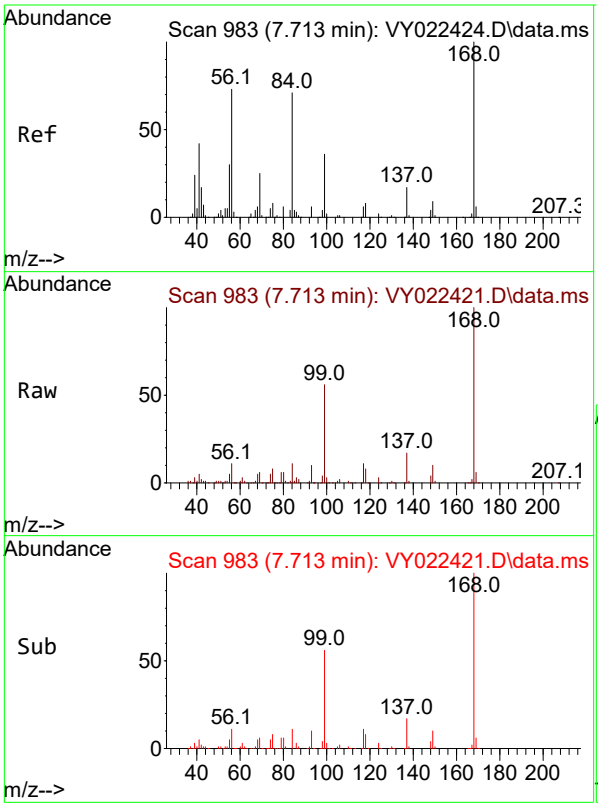
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022421.D
Acq On : 27 May 2025 08:50
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Quant Time: May 28 09:38:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 09:30:53 2025
Response via : Initial Calibration



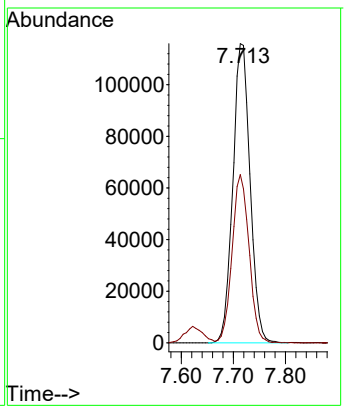


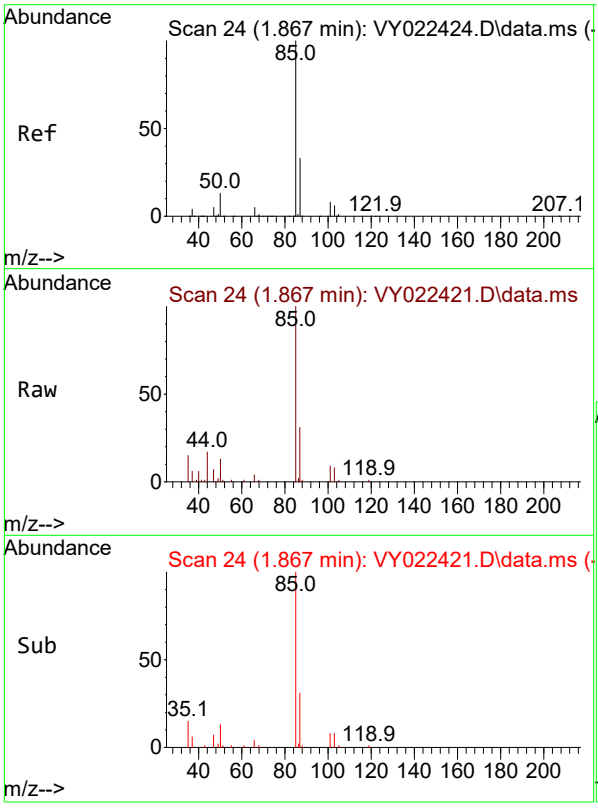
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion:168 Resp: 266668

Ion	Ratio	Lower	Upper
168	100		
99	56.2	44.7	67.1

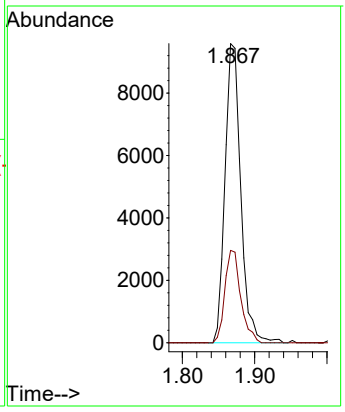


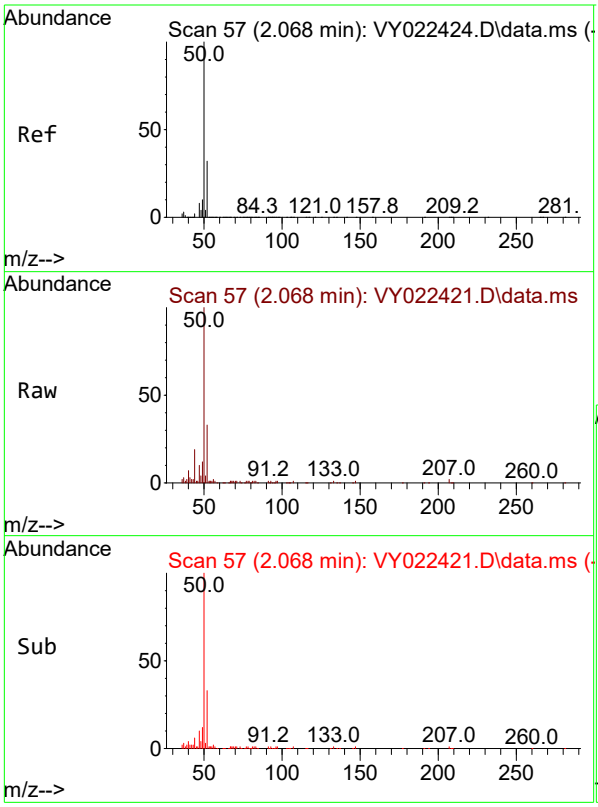


#2
Dichlorodifluoromethane
Concen: 5.705 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.000 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 85 Resp: 14514

Ion	Ratio	Lower	Upper
85	100		
87	30.9	16.4	49.2



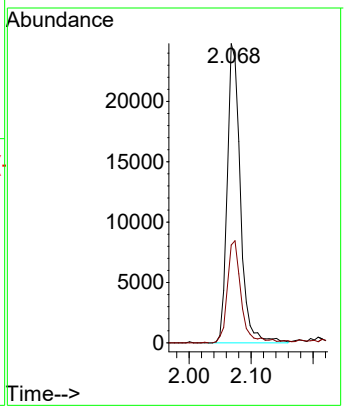


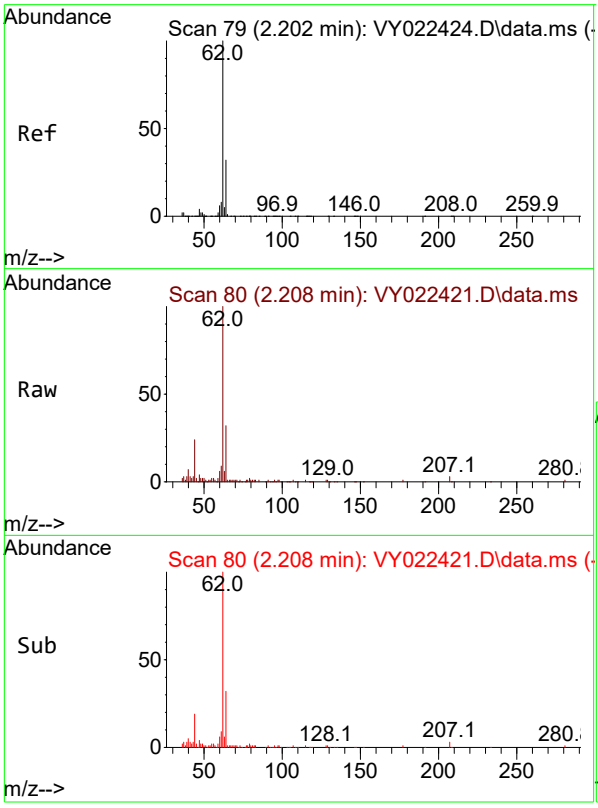
#3
Chloromethane
Concen: 5.814 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 50 Resp: 36383

Ion	Ratio	Lower	Upper
50	100		
52	32.7	25.5	38.3

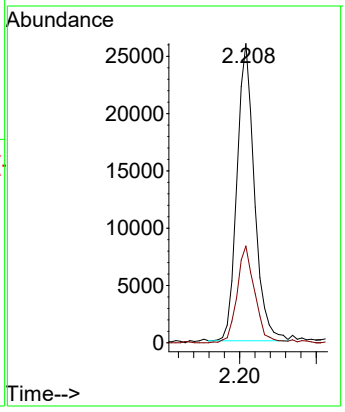


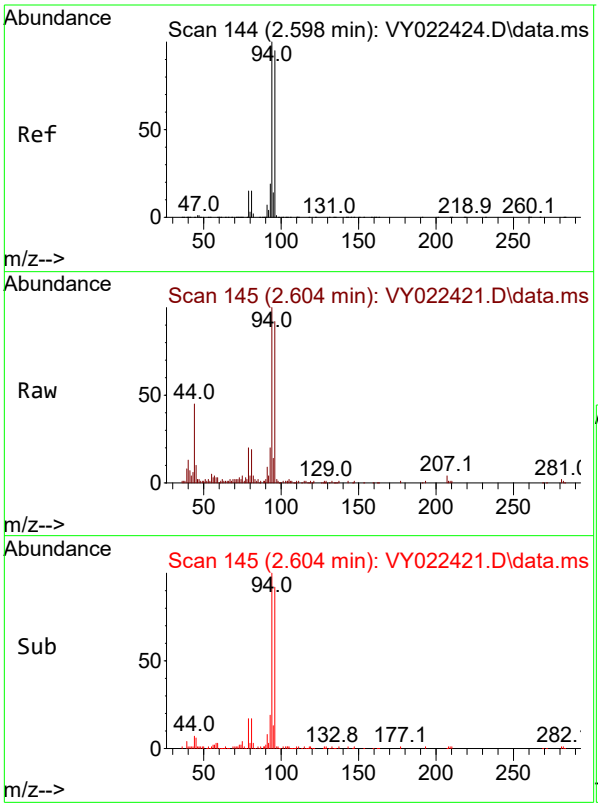


#4
Vinyl Chloride
Concen: 5.384 ug/l
RT: 2.208 min Scan# 80
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 62 Resp: 40931

Ion	Ratio	Lower	Upper
62	100		
64	32.6	26.0	39.0



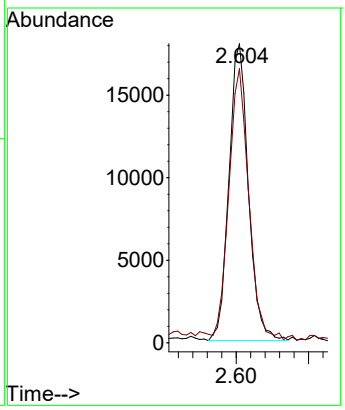


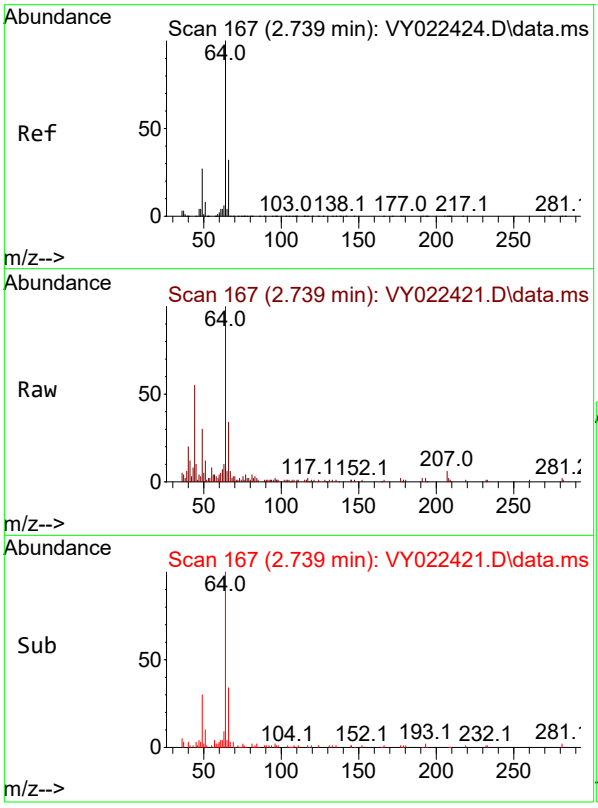
#5
Bromomethane
Concen: 4.868 ug/l
RT: 2.604 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 94 Resp: 33633

Ion	Ratio	Lower	Upper
94	100		
96	90.3	76.0	114.0

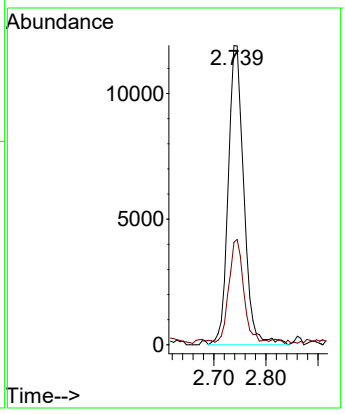


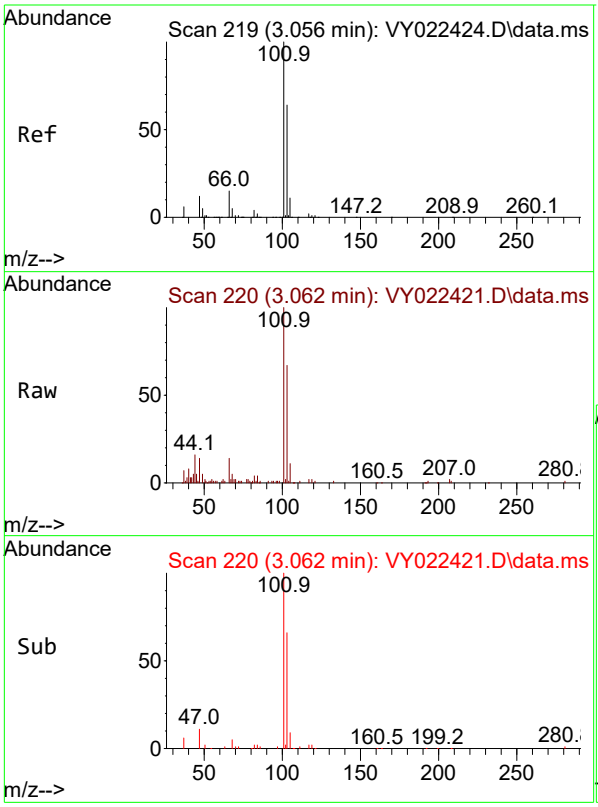


#6
Chloroethane
Concen: 4.994 ug/l
RT: 2.739 min Scan# 167
Delta R.T. 0.000 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 64 Resp: 24812

Ion	Ratio	Lower	Upper
64	100		
66	32.8	25.9	38.9



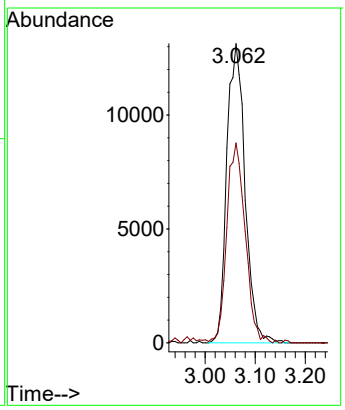


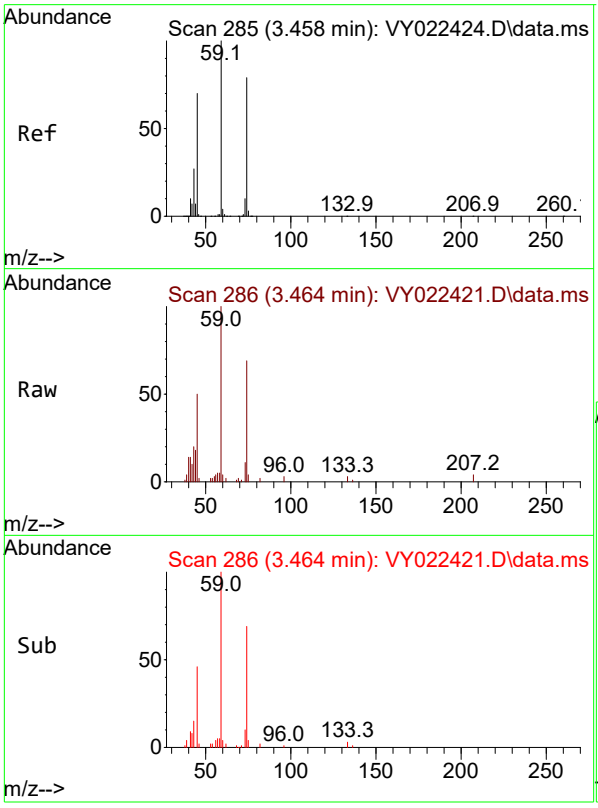
#7
Trichlorofluoromethane
Concen: 5.168 ug/l
RT: 3.062 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion:101 Resp: 33151

Ion	Ratio	Lower	Upper
101	100		
103	66.3	50.9	76.3

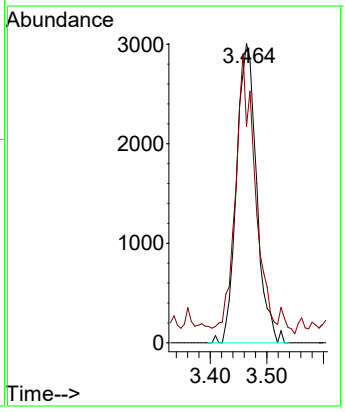


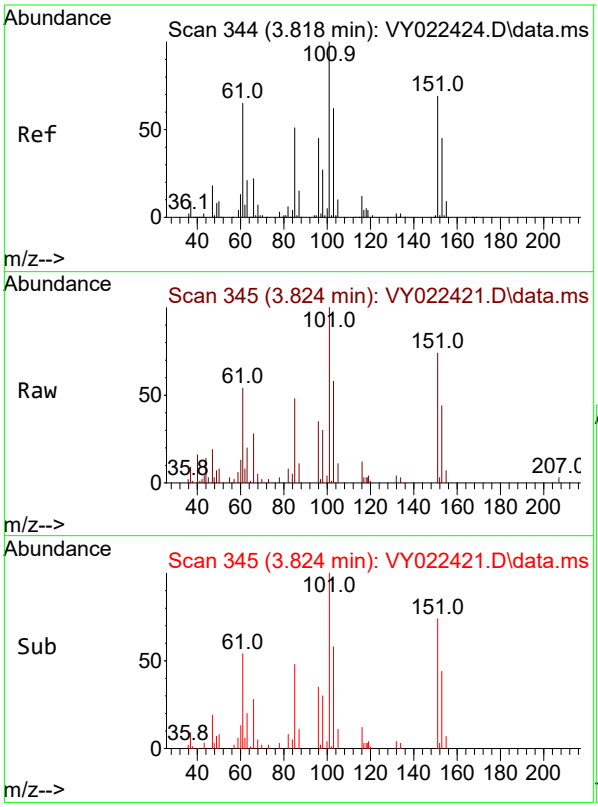


#8
Diethyl Ether
Concen: 4.974 ug/l
RT: 3.464 min Scan# 286
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 74 Resp: 7356

Ion	Ratio	Lower	Upper
74	100		
45	91.1	44.9	134.5



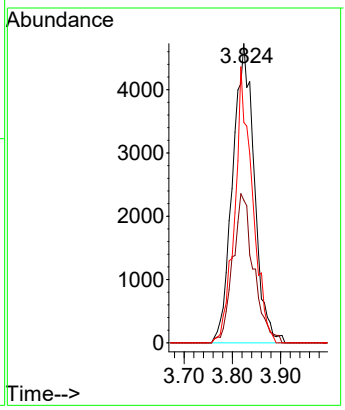


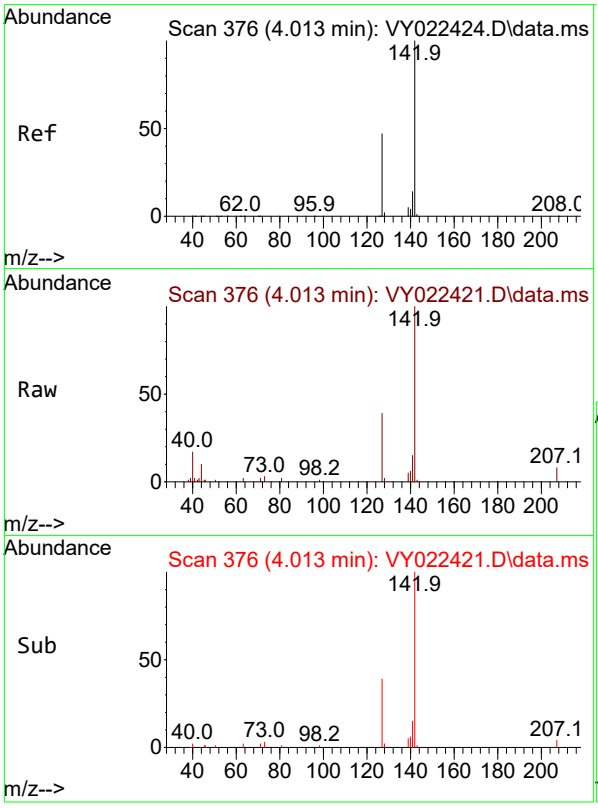
#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.233 ug/l
RT: 3.824 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion:101 Resp: 14725

Ion	Ratio	Lower	Upper
101	100		
85	48.1	39.2	58.8
151	75.6	58.8	88.2

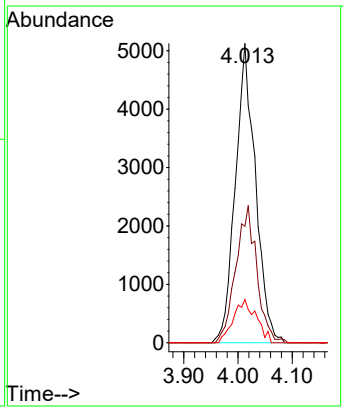


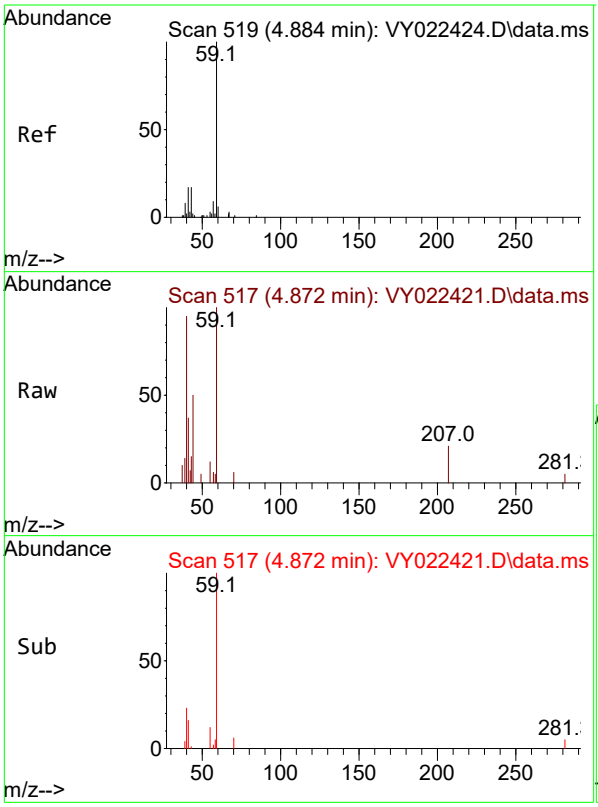


#10
Methyl Iodide
Concen: 4.151 ug/l
RT: 4.013 min Scan# 376
Delta R.T. 0.000 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion:142 Resp: 13178

Ion	Ratio	Lower	Upper
142	100		
127	48.0	36.2	54.4
141	16.4	11.6	17.4



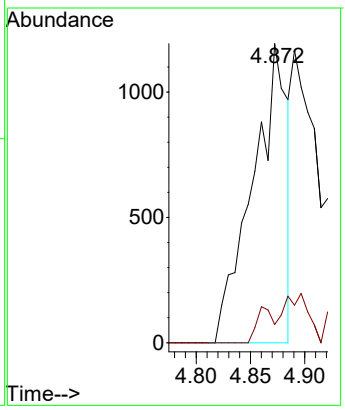


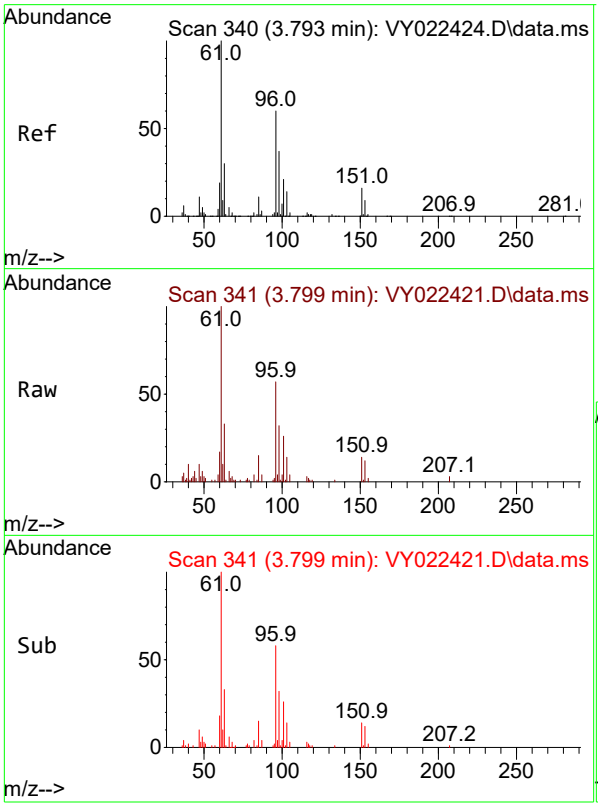
#11
Tert butyl alcohol
Concen: 13.303 ug/l
RT: 4.872 min Scan# 5
Delta R.T. -0.012 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 59 Resp: 2634

Ion	Ratio	Lower	Upper
59	100		
57	0.0	9.1	13.7#

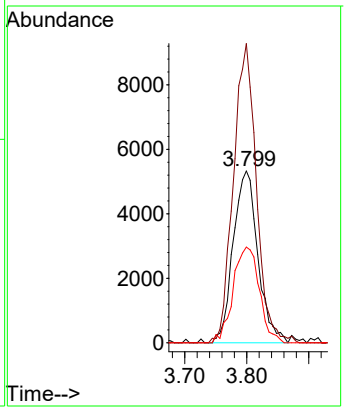


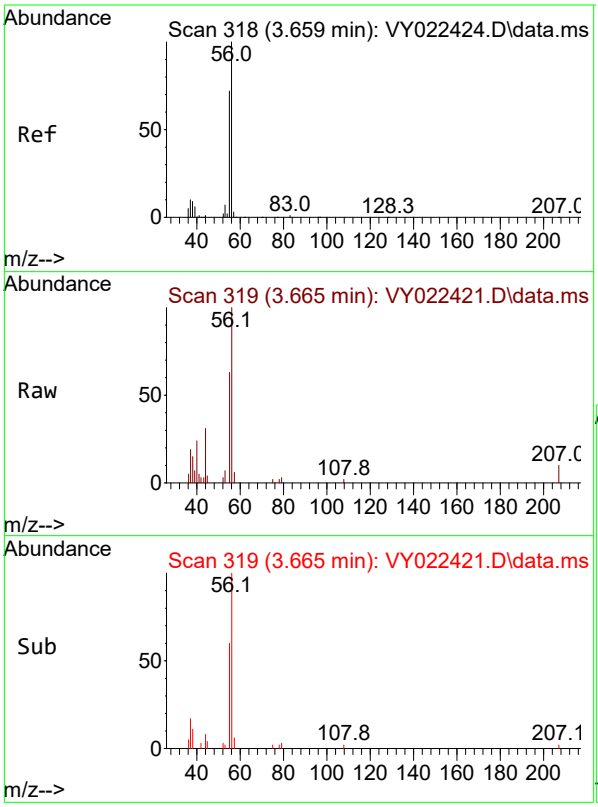


#12
1,1-Dichloroethene
Concen: 5.268 ug/l
RT: 3.799 min Scan# 341
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 96 Resp: 14718

Ion	Ratio	Lower	Upper
96	100		
61	174.1	134.1	201.1
98	55.7	50.2	75.2



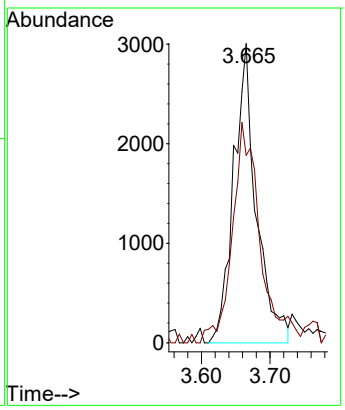


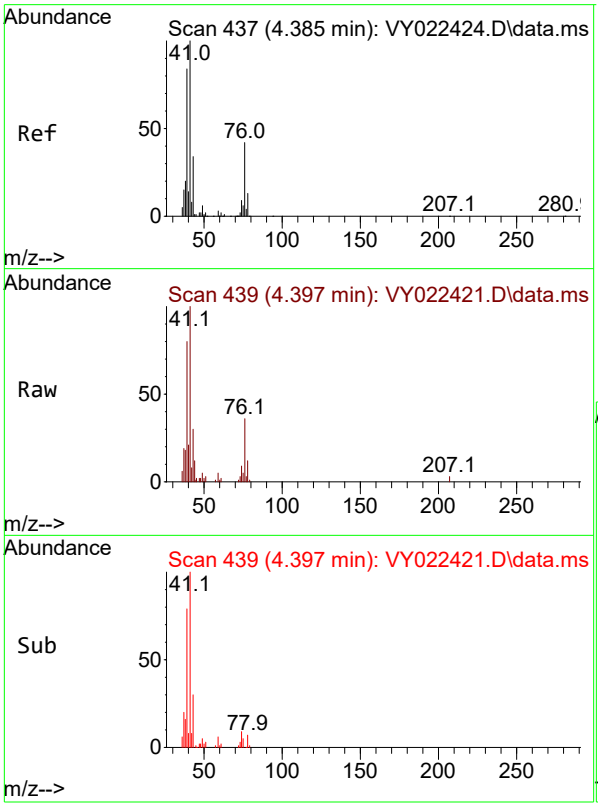
#13
Acrolein
Concen: 23.219 ug/l
RT: 3.665 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 56 Resp: 6888

Ion	Ratio	Lower	Upper
56	100		
55	89.6	56.5	84.7#

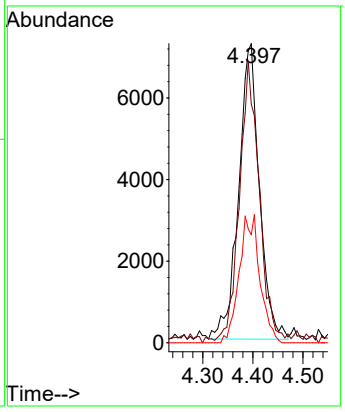


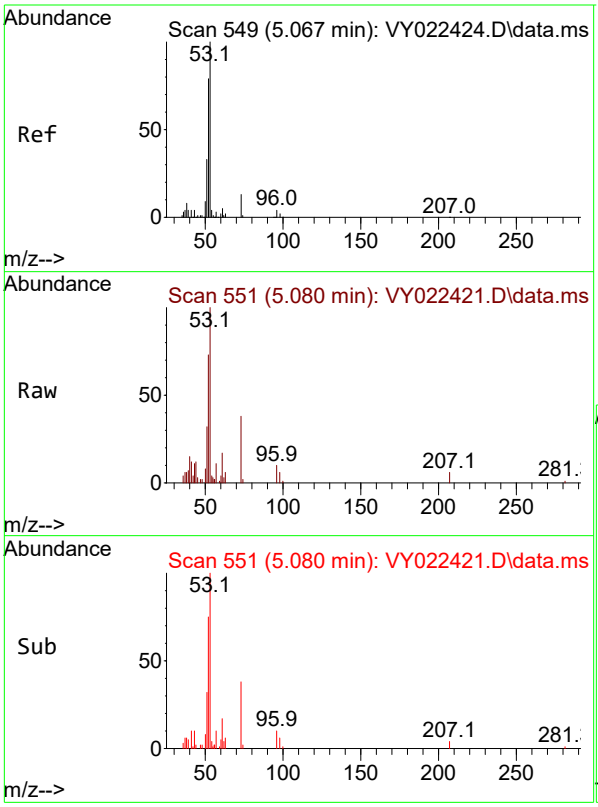


#14
Allyl chloride
Concen: 4.980 ug/l
RT: 4.397 min Scan# 439
Delta R.T. 0.012 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 41 Resp: 20931

Ion	Ratio	Lower	Upper
41	100		
39	89.3	66.6	100.0
76	42.7	33.7	50.5



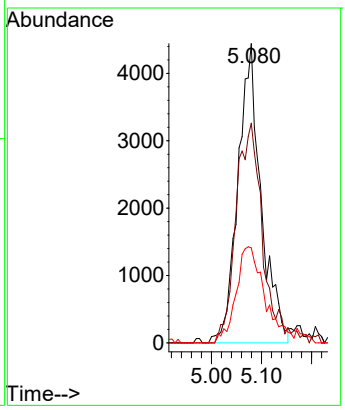


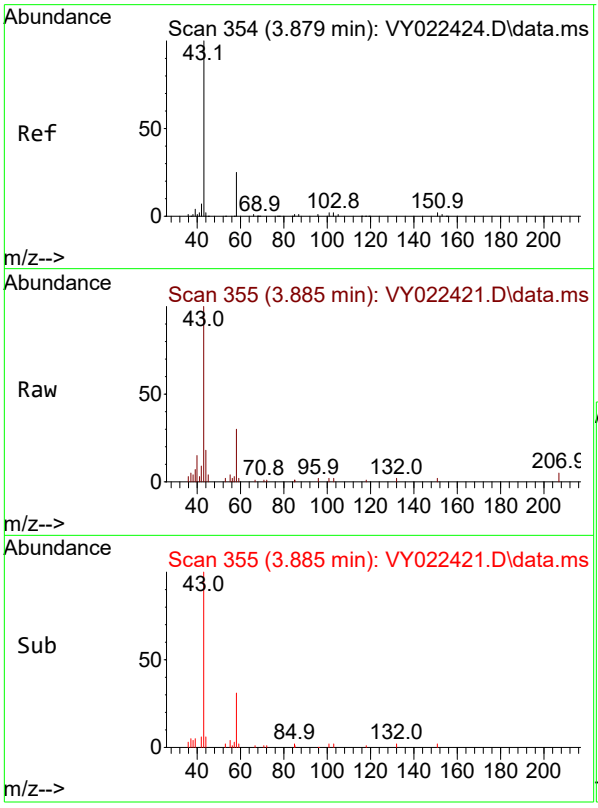
#15
Acrylonitrile
Concen: 23.859 ug/l
RT: 5.080 min Scan# 5
Delta R.T. 0.012 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 53 Resp: 14224

Ion	Ratio	Lower	Upper
53	100		
52	85.0	65.1	97.7
51	40.0	30.0	45.0

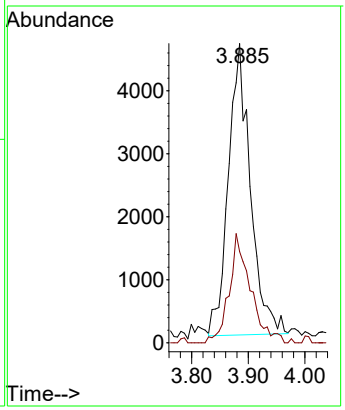


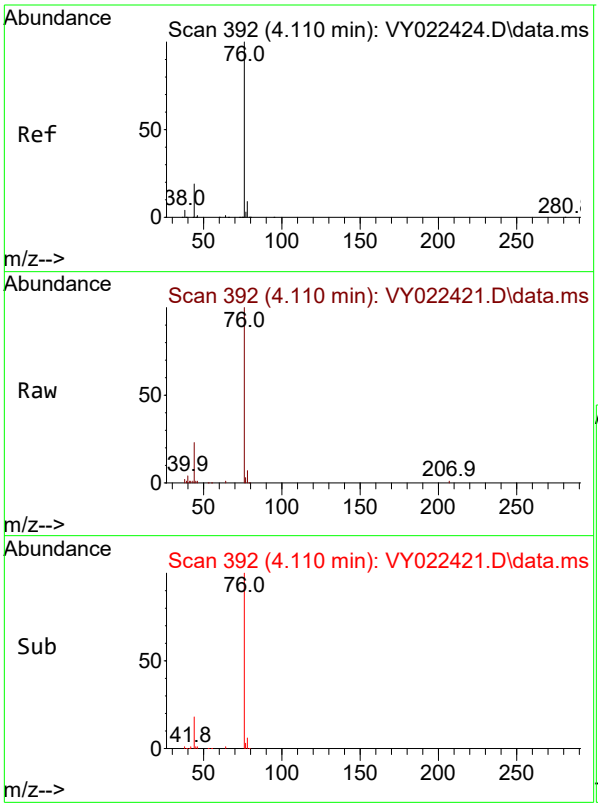


#16
Acetone
Concen: 27.123 ug/l
RT: 3.885 min Scan# 355
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 43 Resp: 12519

Ion	Ratio	Lower	Upper
43	100		
58	31.4	20.6	30.8#



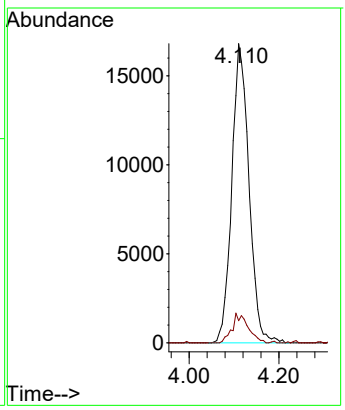


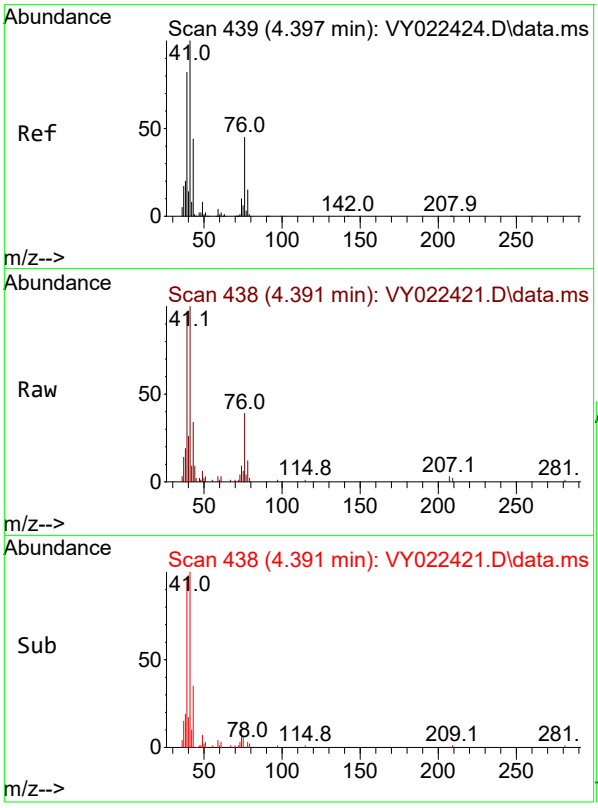
#17
Carbon Disulfide
Concen: 5.002 ug/l
RT: 4.110 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 76 Resp: 44596

Ion	Ratio	Lower	Upper
76	100		
78	7.4	7.2	10.8

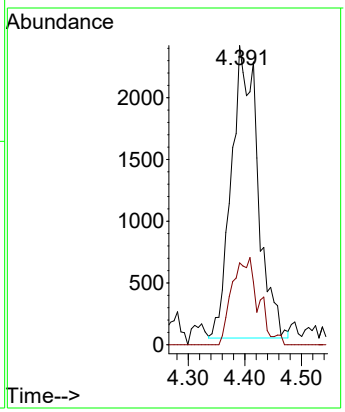


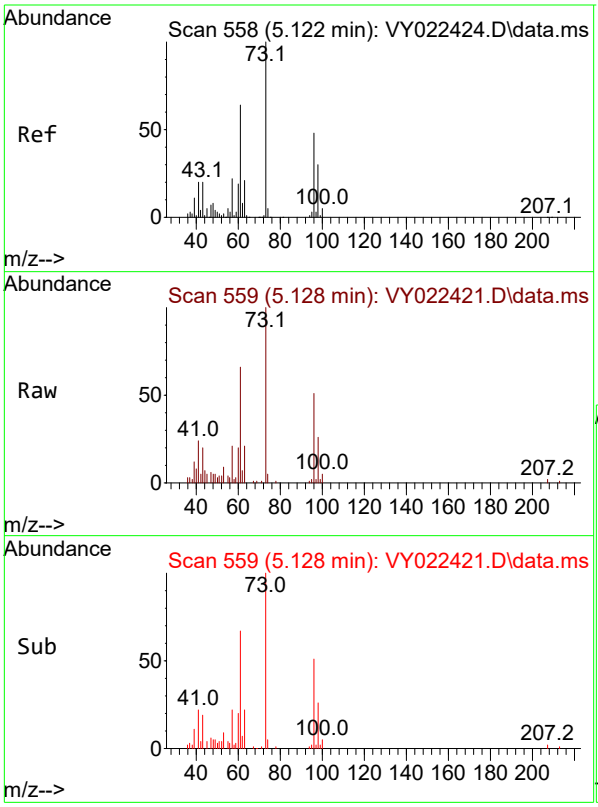


#18
Methyl Acetate
Concen: 4.437 ug/l
RT: 4.391 min Scan# 438
Delta R.T. -0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 43 Resp: 7671

Ion	Ratio	Lower	Upper
43	100		
74	30.0	21.2	31.8



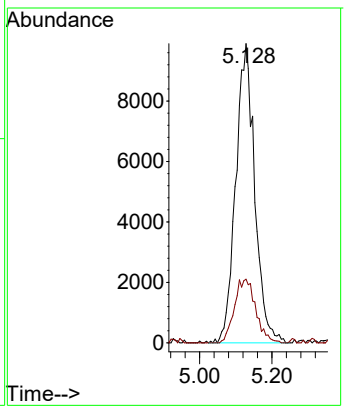


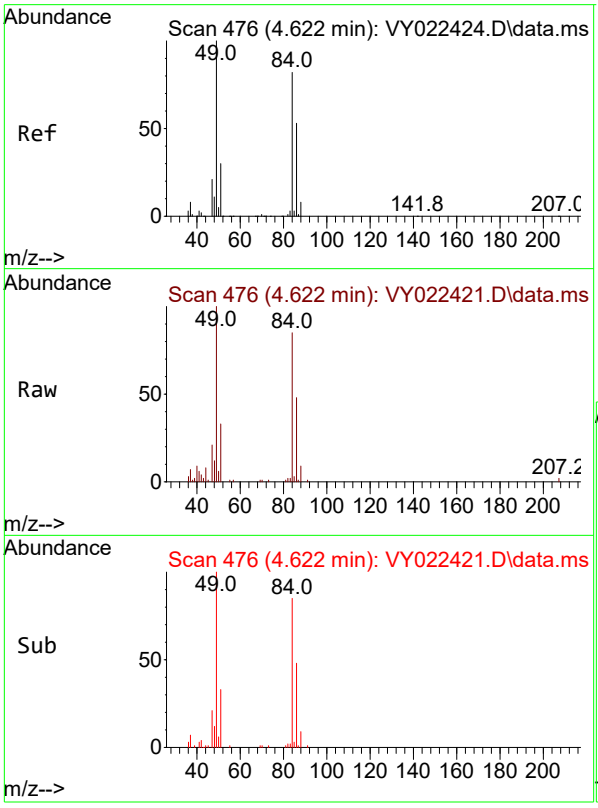
#19
Methyl tert-butyl Ether
Concen: 4.864 ug/l
RT: 5.128 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 73 Resp: 36078

Ion	Ratio	Lower	Upper
73	100		
57	21.3	17.7	26.5

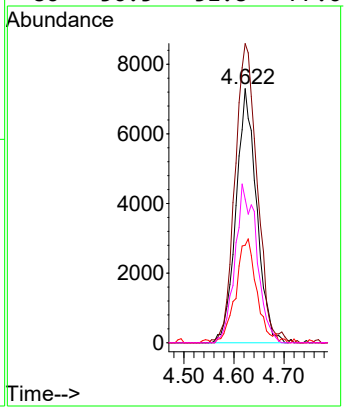


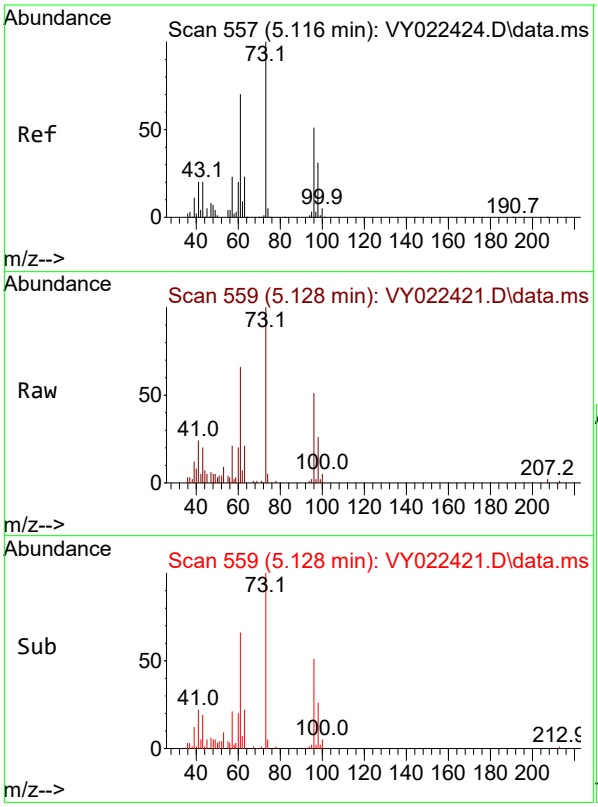


#20
Methylene Chloride
Concen: 6.367 ug/l
RT: 4.622 min Scan# 476
Delta R.T. 0.000 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 84 Resp: 20751

Ion	Ratio	Lower	Upper
84	100		
49	117.7	97.8	146.8
51	38.4	29.5	44.3
86	56.5	51.8	77.6



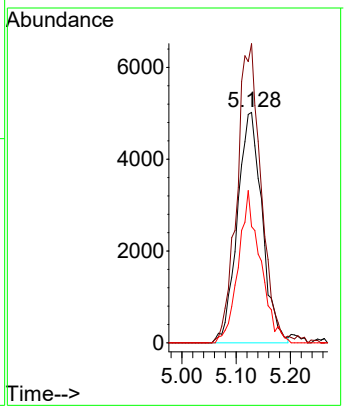


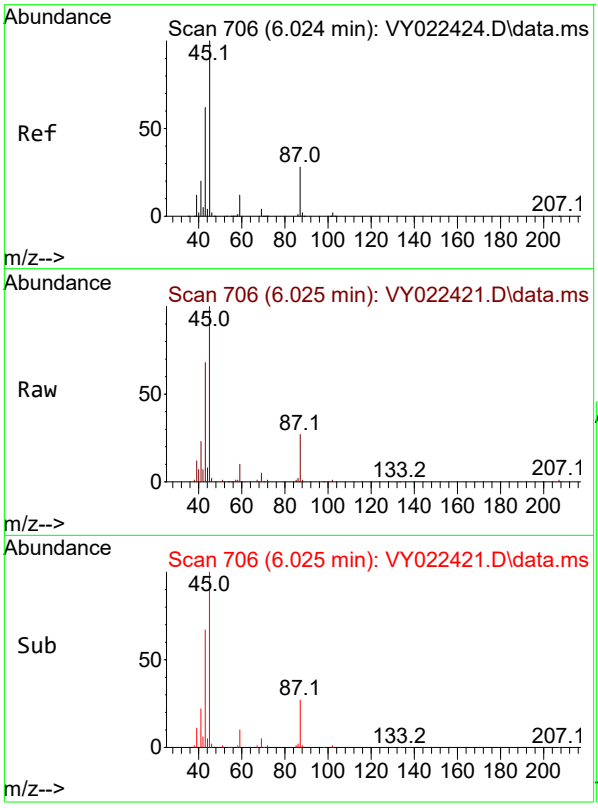
#21
trans-1,2-Dichloroethene
Concen: 5.203 ug/l
RT: 5.128 min Scan# 5
Delta R.T. 0.012 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 96 Resp: 15870

Ion	Ratio	Lower	Upper
96	100		
61	129.8	110.4	165.6
98	50.4	48.6	73.0

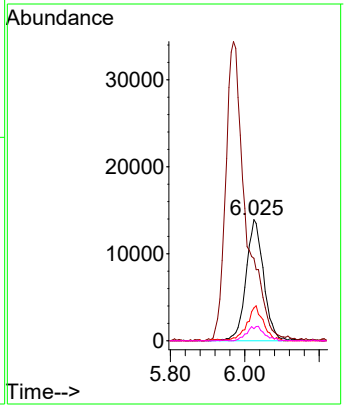


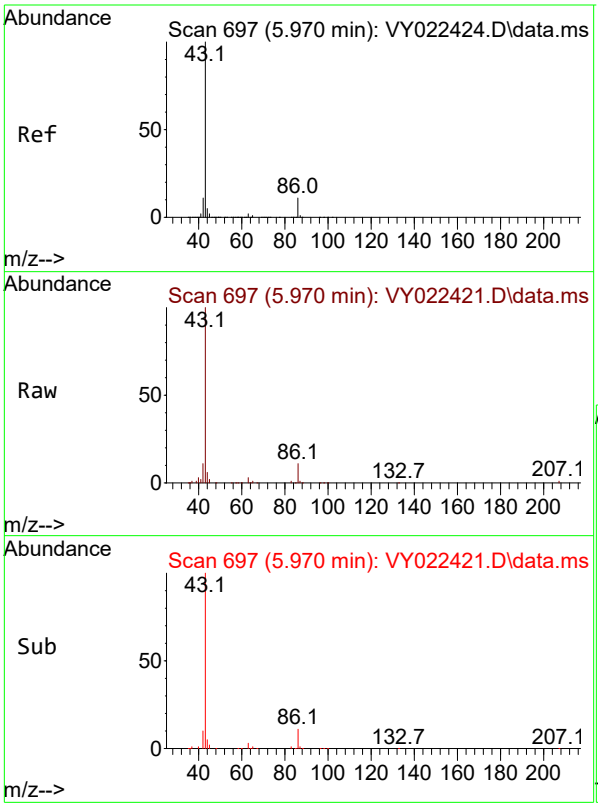


#22
Diisopropyl ether
Concen: 4.916 ug/l
RT: 6.025 min Scan# 706
Delta R.T. 0.000 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 45 Resp: 45596

Ion	Ratio	Lower	Upper
45	100		
43	66.5	49.8	74.8
87	27.1	23.0	34.6
59	10.0	9.7	14.5



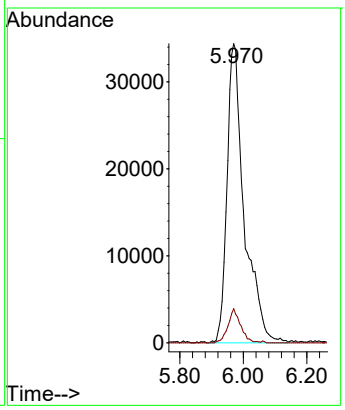


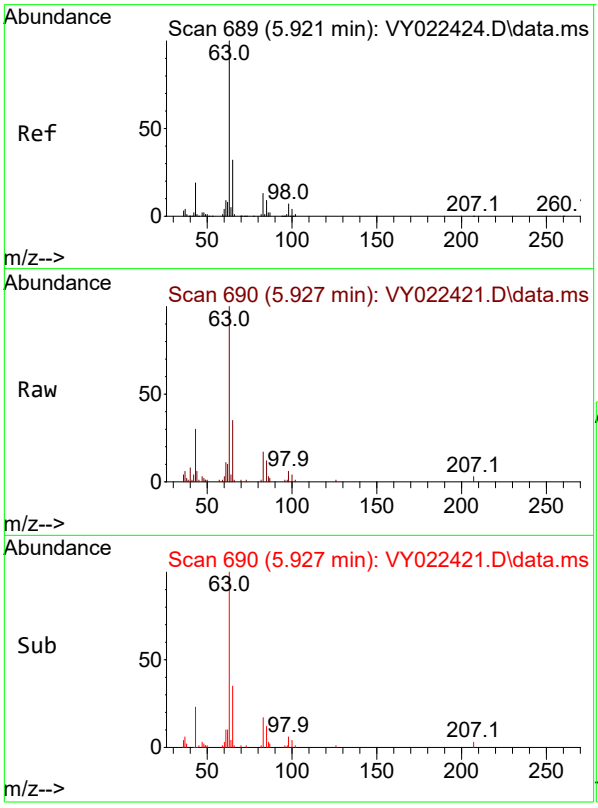
#23
Vinyl Acetate
Concen: 24.282 ug/l
RT: 5.970 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 129326

Ion	Ratio	Lower	Upper
43	100		
86	11.4	8.8	13.2

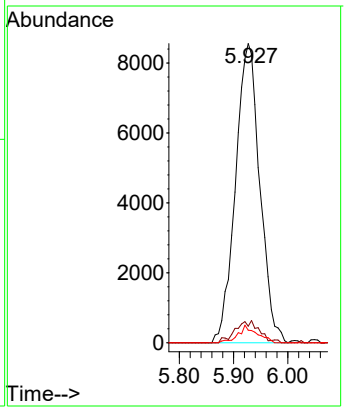


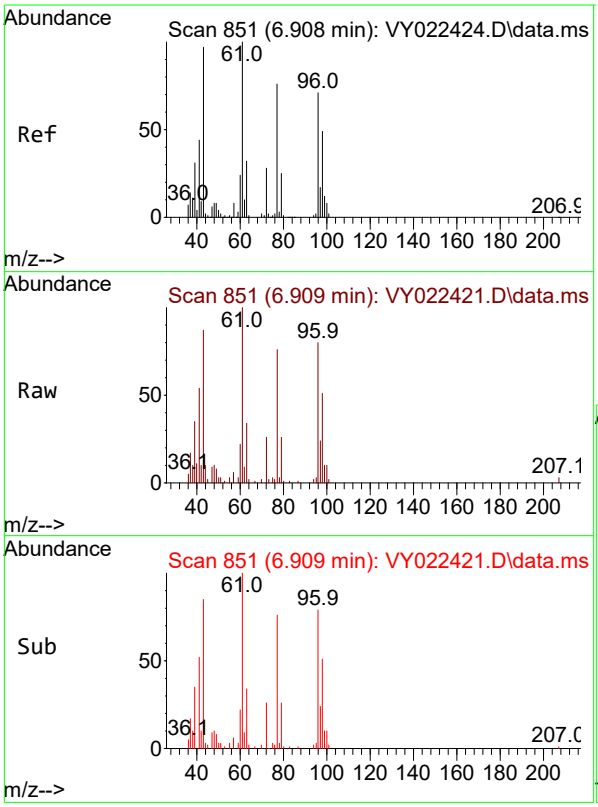


#24
1,1-Dichloroethane
Concen: 4.866 ug/l
RT: 5.927 min Scan# 690
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 63 Resp: 26673

Ion	Ratio	Lower	Upper
63	100		
98	5.5	3.5	10.5
100	4.2	2.1	6.5



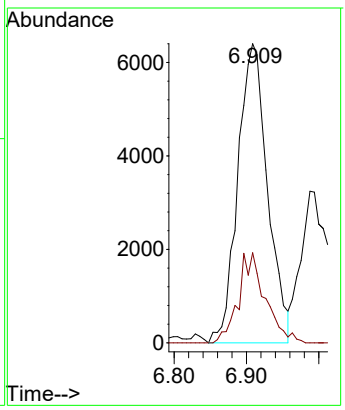


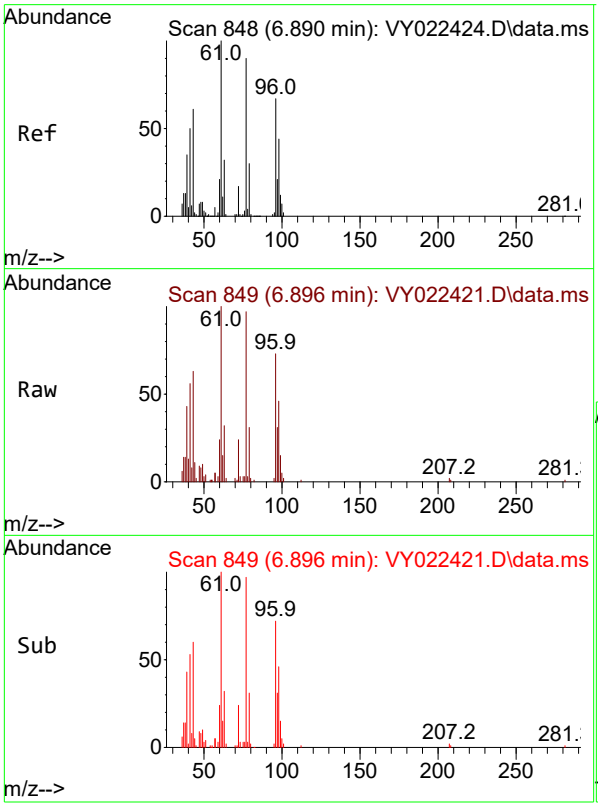
#25
2-Butanone
Concen: 23.799 ug/l
RT: 6.909 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 18294

Ion	Ratio	Lower	Upper
43	100		
72	30.1	22.8	34.2

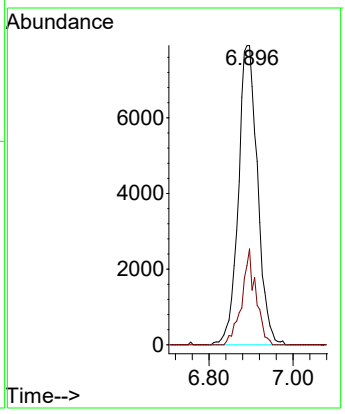


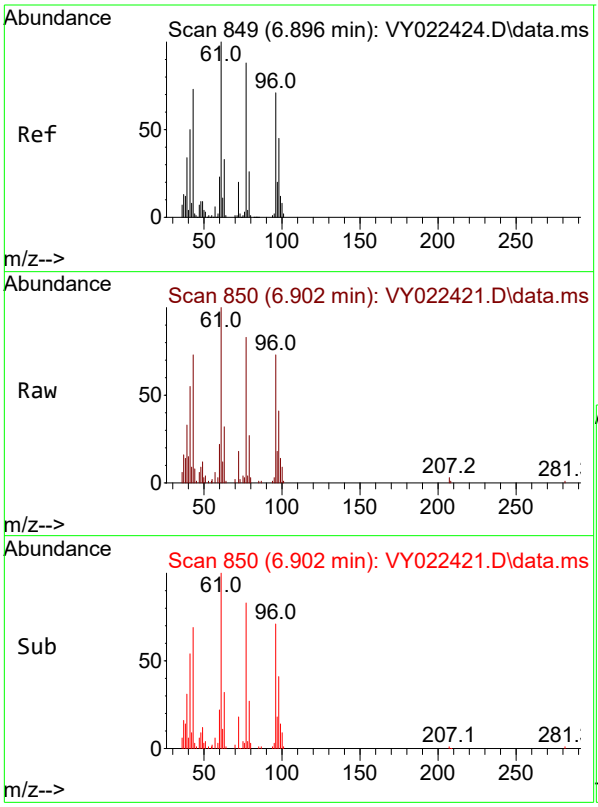


#26
2,2-Dichloropropane
Concen: 5.037 ug/l
RT: 6.896 min Scan# 849
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 77 Resp: 24997

Ion	Ratio	Lower	Upper
77	100		
97	23.8	11.6	34.7



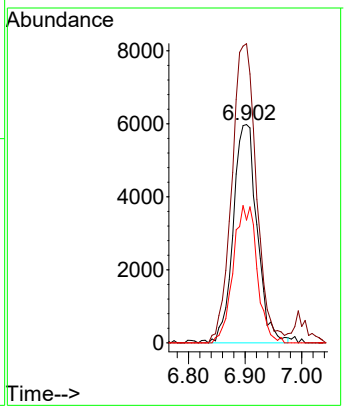


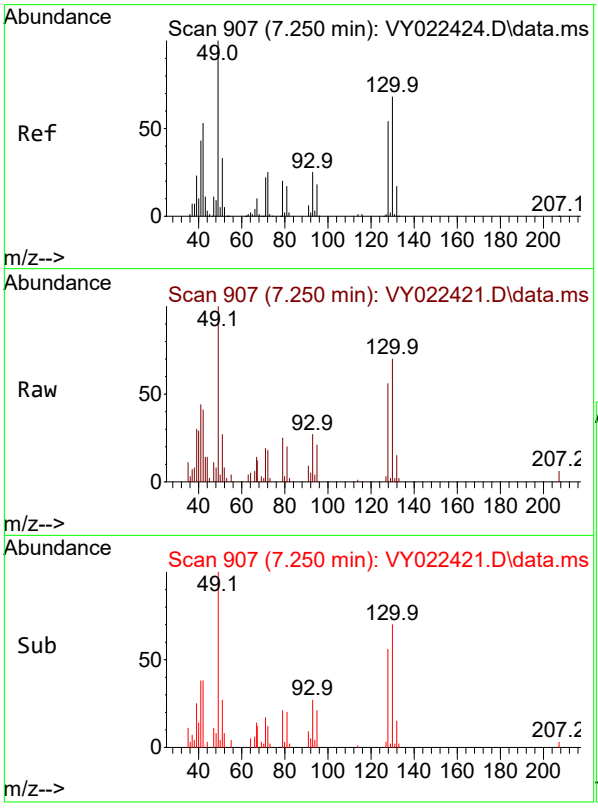
#27
cis-1,2-Dichloroethene
Concen: 4.944 ug/l
RT: 6.902 min Scan# 8
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 96 Resp: 17459

Ion	Ratio	Lower	Upper
96	100		
61	141.7	0.0	292.0
98	63.1	0.0	131.0

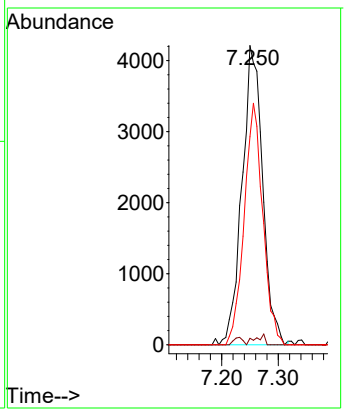


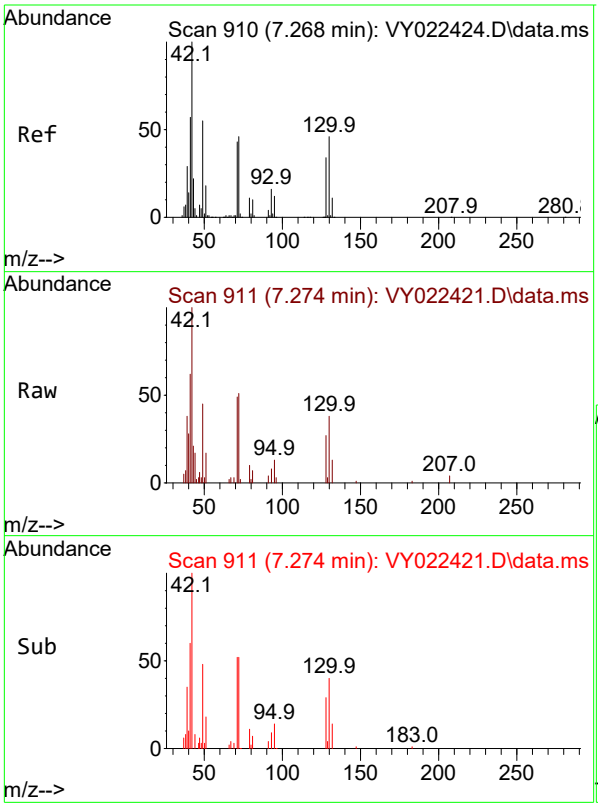


#28
Bromochloromethane
Concen: 4.657 ug/l
RT: 7.250 min Scan# 907
Delta R.T. 0.000 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 49 Resp: 10658

Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.0
130	72.8	56.9	85.3



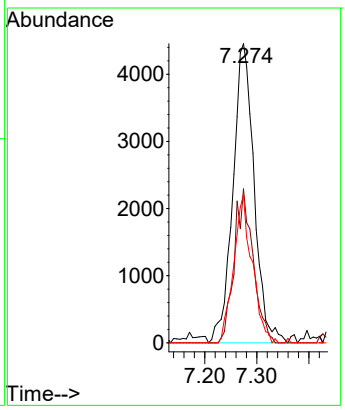


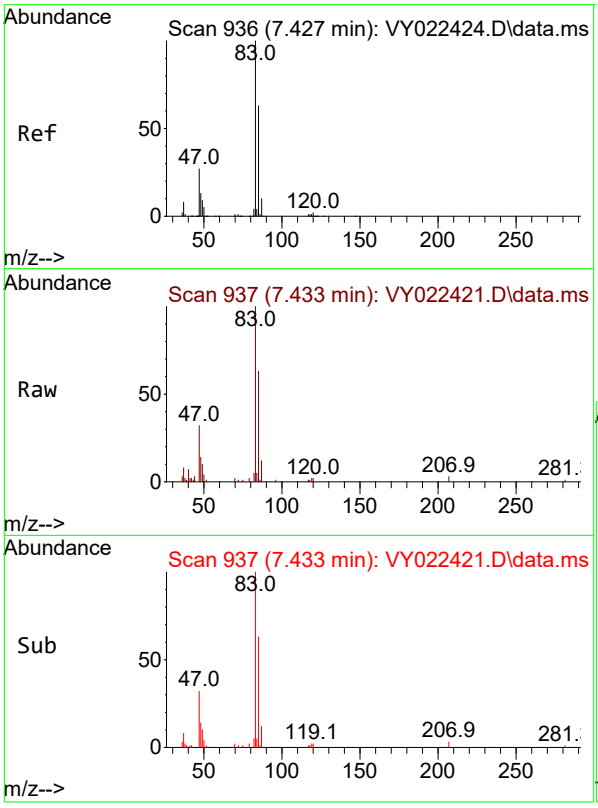
#29
Tetrahydrofuran
Concen: 24.613 ug/l
RT: 7.274 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 42 Resp: 12618

Ion	Ratio	Lower	Upper
42	100		
72	45.6	37.7	56.5
71	43.1	34.7	52.1

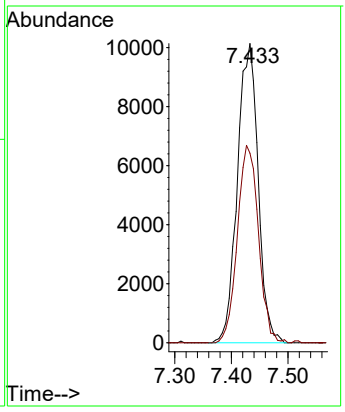


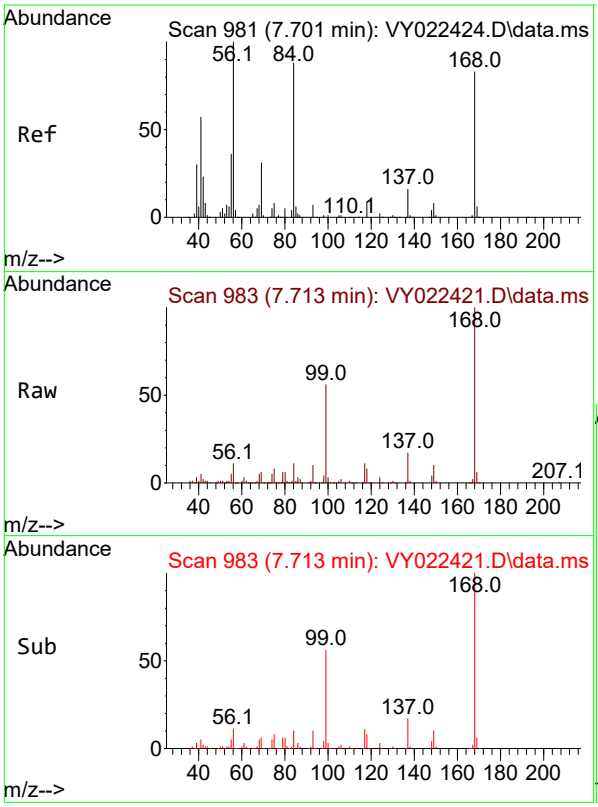


#30
Chloroform
Concen: 4.771 ug/l
RT: 7.433 min Scan# 937
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 83 Resp: 25766

Ion	Ratio	Lower	Upper
83	100		
85	63.4	50.1	75.1



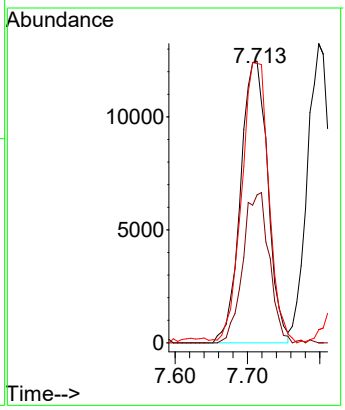


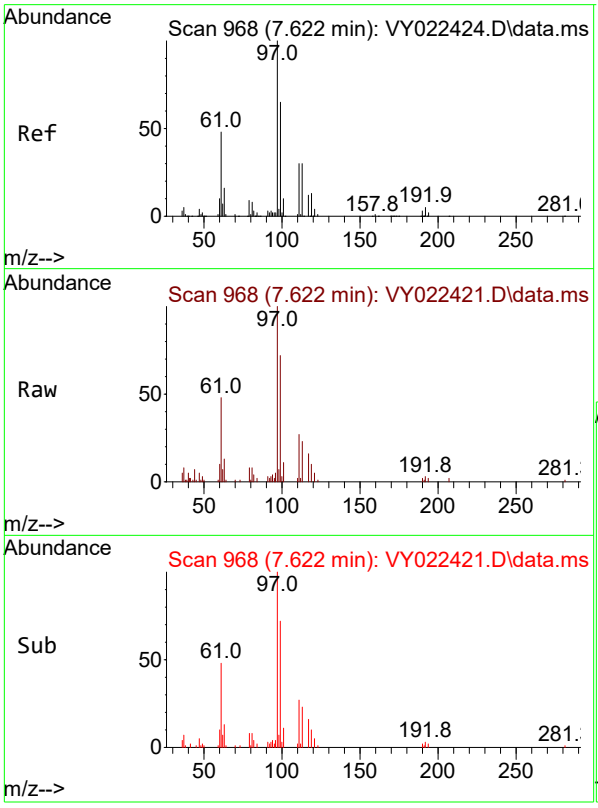
#31
Cyclohexane
Concen: 6.024 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.012 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 56 Resp: 32546

Ion	Ratio	Lower	Upper
56	100		
69	52.5	24.6	36.8#
84	98.3	70.4	105.6

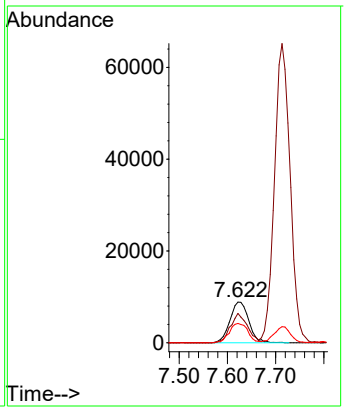


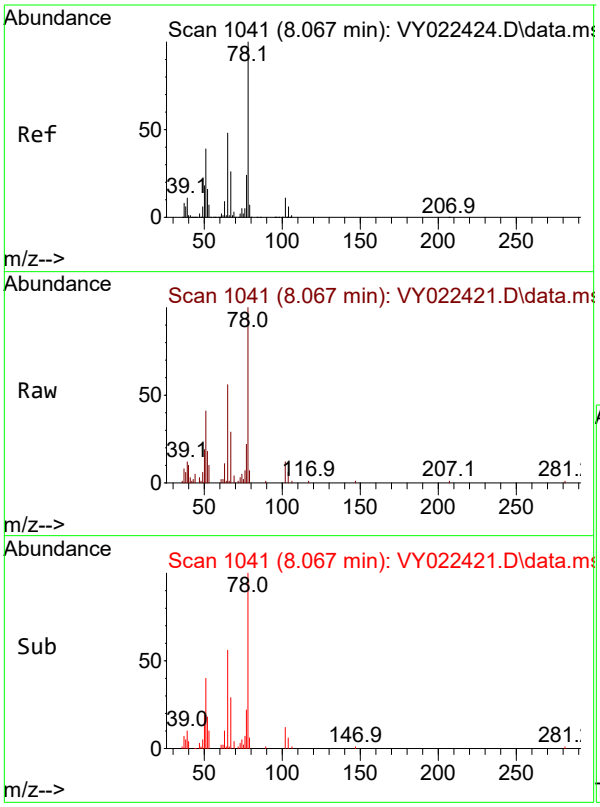


#32
1,1,1-Trichloroethane
Concen: 4.896 ug/l
RT: 7.622 min Scan# 968
Delta R.T. 0.000 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 97 Resp: 23999

Ion	Ratio	Lower	Upper
97	100		
99	65.1	51.3	76.9
61	47.1	37.3	55.9



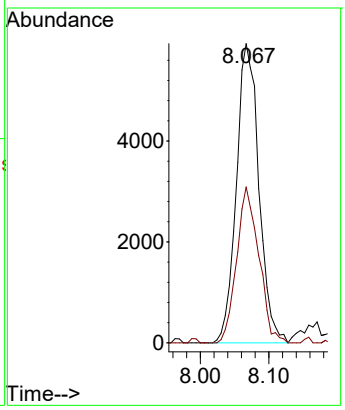


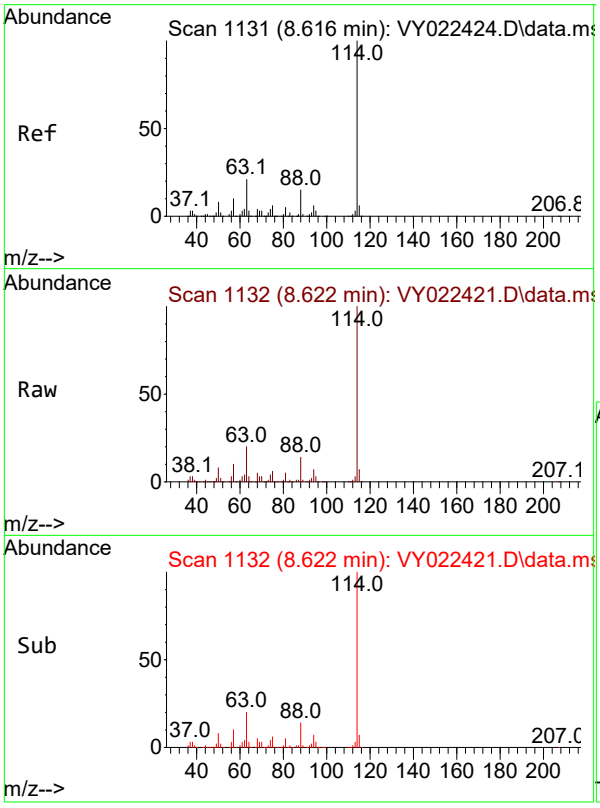
#33
1,2-Dichloroethane-d4
Concen: 4.811 ug/l
RT: 8.067 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 65 Resp: 13513

Ion	Ratio	Lower	Upper
65	100		
67	51.3	0.0	104.4

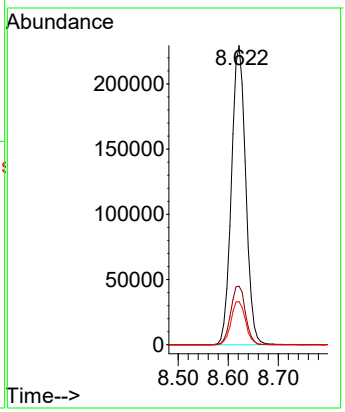


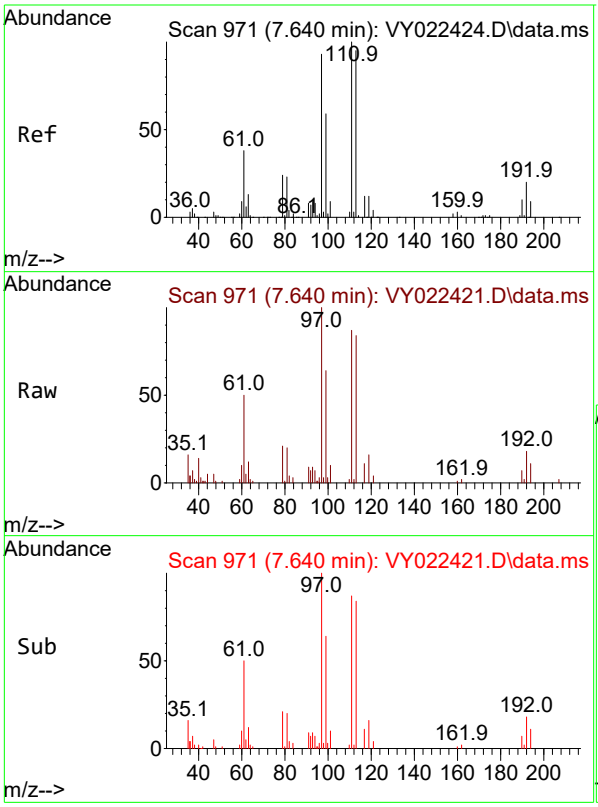


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.622 min Scan# 1132
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion:114 Resp: 453411

Ion	Ratio	Lower	Upper
114	100		
63	19.6	0.0	42.6
88	14.4	0.0	29.4



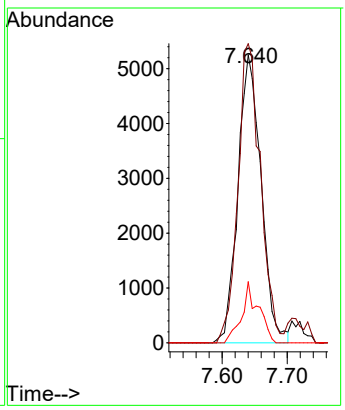


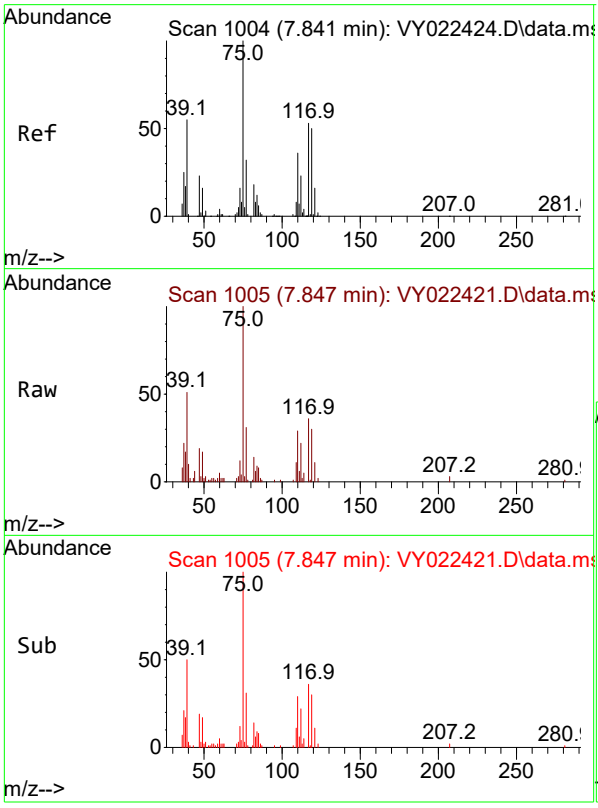
#35
Dibromofluoromethane
Concen: 4.898 ug/l
RT: 7.640 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion:113 Resp: 13007

Ion	Ratio	Lower	Upper
113	100		
111	101.2	82.4	123.6
192	15.3	15.2	22.8

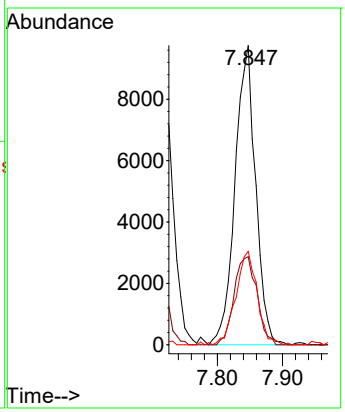


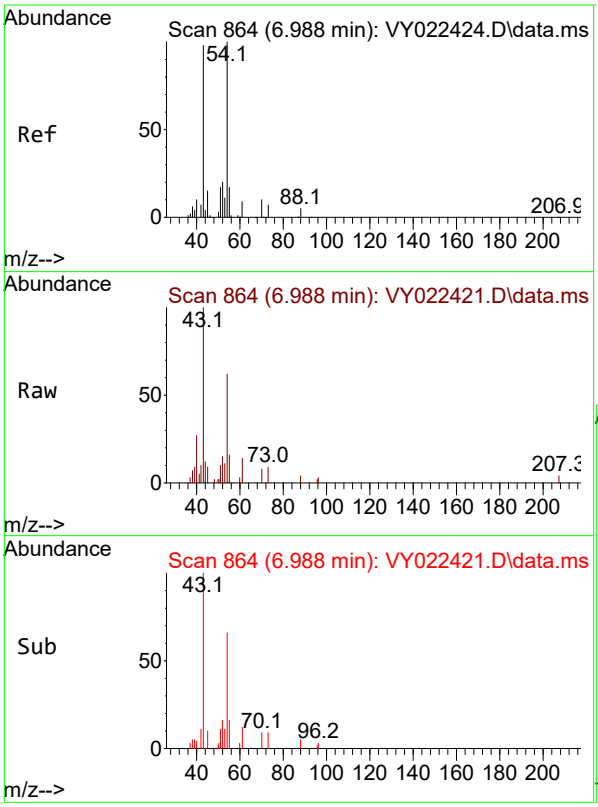


#36
1,1-Dichloropropene
Concen: 5.079 ug/l
RT: 7.847 min Scan# 1005
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 75 Resp: 21399

Ion	Ratio	Lower	Upper
75	100		
110	32.6	17.1	51.2
77	32.5	25.1	37.7



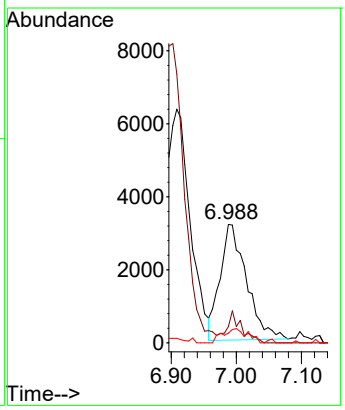


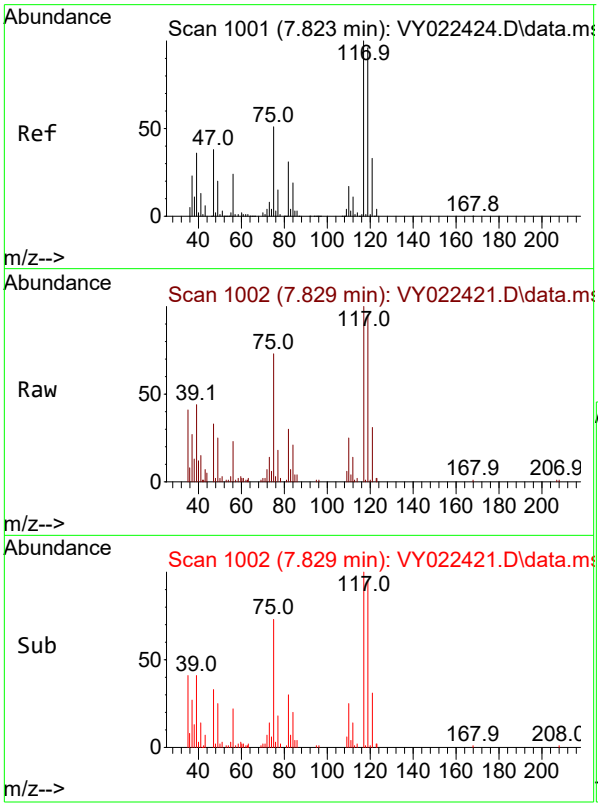
#37
Ethyl Acetate
Concen: 5.000 ug/l
RT: 6.988 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 8953

Ion	Ratio	Lower	Upper
43	100		
61	15.4	11.7	17.5
70	11.4	7.8	11.6

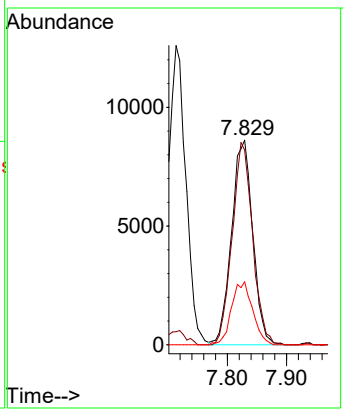


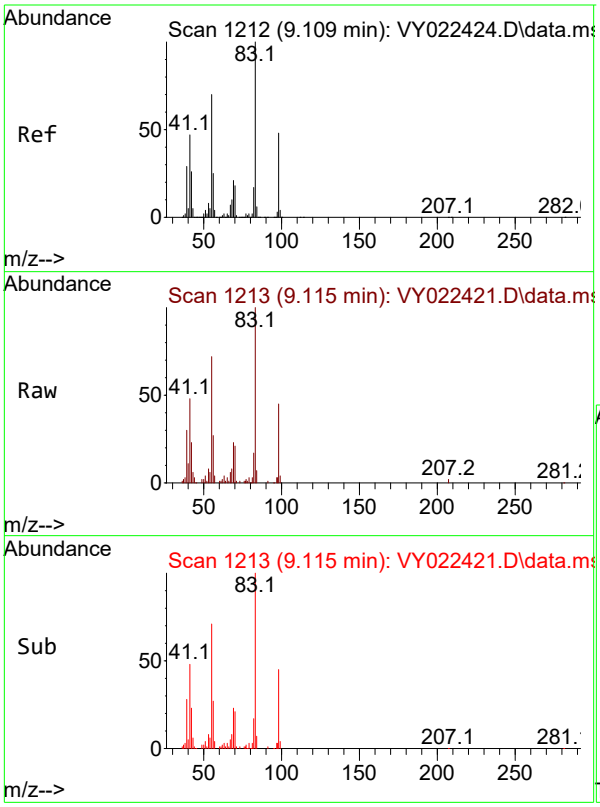


#38
Carbon Tetrachloride
Concen: 4.888 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion:117 Resp: 21453

Ion	Ratio	Lower	Upper
117	100		
119	95.2	76.3	114.5
121	30.8	26.1	39.1



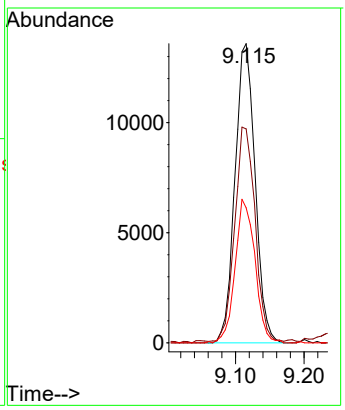


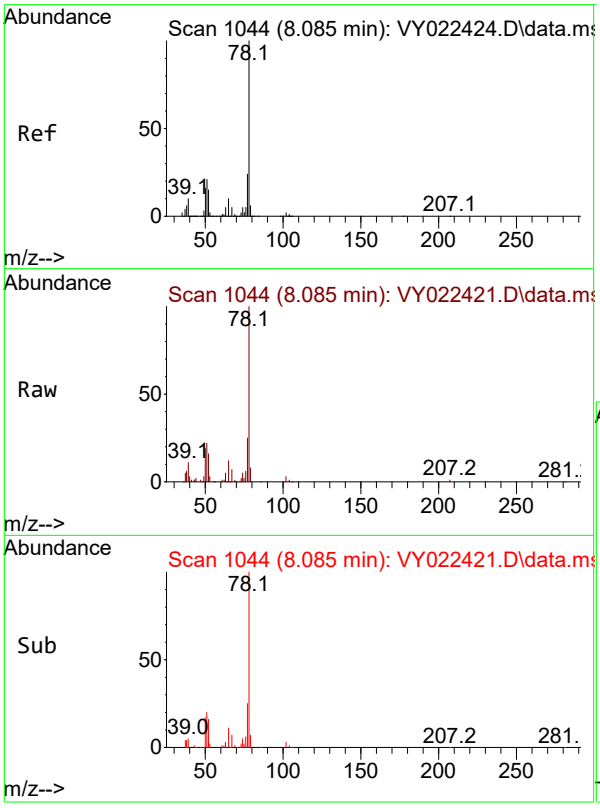
#39
Methylcyclohexane
Concen: 4.948 ug/l
RT: 9.115 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 83 Resp: 27716

Ion	Ratio	Lower	Upper
83	100		
55	71.0	56.2	84.2
98	45.1	38.4	57.6

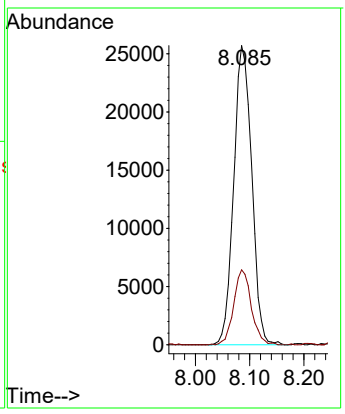


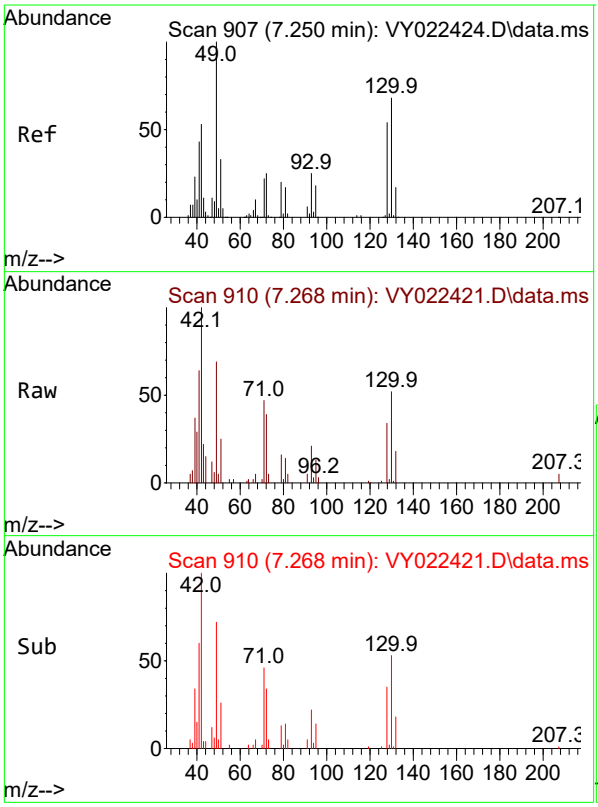


#40
Benzene
Concen: 4.732 ug/l
RT: 8.085 min Scan# 1044
Delta R.T. 0.000 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 78 Resp: 59324

Ion	Ratio	Lower	Upper
78	100		
77	25.1	19.4	29.2



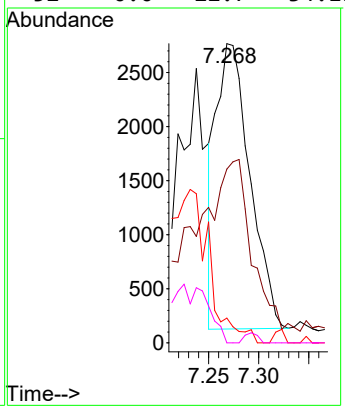


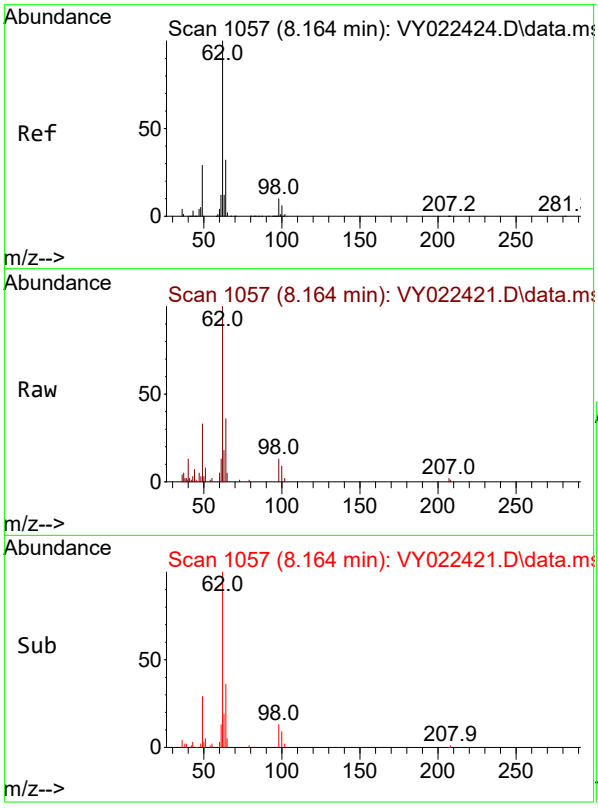
#41
Methacrylonitrile
Concen: 2.635 ug/l
RT: 7.268 min Scan# 9
Delta R.T. 0.018 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 41 Resp: 6209

Ion	Ratio	Lower	Upper
41	100		
39	0.0	40.4	60.6#
67	0.0	53.0	79.4#
52	0.0	22.7	34.1#

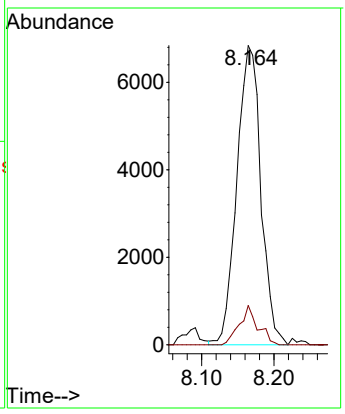


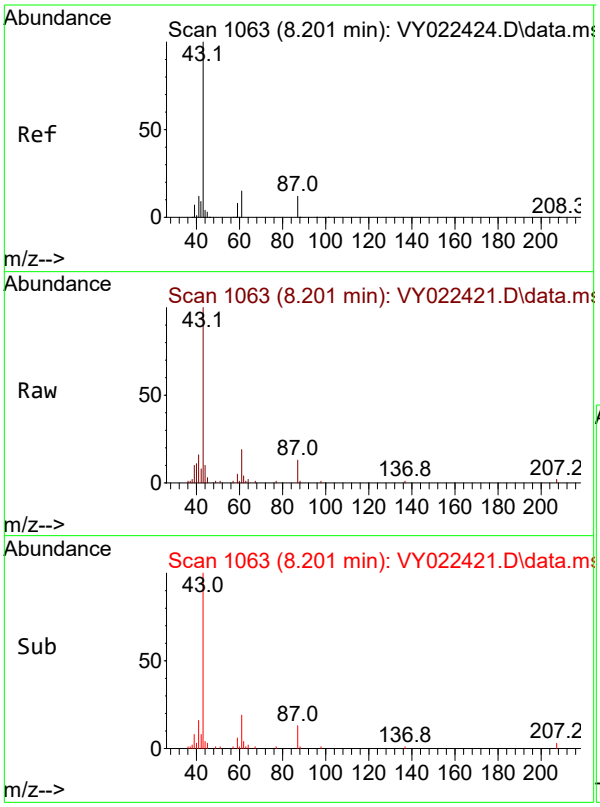


#42
1,2-Dichloroethane
Concen: 4.764 ug/l
RT: 8.164 min Scan# 1057
Delta R.T. 0.000 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 62 Resp: 15776

Ion	Ratio	Lower	Upper
62	100		
98	10.1	0.0	18.4



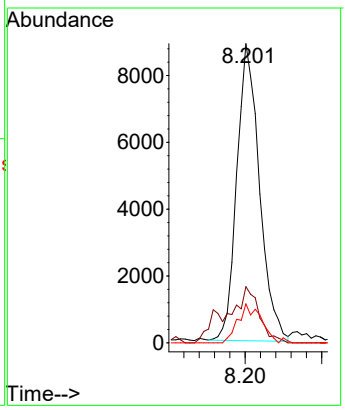


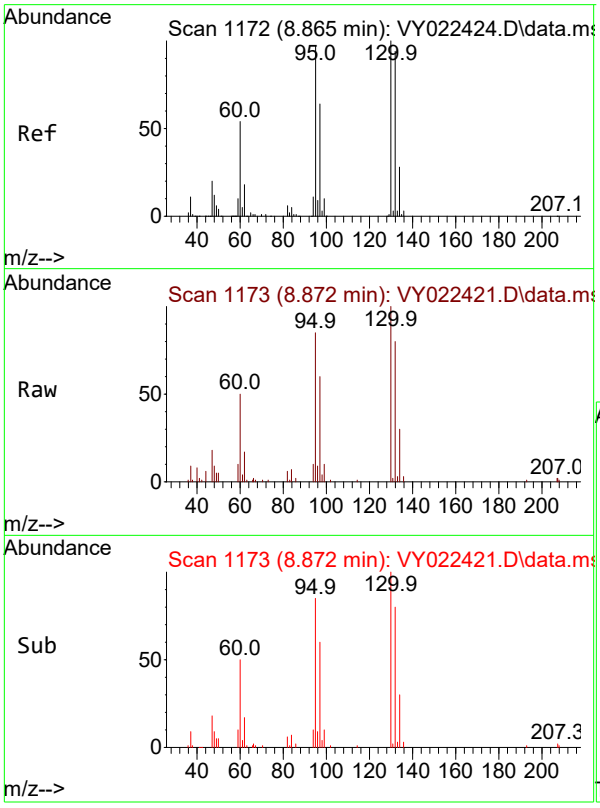
#43
Isopropyl Acetate
Concen: 4.662 ug/l
RT: 8.201 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 18244

Ion	Ratio	Lower	Upper
43	100		
61	20.5	15.4	23.0
87	13.3	10.6	15.8

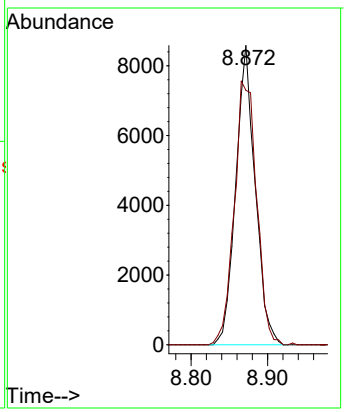


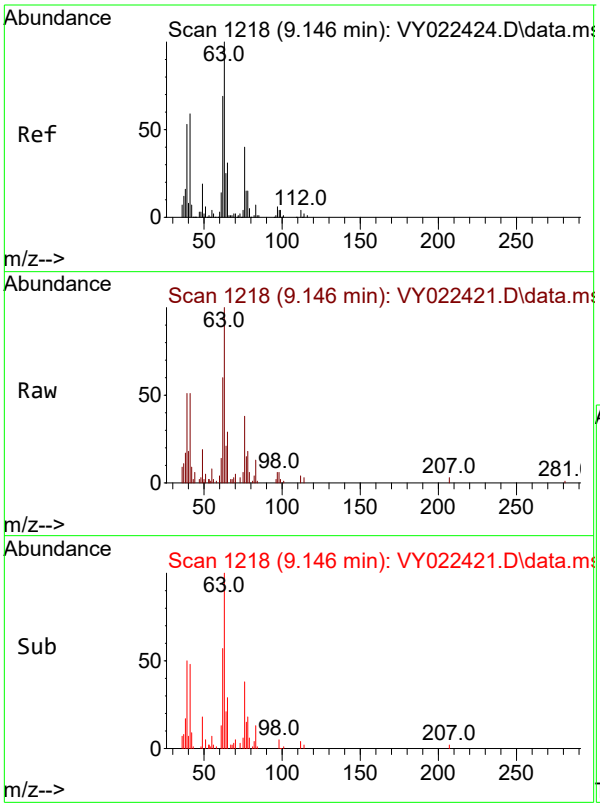


#44
Trichloroethene
Concen: 4.882 ug/l
RT: 8.872 min Scan# 1173
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion:130 Resp: 15132

Ion	Ratio	Lower	Upper
130	100		
95	85.1	0.0	194.8



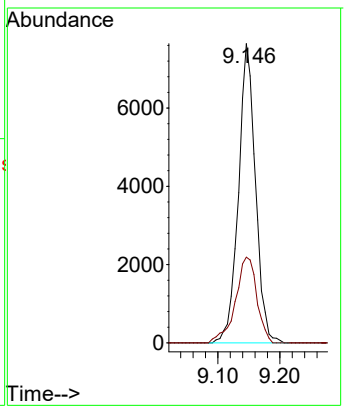


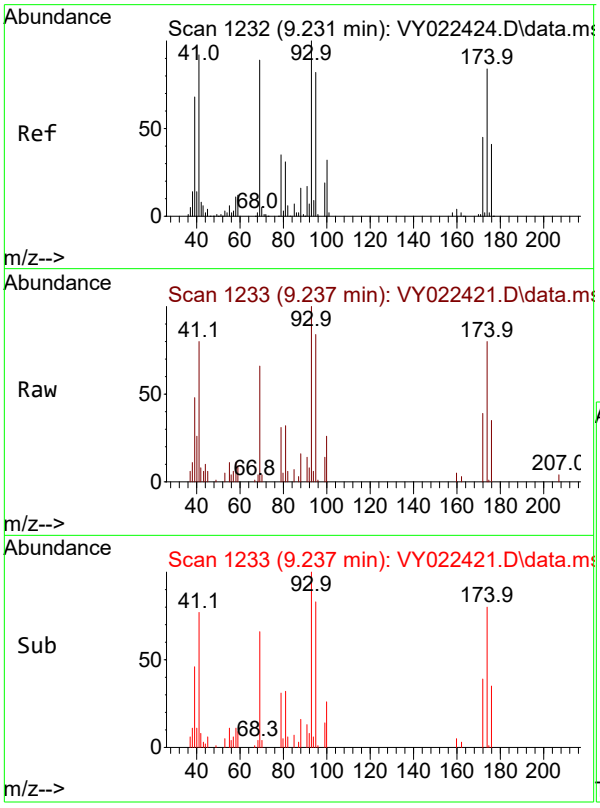
#45
1,2-Dichloropropane
Concen: 4.935 ug/l
RT: 9.146 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 63 Resp: 14536

Ion	Ratio	Lower	Upper
63	100		
65	28.6	25.1	37.7

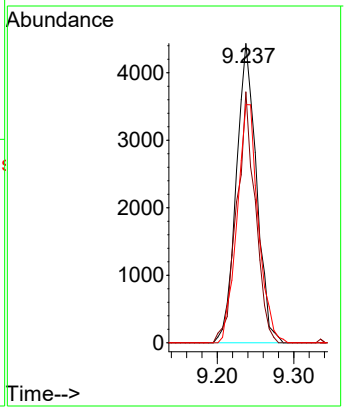


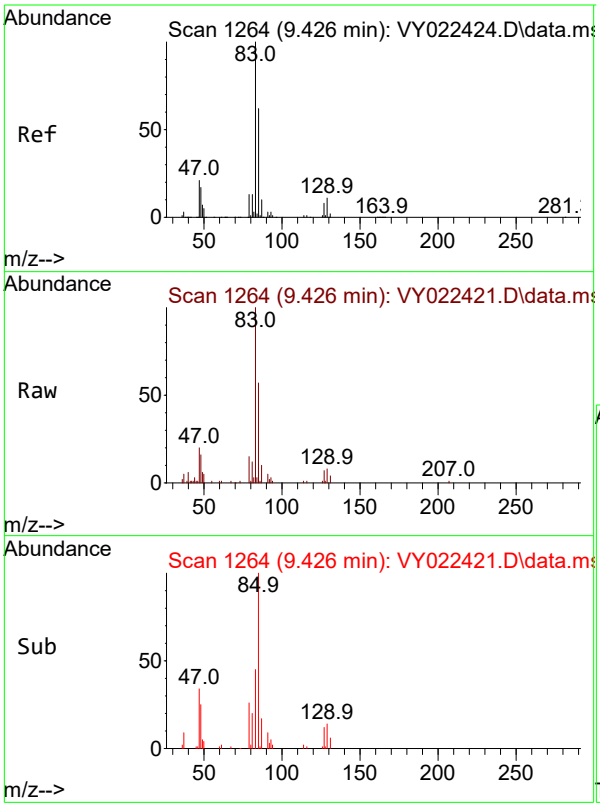


#46
Dibromomethane
Concen: 4.948 ug/l
RT: 9.237 min Scan# 1233
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 93 Resp: 8142

Ion	Ratio	Lower	Upper
93	100		
95	77.0	66.2	99.2
174	83.4	71.1	106.7



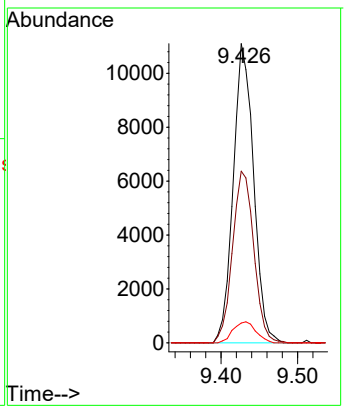


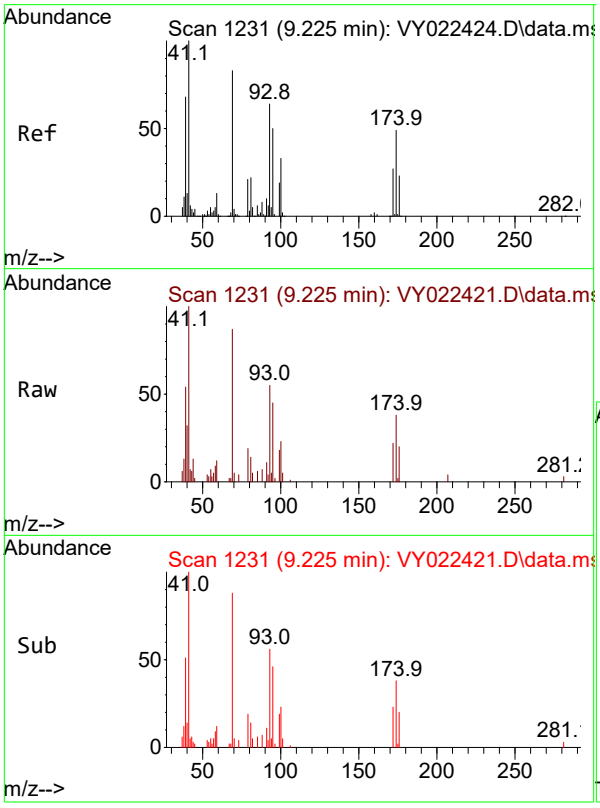
#47
Bromodichloromethane
Concen: 4.839 ug/l
RT: 9.426 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 83 Resp: 20477

Ion	Ratio	Lower	Upper
83	100		
85	57.4	49.8	74.6
127	6.6	6.6	9.8

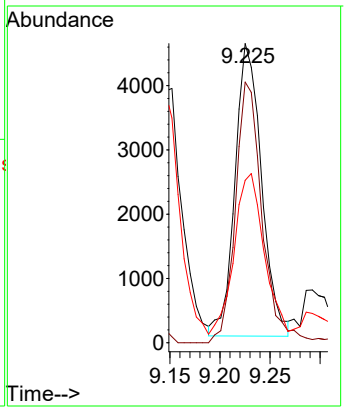


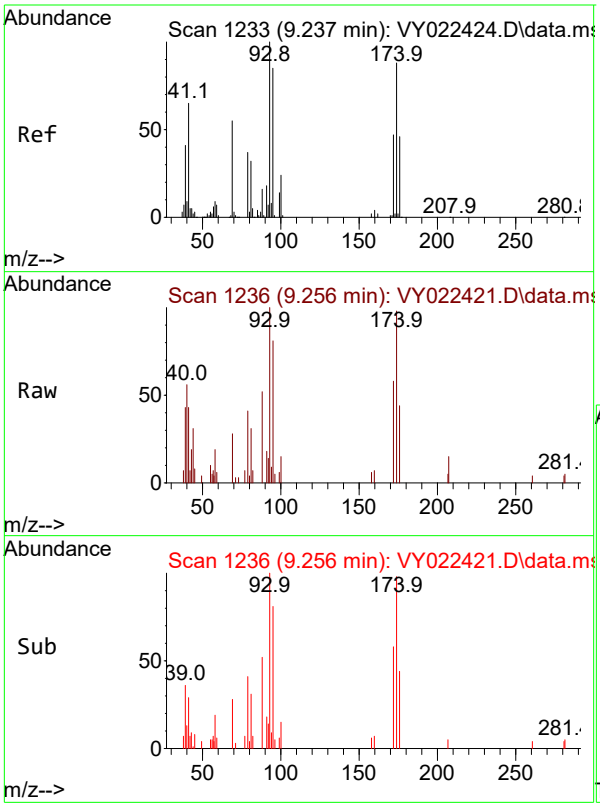


#48
Methyl methacrylate
Concen: 4.619 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.000 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 41 Resp: 8390

Ion	Ratio	Lower	Upper
41	100		
69	89.2	70.3	105.5
39	61.6	55.4	83.0



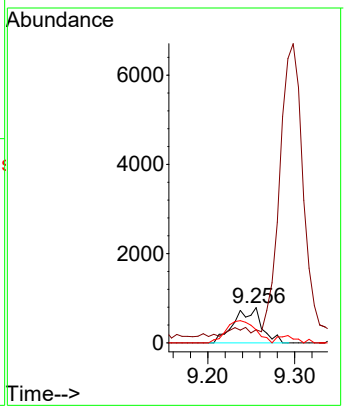


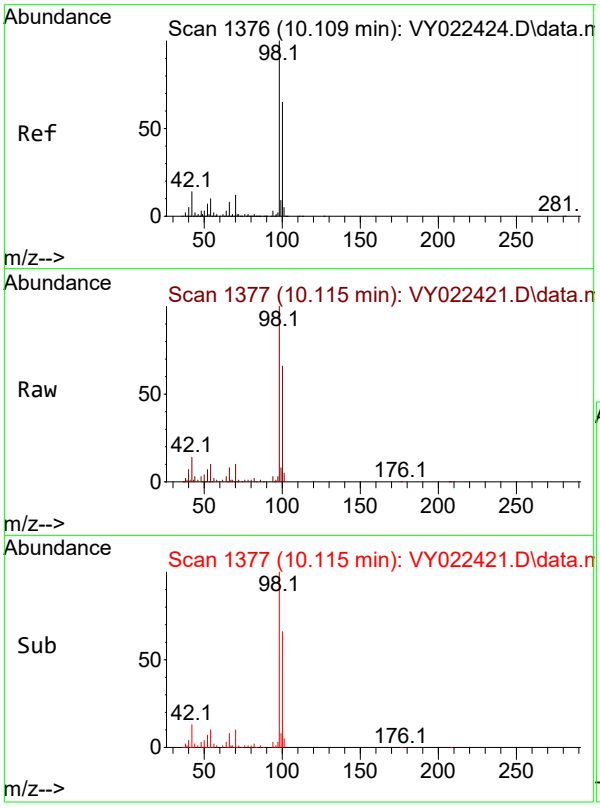
#49
1,4-Dioxane
Concen: 94.135 ug/l
RT: 9.256 min Scan# 1
Delta R.T. 0.018 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 88 Resp: 1711

Ion	Ratio	Lower	Upper
88	100		
43	0.0	26.9	40.3#
58	68.2	55.8	83.6

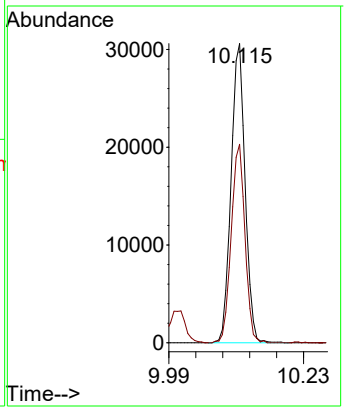


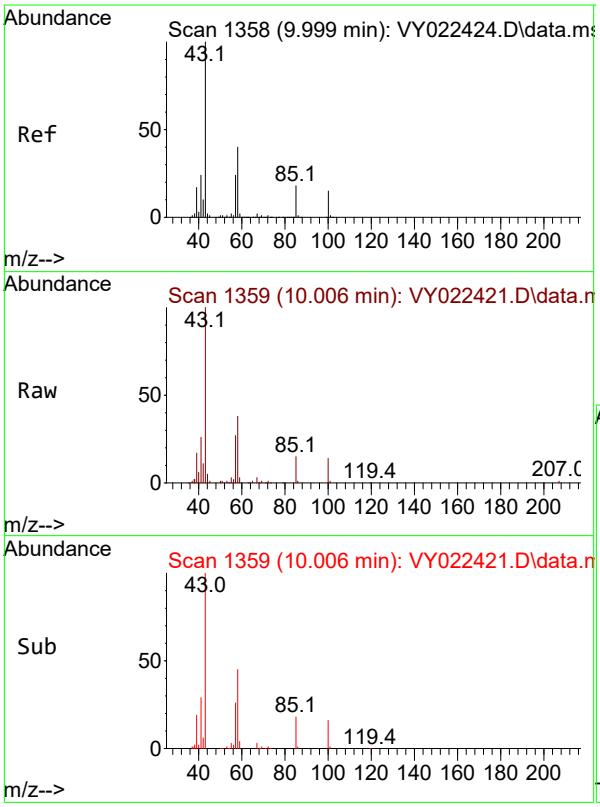


#50
Toluene-d8
Concen: 4.856 ug/l
RT: 10.115 min Scan# 1377
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 98 Resp: 52564

Ion	Ratio	Lower	Upper
98	100		
100	64.9	52.2	78.2



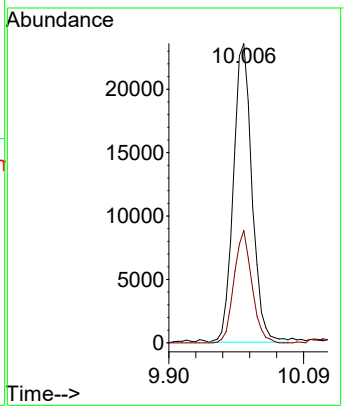


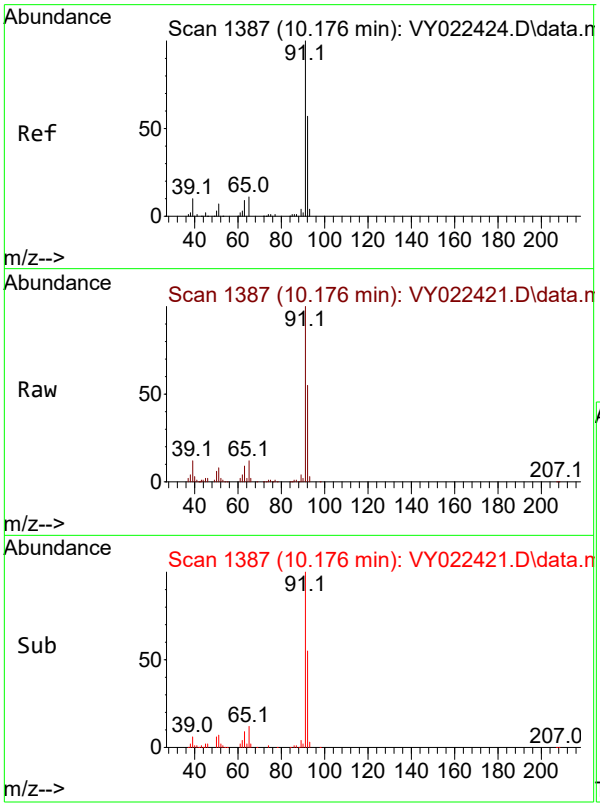
#51
4-Methyl-2-Pentanone
Concen: 21.778 ug/l
RT: 10.006 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 42047

Ion	Ratio	Lower	Upper
43	100		
58	36.1	31.2	46.8

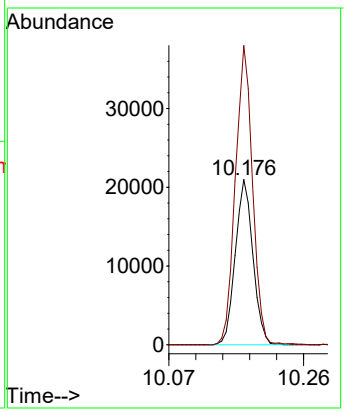


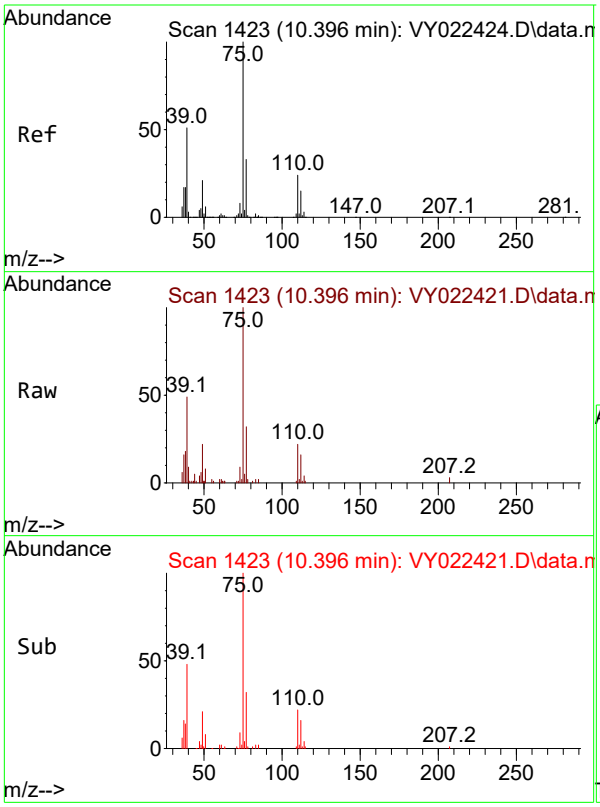


#52
Toluene
Concen: 4.527 ug/l
RT: 10.176 min Scan# 1387
Delta R.T. 0.000 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 92 Resp: 35452

Ion	Ratio	Lower	Upper
92	100		
91	176.7	139.8	209.6



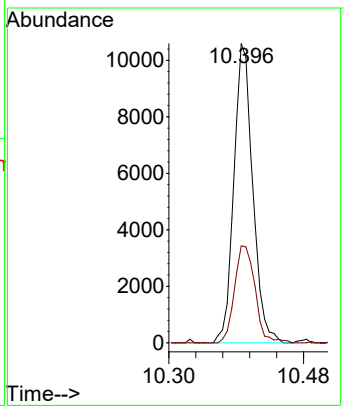


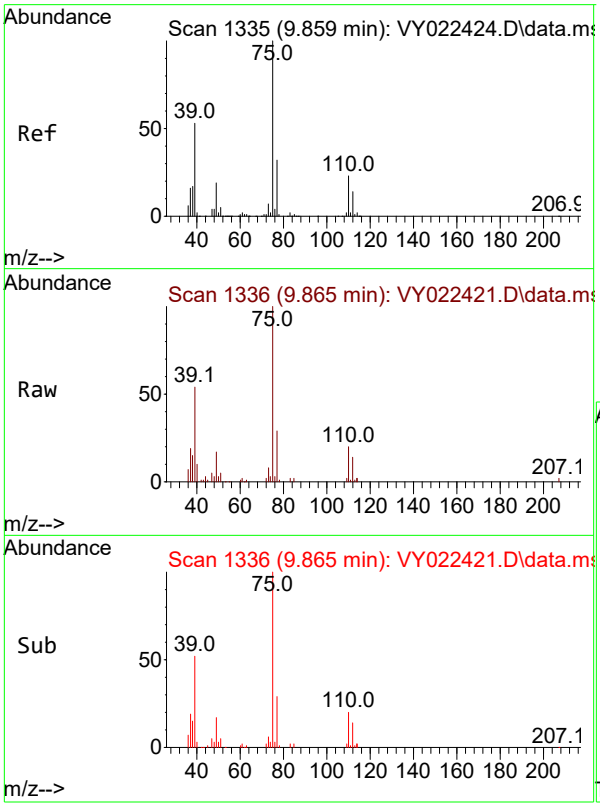
#53
t-1,3-Dichloropropene
Concen: 4.596 ug/l
RT: 10.396 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 75 Resp: 18117

Ion	Ratio	Lower	Upper
75	100		
77	32.4	26.2	39.2

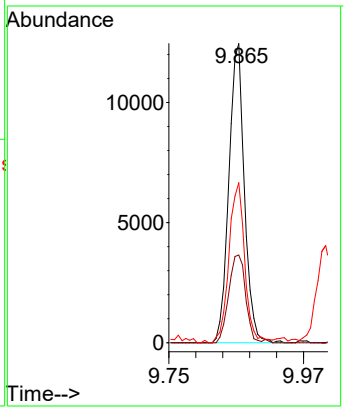


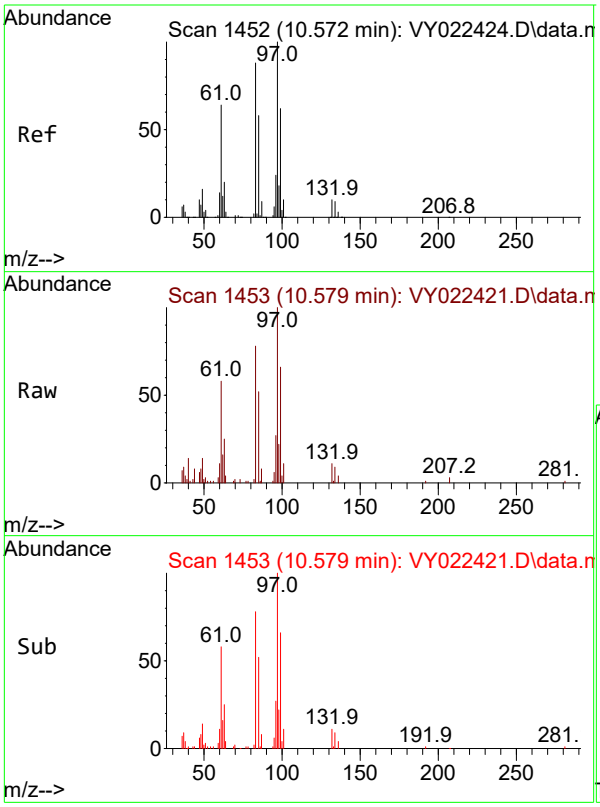


#54
cis-1,3-Dichloropropene
Concen: 4.671 ug/l
RT: 9.865 min Scan# 1336
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 75 Resp: 21634

Ion	Ratio	Lower	Upper
75	100		
77	29.3	25.4	38.2
39	53.5	42.5	63.7



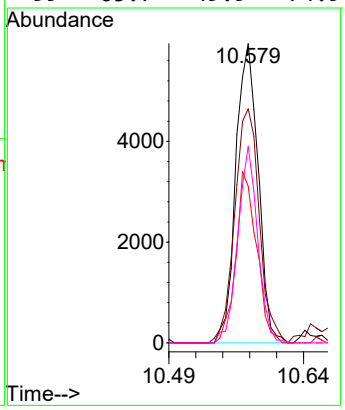


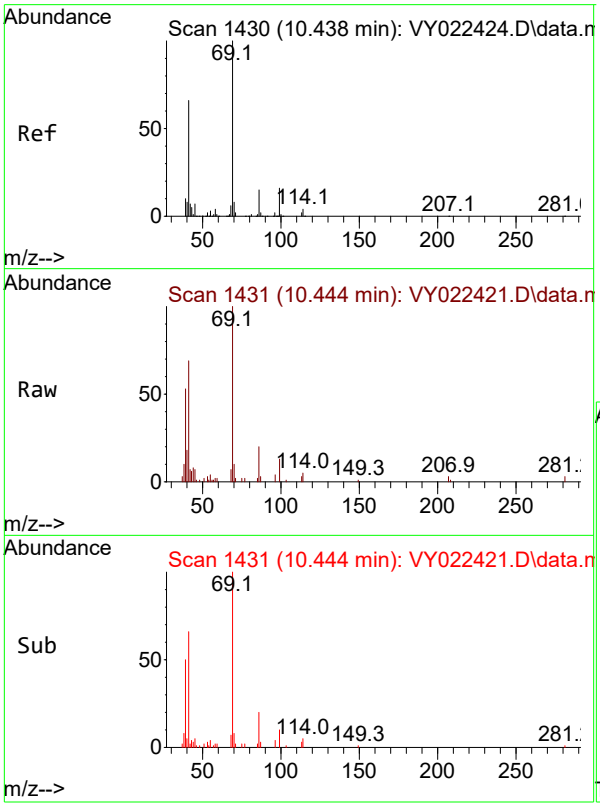
#55
1,1,2-Trichloroethane
Concen: 4.765 ug/l
RT: 10.579 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 97 Resp: 9913

Ion	Ratio	Lower	Upper
97	100		
83	78.2	70.2	105.4
85	52.3	46.1	69.1
99	65.7	49.9	74.9

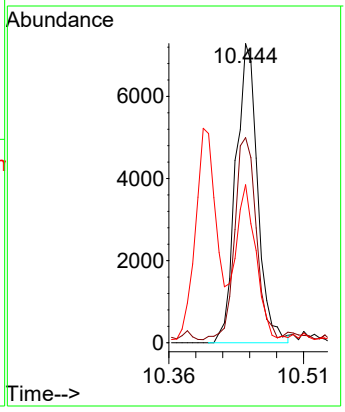


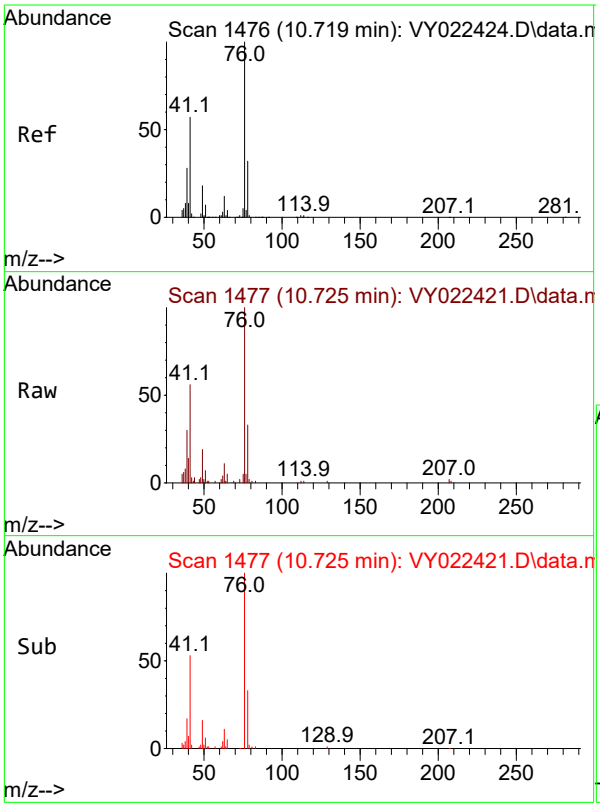


#56
Ethyl methacrylate
Concen: 4.258 ug/l
RT: 10.444 min Scan# 1431
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 69 Resp: 12714

Ion	Ratio	Lower	Upper
69	100		
41	68.6	51.2	76.8
39	48.3	35.2	52.8



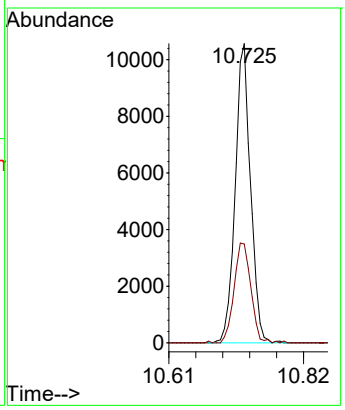


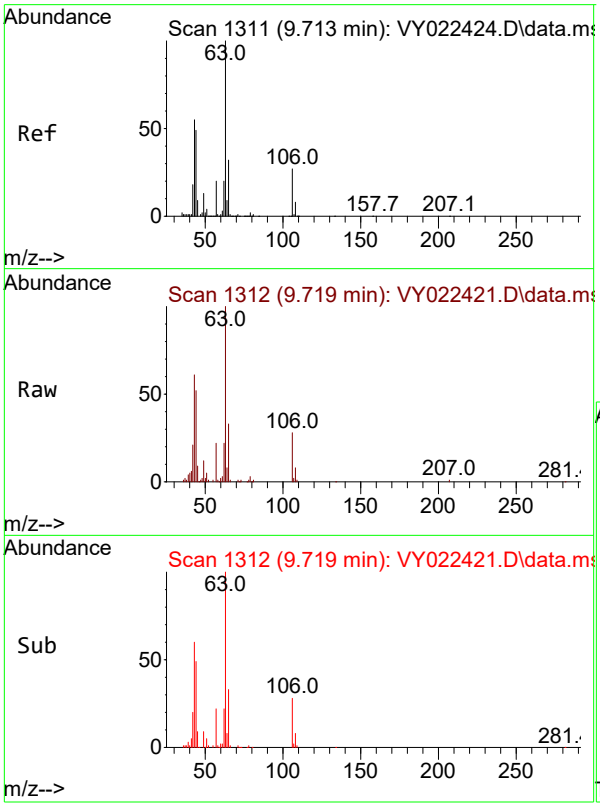
#57
1,3-Dichloropropane
Concen: 4.689 ug/l
RT: 10.725 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 76 Resp: 17193

Ion	Ratio	Lower	Upper
76	100		
78	36.6	25.8	38.8

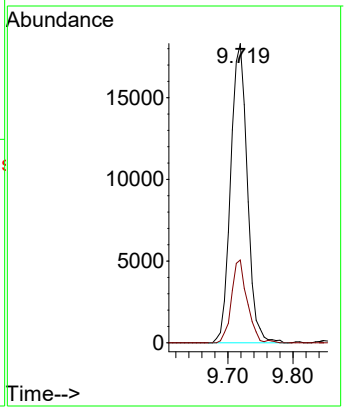


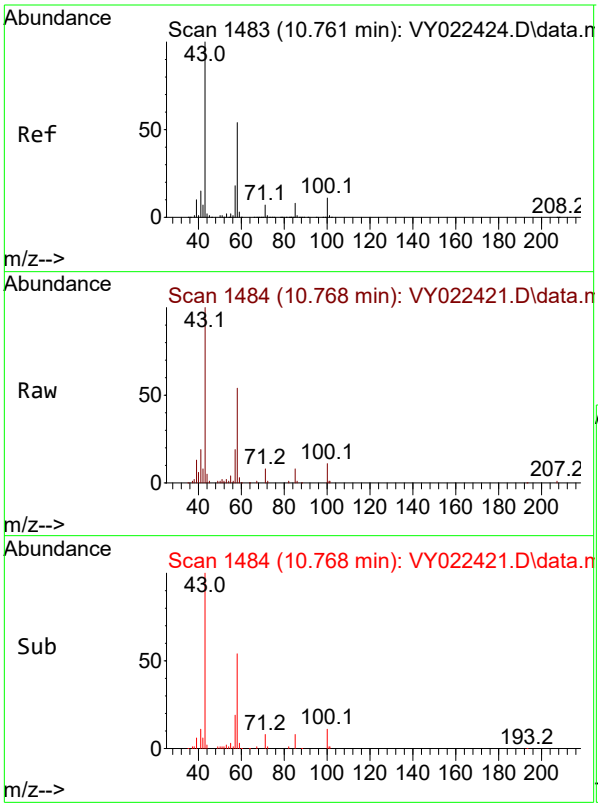


#58
2-Chloroethyl Vinyl ether
Concen: 21.845 ug/l
RT: 9.719 min Scan# 1312
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 63 Resp: 32506

Ion	Ratio	Lower	Upper
63	100		
106	25.7	22.2	33.2



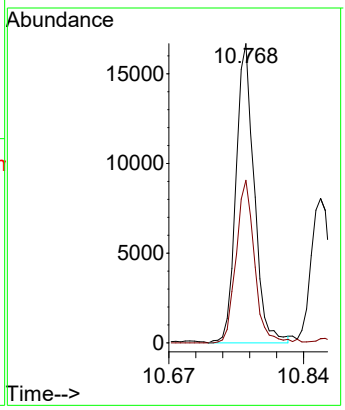


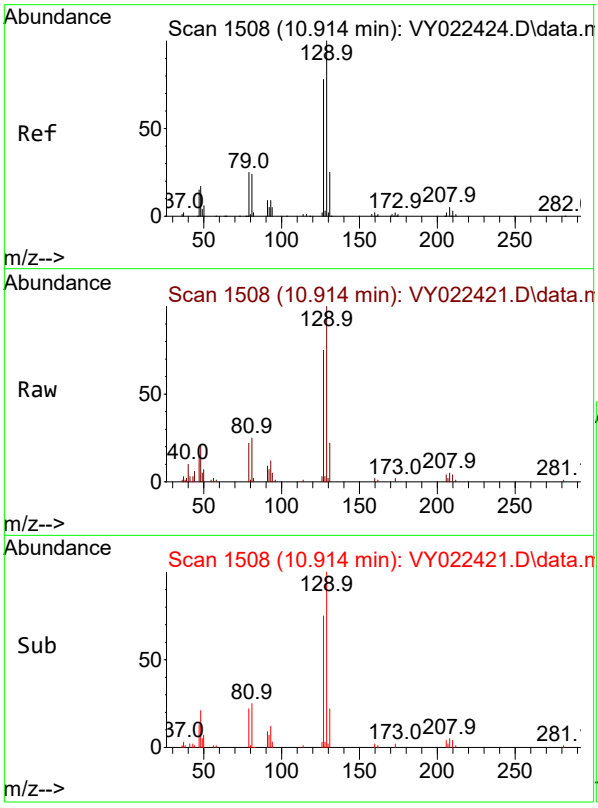
#59
2-Hexanone
Concen: 21.739 ug/l
RT: 10.768 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 27506

Ion	Ratio	Lower	Upper
43	100		
58	55.0	27.1	81.2

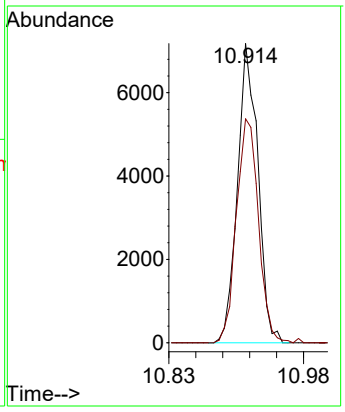


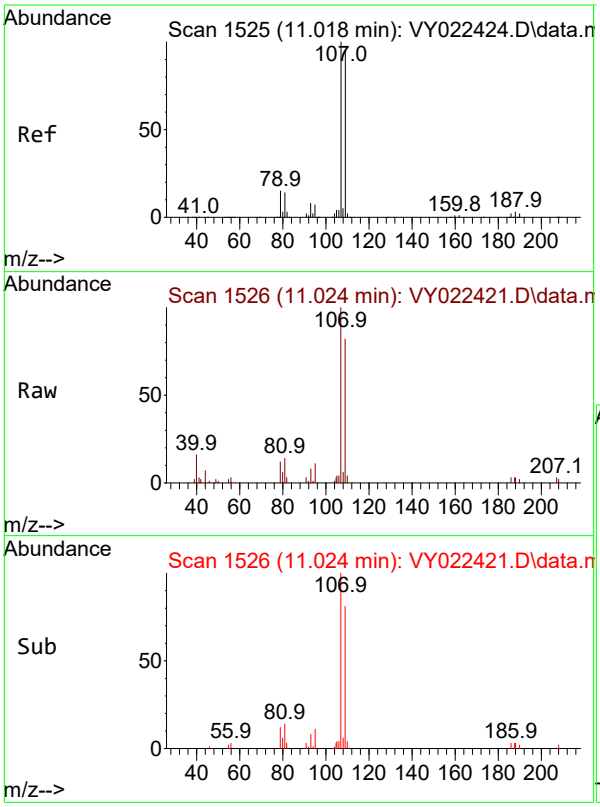


#60
Dibromochloromethane
Concen: 4.405 ug/l
RT: 10.914 min Scan# 1508
Delta R.T. 0.000 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion:129 Resp: 11708

Ion	Ratio	Lower	Upper
129	100		
127	81.0	38.3	114.8



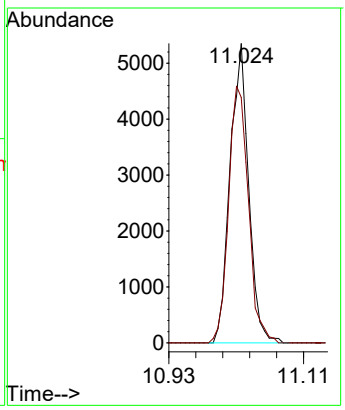


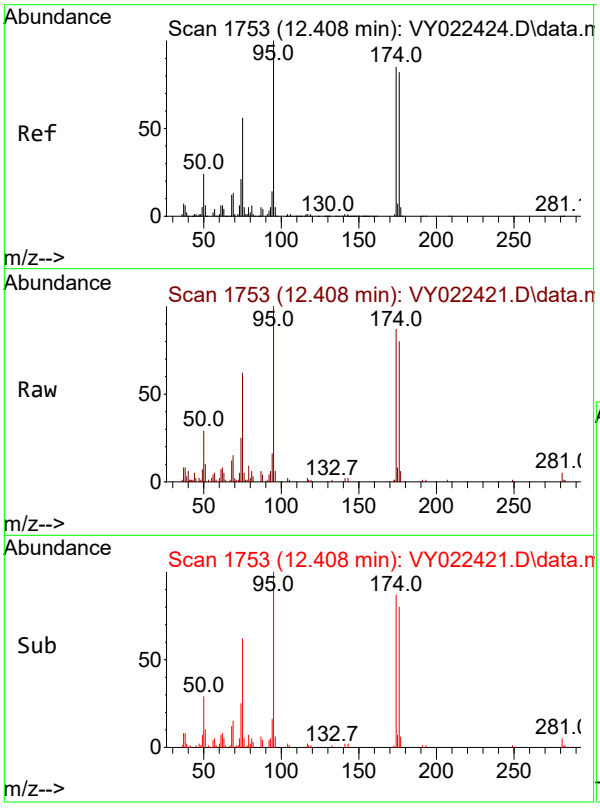
#61
1,2-Dibromoethane
Concen: 4.739 ug/l
RT: 11.024 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion:107 Resp: 9019

Ion	Ratio	Lower	Upper
107	100		
109	91.5	74.0	111.0

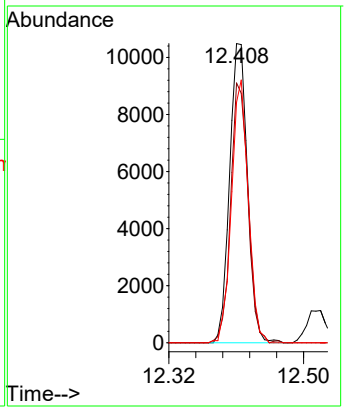


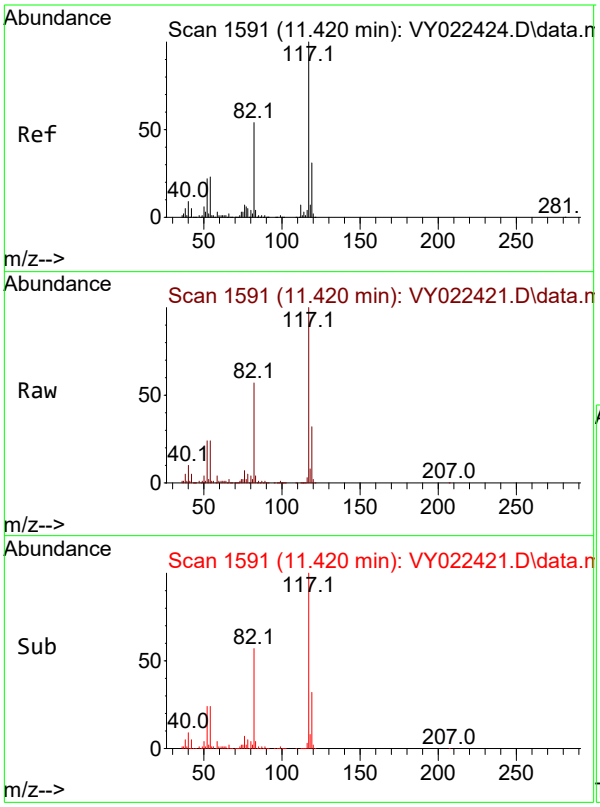


#62
4-Bromofluorobenzene
Concen: 5.226 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 95 Resp: 17111

Ion	Ratio	Lower	Upper
95	100		
174	83.1	0.0	171.6
176	82.2	0.0	164.6



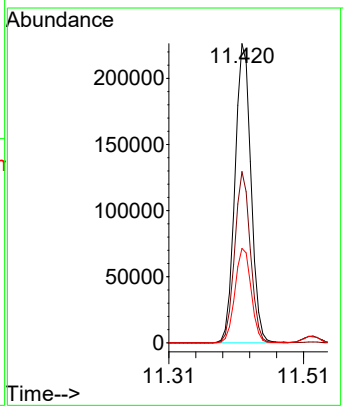


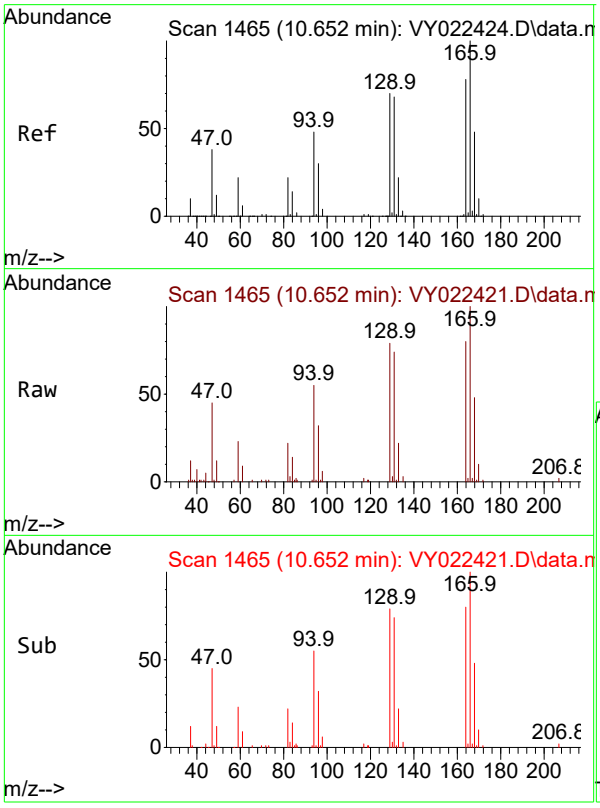
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion:117 Resp: 366267

Ion	Ratio	Lower	Upper
117	100		
82	57.2	43.3	64.9
119	31.6	24.5	36.7

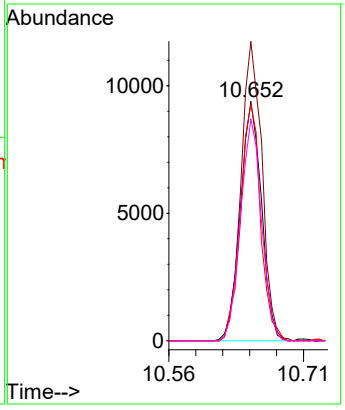


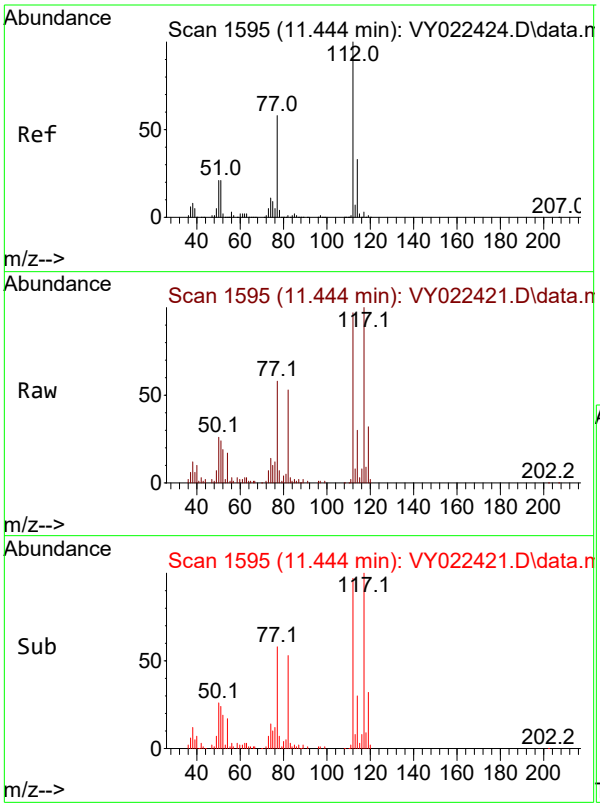


#64
Tetrachloroethene
Concen: 5.090 ug/l
RT: 10.652 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion:164 Resp: 15876

Ion	Ratio	Lower	Upper
164	100		
166	125.0	102.0	153.0
129	98.8	71.3	106.9
131	92.7	69.4	104.0



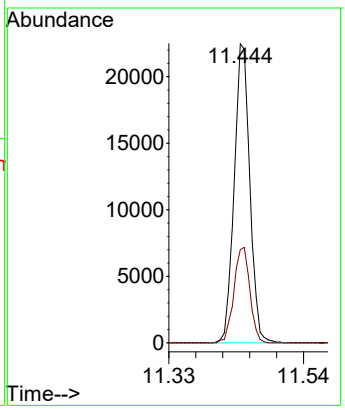


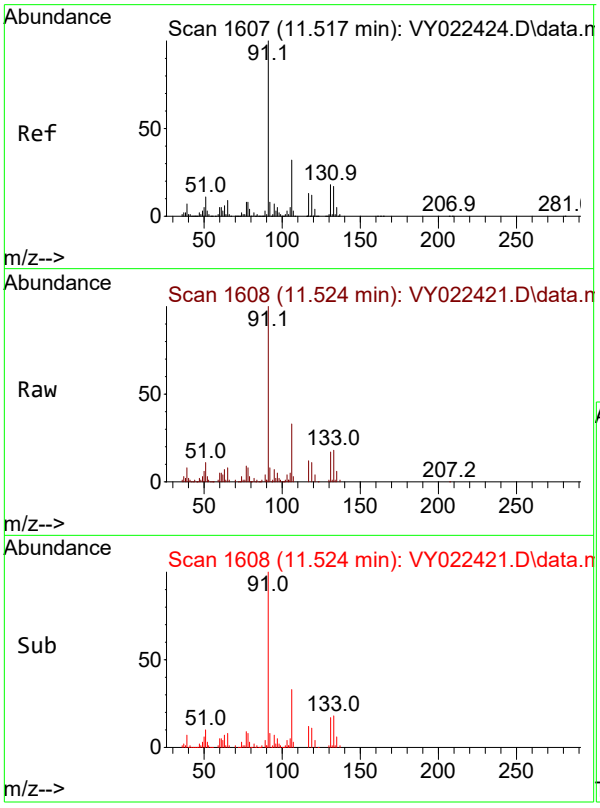
#65
Chlorobenzene
Concen: 4.785 ug/l
RT: 11.444 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion:112 Resp: 37368

Ion	Ratio	Lower	Upper
112	100		
114	31.2	26.1	39.1

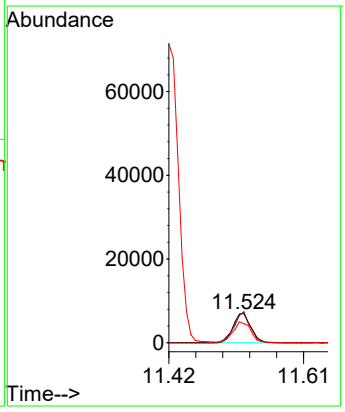


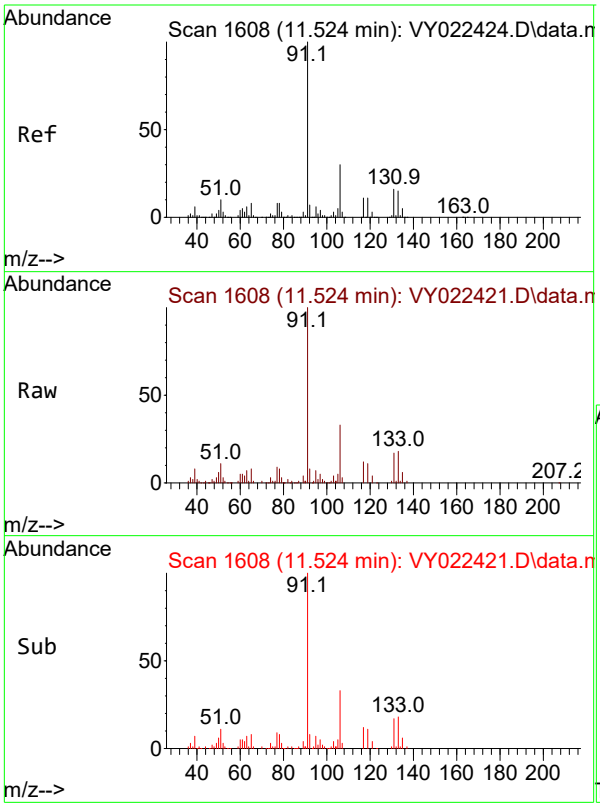


#66
1,1,1,2-Tetrachloroethane
Concen: 4.508 ug/l
RT: 11.524 min Scan# 1608
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion:131 Resp: 11929

Ion	Ratio	Lower	Upper
131	100		
133	96.1	46.6	139.8
119	72.1	33.3	99.8



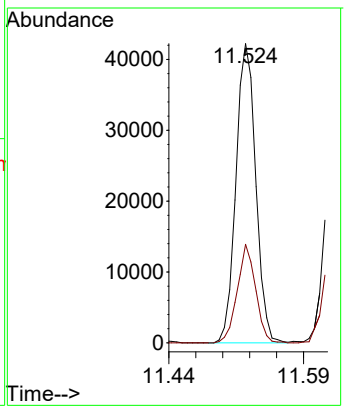


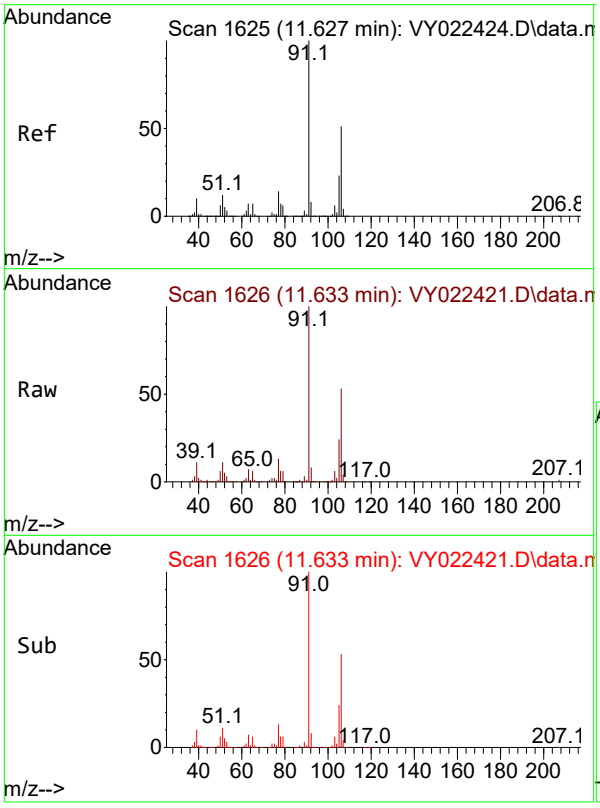
#67
Ethyl Benzene
Concen: 4.603 ug/l
RT: 11.524 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 91 Resp: 66757

Ion	Ratio	Lower	Upper
91	100		
106	32.9	24.4	36.6

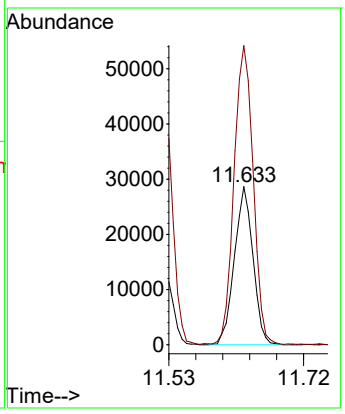


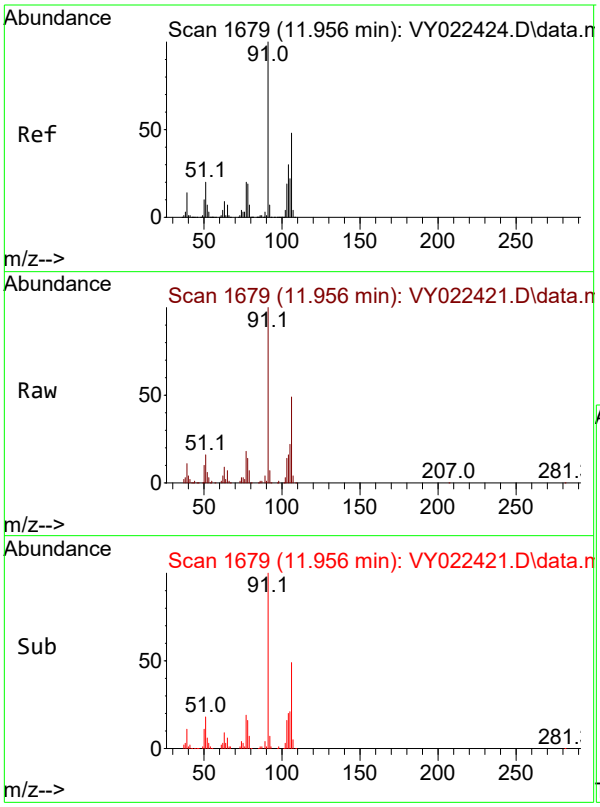


#68
m/p-Xylenes
Concen: 9.296 ug/l
RT: 11.633 min Scan# 1626
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion:106 Resp: 51109

Ion	Ratio	Lower	Upper
106	100		
91	194.5	159.8	239.8



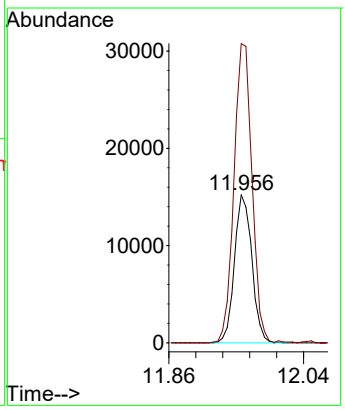


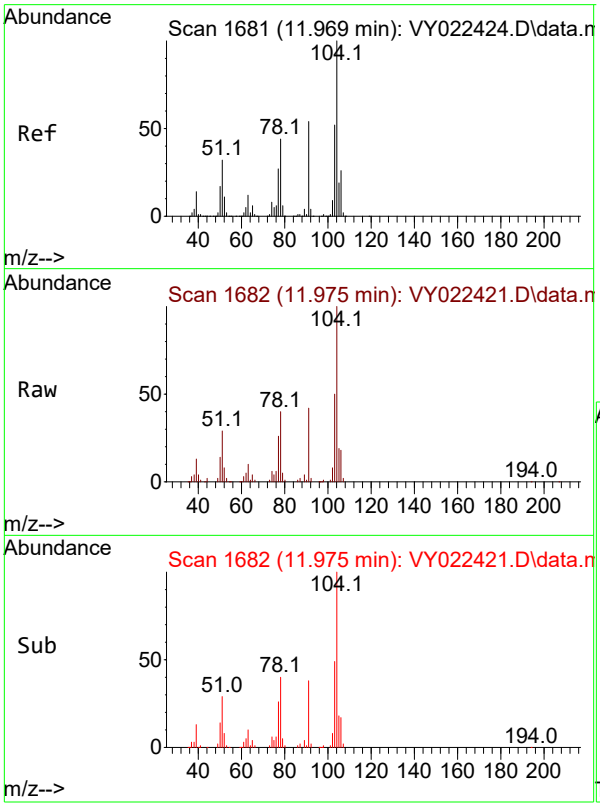
#69
o-Xylene
Concen: 4.633 ug/l
RT: 11.956 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion:106 Resp: 23941

Ion	Ratio	Lower	Upper
106	100		
91	209.5	106.3	318.9

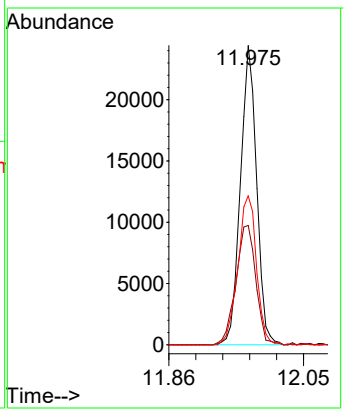


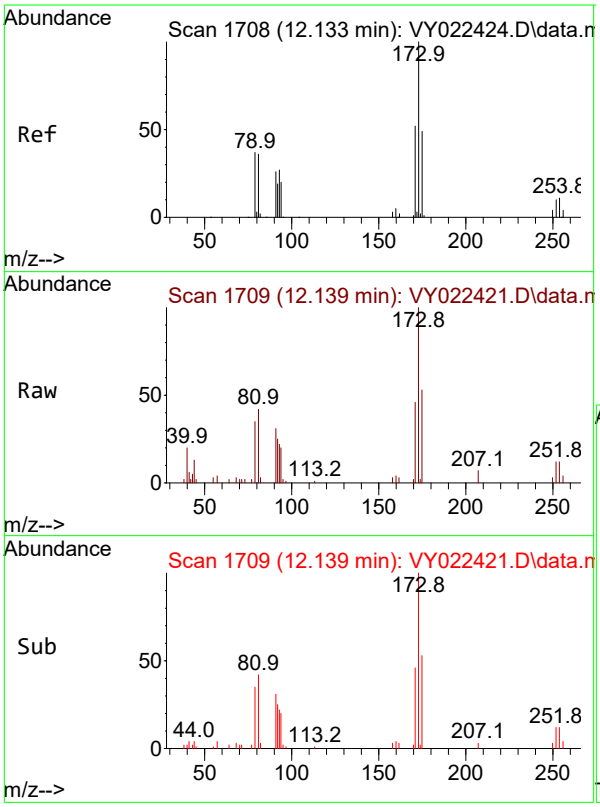


#70
Styrene
Concen: 4.414 ug/l
RT: 11.975 min Scan# 1682
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion:104 Resp: 37982

Ion	Ratio	Lower	Upper
104	100		
78	48.9	38.8	58.2
103	57.0	43.4	65.2



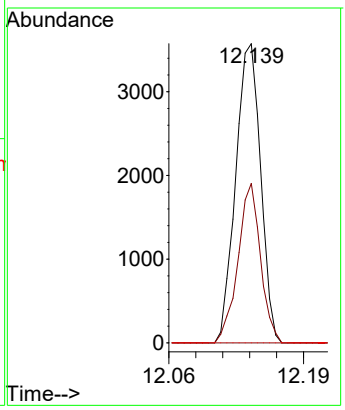


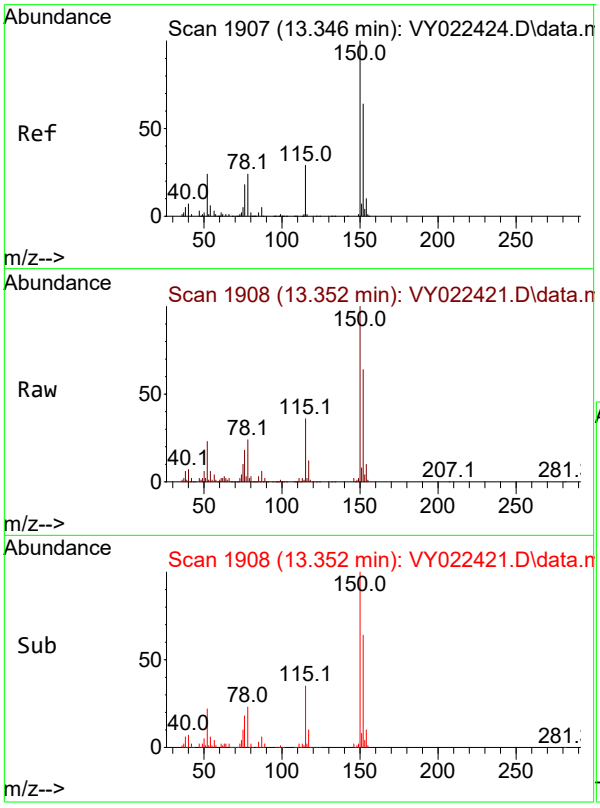
#71
Bromoform
Concen: 4.459 ug/l
RT: 12.139 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion:173 Resp: 6180

Ion	Ratio	Lower	Upper
173	100		
175	48.2	24.3	73.0
254	0.0	0.1	0.1#

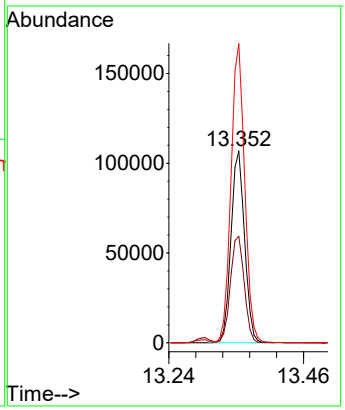


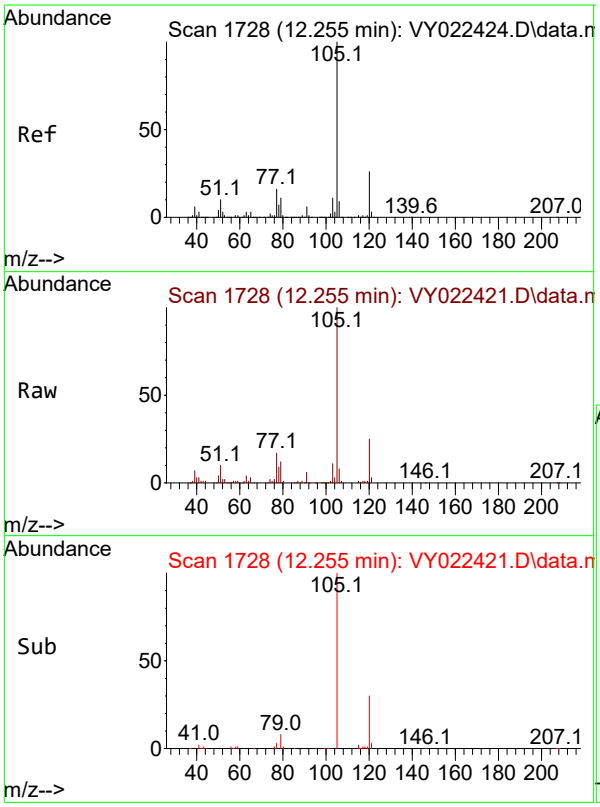


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.352 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion:152 Resp: 162324

Ion	Ratio	Lower	Upper
152	100		
115	56.6	28.4	85.3
150	157.7	0.0	345.8



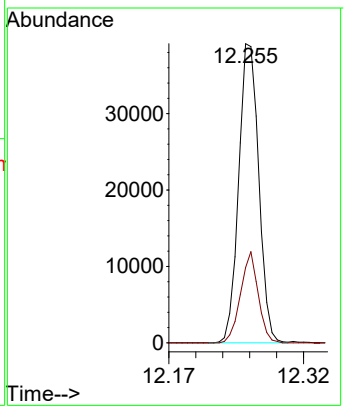


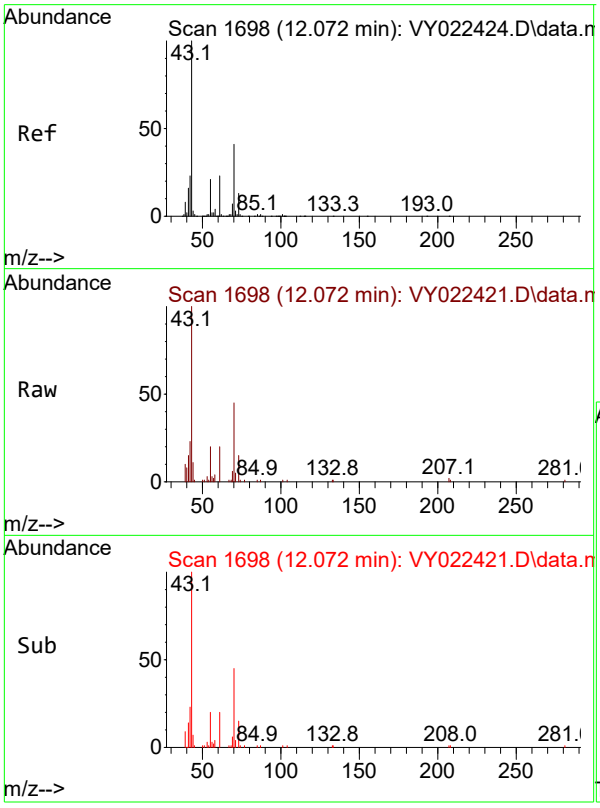
#73
Isopropylbenzene
Concen: 4.908 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion:105 Resp: 62701

Ion	Ratio	Lower	Upper
105	100		
120	26.8	13.2	39.5

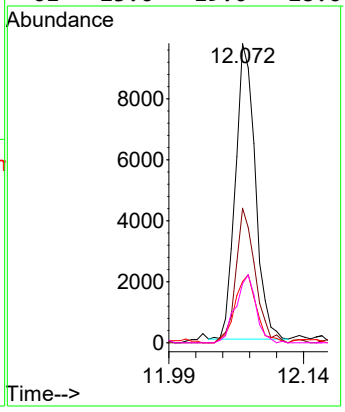


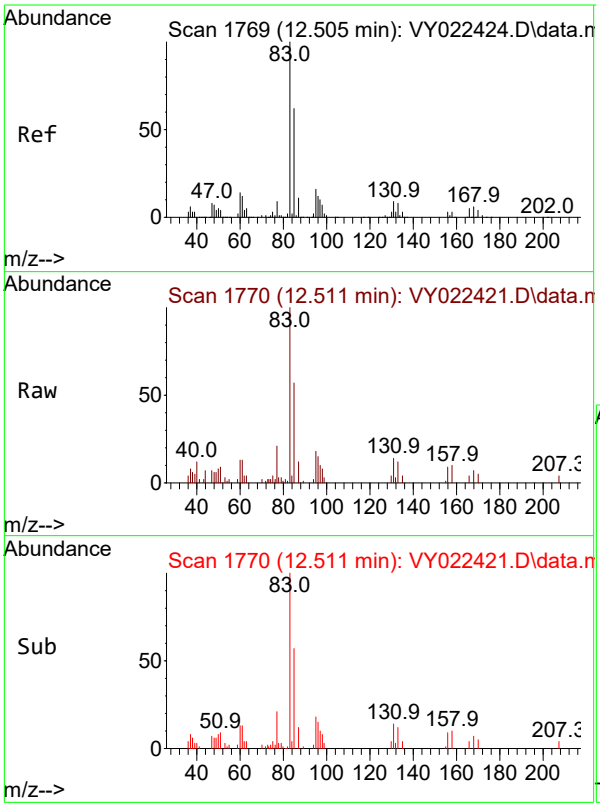


#74
N-amyl acetate
Concen: 4.584 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 43 Resp: 14329

Ion	Ratio	Lower	Upper
43	100		
70	44.4	33.0	49.4
55	25.0	17.5	26.3
61	23.6	19.0	28.6



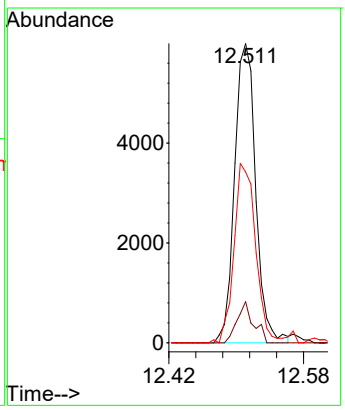


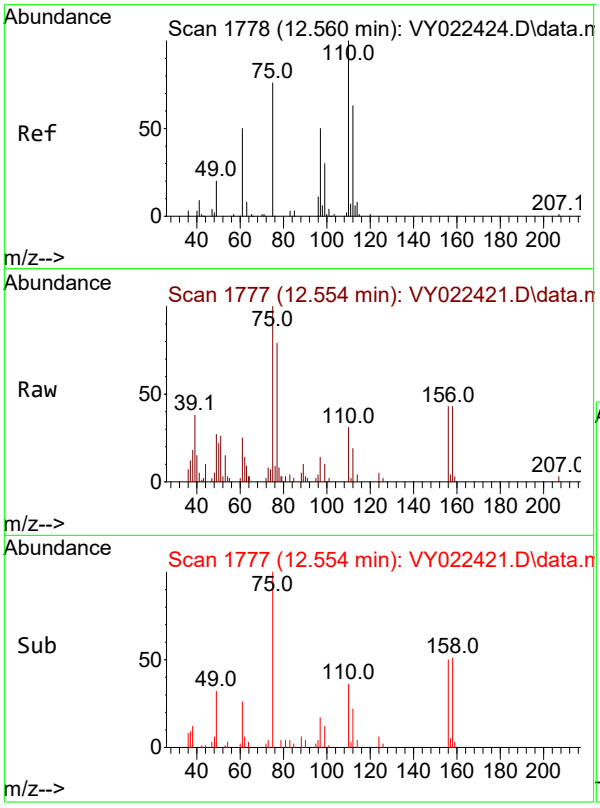
#75
1,1,2,2-Tetrachloroethane
Concen: 5.021 ug/l
RT: 12.511 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 83 Resp: 10107

Ion	Ratio	Lower	Upper
83	100		
131	10.7	4.8	14.4
85	60.9	32.0	96.2

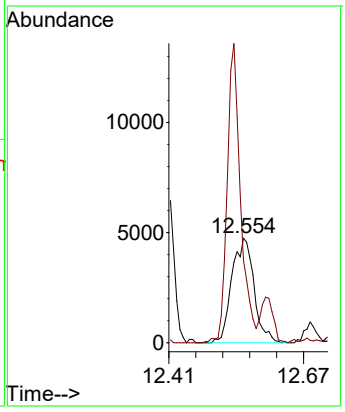


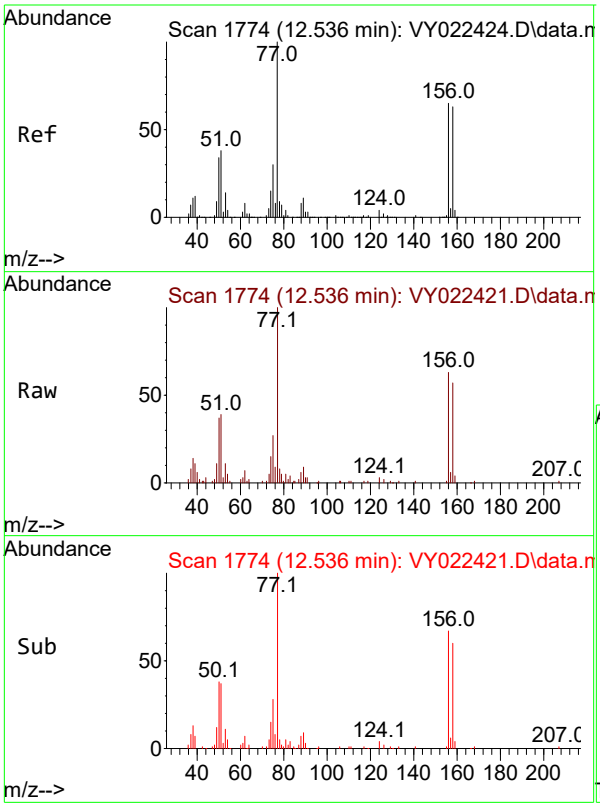


#76
1,2,3-Trichloropropane
Concen: 5.244 ug/l
RT: 12.554 min Scan# 1777
Delta R.T. -0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 75 Resp: 14024

Ion	Ratio	Lower	Upper
75	100		
77	173.3	0.0	0.0#



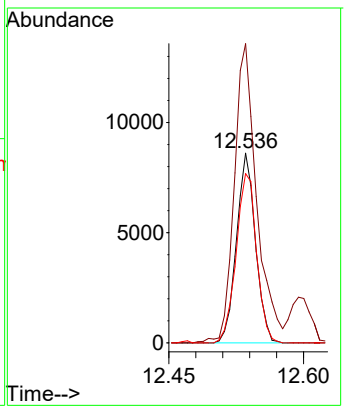


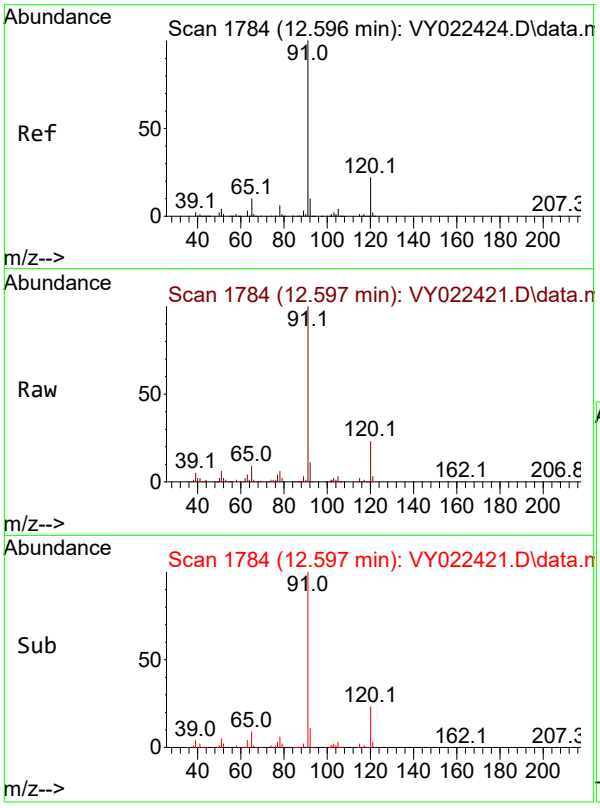
#77
Bromobenzene
Concen: 4.747 ug/l
RT: 12.536 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion:156 Resp: 13050

Ion	Ratio	Lower	Upper
156	100		
77	186.2	91.4	274.2
158	96.2	48.1	144.3

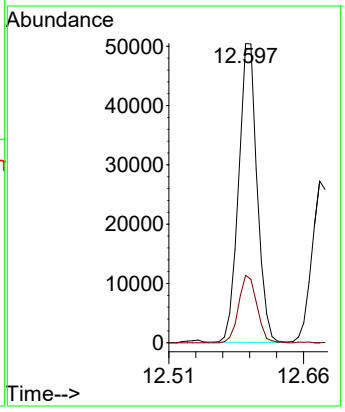


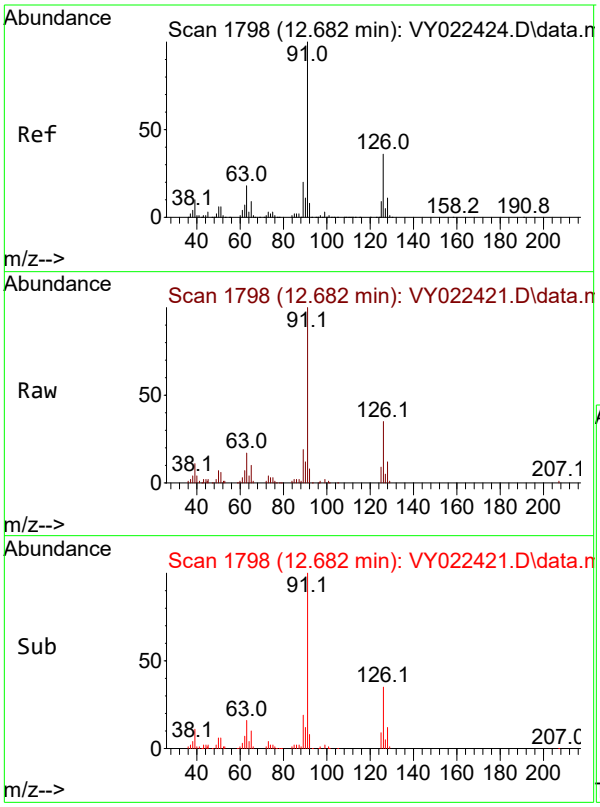


#78
n-propylbenzene
Concen: 4.856 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 91 Resp: 74444

Ion	Ratio	Lower	Upper
91	100		
120	22.3	11.2	33.5



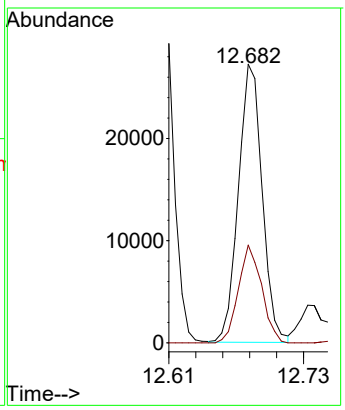


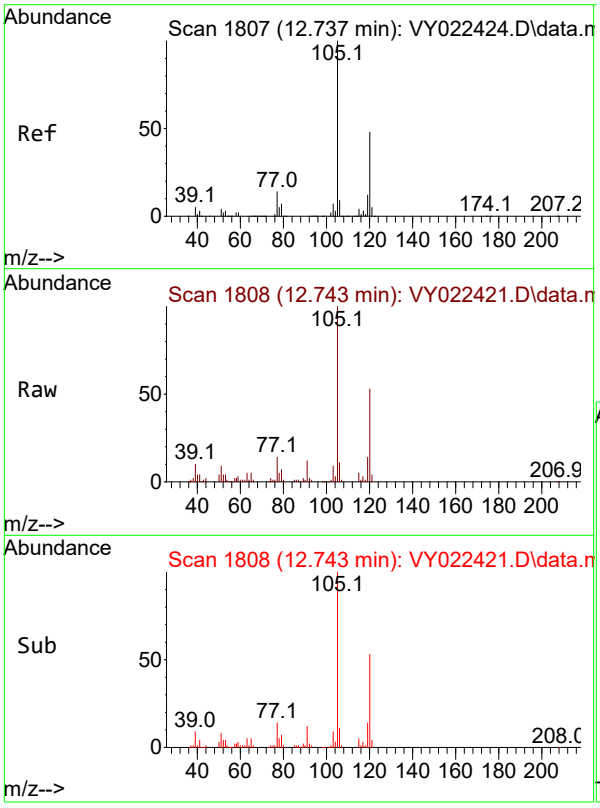
#79
2-Chlorotoluene
Concen: 5.002 ug/l
RT: 12.682 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 91 Resp: 41511

Ion	Ratio	Lower	Upper
91	100		
126	34.2	17.4	52.3

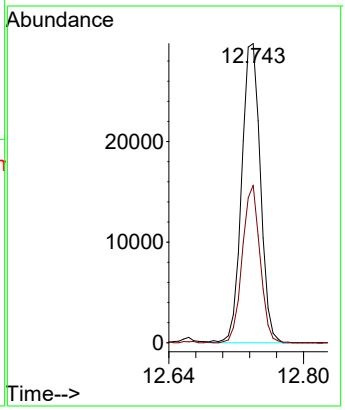


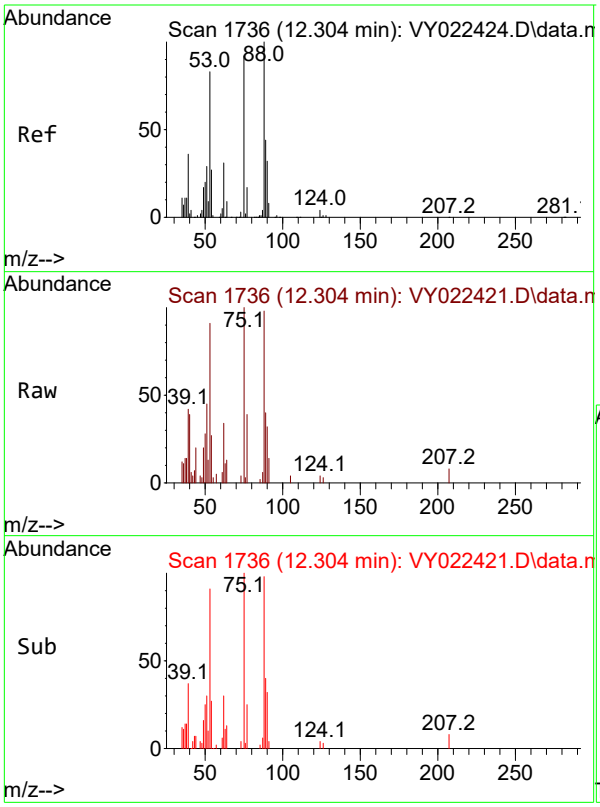


#80
1,3,5-Trimethylbenzene
Concen: 4.743 ug/l
RT: 12.743 min Scan# 1808
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion:105 Resp: 47346

Ion	Ratio	Lower	Upper
105	100		
120	50.0	24.3	73.0



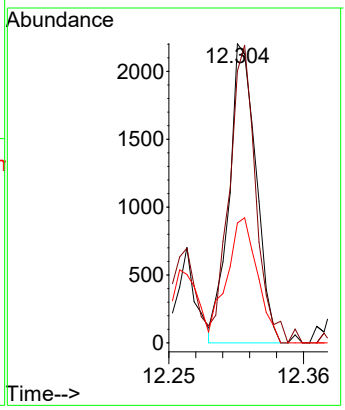


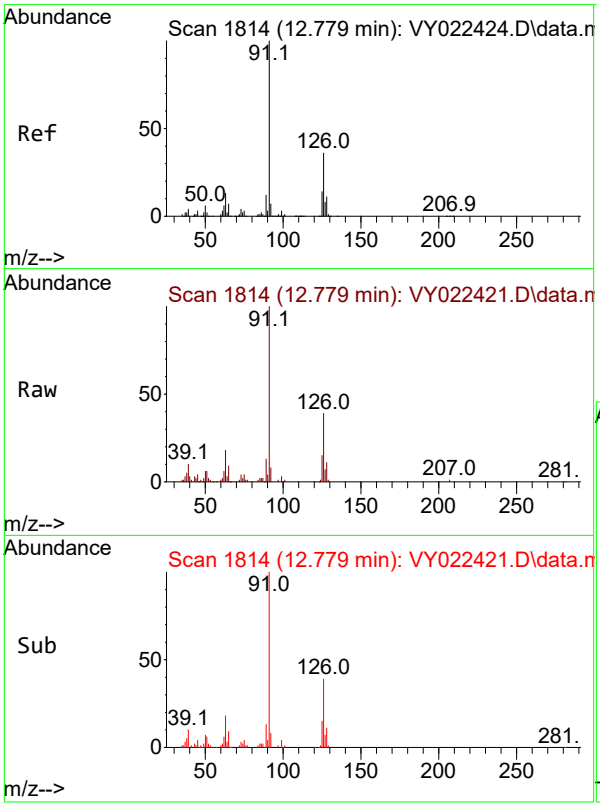
#81
trans-1,4-Dichloro-2-butene
Concen: 4.857 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 75 Resp: 3492

Ion	Ratio	Lower	Upper
75	100		
53	98.1	75.1	112.7
89	47.7	37.4	56.0

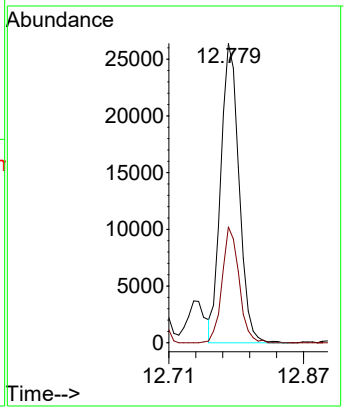


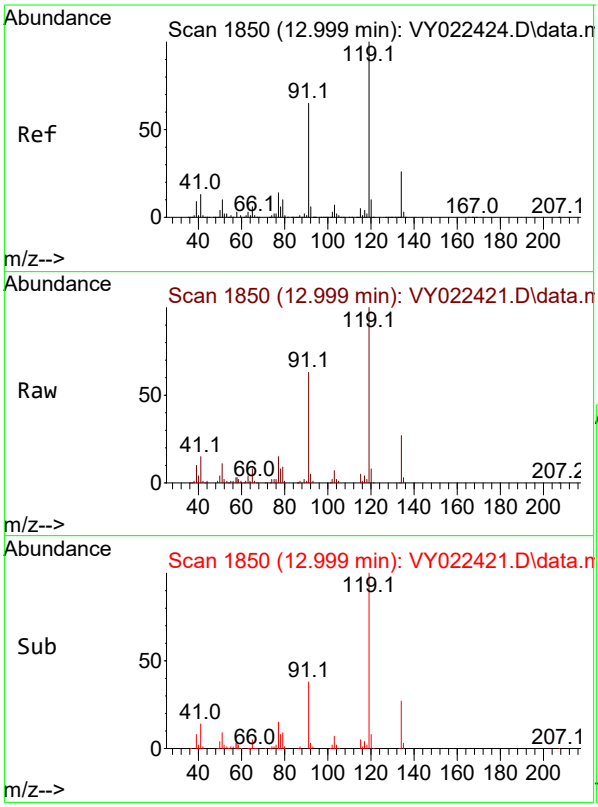


#82
4-Chlorotoluene
Concen: 4.801 ug/l
RT: 12.779 min Scan# 1814
Delta R.T. 0.000 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 91 Resp: 41039

Ion	Ratio	Lower	Upper
91	100		
126	36.0	17.2	51.6



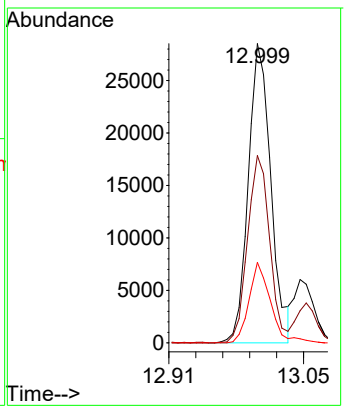


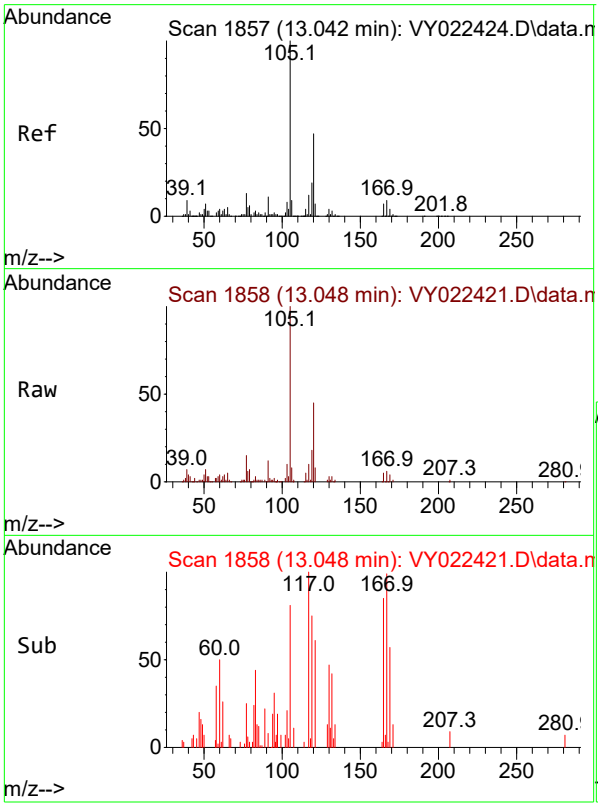
#83
tert-Butylbenzene
Concen: 4.951 ug/l
RT: 12.999 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion:119 Resp: 44656

Ion	Ratio	Lower	Upper
119	100		
91	61.4	31.8	95.3
134	25.6	13.0	38.9

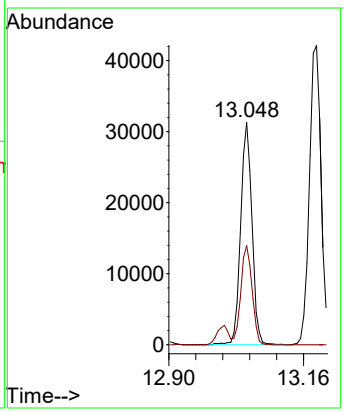


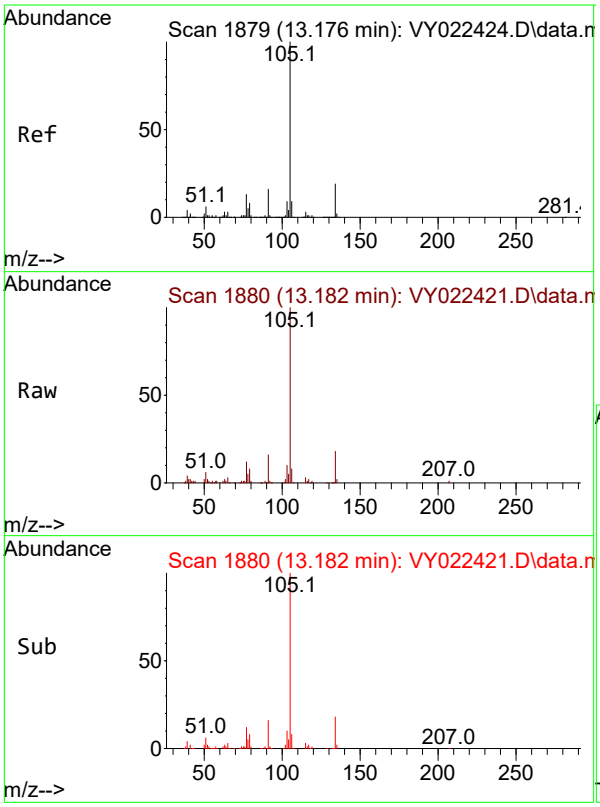


#84
1,2,4-Trimethylbenzene
Concen: 4.699 ug/l
RT: 13.048 min Scan# 1858
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion:105 Resp: 47206

Ion	Ratio	Lower	Upper
105	100		
120	44.5	22.9	68.5



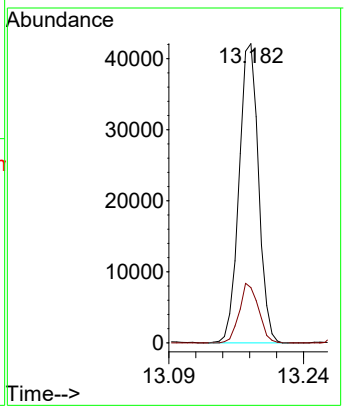


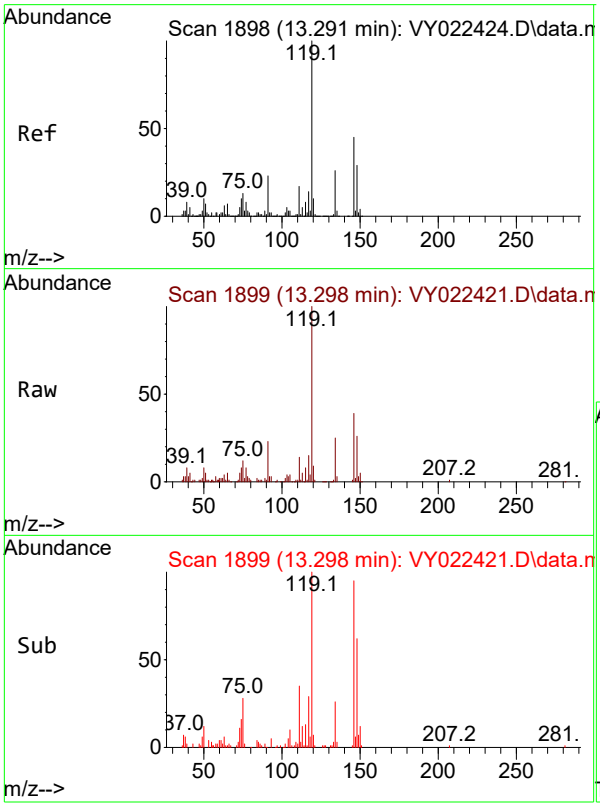
#85
sec-Butylbenzene
Concen: 4.897 ug/l
RT: 13.182 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion:105 Resp: 65492

Ion	Ratio	Lower	Upper
105	100		
134	19.5	9.7	29.1

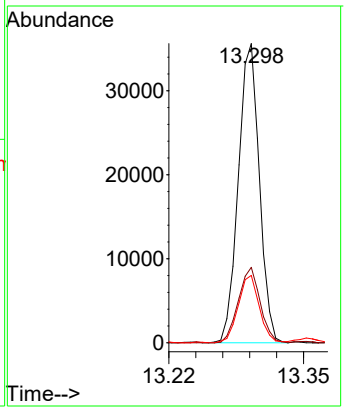


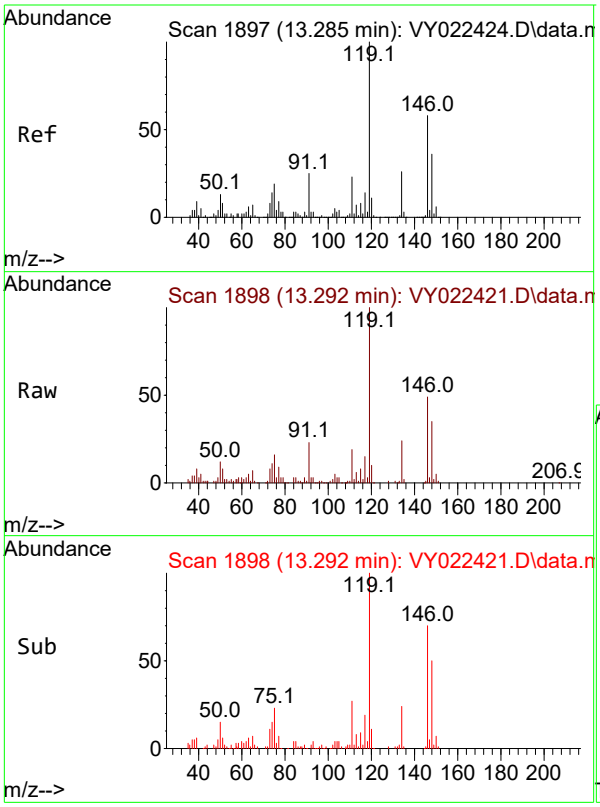


#86
p-Isopropyltoluene
Concen: 4.643 ug/l
RT: 13.298 min Scan# 1899
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion:119 Resp: 51853

Ion	Ratio	Lower	Upper
119	100		
134	26.1	13.0	39.0
91	22.6	11.6	34.8



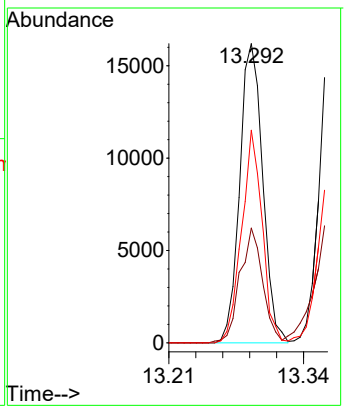


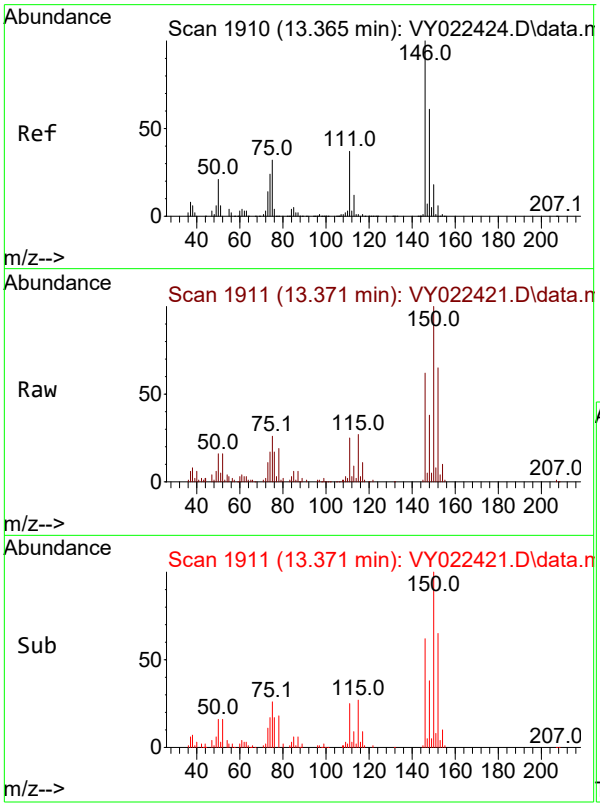
#87
1,3-Dichlorobenzene
Concen: 4.657 ug/l
RT: 13.292 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion:146 Resp: 25760

Ion	Ratio	Lower	Upper
146	100		
111	37.8	19.6	58.8
148	63.7	31.7	95.1

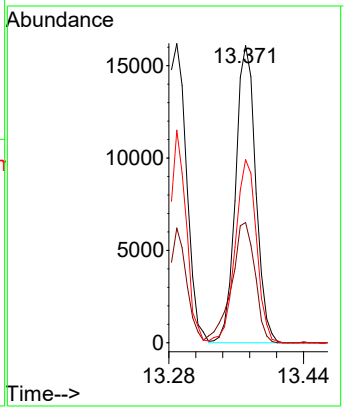


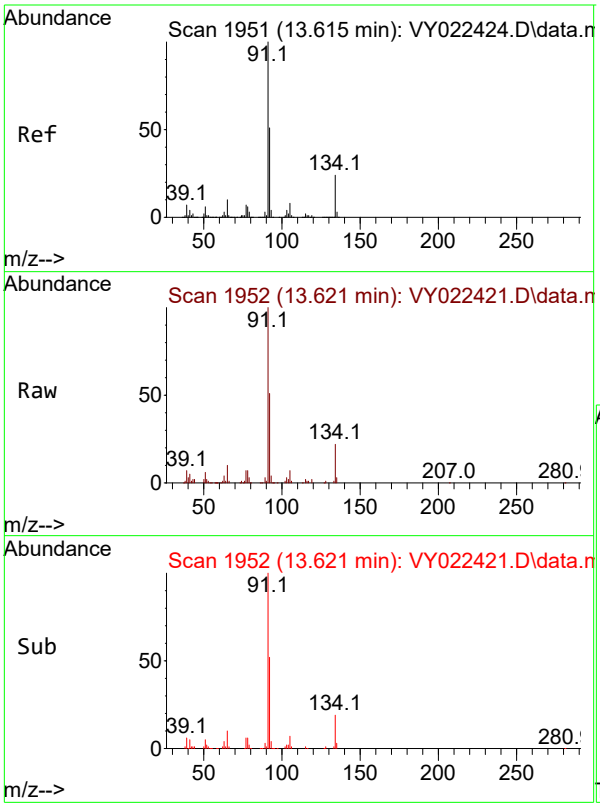


#88
1,4-Dichlorobenzene
Concen: 4.899 ug/l
RT: 13.371 min Scan# 1911
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion:146 Resp: 25910

Ion	Ratio	Lower	Upper
146	100		
111	47.4	18.7	56.1
148	64.9	31.4	94.3



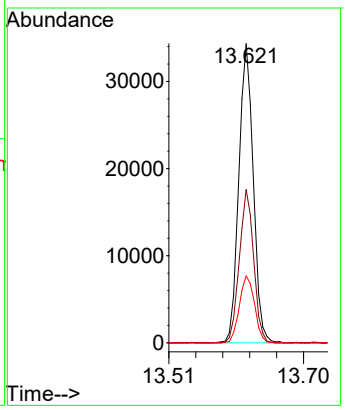


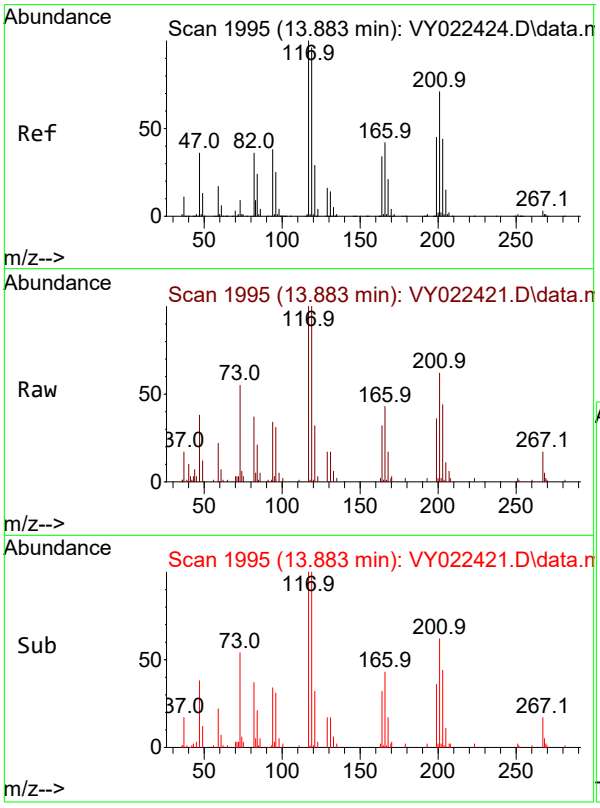
#89
n-Butylbenzene
Concen: 4.792 ug/l
RT: 13.621 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion: 91 Resp: 50178

Ion	Ratio	Lower	Upper
91	100		
92	50.7	25.9	77.6
134	23.5	12.4	37.0

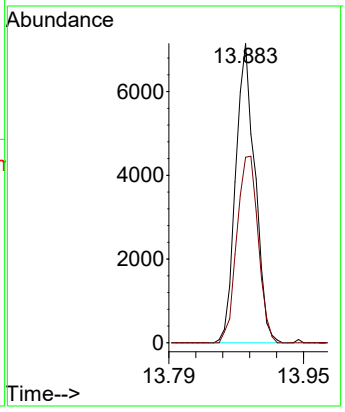


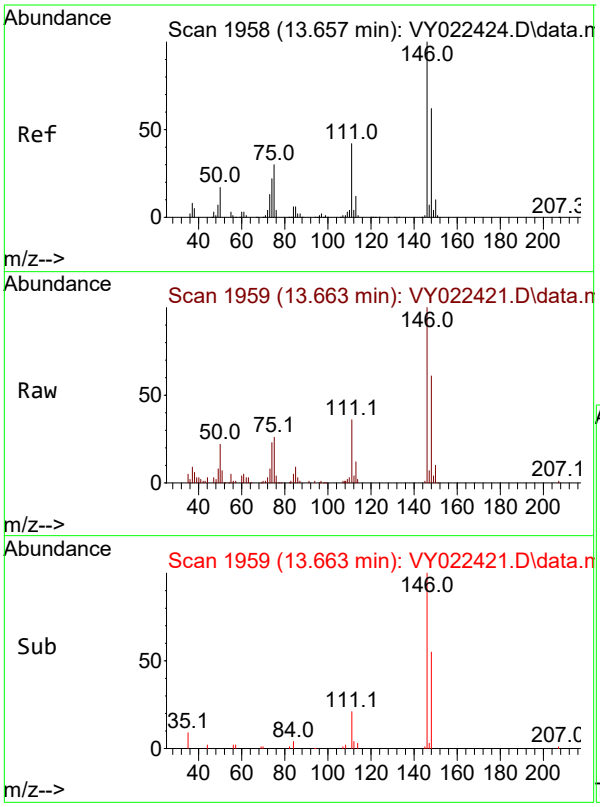


#90
Hexachloroethane
Concen: 4.958 ug/l
RT: 13.883 min Scan# 1995
Delta R.T. 0.000 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion:117 Resp: 11019

Ion	Ratio	Lower	Upper
117	100		
201	68.9	35.0	105.0



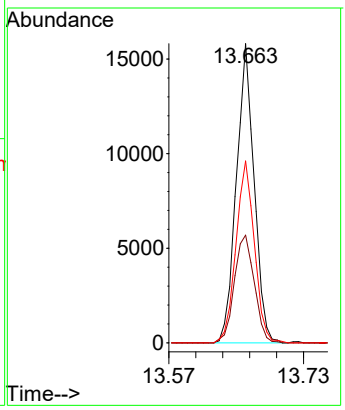


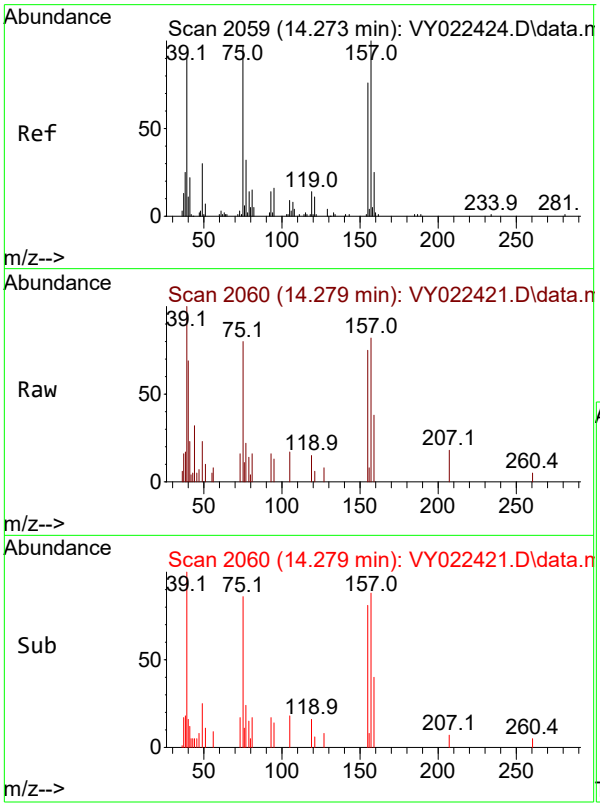
#91
1,2-Dichlorobenzene
Concen: 4.860 ug/l
RT: 13.663 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion:146 Resp: 22457

Ion	Ratio	Lower	Upper
146	100		
111	40.4	20.5	61.6
148	63.1	31.9	95.9

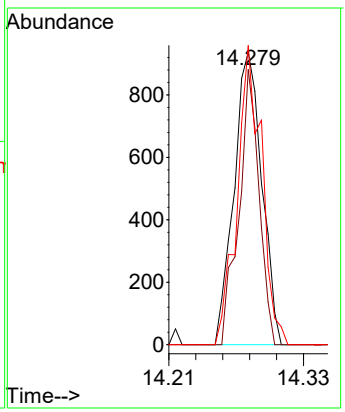


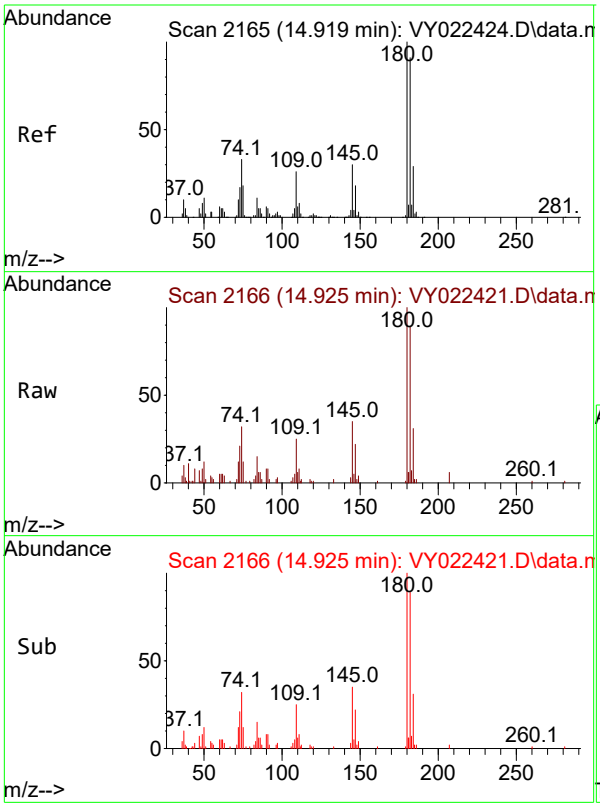


#92
1,2-Dibromo-3-Chloropropane
Concen: 5.360 ug/l
RT: 14.279 min Scan# 2060
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion: 75 Resp: 1667

Ion	Ratio	Lower	Upper
75	100		
155	68.2	42.3	126.8
157	90.4	54.4	163.3



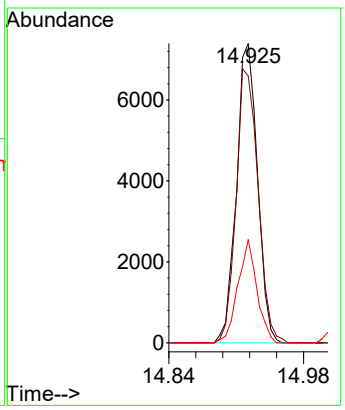


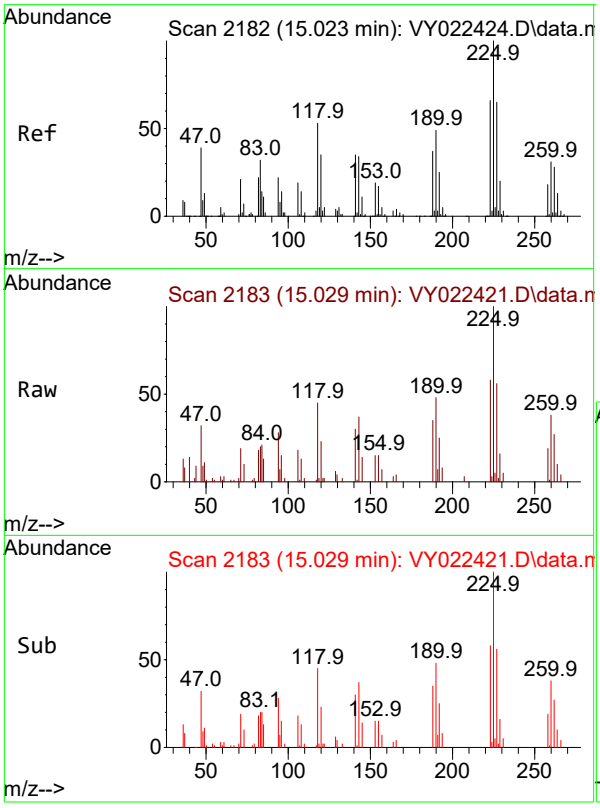
#93
1,2,4-Trichlorobenzene
Concen: 4.525 ug/l
RT: 14.925 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion:180 Resp: 11591

Ion	Ratio	Lower	Upper
180	100		
182	95.5	46.2	138.6
145	31.3	14.2	42.8

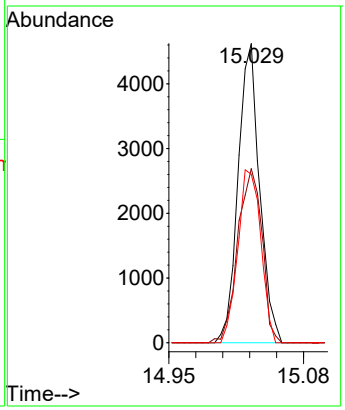


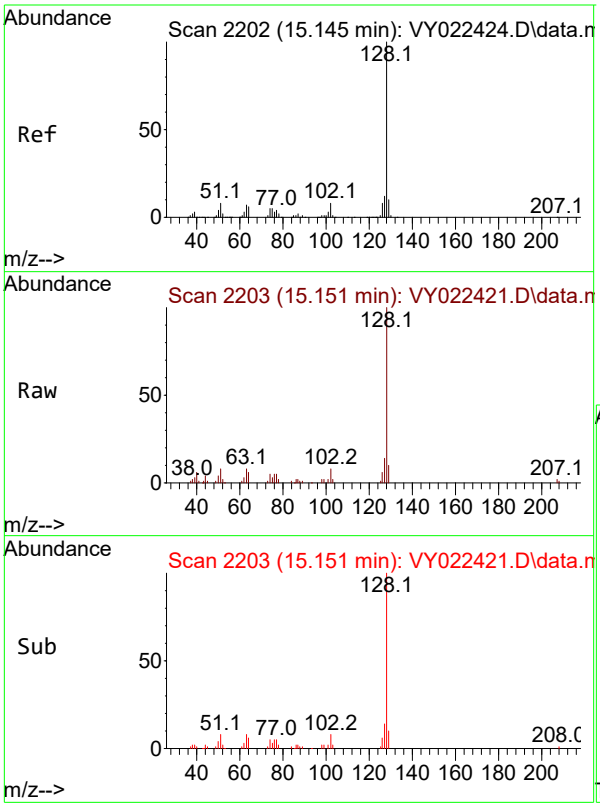


#94
Hexachlorobutadiene
Concen: 5.128 ug/l
RT: 15.029 min Scan# 2183
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion:225 Resp: 6893

Ion	Ratio	Lower	Upper
225	100		
223	65.4	32.6	97.7
227	61.8	33.0	99.0



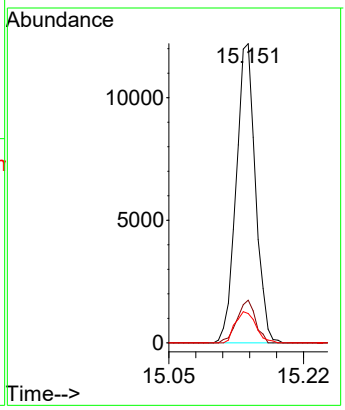


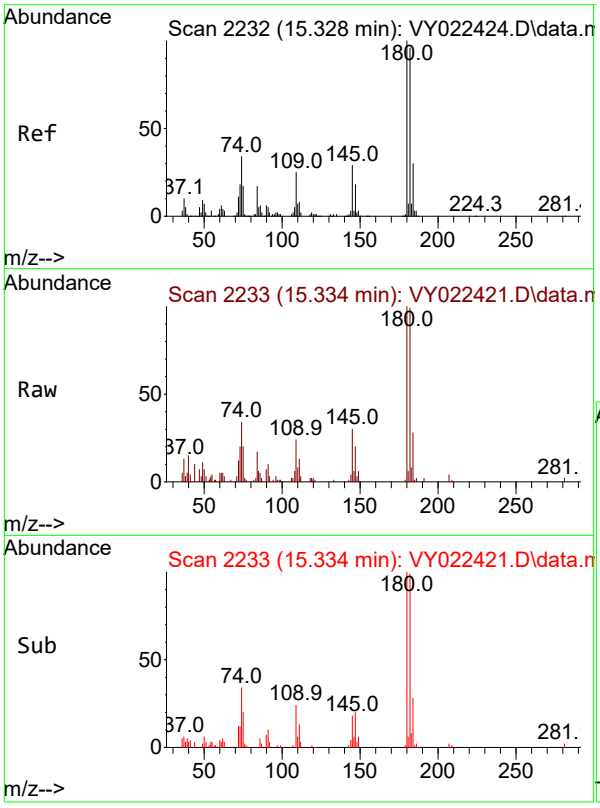
#95
Naphthalene
Concen: 4.237 ug/l
RT: 15.151 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Tgt Ion:128 Resp: 20065

Ion	Ratio	Lower	Upper
128	100		
127	13.7	10.2	15.4
129	11.2	8.5	12.7

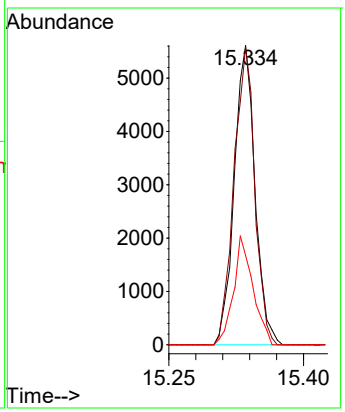




#96
1,2,3-Trichlorobenzene
Concen: 4.445 ug/l
RT: 15.334 min Scan# 2233
Delta R.T. 0.006 min
Lab File: VY022421.D
Acq: 27 May 2025 08:50

Tgt Ion:180 Resp: 9338

Ion	Ratio	Lower	Upper
180	100		
182	99.4	48.1	144.3
145	33.9	14.9	44.5



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022422.D
Acq On : 27 May 2025 09:14
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Quant Time: May 28 15:23:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	256391	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.622	114	436685	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	362684	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	162991	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	26927	9.971	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	19.940%#		
35) Dibromofluoromethane	7.640	113	24509	9.584	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	19.160%#		
50) Toluene-d8	10.109	98	98965	9.493	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	18.980%#		
62) 4-Bromofluorobenzene	12.408	95	28894	9.163	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	18.320%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	26076	10.660	ug/l	95
3) Chloromethane	2.068	50	68253	11.343	ug/l	98
4) Vinyl Chloride	2.208	62	76561	10.474	ug/l	96
5) Bromomethane	2.598	94	65697	9.890	ug/l	97
6) Chloroethane	2.745	64	45164	9.455	ug/l	98
7) Trichlorofluoromethane	3.056	101	60209	9.763	ug/l	100
8) Diethyl Ether	3.464	74	14042	9.875	ug/l	93
9) 1,1,2-Trichlorotrifluo...	3.824	101	26527	9.804	ug/l	99
10) Methyl Iodide	4.013	142	26870	8.803	ug/l	97
11) Tert butyl alcohol	4.897	59	9619	50.532	ug/l	97
12) 1,1-Dichloroethene	3.793	96	26273	9.781	ug/l	90
13) Acrolein	3.665	56	13770	48.278	ug/l	97
14) Allyl chloride	4.385	41	38553	9.541	ug/l	94
15) Acrylonitrile	5.068	53	28120	49.059	ug/l	98
16) Acetone	3.873	43	23174	52.221	ug/l	95
17) Carbon Disulfide	4.116	76	85913	10.022	ug/l	100
18) Methyl Acetate	4.397	43	16359	9.841	ug/l	98
19) Methyl tert-butyl Ether	5.122	73	69672	9.769	ug/l	98
20) Methylene Chloride	4.622	84	34301	10.946	ug/l	95
21) trans-1,2-Dichloroethene	5.122	96	28516	9.724	ug/l	94
22) Diisopropyl ether	6.025	45	87002	9.756	ug/l	97
23) Vinyl Acetate	5.970	43	244848	47.816	ug/l	98
24) 1,1-Dichloroethane	5.915	63	50541	9.591	ug/l	97
25) 2-Butanone	6.903	43	36872	49.890	ug/l	96
26) 2,2-Dichloropropane	6.896	77	46164	9.675	ug/l	98
27) cis-1,2-Dichloroethene	6.896	96	33197	9.778	ug/l	99
28) Bromochloromethane	7.250	49	21845	9.927	ug/l	98
29) Tetrahydrofuran	7.268	42	24020	48.732	ug/l	97
30) Chloroform	7.427	83	49760	9.583	ug/l	94
31) Cyclohexane	7.707	56	53552	10.309	ug/l #	94
32) 1,1,1-Trichloroethane	7.622	97	45829	9.725	ug/l	98
36) 1,1-Dichloropropene	7.841	75	38161	9.404	ug/l	98
37) Ethyl Acetate	6.994	43	16222	9.406	ug/l	97
38) Carbon Tetrachloride	7.829	117	39797	9.414	ug/l	92
39) Methylcyclohexane	9.109	83	52603	9.751	ug/l	98
40) Benzene	8.085	78	114576	9.489	ug/l	99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022422.D
Acq On : 27 May 2025 09:14
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Quant Time: May 28 15:23:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	7.268	41	14369	13.727 ug/l #	50
42) 1,2-Dichloroethane	8.165	62	30350	9.517 ug/l	99
43) Isopropyl Acetate	8.207	43	36584	9.707 ug/l	98
44) Trichloroethene	8.872	130	28407	9.516 ug/l	95
45) 1,2-Dichloropropane	9.146	63	26802	9.447 ug/l	98
46) Dibromomethane	9.238	93	14820	9.351 ug/l	98
47) Bromodichloromethane	9.427	83	39207	9.620 ug/l	97
48) Methyl methacrylate	9.225	41	16163	9.239 ug/l	95
49) 1,4-Dioxane	9.238	88	3170	181.086 ug/l	96
51) 4-Methyl-2-Pentanone	10.006	43	86201	46.358 ug/l	98
52) Toluene	10.176	92	70294	9.320 ug/l	98
53) t-1,3-Dichloropropene	10.396	75	36171	9.528 ug/l	93
54) cis-1,3-Dichloropropene	9.859	75	41945	9.403 ug/l	97
55) 1,1,2-Trichloroethane	10.579	97	18882	9.423 ug/l	98
56) Ethyl methacrylate	10.445	69	26658	9.270 ug/l	99
57) 1,3-Dichloropropane	10.719	76	33854	9.587 ug/l	98
58) 2-Chloroethyl Vinyl ether	9.713	63	66205	46.196 ug/l	100
59) 2-Hexanone	10.762	43	54792	44.963 ug/l	99
60) Dibromochloromethane	10.914	129	23908	9.340 ug/l	99
61) 1,2-Dibromoethane	11.018	107	16524	9.016 ug/l	91
64) Tetrachloroethene	10.652	164	30237	9.789 ug/l	95
65) Chlorobenzene	11.444	112	72507	9.376 ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.518	131	23791	9.080 ug/l	95
67) Ethyl Benzene	11.524	91	132623	9.236 ug/l	99
68) m/p-Xylenes	11.633	106	95743	17.586 ug/l	95
69) o-Xylene	11.957	106	46196	9.028 ug/l	98
70) Styrene	11.975	104	73993	8.685 ug/l	97
71) Bromoform	12.133	173	12746	9.287 ug/l #	99
73) Isopropylbenzene	12.255	105	121960	9.507 ug/l	99
74) N-amyl acetate	12.072	43	28607	9.114 ug/l	96
75) 1,1,2,2-Tetrachloroethane	12.505	83	18720	9.262 ug/l	100
76) 1,2,3-Trichloropropane	12.560	75	27985	17.141 ug/l #	100
77) Bromobenzene	12.536	156	26457	9.584 ug/l	99
78) n-propylbenzene	12.597	91	145616	9.459 ug/l	100
79) 2-Chlorotoluene	12.682	91	79070	9.488 ug/l	100
80) 1,3,5-Trimethylbenzene	12.737	105	93557	9.334 ug/l	98
81) trans-1,4-Dichloro-2-b...	12.304	75	6931	9.601 ug/l	97
82) 4-Chlorotoluene	12.780	91	80299	9.356 ug/l	98
83) tert-Butylbenzene	12.999	119	83455	9.216 ug/l	99
84) 1,2,4-Trimethylbenzene	13.042	105	93094	9.230 ug/l	99
85) sec-Butylbenzene	13.176	105	123436	9.191 ug/l	99
86) p-Isopropyltoluene	13.292	119	100168	8.932 ug/l	99
87) 1,3-Dichlorobenzene	13.292	146	50790	9.144 ug/l	100
88) 1,4-Dichlorobenzene	13.371	146	49773	9.372 ug/l	95
89) n-Butylbenzene	13.621	91	93025	8.847 ug/l	98
90) Hexachloroethane	13.883	117	20778	9.310 ug/l	98
91) 1,2-Dichlorobenzene	13.657	146	43417	9.358 ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.279	75	3042	9.740 ug/l	99
93) 1,2,4-Trichlorobenzene	14.919	180	23591	9.172 ug/l	98
94) Hexachlorobutadiene	15.023	225	12088	8.956 ug/l	99
95) Naphthalene	15.145	128	42212	8.878 ug/l	98
96) 1,2,3-Trichlorobenzene	15.328	180	18071	8.567 ug/l	98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022422.D
Acq On : 27 May 2025 09:14
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Quant Time: May 28 15:23:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

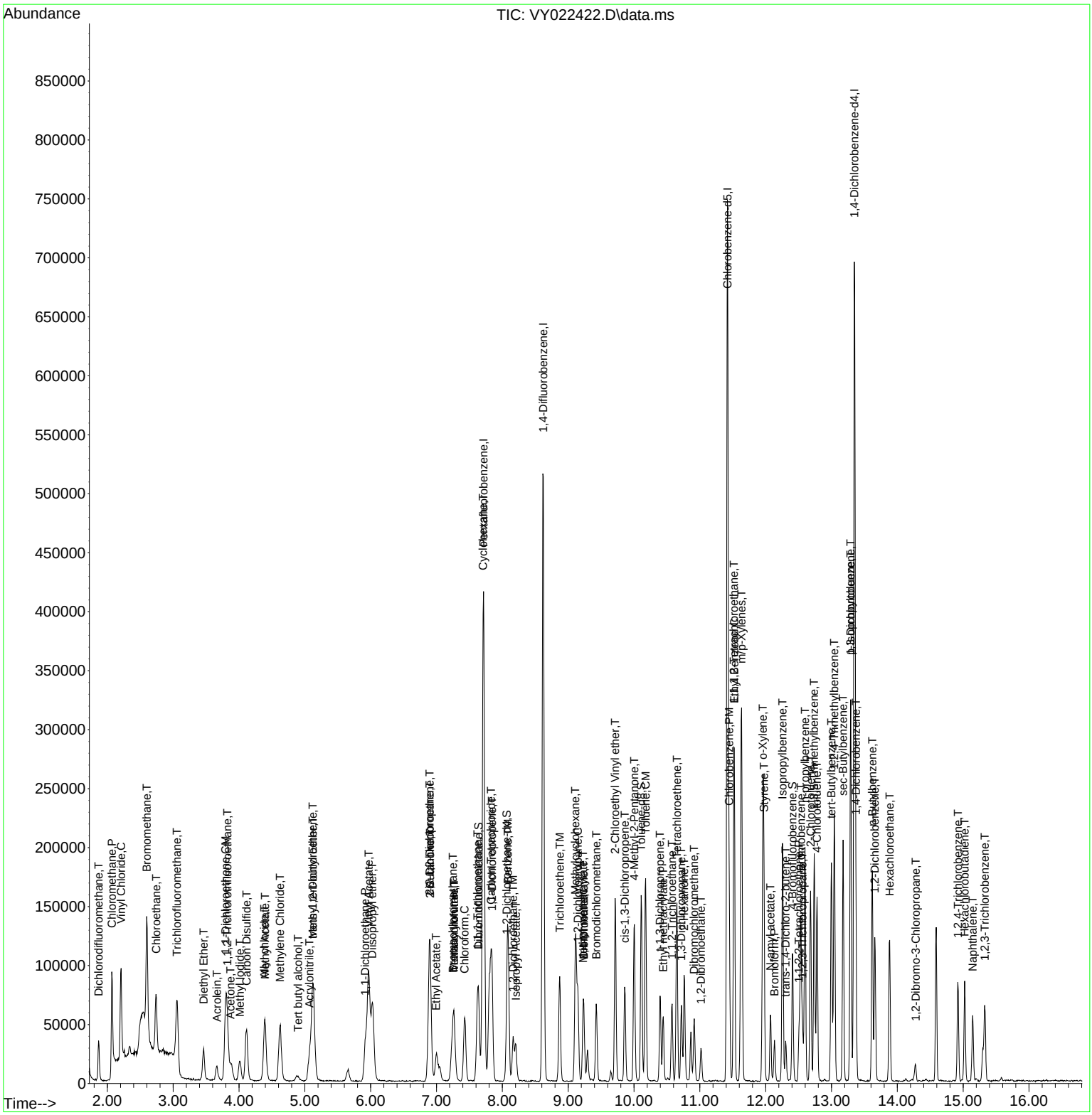
(#) = qualifier out of range (m) = manual integration (+) = signals summed

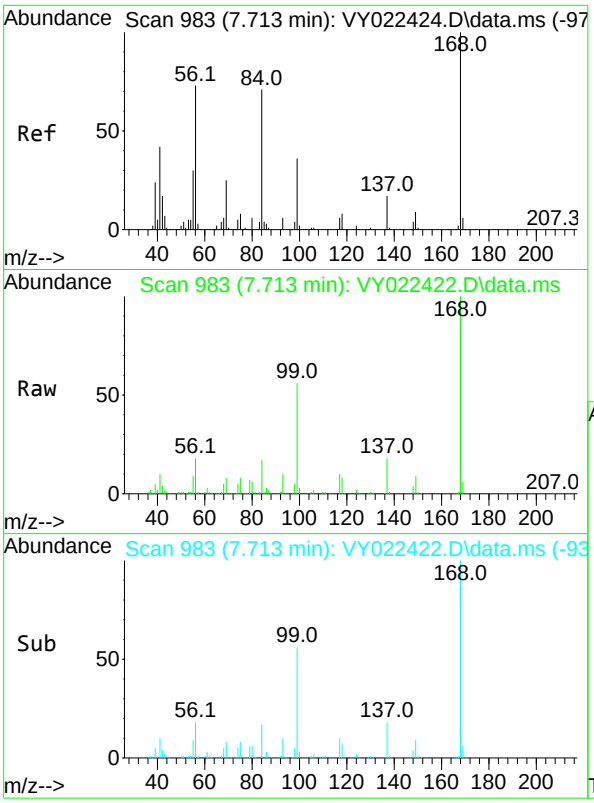
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022422.D
Acq On : 27 May 2025 09:14
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Quant Time: May 28 15:23:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration



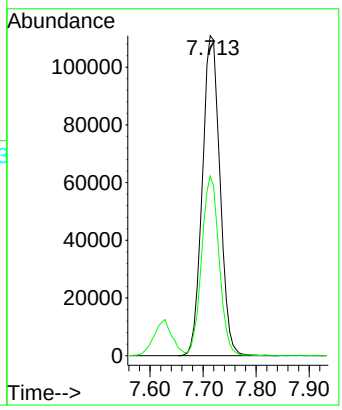


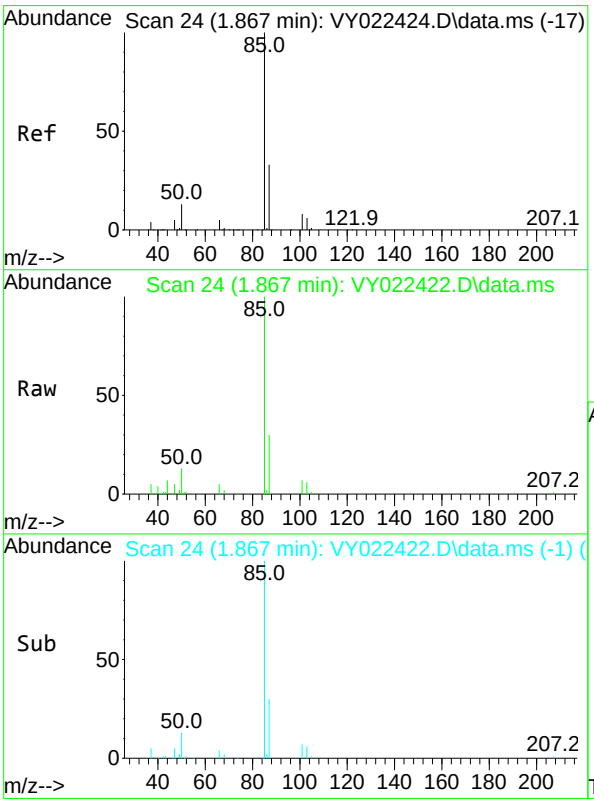
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion:168 Resp: 256391

Ion	Ratio	Lower	Upper
168	100		
99	56.2	44.7	67.1

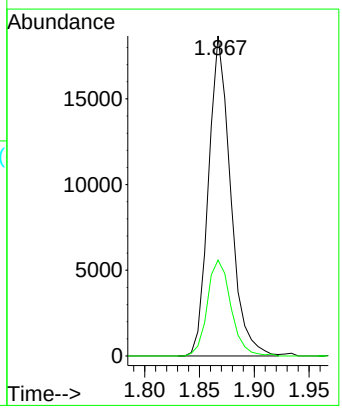


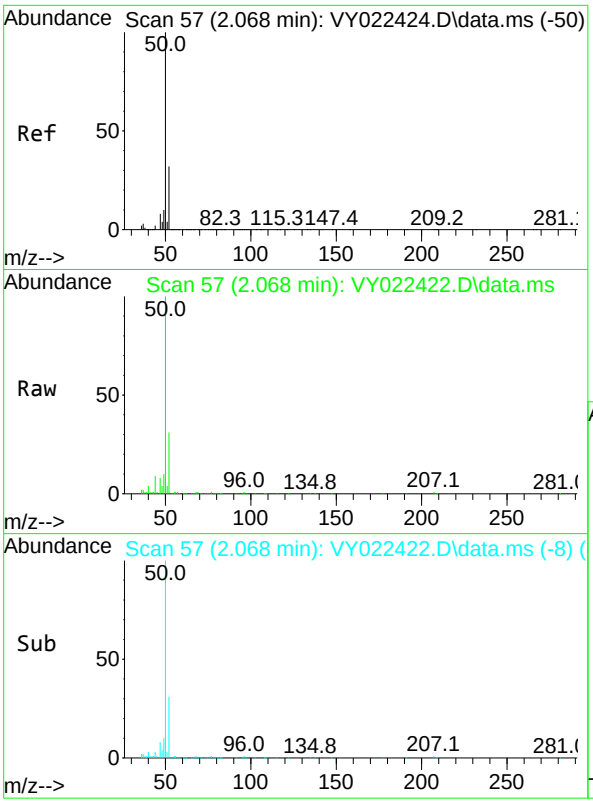


#2
Dichlorodifluoromethane
Concen: 10.660 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 85 Resp: 26076

Ion	Ratio	Lower	Upper
85	100		
87	30.0	16.4	49.2



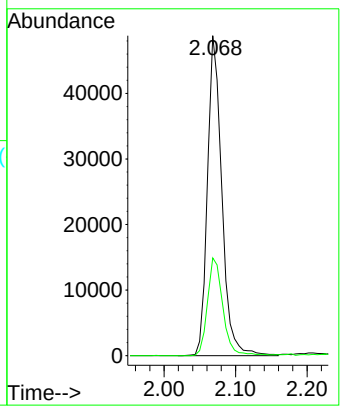


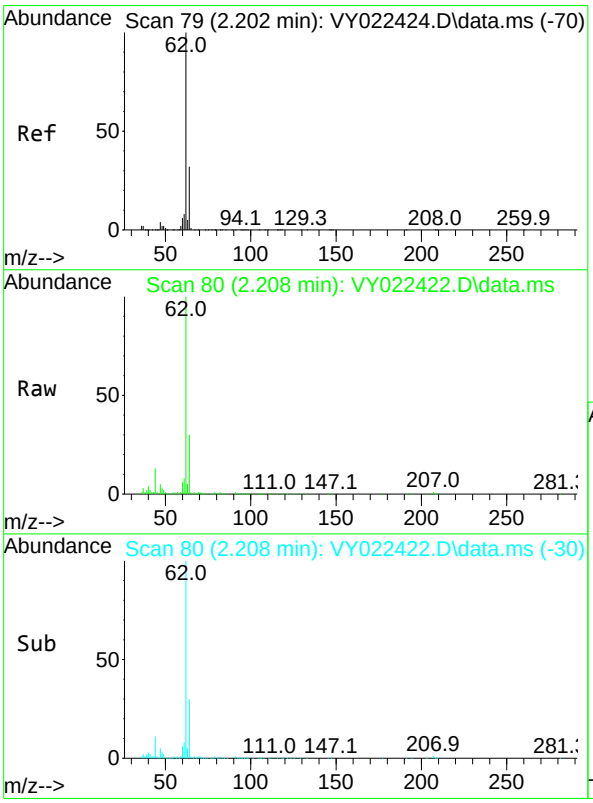
#3
Chloromethane
Concen: 11.343 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 50 Resp: 68253

Ion	Ratio	Lower	Upper
50	100		
52	30.6	25.5	38.3

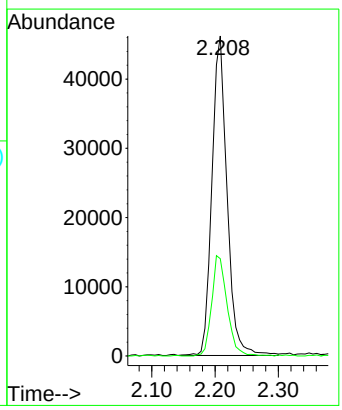


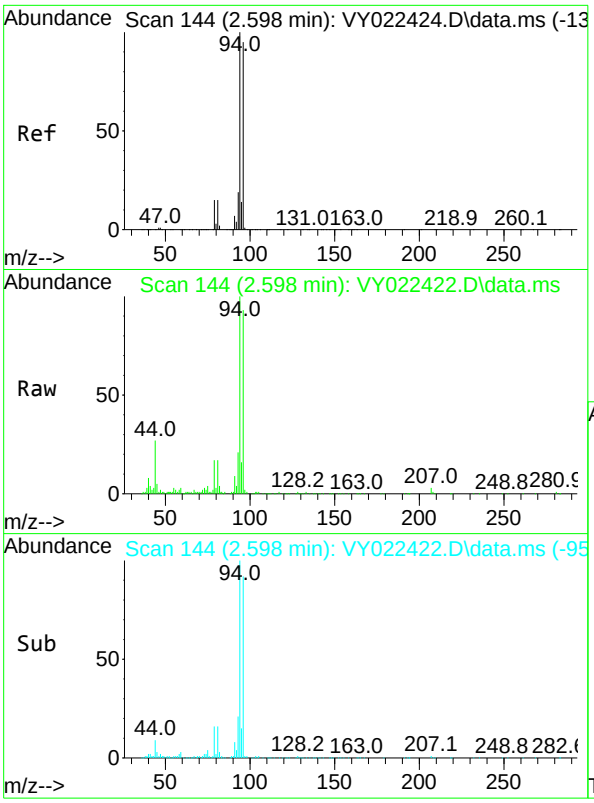


#4
Vinyl Chloride
Concen: 10.474 ug/l
RT: 2.208 min Scan# 80
Delta R.T. 0.006 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 62 Resp: 76561

Ion	Ratio	Lower	Upper
62	100		
64	30.3	26.0	39.0



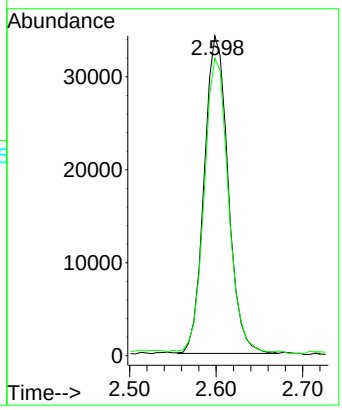


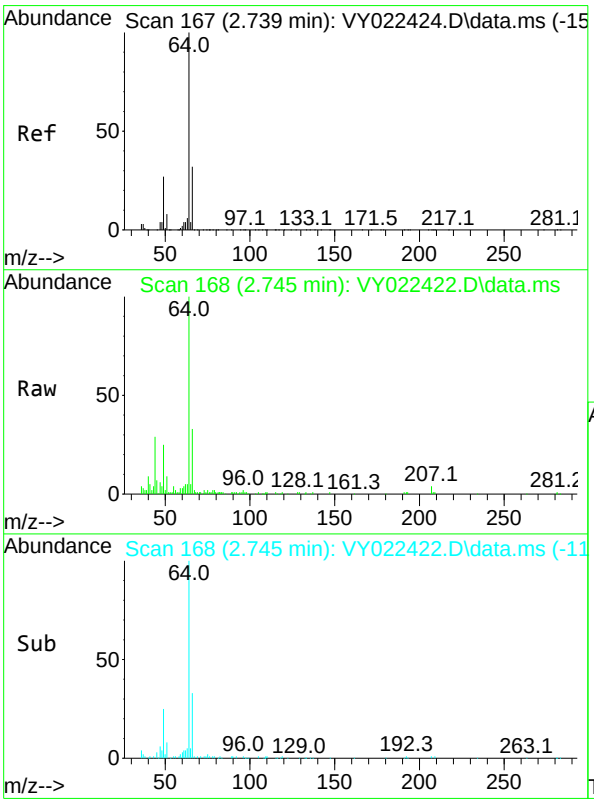
#5
Bromomethane
Concen: 9.890 ug/l
RT: 2.598 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 94 Resp: 65697

Ion	Ratio	Lower	Upper
94	100		
96	92.1	76.0	114.0

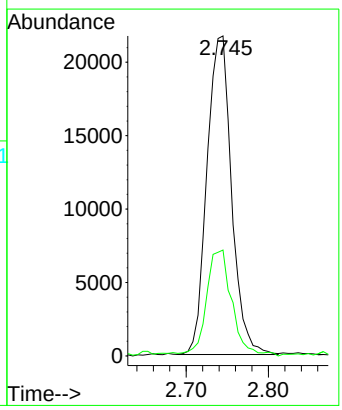


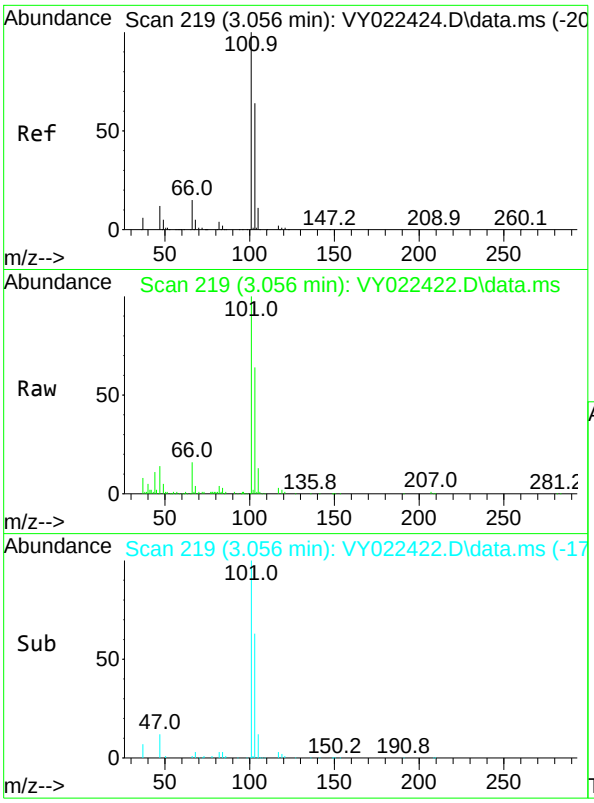


#6
Chloroethane
Concen: 9.455 ug/l
RT: 2.745 min Scan# 168
Delta R.T. 0.006 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 64 Resp: 45164

Ion	Ratio	Lower	Upper
64	100		
66	33.3	25.9	38.9



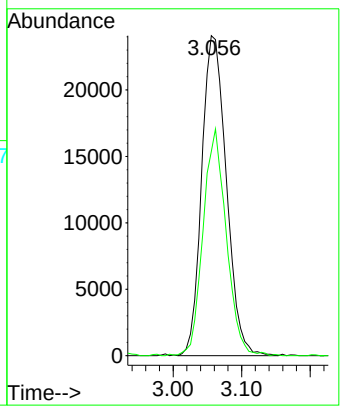


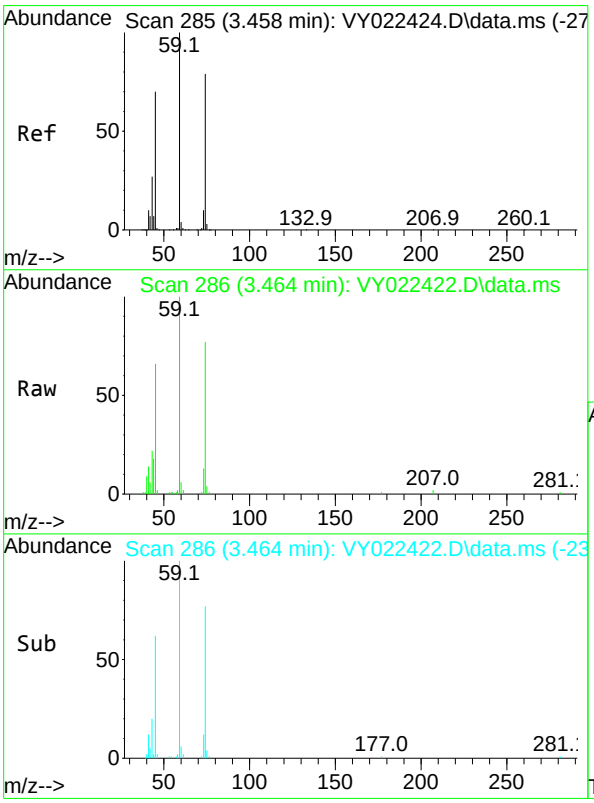
#7
Trichlorofluoromethane
Concen: 9.763 ug/l
RT: 3.056 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion:101 Resp: 60209

Ion	Ratio	Lower	Upper
101	100		
103	63.5	50.9	76.3

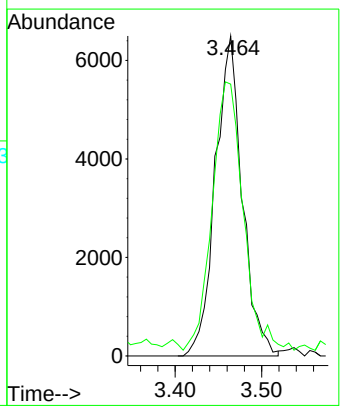


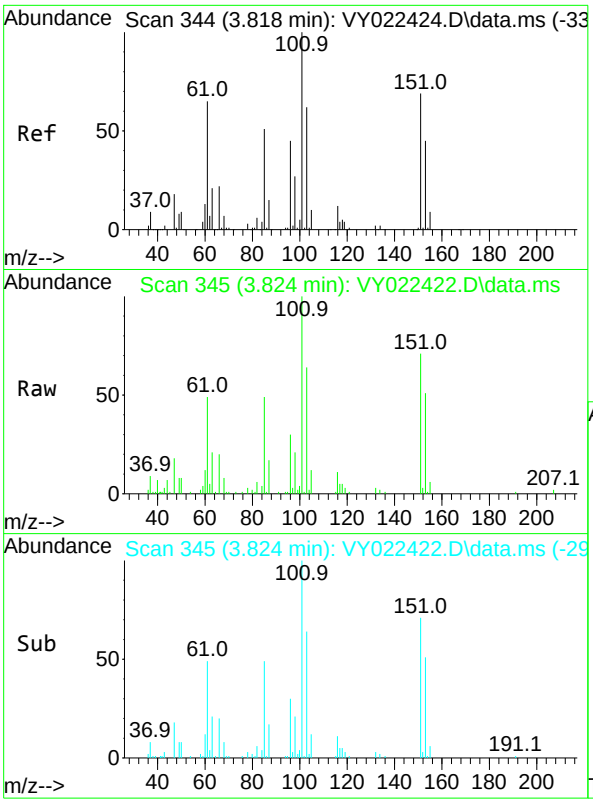


#8
Diethyl Ether
Concen: 9.875 ug/l
RT: 3.464 min Scan# 286
Delta R.T. 0.006 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 74 Resp: 14042

Ion	Ratio	Lower	Upper
74	100		
45	96.1	44.9	134.5



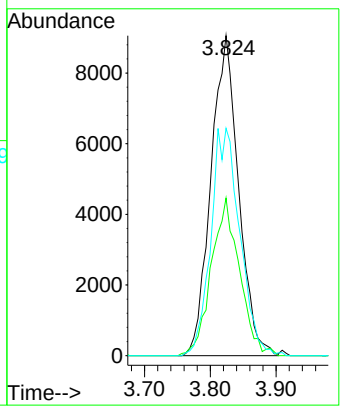


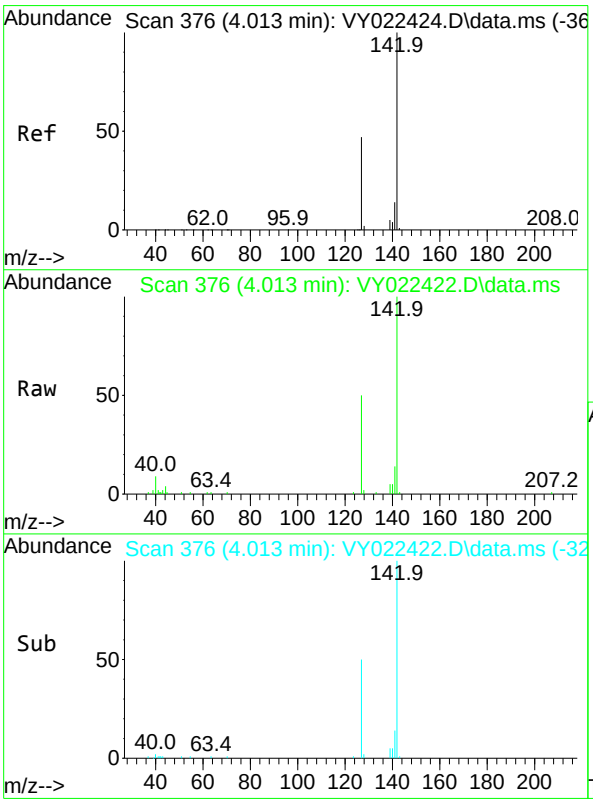
#9
1,1,2-Trichlorotrifluoroethane
Concen: 9.804 ug/l
RT: 3.824 min Scan# 34
Delta R.T. 0.006 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion:101 Resp: 26527

Ion	Ratio	Lower	Upper
101	100		
85	50.2	39.2	58.8
151	74.4	58.8	88.2

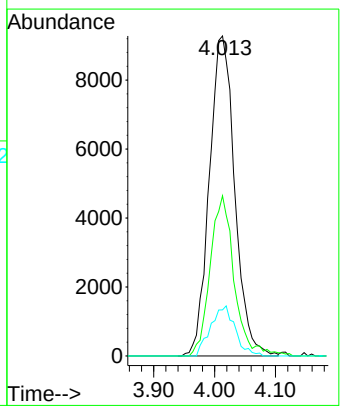


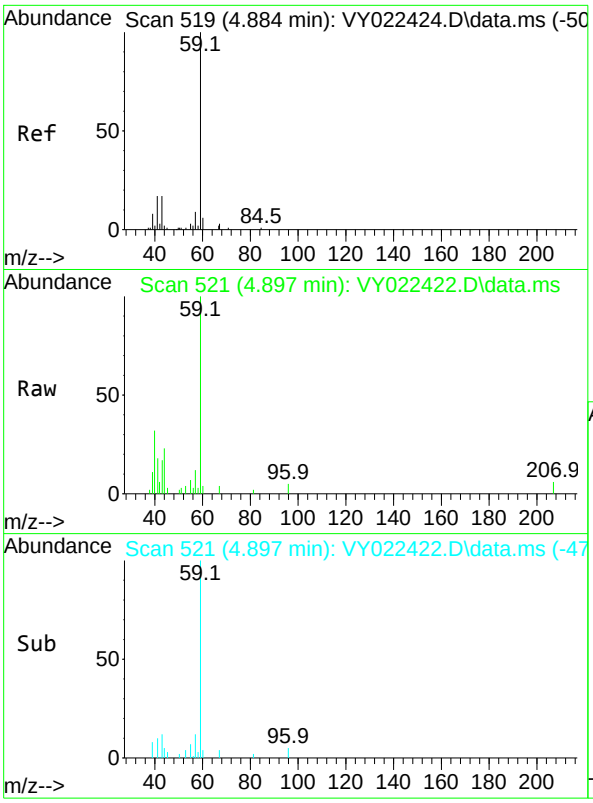


#10
Methyl Iodide
Concen: 8.803 ug/l
RT: 4.013 min Scan# 376
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion:142 Resp: 26870

Ion	Ratio	Lower	Upper
142	100		
127	47.5	36.2	54.4
141	15.1	11.6	17.4



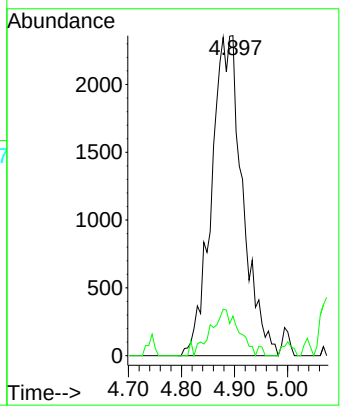


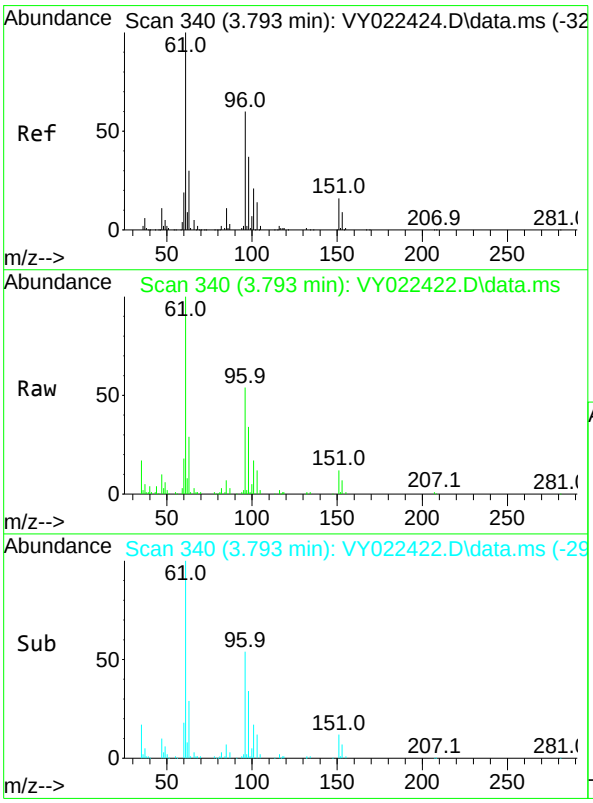
#11
Tert butyl alcohol
Concen: 50.532 ug/l
RT: 4.897 min Scan# 5
Delta R.T. 0.012 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 59 Resp: 9619

Ion	Ratio	Lower	Upper
59	100		
57	12.7	9.1	13.7

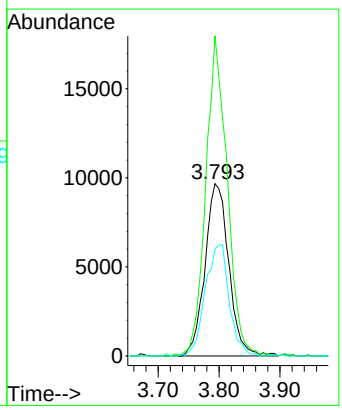


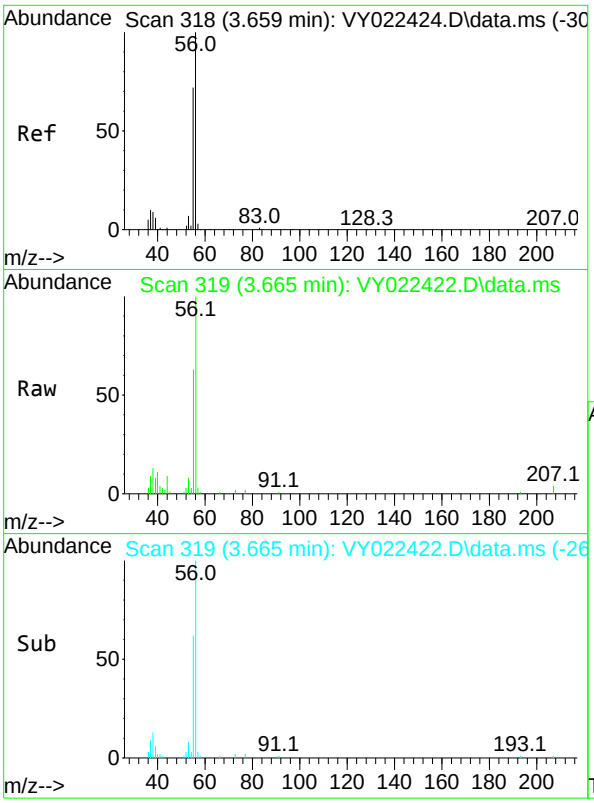


#12
1,1-Dichloroethene
Concen: 9.781 ug/l
RT: 3.793 min Scan# 340
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 96 Resp: 26273

Ion	Ratio	Lower	Upper
96	100		
61	185.6	134.1	201.1
98	62.2	50.2	75.2



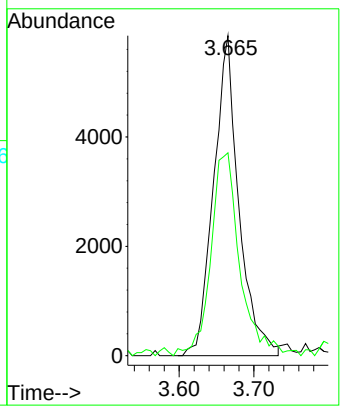


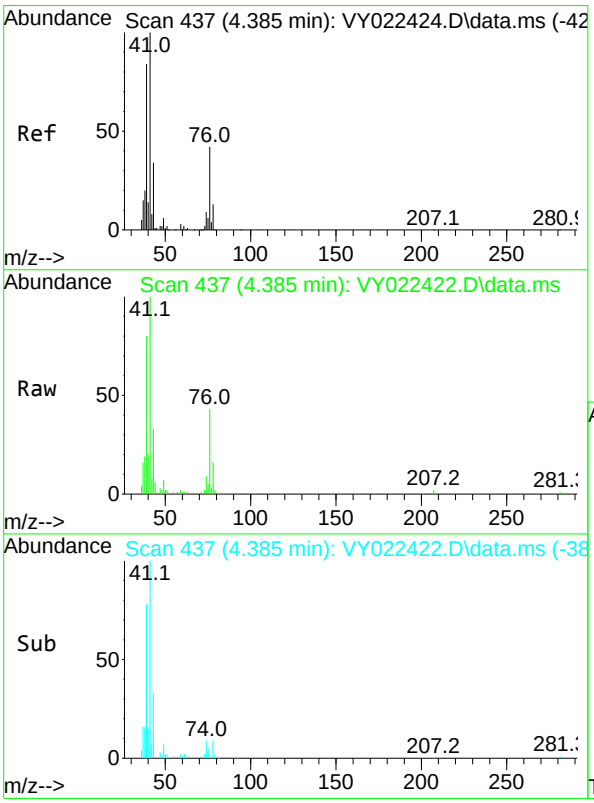
#13
Acrolein
Concen: 48.278 ug/l
RT: 3.665 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 56 Resp: 13770

Ion	Ratio	Lower	Upper
56	100		
55	72.9	56.5	84.7

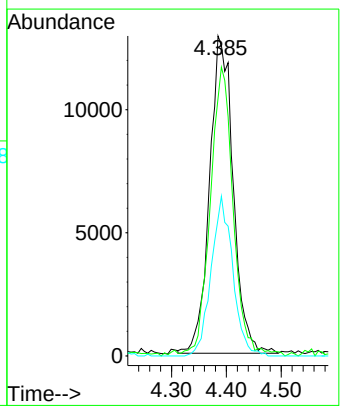


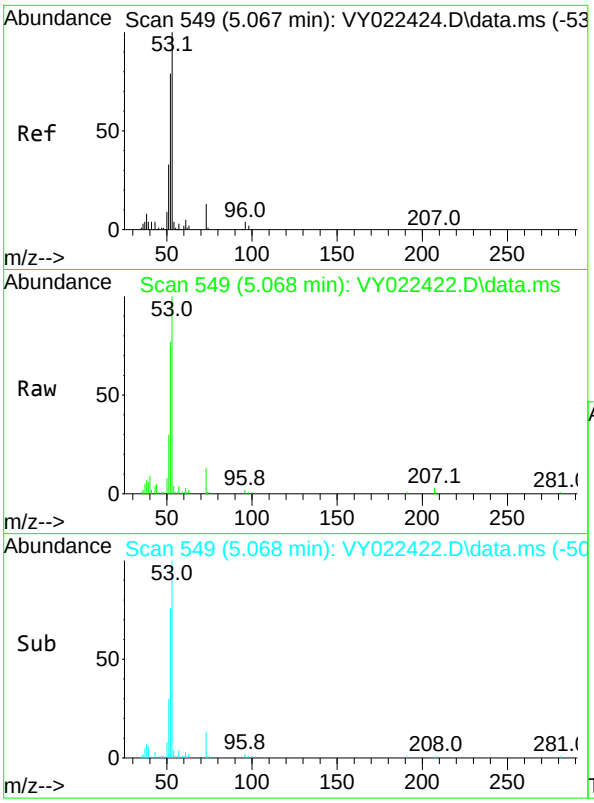


#14
Allyl chloride
Concen: 9.541 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 41 Resp: 38553

Ion	Ratio	Lower	Upper
41	100		
39	88.5	66.6	100.0
76	46.0	33.7	50.5



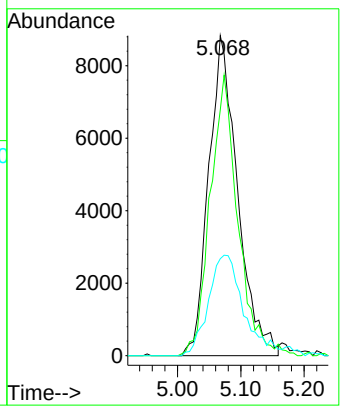


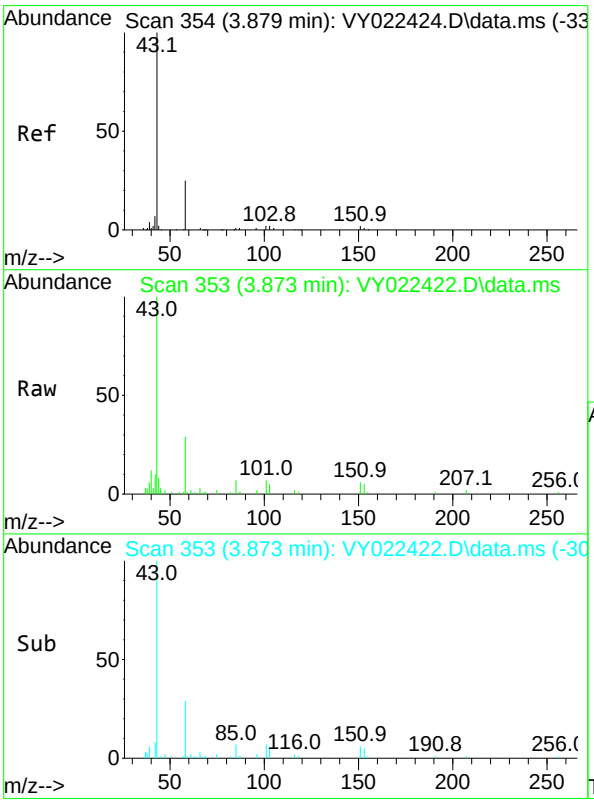
#15
Acrylonitrile
Concen: 49.059 ug/l
RT: 5.068 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 53 Resp: 28120

Ion	Ratio	Lower	Upper
53	100		
52	83.6	65.1	97.7
51	38.0	30.0	45.0

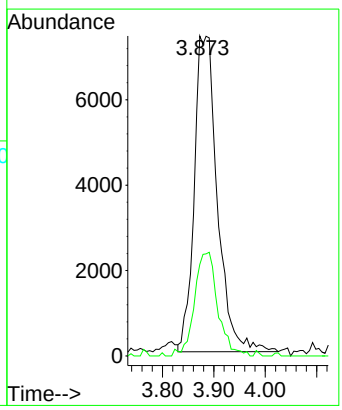


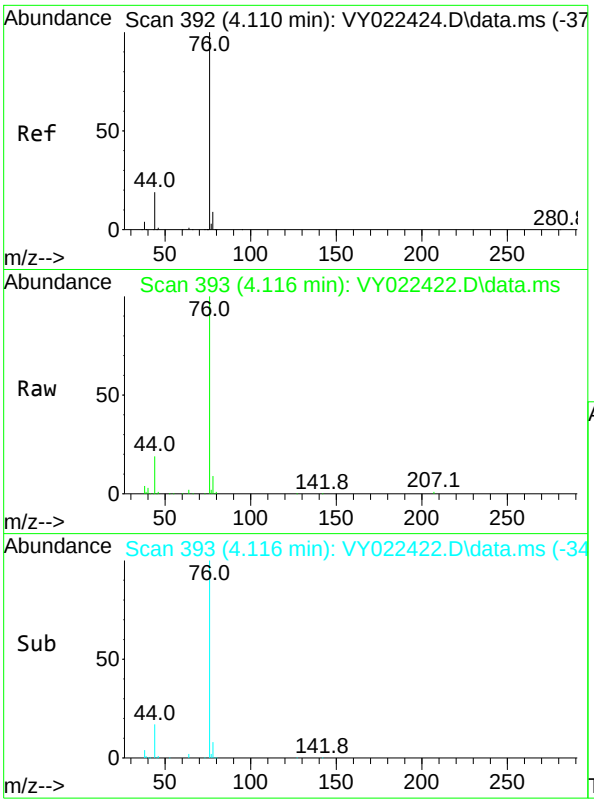


#16
Acetone
Concen: 52.221 ug/l
RT: 3.873 min Scan# 353
Delta R.T. -0.006 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 43 Resp: 23174

Ion	Ratio	Lower	Upper
43	100		
58	28.0	20.6	30.8



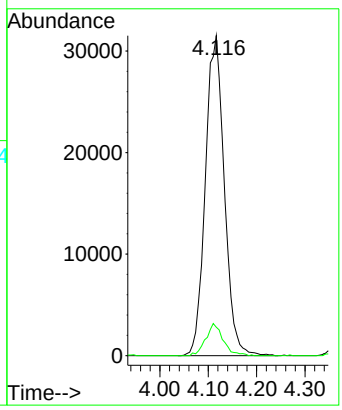


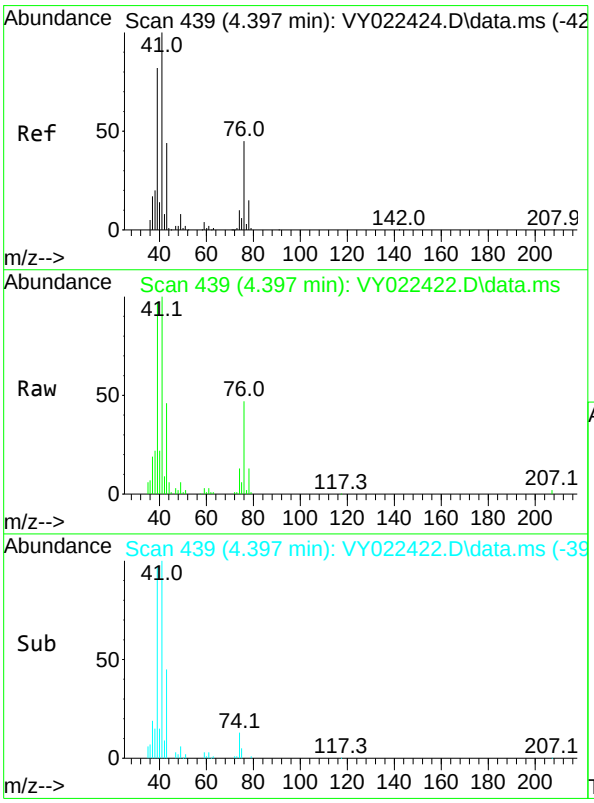
#17
Carbon Disulfide
Concen: 10.022 ug/l
RT: 4.116 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 76 Resp: 85913

Ion	Ratio	Lower	Upper
76	100		
78	8.9	7.2	10.8

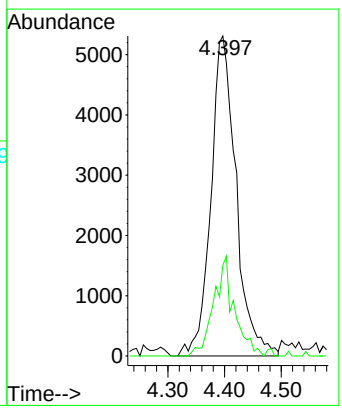


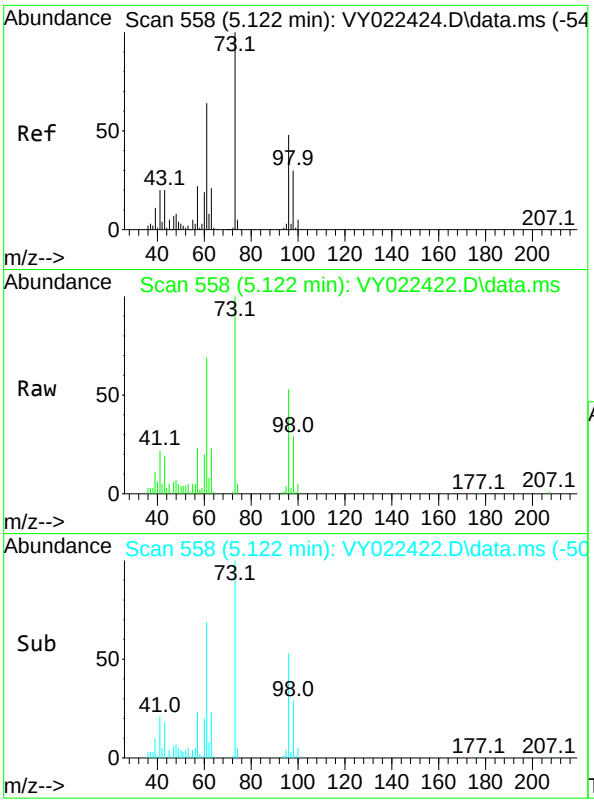


#18
Methyl Acetate
Concen: 9.841 ug/l
RT: 4.397 min Scan# 439
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 43 Resp: 16359

Ion	Ratio	Lower	Upper
43	100		
74	25.5	21.2	31.8



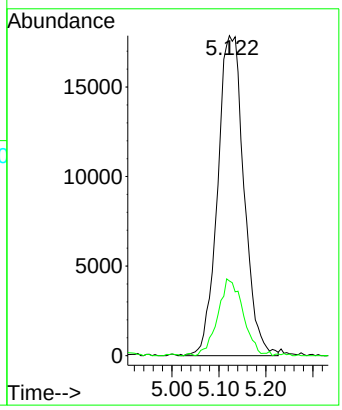


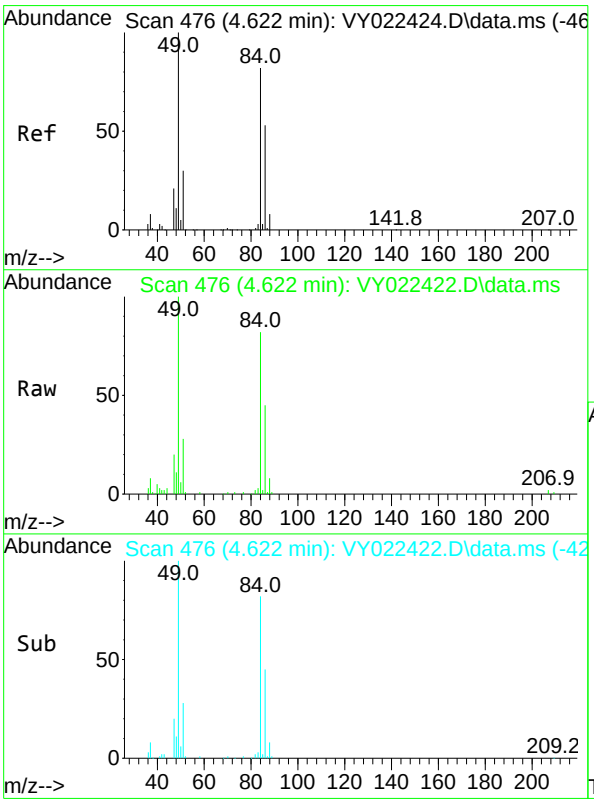
#19
Methyl tert-butyl Ether
Concen: 9.769 ug/l
RT: 5.122 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 73 Resp: 69672

Ion	Ratio	Lower	Upper
73	100		
57	23.0	17.7	26.5

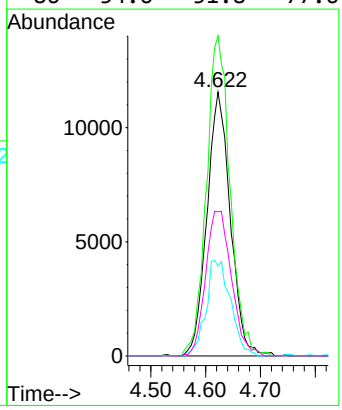


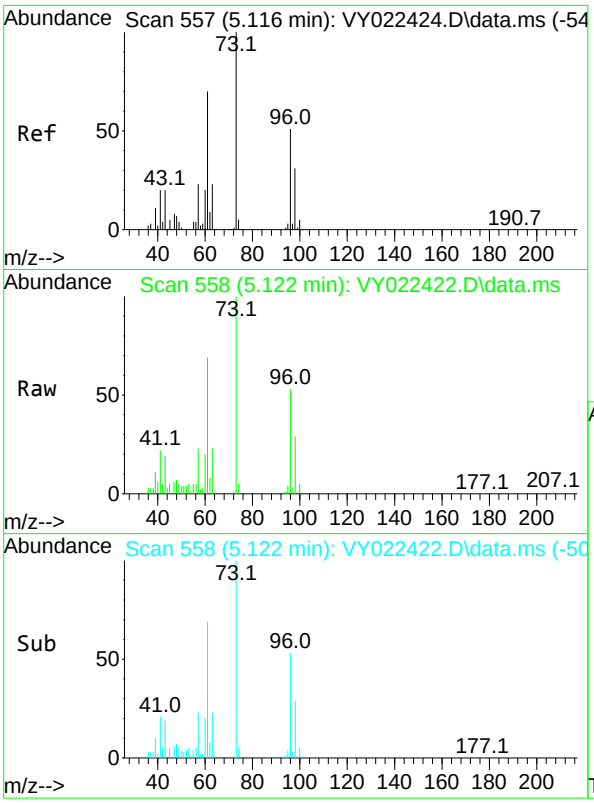


#20
Methylene Chloride
Concen: 10.946 ug/l
RT: 4.622 min Scan# 476
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 84 Resp: 34301

Ion	Ratio	Lower	Upper
84	100		
49	121.3	97.8	146.8
51	34.1	29.5	44.3
86	54.6	51.8	77.6



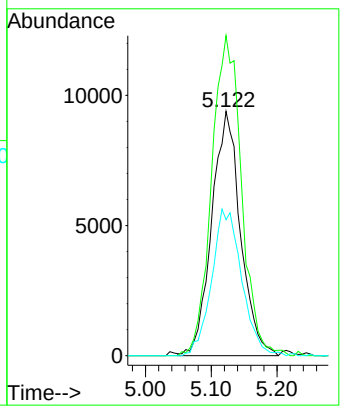


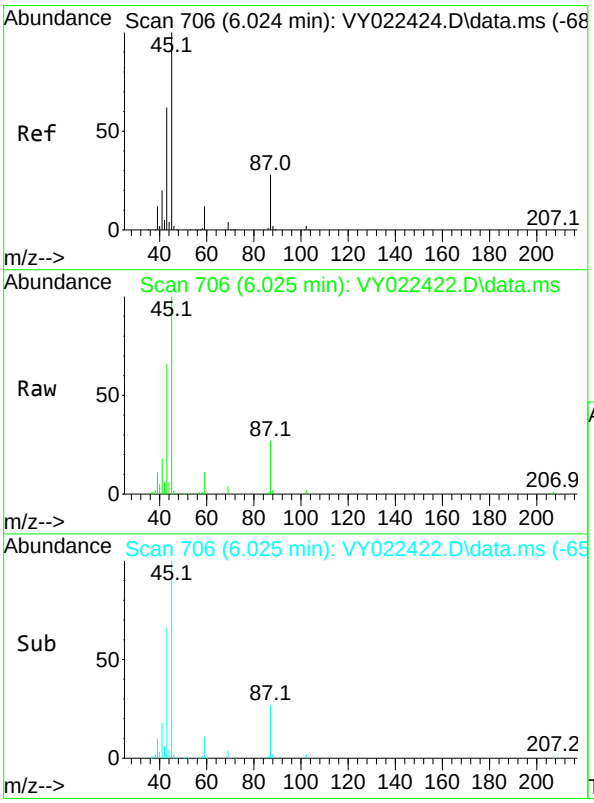
#21
trans-1,2-Dichloroethene
Concen: 9.724 ug/l
RT: 5.122 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 96 Resp: 28516

Ion	Ratio	Lower	Upper
96	100		
61	131.0	110.4	165.6
98	55.7	48.6	73.0

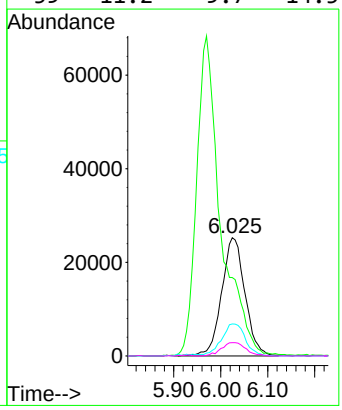


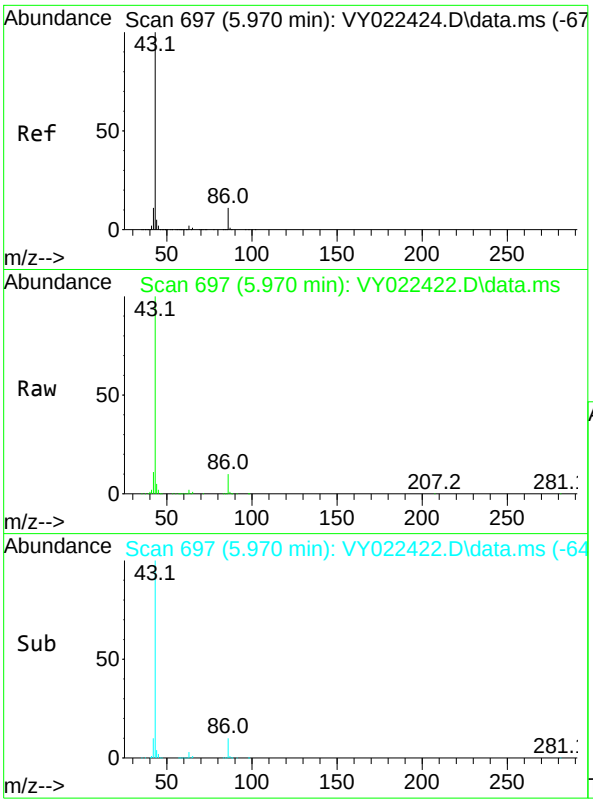


#22
Diisopropyl ether
Concen: 9.756 ug/l
RT: 6.025 min Scan# 706
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 45 Resp: 87002

Ion	Ratio	Lower	Upper
45	100		
43	65.0	49.8	74.8
87	27.1	23.0	34.6
59	11.2	9.7	14.5



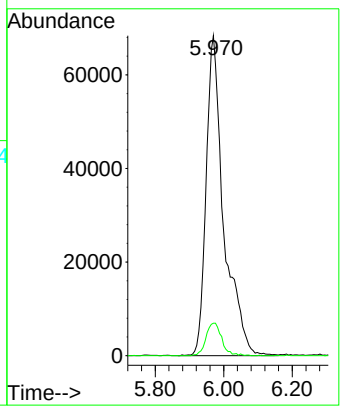


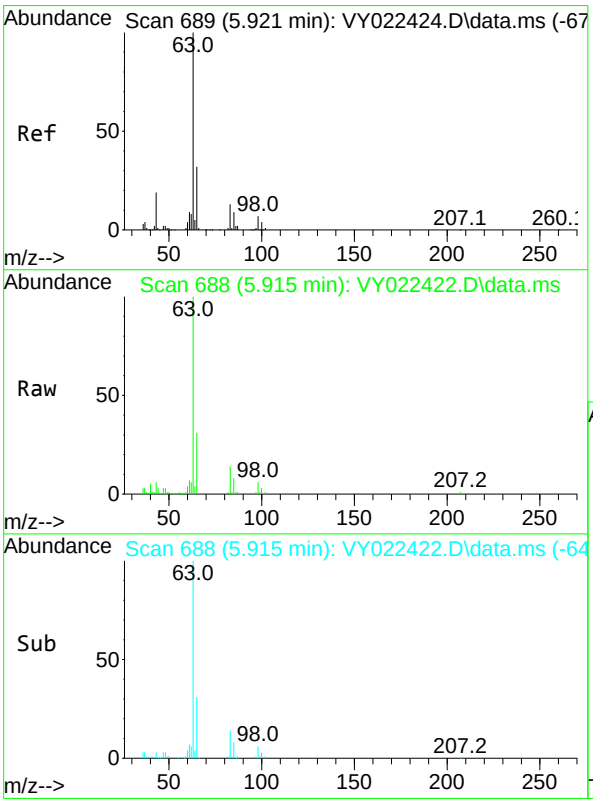
#23
Vinyl Acetate
Concen: 47.816 ug/l
RT: 5.970 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 43 Resp: 244848

Ion	Ratio	Lower	Upper
43	100		
86	10.1	8.8	13.2

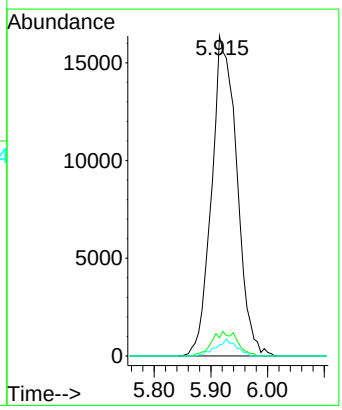


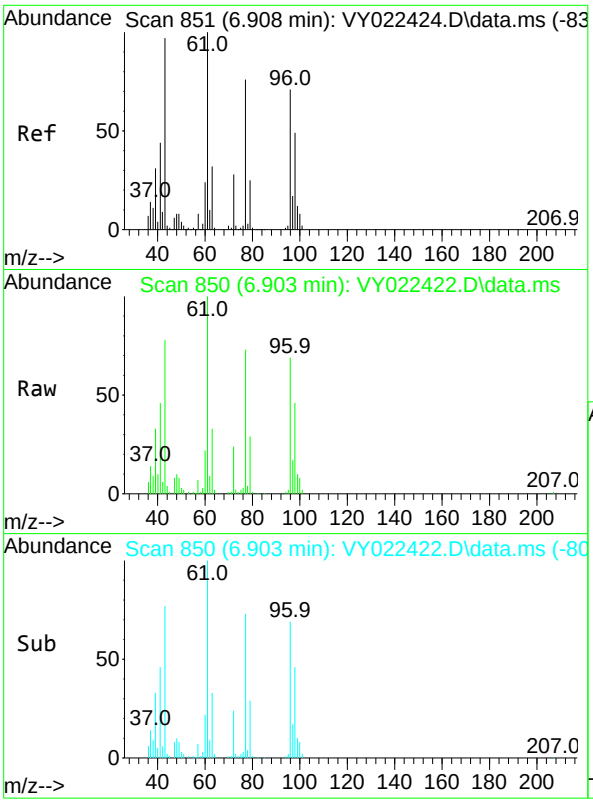


#24
1,1-Dichloroethane
Concen: 9.591 ug/l
RT: 5.915 min Scan# 688
Delta R.T. -0.006 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 63 Resp: 50541

Ion	Ratio	Lower	Upper
63	100		
98	5.7	3.5	10.5
100	3.5	2.1	6.5



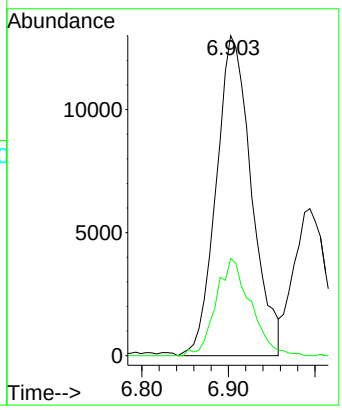


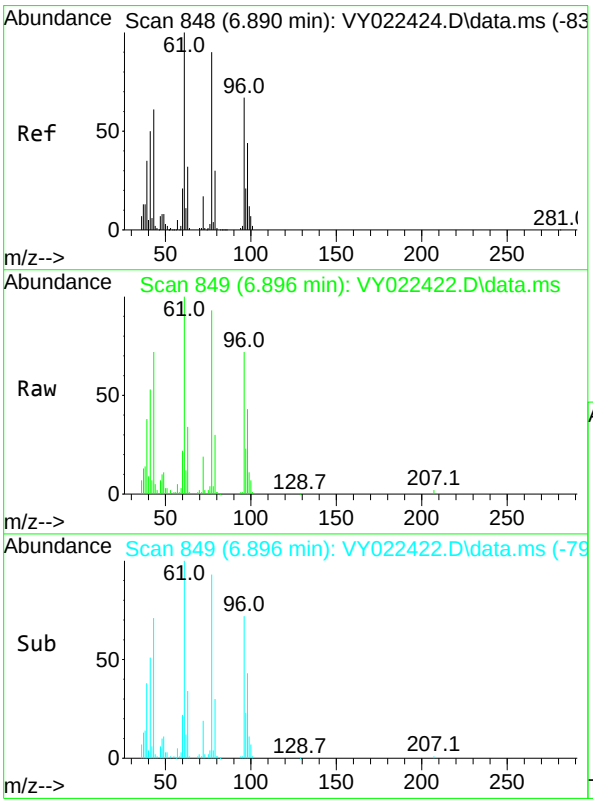
#25
2-Butanone
Concen: 49.890 ug/l
RT: 6.903 min Scan# 8
Delta R.T. -0.006 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 43 Resp: 36872

Ion	Ratio	Lower	Upper
43	100		
72	30.4	22.8	34.2

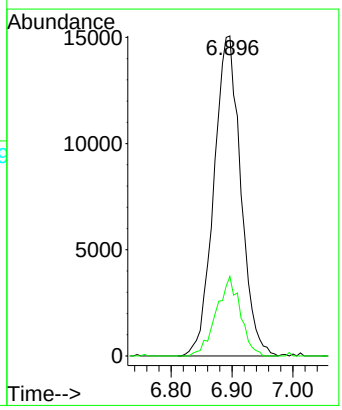


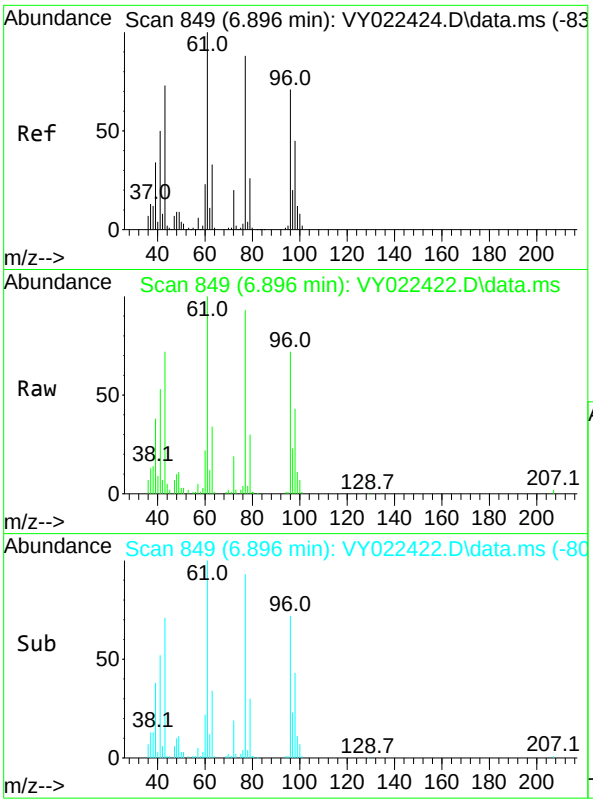


#26
2,2-Dichloropropane
Concen: 9.675 ug/l
RT: 6.896 min Scan# 849
Delta R.T. 0.006 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 77 Resp: 46164

Ion	Ratio	Lower	Upper
77	100		
97	22.3	11.6	34.7



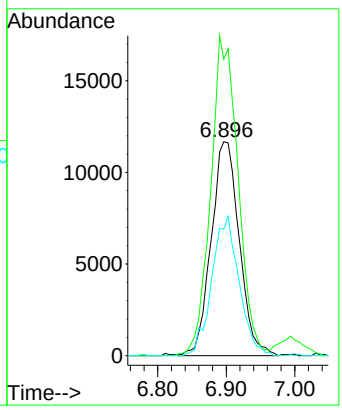


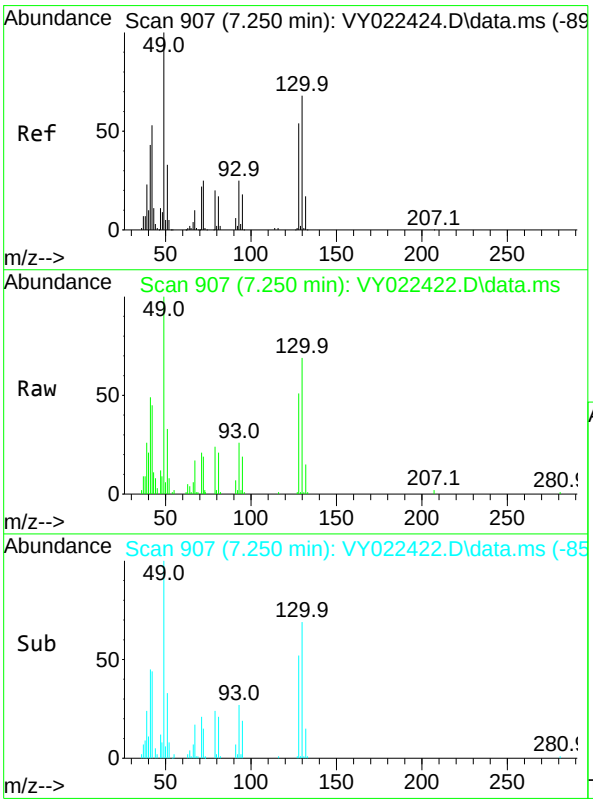
#27
cis-1,2-Dichloroethene
Concen: 9.778 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 96 Resp: 33197

Ion	Ratio	Lower	Upper
96	100		
61	145.9	0.0	292.0
98	63.4	0.0	131.0

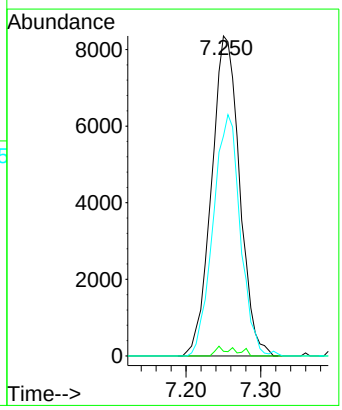


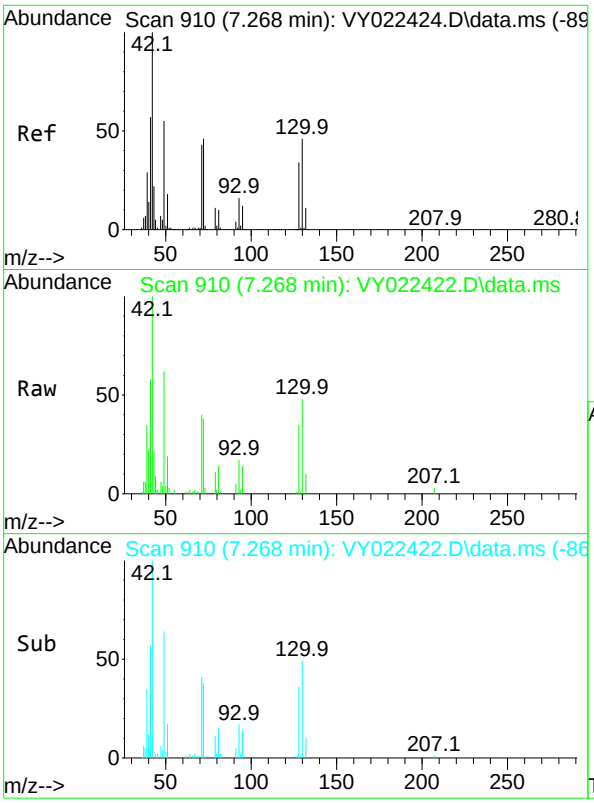


#28
Bromochloromethane
Concen: 9.927 ug/l
RT: 7.250 min Scan# 907
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 49 Resp: 21845

Ion	Ratio	Lower	Upper
49	100		
129	1.0	0.0	4.0
130	72.8	56.9	85.3



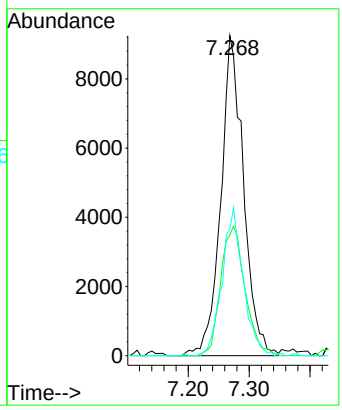


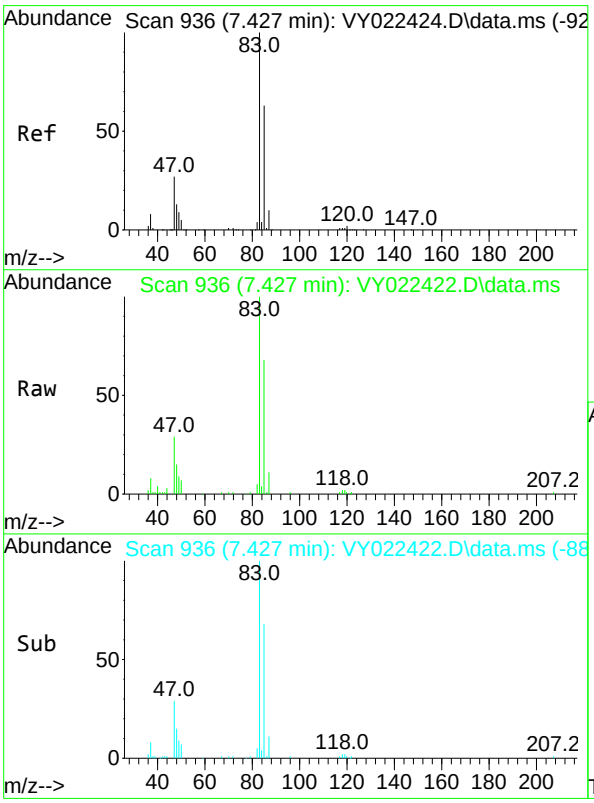
#29
Tetrahydrofuran
Concen: 48.732 ug/l
RT: 7.268 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 42 Resp: 24020

Ion	Ratio	Lower	Upper
42	100		
72	43.2	37.7	56.5
71	43.0	34.7	52.1

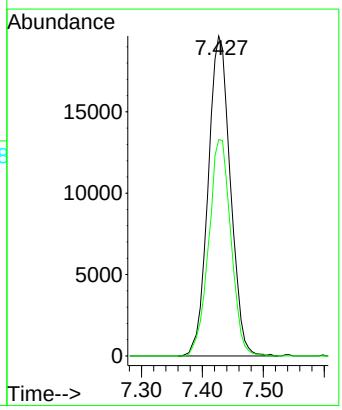


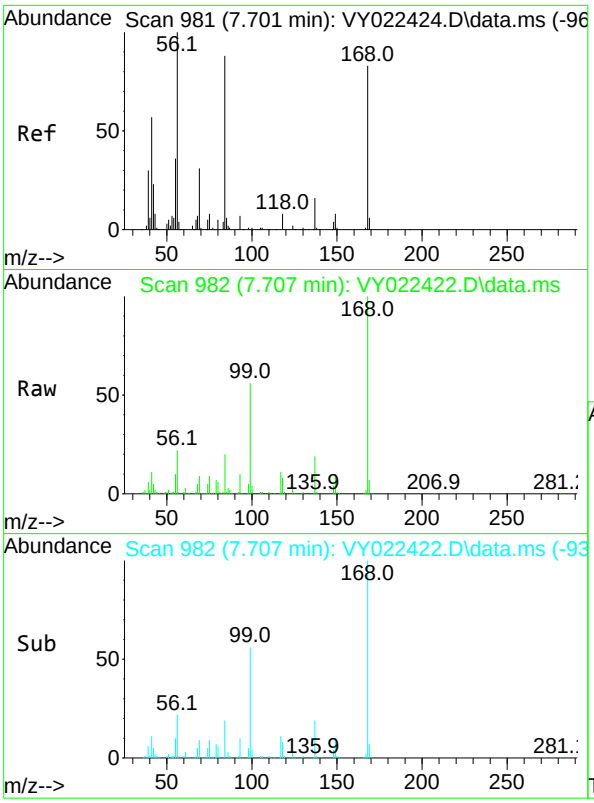


#30
Chloroform
Concen: 9.583 ug/l
RT: 7.427 min Scan# 936
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 83 Resp: 49760

Ion	Ratio	Lower	Upper
83	100		
85	67.6	50.1	75.1



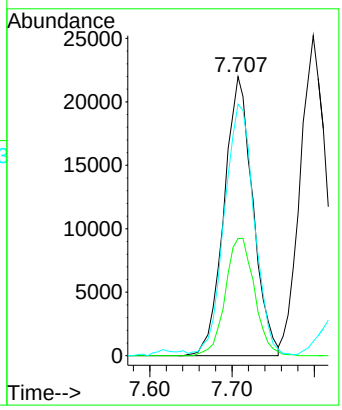


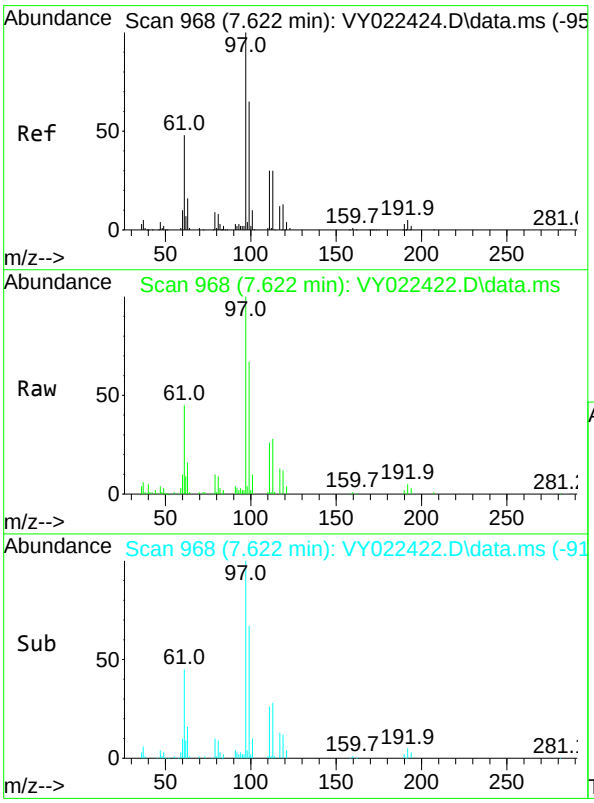
#31
Cyclohexane
Concen: 10.309 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 56 Resp: 53552

Ion	Ratio	Lower	Upper
56	100		
69	41.9	24.6	36.8#
84	88.8	70.4	105.6

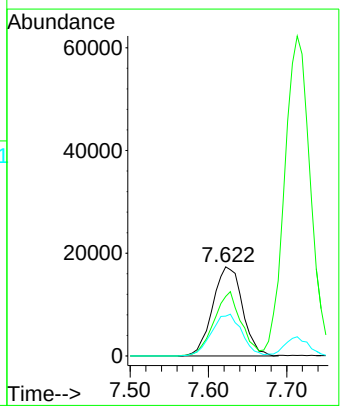


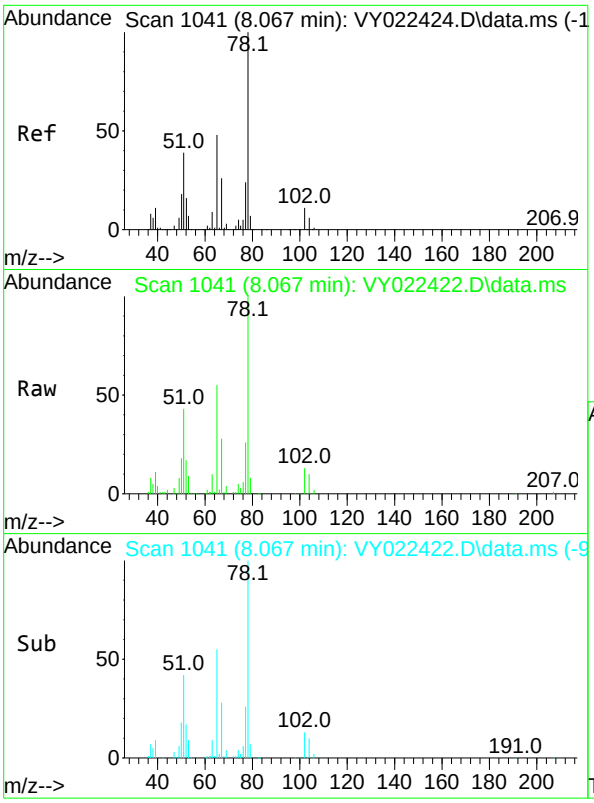


#32
1,1,1-Trichloroethane
Concen: 9.725 ug/l
RT: 7.622 min Scan# 968
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 97 Resp: 45829

Ion	Ratio	Lower	Upper
97	100		
99	65.5	51.3	76.9
61	47.6	37.3	55.9



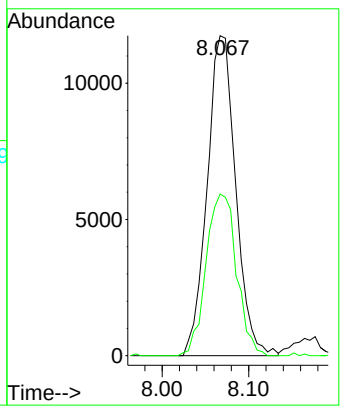


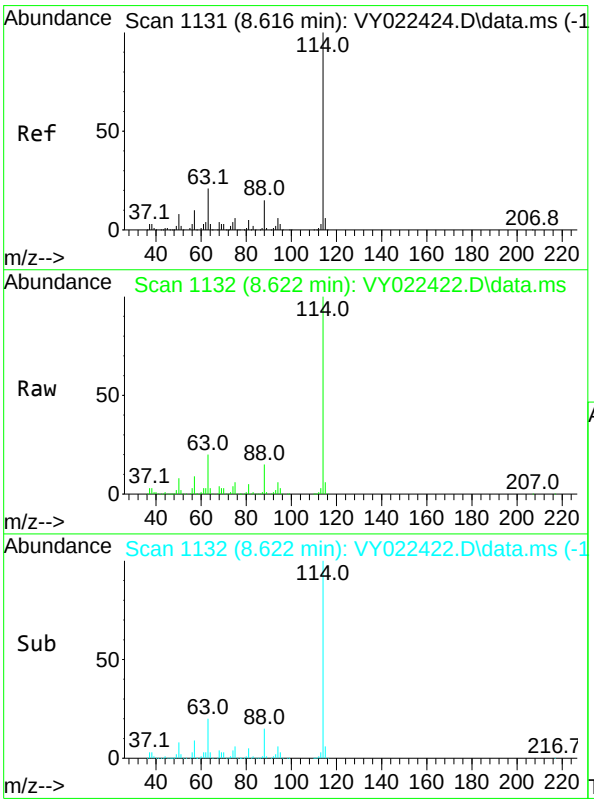
#33
1,2-Dichloroethane-d4
Concen: 9.971 ug/l
RT: 8.067 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 65 Resp: 26927

Ion	Ratio	Lower	Upper
65	100		
67	53.8	0.0	104.4

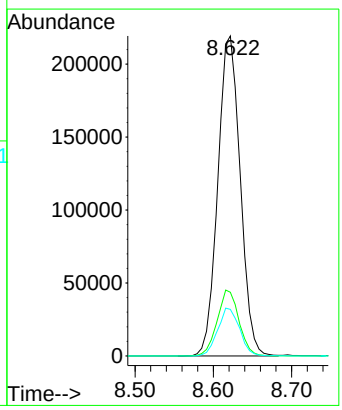


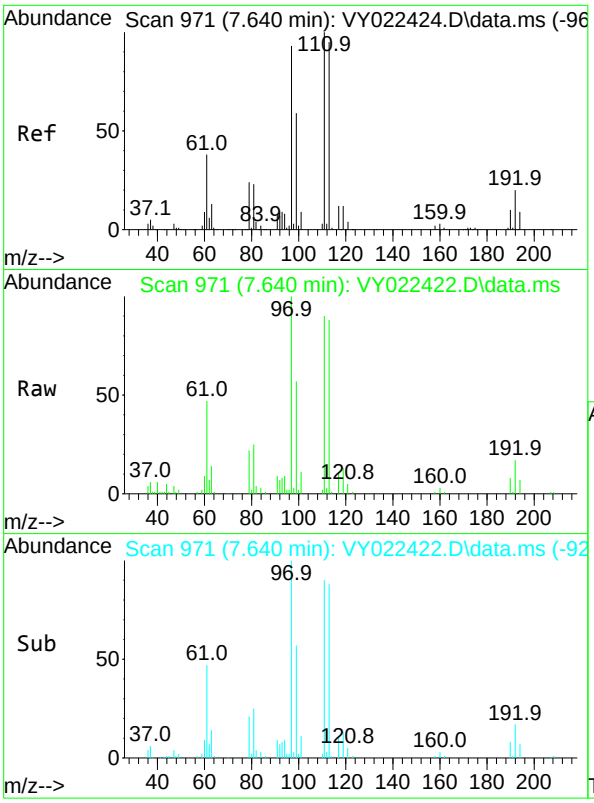


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.622 min Scan# 1132
Delta R.T. 0.006 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion:114 Resp: 436685

Ion	Ratio	Lower	Upper
114	100		
63	19.9	0.0	42.6
88	14.5	0.0	29.4



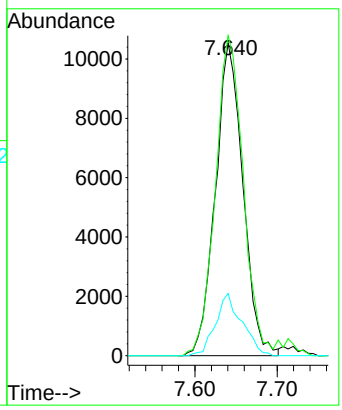


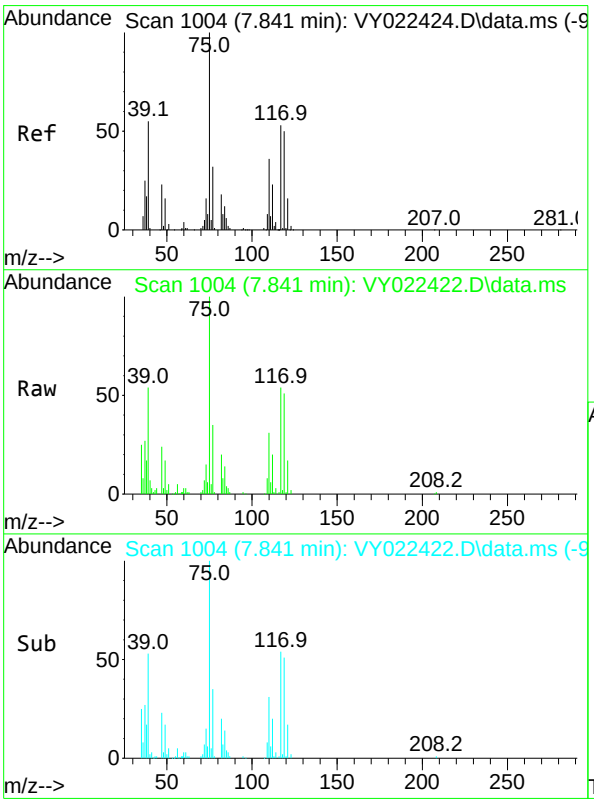
#35
Dibromofluoromethane
Concen: 9.584 ug/l
RT: 7.640 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion:113 Resp: 24509

Ion	Ratio	Lower	Upper
113	100		
111	103.6	82.4	123.6
192	19.1	15.2	22.8

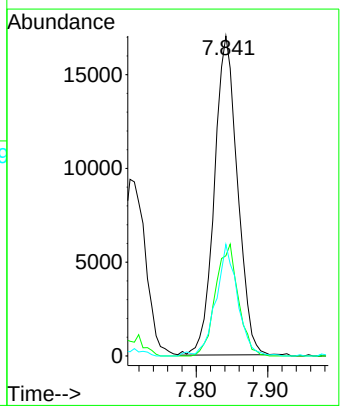


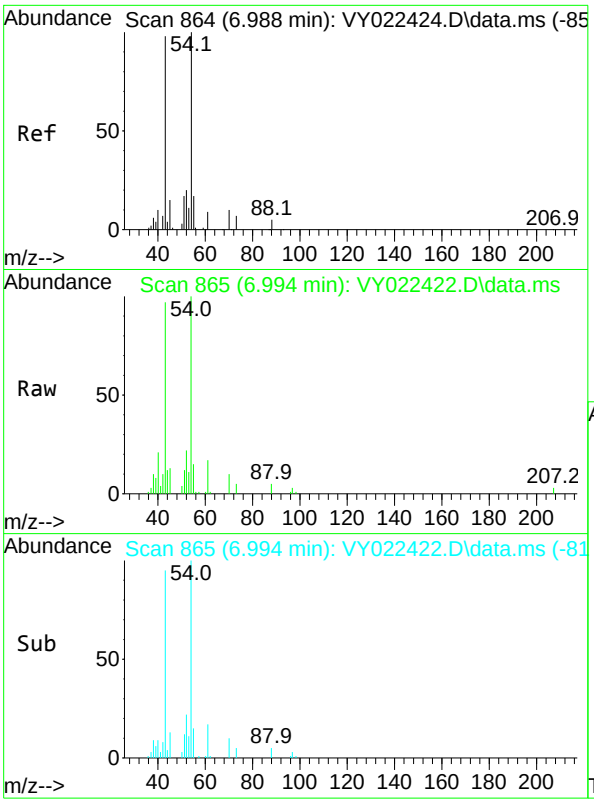


#36
1,1-Dichloropropene
Concen: 9.404 ug/l
RT: 7.841 min Scan# 1004
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 75 Resp: 38161

Ion	Ratio	Lower	Upper
75	100		
110	34.5	17.1	51.2
77	33.1	25.1	37.7



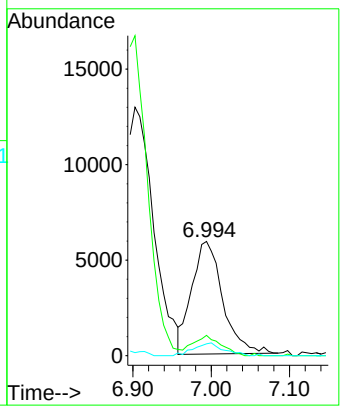


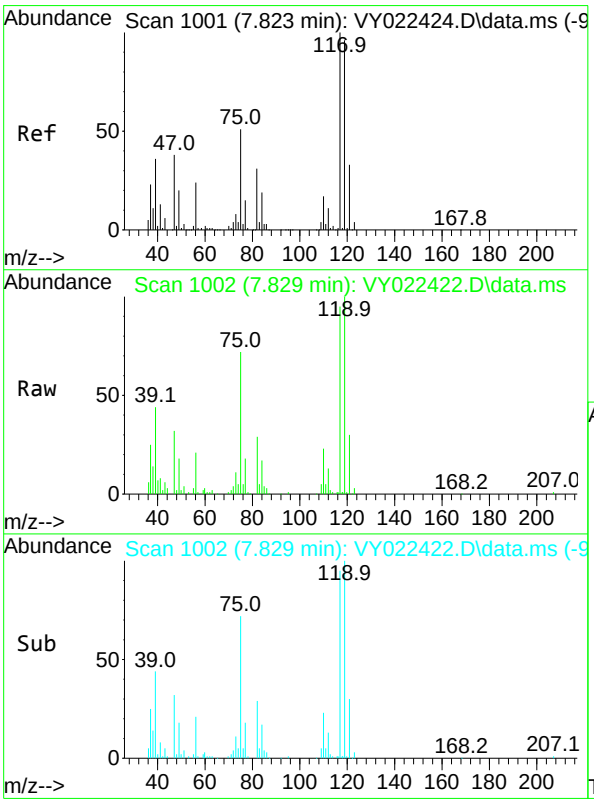
#37
Ethyl Acetate
Concen: 9.406 ug/l
RT: 6.994 min Scan# 8
Delta R.T. 0.006 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 43 Resp: 16222

Ion	Ratio	Lower	Upper
43	100		
61	15.9	11.7	17.5
70	10.8	7.8	11.6

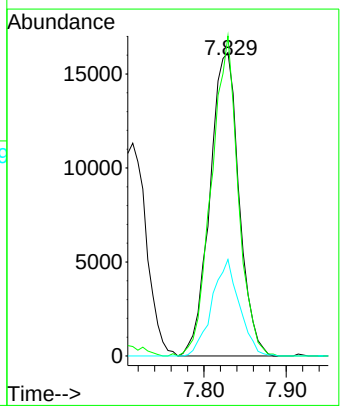


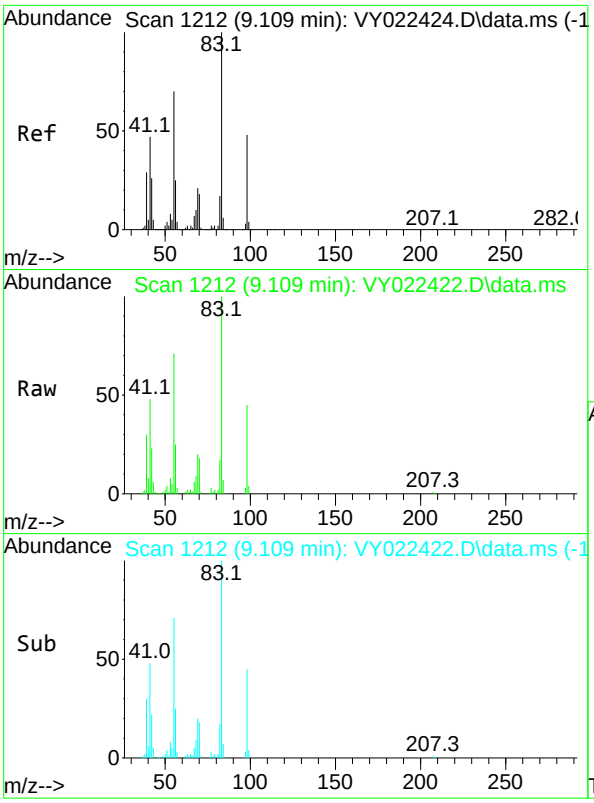


#38
Carbon Tetrachloride
Concen: 9.414 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. 0.006 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion:117 Resp: 39797

Ion	Ratio	Lower	Upper
117	100		
119	105.5	76.3	114.5
121	31.8	26.1	39.1



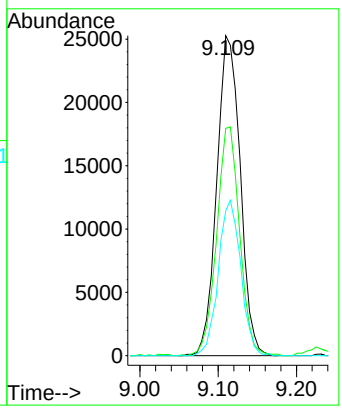


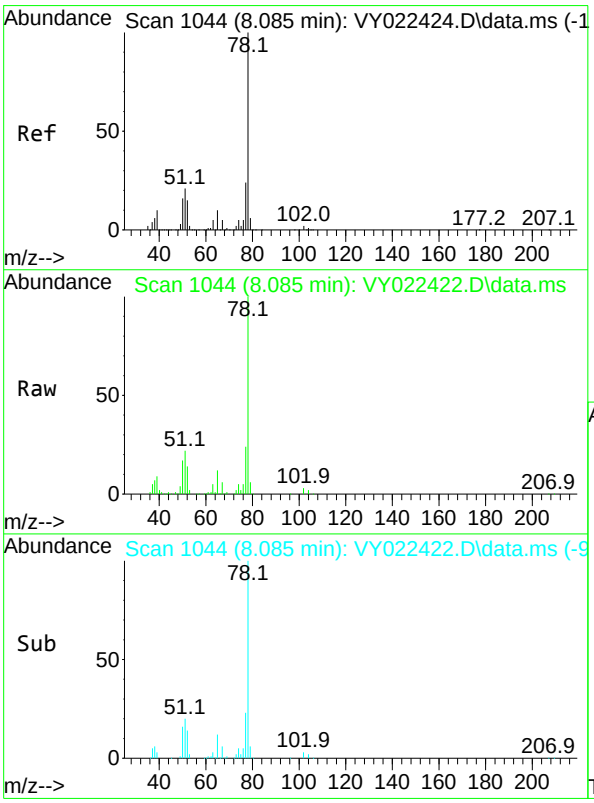
#39
Methylcyclohexane
Concen: 9.751 ug/l
RT: 9.109 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 83 Resp: 52603

Ion	Ratio	Lower	Upper
83	100		
55	71.0	56.2	84.2
98	45.2	38.4	57.6

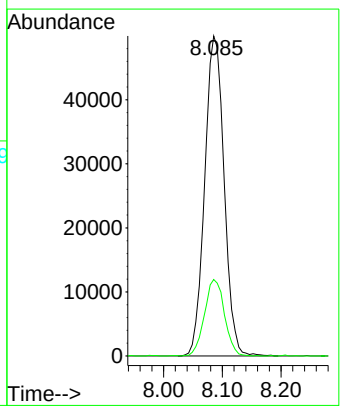


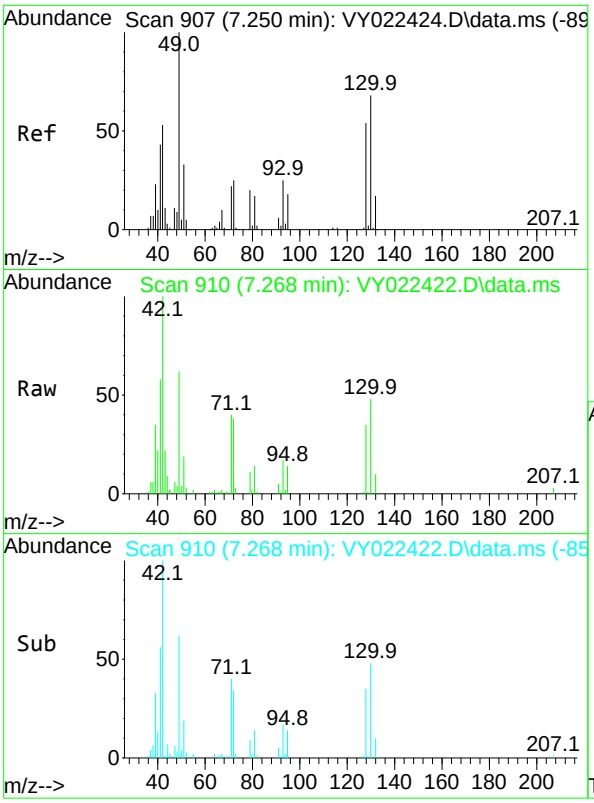


#40
Benzene
Concen: 9.489 ug/l
RT: 8.085 min Scan# 1044
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 78 Resp: 114576

Ion	Ratio	Lower	Upper
78	100		
77	23.9	19.4	29.2



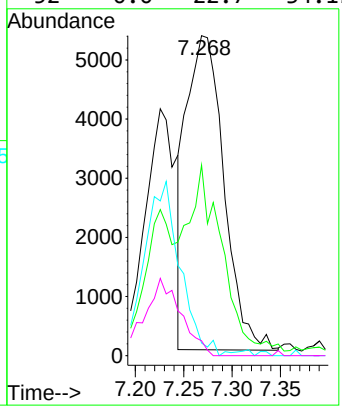


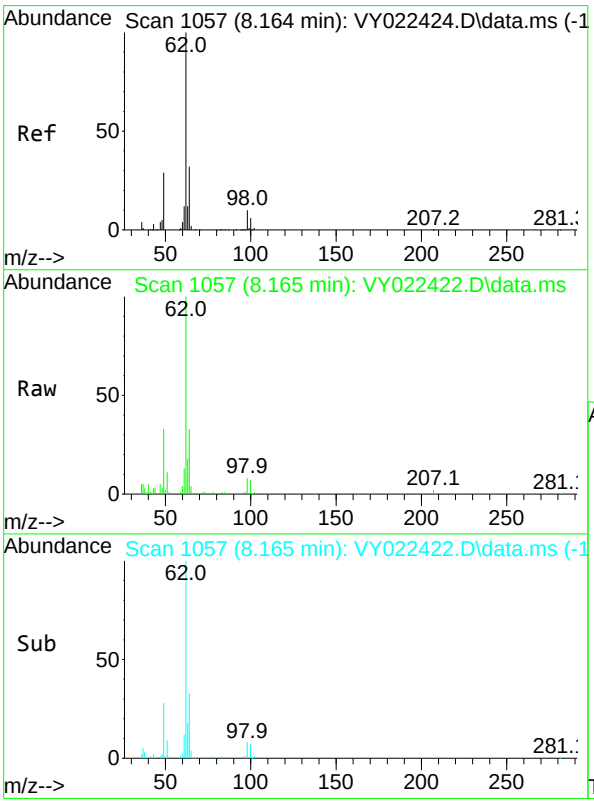
#41
Methacrylonitrile
Concen: 13.727 ug/l
RT: 7.268 min Scan# 9
Delta R.T. 0.018 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 41 Resp: 14369

Ion	Ratio	Lower	Upper
41	100		
39	52.9	40.4	60.6
67	0.0	53.0	79.4#
52	0.0	22.7	34.1#

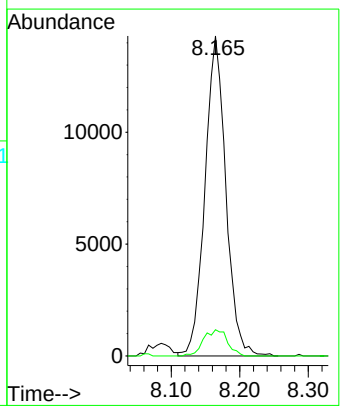


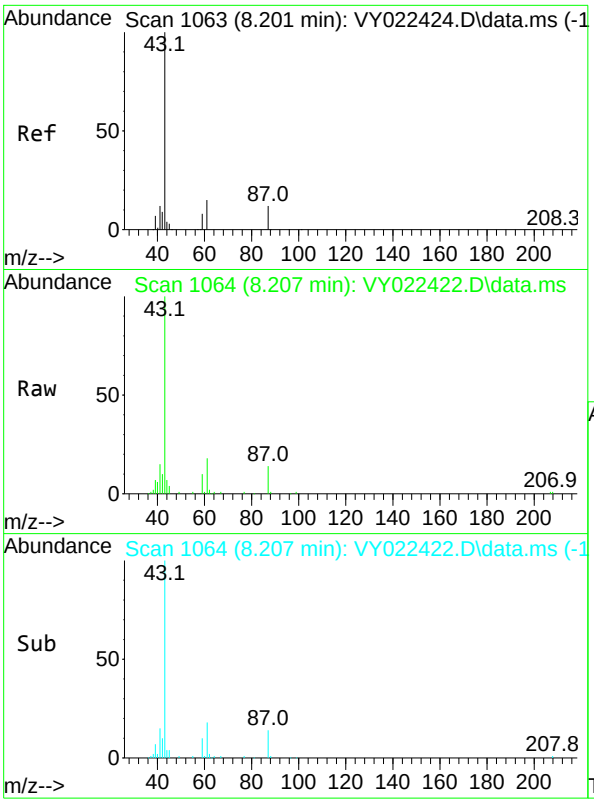


#42
1,2-Dichloroethane
Concen: 9.517 ug/l
RT: 8.165 min Scan# 1057
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 62 Resp: 30350

Ion	Ratio	Lower	Upper
62	100		
98	9.4	0.0	18.4



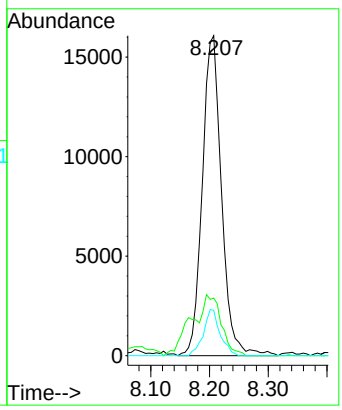


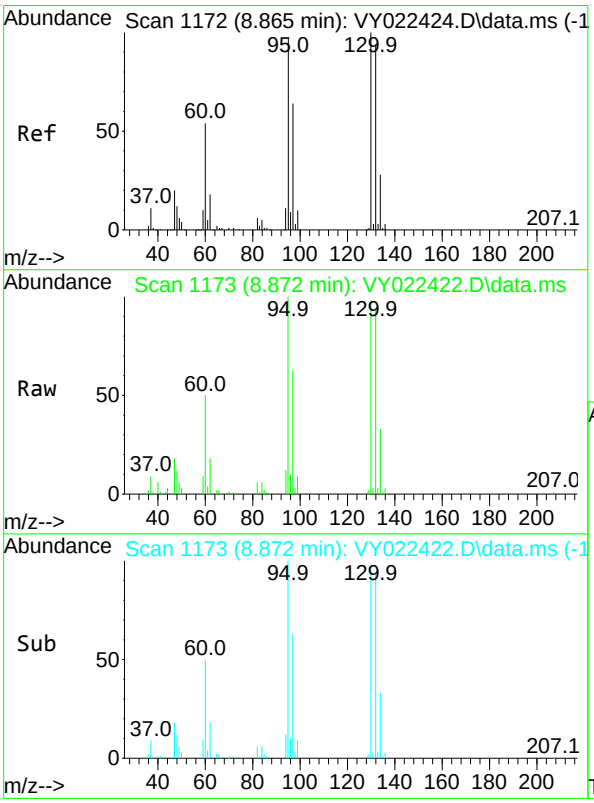
#43
Isopropyl Acetate
Concen: 9.707 ug/l
RT: 8.207 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 43 Resp: 36584

Ion	Ratio	Lower	Upper
43	100		
61	18.0	15.4	23.0
87	12.5	10.6	15.8

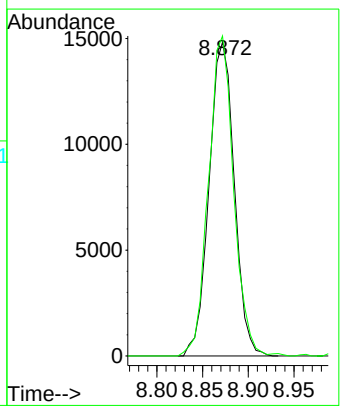


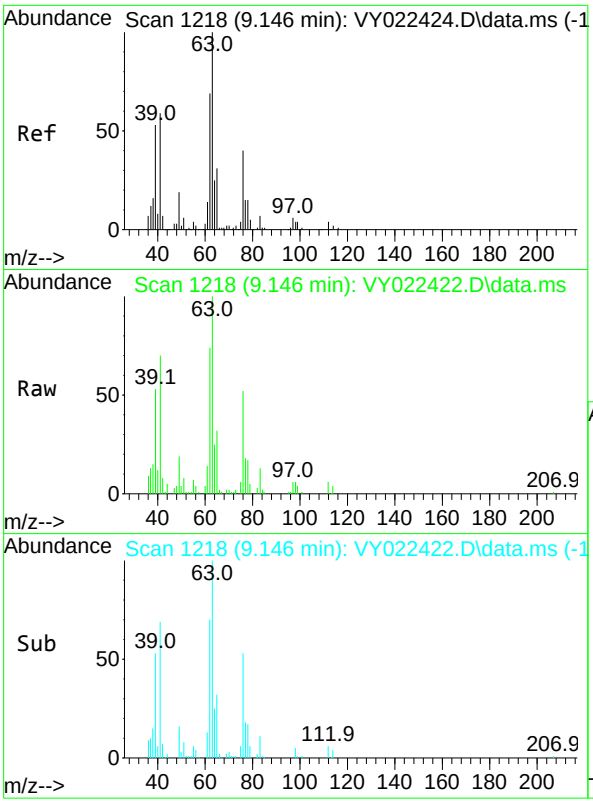


#44
Trichloroethene
Concen: 9.516 ug/l
RT: 8.872 min Scan# 1173
Delta R.T. 0.006 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion:130 Resp: 28407

Ion	Ratio	Lower	Upper
130	100		
95	102.0	0.0	194.8



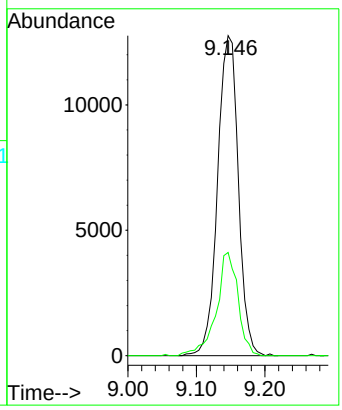


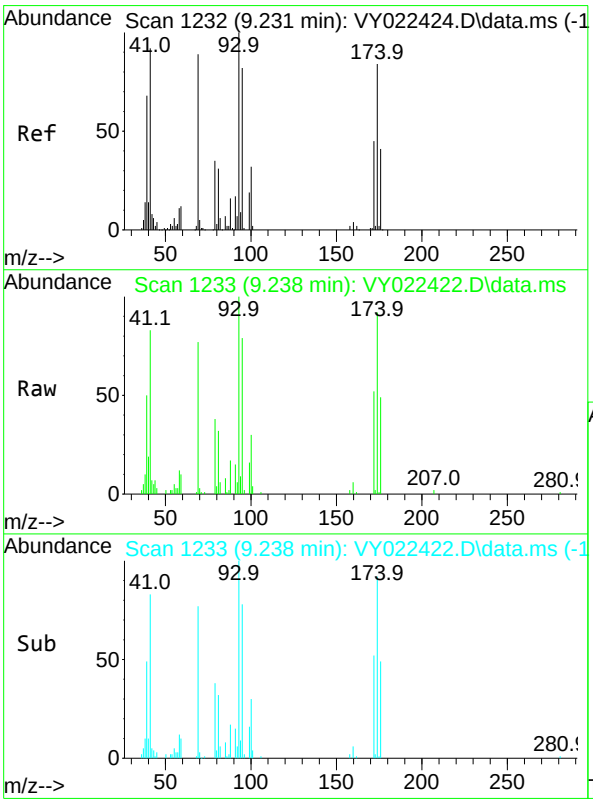
#45
1,2-Dichloropropane
Concen: 9.447 ug/l
RT: 9.146 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 63 Resp: 26802

Ion	Ratio	Lower	Upper
63	100		
65	32.3	25.1	37.7

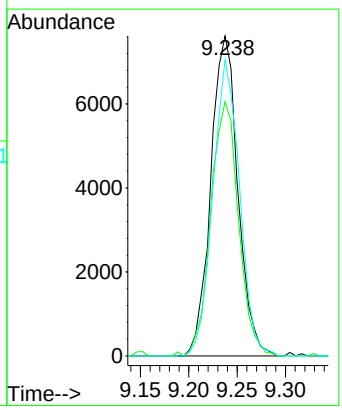


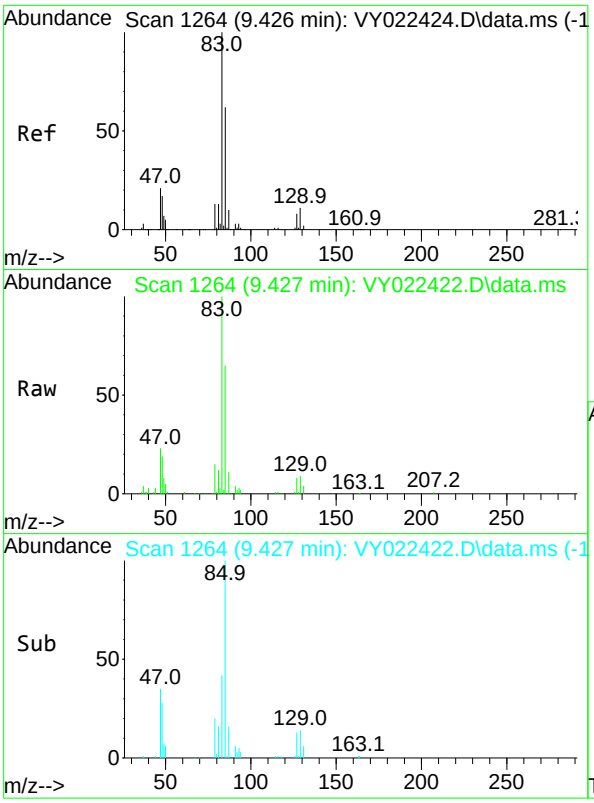


#46
Dibromomethane
Concen: 9.351 ug/l
RT: 9.238 min Scan# 1233
Delta R.T. 0.006 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 93 Resp: 14820

Ion	Ratio	Lower	Upper
93	100		
95	81.8	66.2	99.2
174	91.3	71.1	106.7



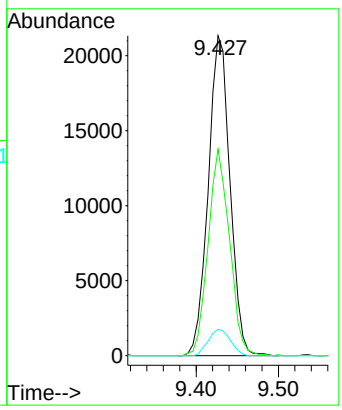


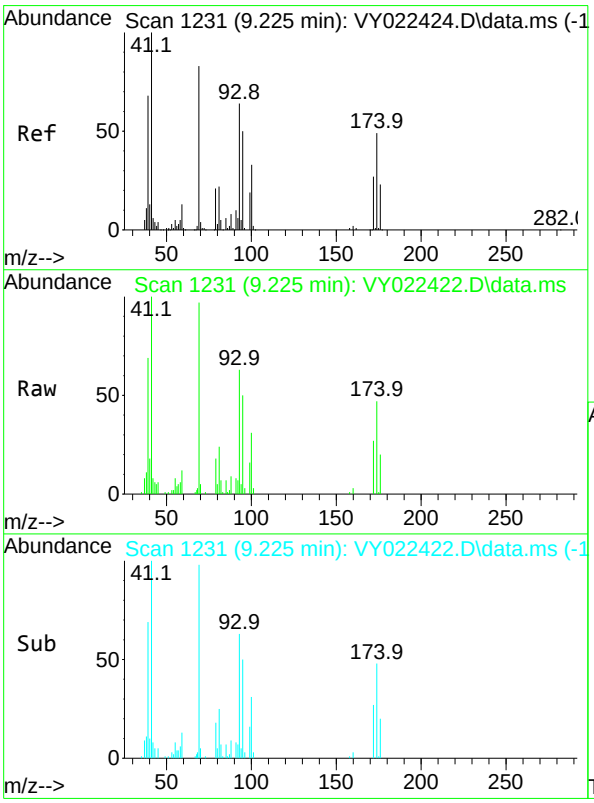
#47
Bromodichloromethane
Concen: 9.620 ug/l
RT: 9.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 83 Resp: 39207

Ion	Ratio	Lower	Upper
83	100		
85	64.6	49.8	74.6
127	8.3	6.6	9.8

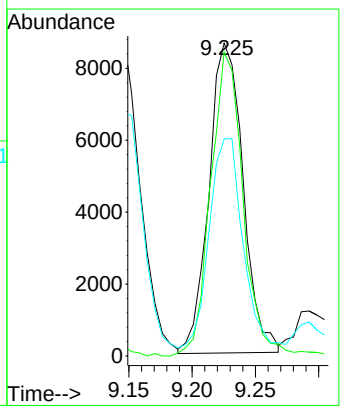


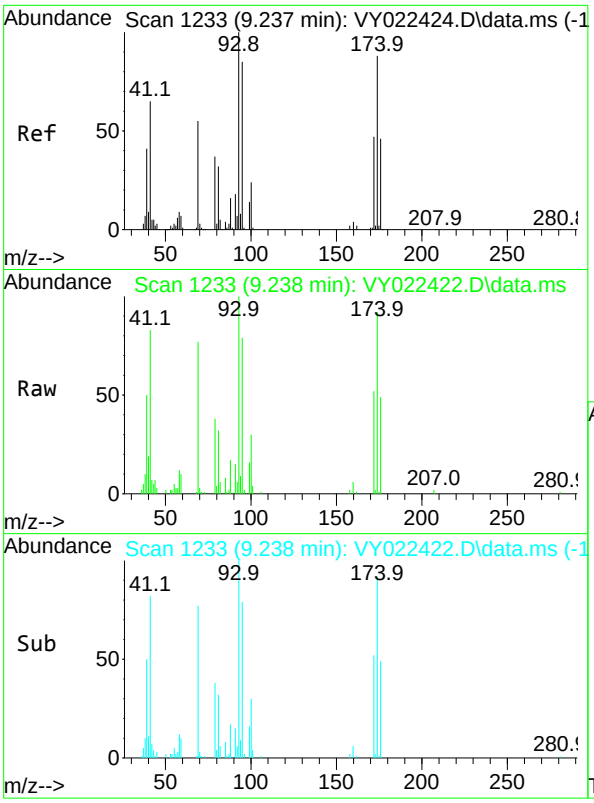


#48
Methyl methacrylate
Concen: 9.239 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 41 Resp: 16163

Ion	Ratio	Lower	Upper
41	100		
69	93.8	70.3	105.5
39	67.0	55.4	83.0



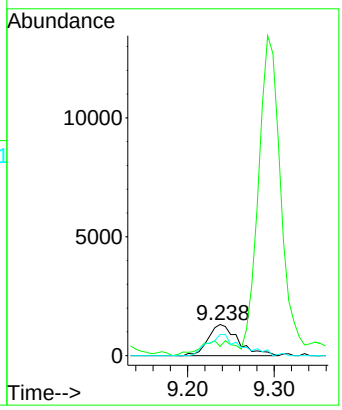


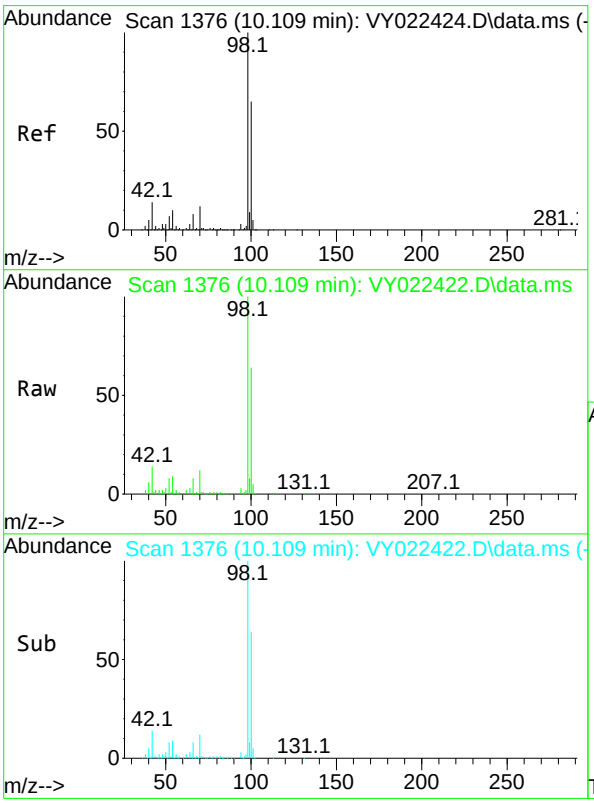
#49
1,4-Dioxane
Concen: 181.086 ug/l
RT: 9.238 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 88 Resp: 3170

Ion	Ratio	Lower	Upper
88	100		
43	33.0	26.9	40.3
58	74.4	55.8	83.6

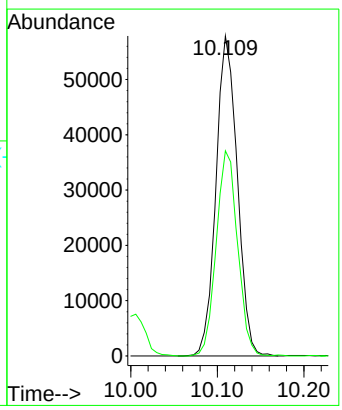


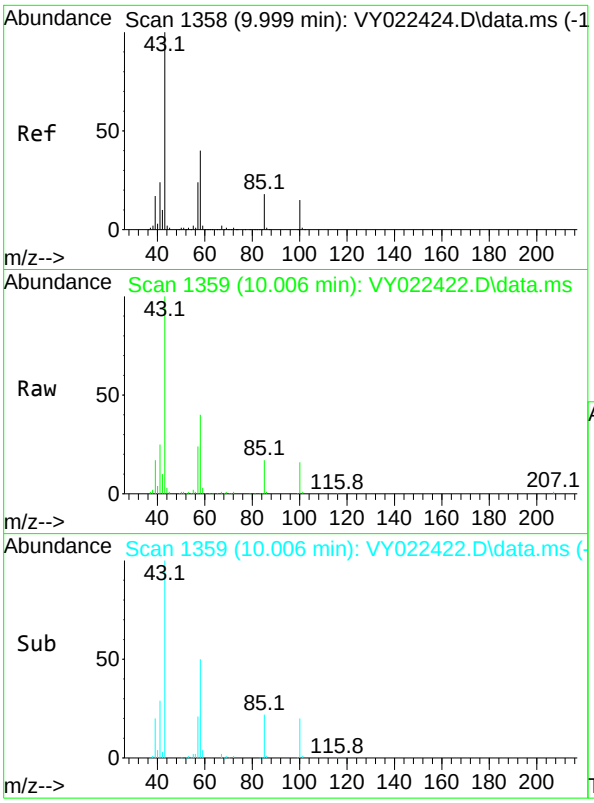


#50
Toluene-d8
Concen: 9.493 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 98 Resp: 98965

Ion	Ratio	Lower	Upper
98	100		
100	64.1	52.2	78.2



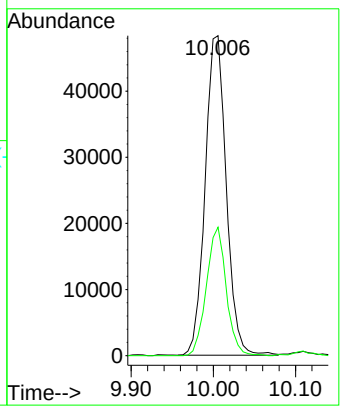


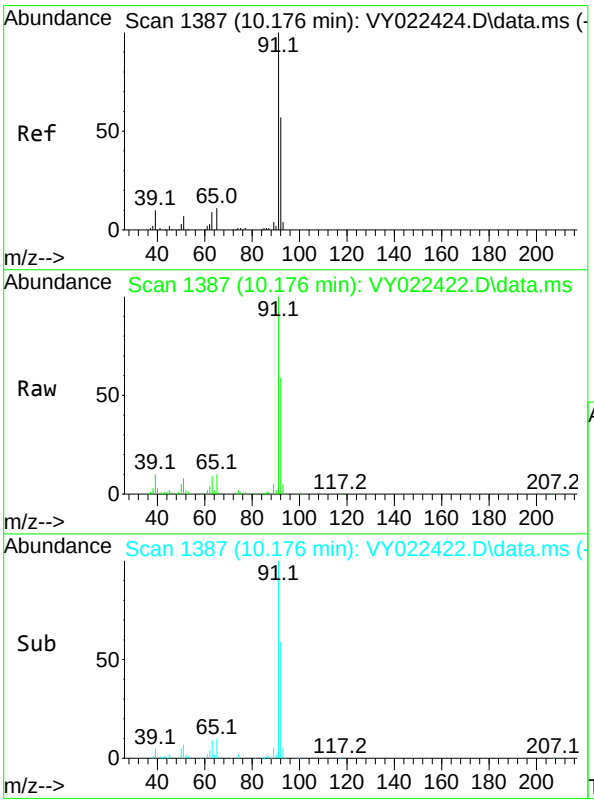
#51
4-Methyl-2-Pentanone
Concen: 46.358 ug/l
RT: 10.006 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 43 Resp: 86201

Ion	Ratio	Lower	Upper
43	100		
58	37.8	31.2	46.8

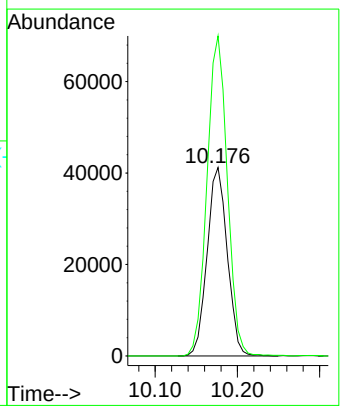


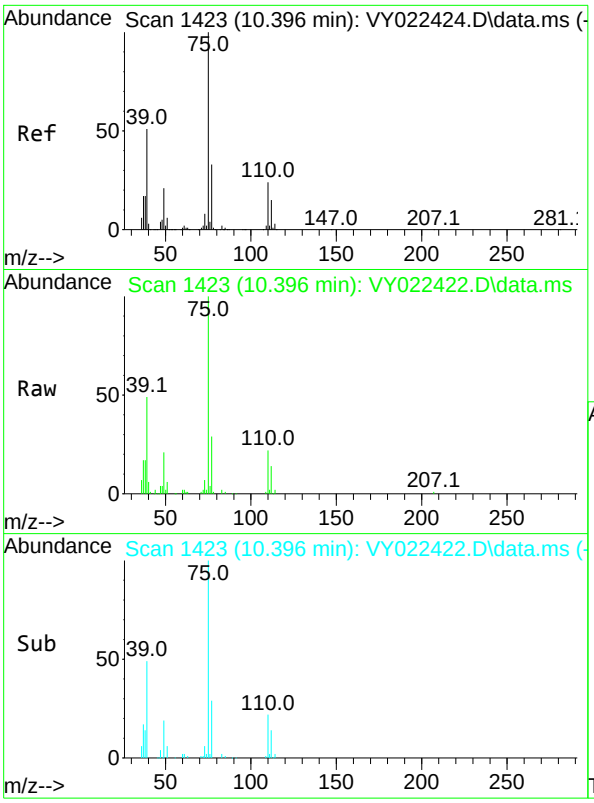


#52
Toluene
Concen: 9.320 ug/l
RT: 10.176 min Scan# 1387
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 92 Resp: 70294

Ion	Ratio	Lower	Upper
92	100		
91	171.4	139.8	209.6



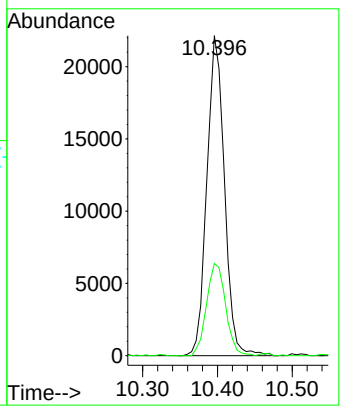


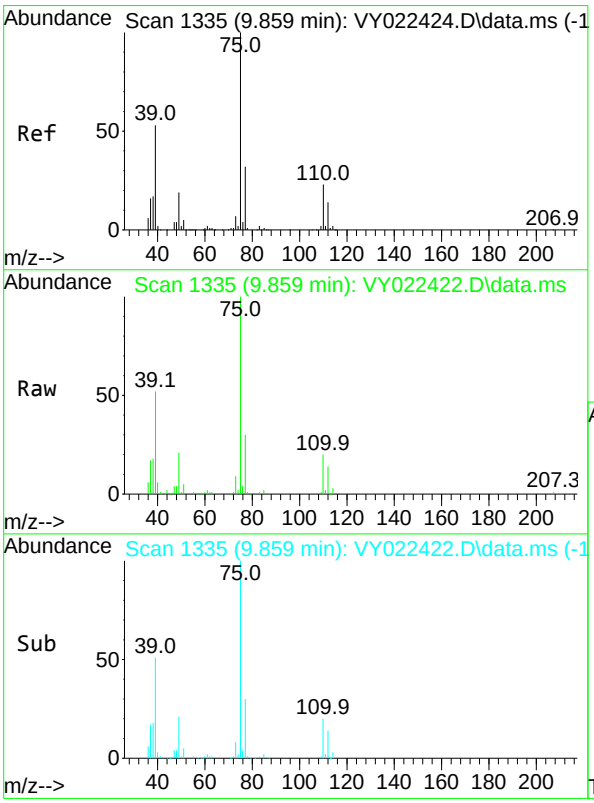
#53
t-1,3-Dichloropropene
Concen: 9.528 ug/l
RT: 10.396 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 75 Resp: 36171

Ion	Ratio	Lower	Upper
75	100		
77	28.8	26.2	39.2

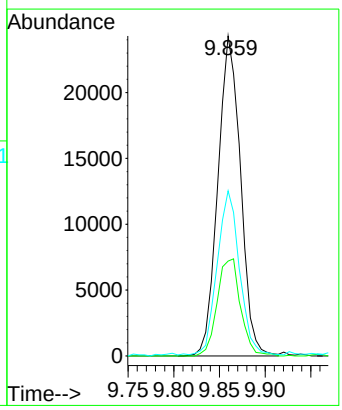


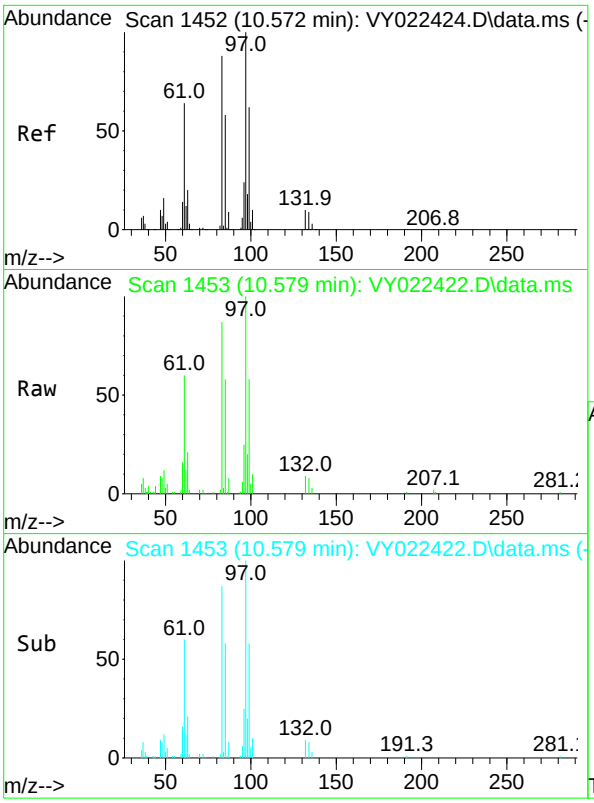


#54
cis-1,3-Dichloropropene
Concen: 9.403 ug/l
RT: 9.859 min Scan# 1335
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 75 Resp: 41945

Ion	Ratio	Lower	Upper
75	100		
77	29.6	25.4	38.2
39	51.3	42.5	63.7



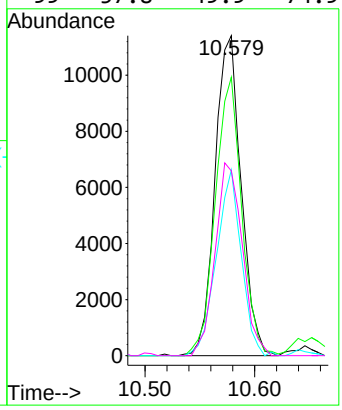


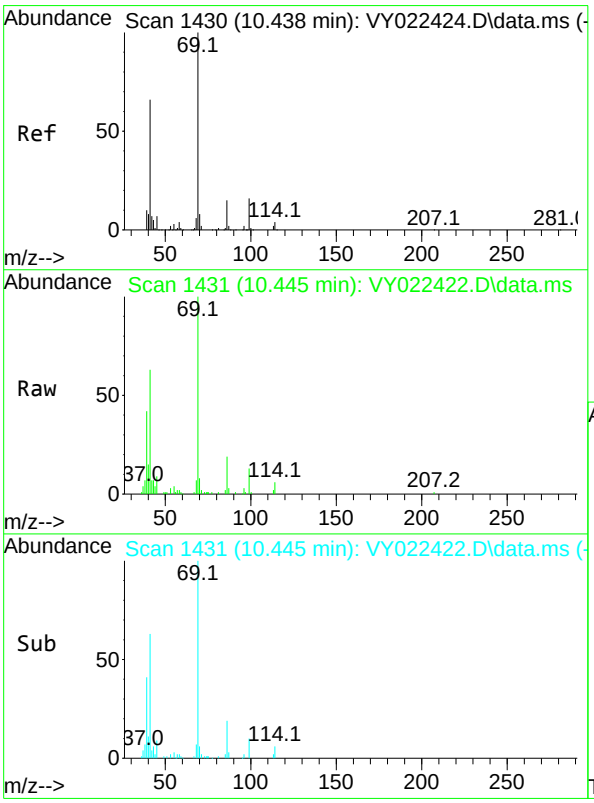
#55
1,1,2-Trichloroethane
Concen: 9.423 ug/l
RT: 10.579 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 97 Resp: 18882

Ion	Ratio	Lower	Upper
97	100		
83	87.0	70.2	105.4
85	58.0	46.1	69.1
99	57.8	49.9	74.9

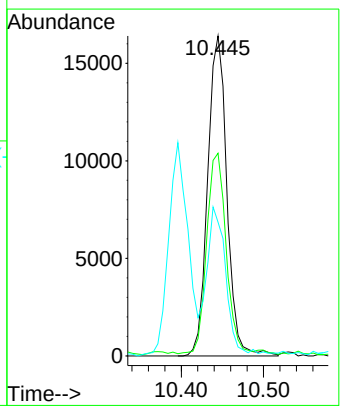


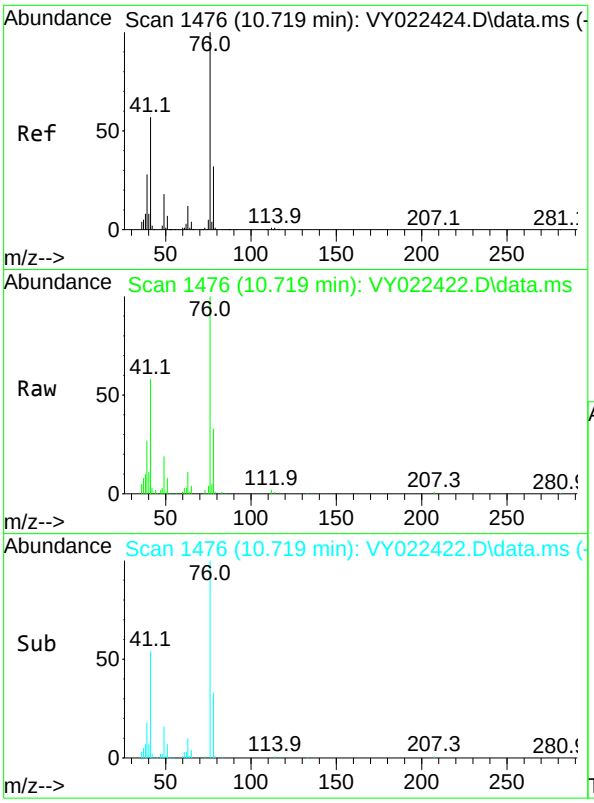


#56
Ethyl methacrylate
Concen: 9.270 ug/l
RT: 10.445 min Scan# 1431
Delta R.T. 0.006 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 69 Resp: 26658

Ion	Ratio	Lower	Upper
69	100		
41	63.1	51.2	76.8
39	44.7	35.2	52.8



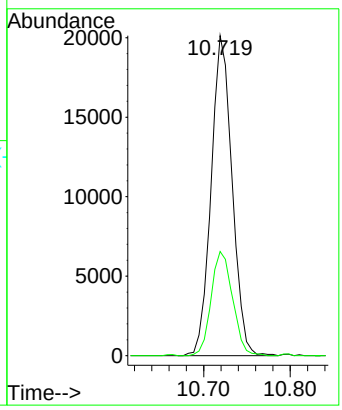


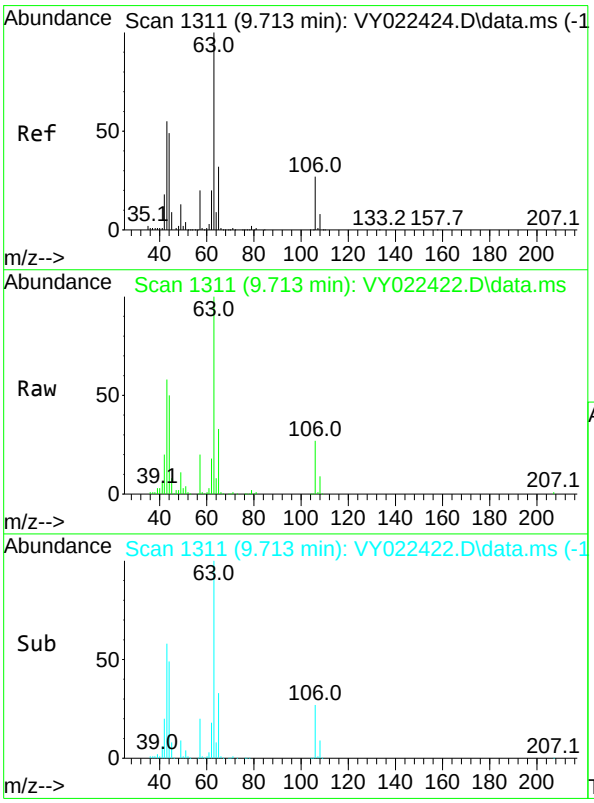
#57
1,3-Dichloropropane
Concen: 9.587 ug/l
RT: 10.719 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 76 Resp: 33854

Ion	Ratio	Lower	Upper
76	100		
78	33.3	25.8	38.8

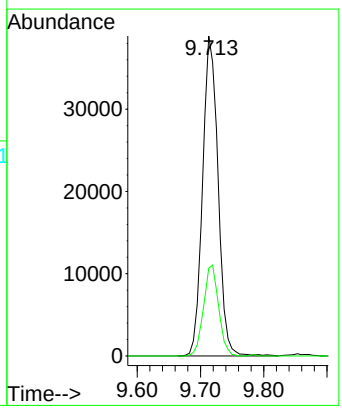


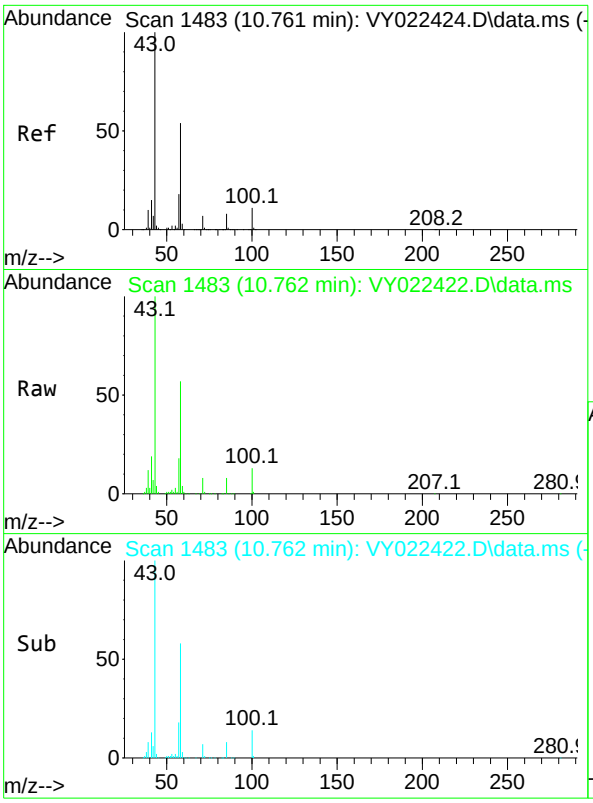


#58
2-Chloroethyl Vinyl ether
Concen: 46.196 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 63 Resp: 66205

Ion	Ratio	Lower	Upper
63	100		
106	27.7	22.2	33.2



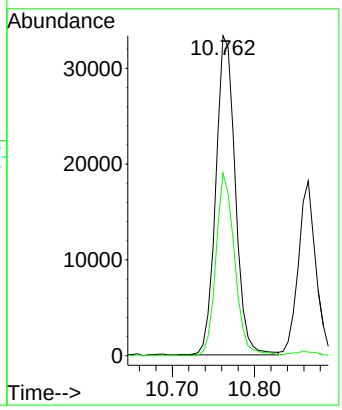


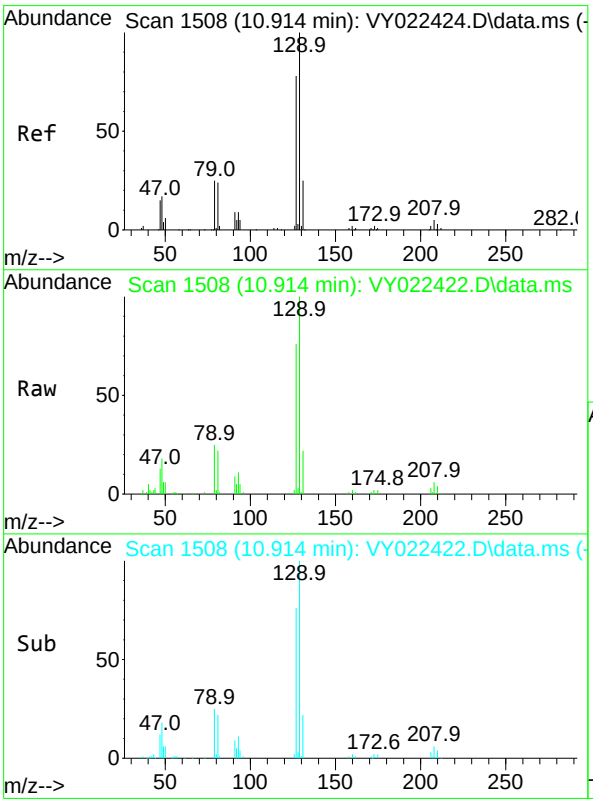
#59
2-Hexanone
Concen: 44.963 ug/l
RT: 10.762 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 43 Resp: 54792

Ion	Ratio	Lower	Upper
43	100		
58	55.0	27.1	81.2

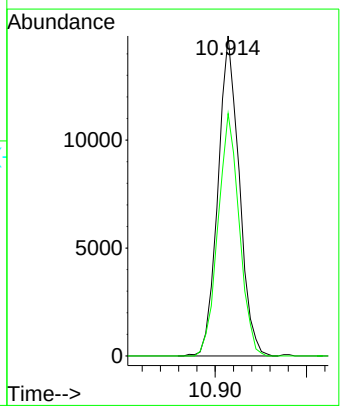


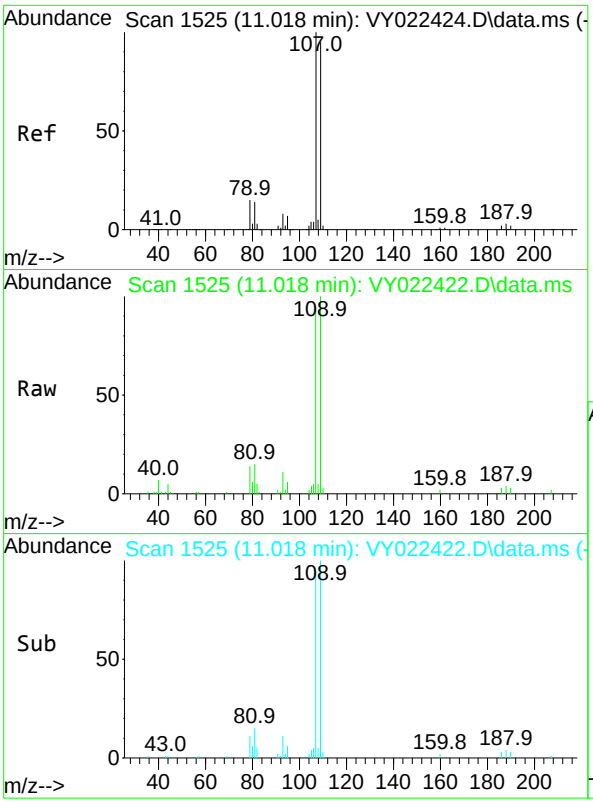


#60
Dibromochloromethane
Concen: 9.340 ug/l
RT: 10.914 min Scan# 1508
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion:129 Resp: 23908

Ion	Ratio	Lower	Upper
129	100		
127	75.7	38.3	114.8



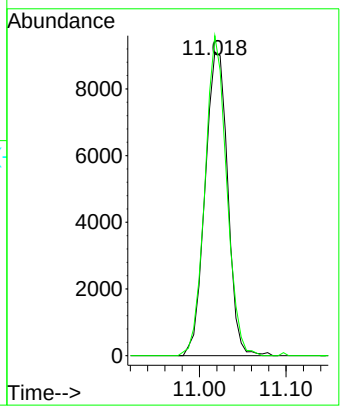


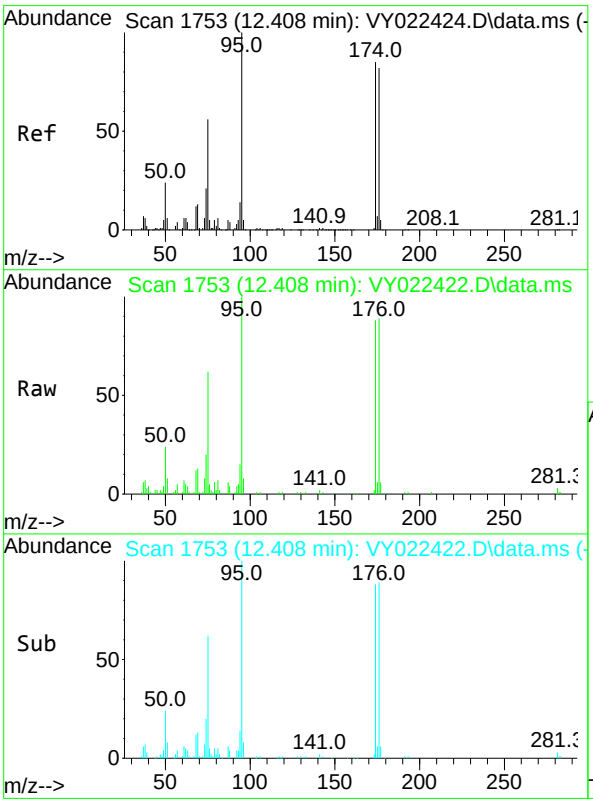
#61
1,2-Dibromoethane
Concen: 9.016 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion:107 Resp: 16524

Ion	Ratio	Lower	Upper
107	100		
109	101.1	74.0	111.0

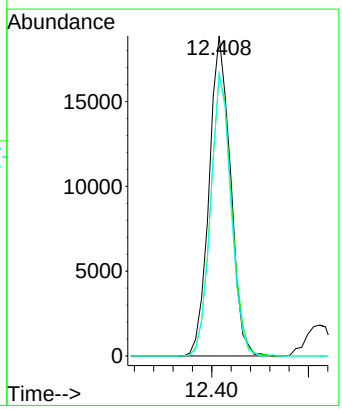


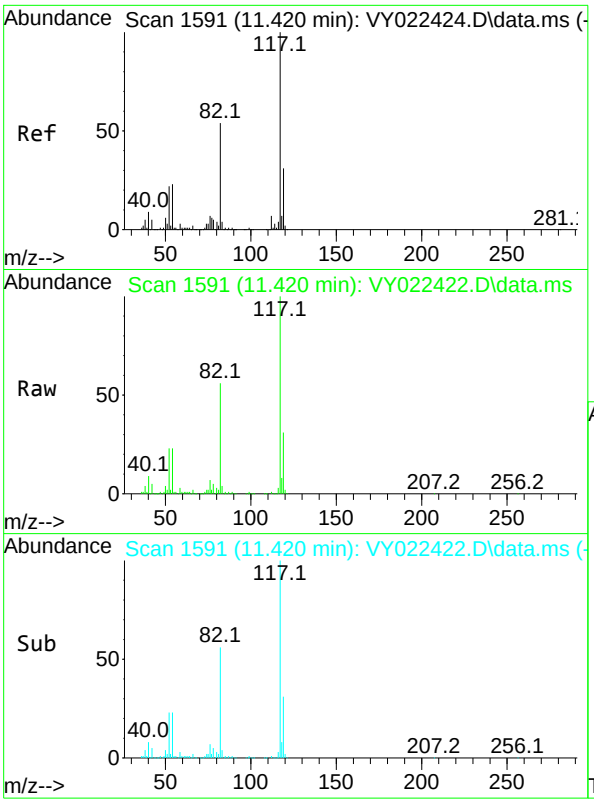


#62
4-Bromofluorobenzene
Concen: 9.163 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 95 Resp: 28894

Ion	Ratio	Lower	Upper
95	100		
174	86.7	0.0	171.6
176	84.0	0.0	164.6



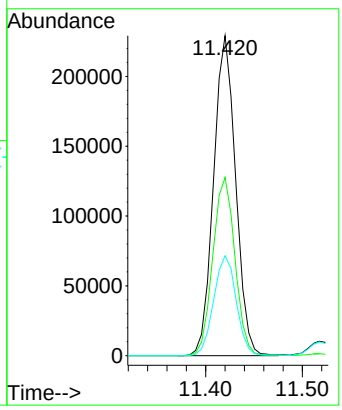


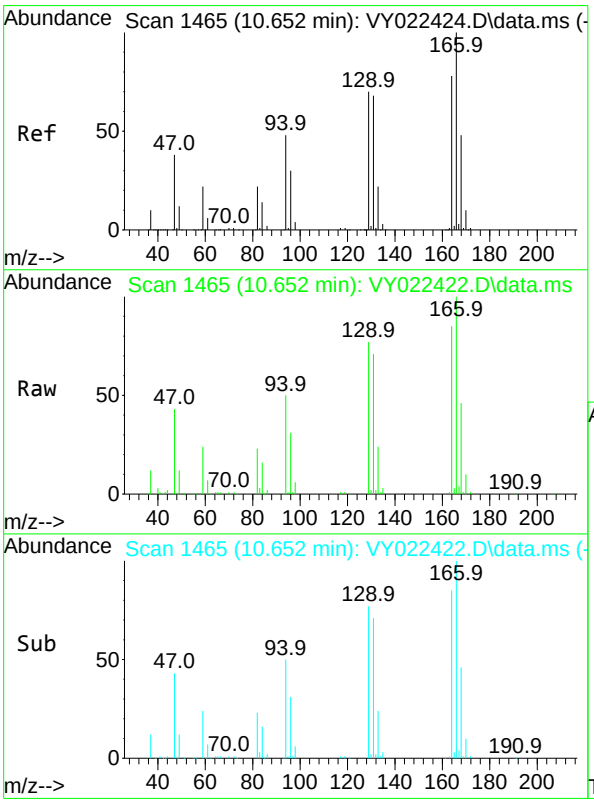
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion:117 Resp: 362684

Ion	Ratio	Lower	Upper
117	100		
82	55.7	43.3	64.9
119	31.3	24.5	36.7

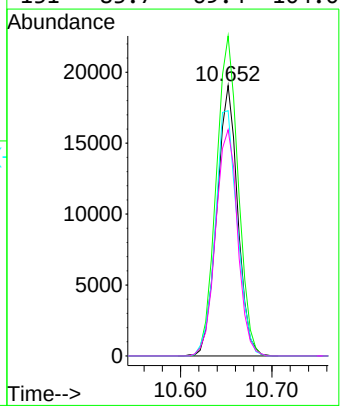


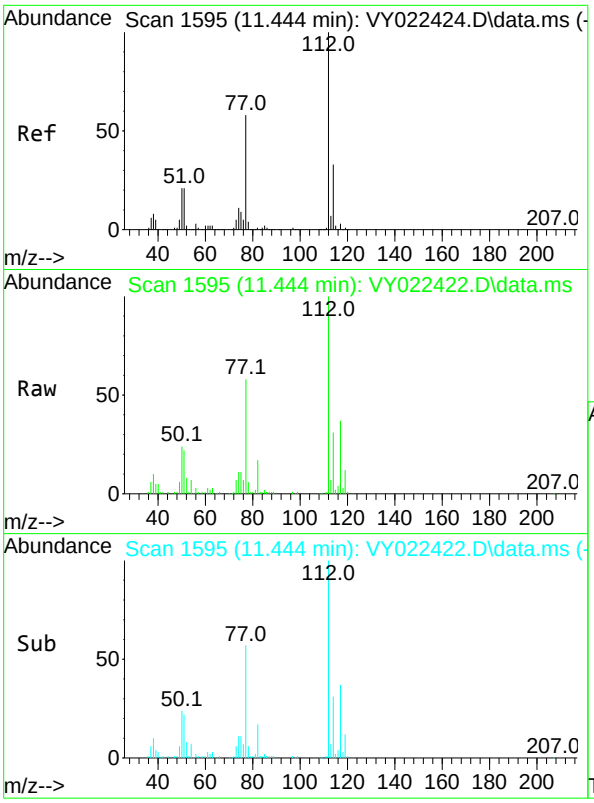


#64
Tetrachloroethene
Concen: 9.789 ug/l
RT: 10.652 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion:164 Resp: 30237

Ion	Ratio	Lower	Upper
164	100		
166	118.3	102.0	153.0
129	90.7	71.3	106.9
131	83.7	69.4	104.0



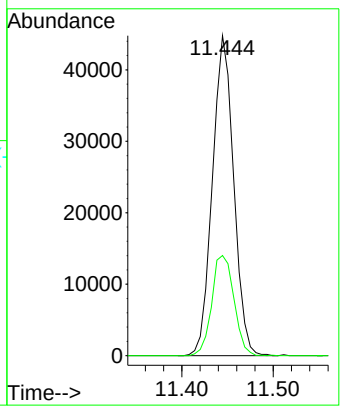


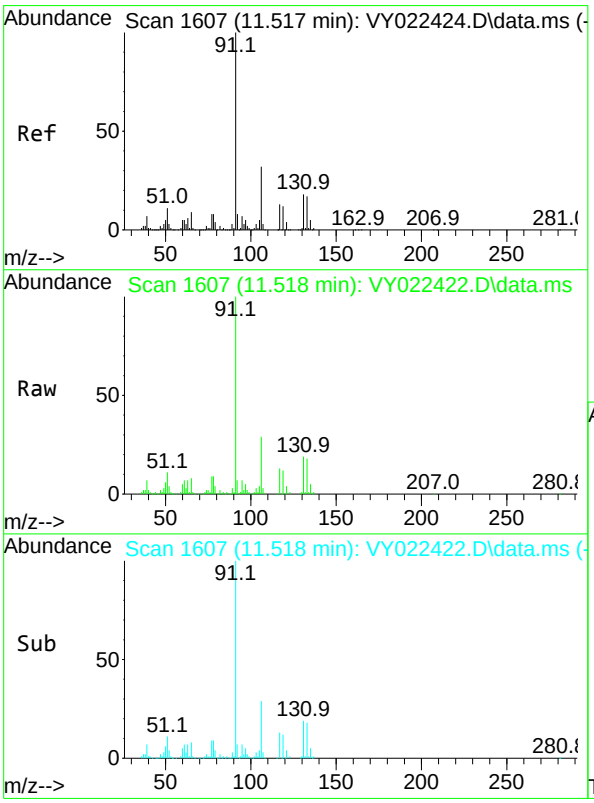
#65
Chlorobenzene
Concen: 9.376 ug/l
RT: 11.444 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion:112 Resp: 72507

Ion	Ratio	Lower	Upper
112	100		
114	31.3	26.1	39.1

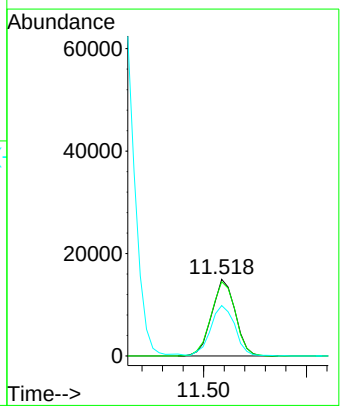


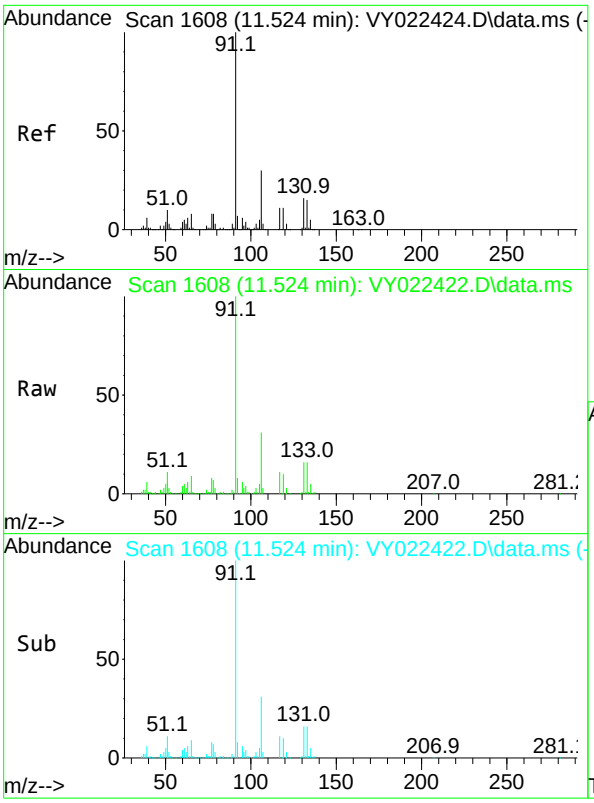


#66
1,1,1,2-Tetrachloroethane
Concen: 9.080 ug/l
RT: 11.518 min Scan# 1607
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion:131 Resp: 23791

Ion	Ratio	Lower	Upper
131	100		
133	99.8	46.6	139.8
119	68.1	33.3	99.8



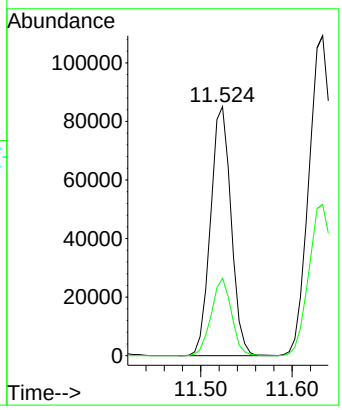


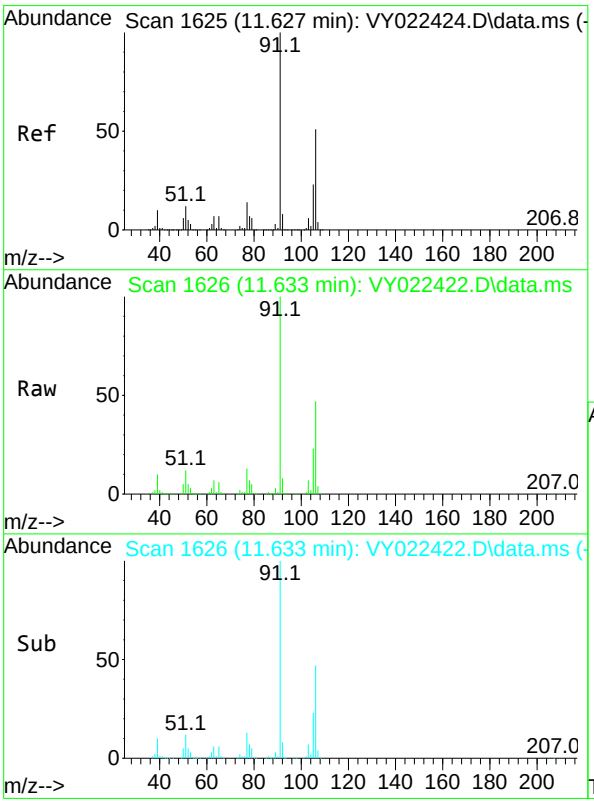
#67
Ethyl Benzene
Concen: 9.236 ug/l
RT: 11.524 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 91 Resp: 132623

Ion	Ratio	Lower	Upper
91	100		
106	31.1	24.4	36.6

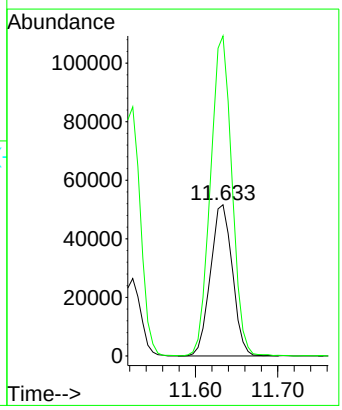


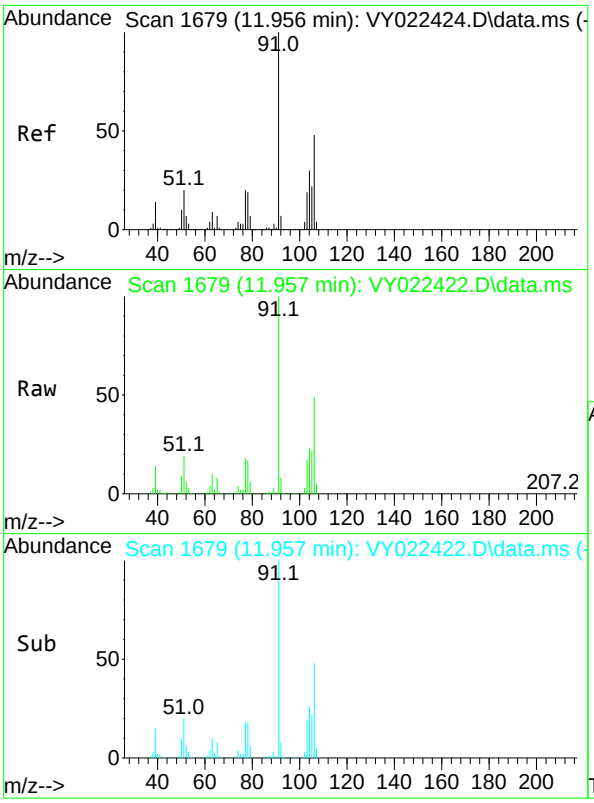


#68
m/p-Xylenes
Concen: 17.586 ug/l
RT: 11.633 min Scan# 1626
Delta R.T. 0.006 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion:106 Resp: 95743

Ion	Ratio	Lower	Upper
106	100		
91	207.2	159.8	239.8



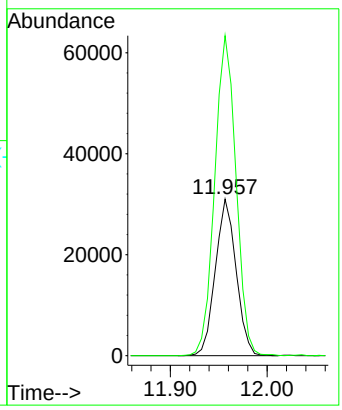


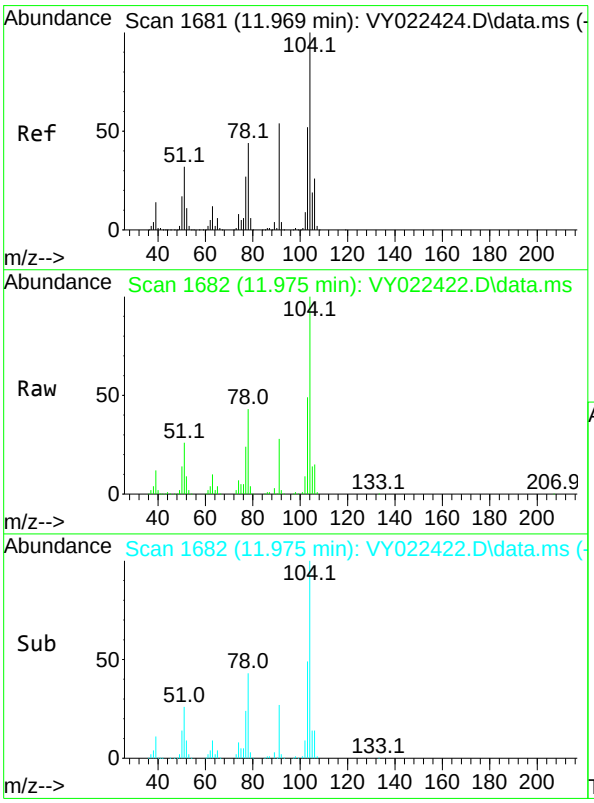
#69
o-Xylene
Concen: 9.028 ug/l
RT: 11.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion:106 Resp: 46196

Ion	Ratio	Lower	Upper
106	100		
91	209.9	106.3	318.9

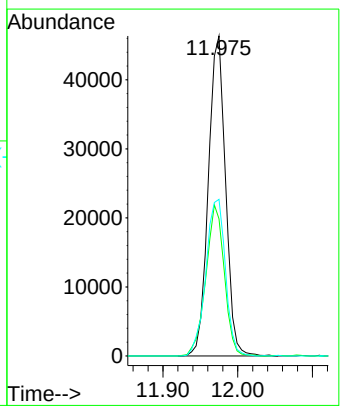


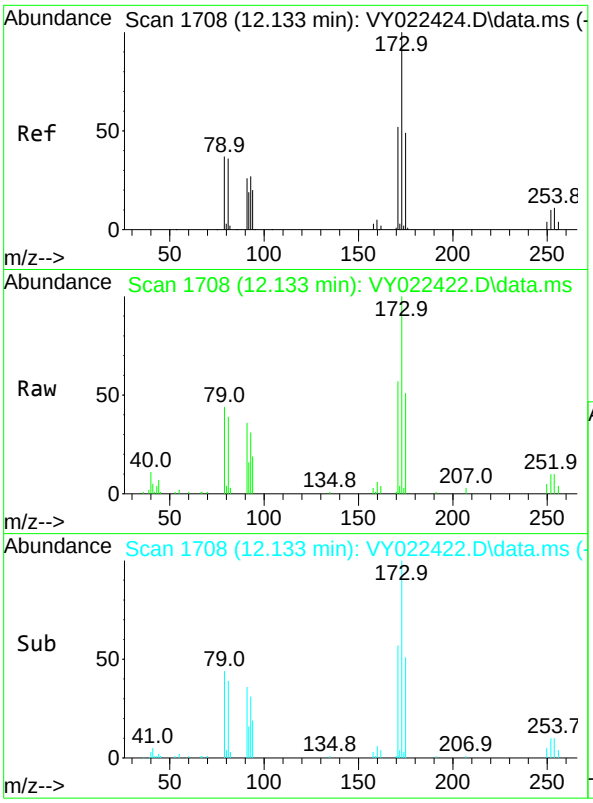


#70
Styrene
Concen: 8.685 ug/l
RT: 11.975 min Scan# 1682
Delta R.T. 0.006 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion:104 Resp: 73993

Ion	Ratio	Lower	Upper
104	100		
78	50.8	38.8	58.2
103	55.9	43.4	65.2



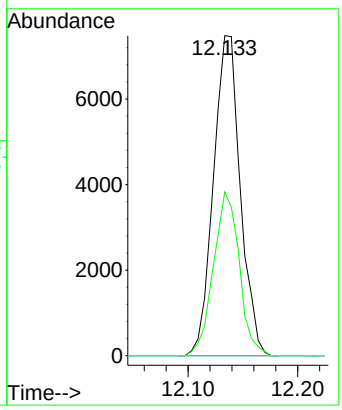


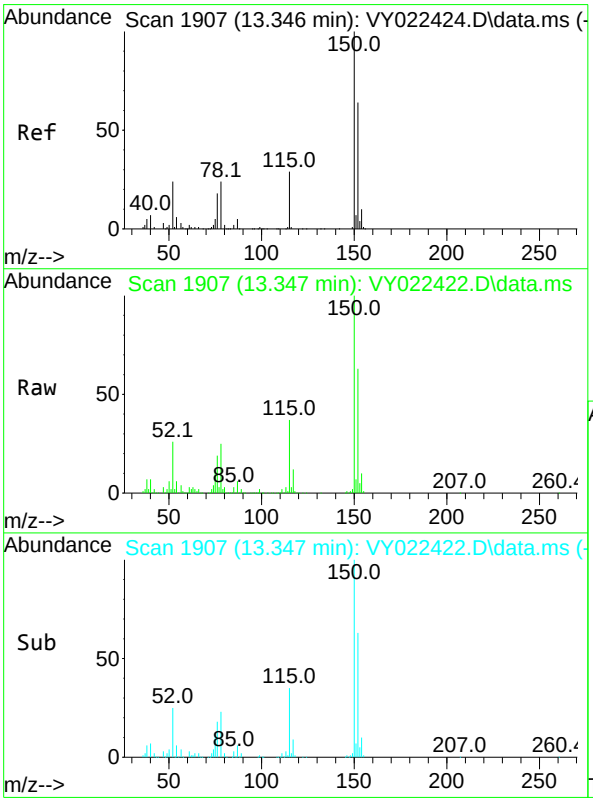
#71
Bromoform
Concen: 9.287 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion:173 Resp: 12746

Ion	Ratio	Lower	Upper
173	100		
175	49.3	24.3	73.0
254	0.0	0.1	0.1#

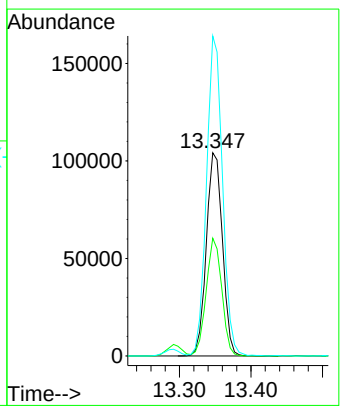


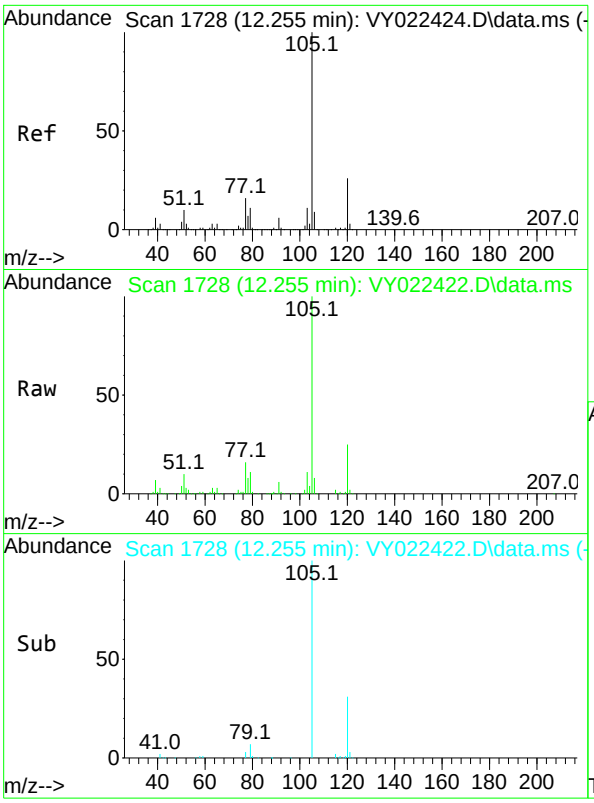


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion:152 Resp: 162991

Ion	Ratio	Lower	Upper
152	100		
115	56.0	28.4	85.3
150	155.9	0.0	345.8



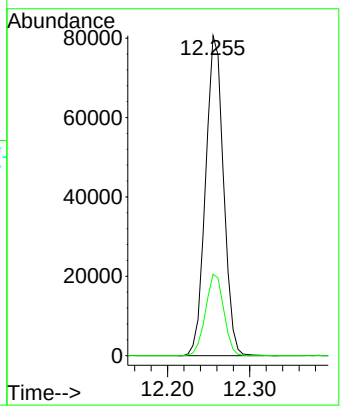


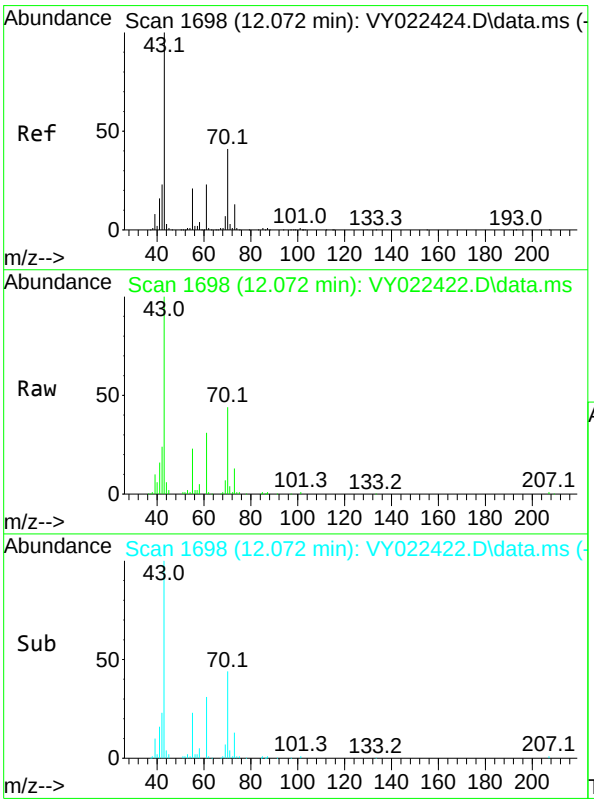
#73
Isopropylbenzene
Concen: 9.507 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion:105 Resp: 121960

Ion	Ratio	Lower	Upper
105	100		
120	26.0	13.2	39.5

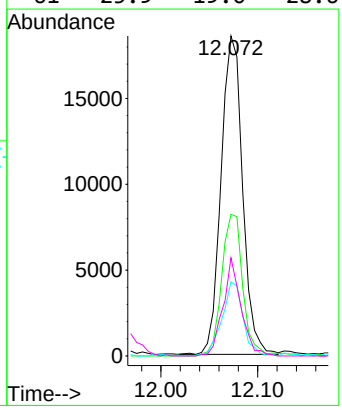


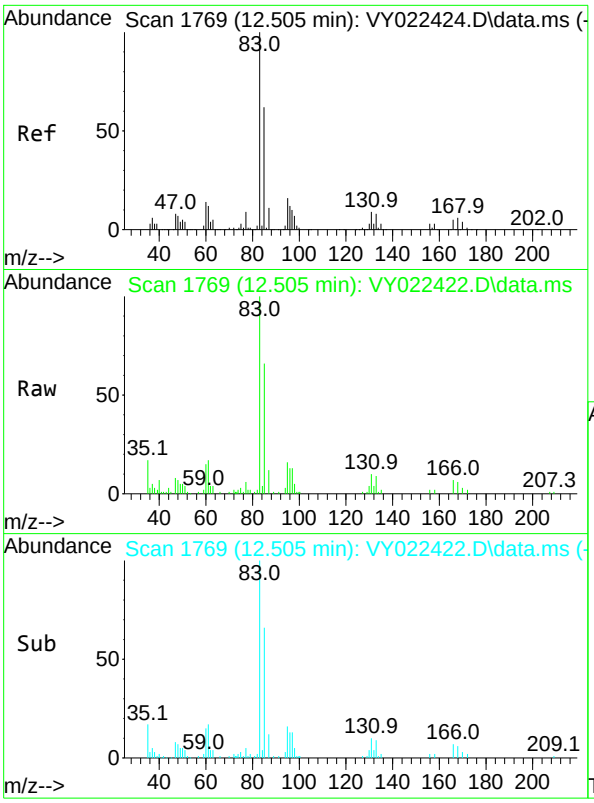


#74
N-amyl acetate
Concen: 9.114 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 43 Resp: 28607

Ion	Ratio	Lower	Upper
43	100		
70	44.1	33.0	49.4
55	22.9	17.5	26.3
61	25.9	19.0	28.6



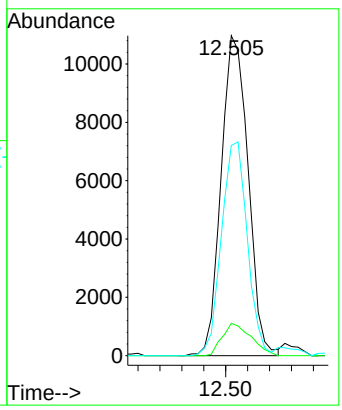


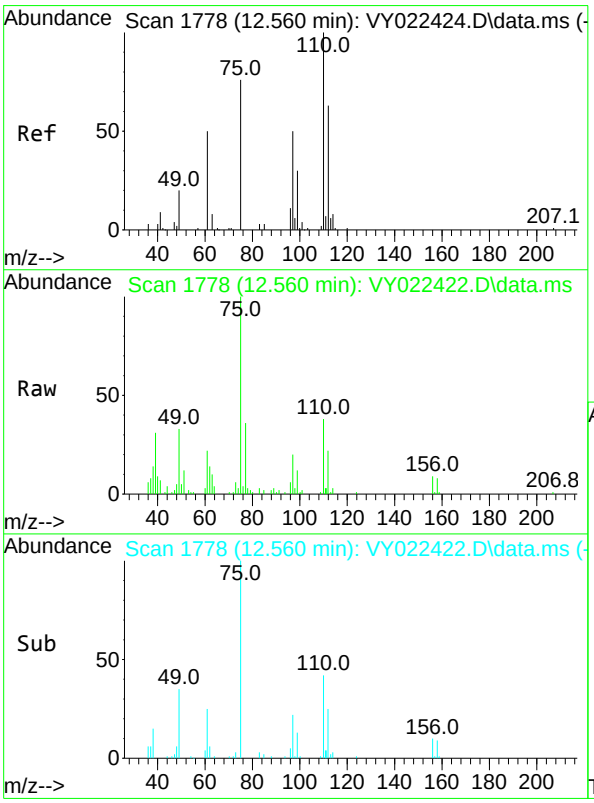
#75
1,1,2,2-Tetrachloroethane
Concen: 9.262 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 83 Resp: 18720

Ion	Ratio	Lower	Upper
83	100		
131	10.8	4.8	14.4
85	64.1	32.0	96.2

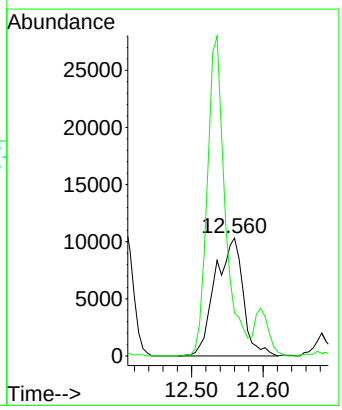


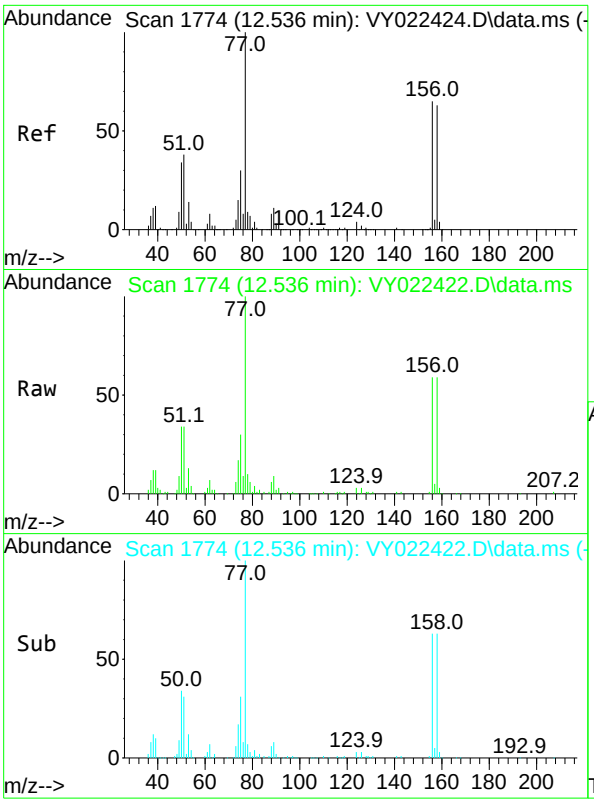


#76
1,2,3-Trichloropropane
Concen: 17.141 ug/l
RT: 12.560 min Scan# 1778
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 75 Resp: 27985

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0



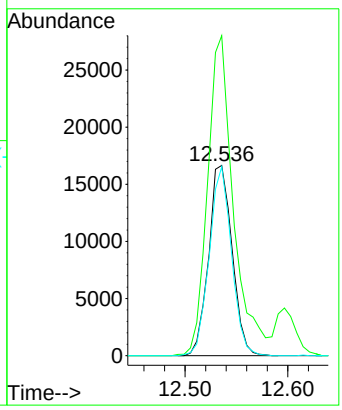


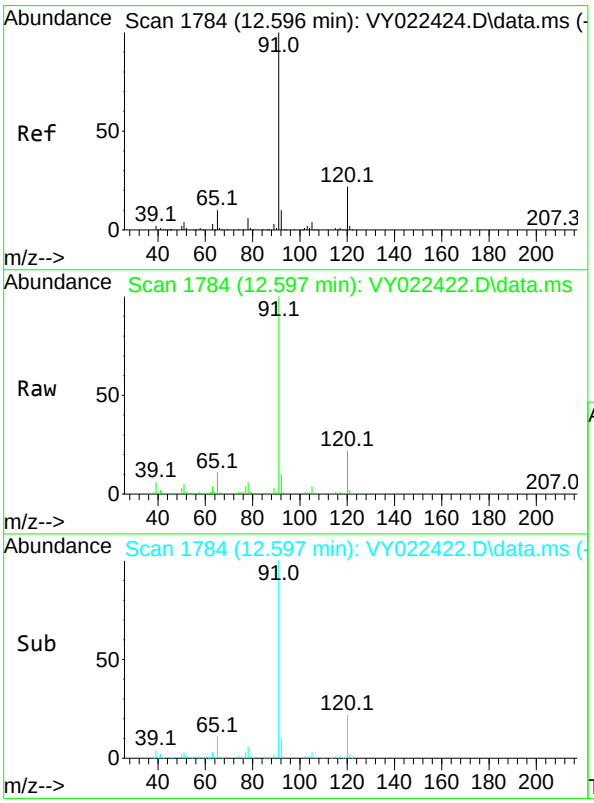
#77
Bromobenzene
Concen: 9.584 ug/l
RT: 12.536 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion:156 Resp: 26457

Ion	Ratio	Lower	Upper
156	100		
77	184.0	91.4	274.2
158	94.1	48.1	144.3

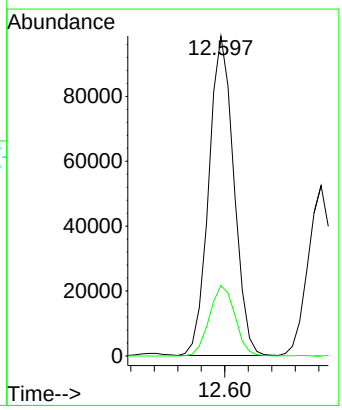


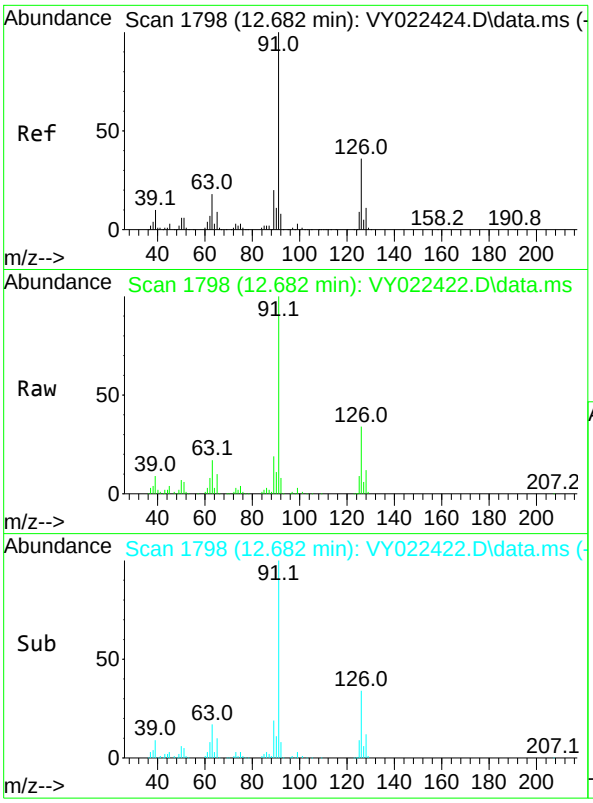


#78
n-propylbenzene
Concen: 9.459 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 91 Resp: 145616

Ion	Ratio	Lower	Upper
91	100		
120	22.5	11.2	33.5



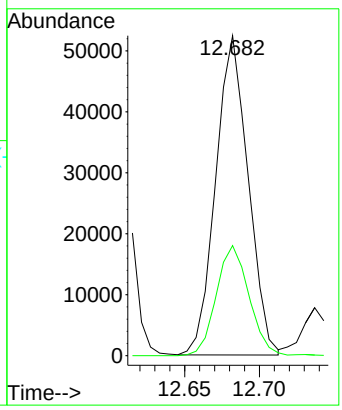


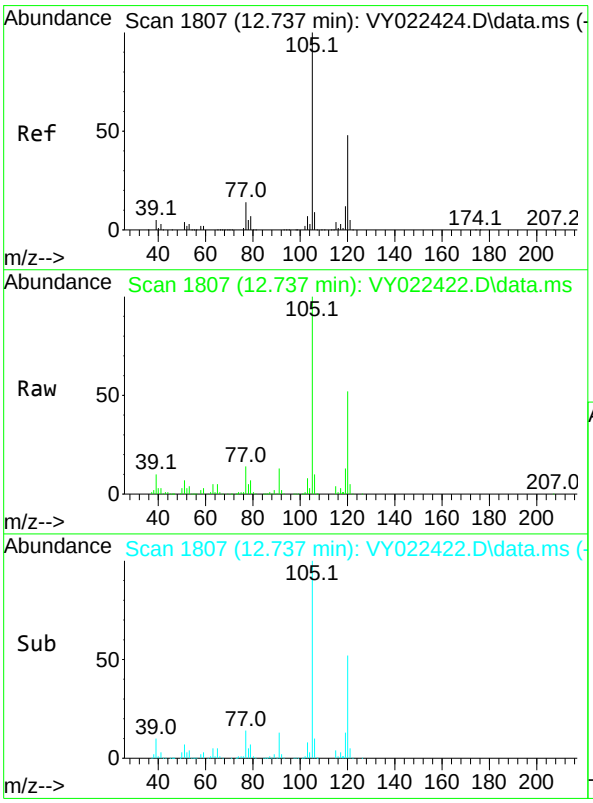
#79
2-Chlorotoluene
Concen: 9.488 ug/l
RT: 12.682 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 91 Resp: 79070

Ion	Ratio	Lower	Upper
91	100		
126	34.9	17.4	52.3

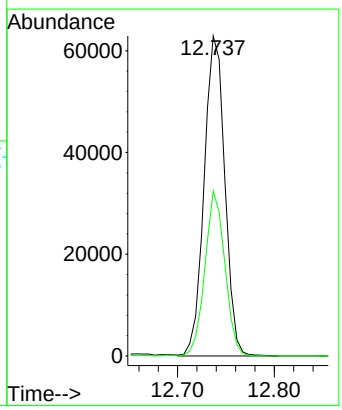


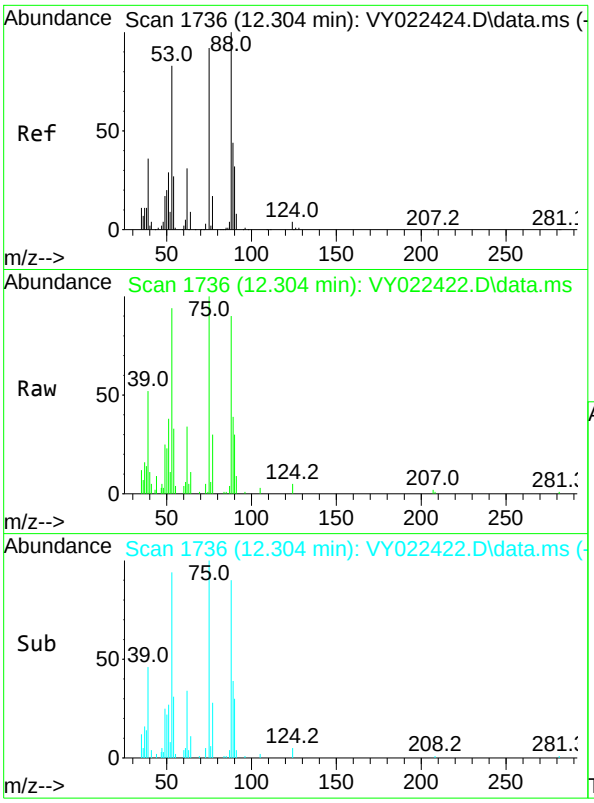


#80
1,3,5-Trimethylbenzene
Concen: 9.334 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion:105 Resp: 93557

Ion	Ratio	Lower	Upper
105	100		
120	49.8	24.3	73.0



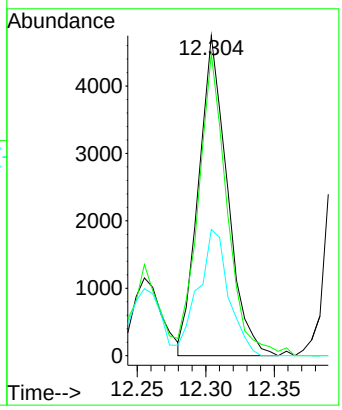


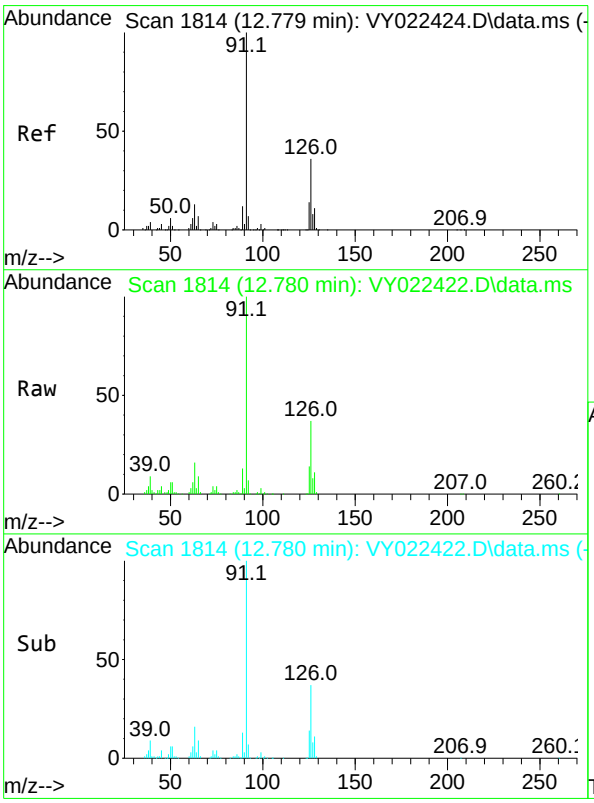
#81
trans-1,4-Dichloro-2-butene
Concen: 9.601 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 75 Resp: 6931

Ion	Ratio	Lower	Upper
75	100		
53	93.5	75.1	112.7
89	41.5	37.4	56.0

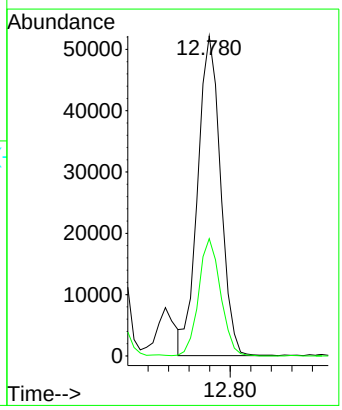


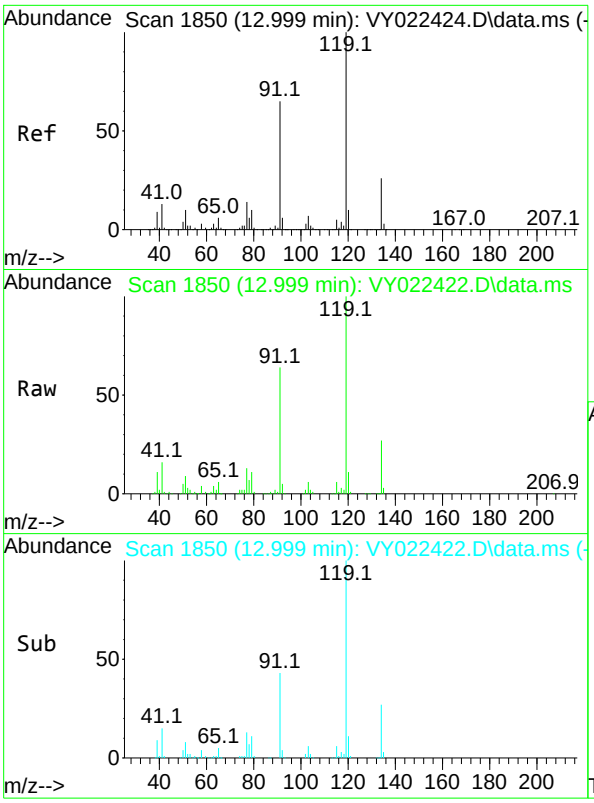


#82
4-Chlorotoluene
Concen: 9.356 ug/l
RT: 12.780 min Scan# 1814
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 91 Resp: 80299

Ion	Ratio	Lower	Upper
91	100		
126	35.4	17.2	51.6



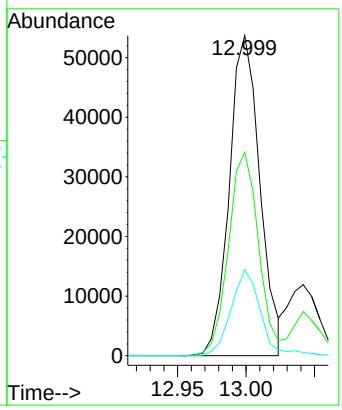


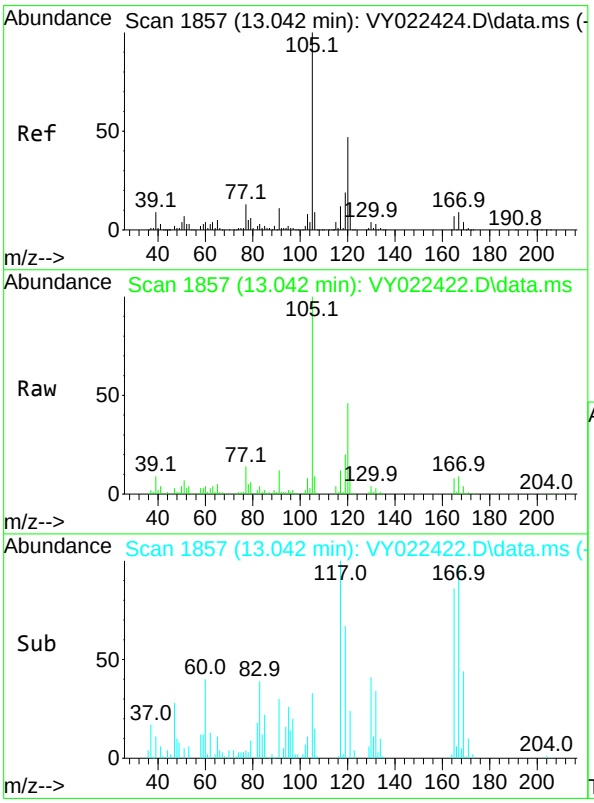
#83
tert-Butylbenzene
Concen: 9.216 ug/l
RT: 12.999 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion:119 Resp: 83455

Ion	Ratio	Lower	Upper
119	100		
91	62.4	31.8	95.3
134	26.0	13.0	38.9

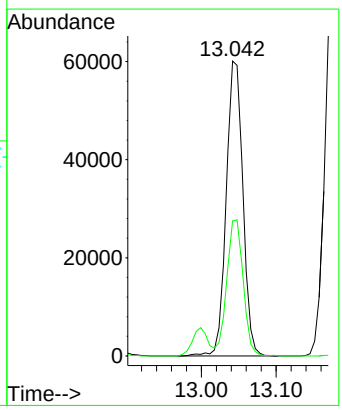


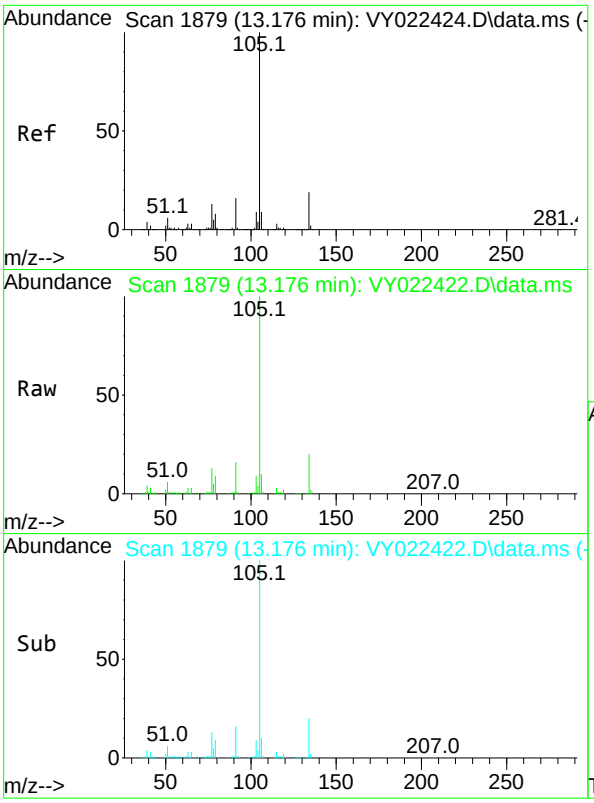


#84
1,2,4-Trimethylbenzene
Concen: 9.230 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion:105 Resp: 93094

Ion	Ratio	Lower	Upper
105	100		
120	45.3	22.9	68.5



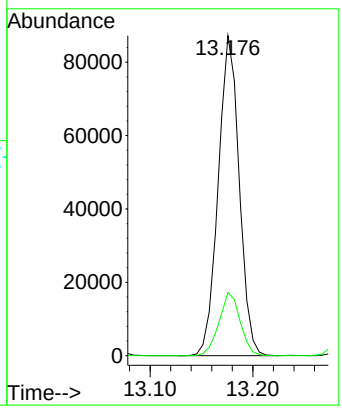


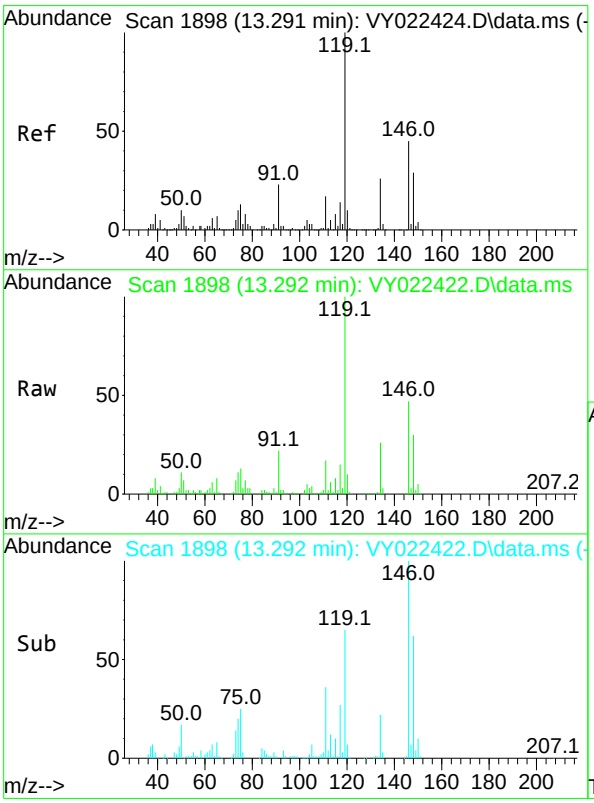
#85
sec-Butylbenzene
Concen: 9.191 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion:105 Resp: 123436

Ion	Ratio	Lower	Upper
105	100		
134	19.9	9.7	29.1

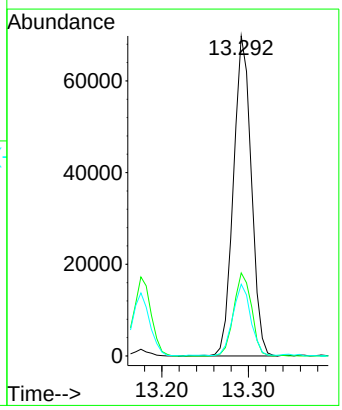


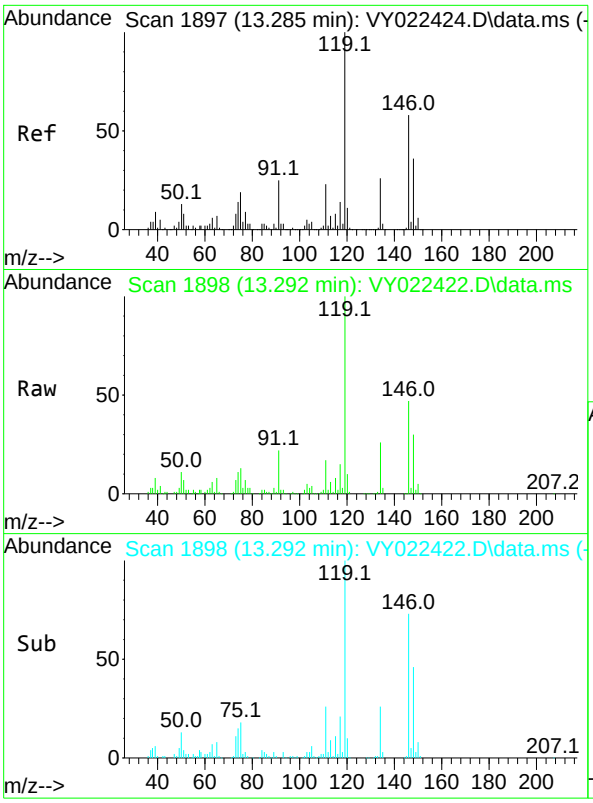


#86
p-Isopropyltoluene
Concen: 8.932 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion:119 Resp: 100168

Ion	Ratio	Lower	Upper
119	100		
134	25.9	13.0	39.0
91	22.3	11.6	34.8



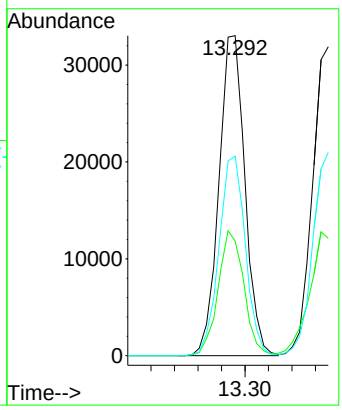


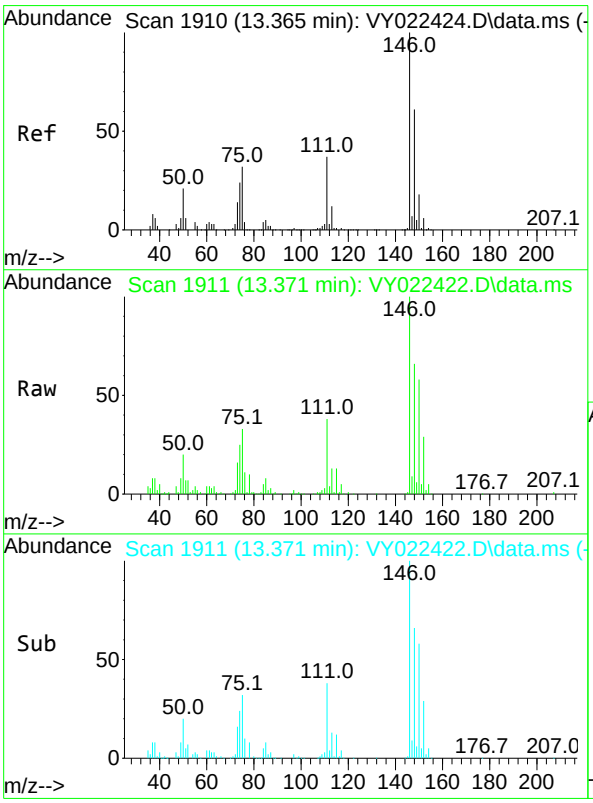
#87
1,3-Dichlorobenzene
Concen: 9.144 ug/l
RT: 13.292 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion:146 Resp: 50790

Ion	Ratio	Lower	Upper
146	100		
111	38.6	19.6	58.8
148	63.4	31.7	95.1

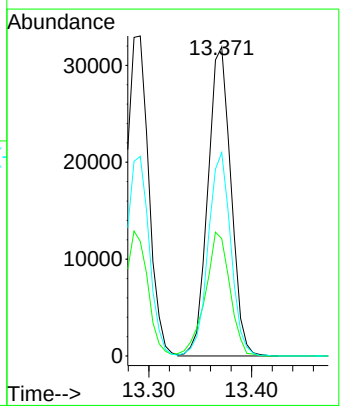


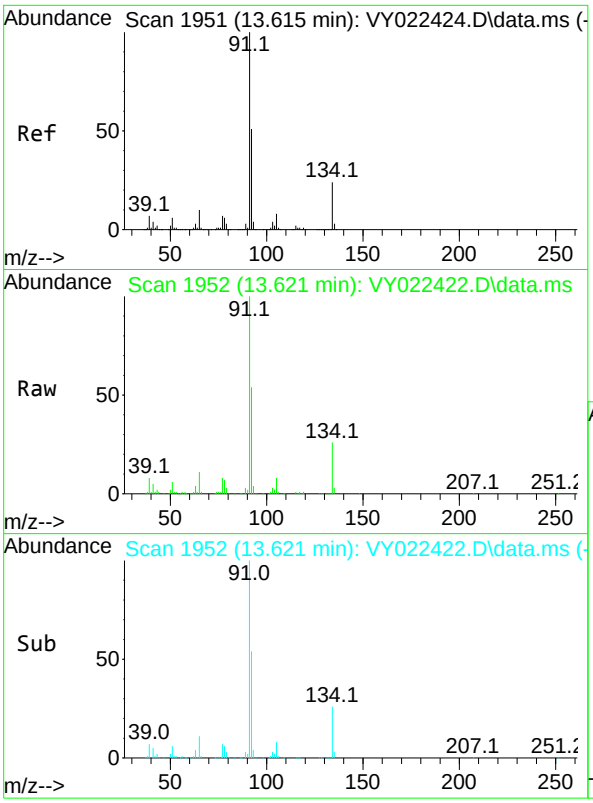


#88
1,4-Dichlorobenzene
Concen: 9.372 ug/l
RT: 13.371 min Scan# 1911
Delta R.T. 0.006 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion:146 Resp: 49773

Ion	Ratio	Lower	Upper
146	100		
111	42.9	18.7	56.1
148	64.9	31.4	94.3



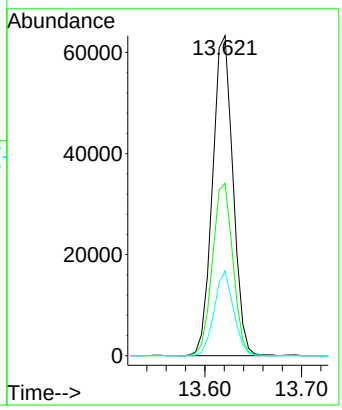


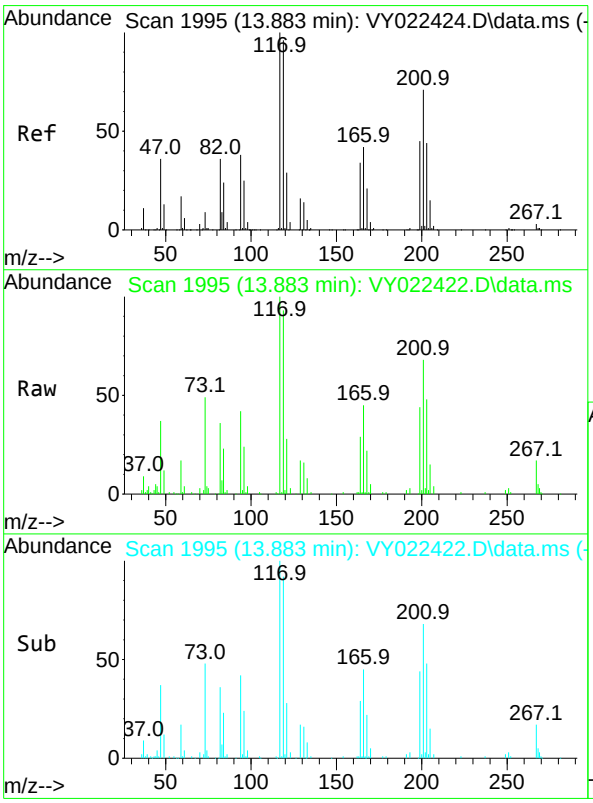
#89
n-Butylbenzene
Concen: 8.847 ug/l
RT: 13.621 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion: 91 Resp: 93025

Ion	Ratio	Lower	Upper
91	100		
92	53.9	25.9	77.6
134	25.0	12.4	37.0

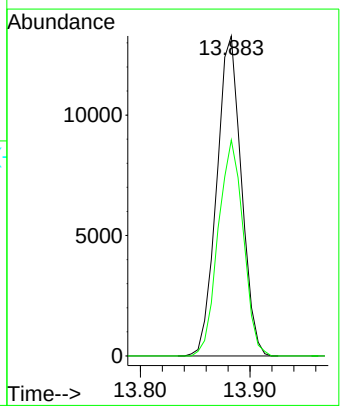


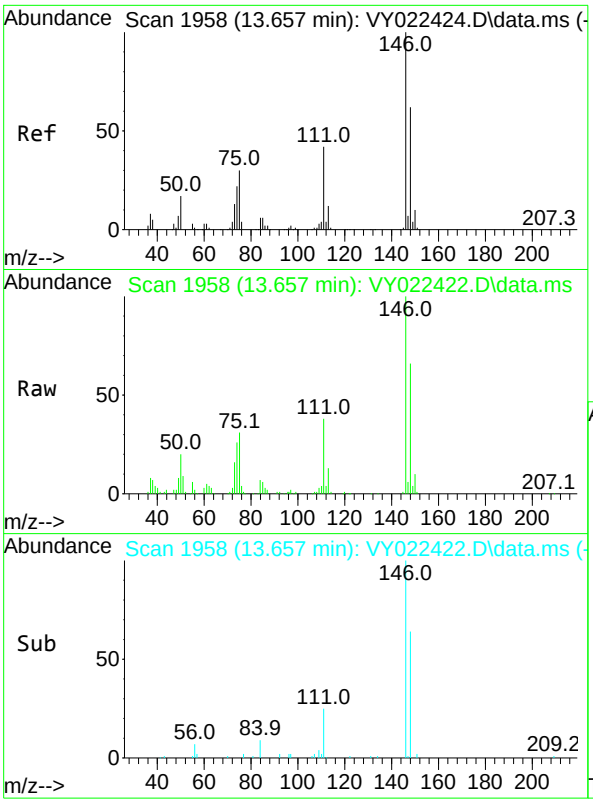


#90
Hexachloroethane
Concen: 9.310 ug/l
RT: 13.883 min Scan# 1995
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion:117 Resp: 20778

Ion	Ratio	Lower	Upper
117	100		
201	68.7	35.0	105.0



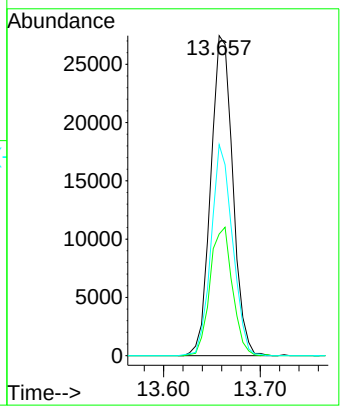


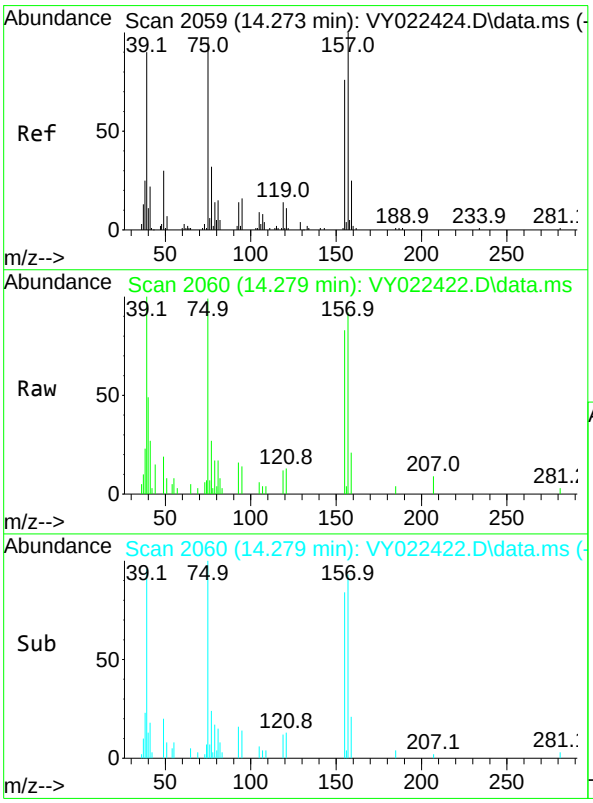
#91
1,2-Dichlorobenzene
Concen: 9.358 ug/l
RT: 13.657 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion:146 Resp: 43417

Ion	Ratio	Lower	Upper
146	100		
111	40.8	20.5	61.6
148	64.1	31.9	95.9

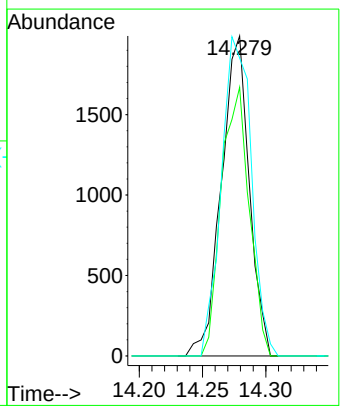


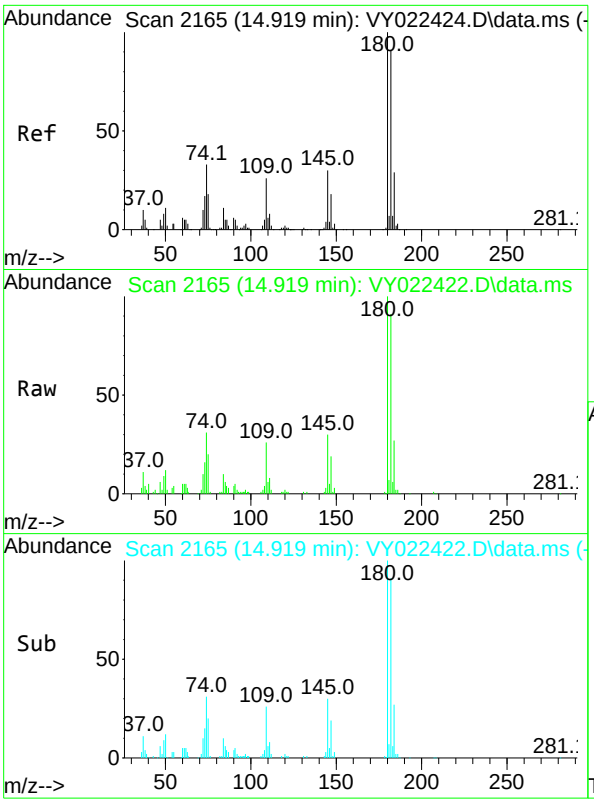


#92
1,2-Dibromo-3-Chloropropane
Concen: 9.740 ug/l
RT: 14.279 min Scan# 2060
Delta R.T. 0.006 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion: 75 Resp: 3042

Ion	Ratio	Lower	Upper
75	100		
155	84.2	42.3	126.8
157	107.4	54.4	163.3



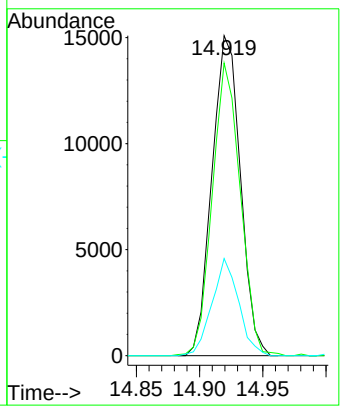


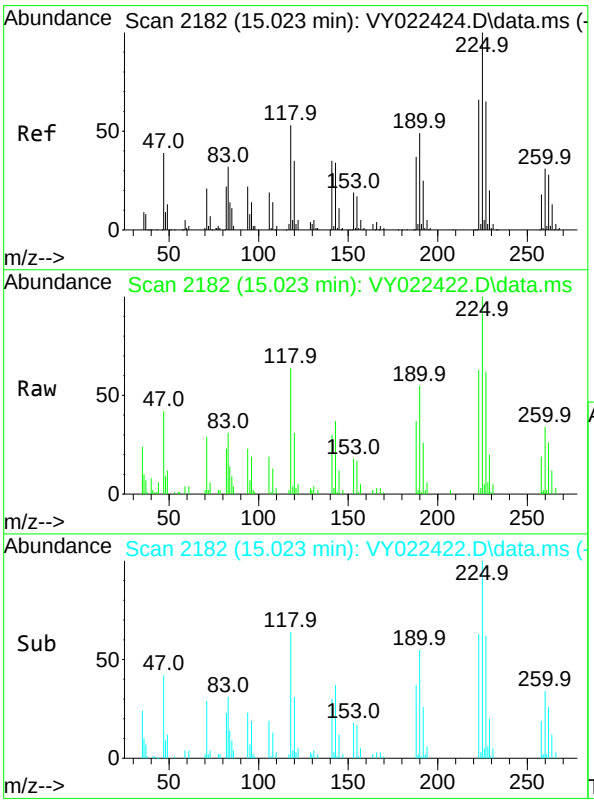
#93
1,2,4-Trichlorobenzene
Concen: 9.172 ug/l
RT: 14.919 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion:180 Resp: 23591

Ion	Ratio	Lower	Upper
180	100		
182	89.9	46.2	138.6
145	28.4	14.2	42.8

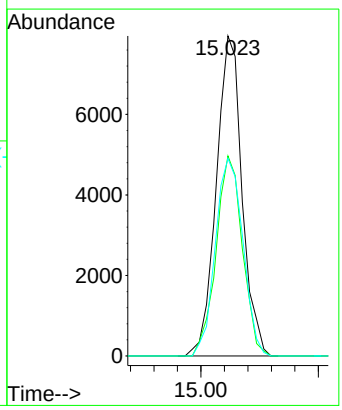


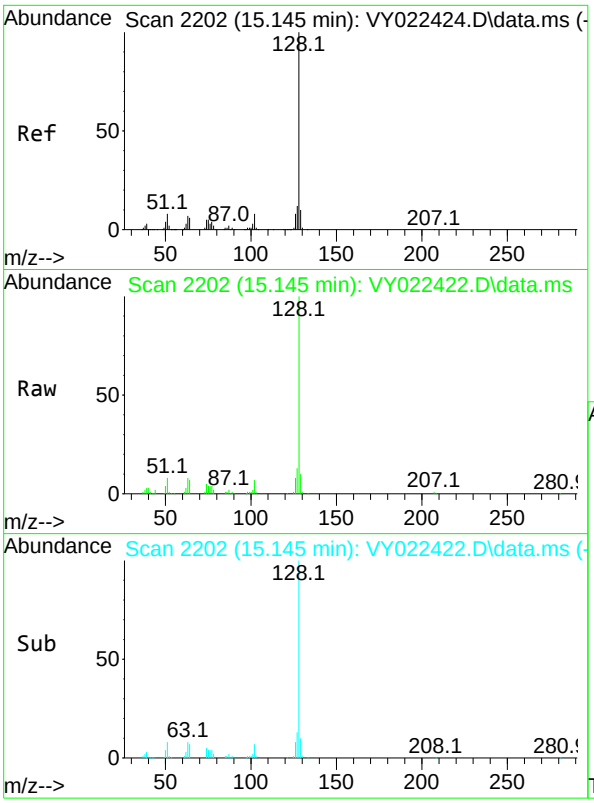


#94
Hexachlorobutadiene
Concen: 8.956 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion:225 Resp: 12088

Ion	Ratio	Lower	Upper
225	100		
223	63.8	32.6	97.7
227	66.2	33.0	99.0



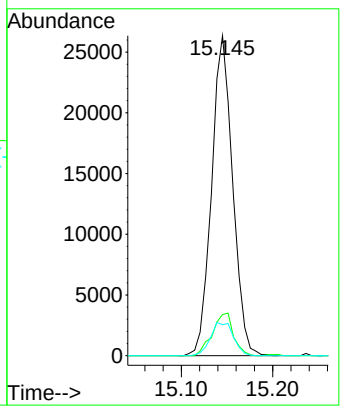


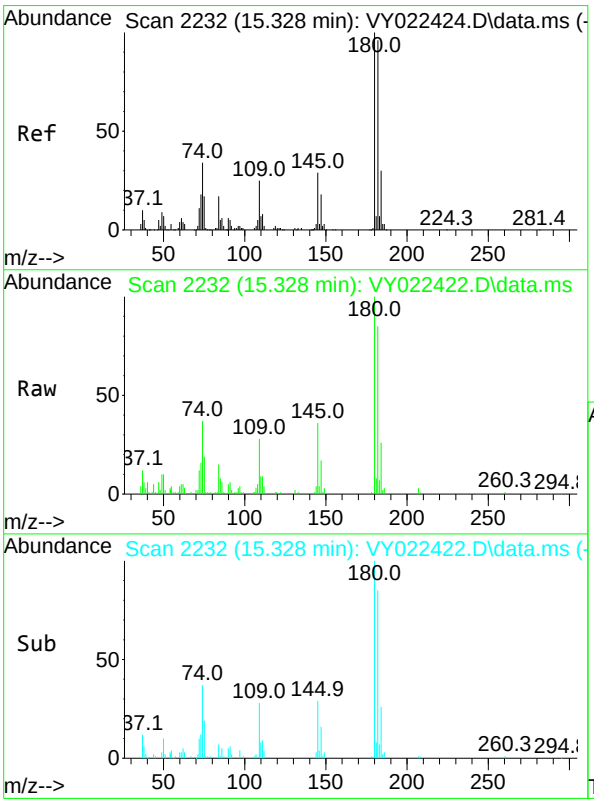
#95
Naphthalene
Concen: 8.878 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Tgt Ion:128 Resp: 42212

Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.2	15.4
129	11.3	8.5	12.7

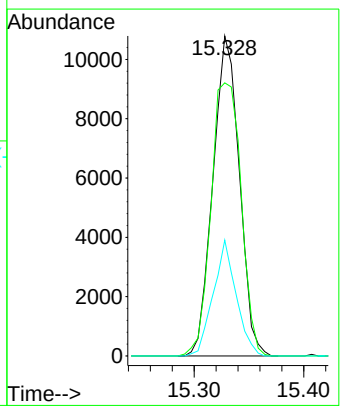




#96
1,2,3-Trichlorobenzene
Concen: 8.567 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. 0.000 min
Lab File: VY022422.D
Acq: 27 May 2025 09:14

Tgt Ion:180 Resp: 18071

Ion	Ratio	Lower	Upper
180	100		
182	97.3	48.1	144.3
145	31.6	14.9	44.5



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022423.D
Acq On : 27 May 2025 09:36
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Quant Time: May 28 15:23:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	252702	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	427651	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	358898	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	162048	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	52229	19.622	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	39.240%#		
35) Dibromofluoromethane	7.640	113	48414	19.331	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	38.660%#		
50) Toluene-d8	10.109	98	199816	19.571	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	39.140%#		
62) 4-Bromofluorobenzene	12.408	95	59022	19.112	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	38.220%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	53184	22.059	ug/l	100
3) Chloromethane	2.068	50	131430	22.162	ug/l	96
4) Vinyl Chloride	2.208	62	153844	21.354	ug/l	97
5) Bromomethane	2.592	94	141241	21.573	ug/l	99
6) Chloroethane	2.739	64	95915	20.373	ug/l	98
7) Trichlorofluoromethane	3.056	101	123550	20.326	ug/l	99
8) Diethyl Ether	3.458	74	27436	19.575	ug/l	98
9) 1,1,2-Trichlorotrifluo...	3.818	101	54677	20.503	ug/l	100
10) Methyl Iodide	4.013	142	61032	20.286	ug/l	100
11) Tert butyl alcohol	4.885	59	18099	96.467	ug/l #	86
12) 1,1-Dichloroethene	3.793	96	53871	20.347	ug/l	99
13) Acrolein	3.659	56	28252	100.498	ug/l	98
14) Allyl chloride	4.391	41	80449	20.200	ug/l	97
15) Acrylonitrile	5.067	53	55206	97.719	ug/l	100
16) Acetone	3.879	43	40769	93.210	ug/l	92
17) Carbon Disulfide	4.110	76	172558	20.423	ug/l	100
18) Methyl Acetate	4.397	43	29942	18.275	ug/l	99
19) Methyl tert-butyl Ether	5.128	73	137123	19.508	ug/l	97
20) Methylene Chloride	4.622	84	58412	18.912	ug/l	99
21) trans-1,2-Dichloroethene	5.122	96	56105	19.411	ug/l	99
22) Diisopropyl ether	6.025	45	175073	19.918	ug/l	99
23) Vinyl Acetate	5.964	43	504103	99.882	ug/l	99
24) 1,1-Dichloroethane	5.927	63	104623	20.143	ug/l	100
25) 2-Butanone	6.902	43	68733	94.358	ug/l	99
26) 2,2-Dichloropropane	6.890	77	94730	20.142	ug/l	97
27) cis-1,2-Dichloroethene	6.896	96	65719	19.640	ug/l	99
28) Bromochloromethane	7.250	49	43955	20.266	ug/l	99
29) Tetrahydrofuran	7.268	42	46611	95.946	ug/l	99
30) Chloroform	7.427	83	103440	20.211	ug/l	96
31) Cyclohexane	7.707	56	100786	19.685	ug/l	93
32) 1,1,1-Trichloroethane	7.628	97	92540	19.923	ug/l	99
36) 1,1-Dichloropropene	7.841	75	77871	19.594	ug/l	99
37) Ethyl Acetate	6.994	43	32871	19.462	ug/l	98
38) Carbon Tetrachloride	7.823	117	80594	19.468	ug/l	94
39) Methylcyclohexane	9.109	83	103224	19.540	ug/l	95
40) Benzene	8.085	78	232606	19.670	ug/l	97

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022423.D
Acq On : 27 May 2025 09:36
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Quant Time: May 28 15:23:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.268	41	25890	25.256	ug/l	#	48
42) 1,2-Dichloroethane	8.158	62	61523	19.699	ug/l		99
43) Isopropyl Acetate	8.201	43	71905	19.483	ug/l	#	86
44) Trichloroethene	8.872	130	58860	20.135	ug/l		97
45) 1,2-Dichloropropane	9.146	63	54451	19.598	ug/l		99
46) Dibromomethane	9.237	93	29679	19.122	ug/l		98
47) Bromodichloromethane	9.426	83	76833	19.250	ug/l		97
48) Methyl methacrylate	9.225	41	32925	19.218	ug/l		99
49) 1,4-Dioxane	9.231	88	6923	403.829	ug/l		91
51) 4-Methyl-2-Pentanone	9.999	43	169056	92.837	ug/l		99
52) Toluene	10.176	92	143949	19.489	ug/l		100
53) t-1,3-Dichloropropene	10.396	75	71231	19.160	ug/l		100
54) cis-1,3-Dichloropropene	9.859	75	86263	19.747	ug/l		98
55) 1,1,2-Trichloroethane	10.579	97	38684	19.713	ug/l		94
56) Ethyl methacrylate	10.445	69	53900	19.140	ug/l		98
57) 1,3-Dichloropropane	10.719	76	68793	19.893	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.713	63	130961	93.311	ug/l		98
59) 2-Hexanone	10.762	43	109954	92.136	ug/l		98
60) Dibromochloromethane	10.914	129	48590	19.384	ug/l		99
61) 1,2-Dibromoethane	11.018	107	35441	19.746	ug/l		100
64) Tetrachloroethene	10.652	164	62224	20.357	ug/l		99
65) Chlorobenzene	11.444	112	150827	19.709	ug/l		97
66) 1,1,1,2-Tetrachloroethane	11.518	131	50226	19.371	ug/l		96
67) Ethyl Benzene	11.524	91	275656	19.399	ug/l		98
68) m/p-Xylenes	11.633	106	207724	38.557	ug/l		99
69) o-Xylene	11.956	106	96581	19.075	ug/l		100
70) Styrene	11.969	104	160384	19.023	ug/l		99
71) Bromoform	12.133	173	26368	19.415	ug/l	#	100
73) Isopropylbenzene	12.255	105	255754	20.053	ug/l		99
74) N-amyl acetate	12.072	43	61037	19.558	ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.505	83	39127	19.472	ug/l		99
76) 1,2,3-Trichloropropane	12.560	75	57021	35.129	ug/l	#	100
77) Bromobenzene	12.536	156	55641	20.273	ug/l		97
78) n-propylbenzene	12.597	91	306474	20.024	ug/l		100
79) 2-Chlorotoluene	12.682	91	163649	19.752	ug/l		99
80) 1,3,5-Trimethylbenzene	12.737	105	198748	19.944	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.304	75	14257	19.863	ug/l		98
82) 4-Chlorotoluene	12.779	91	171858	20.140	ug/l		99
83) tert-Butylbenzene	12.999	119	179841	19.975	ug/l		99
84) 1,2,4-Trimethylbenzene	13.042	105	196951	19.640	ug/l		100
85) sec-Butylbenzene	13.176	105	263748	19.753	ug/l		99
86) p-Isopropyltoluene	13.292	119	216227	19.393	ug/l		100
87) 1,3-Dichlorobenzene	13.292	146	108479	19.644	ug/l		99
88) 1,4-Dichlorobenzene	13.371	146	104788	19.845	ug/l		98
89) n-Butylbenzene	13.615	91	206658	19.768	ug/l		99
90) Hexachloroethane	13.883	117	44059	19.857	ug/l		98
91) 1,2-Dichlorobenzene	13.657	146	92726	20.103	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.279	75	6215	20.016	ug/l		94
93) 1,2,4-Trichlorobenzene	14.919	180	49954	19.535	ug/l		98
94) Hexachlorobutadiene	15.023	225	25718	19.164	ug/l		97
95) Naphthalene	15.145	128	89204	18.870	ug/l		98
96) 1,2,3-Trichlorobenzene	15.328	180	41774	19.919	ug/l		96

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022423.D
Acq On : 27 May 2025 09:36
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Quant Time: May 28 15:23:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration

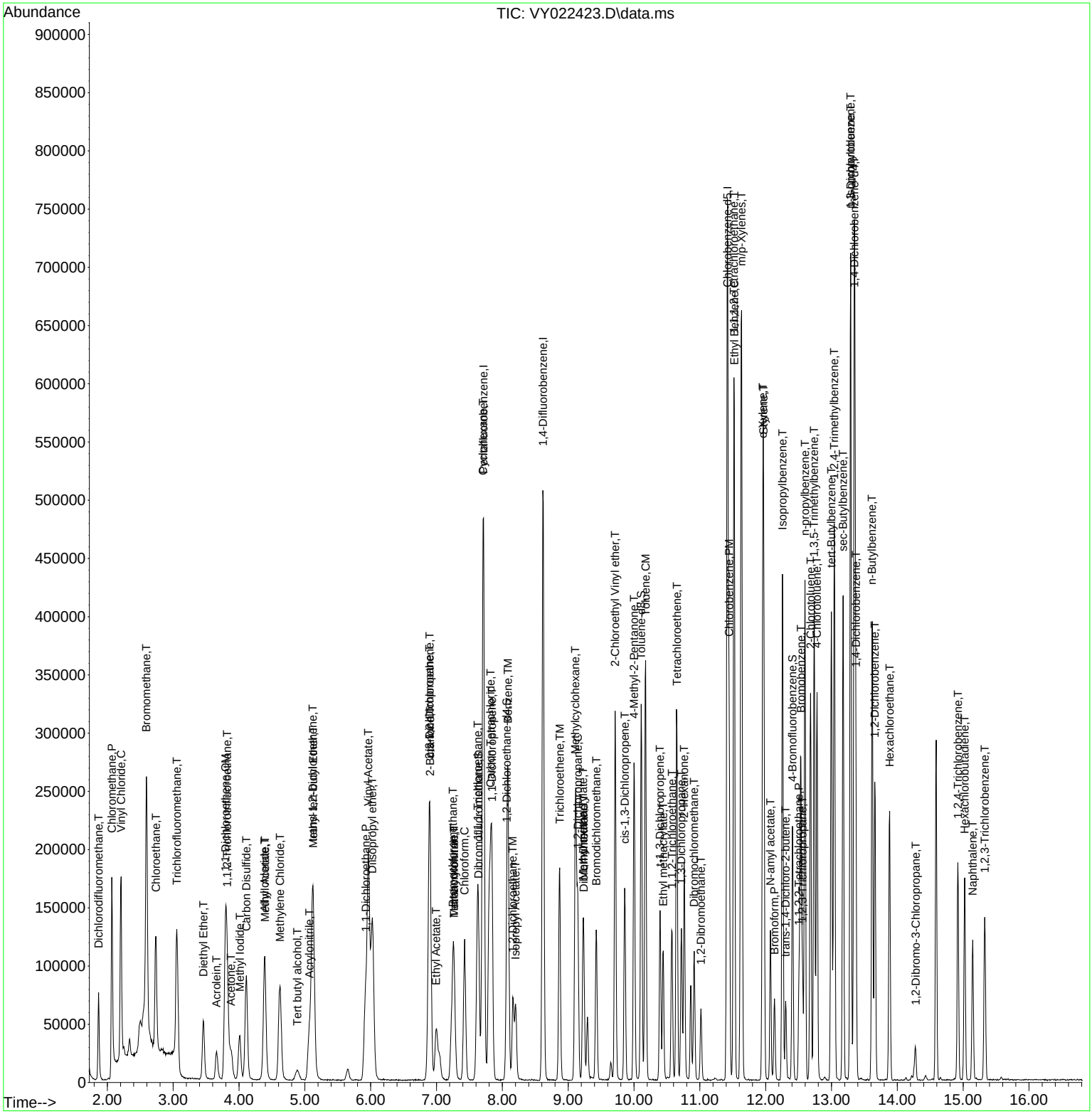
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

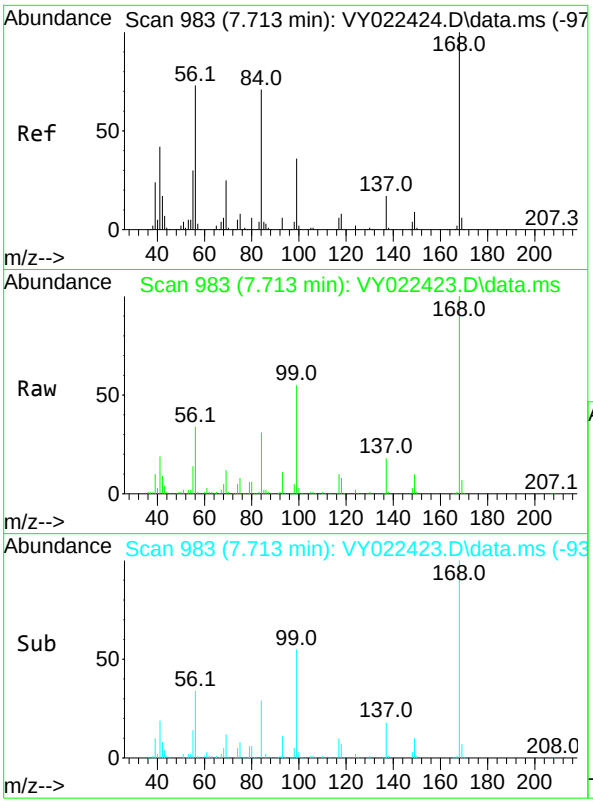
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022423.D
Acq On : 27 May 2025 09:36
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Quant Time: May 28 15:23:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration



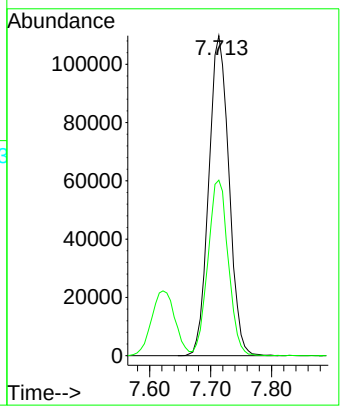


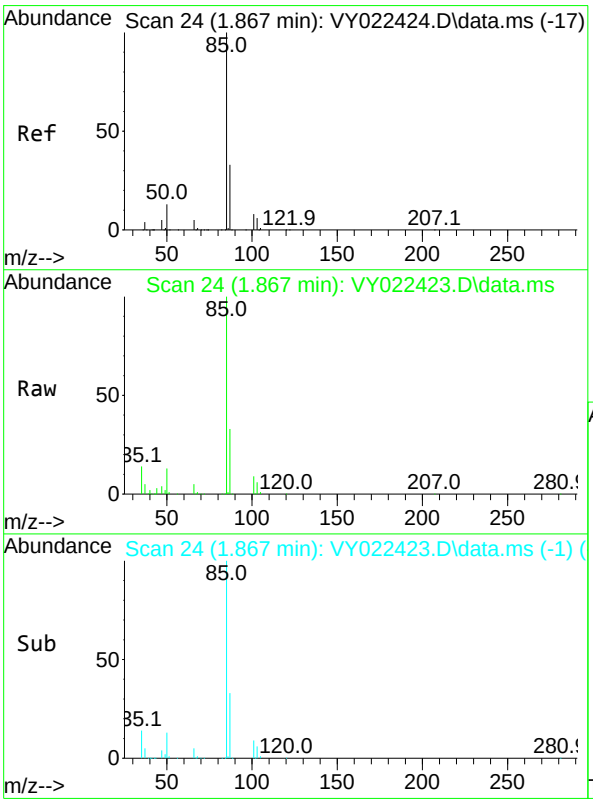
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion:168 Resp: 252702

Ion	Ratio	Lower	Upper
168	100		
99	54.8	44.7	67.1

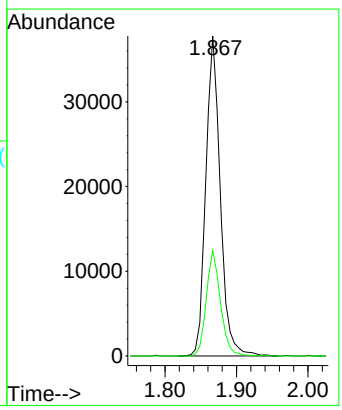


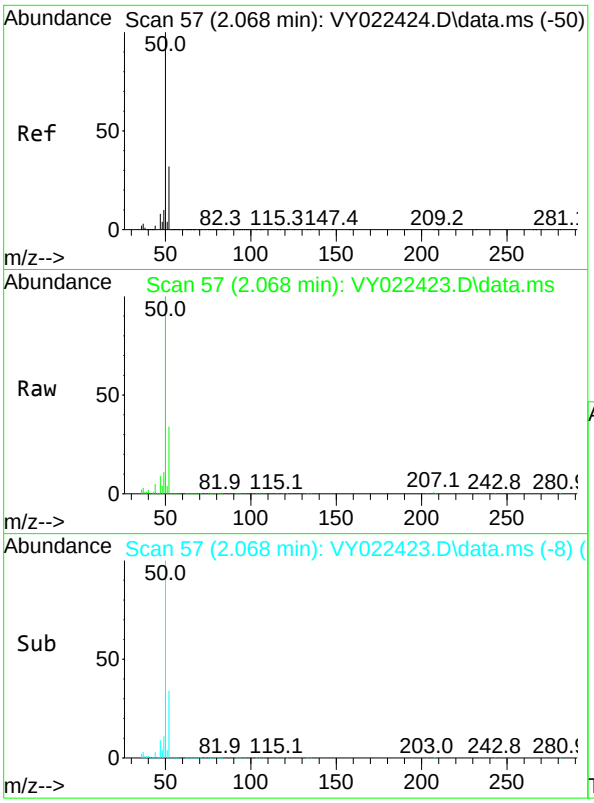


#2
Dichlorodifluoromethane
Concen: 22.059 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 85 Resp: 53184

Ion	Ratio	Lower	Upper
85	100		
87	33.0	16.4	49.2



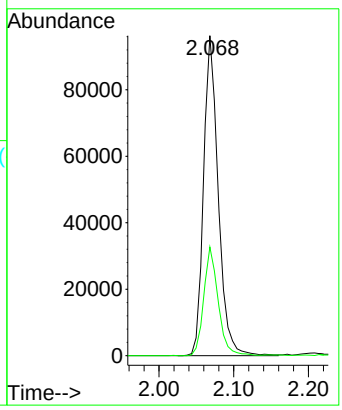


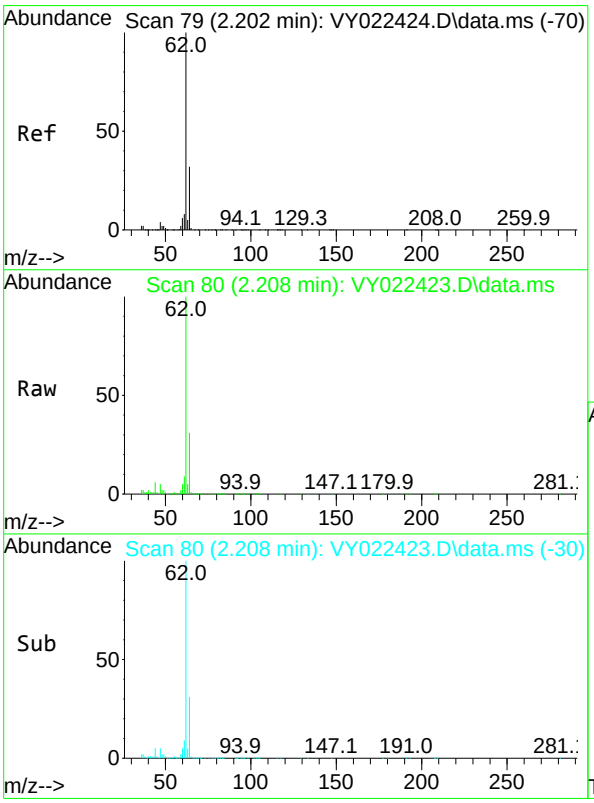
#3
Chloromethane
Concen: 22.162 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 50 Resp: 131430

Ion	Ratio	Lower	Upper
50	100		
52	34.0	25.5	38.3

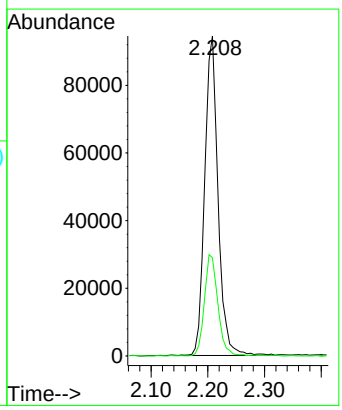


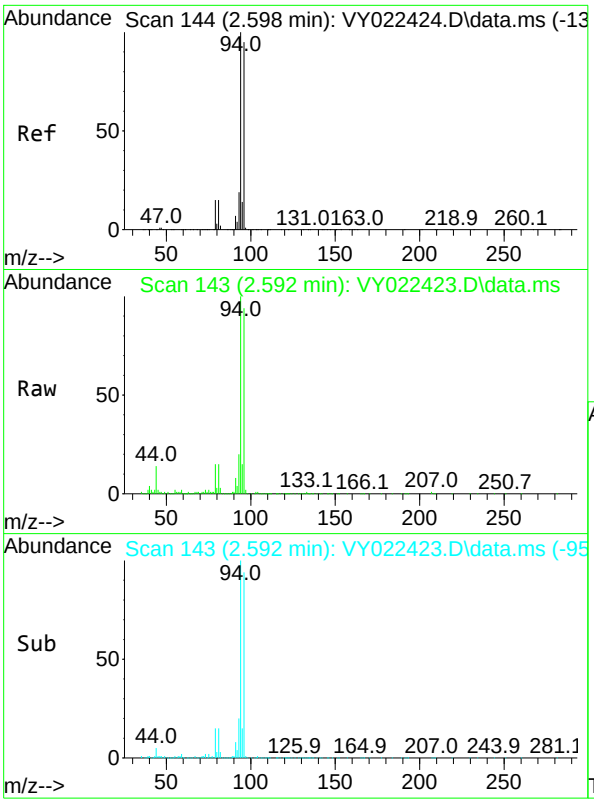


#4
Vinyl Chloride
Concen: 21.354 ug/l
RT: 2.208 min Scan# 80
Delta R.T. 0.006 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 62 Resp: 153844

Ion	Ratio	Lower	Upper
62	100		
64	30.7	26.0	39.0



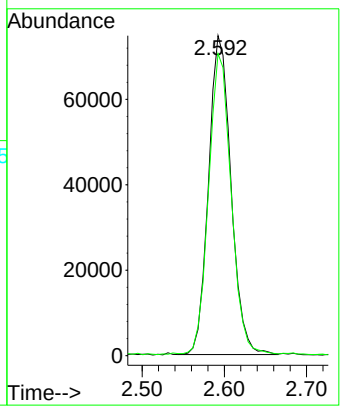


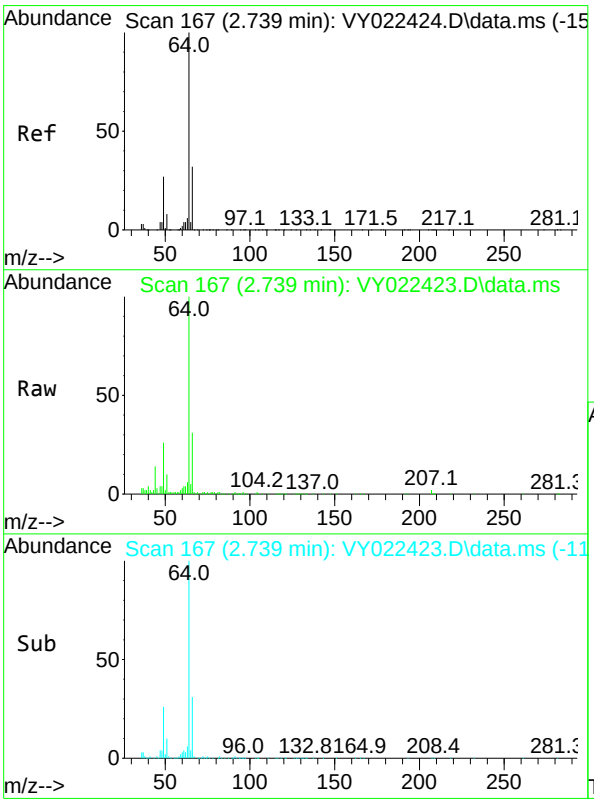
#5
Bromomethane
Concen: 21.573 ug/l
RT: 2.592 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 94 Resp: 141241

Ion	Ratio	Lower	Upper
94	100		
96	94.1	76.0	114.0

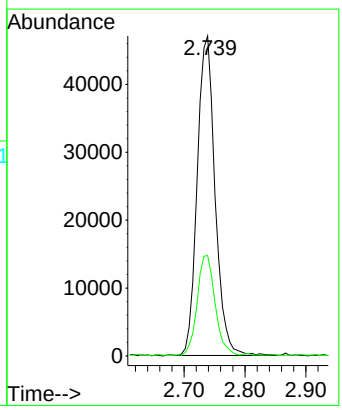


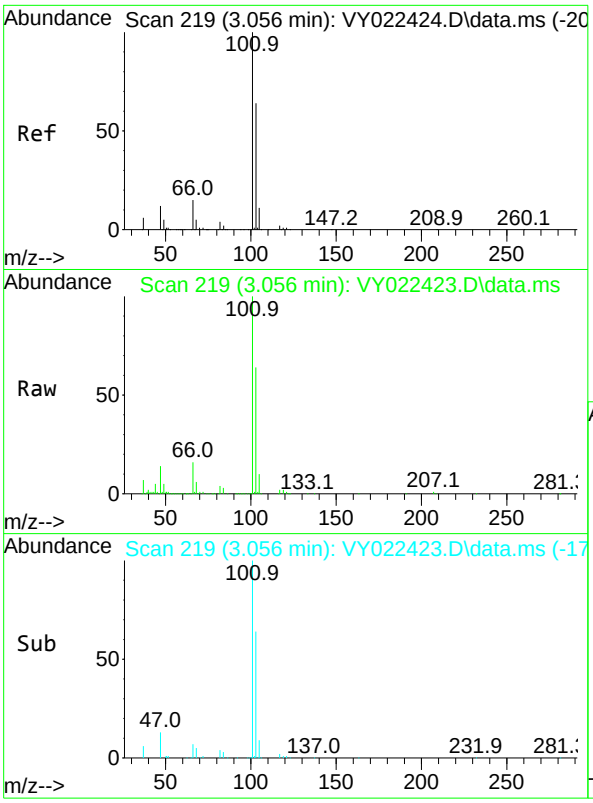


#6
Chloroethane
Concen: 20.373 ug/l
RT: 2.739 min Scan# 167
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 64 Resp: 95915

Ion	Ratio	Lower	Upper
64	100		
66	31.2	25.9	38.9



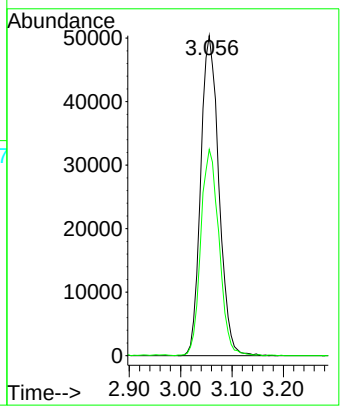


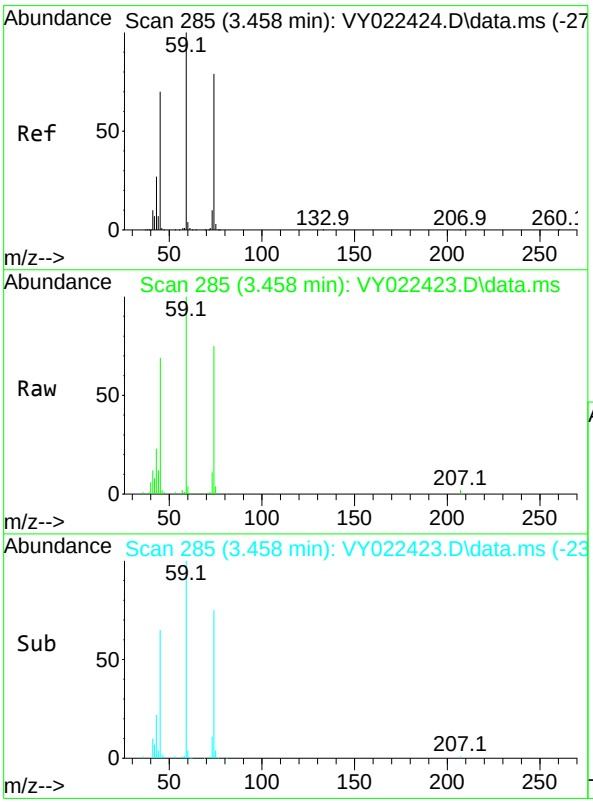
#7
Trichlorofluoromethane
Concen: 20.326 ug/l
RT: 3.056 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion:101 Resp: 123550

Ion	Ratio	Lower	Upper
101	100		
103	64.4	50.9	76.3

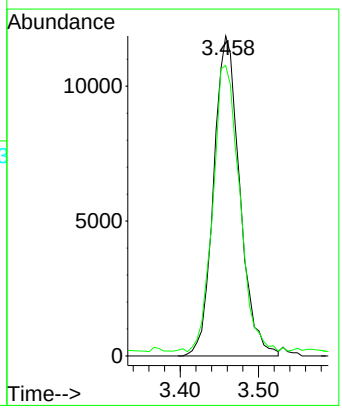


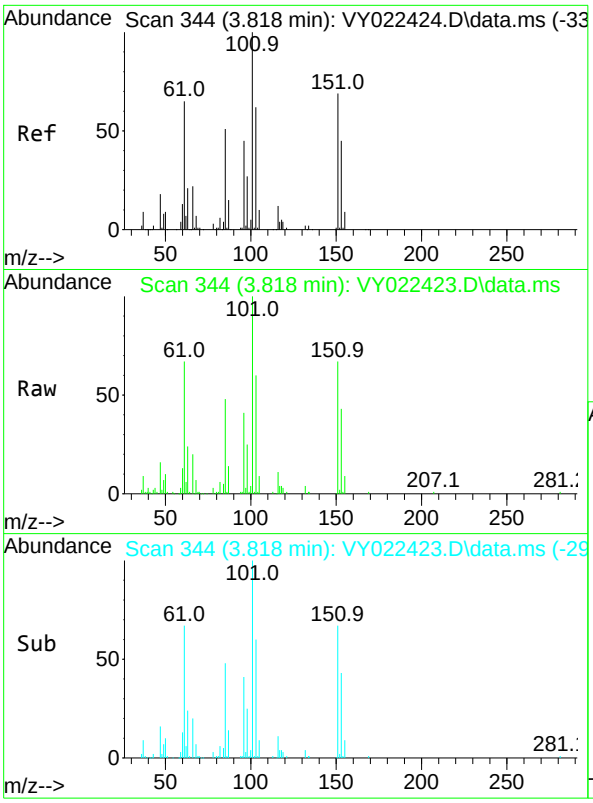


#8
Diethyl Ether
Concen: 19.575 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 74 Resp: 27436

Ion	Ratio	Lower	Upper
74	100		
45	91.3	44.9	134.5



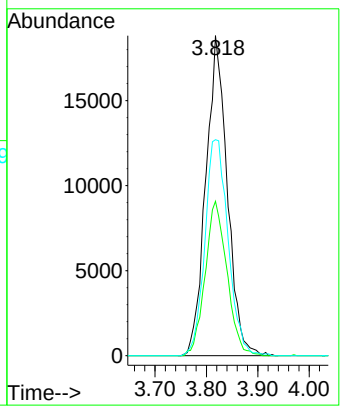


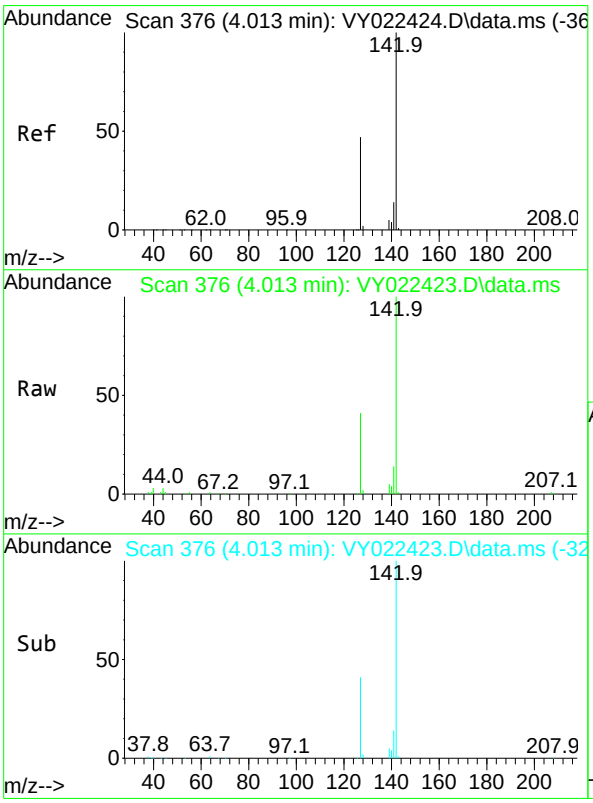
#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.503 ug/l
RT: 3.818 min Scan# 34
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion:101 Resp: 54677

Ion	Ratio	Lower	Upper
101	100		
85	48.9	39.2	58.8
151	73.3	58.8	88.2

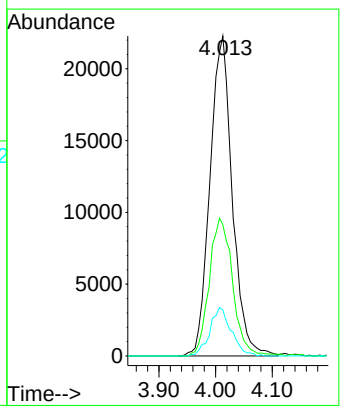


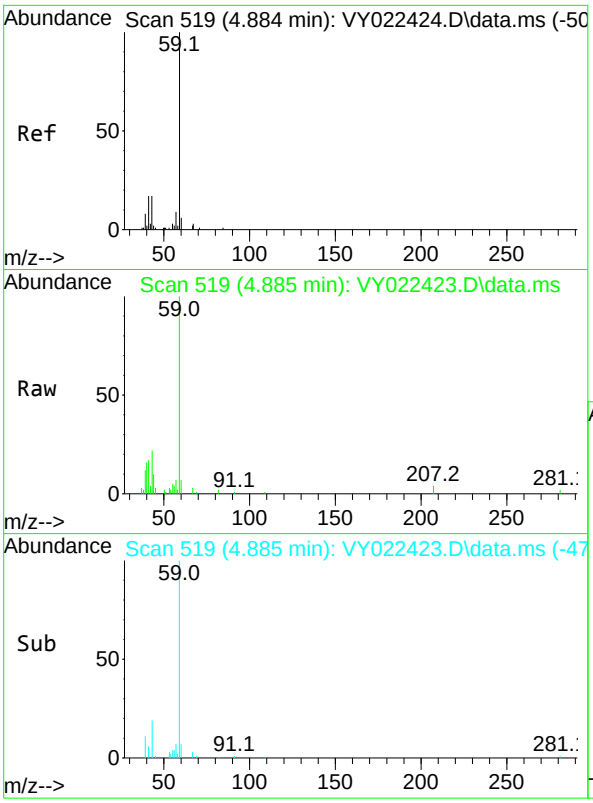


#10
Methyl Iodide
Concen: 20.286 ug/l
RT: 4.013 min Scan# 376
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion:142 Resp: 61032

Ion	Ratio	Lower	Upper
142	100		
127	45.1	36.2	54.4
141	14.5	11.6	17.4



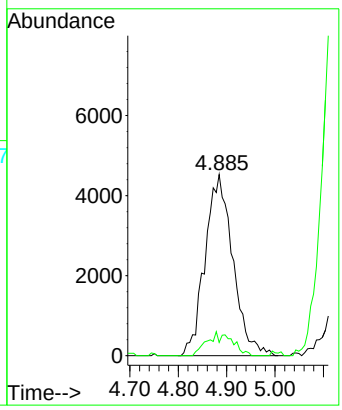


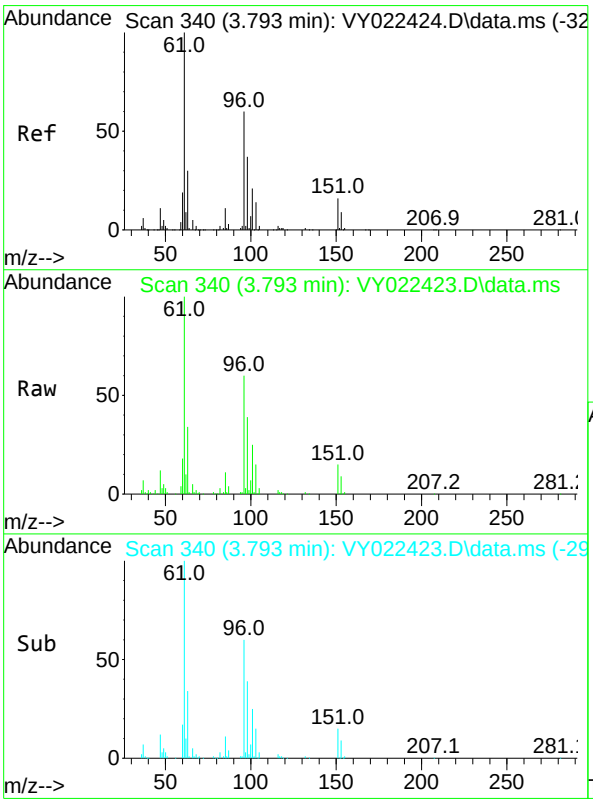
#11
Tert butyl alcohol
Concen: 96.467 ug/l
RT: 4.885 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 59 Resp: 18099

Ion	Ratio	Lower	Upper
59	100		
57	5.9	9.1	13.7#

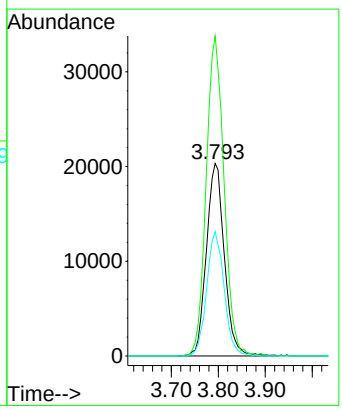


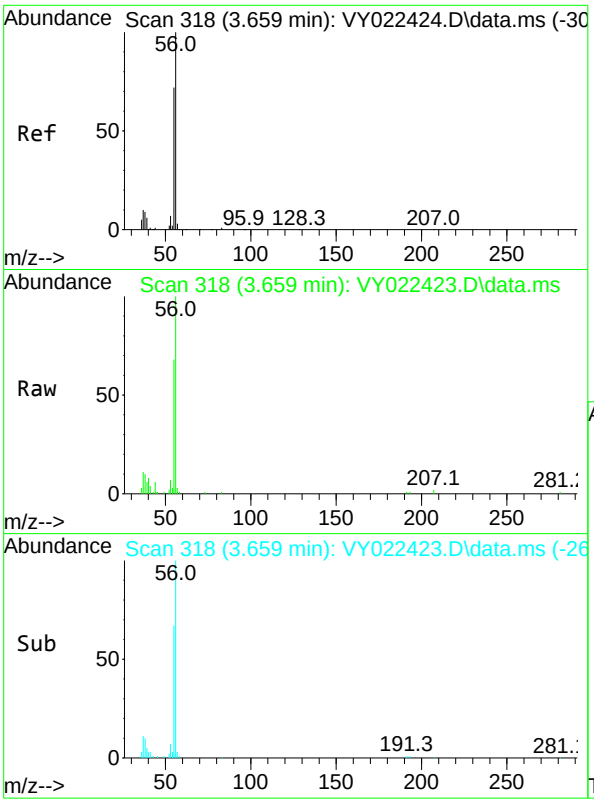


#12
1,1-Dichloroethene
Concen: 20.347 ug/l
RT: 3.793 min Scan# 340
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 96 Resp: 53871

Ion	Ratio	Lower	Upper
96	100		
61	166.2	134.1	201.1
98	64.6	50.2	75.2



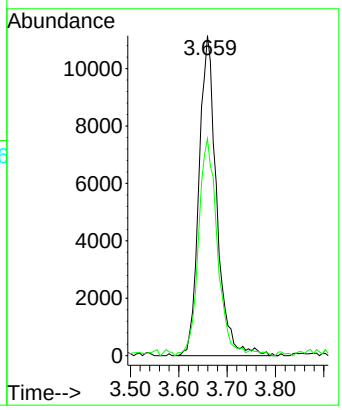


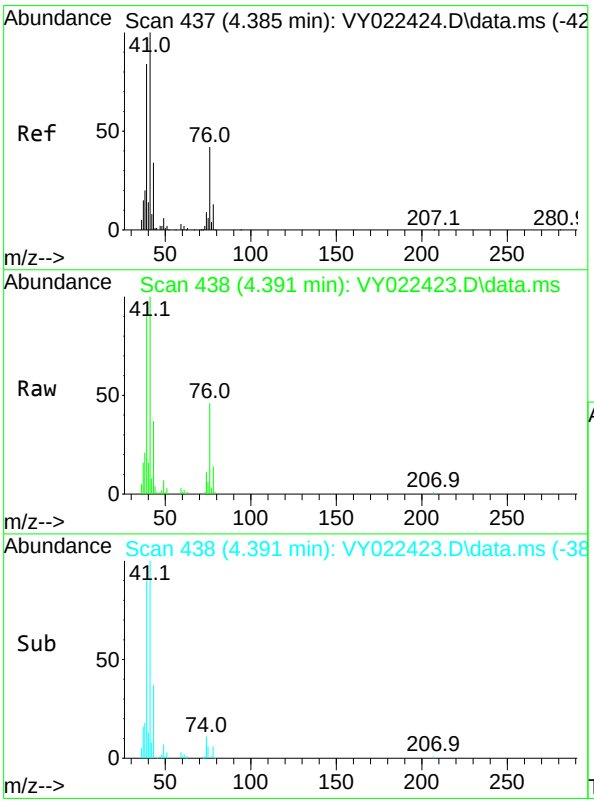
#13
Acrolein
Concen: 100.498 ug/l
RT: 3.659 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 56 Resp: 28252

Ion	Ratio	Lower	Upper
56	100		
55	71.9	56.5	84.7

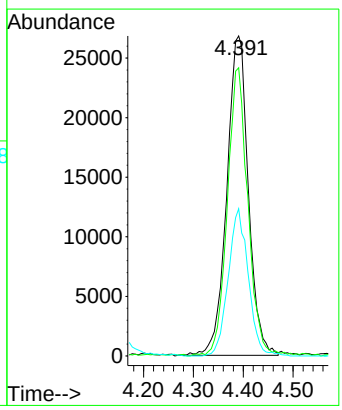


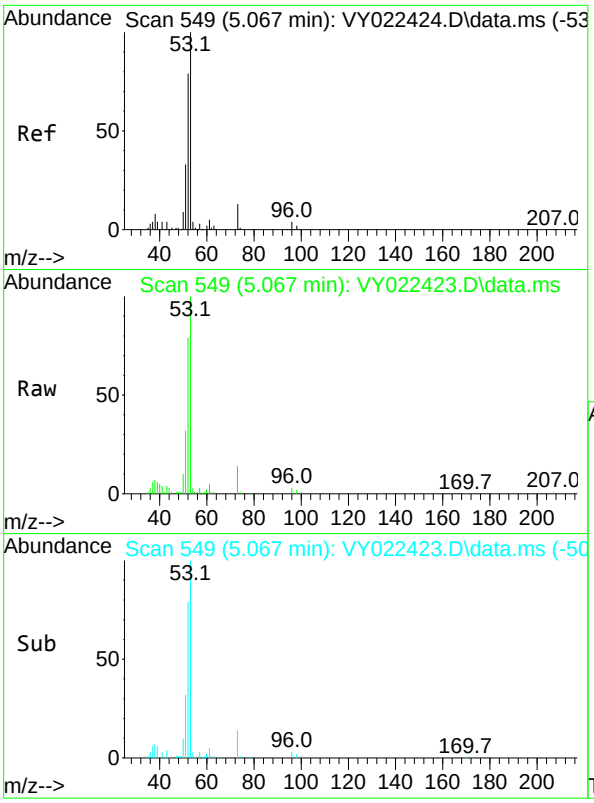


#14
Allyl chloride
Concen: 20.200 ug/l
RT: 4.391 min Scan# 438
Delta R.T. 0.006 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 41 Resp: 80449

Ion	Ratio	Lower	Upper
41	100		
39	86.2	66.6	100.0
76	43.0	33.7	50.5



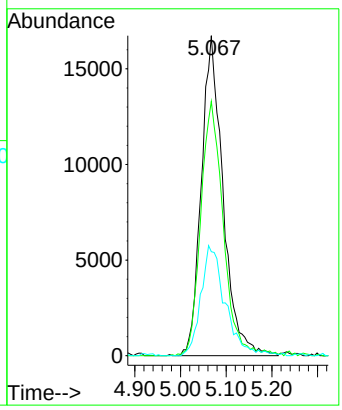


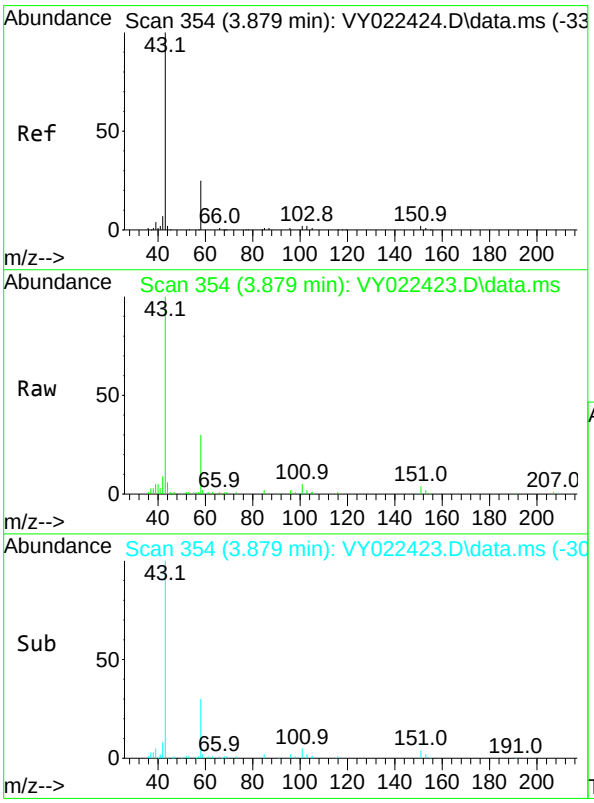
#15
Acrylonitrile
Concen: 97.719 ug/l
RT: 5.067 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 53 Resp: 55206

Ion	Ratio	Lower	Upper
53	100		
52	81.6	65.1	97.7
51	37.9	30.0	45.0

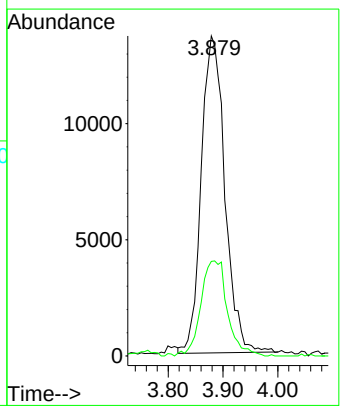


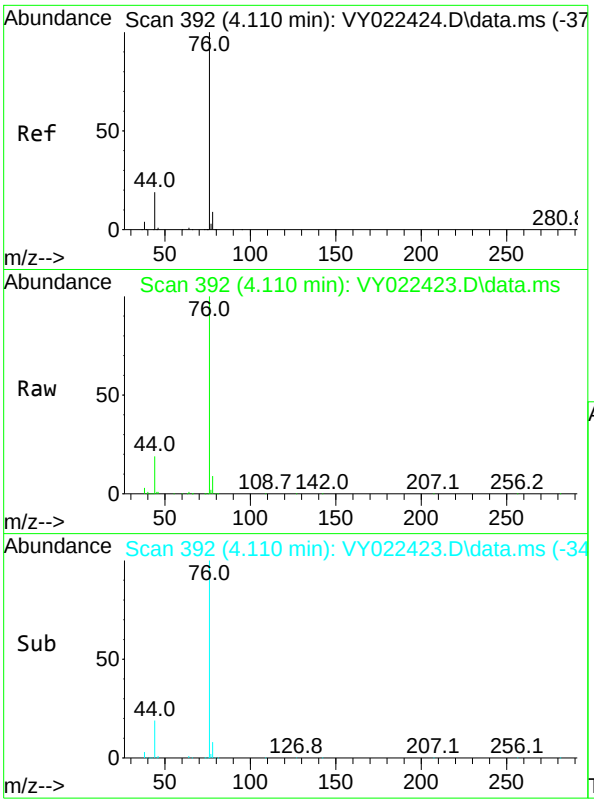


#16
Acetone
Concen: 93.210 ug/l
RT: 3.879 min Scan# 354
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 43 Resp: 40769

Ion	Ratio	Lower	Upper
43	100		
58	29.9	20.6	30.8



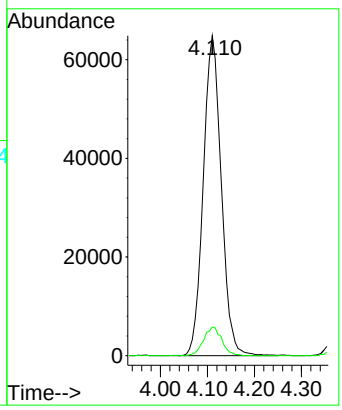


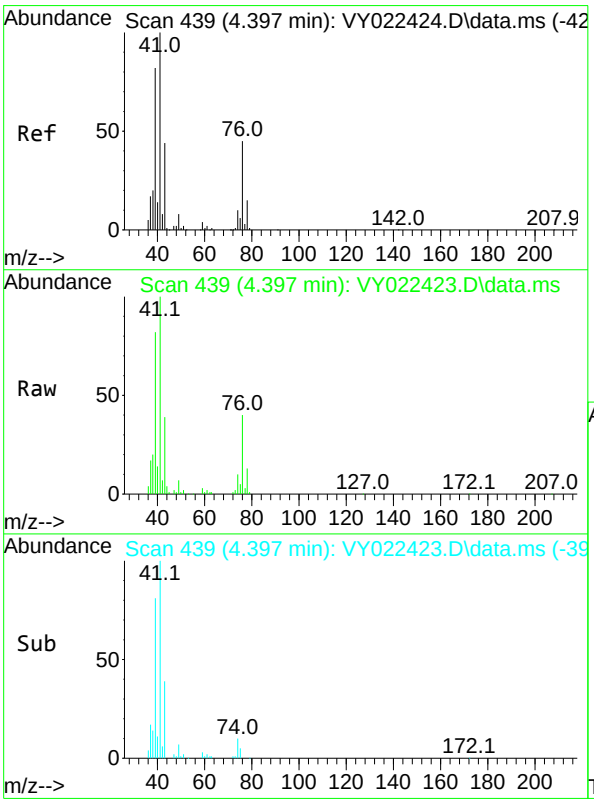
#17
Carbon Disulfide
Concen: 20.423 ug/l
RT: 4.110 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 76 Resp: 172558

Ion	Ratio	Lower	Upper
76	100		
78	8.9	7.2	10.8

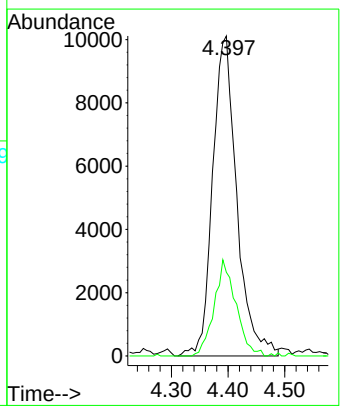


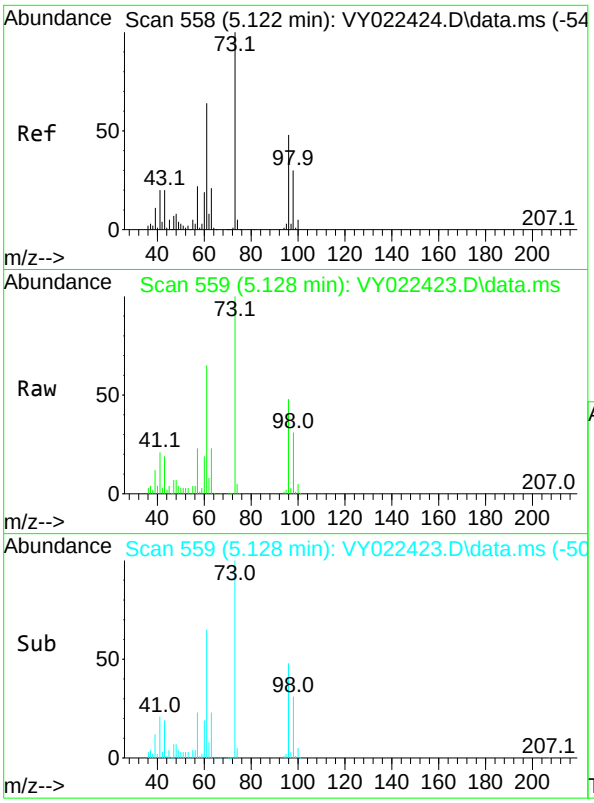


#18
Methyl Acetate
Concen: 18.275 ug/l
RT: 4.397 min Scan# 439
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 43 Resp: 29942

Ion	Ratio	Lower	Upper
43	100		
74	27.1	21.2	31.8



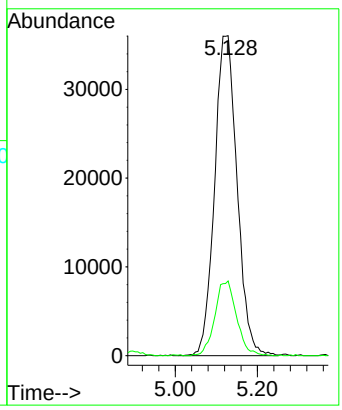


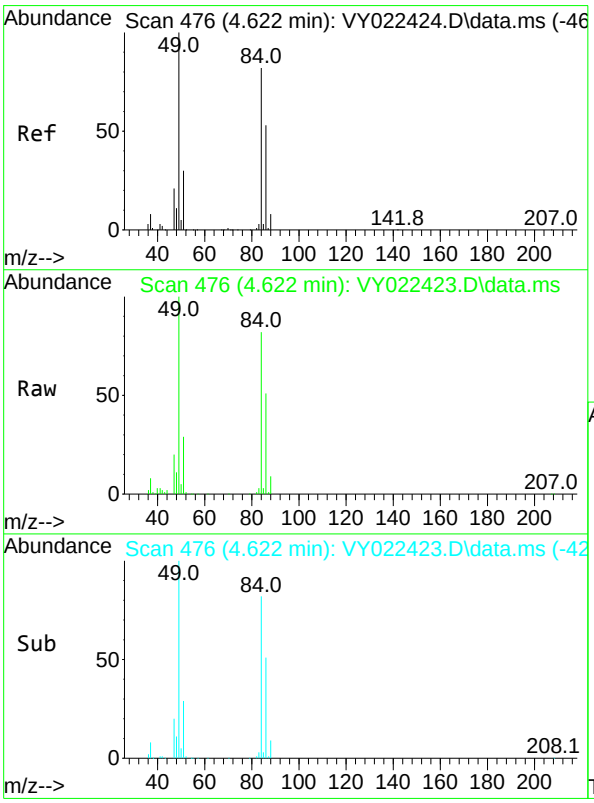
#19
Methyl tert-butyl Ether
Concen: 19.508 ug/l
RT: 5.128 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 73 Resp: 137123

Ion	Ratio	Lower	Upper
73	100		
57	23.3	17.7	26.5

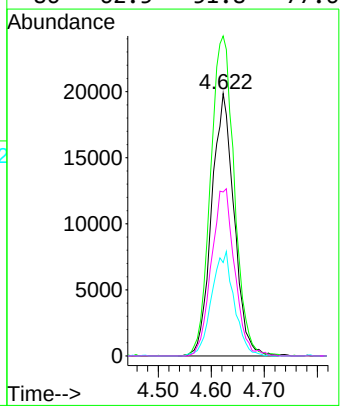


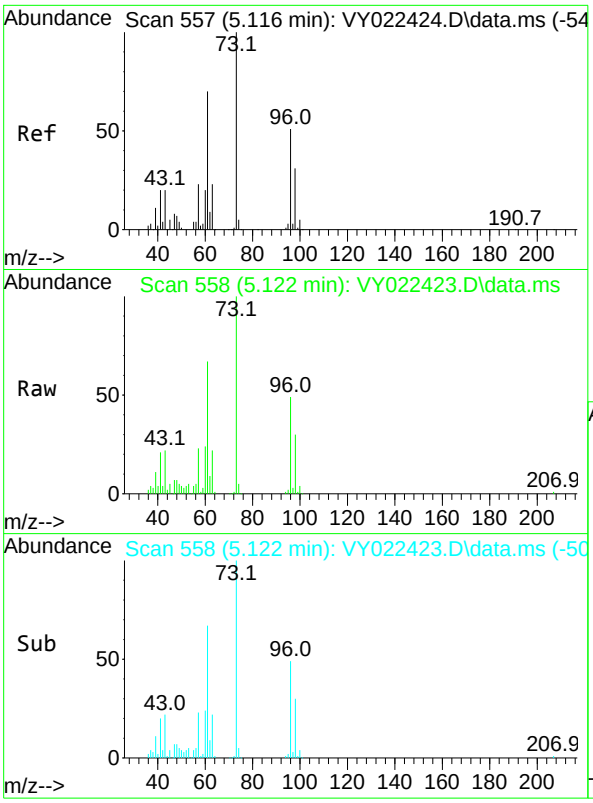


#20
Methylene Chloride
Concen: 18.912 ug/l
RT: 4.622 min Scan# 476
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 84 Resp: 58412

Ion	Ratio	Lower	Upper
84	100		
49	122.0	97.8	146.8
51	35.6	29.5	44.3
86	62.5	51.8	77.6



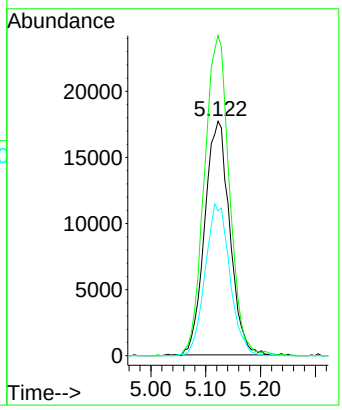


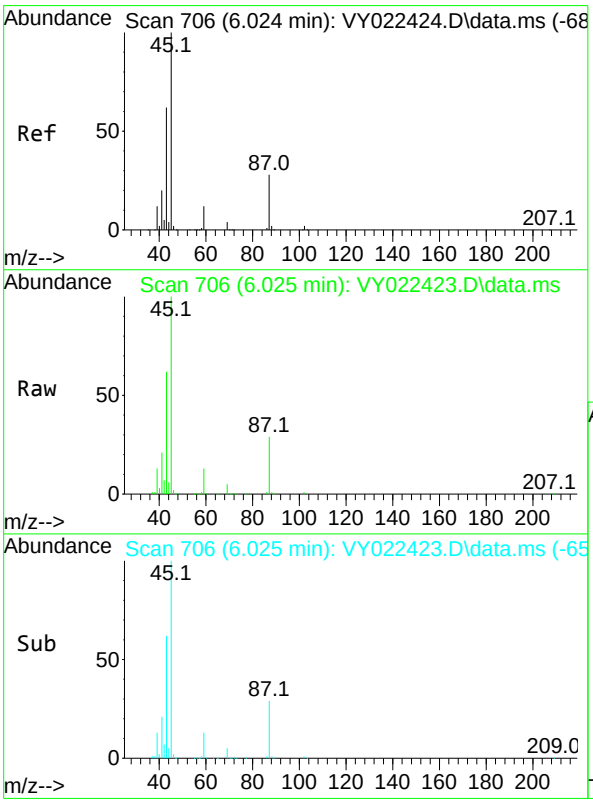
#21
trans-1,2-Dichloroethene
Concen: 19.411 ug/l
RT: 5.122 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 96 Resp: 56105

Ion	Ratio	Lower	Upper
96	100		
61	137.0	110.4	165.6
98	62.0	48.6	73.0

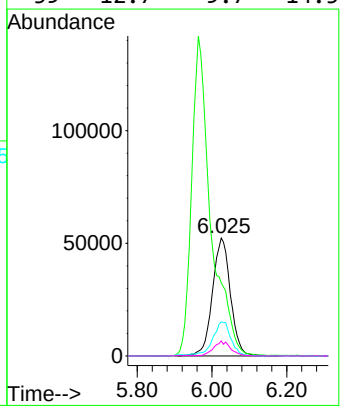


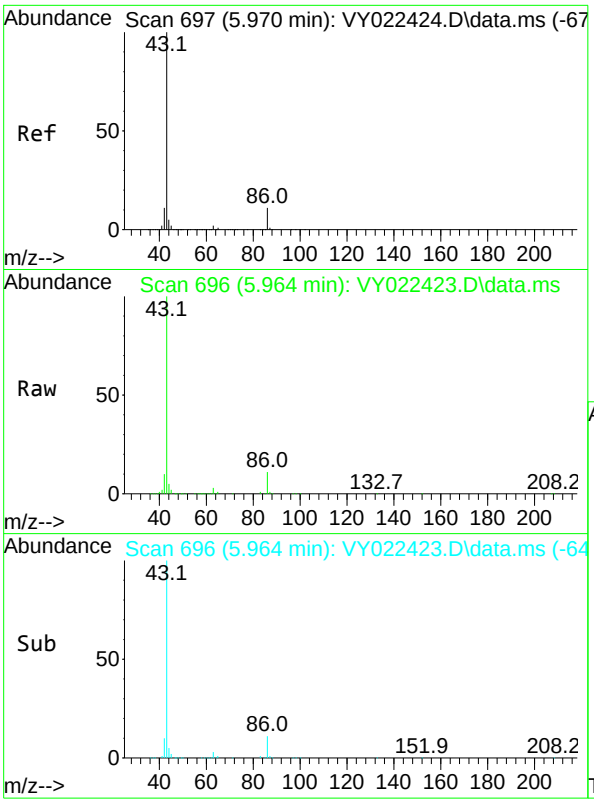


#22
Diisopropyl ether
Concen: 19.918 ug/l
RT: 6.025 min Scan# 706
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 45 Resp: 175073

Ion	Ratio	Lower	Upper
45	100		
43	61.3	49.8	74.8
87	28.9	23.0	34.6
59	12.7	9.7	14.5



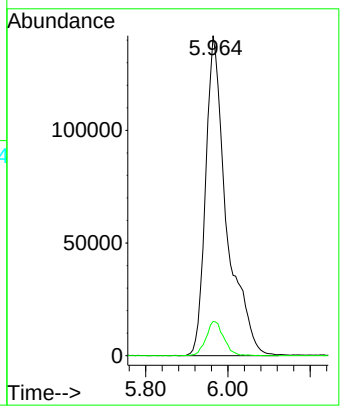


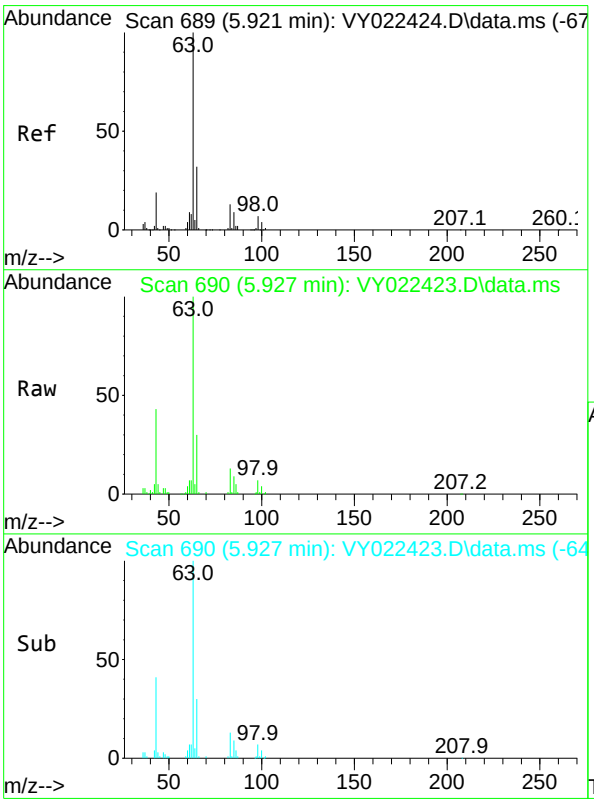
#23
Vinyl Acetate
Concen: 99.882 ug/l
RT: 5.964 min Scan# 6
Delta R.T. -0.006 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 504103

Ion	Ratio	Lower	Upper
43	100		
86	10.7	8.8	13.2

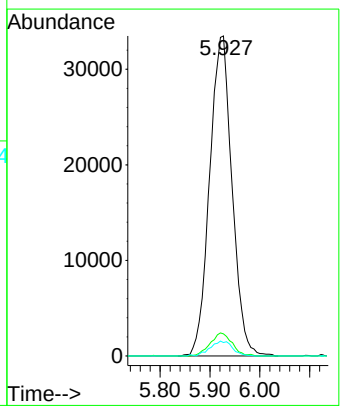


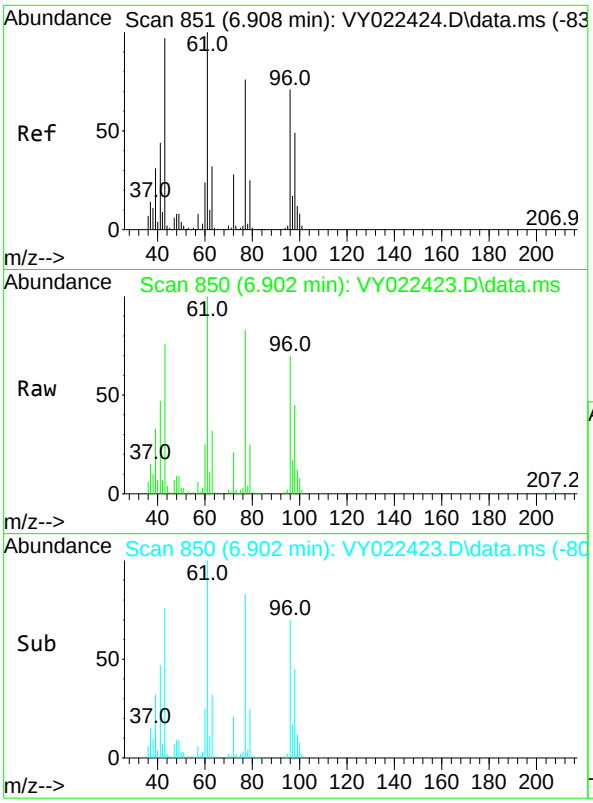


#24
1,1-Dichloroethane
Concen: 20.143 ug/l
RT: 5.927 min Scan# 690
Delta R.T. 0.006 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 63 Resp: 104623

Ion	Ratio	Lower	Upper
63	100		
98	6.9	3.5	10.5
100	4.2	2.1	6.5



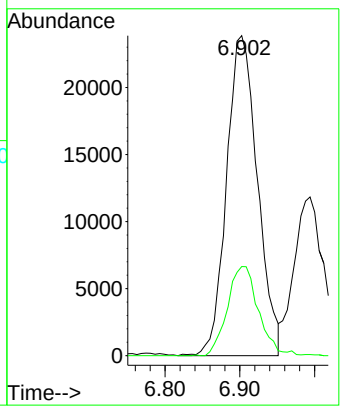


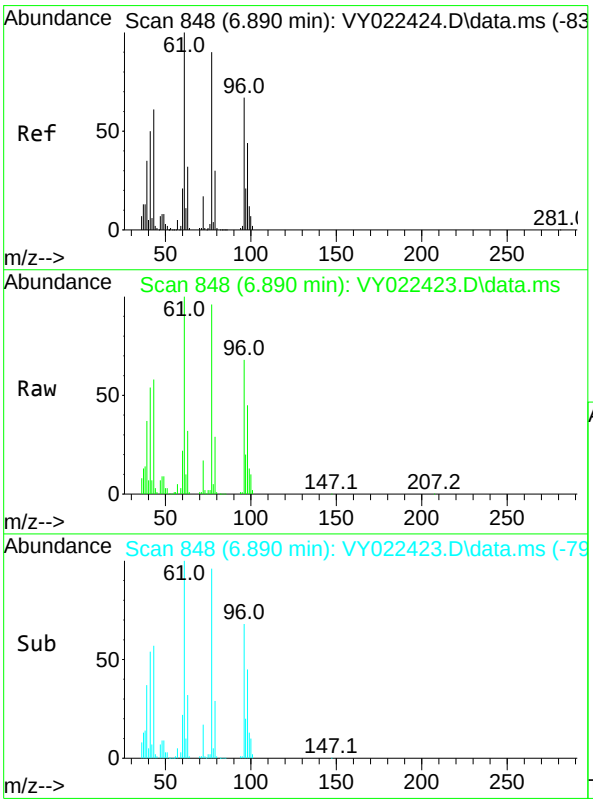
#25
2-Butanone
Concen: 94.358 ug/l
RT: 6.902 min Scan# 8
Delta R.T. -0.006 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 68733

Ion	Ratio	Lower	Upper
43	100		
72	27.9	22.8	34.2

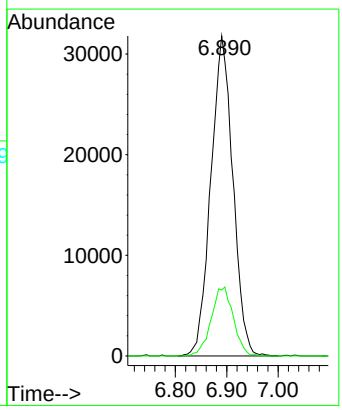


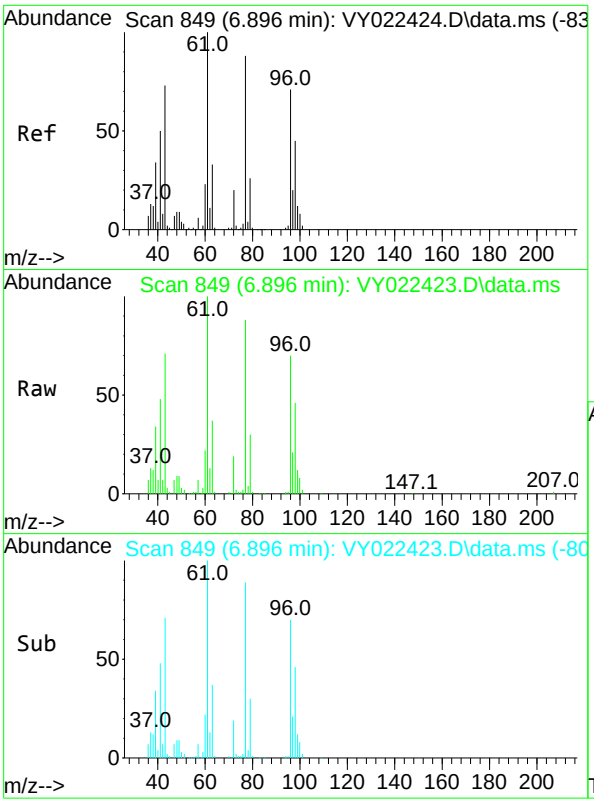


#26
2,2-Dichloropropane
Concen: 20.142 ug/l
RT: 6.890 min Scan# 848
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 77 Resp: 94730

Ion	Ratio	Lower	Upper
77	100		
97	21.7	11.6	34.7



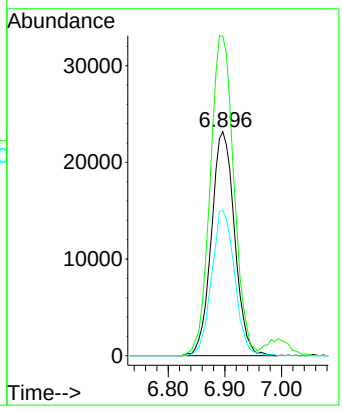


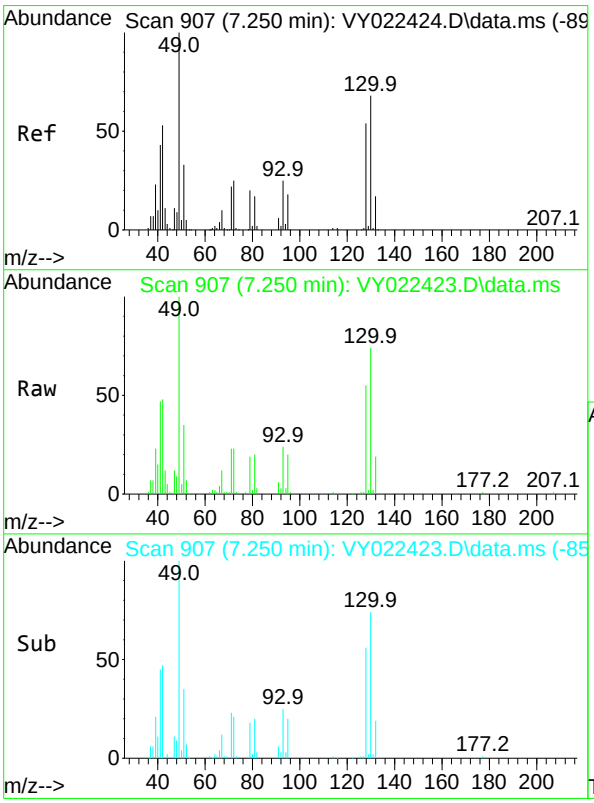
#27
cis-1,2-Dichloroethene
Concen: 19.640 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 96 Resp: 65719

Ion	Ratio	Lower	Upper
96	100		
61	146.3	0.0	292.0
98	64.6	0.0	131.0

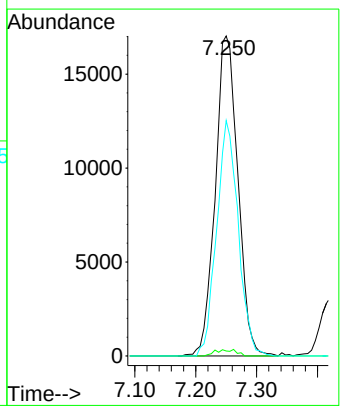


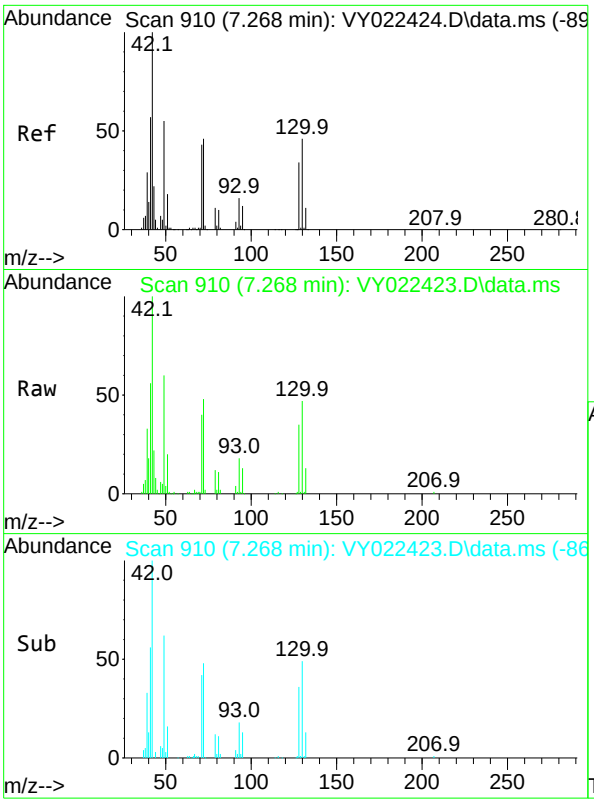


#28
Bromochloromethane
Concen: 20.266 ug/l
RT: 7.250 min Scan# 907
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 49 Resp: 43955

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	4.0
130	70.2	56.9	85.3



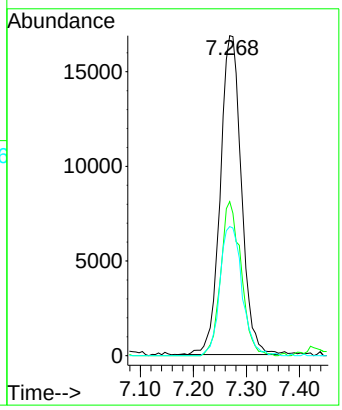


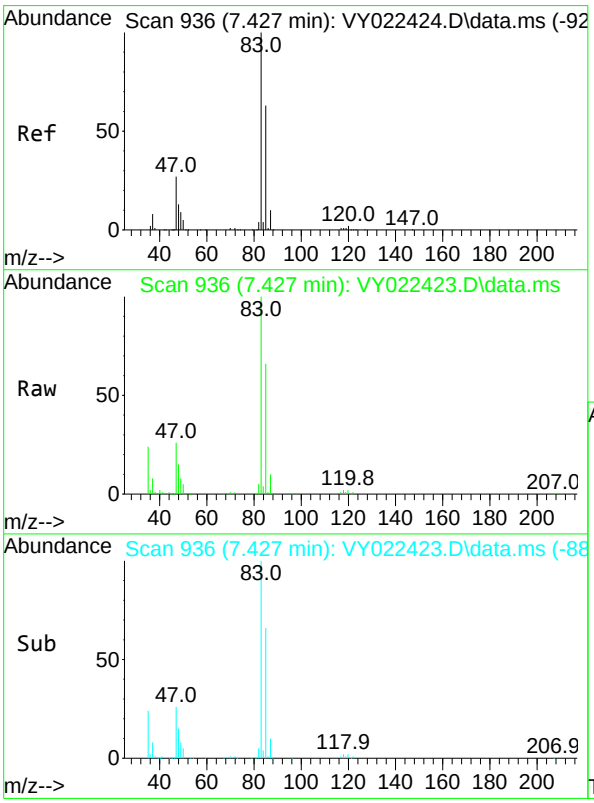
#29
Tetrahydrofuran
Concen: 95.946 ug/l
RT: 7.268 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 42 Resp: 46611

Ion	Ratio	Lower	Upper
42	100		
72	46.6	37.7	56.5
71	42.6	34.7	52.1

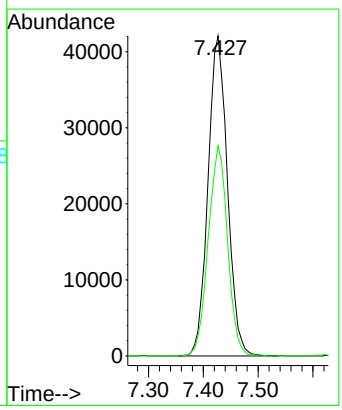


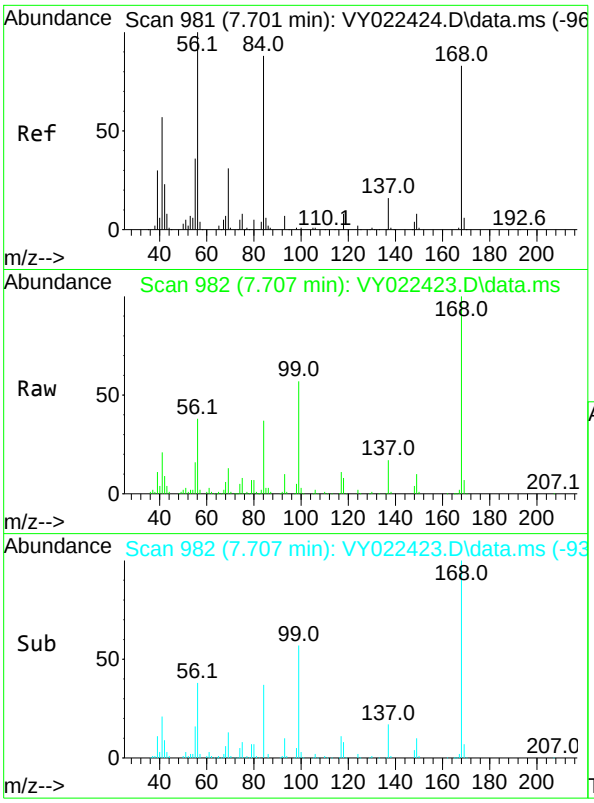


#30
Chloroform
Concen: 20.211 ug/l
RT: 7.427 min Scan# 936
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 83 Resp: 103440

Ion	Ratio	Lower	Upper
83	100		
85	65.7	50.1	75.1



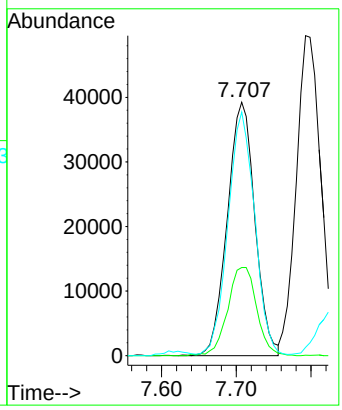


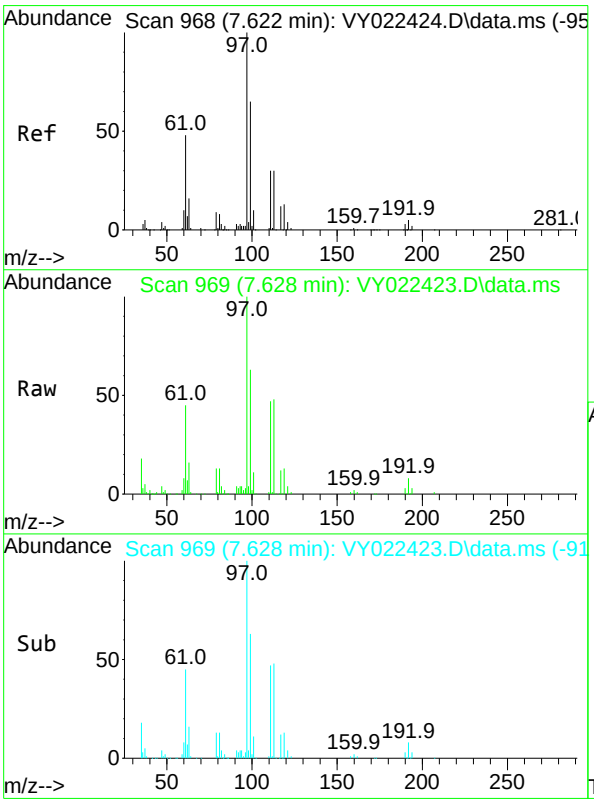
#31
Cyclohexane
Concen: 19.685 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 56 Resp: 100786

Ion	Ratio	Lower	Upper
56	100		
69	34.8	24.6	36.8
84	94.5	70.4	105.6

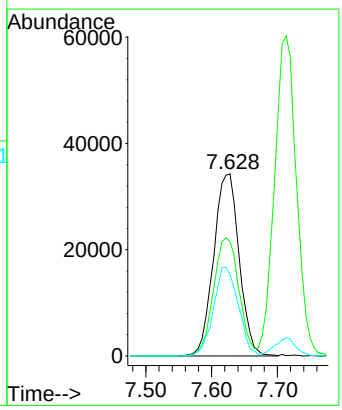


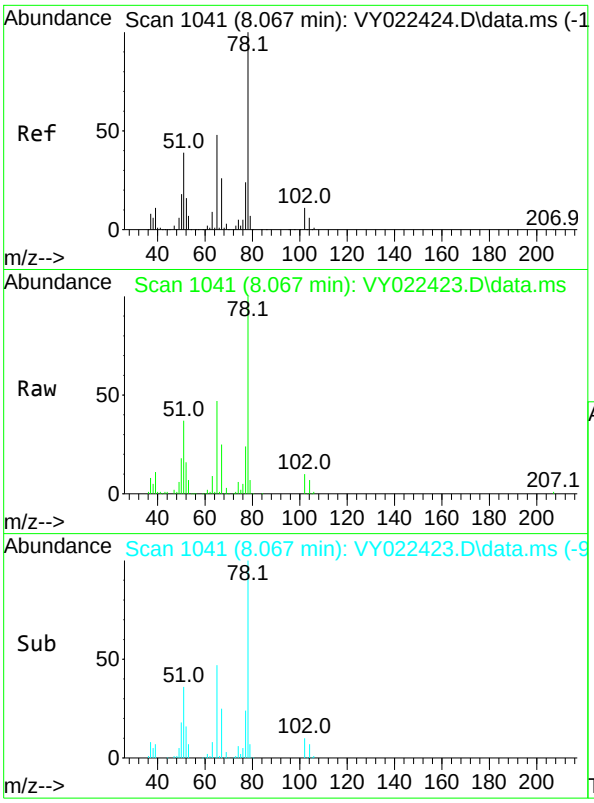


#32
1,1,1-Trichloroethane
Concen: 19.923 ug/l
RT: 7.628 min Scan# 969
Delta R.T. 0.006 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 97 Resp: 92540

Ion	Ratio	Lower	Upper
97	100		
99	64.6	51.3	76.9
61	47.2	37.3	55.9



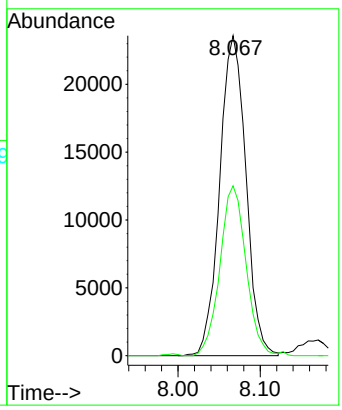


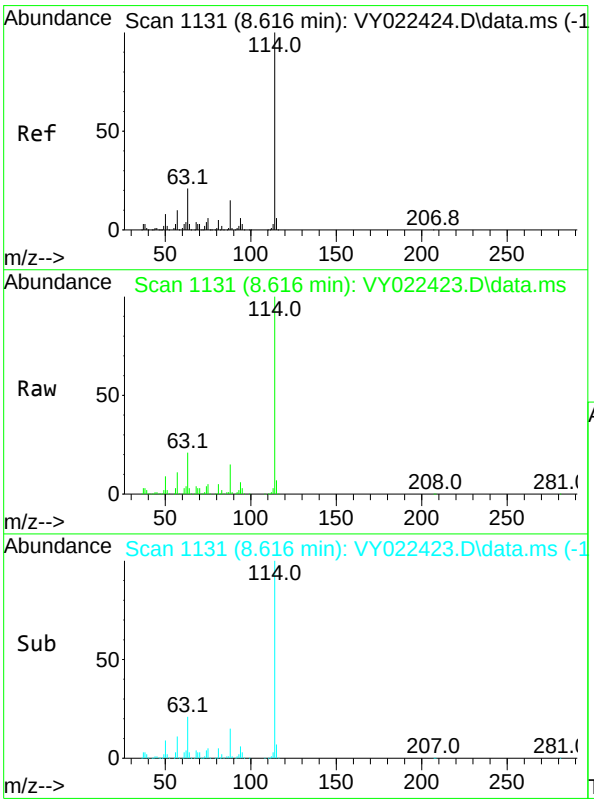
#33
1,2-Dichloroethane-d4
Concen: 19.622 ug/l
RT: 8.067 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 65 Resp: 52229

Ion	Ratio	Lower	Upper
65	100		
67	53.1	0.0	104.4

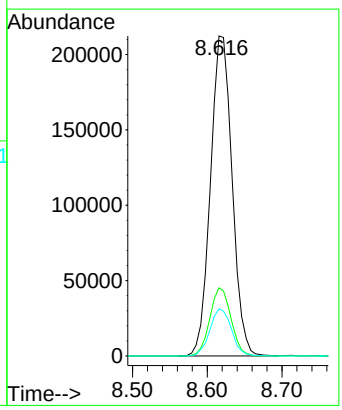


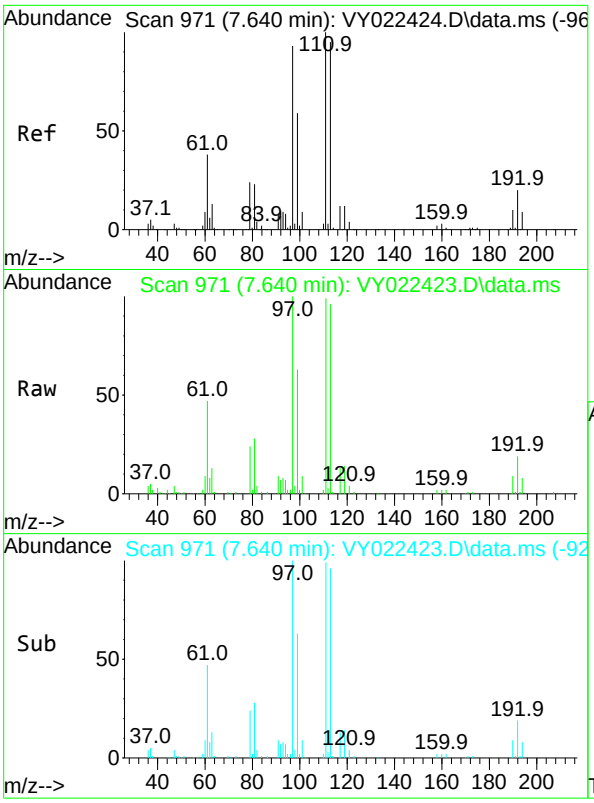


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion:114 Resp: 427651

Ion	Ratio	Lower	Upper
114	100		
63	21.3	0.0	42.6
88	14.7	0.0	29.4



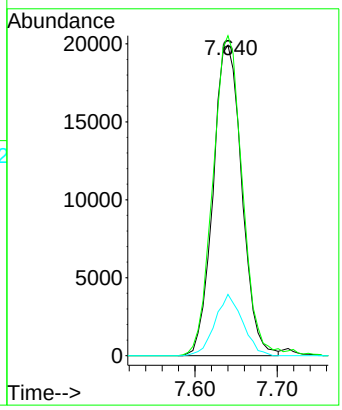


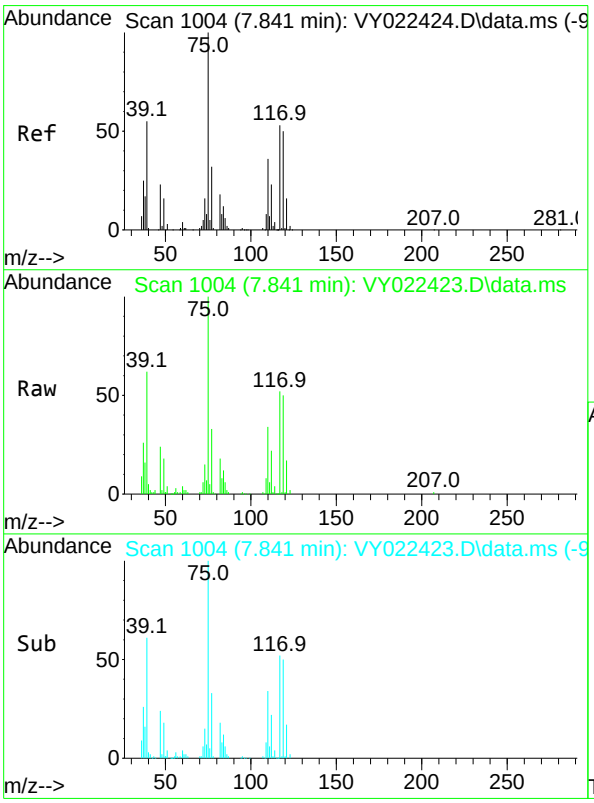
#35
Dibromofluoromethane
Concen: 19.331 ug/l
RT: 7.640 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion:113 Resp: 48414

Ion	Ratio	Lower	Upper
113	100		
111	106.3	82.4	123.6
192	19.0	15.2	22.8

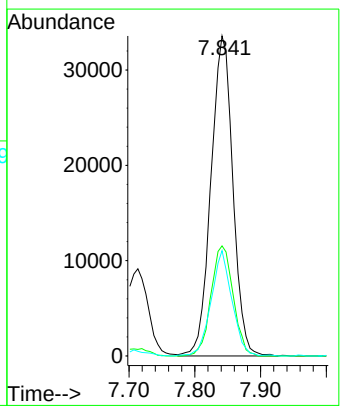


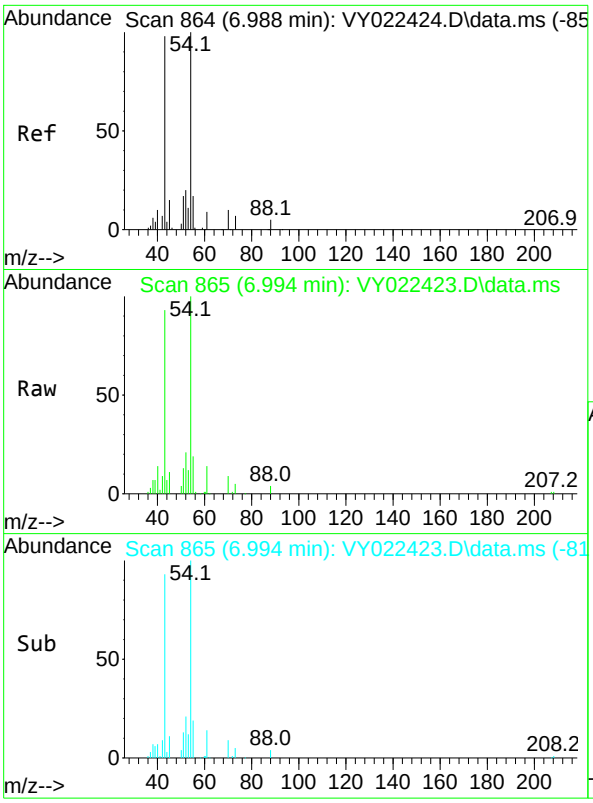


#36
1,1-Dichloropropene
Concen: 19.594 ug/l
RT: 7.841 min Scan# 1004
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 75 Resp: 77871

Ion	Ratio	Lower	Upper
75	100		
110	34.8	17.1	51.2
77	31.3	25.1	37.7



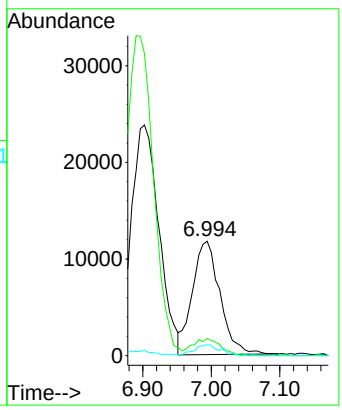


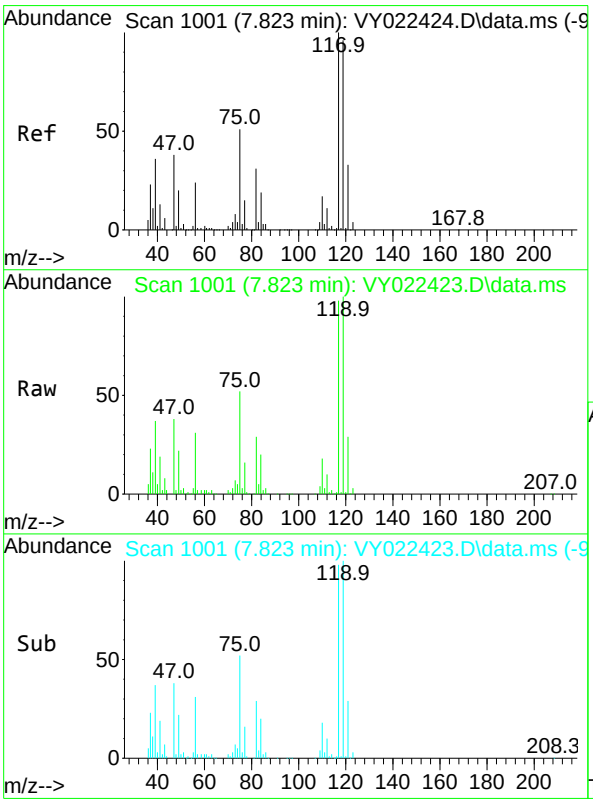
#37
Ethyl Acetate
Concen: 19.462 ug/l
RT: 6.994 min Scan# 8
Delta R.T. 0.006 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 32871

Ion	Ratio	Lower	Upper
43	100		
61	15.4	11.7	17.5
70	9.0	7.8	11.6

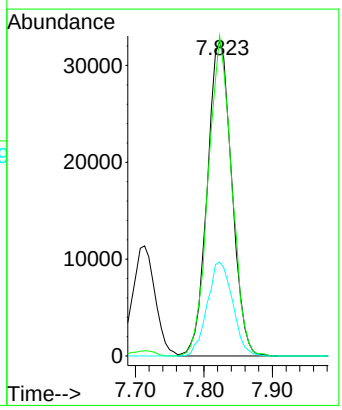


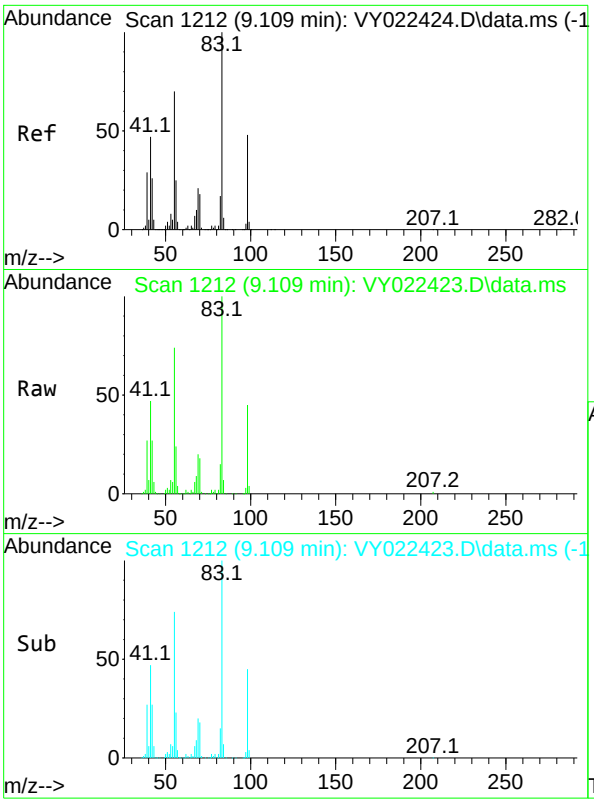


#38
Carbon Tetrachloride
Concen: 19.468 ug/l
RT: 7.823 min Scan# 1001
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion:117 Resp: 80594

Ion	Ratio	Lower	Upper
117	100		
119	101.7	76.3	114.5
121	29.8	26.1	39.1



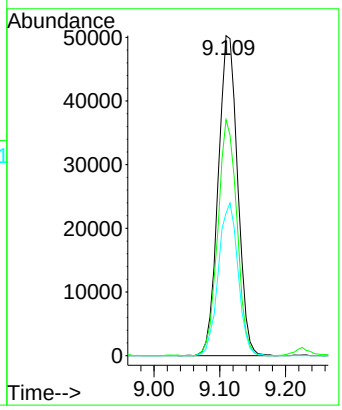


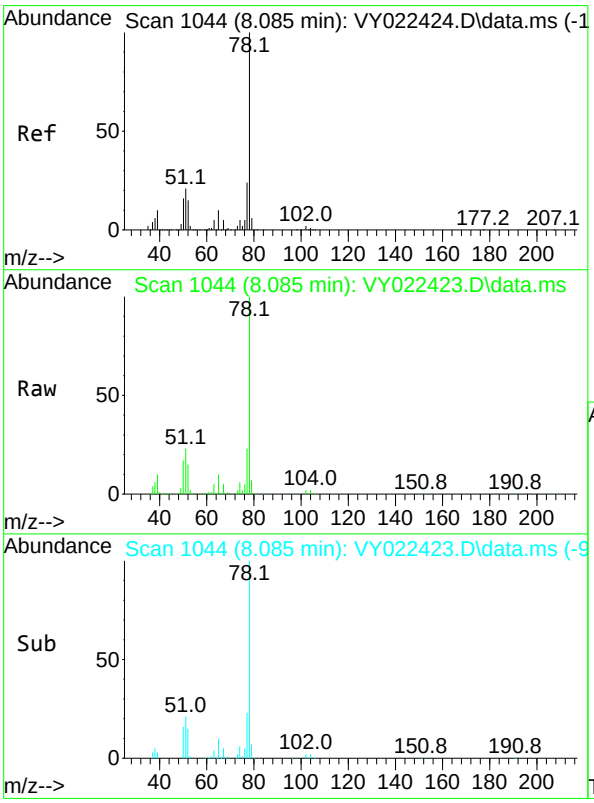
#39
Methylcyclohexane
Concen: 19.540 ug/l
RT: 9.109 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 83 Resp: 103224

Ion	Ratio	Lower	Upper
83	100		
55	73.7	56.2	84.2
98	44.5	38.4	57.6

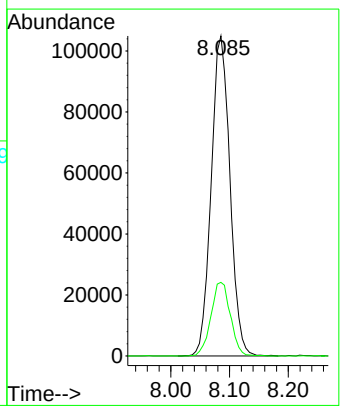


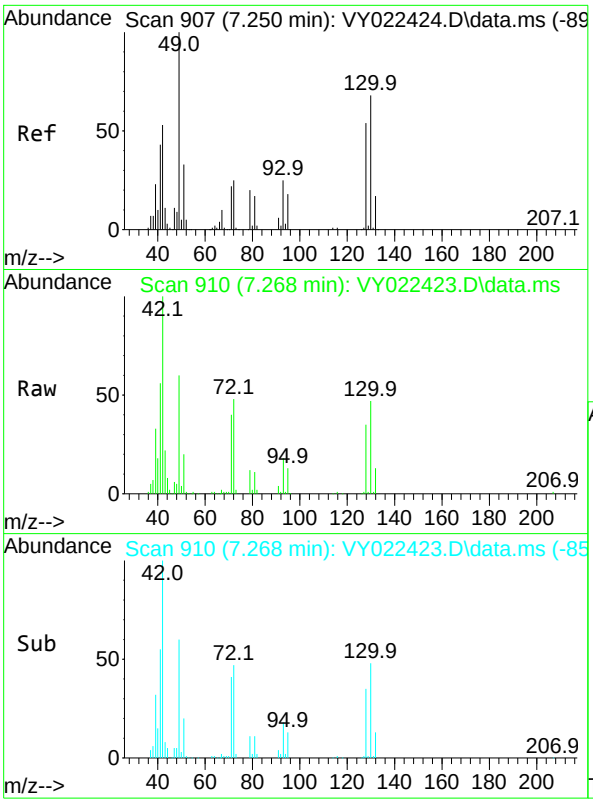


#40
Benzene
Concen: 19.670 ug/l
RT: 8.085 min Scan# 1044
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 78 Resp: 232606

Ion	Ratio	Lower	Upper
78	100		
77	23.0	19.4	29.2



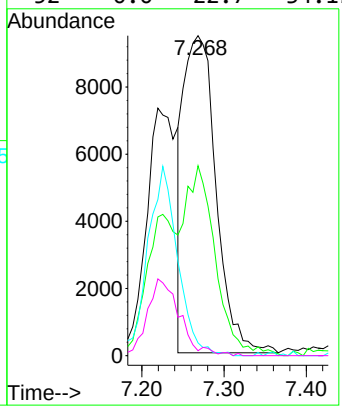


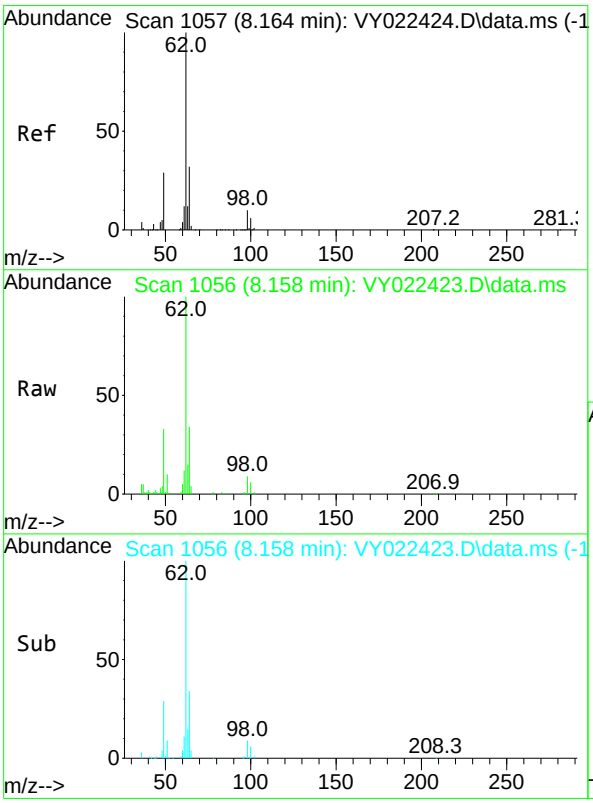
#41
Methacrylonitrile
Concen: 25.256 ug/l
RT: 7.268 min Scan# 91
Delta R.T. 0.018 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 41 Resp: 25890

Ion	Ratio	Lower	Upper
41	100		
39	56.6	40.4	60.6
67	0.0	53.0	79.4#
52	0.0	22.7	34.1#

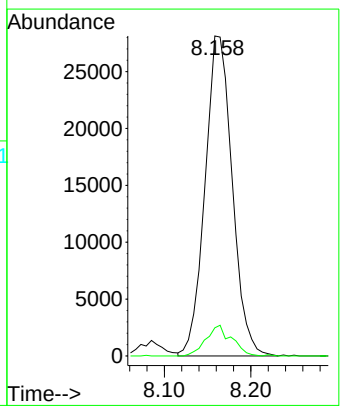


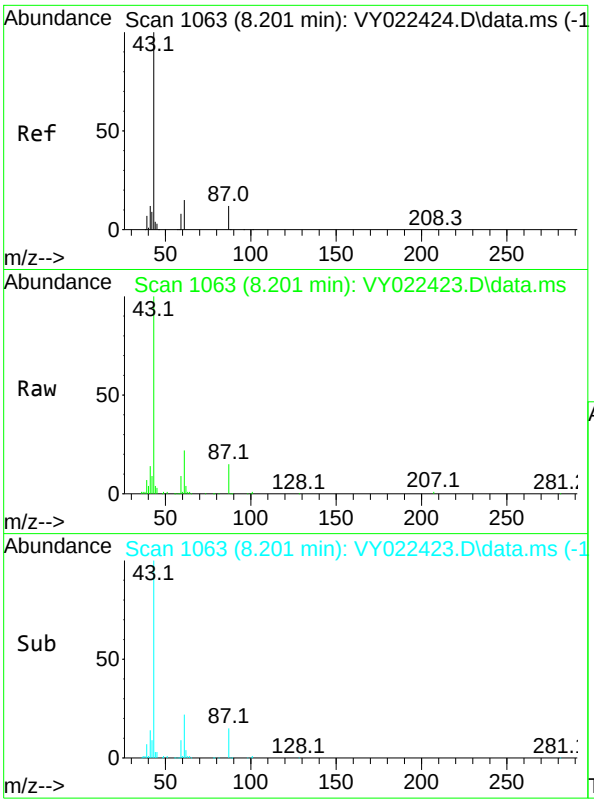


#42
1,2-Dichloroethane
Concen: 19.699 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. -0.006 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 62 Resp: 61523

Ion	Ratio	Lower	Upper
62	100		
98	9.0	0.0	18.4



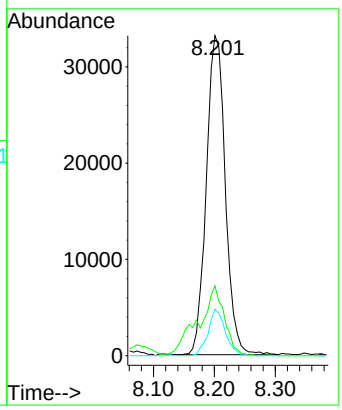


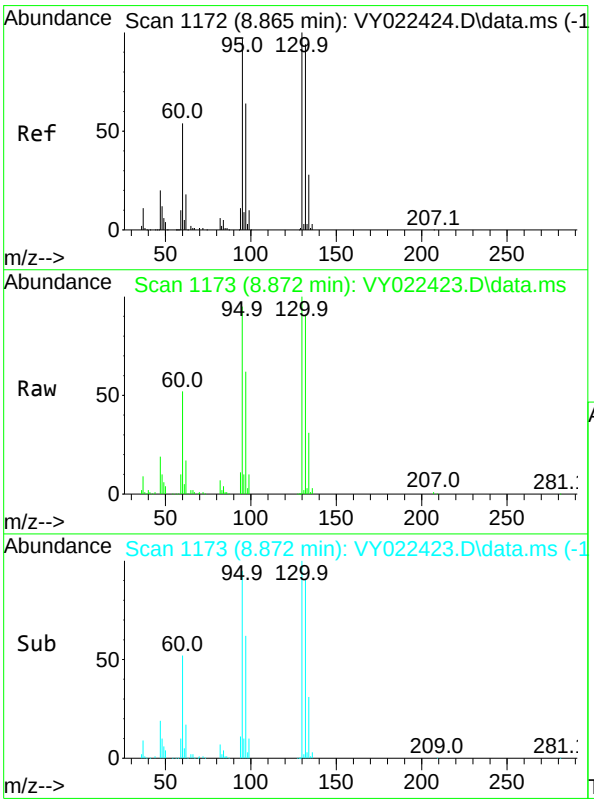
#43
Isopropyl Acetate
Concen: 19.483 ug/l
RT: 8.201 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 71905

Ion	Ratio	Lower	Upper
43	100		
61	30.1	15.4	23.0#
87	13.2	10.6	15.8

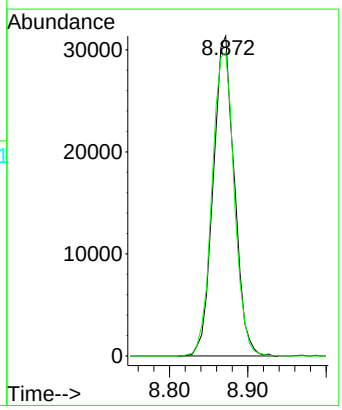


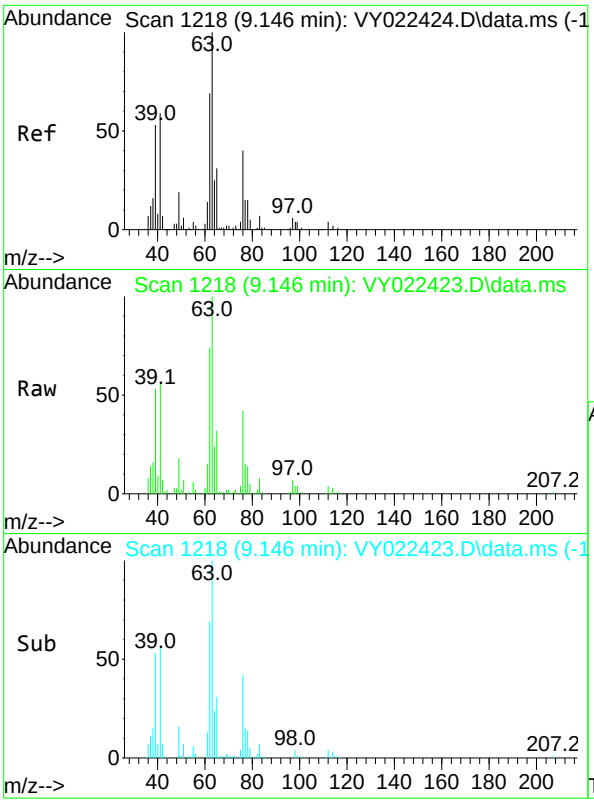


#44
Trichloroethene
Concen: 20.135 ug/l
RT: 8.872 min Scan# 1173
Delta R.T. 0.006 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion:130 Resp: 58860

Ion	Ratio	Lower	Upper
130	100		
95	94.8	0.0	194.8



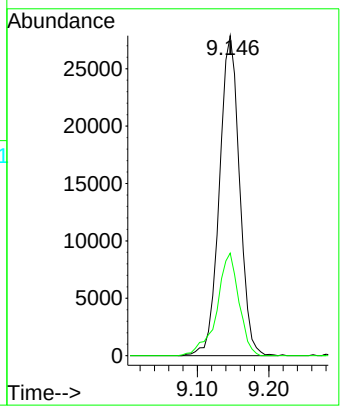


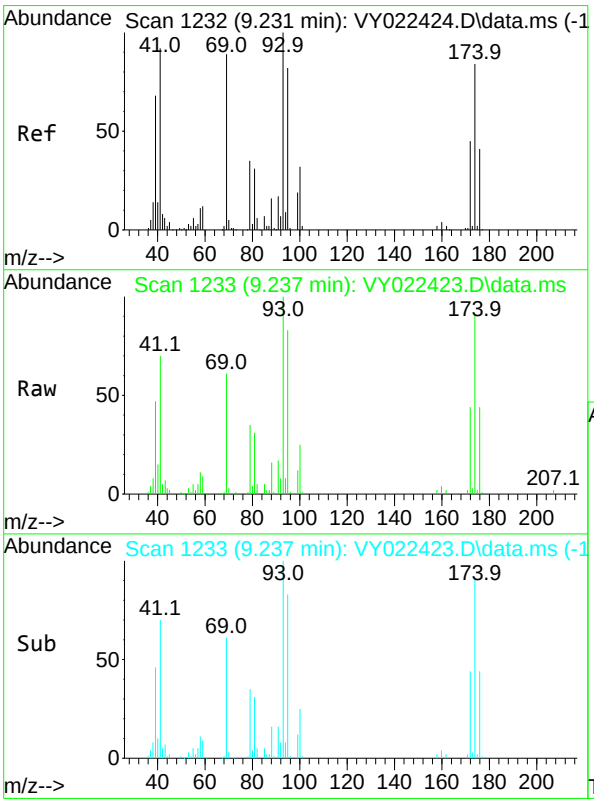
#45
1,2-Dichloropropane
Concen: 19.598 ug/l
RT: 9.146 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 63 Resp: 54451

Ion	Ratio	Lower	Upper
63	100		
65	32.1	25.1	37.7

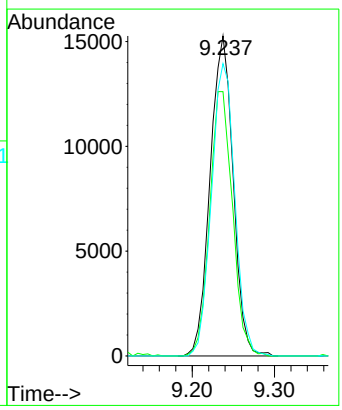


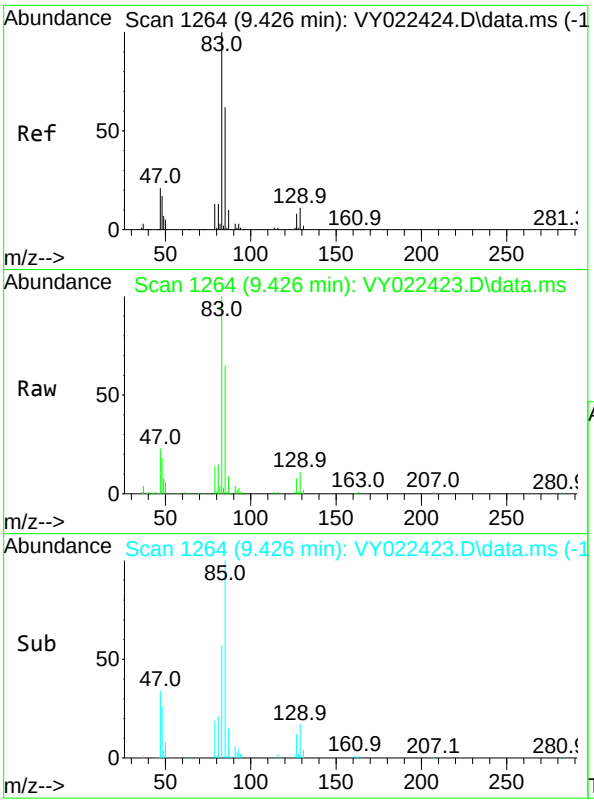


#46
Dibromomethane
Concen: 19.122 ug/l
RT: 9.237 min Scan# 1233
Delta R.T. 0.006 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 93 Resp: 29679

Ion	Ratio	Lower	Upper
93	100		
95	82.0	66.2	99.2
174	92.5	71.1	106.7



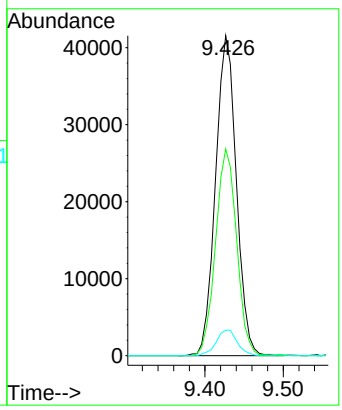


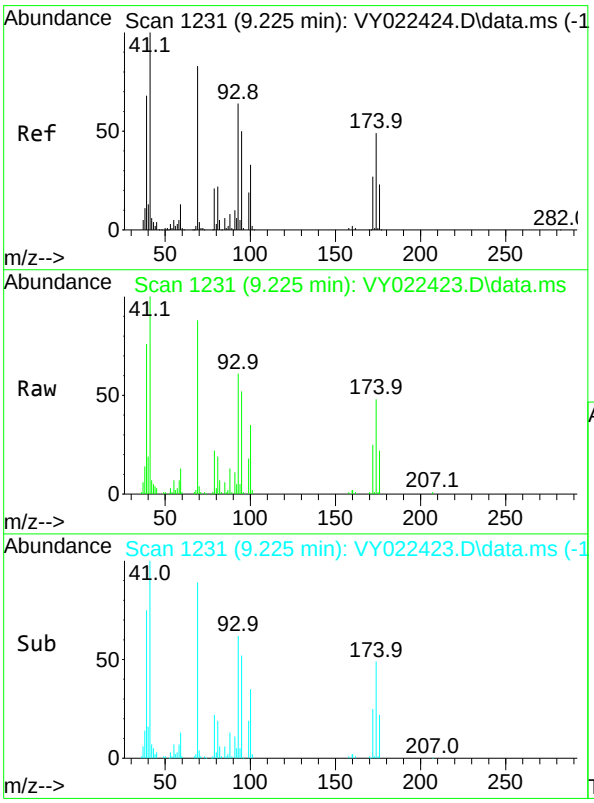
#47
Bromodichloromethane
Concen: 19.250 ug/l
RT: 9.426 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 83 Resp: 76833

Ion	Ratio	Lower	Upper
83	100		
85	64.6	49.8	74.6
127	8.0	6.6	9.8

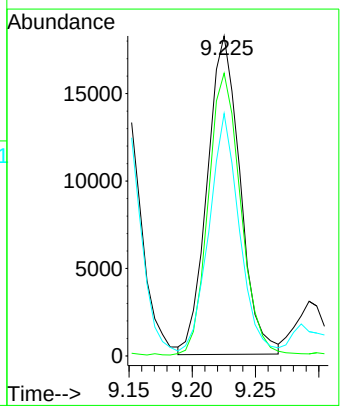


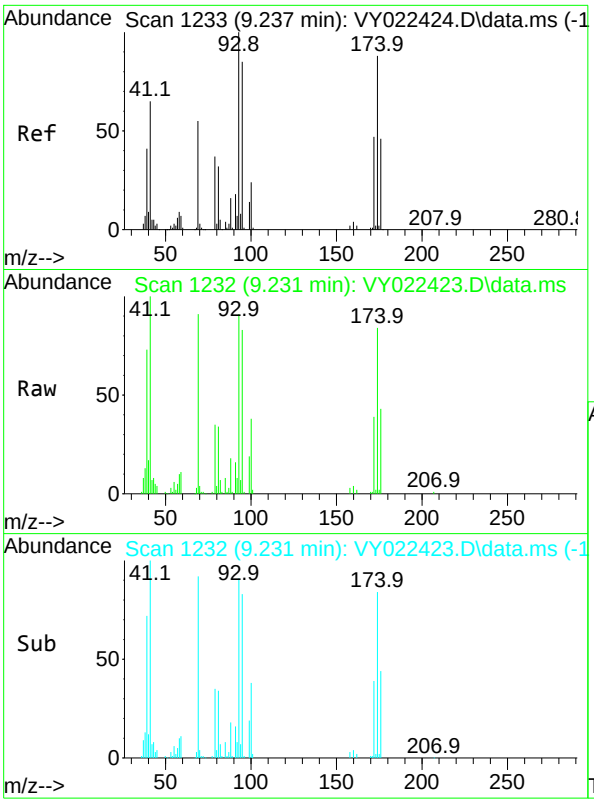


#48
Methyl methacrylate
Concen: 19.218 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 41 Resp: 32925

Ion	Ratio	Lower	Upper
41	100		
69	87.2	70.3	105.5
39	67.9	55.4	83.0



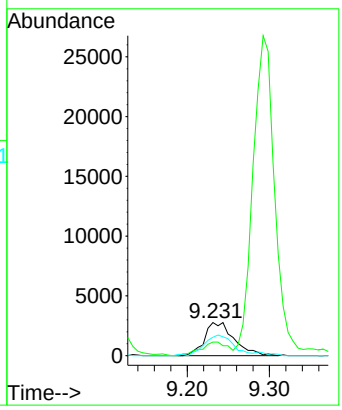


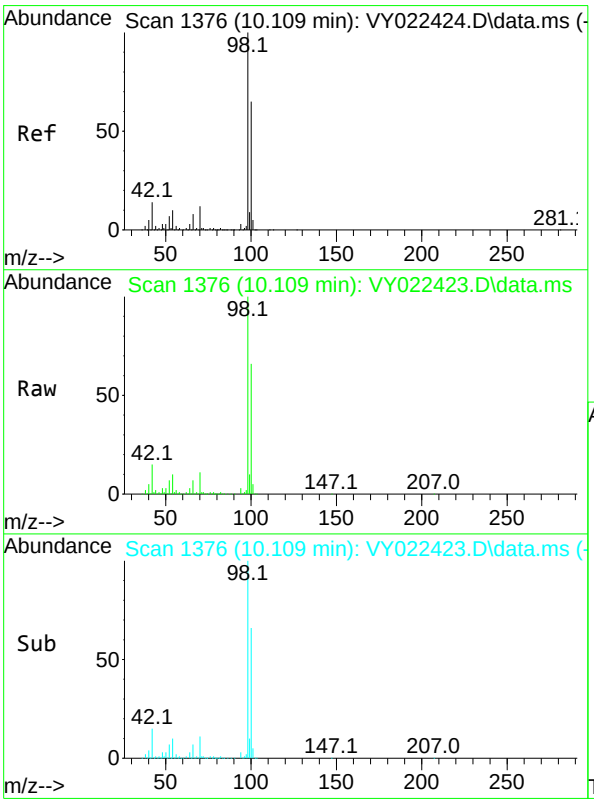
#49
1,4-Dioxane
Concen: 403.829 ug/l
RT: 9.231 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 88 Resp: 6923

Ion	Ratio	Lower	Upper
88	100		
43	37.7	26.9	40.3
58	61.5	55.8	83.6

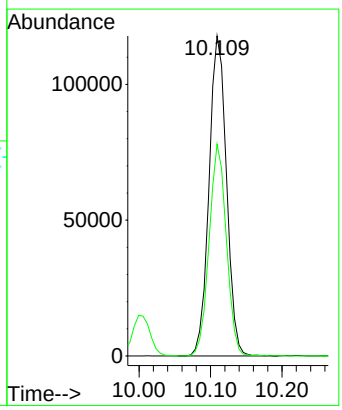


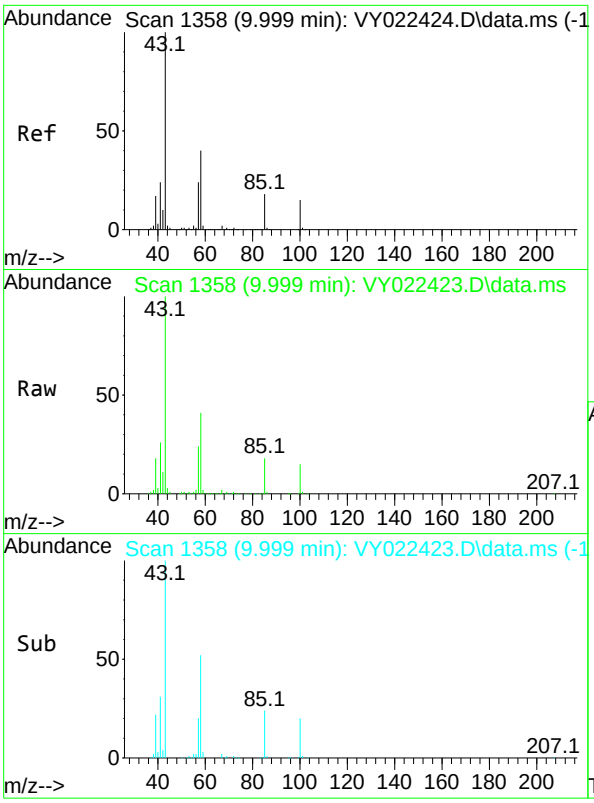


#50
Toluene-d8
Concen: 19.571 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 98 Resp: 199816

Ion	Ratio	Lower	Upper
98	100		
100	65.2	52.2	78.2



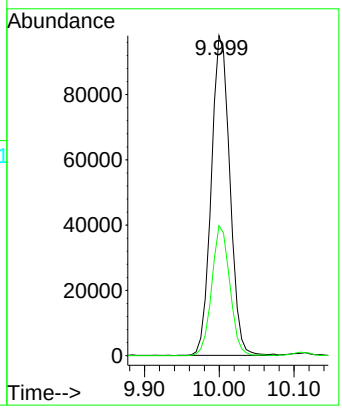


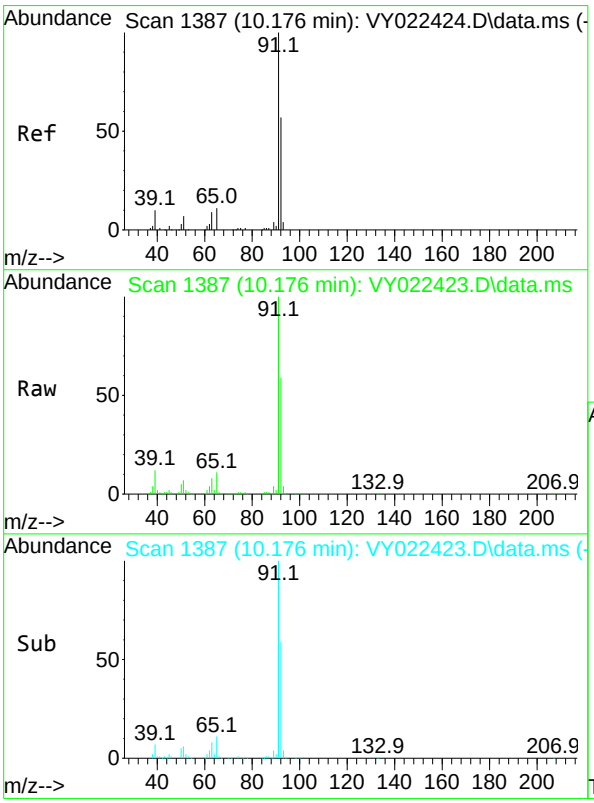
#51
4-Methyl-2-Pentanone
Concen: 92.837 ug/l
RT: 9.999 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 169056

Ion	Ratio	Lower	Upper
43	100		
58	39.6	31.2	46.8

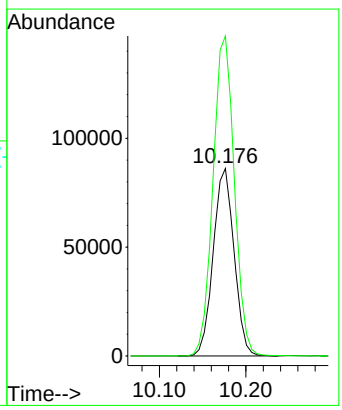


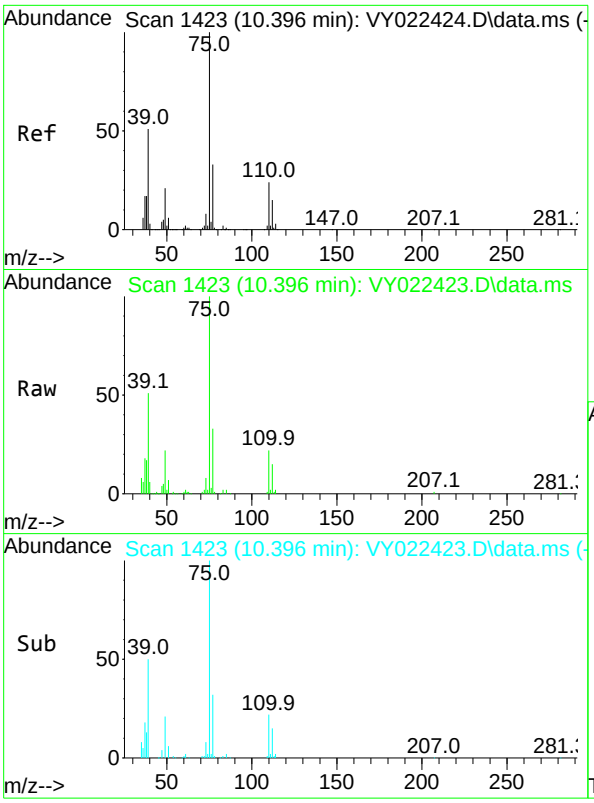


#52
Toluene
Concen: 19.489 ug/l
RT: 10.176 min Scan# 1387
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 92 Resp: 143949

Ion	Ratio	Lower	Upper
92	100		
91	174.8	139.8	209.6



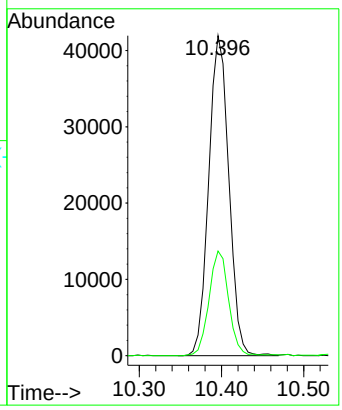


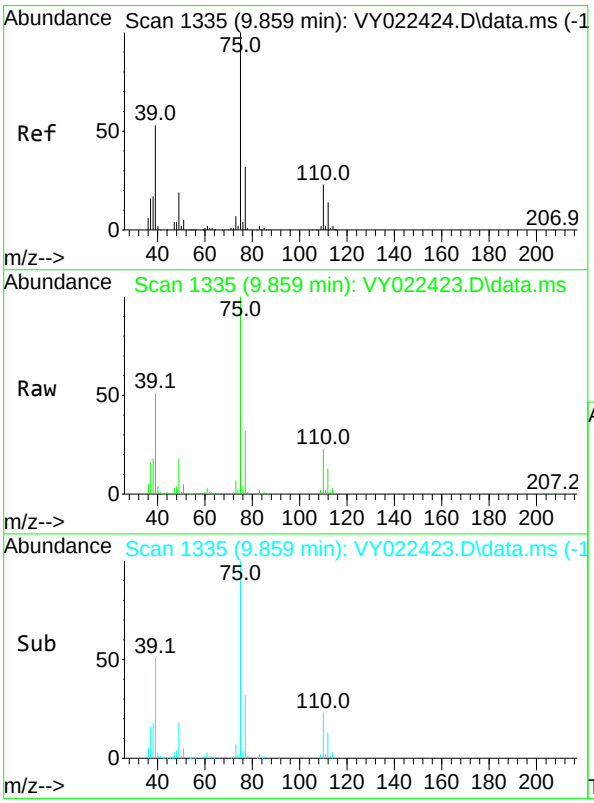
#53
t-1,3-Dichloropropene
Concen: 19.160 ug/l
RT: 10.396 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 75 Resp: 71231

Ion	Ratio	Lower	Upper
75	100		
77	32.7	26.2	39.2

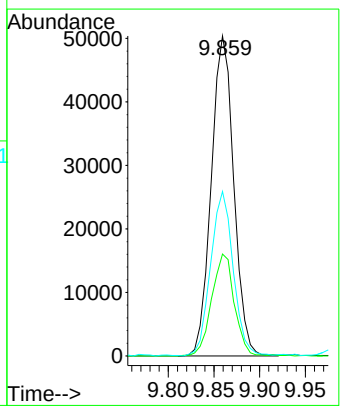


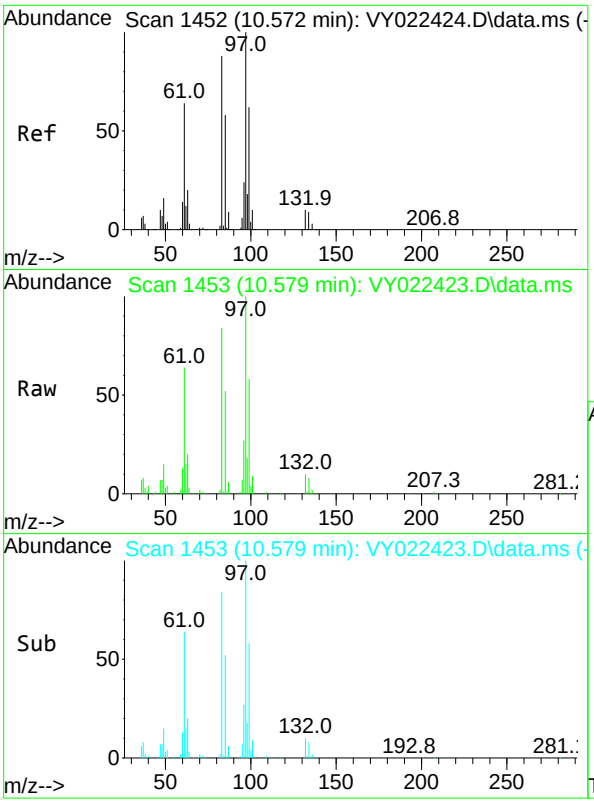


#54
cis-1,3-Dichloropropene
Concen: 19.747 ug/l
RT: 9.859 min Scan# 1335
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 75 Resp: 86263

Ion	Ratio	Lower	Upper
75	100		
77	31.8	25.4	38.2
39	51.2	42.5	63.7



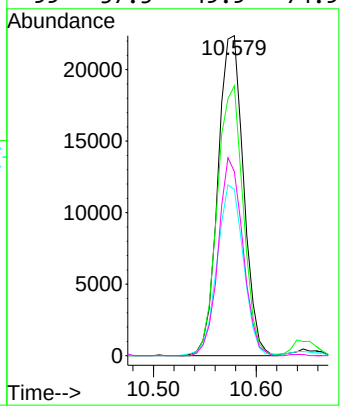


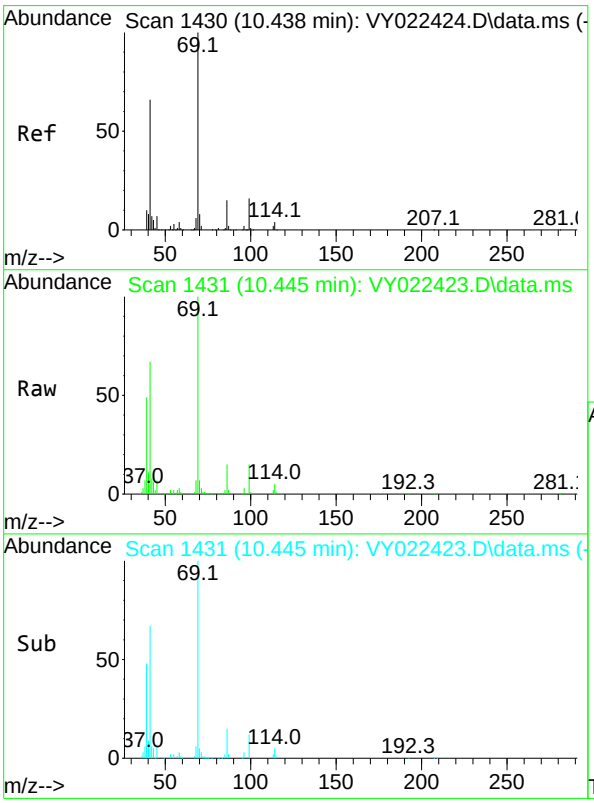
#55
1,1,2-Trichloroethane
Concen: 19.713 ug/l
RT: 10.579 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 97 Resp: 38684

Ion	Ratio	Lower	Upper
97	100		
83	84.4	70.2	105.4
85	52.0	46.1	69.1
99	57.5	49.9	74.9

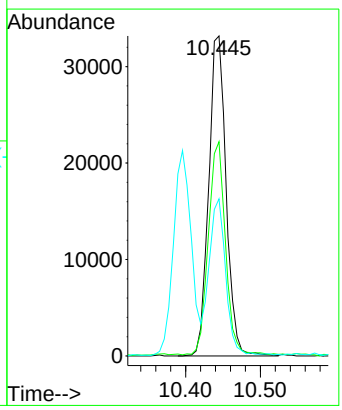


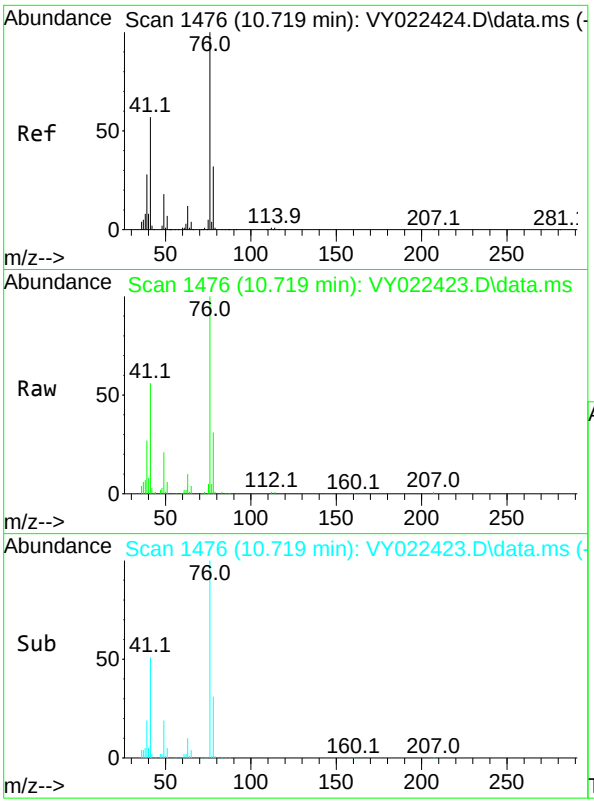


#56
Ethyl methacrylate
Concen: 19.140 ug/l
RT: 10.445 min Scan# 1431
Delta R.T. 0.006 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 69 Resp: 53900

Ion	Ratio	Lower	Upper
69	100		
41	65.2	51.2	76.8
39	45.7	35.2	52.8



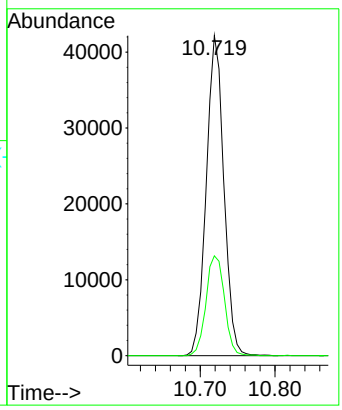


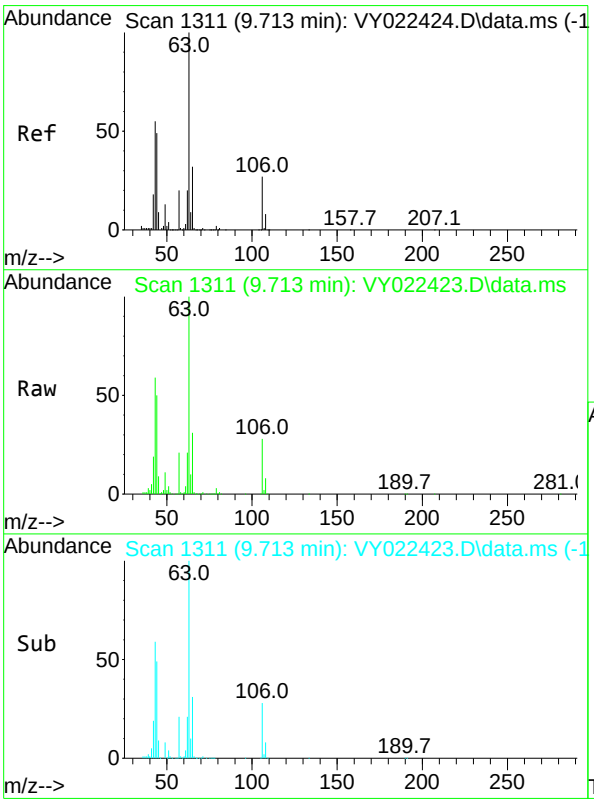
#57
1,3-Dichloropropane
Concen: 19.893 ug/l
RT: 10.719 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 76 Resp: 68793

Ion	Ratio	Lower	Upper
76	100		
78	32.8	25.8	38.8

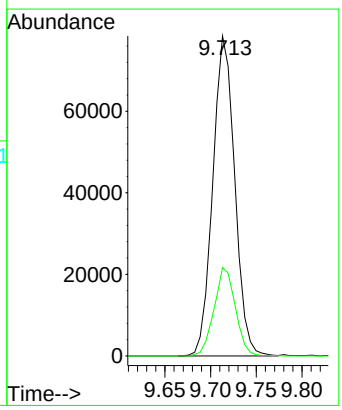


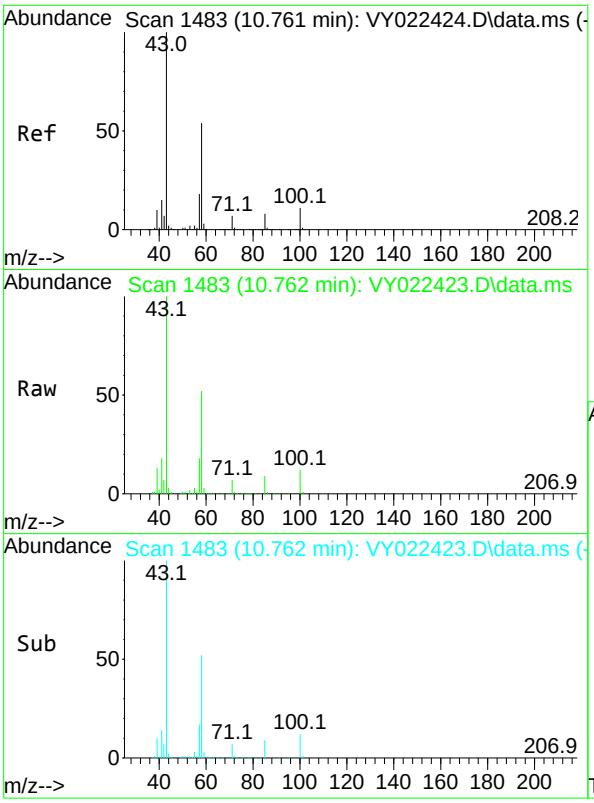


#58
2-Chloroethyl Vinyl ether
Concen: 93.311 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 63 Resp: 130961

Ion	Ratio	Lower	Upper
63	100		
106	26.9	22.2	33.2



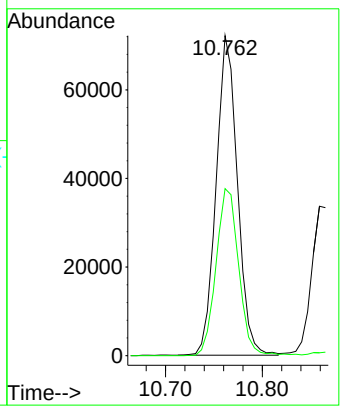


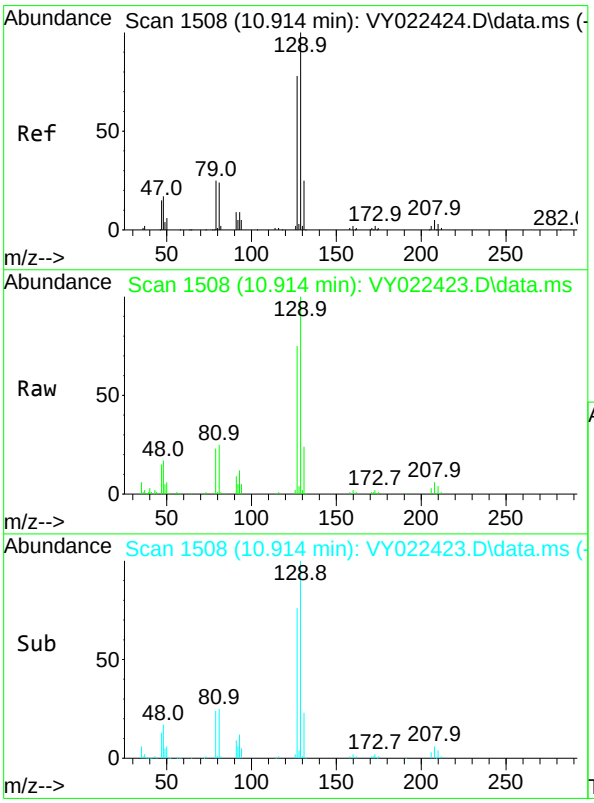
#59
2-Hexanone
Concen: 92.136 ug/l
RT: 10.762 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 109954

Ion	Ratio	Lower	Upper
43	100		
58	55.9	27.1	81.2

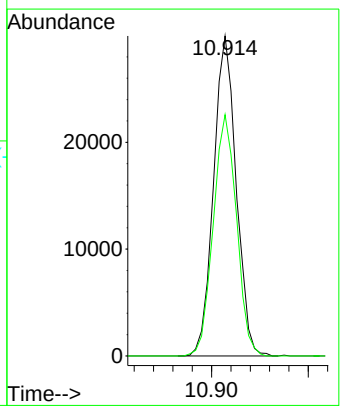


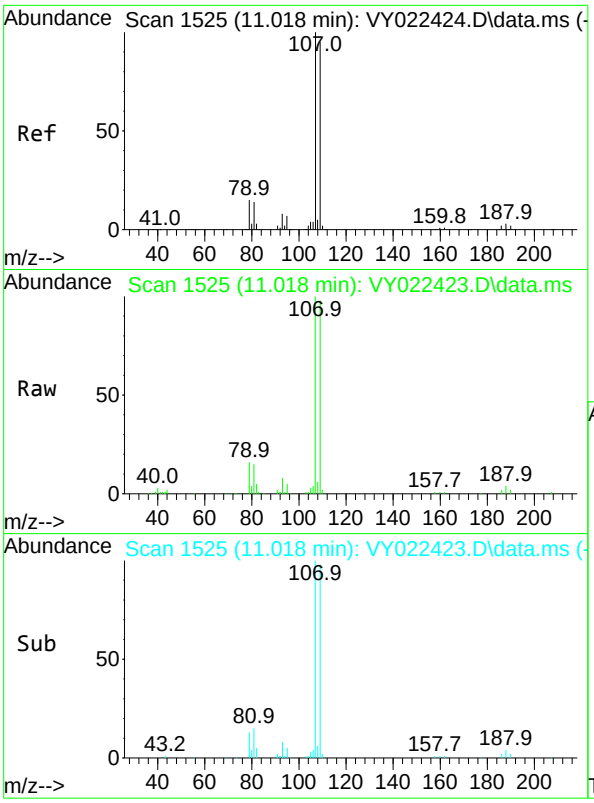


#60
Dibromochloromethane
Concen: 19.384 ug/l
RT: 10.914 min Scan# 1508
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion:129 Resp: 48590

Ion	Ratio	Lower	Upper
129	100		
127	77.5	38.3	114.8



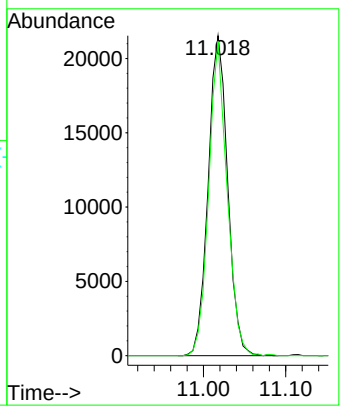


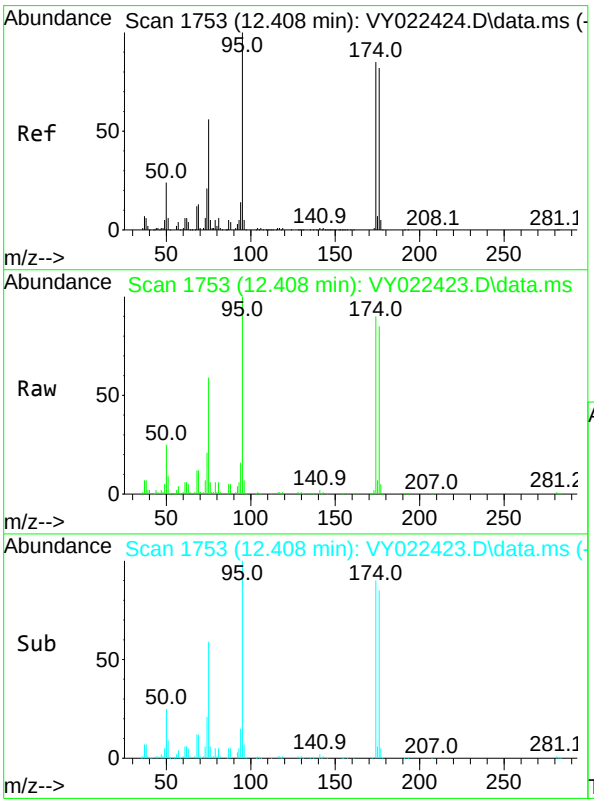
#61
1,2-Dibromoethane
Concen: 19.746 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion:107 Resp: 35441

Ion	Ratio	Lower	Upper
107	100		
109	92.4	74.0	111.0

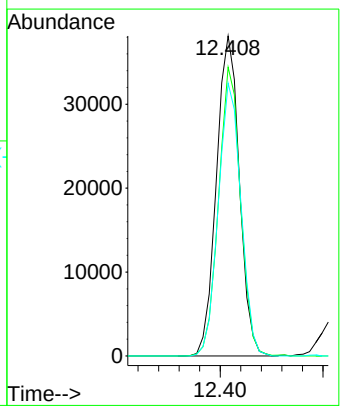


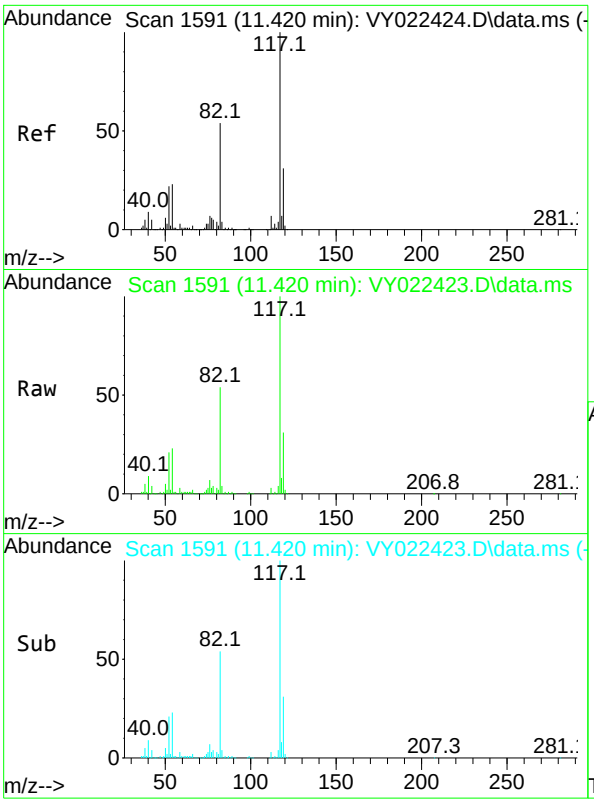


#62
4-Bromofluorobenzene
Concen: 19.112 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 95 Resp: 59022

Ion	Ratio	Lower	Upper
95	100		
174	86.3	0.0	171.6
176	84.2	0.0	164.6



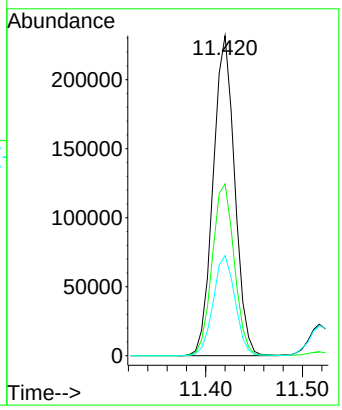


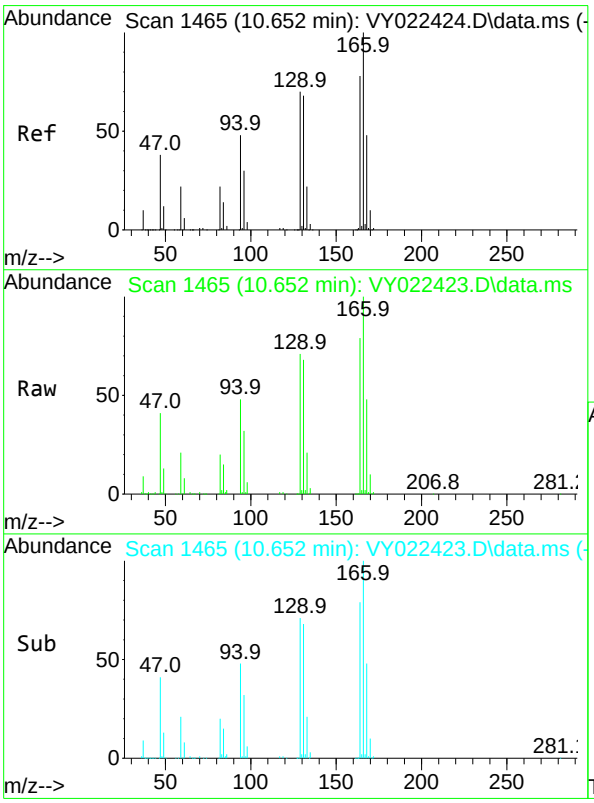
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion:117 Resp: 358898

Ion	Ratio	Lower	Upper
117	100		
82	53.7	43.3	64.9
119	31.3	24.5	36.7

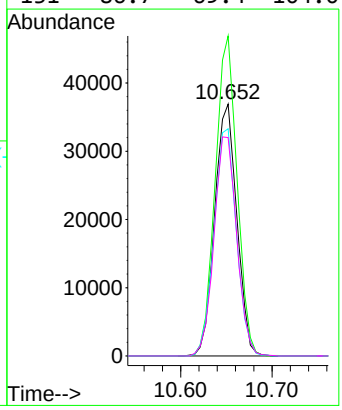


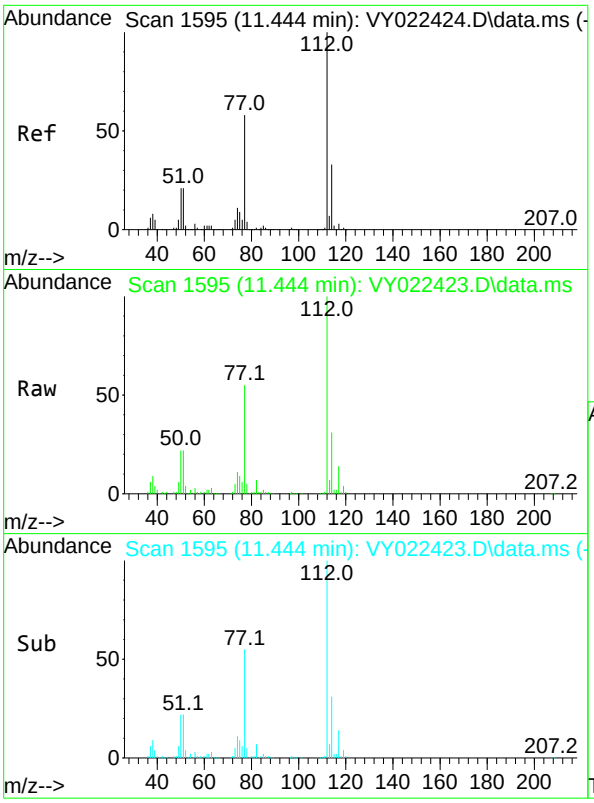


#64
Tetrachloroethene
Concen: 20.357 ug/l
RT: 10.652 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion:164 Resp: 62224

Ion	Ratio	Lower	Upper
164	100		
166	127.0	102.0	153.0
129	90.2	71.3	106.9
131	86.7	69.4	104.0



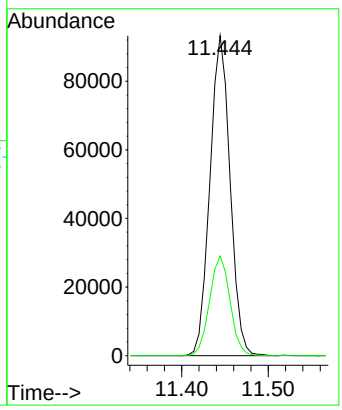


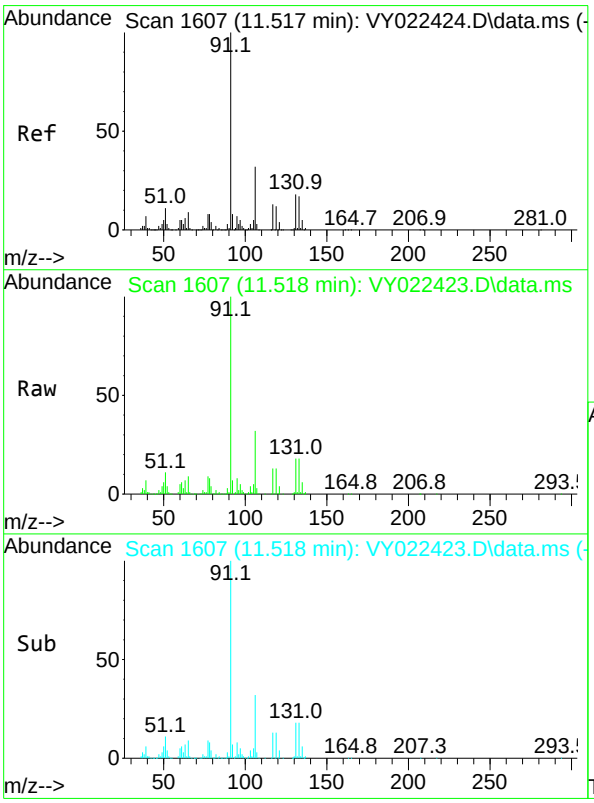
#65
Chlorobenzene
Concen: 19.709 ug/l
RT: 11.444 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion:112 Resp: 150827

Ion	Ratio	Lower	Upper
112	100		
114	31.1	26.1	39.1

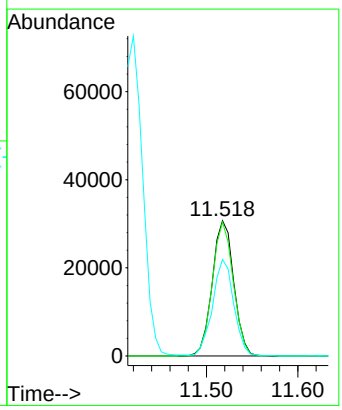


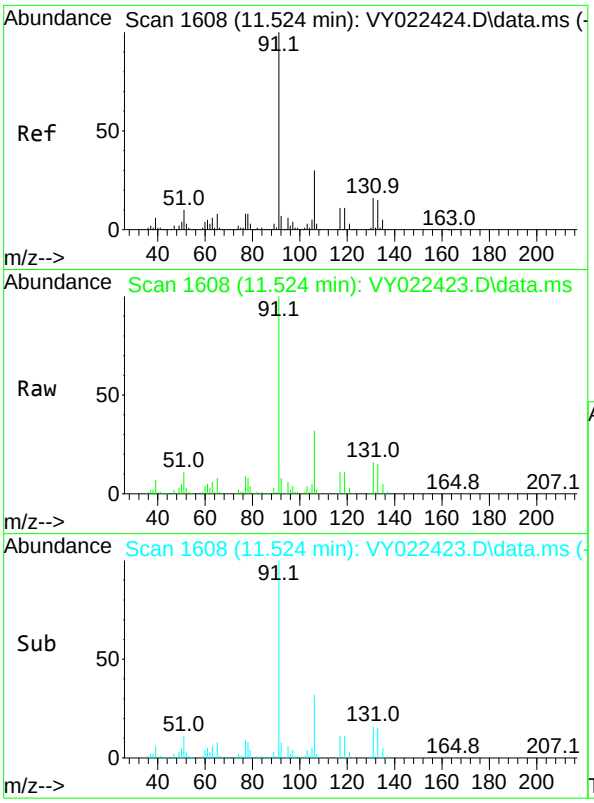


#66
1,1,1,2-Tetrachloroethane
Concen: 19.371 ug/l
RT: 11.518 min Scan# 1607
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion:131 Resp: 50226

Ion	Ratio	Lower	Upper
131	100		
133	96.4	46.6	139.8
119	70.4	33.3	99.8



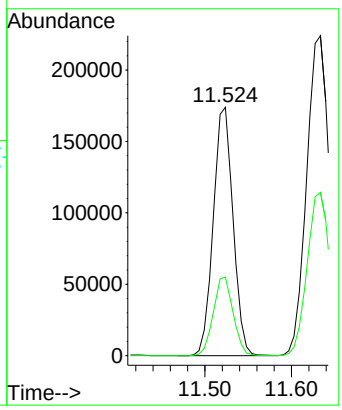


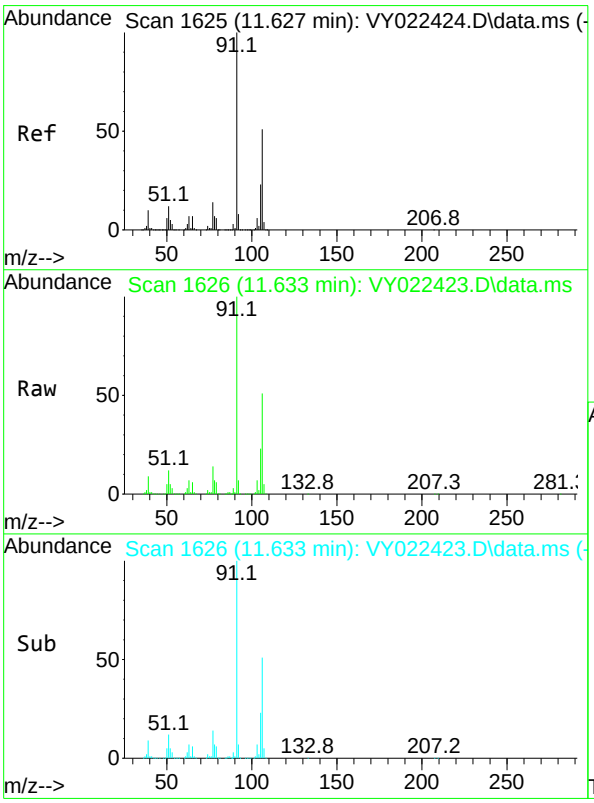
#67
Ethyl Benzene
Concen: 19.399 ug/l
RT: 11.524 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 91 Resp: 275656

Ion	Ratio	Lower	Upper
91	100		
106	31.6	24.4	36.6

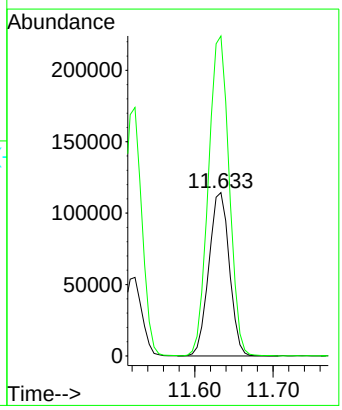


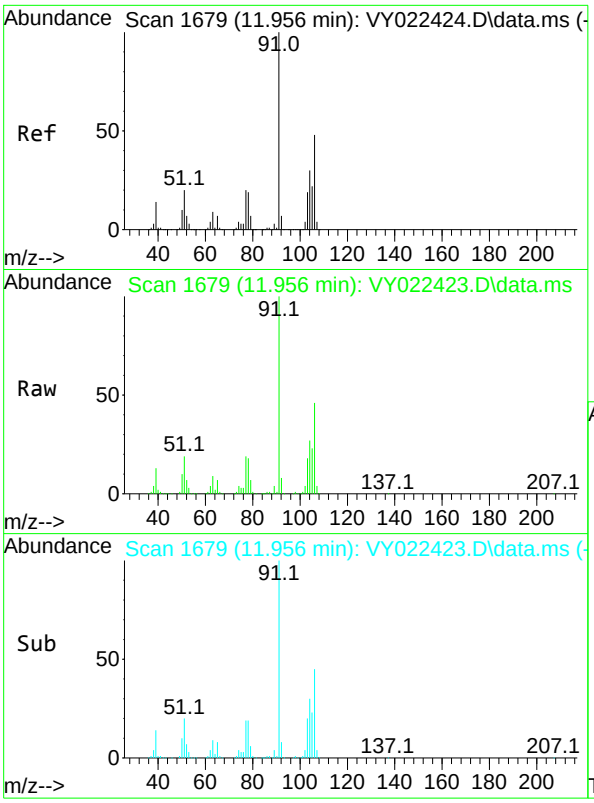


#68
m/p-Xylenes
Concen: 38.557 ug/l
RT: 11.633 min Scan# 1626
Delta R.T. 0.006 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion:106 Resp: 207724

Ion	Ratio	Lower	Upper
106	100		
91	198.7	159.8	239.8



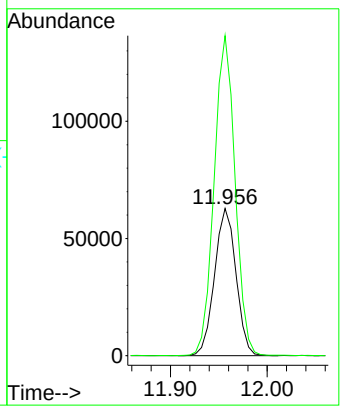


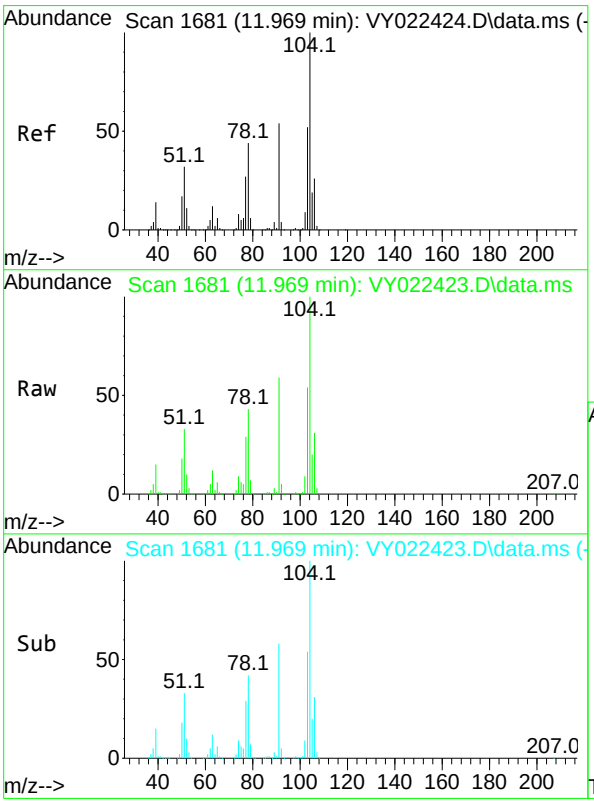
#69
o-Xylene
Concen: 19.075 ug/l
RT: 11.956 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion:106 Resp: 96581

Ion	Ratio	Lower	Upper
106	100		
91	212.9	106.3	318.9

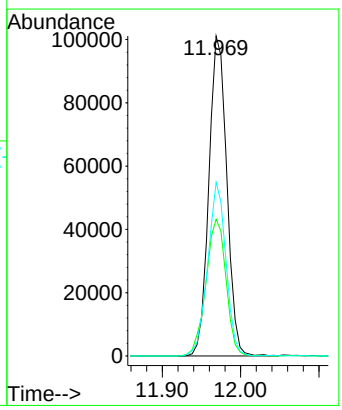


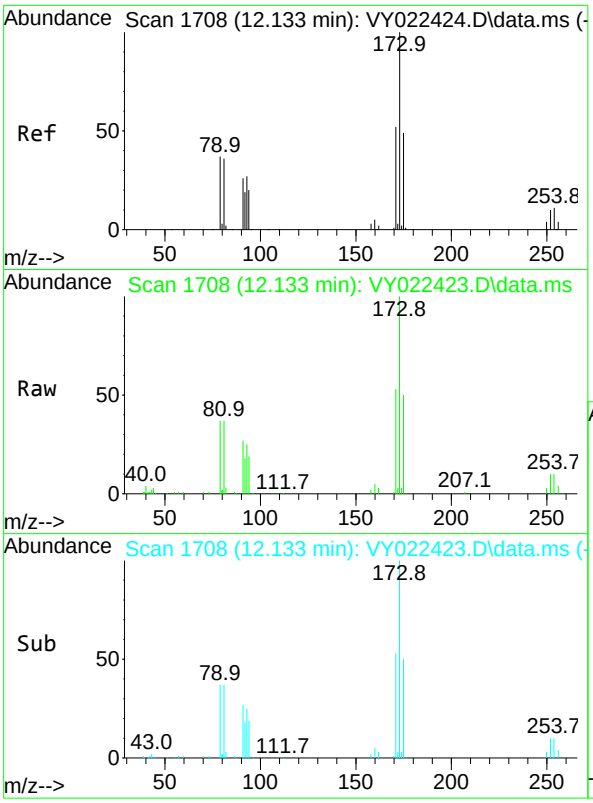


#70
Styrene
Concen: 19.023 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion:104 Resp: 160384

Ion	Ratio	Lower	Upper
104	100		
78	47.9	38.8	58.2
103	55.4	43.4	65.2



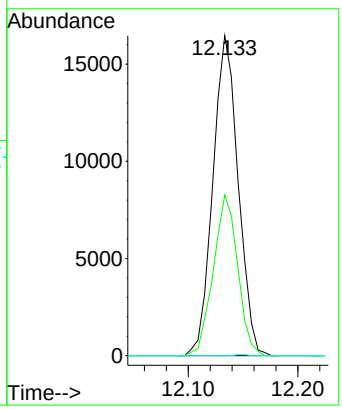


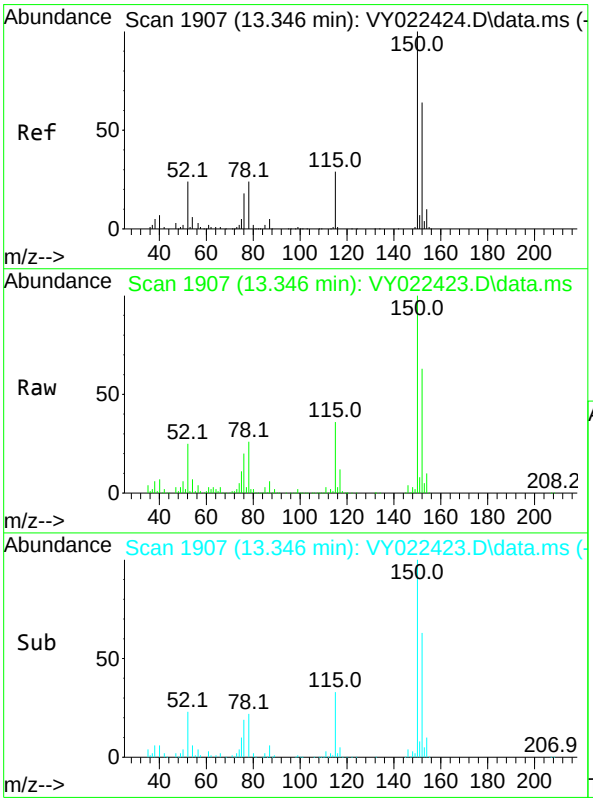
#71
Bromoform
Concen: 19.415 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion:173 Resp: 26368

Ion	Ratio	Lower	Upper
173	100		
175	48.4	24.3	73.0
254	0.2	0.1	0.1#

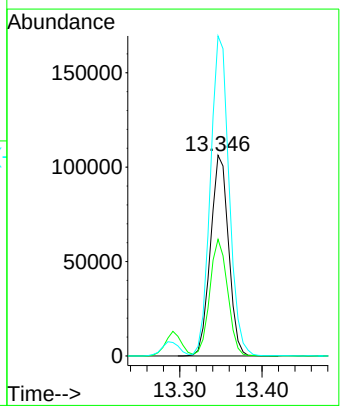


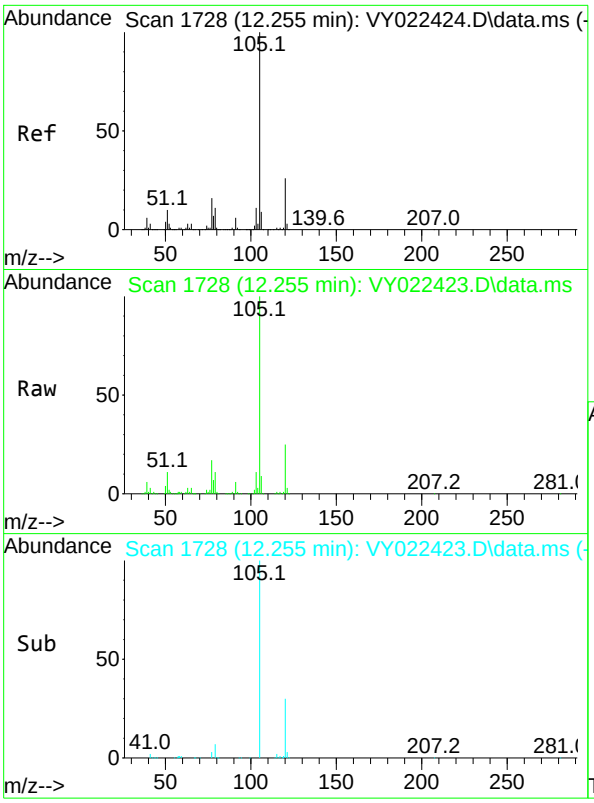


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion:152 Resp: 162048

Ion	Ratio	Lower	Upper
152	100		
115	57.5	28.4	85.3
150	164.9	0.0	345.8



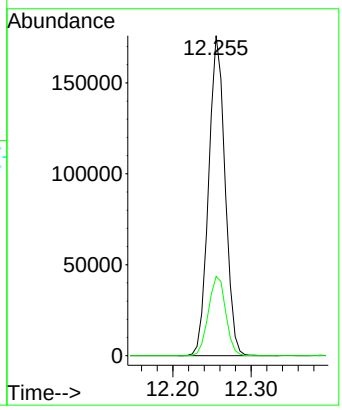


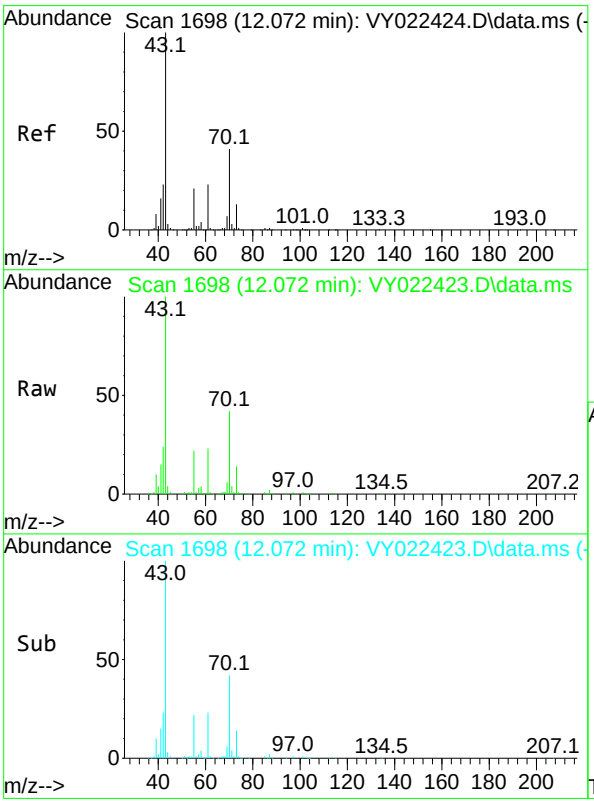
#73
Isopropylbenzene
Concen: 20.053 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion:105 Resp: 255754

Ion	Ratio	Lower	Upper
105	100		
120	26.0	13.2	39.5

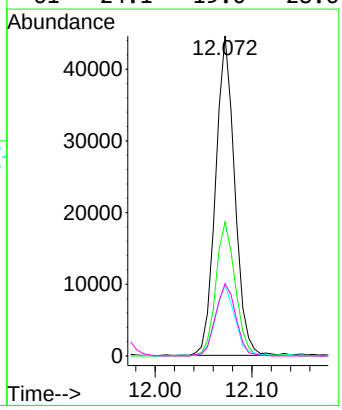


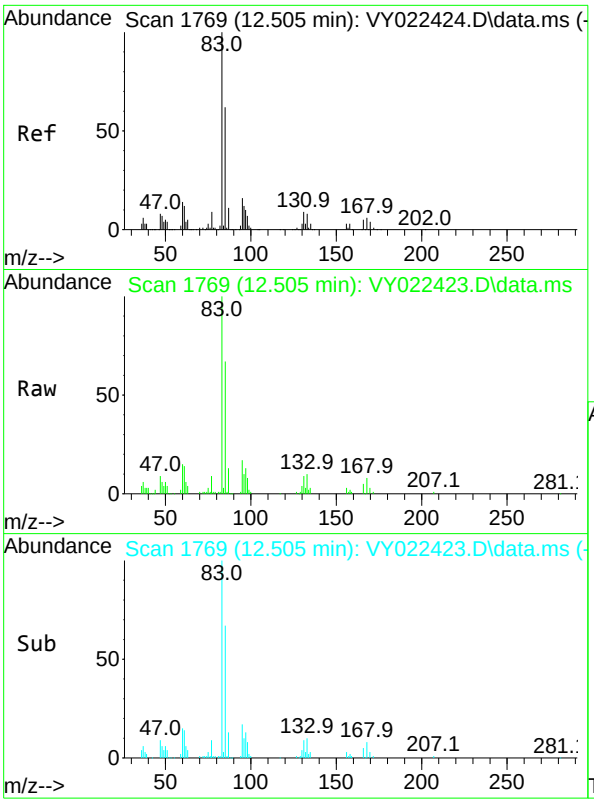


#74
N-amyl acetate
Concen: 19.558 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 43 Resp: 61037

Ion	Ratio	Lower	Upper
43	100		
70	42.7	33.0	49.4
55	23.2	17.5	26.3
61	24.1	19.0	28.6



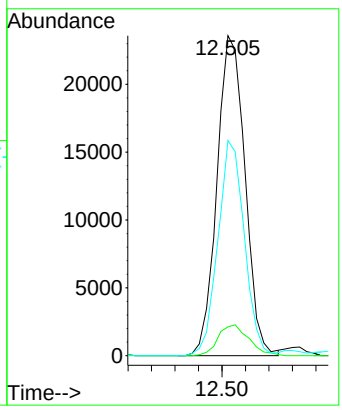


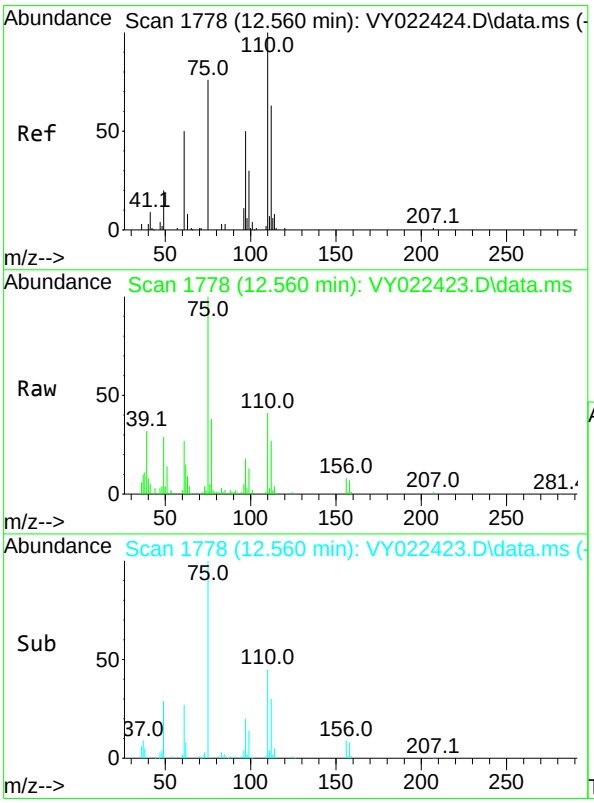
#75
1,1,2,2-Tetrachloroethane
Concen: 19.472 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 83 Resp: 39127

Ion	Ratio	Lower	Upper
83	100		
131	10.6	4.8	14.4
85	63.5	32.0	96.2

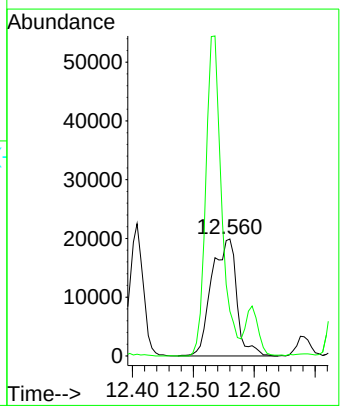


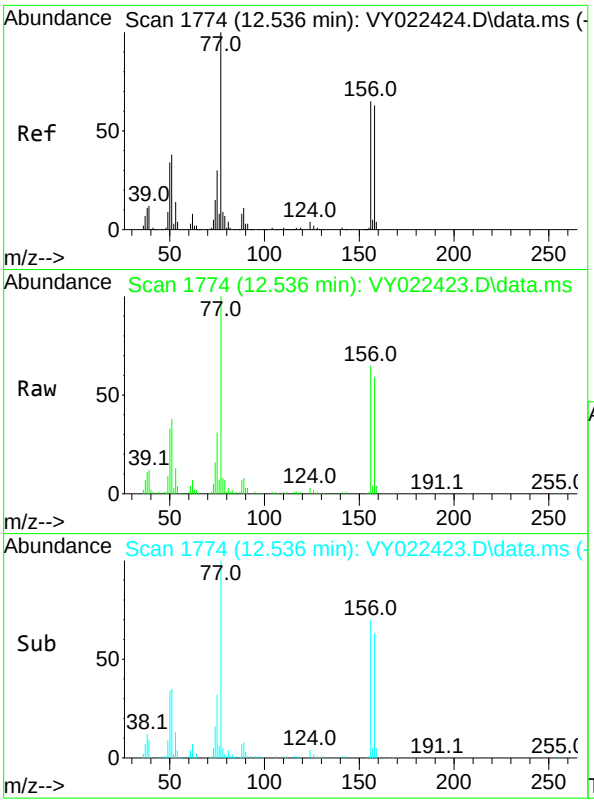


#76
1,2,3-Trichloropropane
Concen: 35.129 ug/l
RT: 12.560 min Scan# 1778
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 75 Resp: 57021

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0



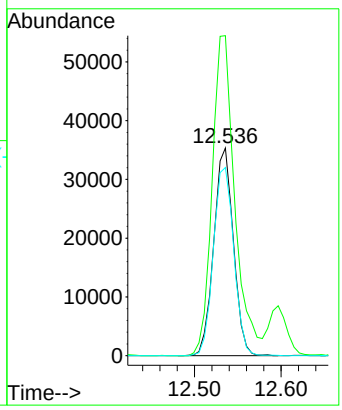


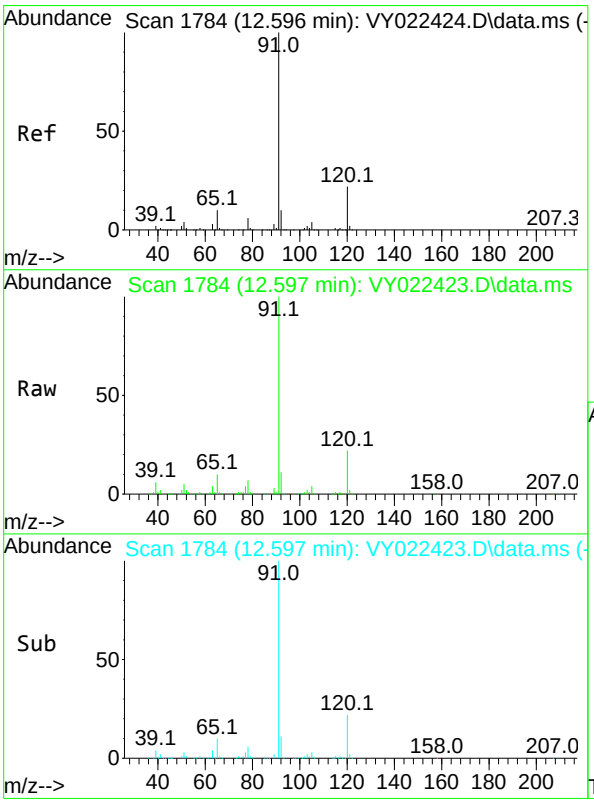
#77
Bromobenzene
Concen: 20.273 ug/l
RT: 12.536 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion:156 Resp: 55641

Ion	Ratio	Lower	Upper
156	100		
77	178.1	91.4	274.2
158	94.6	48.1	144.3

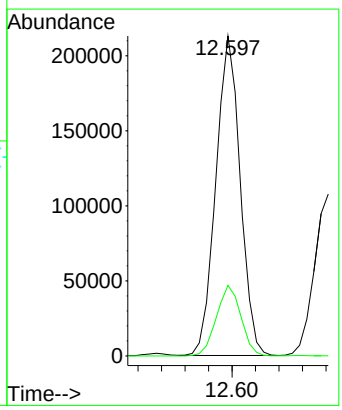


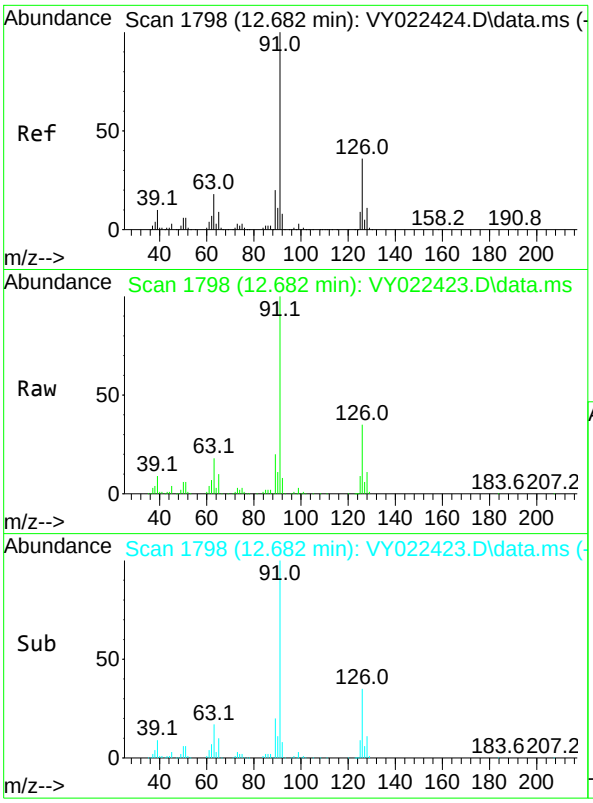


#78
n-propylbenzene
Concen: 20.024 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 91 Resp: 306474

Ion	Ratio	Lower	Upper
91	100		
120	22.2	11.2	33.5



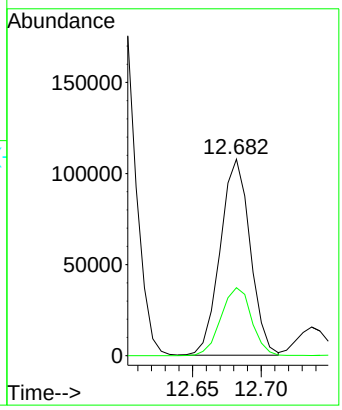


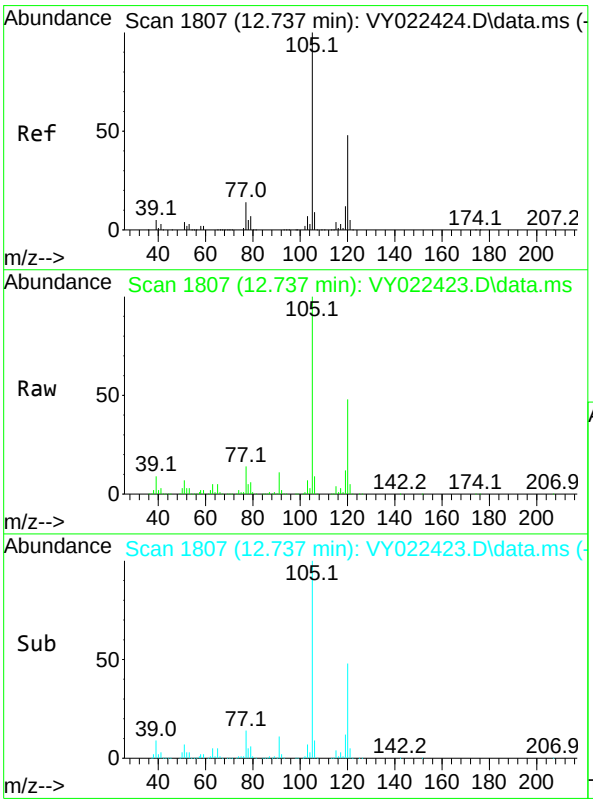
#79
2-Chlorotoluene
Concen: 19.752 ug/l
RT: 12.682 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 91 Resp: 163649

Ion	Ratio	Lower	Upper
91	100		
126	35.6	17.4	52.3

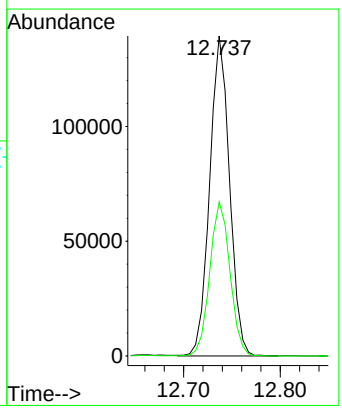


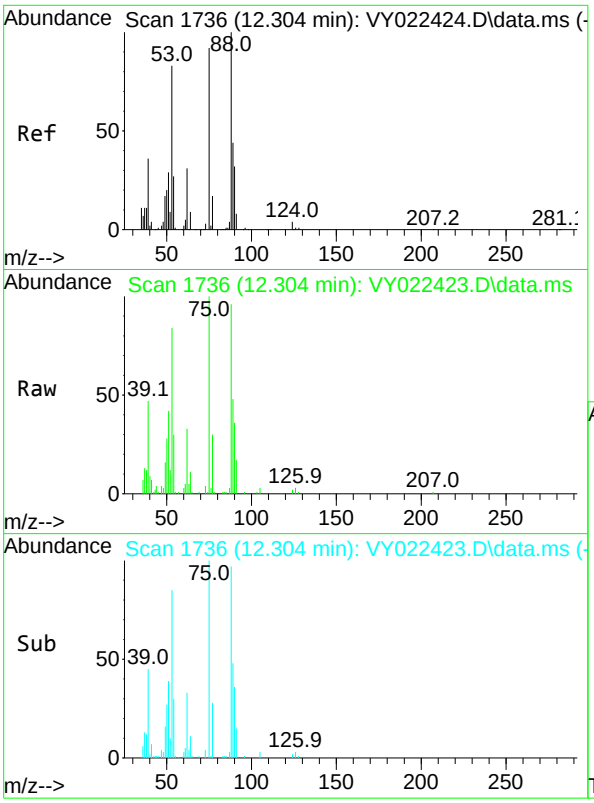


#80
1,3,5-Trimethylbenzene
Concen: 19.944 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion:105 Resp: 198748

Ion	Ratio	Lower	Upper
105	100		
120	49.0	24.3	73.0



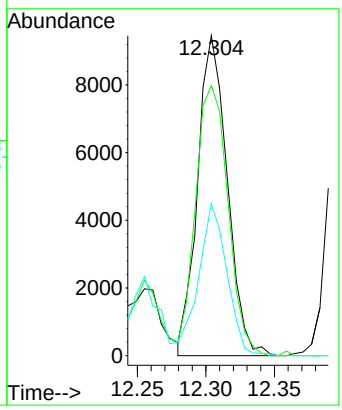


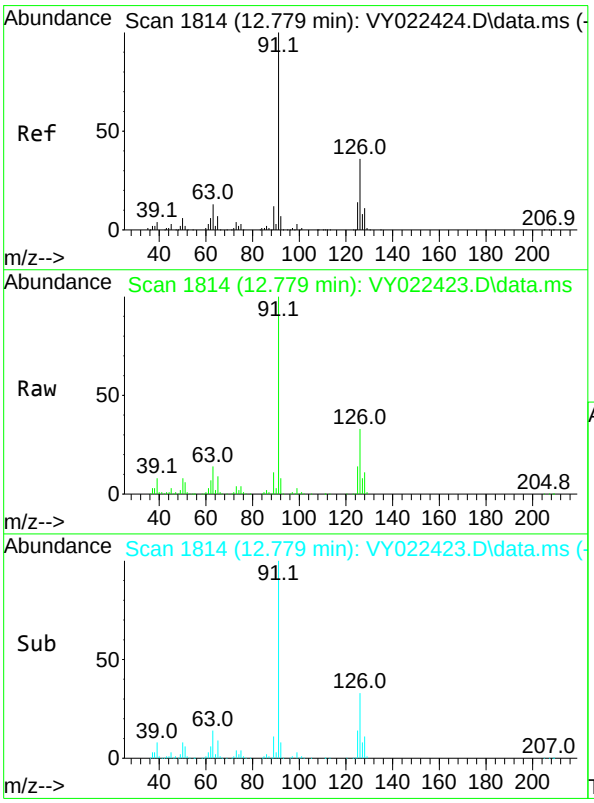
#81
trans-1,4-Dichloro-2-butene
Concen: 19.863 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 75 Resp: 14257

Ion	Ratio	Lower	Upper
75	100		
53	91.9	75.1	112.7
89	46.2	37.4	56.0

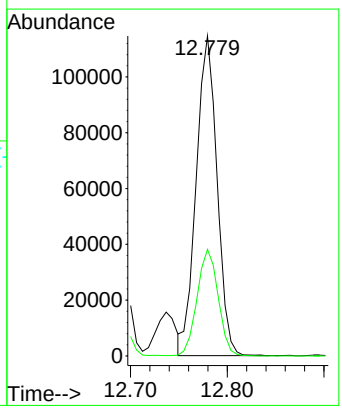


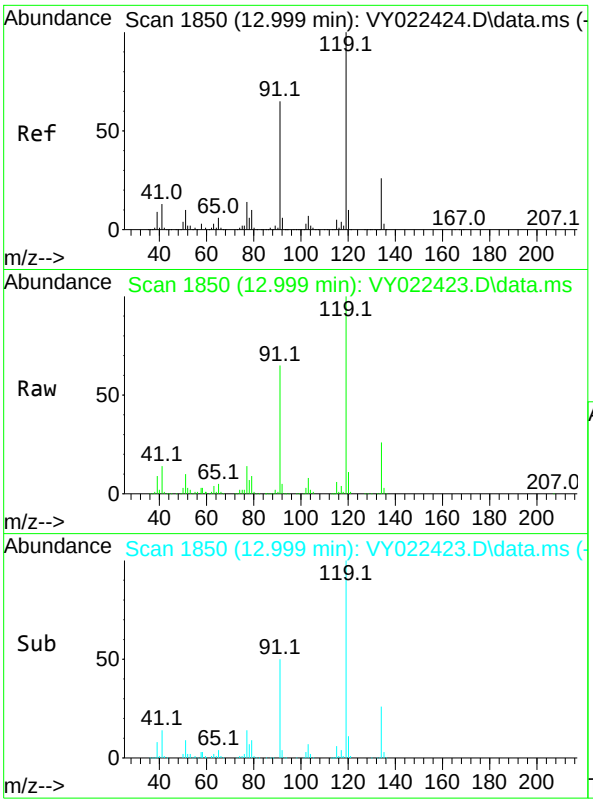


#82
4-Chlorotoluene
Concen: 20.140 ug/l
RT: 12.779 min Scan# 1814
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 91 Resp: 171858

Ion	Ratio	Lower	Upper
91	100		
126	33.7	17.2	51.6



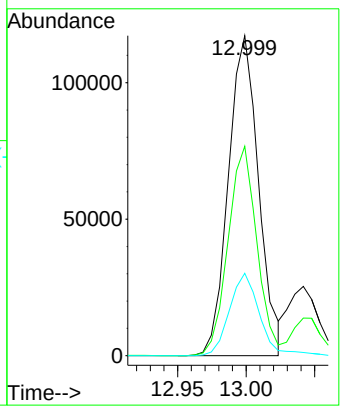


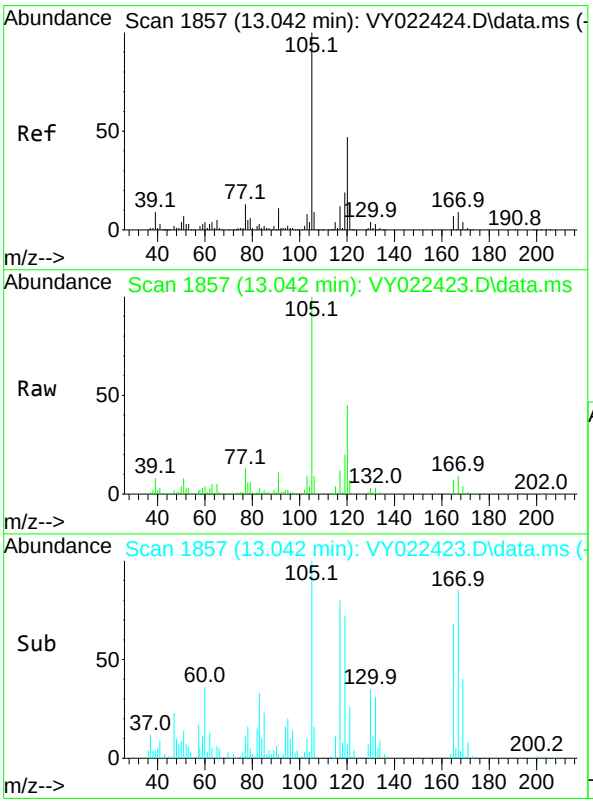
#83
tert-Butylbenzene
Concen: 19.975 ug/l
RT: 12.999 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion:119 Resp: 179841

Ion	Ratio	Lower	Upper
119	100		
91	62.3	31.8	95.3
134	25.7	13.0	38.9

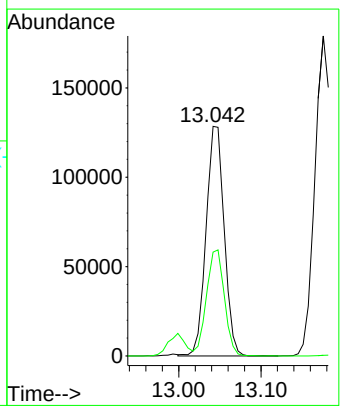


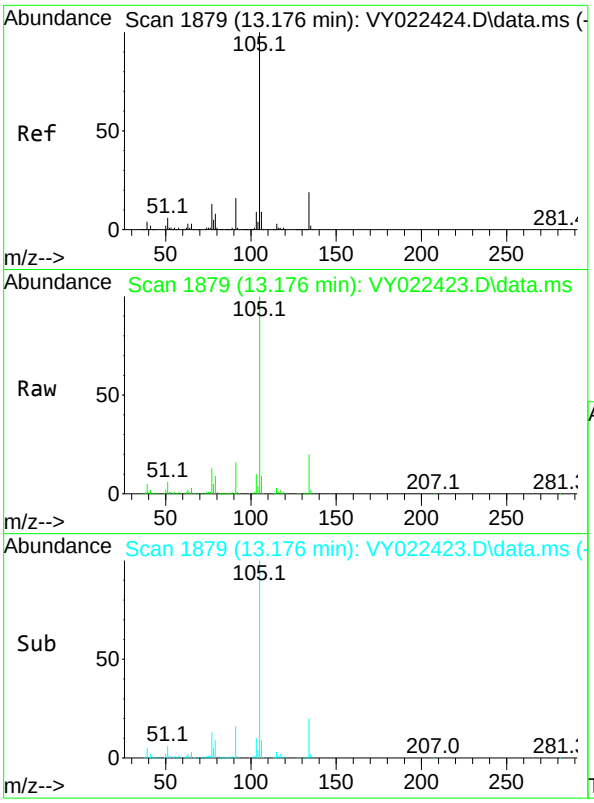


#84
1,2,4-Trimethylbenzene
Concen: 19.640 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion:105 Resp: 196951

Ion	Ratio	Lower	Upper
105	100		
120	45.6	22.9	68.5



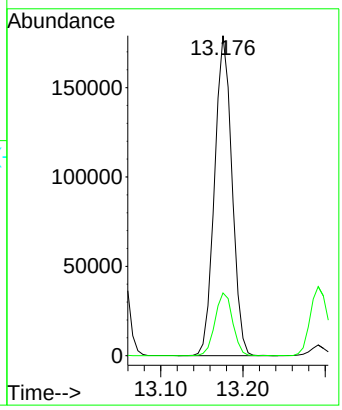


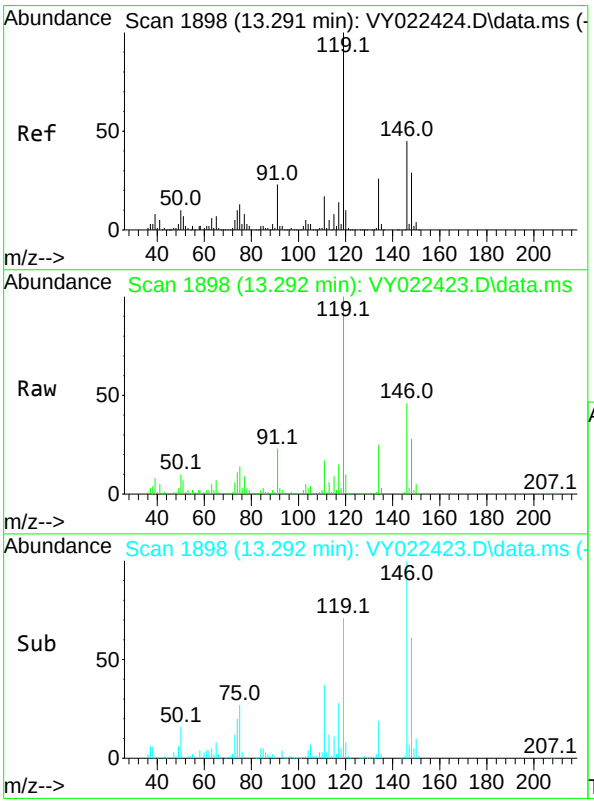
#85
sec-Butylbenzene
Concen: 19.753 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion:105 Resp: 263748

Ion	Ratio	Lower	Upper
105	100		
134	19.9	9.7	29.1

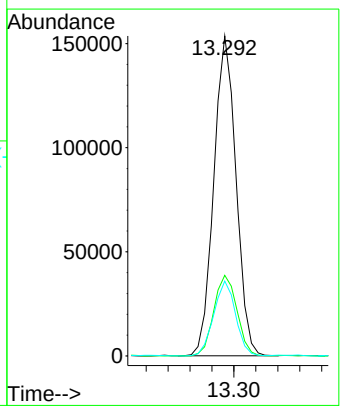


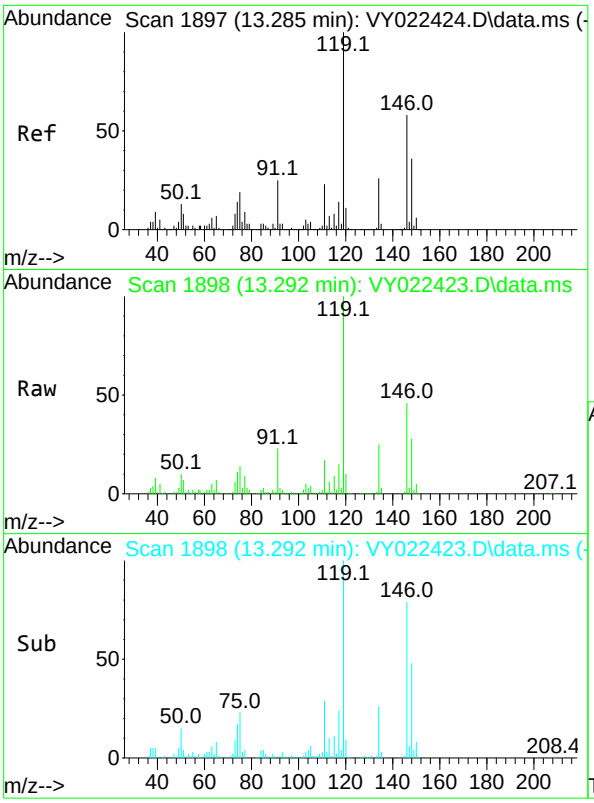


#86
p-Isopropyltoluene
Concen: 19.393 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion:119 Resp: 216227

Ion	Ratio	Lower	Upper
119	100		
134	26.3	13.0	39.0
91	23.1	11.6	34.8



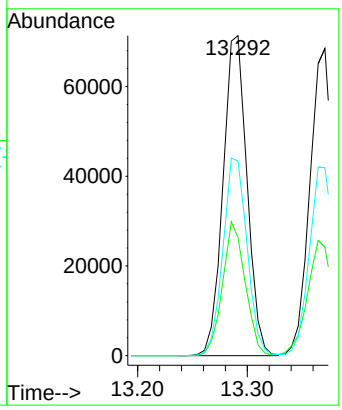


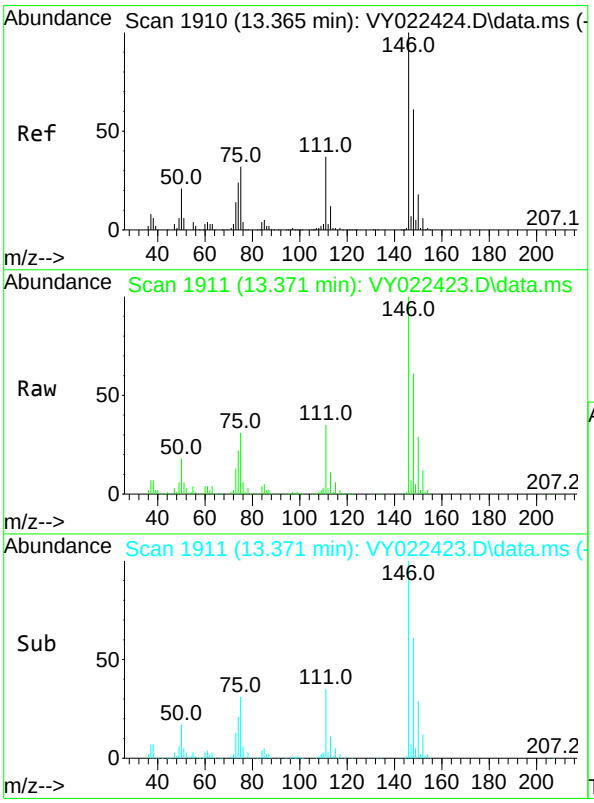
#87
1,3-Dichlorobenzene
Concen: 19.644 ug/l
RT: 13.292 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion:146 Resp: 108479

Ion	Ratio	Lower	Upper
146	100		
111	39.6	19.6	58.8
148	62.3	31.7	95.1

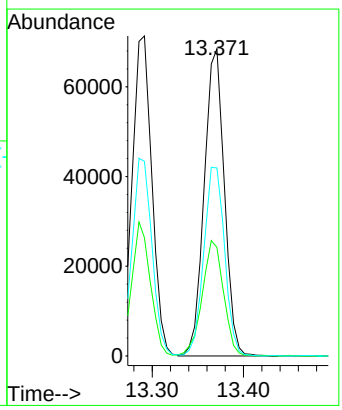


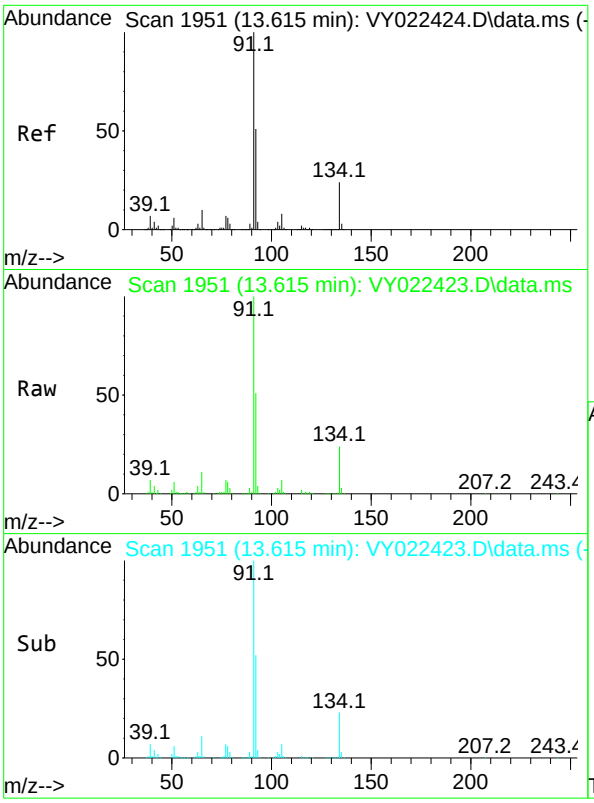


#88
1,4-Dichlorobenzene
Concen: 19.845 ug/l
RT: 13.371 min Scan# 1911
Delta R.T. 0.006 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion:146 Resp: 104788

Ion	Ratio	Lower	Upper
146	100		
111	39.8	18.7	56.1
148	63.6	31.4	94.3



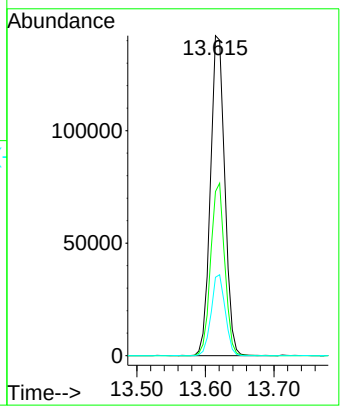


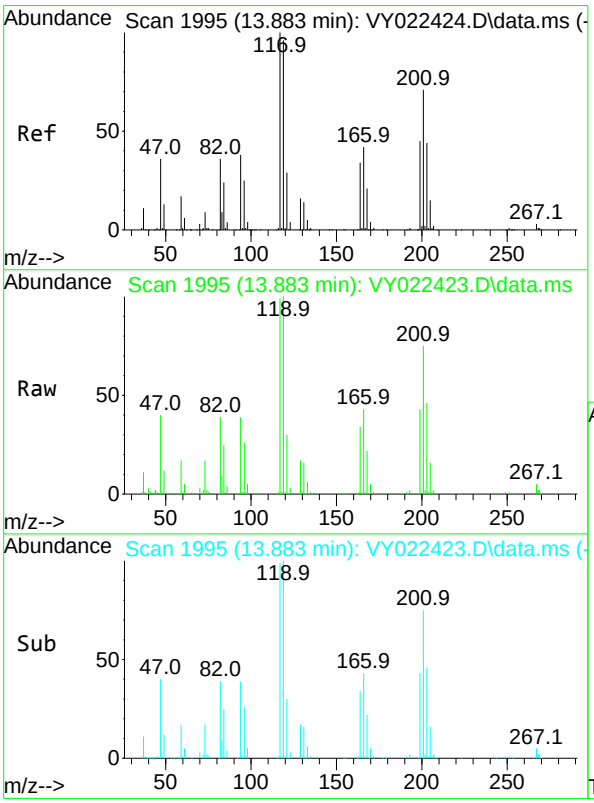
#89
n-Butylbenzene
Concen: 19.768 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion: 91 Resp: 206658

Ion	Ratio	Lower	Upper
91	100		
92	52.9	25.9	77.6
134	24.8	12.4	37.0

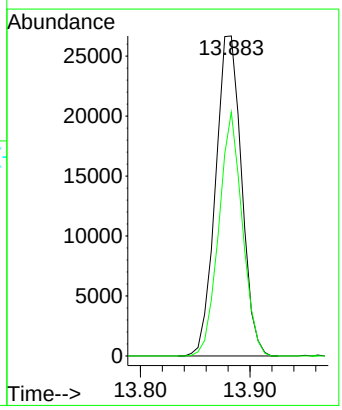


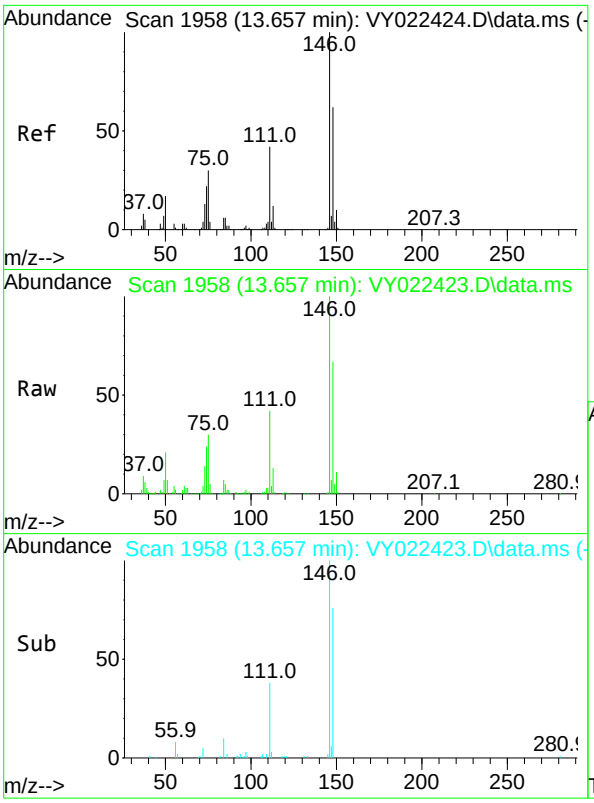


#90
Hexachloroethane
Concen: 19.857 ug/l
RT: 13.883 min Scan# 1995
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion:117 Resp: 44059

Ion	Ratio	Lower	Upper
117	100		
201	68.7	35.0	105.0



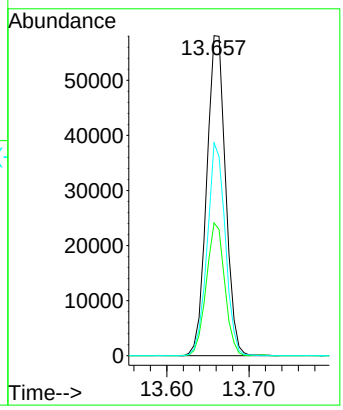


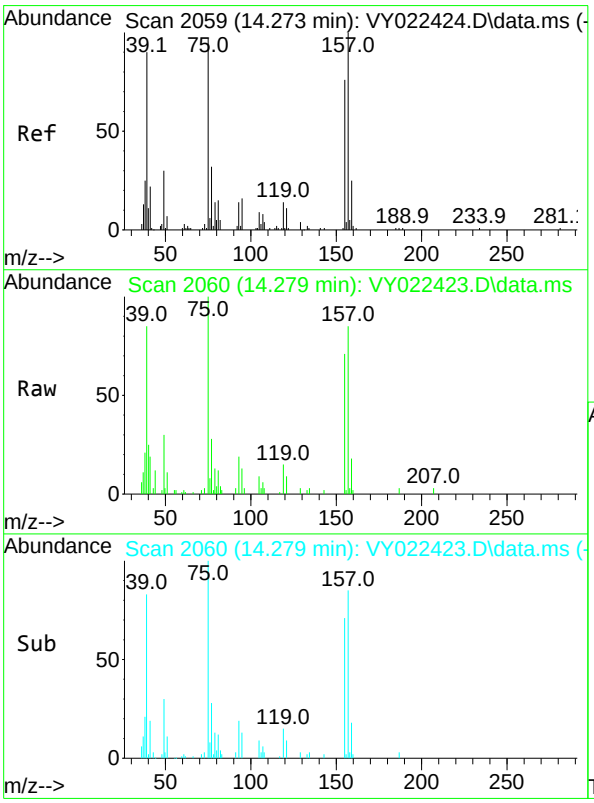
#91
1,2-Dichlorobenzene
Concen: 20.103 ug/l
RT: 13.657 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion:146 Resp: 92726

Ion	Ratio	Lower	Upper
146	100		
111	40.5	20.5	61.6
148	63.5	31.9	95.9

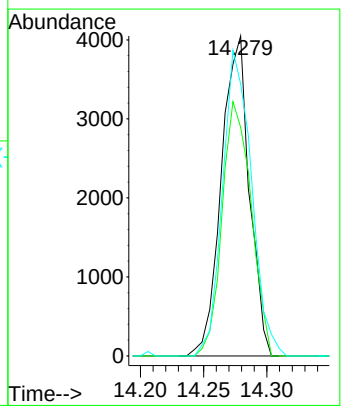


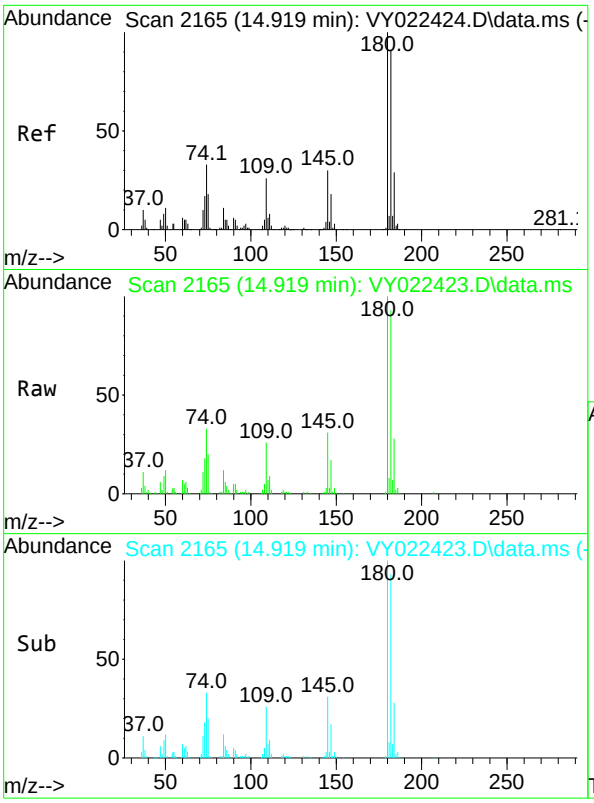


#92
1,2-Dibromo-3-Chloropropane
Concen: 20.016 ug/l
RT: 14.279 min Scan# 2060
Delta R.T. 0.006 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion: 75 Resp: 6215

Ion	Ratio	Lower	Upper
75	100		
155	82.5	42.3	126.8
157	98.9	54.4	163.3



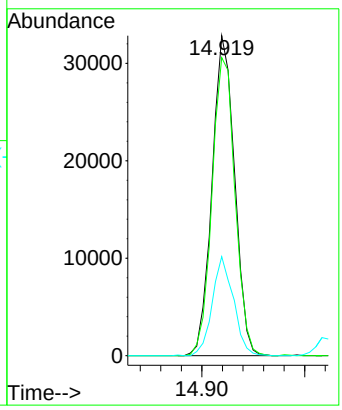


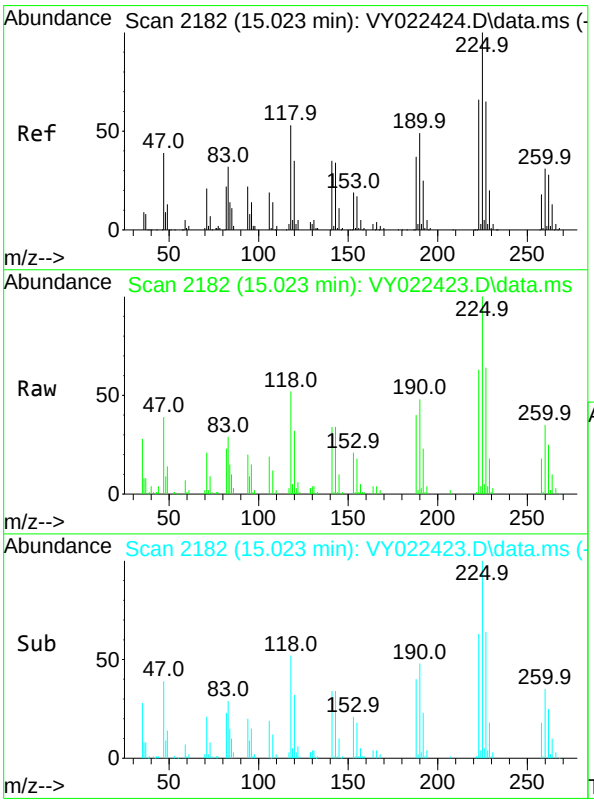
#93
1,2,4-Trichlorobenzene
Concen: 19.535 ug/l
RT: 14.919 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion:180 Resp: 49954

Ion	Ratio	Lower	Upper
180	100		
182	95.0	46.2	138.6
145	29.2	14.2	42.8

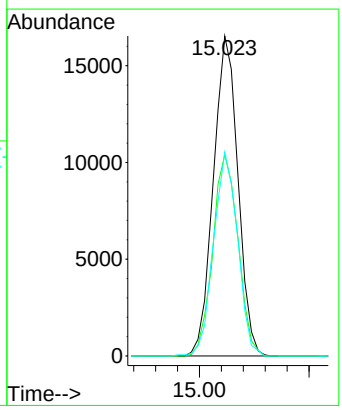


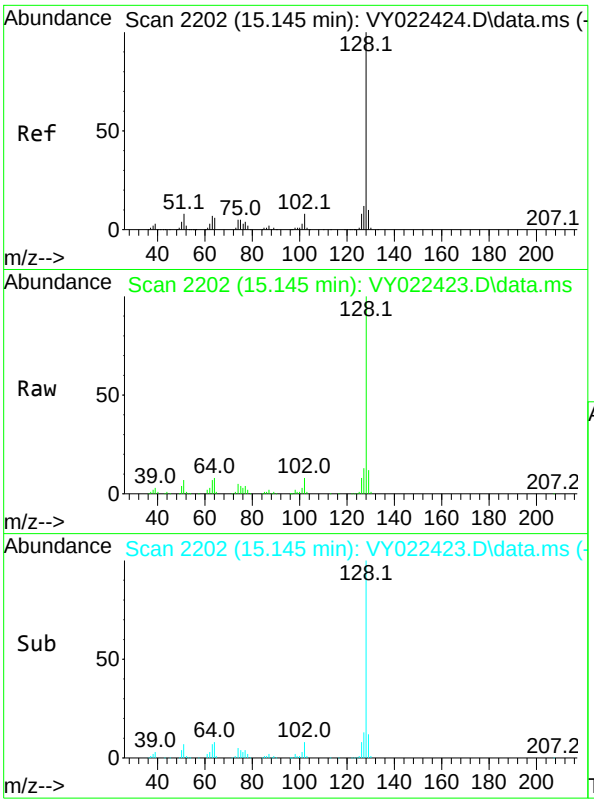


#94
Hexachlorobutadiene
Concen: 19.164 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion:225 Resp: 25718

Ion	Ratio	Lower	Upper
225	100		
223	64.5	32.6	97.7
227	62.5	33.0	99.0



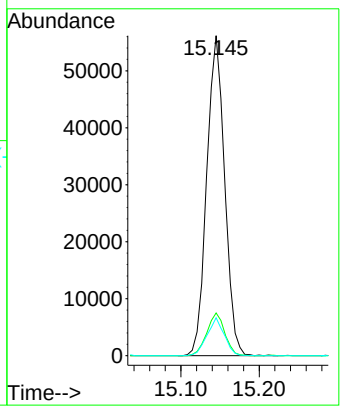


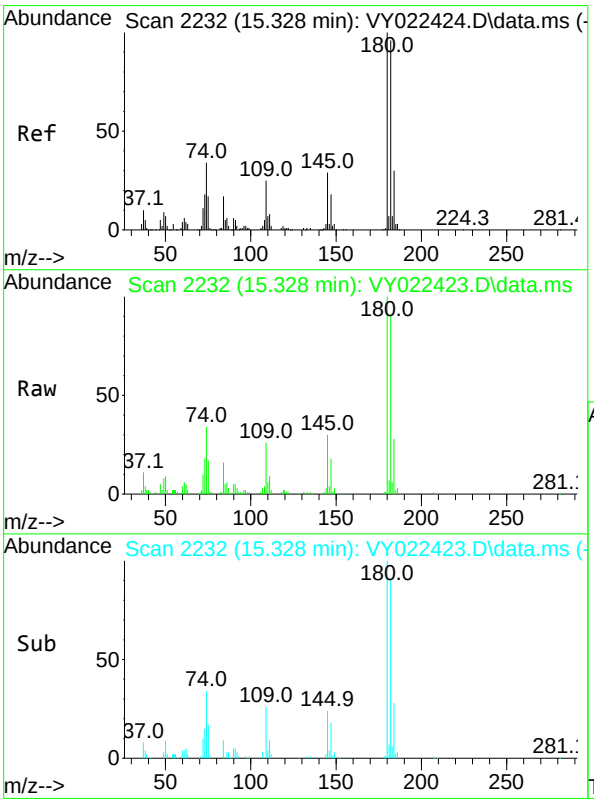
#95
Naphthalene
Concen: 18.870 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Tgt Ion:128 Resp: 89204

Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.2	15.4
129	11.4	8.5	12.7

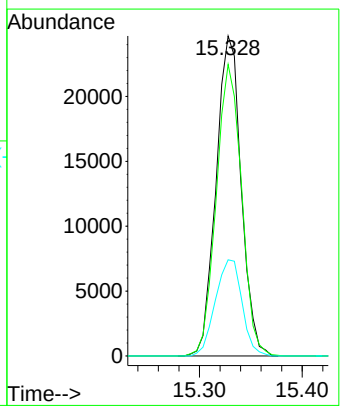




#96
1,2,3-Trichlorobenzene
Concen: 19.919 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. 0.000 min
Lab File: VY022423.D
Acq: 27 May 2025 09:36

Tgt Ion:180 Resp: 41774

Ion	Ratio	Lower	Upper
180	100		
182	91.9	48.1	144.3
145	31.9	14.9	44.5



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022424.D
Acq On : 27 May 2025 09:59
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Quant Time: May 28 15:24:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	251462	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	421648	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	359387	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	170568	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	133722	50.486	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 100.980%			
35) Dibromofluoromethane	7.640	113	122077	49.438	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 98.880%			
50) Toluene-d8	10.109	98	495900	49.264	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 98.520%			
62) 4-Bromofluorobenzene	12.408	95	149686	49.160	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 98.320%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	106455	44.373	ug/l	100
3) Chloromethane	2.068	50	300767	50.966	ug/l	100
4) Vinyl Chloride	2.202	62	365461	50.977	ug/l	100
5) Bromomethane	2.598	94	320598	49.210	ug/l	100
6) Chloroethane	2.739	64	255218	54.479	ug/l	100
7) Trichlorofluoromethane	3.056	101	300911	49.748	ug/l	100
8) Diethyl Ether	3.458	74	69604	49.906	ug/l	100
9) 1,1,2-Trichlorotrifluo...	3.818	101	130878	49.320	ug/l	100
10) Methyl Iodide	4.013	142	162763	54.366	ug/l	100
11) Tert butyl alcohol	4.884	59	44670	239.265	ug/l	100
12) 1,1-Dichloroethene	3.793	96	128456	48.757	ug/l	100
13) Acrolein	3.659	56	71175	254.433	ug/l	100
14) Allyl chloride	4.385	41	197586	49.856	ug/l	100
15) Acrylonitrile	5.067	53	140126	249.258	ug/l	100
16) Acetone	3.879	43	106570	244.853	ug/l	100
17) Carbon Disulfide	4.110	76	415611	49.433	ug/l	100
18) Methyl Acetate	4.397	43	77552	47.567	ug/l	100
19) Methyl tert-butyl Ether	5.122	73	348604	49.839	ug/l	100
20) Methylene Chloride	4.622	84	137958	44.887	ug/l	100
21) trans-1,2-Dichloroethene	5.116	96	141011	49.026	ug/l	100
22) Diisopropyl ether	6.024	45	433997	49.618	ug/l	100
23) Vinyl Acetate	5.970	43	1262323	251.347	ug/l	100
24) 1,1-Dichloroethane	5.921	63	258190	49.955	ug/l	100
25) 2-Butanone	6.908	43	178390	246.104	ug/l	100
26) 2,2-Dichloropropane	6.890	77	231499	49.466	ug/l	100
27) cis-1,2-Dichloroethene	6.896	96	163879	49.217	ug/l	100
28) Bromochloromethane	7.250	49	110266	51.091	ug/l	100
29) Tetrahydrofuran	7.268	42	119564	247.328	ug/l	100
30) Chloroform	7.427	83	257981	50.655	ug/l	100
31) Cyclohexane	7.701	56	236092	46.340	ug/l	100
32) 1,1,1-Trichloroethane	7.622	97	229531	49.660	ug/l	100
36) 1,1-Dichloropropene	7.841	75	193888	49.482	ug/l	100
37) Ethyl Acetate	6.988	43	84159	50.538	ug/l	100
38) Carbon Tetrachloride	7.823	117	202994	49.731	ug/l	100
39) Methylcyclohexane	9.109	83	258994	49.724	ug/l	100
40) Benzene	8.085	78	586562	50.308	ug/l	100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022424.D
Acq On : 27 May 2025 09:59
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Quant Time: May 28 15:24:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.226	41	49236	48.714	ug/l		90
42) 1,2-Dichloroethane	8.164	62	155379	50.458	ug/l		100
43) Isopropyl Acetate	8.201	43	183642	50.467	ug/l		100
44) Trichloroethene	8.865	130	144611	50.172	ug/l		100
45) 1,2-Dichloropropane	9.146	63	136232	49.730	ug/l		100
46) Dibromomethane	9.231	93	76743	50.148	ug/l		100
47) Bromodichloromethane	9.426	83	195650	49.717	ug/l		100
48) Methyl methacrylate	9.225	41	84239	49.870	ug/l		100
49) 1,4-Dioxane	9.237	88	16708	988.479	ug/l		100
51) 4-Methyl-2-Pentanone	9.999	43	460034	256.225	ug/l		100
52) Toluene	10.176	92	365833	50.235	ug/l		100
53) t-1,3-Dichloropropene	10.396	75	182819	49.875	ug/l		100
54) cis-1,3-Dichloropropene	9.859	75	213990	49.683	ug/l		100
55) 1,1,2-Trichloroethane	10.572	97	96763	50.011	ug/l		100
56) Ethyl methacrylate	10.438	69	143409	51.650	ug/l		100
57) 1,3-Dichloropropane	10.719	76	170799	50.093	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.713	63	352804	254.955	ug/l		100
59) 2-Hexanone	10.761	43	305977	260.045	ug/l		100
60) Dibromochloromethane	10.914	129	127232	51.479	ug/l		100
61) 1,2-Dibromoethane	11.018	107	90642	51.221	ug/l		100
64) Tetrachloroethene	10.652	164	154172	50.371	ug/l		100
65) Chlorobenzene	11.444	112	383505	50.045	ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.517	131	132697	51.108	ug/l		100
67) Ethyl Benzene	11.524	91	711551	50.007	ug/l		100
68) m/p-Xylenes	11.627	106	543665	100.776	ug/l		100
69) o-Xylene	11.956	106	254880	50.270	ug/l		100
70) Styrene	11.969	104	430304	50.969	ug/l		100
71) Bromoform	12.133	173	68851	50.626	ug/l		100
73) Isopropylbenzene	12.255	105	660245	49.183	ug/l		100
74) N-amyl acetate	12.072	43	170547	51.919	ug/l		100
75) 1,1,2,2-Tetrachloroethane	12.505	83	104852	49.575	ug/l		100
76) 1,2,3-Trichloropropane	12.560	75	149588	87.554	ug/l	#	100
77) Bromobenzene	12.536	156	145109	50.230	ug/l		100
78) n-propylbenzene	12.596	91	803233	49.859	ug/l		100
79) 2-Chlorotoluene	12.682	91	429534	49.254	ug/l		100
80) 1,3,5-Trimethylbenzene	12.737	105	525186	50.070	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.304	75	36715	48.597	ug/l		100
82) 4-Chlorotoluene	12.779	91	446697	49.734	ug/l		100
83) tert-Butylbenzene	12.999	119	470027	49.598	ug/l		100
84) 1,2,4-Trimethylbenzene	13.042	105	531189	50.324	ug/l		100
85) sec-Butylbenzene	13.176	105	706452	50.266	ug/l		100
86) p-Isopropyltoluene	13.291	119	592083	50.450	ug/l		100
87) 1,3-Dichlorobenzene	13.285	146	289072	49.731	ug/l		100
88) 1,4-Dichlorobenzene	13.365	146	280006	50.380	ug/l		100
89) n-Butylbenzene	13.615	91	568088	51.626	ug/l		100
90) Hexachloroethane	13.883	117	117444	50.287	ug/l		100
91) 1,2-Dichlorobenzene	13.657	146	241569	49.756	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.273	75	15930	48.741	ug/l		100
93) 1,2,4-Trichlorobenzene	14.919	180	141204	52.462	ug/l		100
94) Hexachlorobutadiene	15.023	225	72391	51.250	ug/l		100
95) Naphthalene	15.145	128	265056	53.269	ug/l		100
96) 1,2,3-Trichlorobenzene	15.328	180	116609	52.826	ug/l		100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022424.D
Acq On : 27 May 2025 09:59
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Quant Time: May 28 15:24:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration

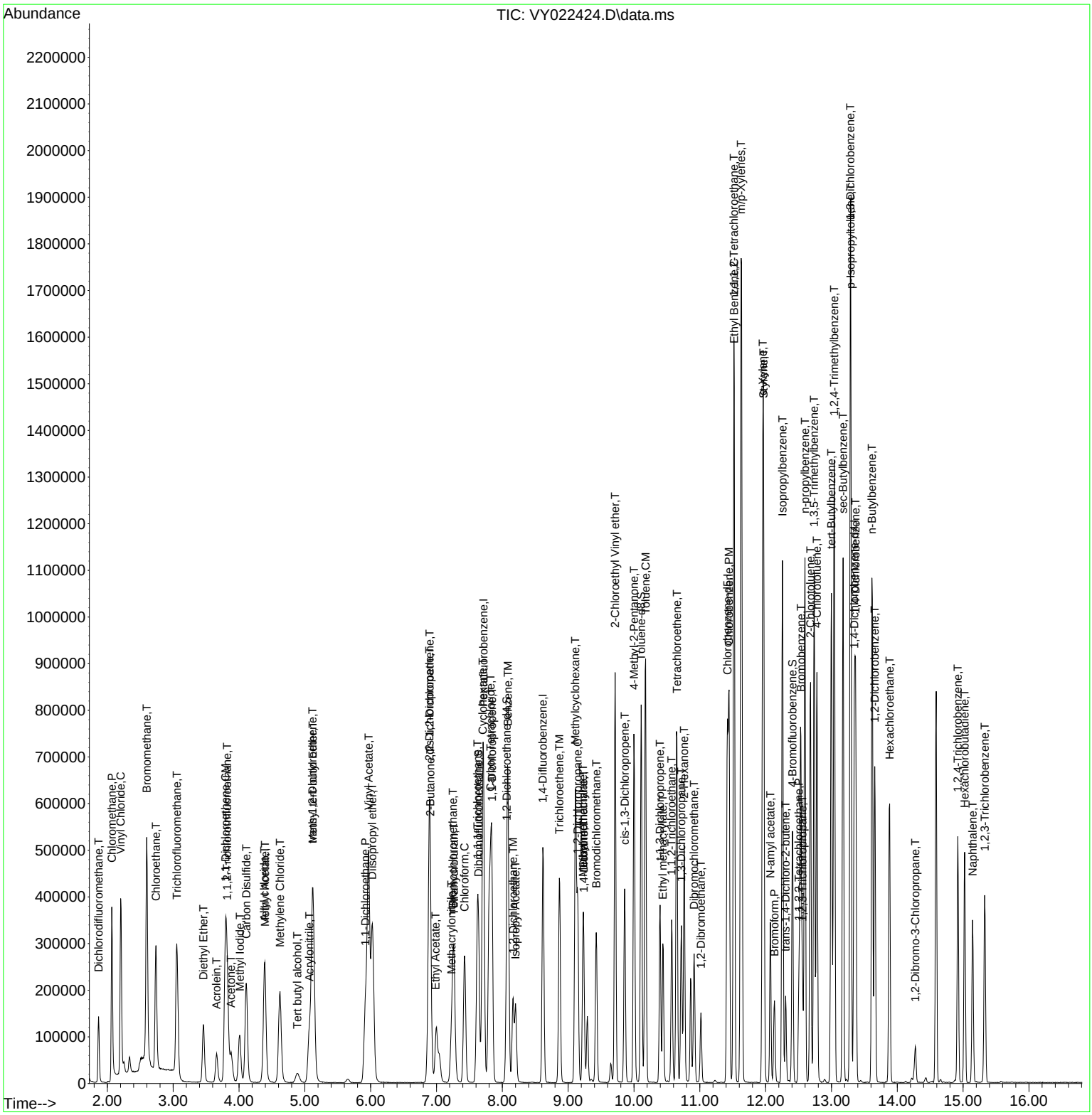
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

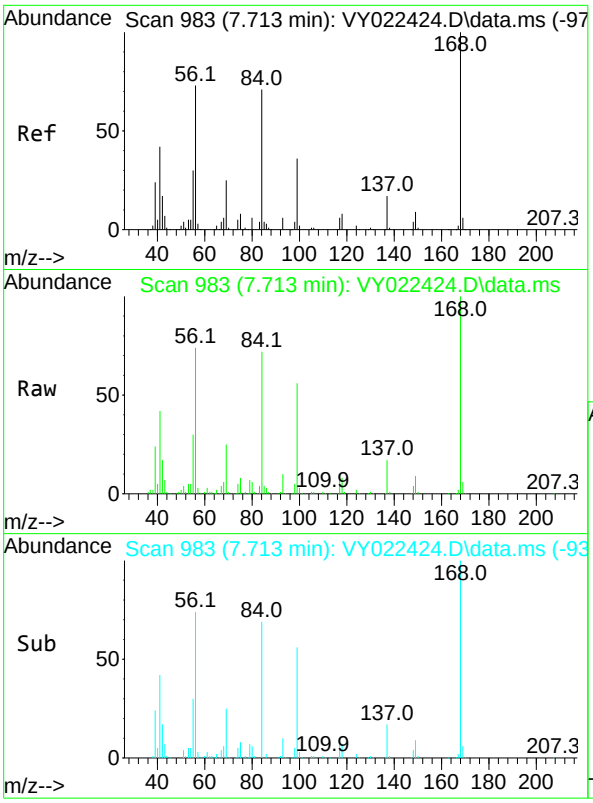
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022424.D
Acq On : 27 May 2025 09:59
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Quant Time: May 28 15:24:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration



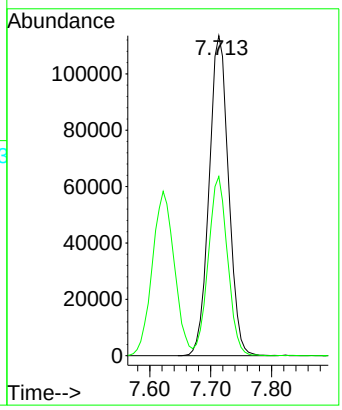


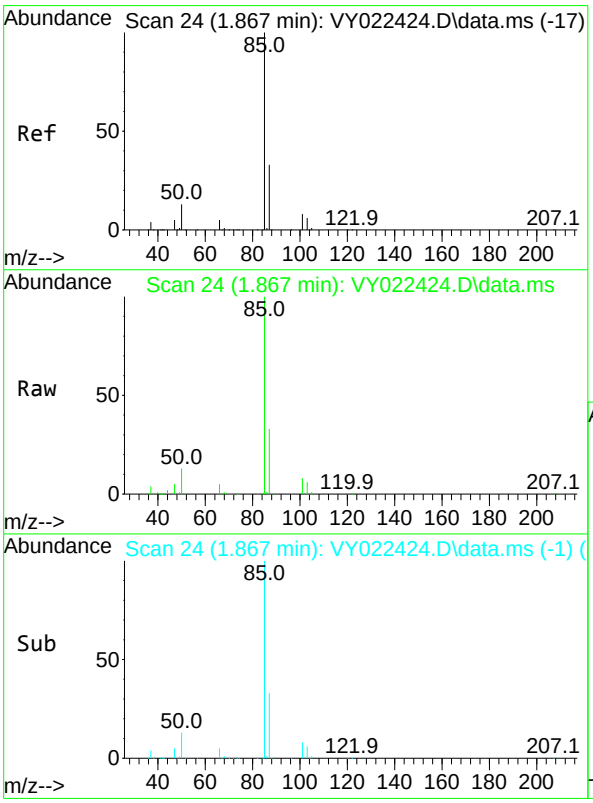
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion:168 Resp: 251462

Ion	Ratio	Lower	Upper
168	100		
99	55.9	44.7	67.1

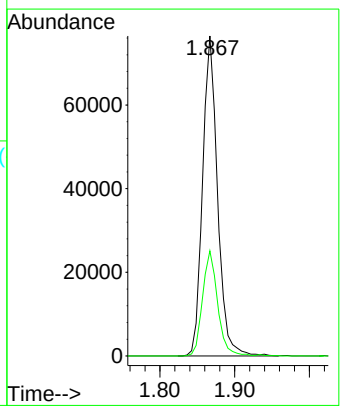


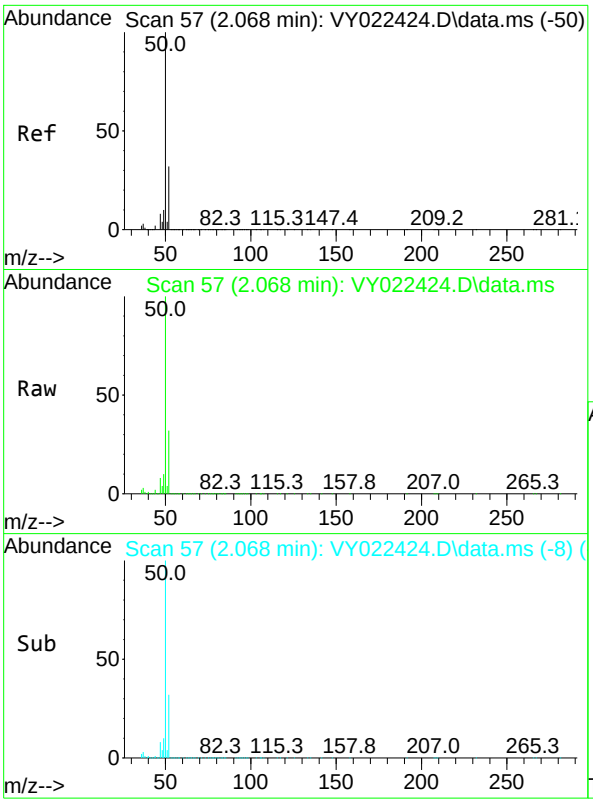


#2
Dichlorodifluoromethane
Concen: 44.373 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 85 Resp: 106455

Ion	Ratio	Lower	Upper
85	100		
87	32.8	16.4	49.2



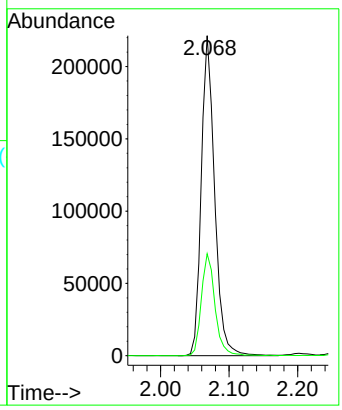


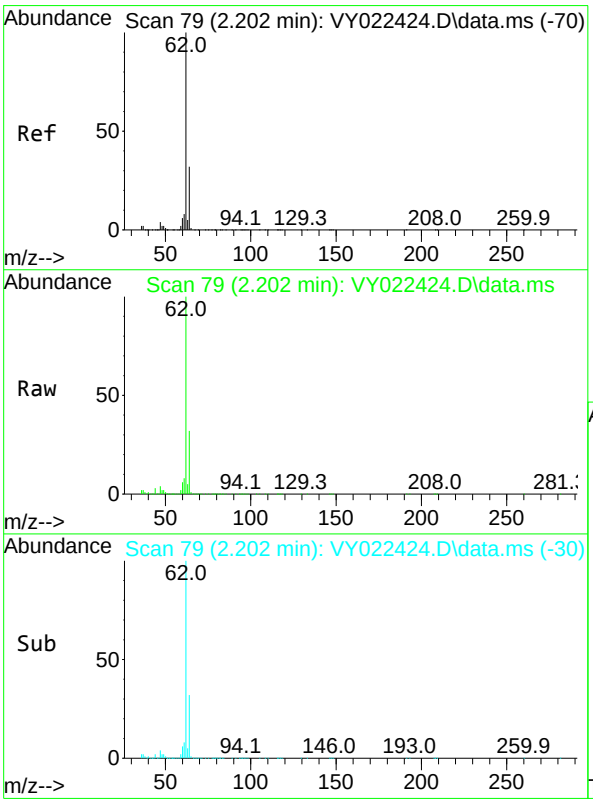
#3
Chloromethane
Concen: 50.966 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 50 Resp: 300767

Ion	Ratio	Lower	Upper
50	100		
52	31.9	25.5	38.3

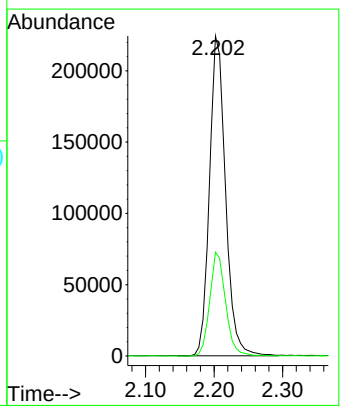


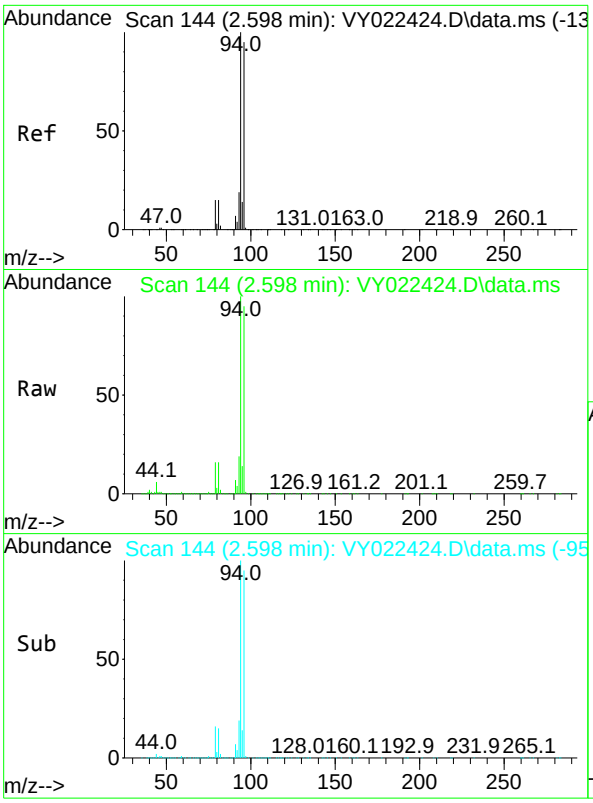


#4
Vinyl Chloride
Concen: 50.977 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 62 Resp: 365461

Ion	Ratio	Lower	Upper
62	100		
64	32.5	26.0	39.0



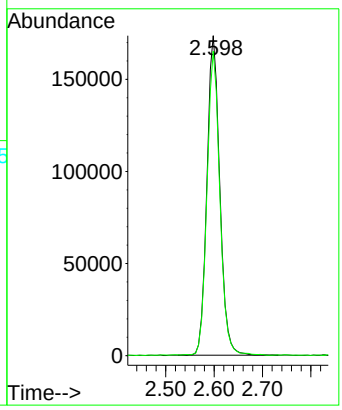


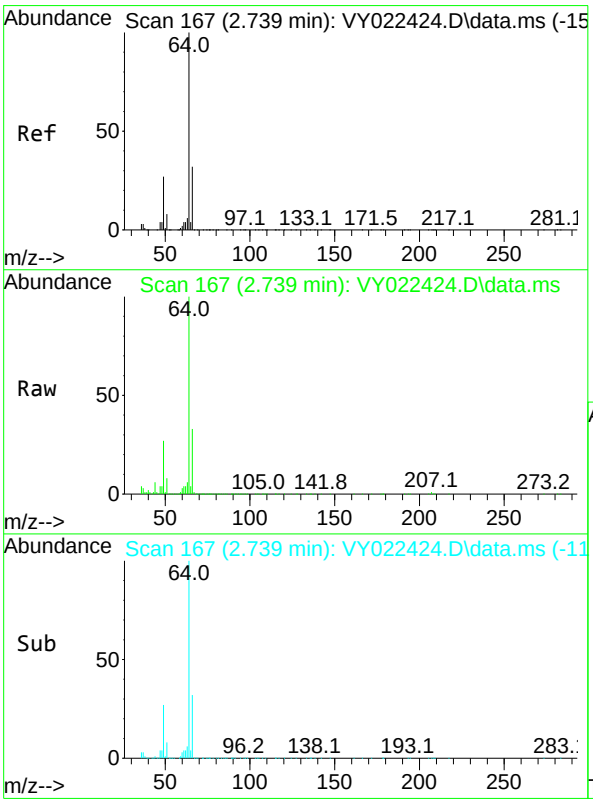
#5
Bromomethane
Concen: 49.210 ug/l
RT: 2.598 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 94 Resp: 320598

Ion	Ratio	Lower	Upper
94	100		
96	95.0	76.0	114.0

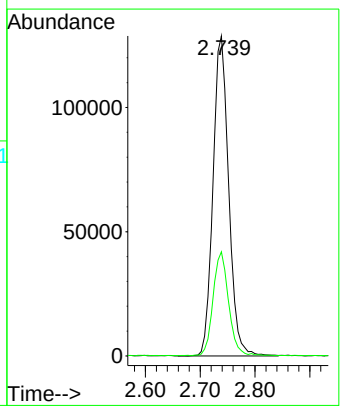


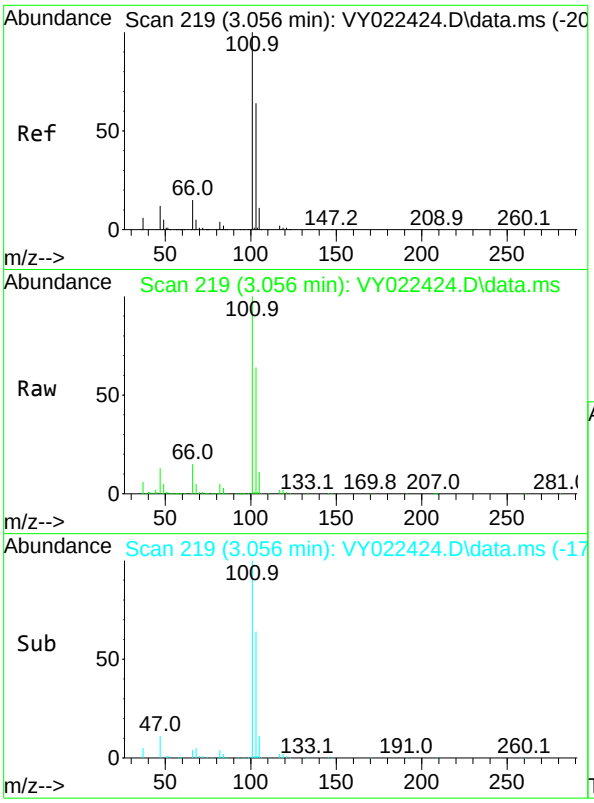


#6
Chloroethane
Concen: 54.479 ug/l
RT: 2.739 min Scan# 167
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 64 Resp: 255218

Ion	Ratio	Lower	Upper
64	100		
66	32.4	25.9	38.9



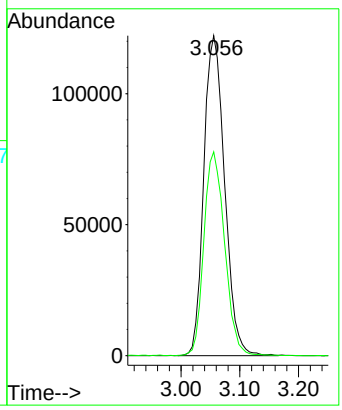


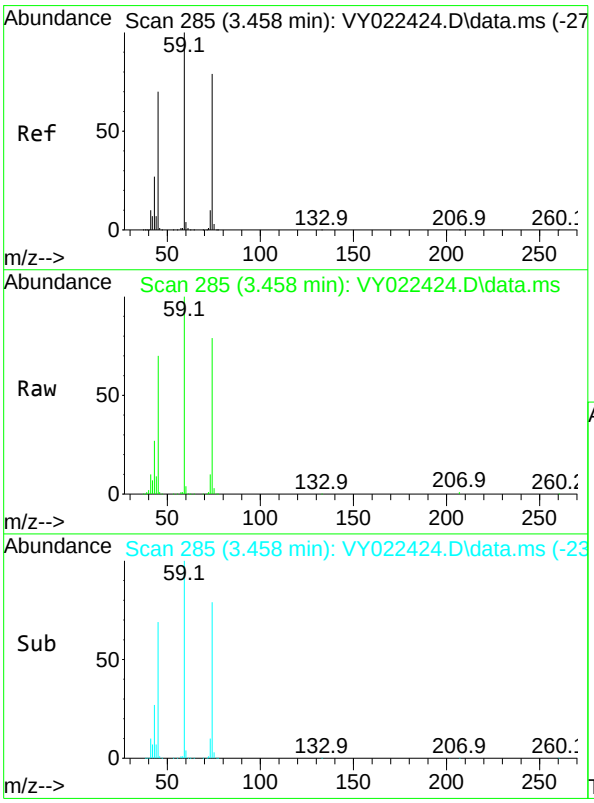
#7
Trichlorofluoromethane
Concen: 49.748 ug/l
RT: 3.056 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion:101 Resp: 300911

Ion	Ratio	Lower	Upper
101	100		
103	63.6	50.9	76.3

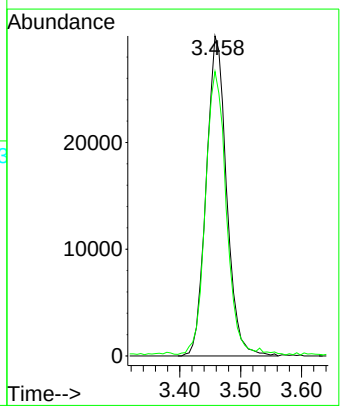


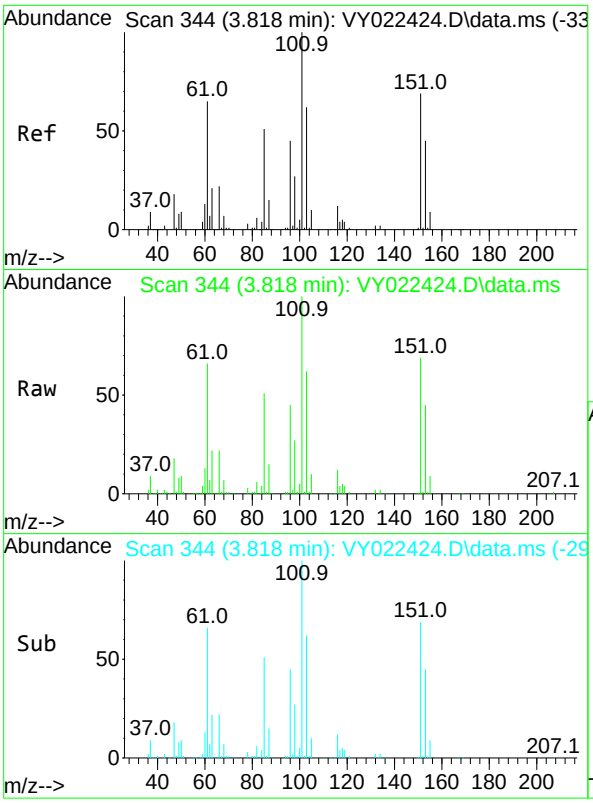


#8
Diethyl Ether
Concen: 49.906 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 74 Resp: 69604

Ion	Ratio	Lower	Upper
74	100		
45	89.7	44.9	134.5



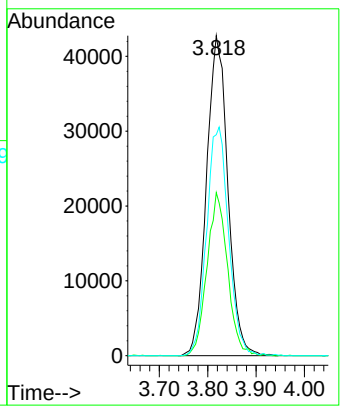


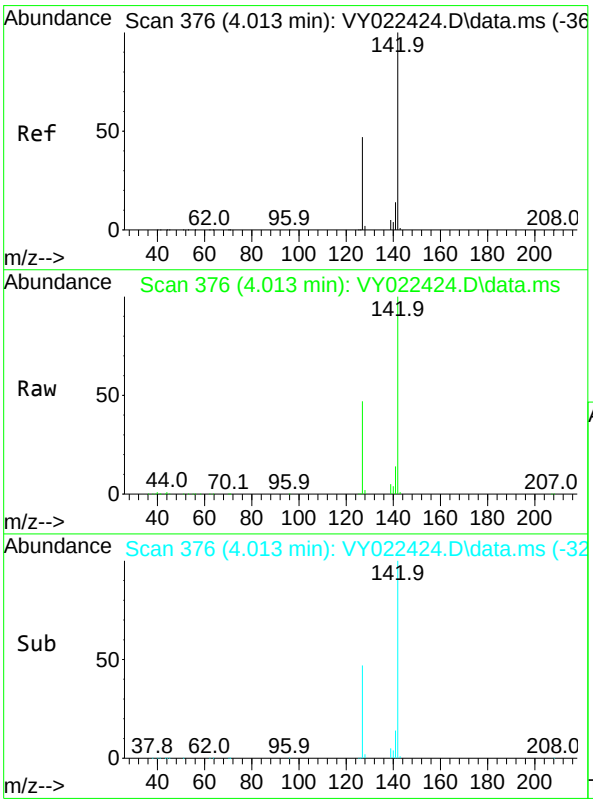
#9
1,1,2-Trichlorotrifluoroethane
Concen: 49.320 ug/l
RT: 3.818 min Scan# 34
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion:101 Resp: 130878

Ion	Ratio	Lower	Upper
101	100		
85	49.0	39.2	58.8
151	73.5	58.8	88.2

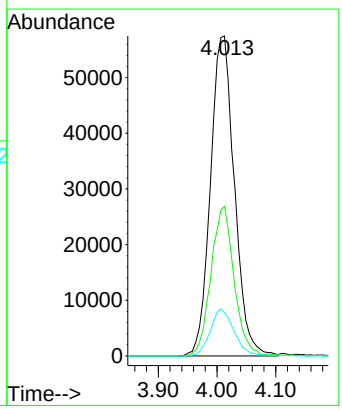


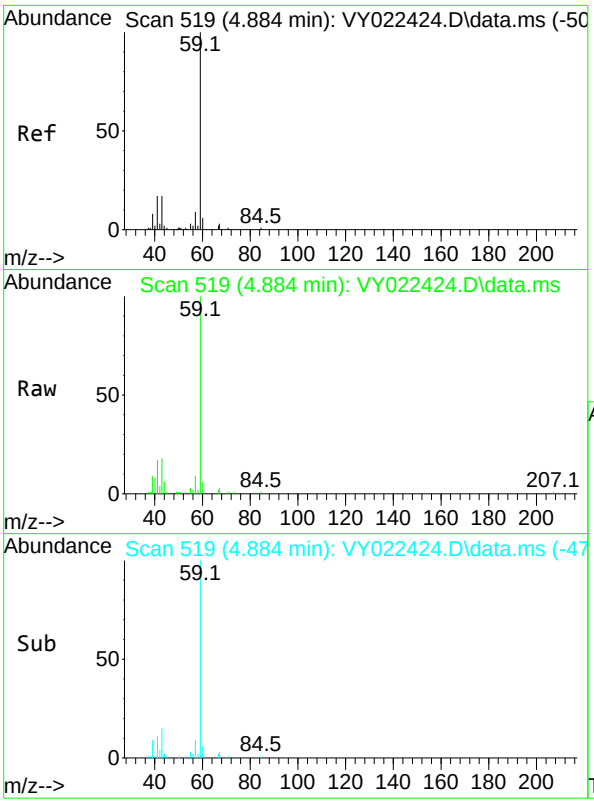


#10
Methyl Iodide
Concen: 54.366 ug/l
RT: 4.013 min Scan# 376
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion:142 Resp: 162763

Ion	Ratio	Lower	Upper
142	100		
127	45.3	36.2	54.4
141	14.5	11.6	17.4



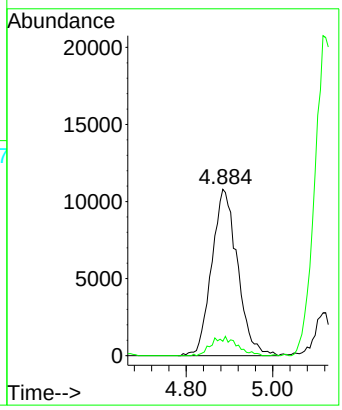


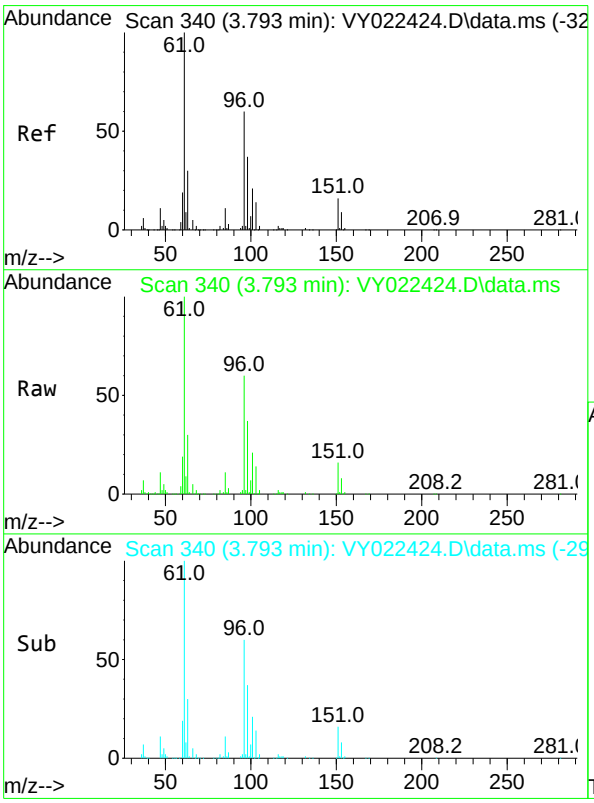
#11
Tert butyl alcohol
Concen: 239.265 ug/l
RT: 4.884 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 59 Resp: 44670

Ion	Ratio	Lower	Upper
59	100		
57	11.4	9.1	13.7

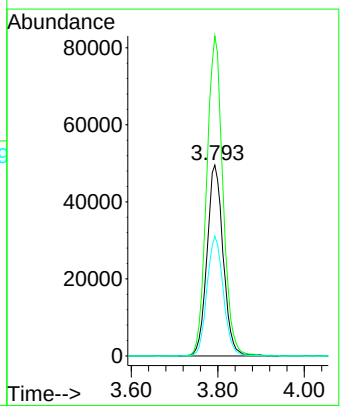


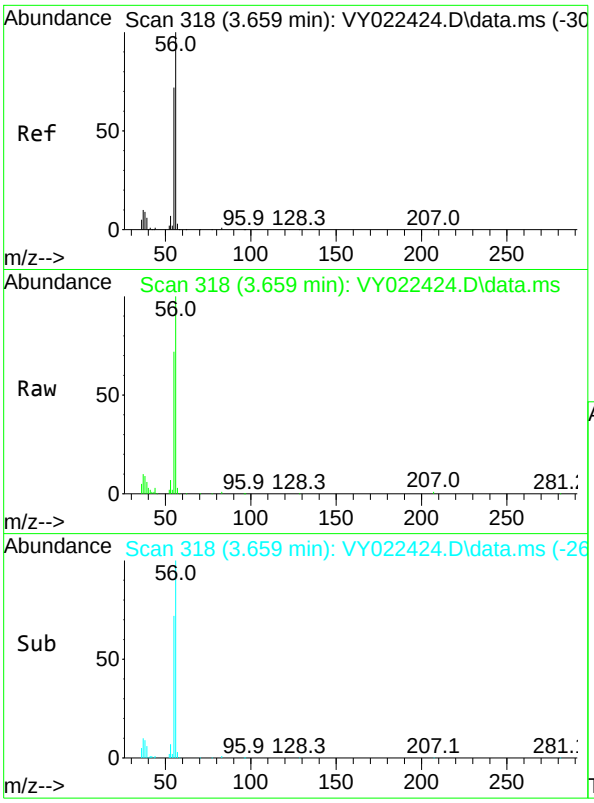


#12
1,1-Dichloroethene
Concen: 48.757 ug/l
RT: 3.793 min Scan# 340
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 96 Resp: 128456

Ion	Ratio	Lower	Upper
96	100		
61	167.6	134.1	201.1
98	62.7	50.2	75.2



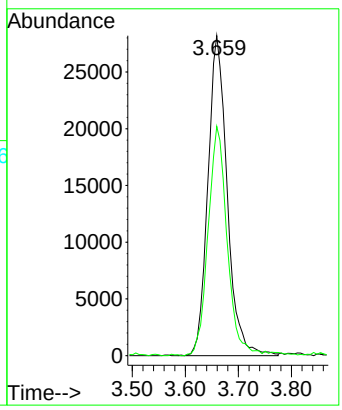


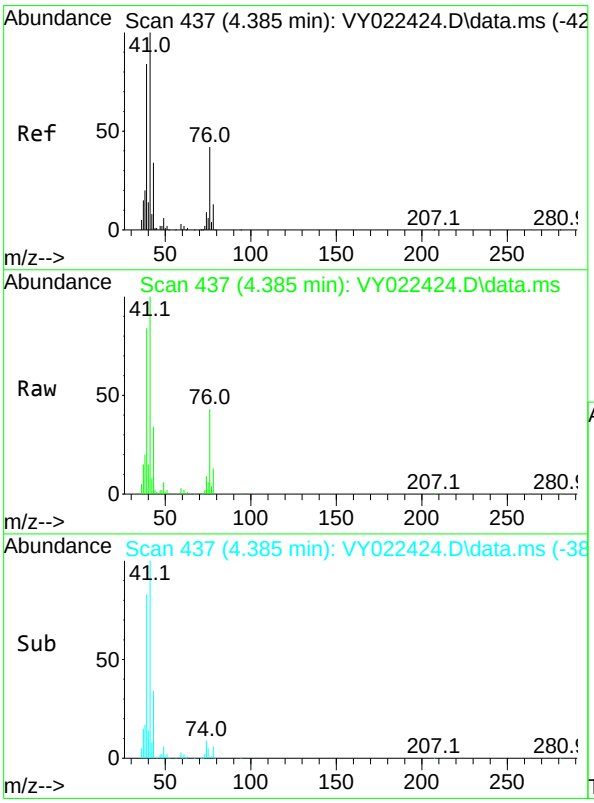
#13
Acrolein
Concen: 254.433 ug/l
RT: 3.659 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 56 Resp: 71175

Ion	Ratio	Lower	Upper
56	100		
55	70.6	56.5	84.7

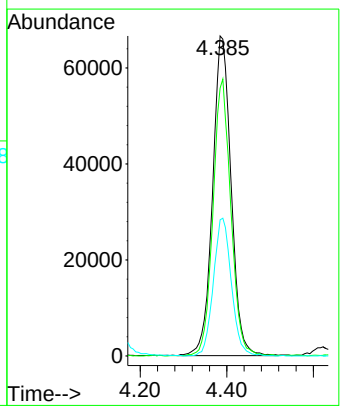


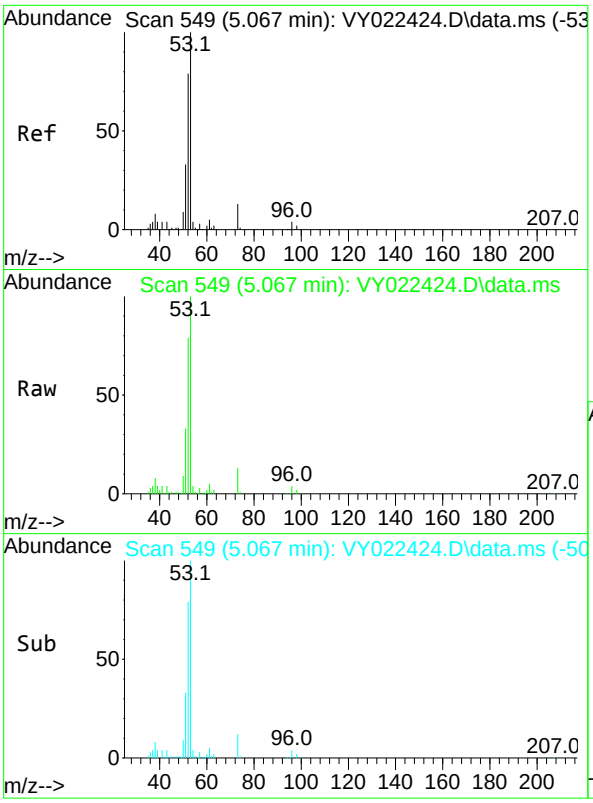


#14
Allyl chloride
Concen: 49.856 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 41 Resp: 197586

Ion	Ratio	Lower	Upper
41	100		
39	83.3	66.6	100.0
76	42.1	33.7	50.5



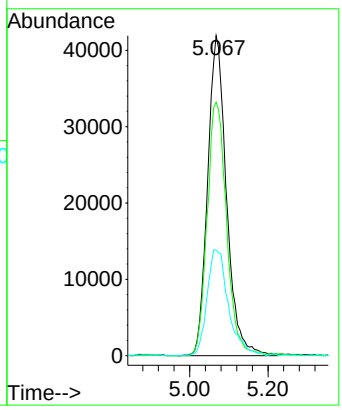


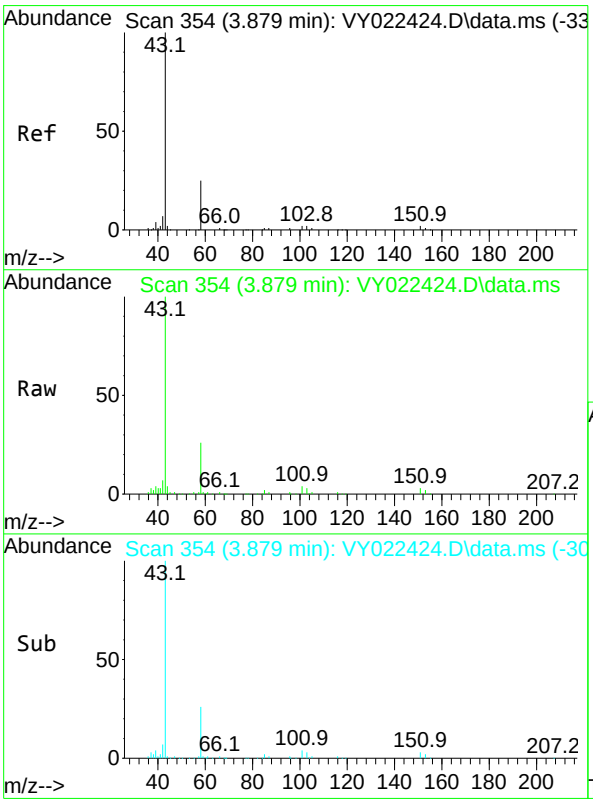
#15
Acrylonitrile
Concen: 249.258 ug/l
RT: 5.067 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 53 Resp: 140126

Ion	Ratio	Lower	Upper
53	100		
52	81.4	65.1	97.7
51	37.5	30.0	45.0

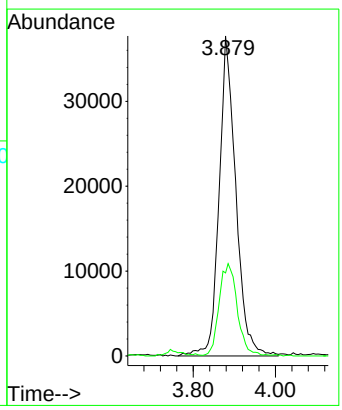


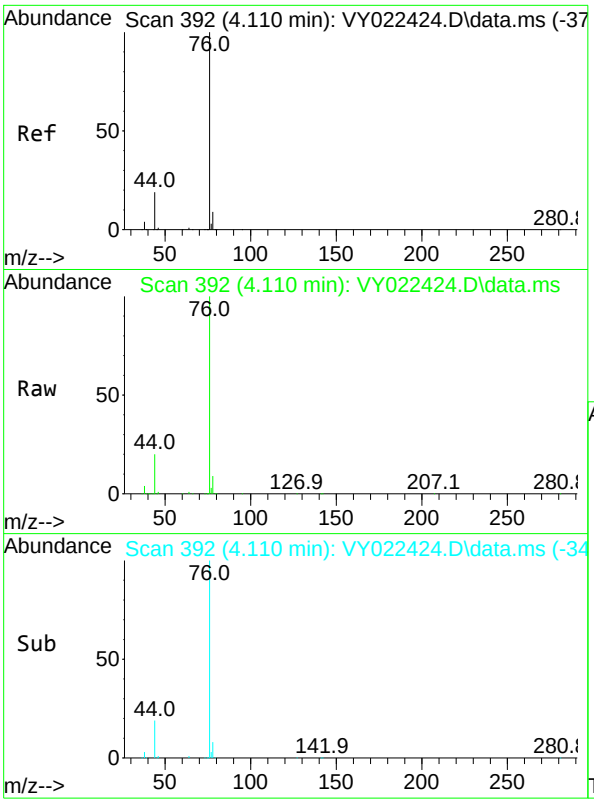


#16
Acetone
Concen: 244.853 ug/l
RT: 3.879 min Scan# 354
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 43 Resp: 106570

Ion	Ratio	Lower	Upper
43	100		
58	25.7	20.6	30.8



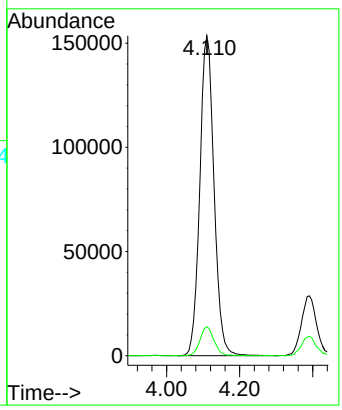


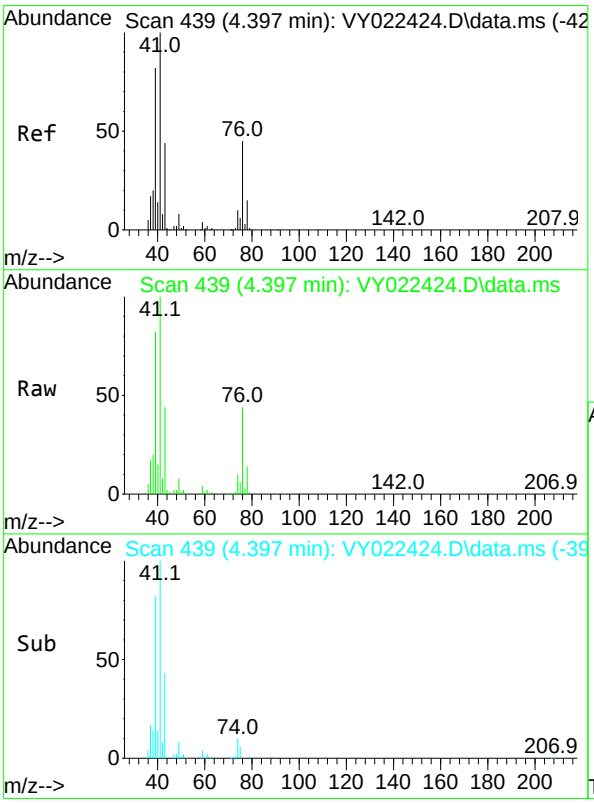
#17
Carbon Disulfide
Concen: 49.433 ug/l
RT: 4.110 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 76 Resp: 415611

Ion	Ratio	Lower	Upper
76	100		
78	9.0	7.2	10.8

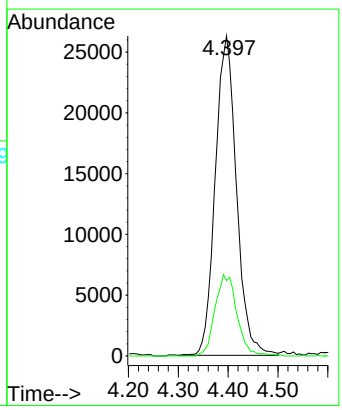


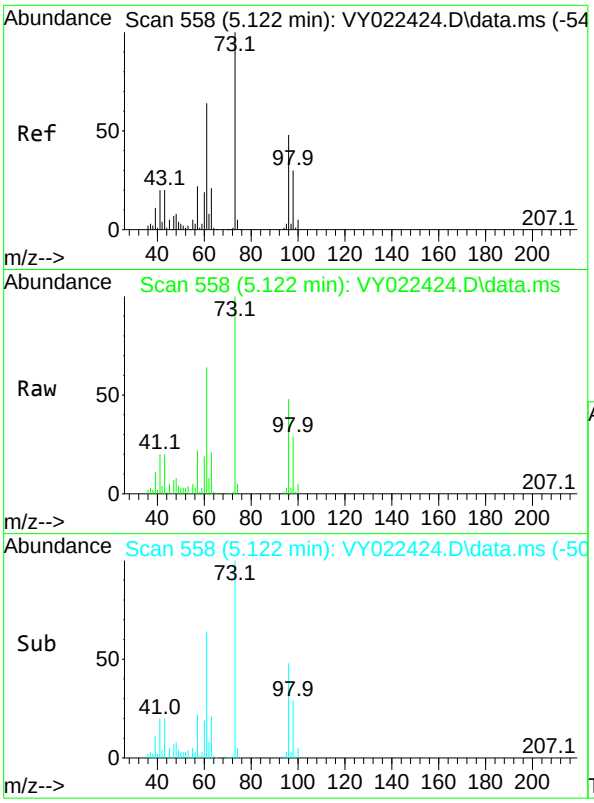


#18
Methyl Acetate
Concen: 47.567 ug/l
RT: 4.397 min Scan# 439
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 43 Resp: 77552

Ion	Ratio	Lower	Upper
43	100		
74	26.5	21.2	31.8



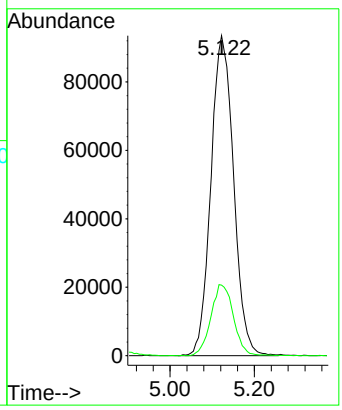


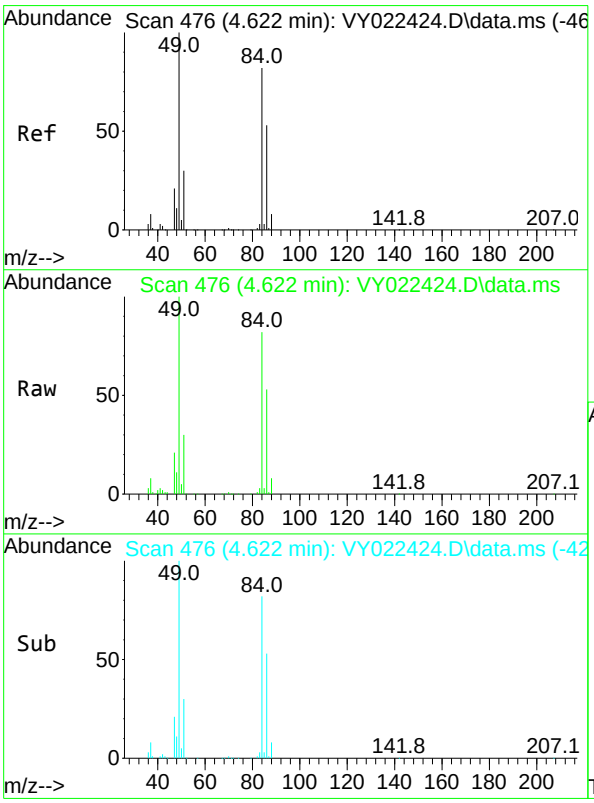
#19
Methyl tert-butyl Ether
Concen: 49.839 ug/l
RT: 5.122 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 73 Resp: 348604

Ion	Ratio	Lower	Upper
73	100		
57	22.1	17.7	26.5

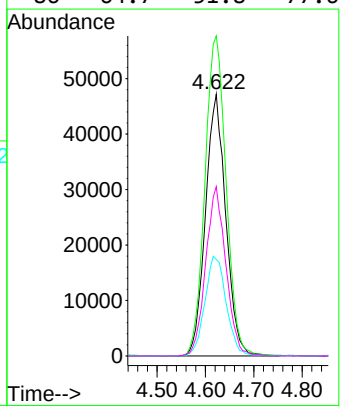


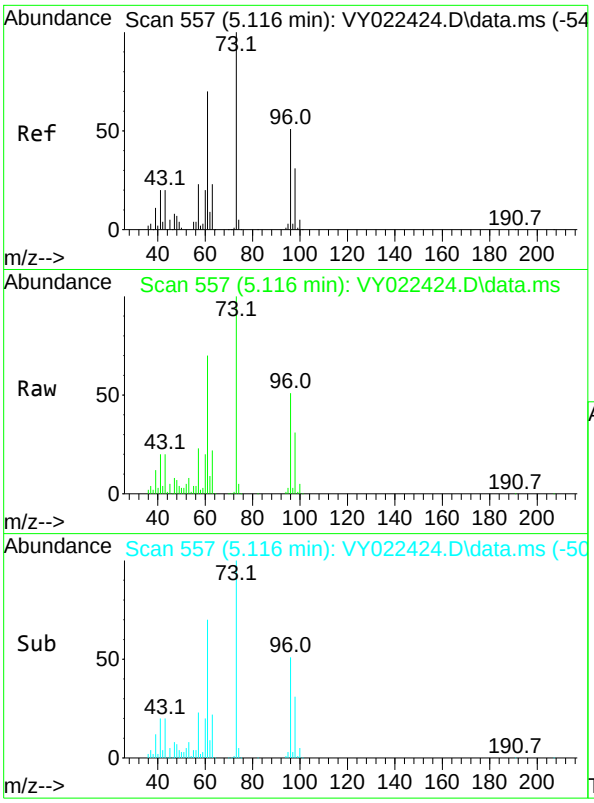


#20
Methylene Chloride
Concen: 44.887 ug/l
RT: 4.622 min Scan# 476
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 84 Resp: 137958

Ion	Ratio	Lower	Upper
84	100		
49	122.3	97.8	146.8
51	36.9	29.5	44.3
86	64.7	51.8	77.6



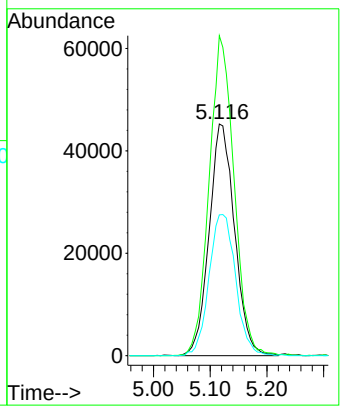


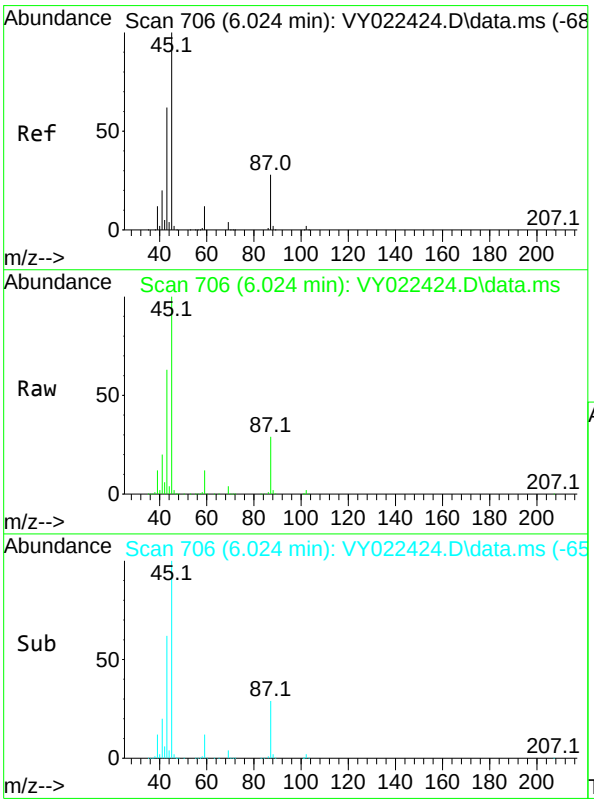
#21
trans-1,2-Dichloroethene
Concen: 49.026 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 96 Resp: 141011

Ion	Ratio	Lower	Upper
96	100		
61	138.0	110.4	165.6
98	60.8	48.6	73.0

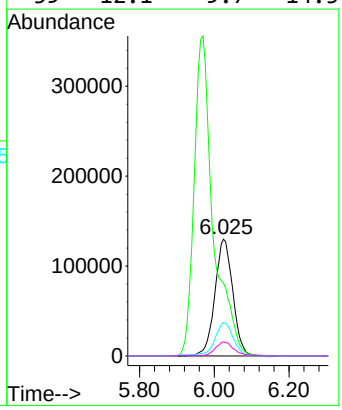


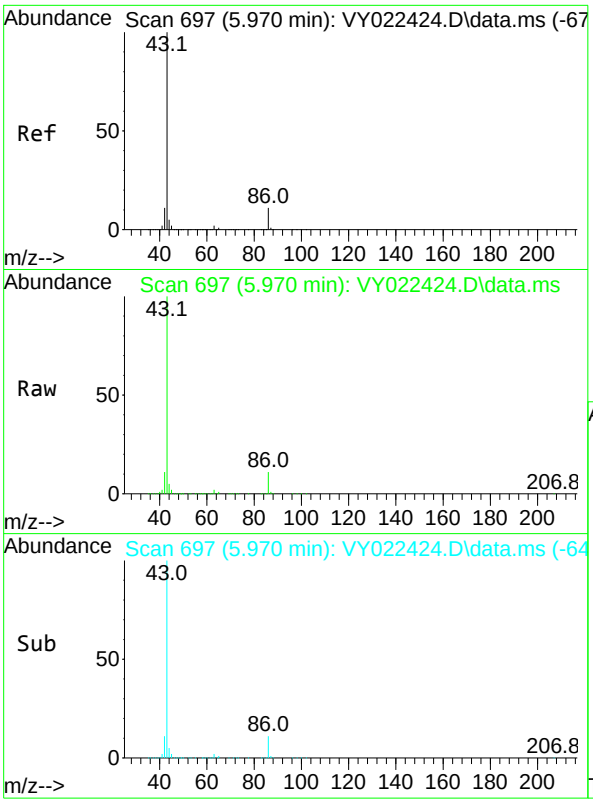


#22
Diisopropyl ether
Concen: 49.618 ug/l
RT: 6.024 min Scan# 706
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 45 Resp: 433997

Ion	Ratio	Lower	Upper
45	100		
43	62.3	49.8	74.8
87	28.8	23.0	34.6
59	12.1	9.7	14.5



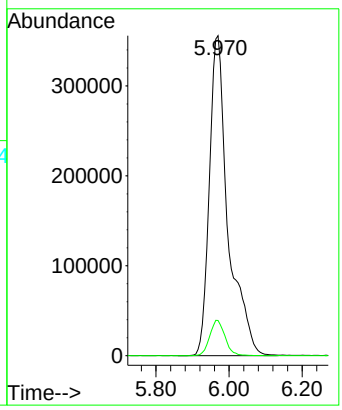


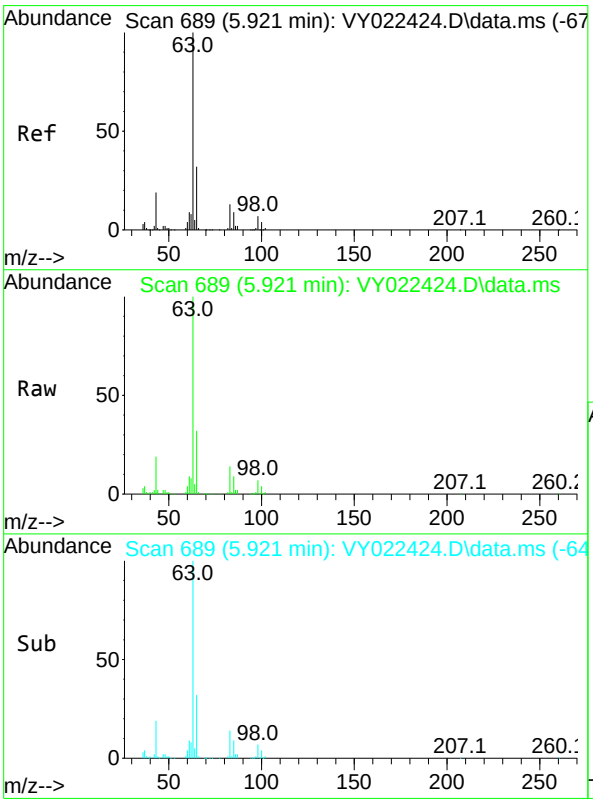
#23
Vinyl Acetate
Concen: 251.347 ug/l
RT: 5.970 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 1262323

Ion	Ratio	Lower	Upper
43	100		
86	11.0	8.8	13.2

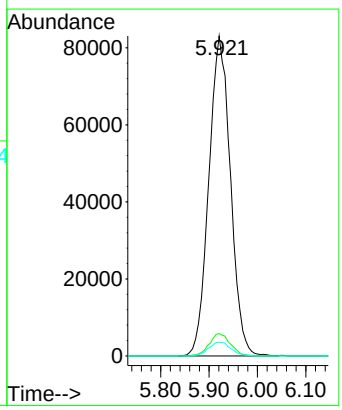


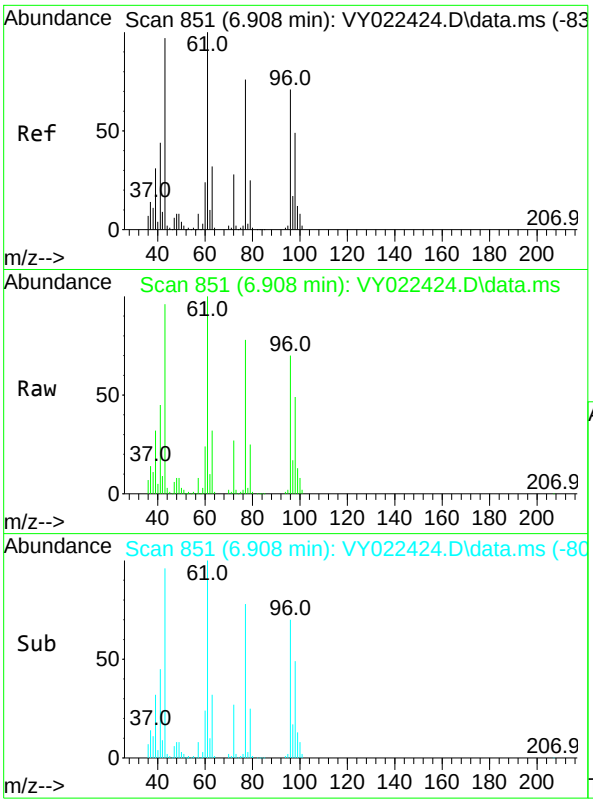


#24
1,1-Dichloroethane
Concen: 49.955 ug/l
RT: 5.921 min Scan# 689
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 63 Resp: 258190

Ion	Ratio	Lower	Upper
63	100		
98	7.0	3.5	10.5
100	4.3	2.1	6.5



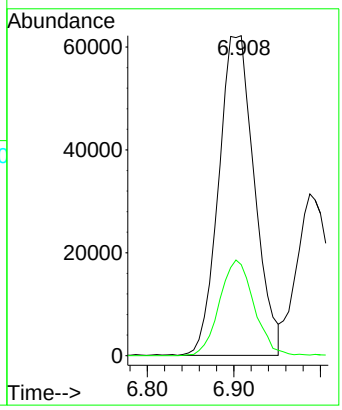


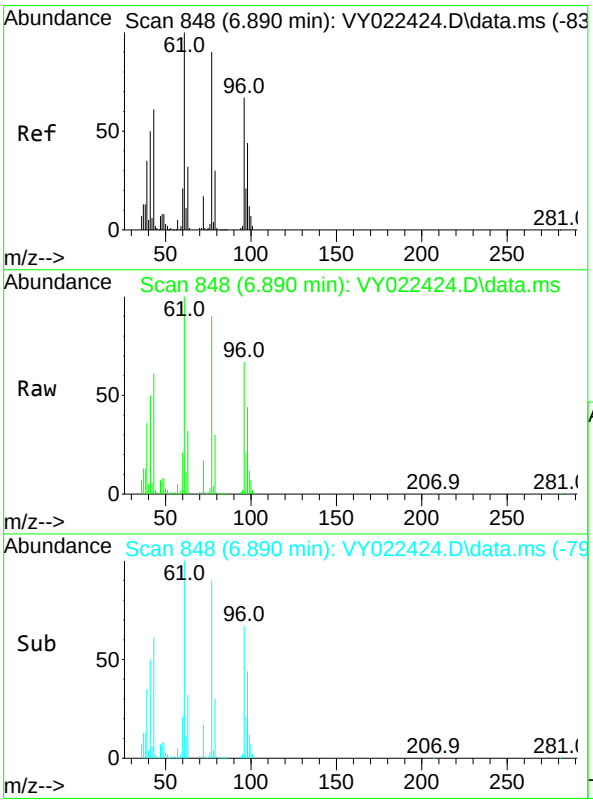
#25
2-Butanone
Concen: 246.104 ug/l
RT: 6.908 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 178390

Ion	Ratio	Lower	Upper
43	100		
72	28.5	22.8	34.2

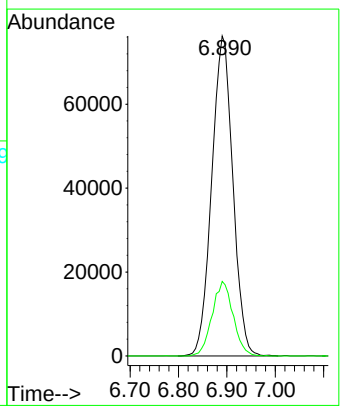


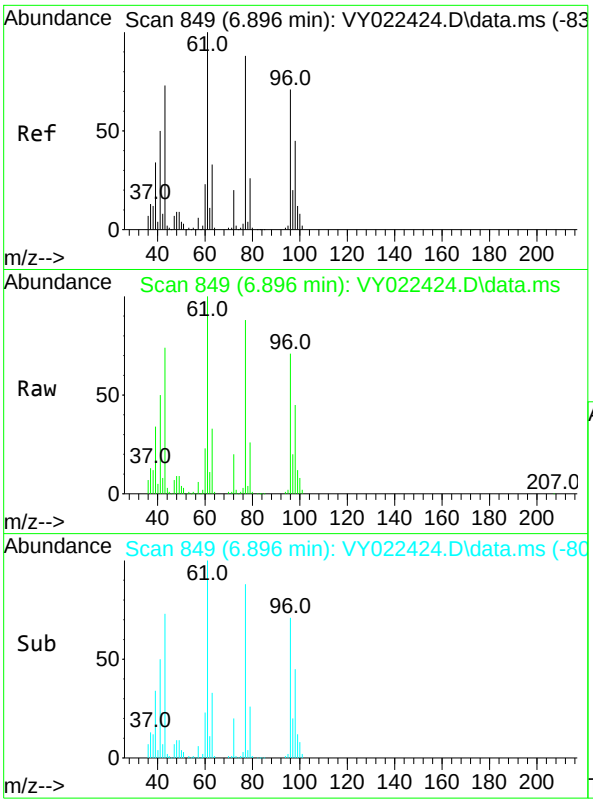


#26
2,2-Dichloropropane
Concen: 49.466 ug/l
RT: 6.890 min Scan# 848
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 77 Resp: 231499

Ion	Ratio	Lower	Upper
77	100		
97	23.1	11.6	34.7



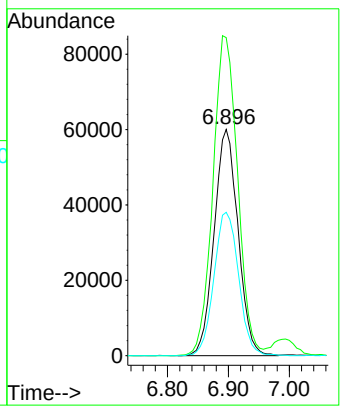


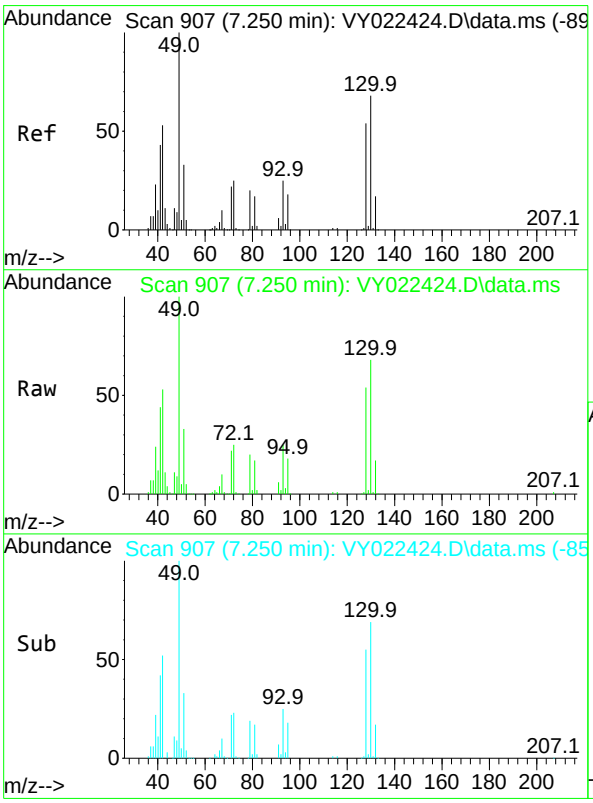
#27
cis-1,2-Dichloroethene
Concen: 49.217 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 96 Resp: 163879

Ion	Ratio	Lower	Upper
96	100		
61	146.0	0.0	292.0
98	65.5	0.0	131.0

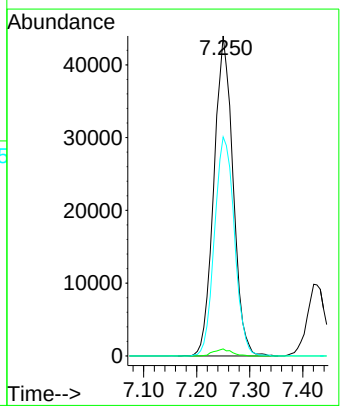


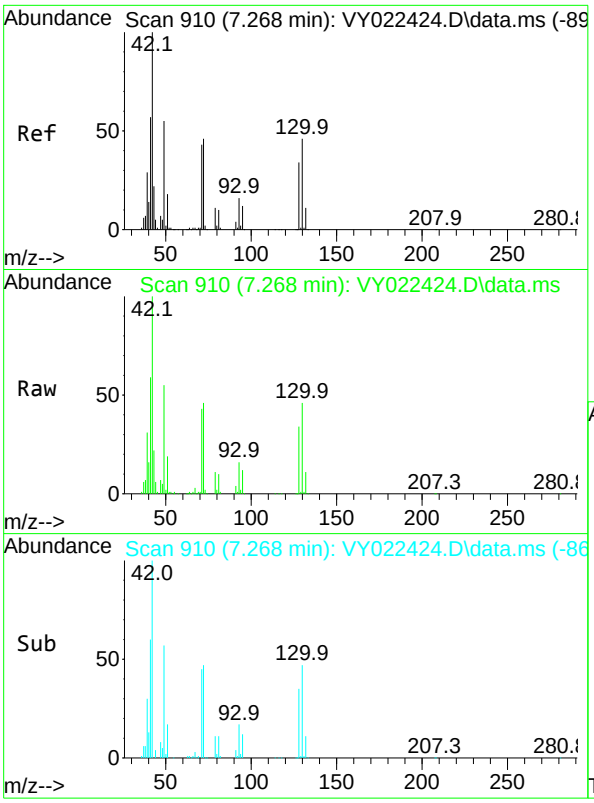


#28
Bromochloromethane
Concen: 51.091 ug/l
RT: 7.250 min Scan# 907
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 49 Resp: 110266

Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	4.0
130	71.1	56.9	85.3



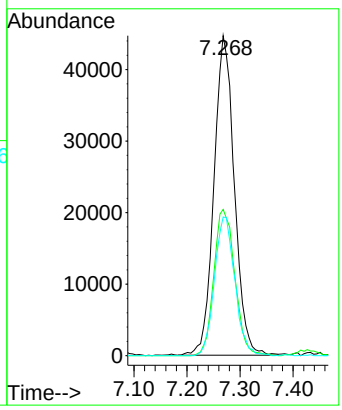


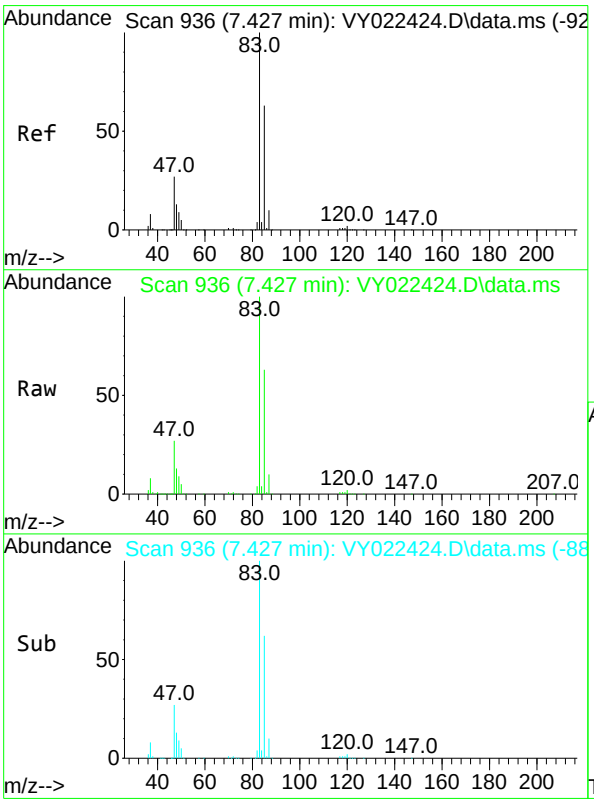
#29
Tetrahydrofuran
Concen: 247.328 ug/l
RT: 7.268 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 42 Resp: 119564

Ion	Ratio	Lower	Upper
42	100		
72	47.1	37.7	56.5
71	43.4	34.7	52.1

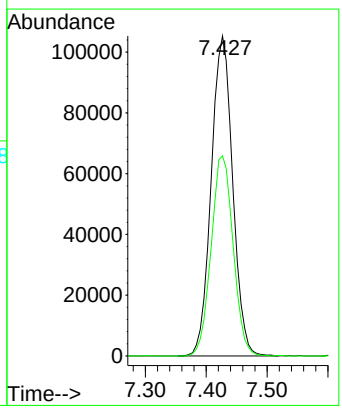


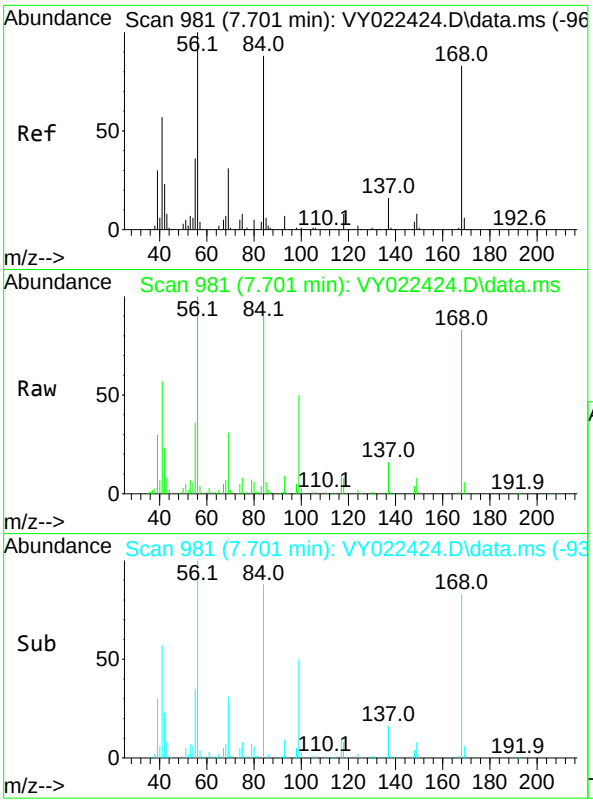


#30
Chloroform
Concen: 50.655 ug/l
RT: 7.427 min Scan# 936
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 83 Resp: 257981

Ion	Ratio	Lower	Upper
83	100		
85	62.6	50.1	75.1



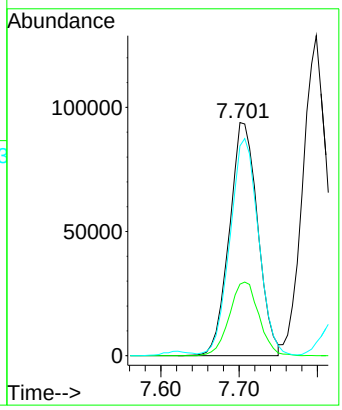


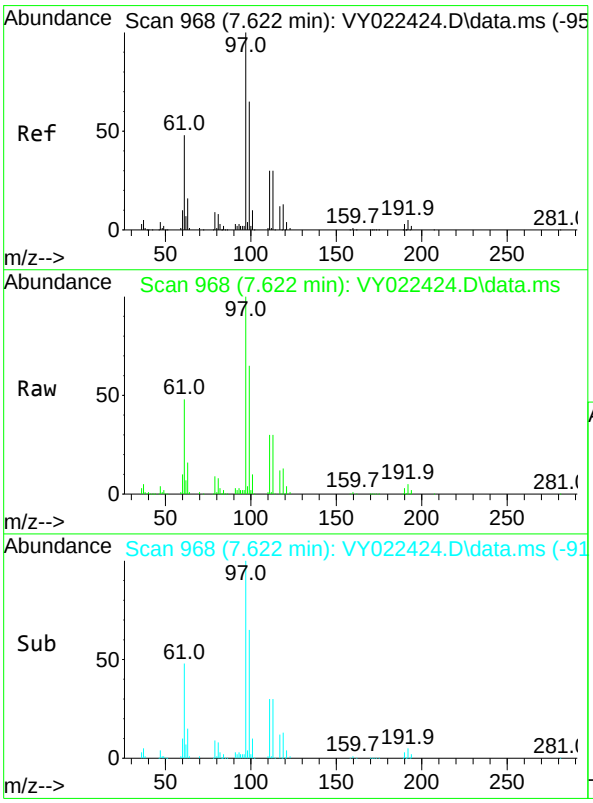
#31
Cyclohexane
Concen: 46.340 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 56 Resp: 236092

Ion	Ratio	Lower	Upper
56	100		
69	30.7	24.6	36.8
84	88.0	70.4	105.6

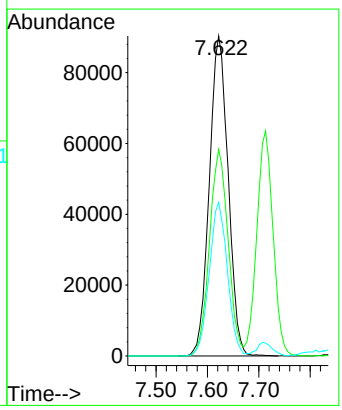


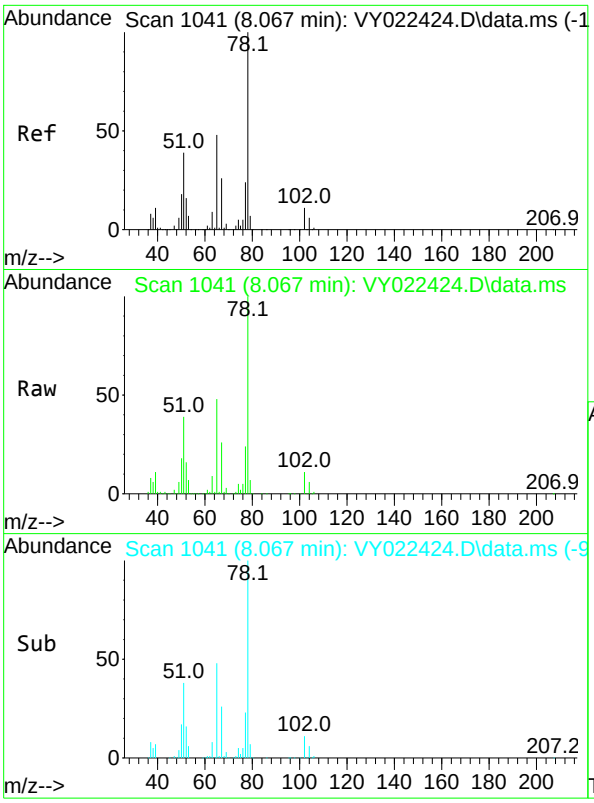


#32
1,1,1-Trichloroethane
Concen: 49.660 ug/l
RT: 7.622 min Scan# 968
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 97 Resp: 229531

Ion	Ratio	Lower	Upper
97	100		
99	64.1	51.3	76.9
61	46.6	37.3	55.9



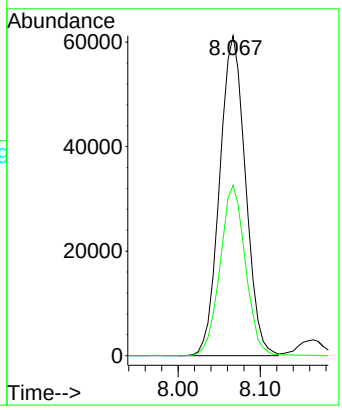


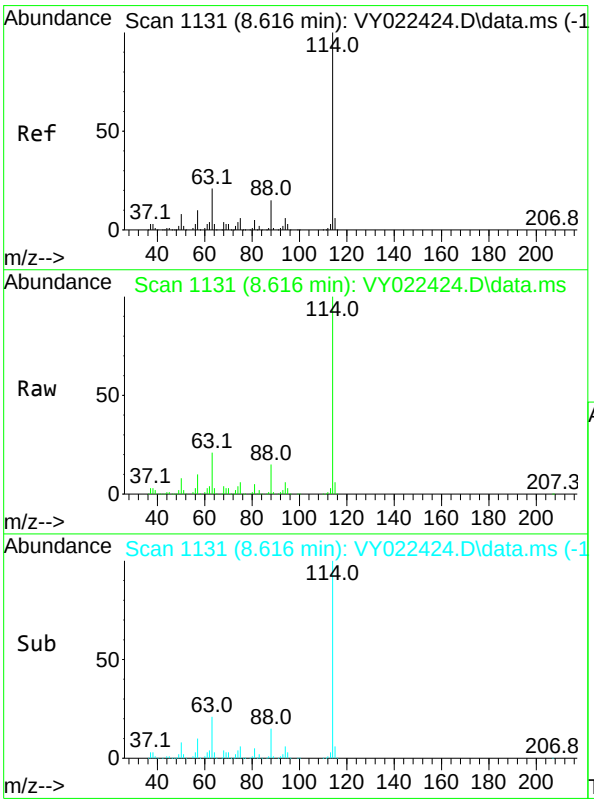
#33
1,2-Dichloroethane-d4
Concen: 50.486 ug/l
RT: 8.067 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 65 Resp: 133722

Ion	Ratio	Lower	Upper
65	100		
67	52.2	0.0	104.4

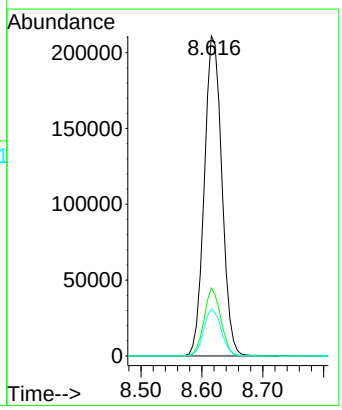


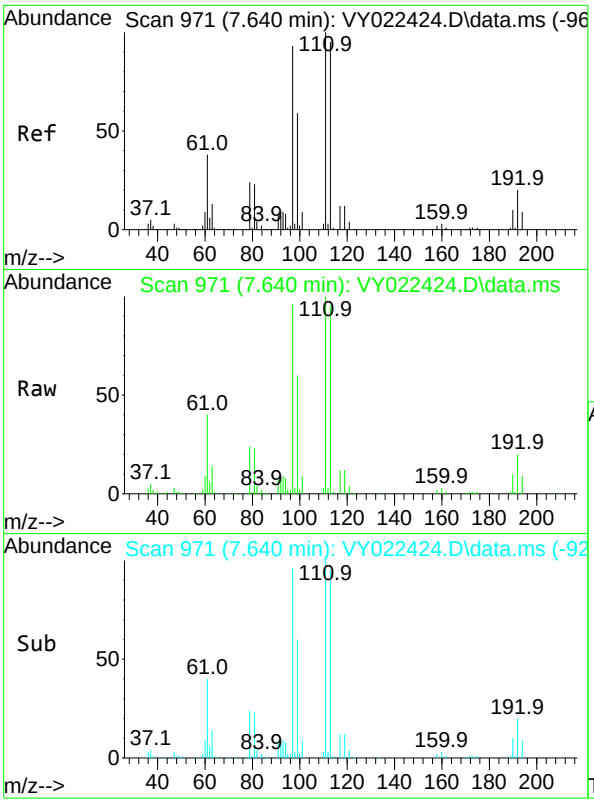


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion:114 Resp: 421648

Ion	Ratio	Lower	Upper
114	100		
63	21.3	0.0	42.6
88	14.7	0.0	29.4



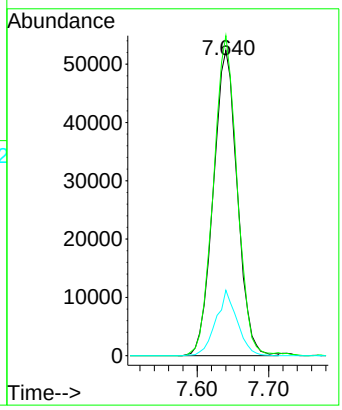


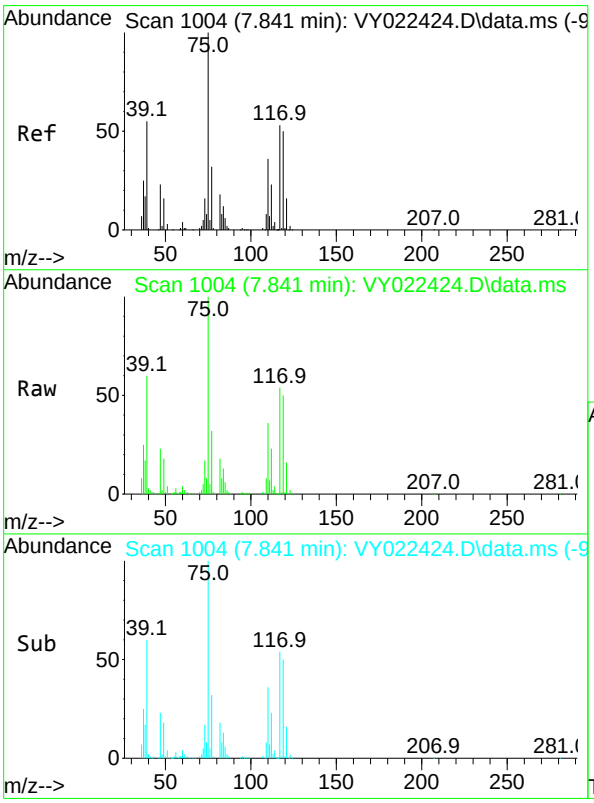
#35
Dibromofluoromethane
Concen: 49.438 ug/l
RT: 7.640 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion:113 Resp: 122077

Ion	Ratio	Lower	Upper
113	100		
111	103.0	82.4	123.6
192	19.0	15.2	22.8

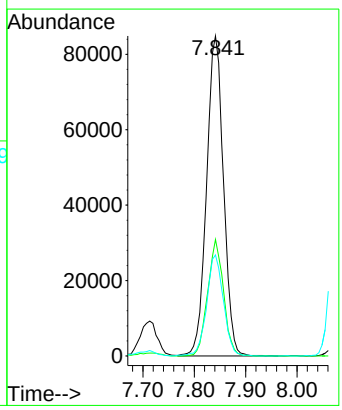


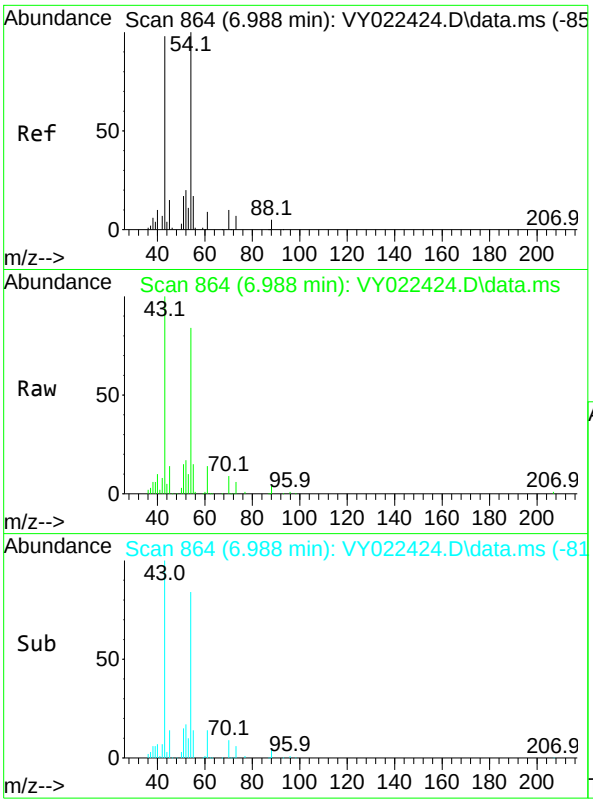


#36
1,1-Dichloropropene
Concen: 49.482 ug/l
RT: 7.841 min Scan# 1004
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 75 Resp: 193888

Ion	Ratio	Lower	Upper
75	100		
110	34.1	17.1	51.2
77	31.4	25.1	37.7



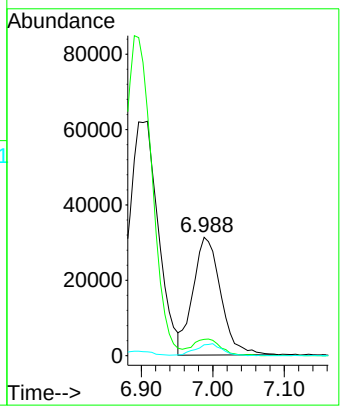


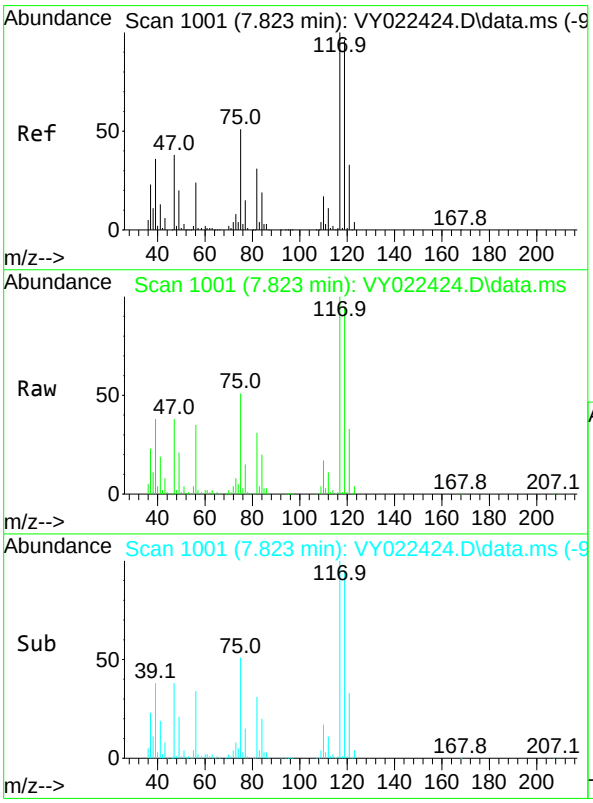
#37
Ethyl Acetate
Concen: 50.538 ug/l
RT: 6.988 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 84159

Ion	Ratio	Lower	Upper
43	100		
61	14.6	11.7	17.5
70	9.7	7.8	11.6

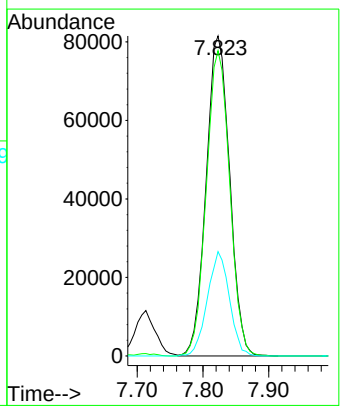


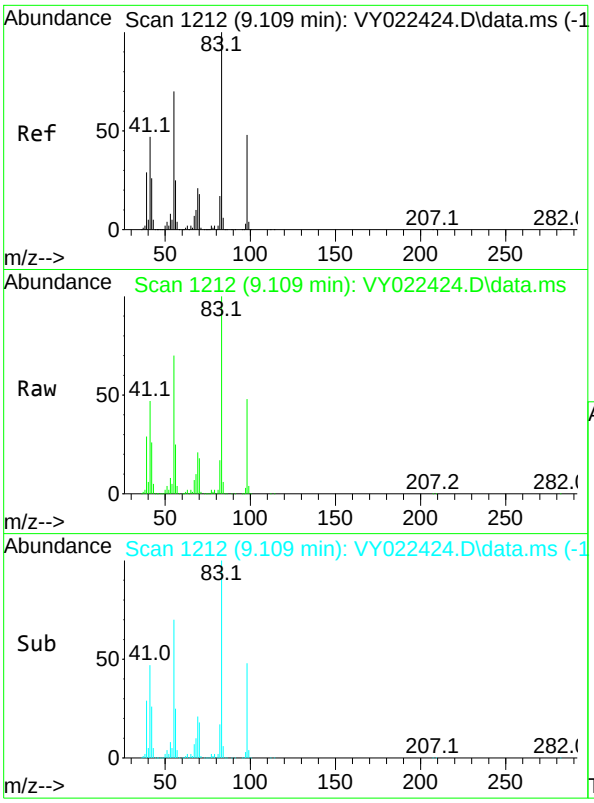


#38
Carbon Tetrachloride
Concen: 49.731 ug/l
RT: 7.823 min Scan# 1001
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion:117 Resp: 202994

Ion	Ratio	Lower	Upper
117	100		
119	95.4	76.3	114.5
121	32.6	26.1	39.1



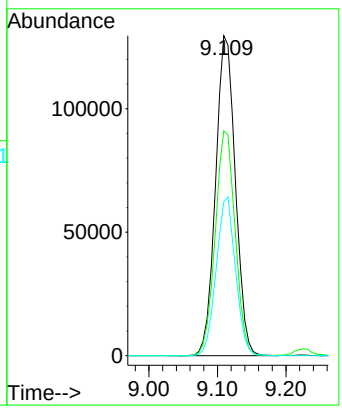


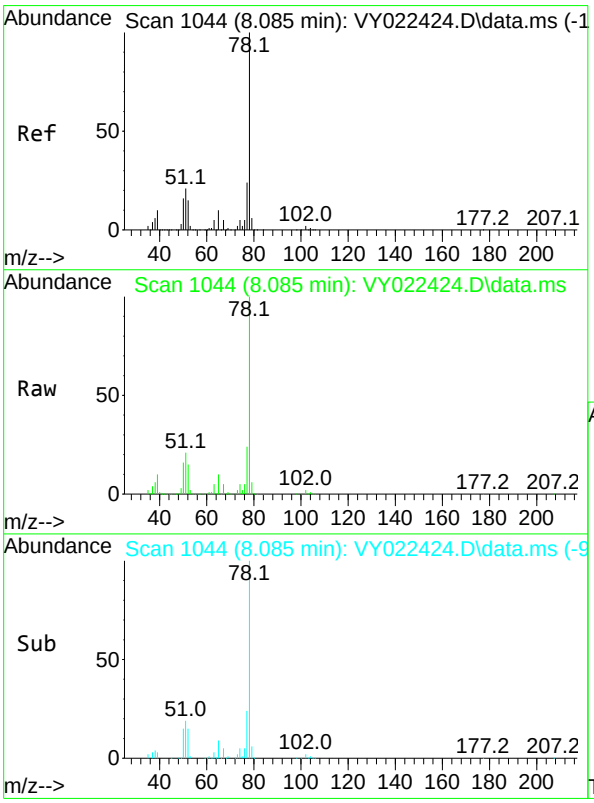
#39
Methylcyclohexane
Concen: 49.724 ug/l
RT: 9.109 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 83 Resp: 258994

Ion	Ratio	Lower	Upper
83	100		
55	70.2	56.2	84.2
98	48.0	38.4	57.6

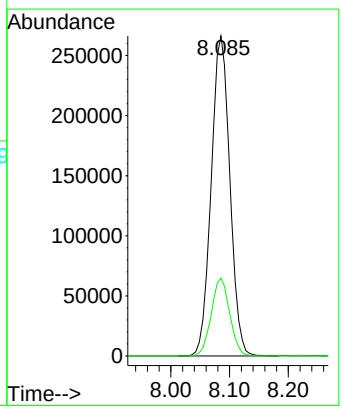


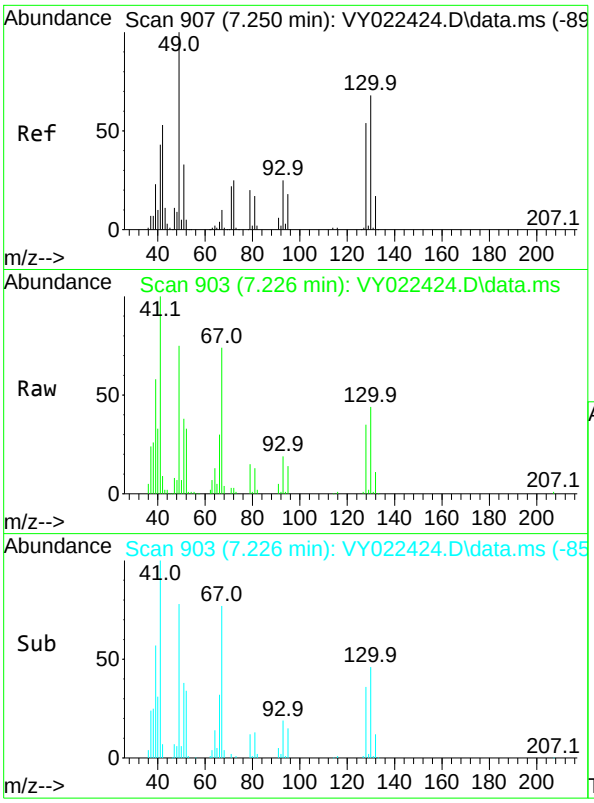


#40
Benzene
Concen: 50.308 ug/l
RT: 8.085 min Scan# 1044
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 78 Resp: 586562

Ion	Ratio	Lower	Upper
78	100		
77	24.3	19.4	29.2



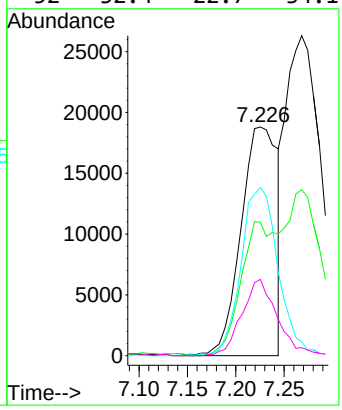


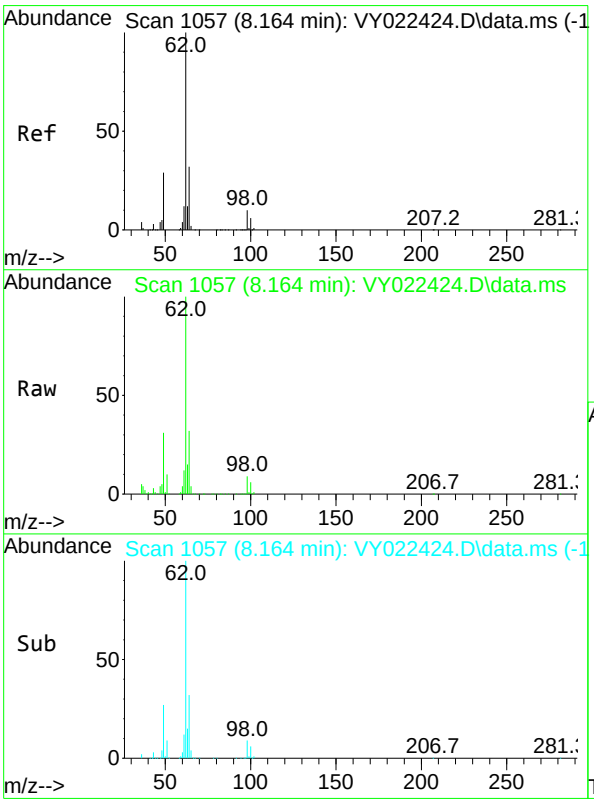
#41
Methacrylonitrile
Concen: 48.714 ug/l
RT: 7.226 min Scan# 9
Delta R.T. -0.024 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 41 Resp: 49236

Ion	Ratio	Lower	Upper
41	100		
39	57.5	40.4	60.6
67	75.4	53.0	79.4
52	32.4	22.7	34.1

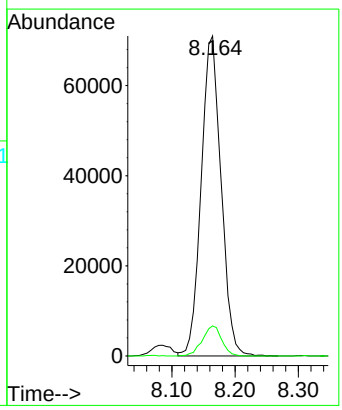


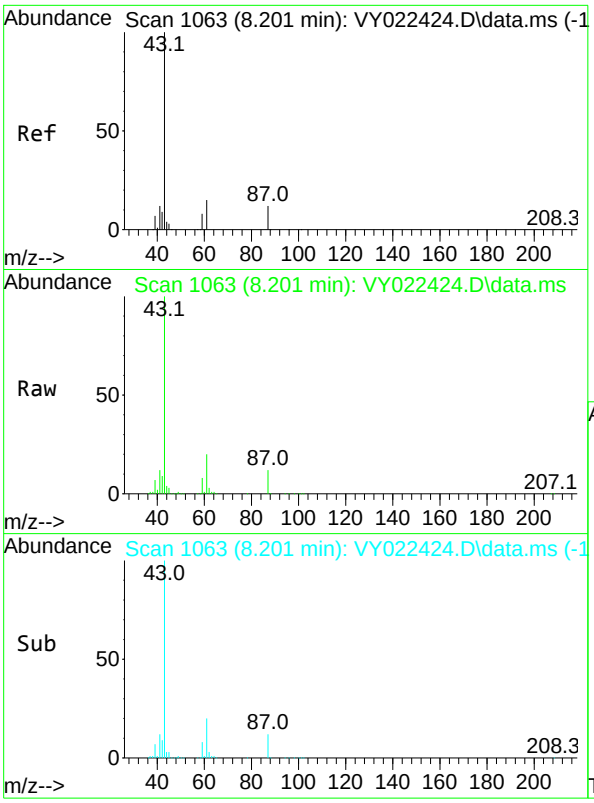


#42
1,2-Dichloroethane
Concen: 50.458 ug/l
RT: 8.164 min Scan# 1057
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 62 Resp: 155379

Ion	Ratio	Lower	Upper
62	100		
98	9.2	0.0	18.4



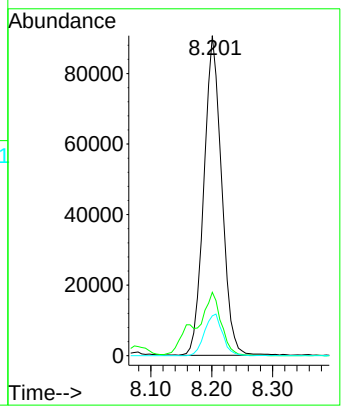


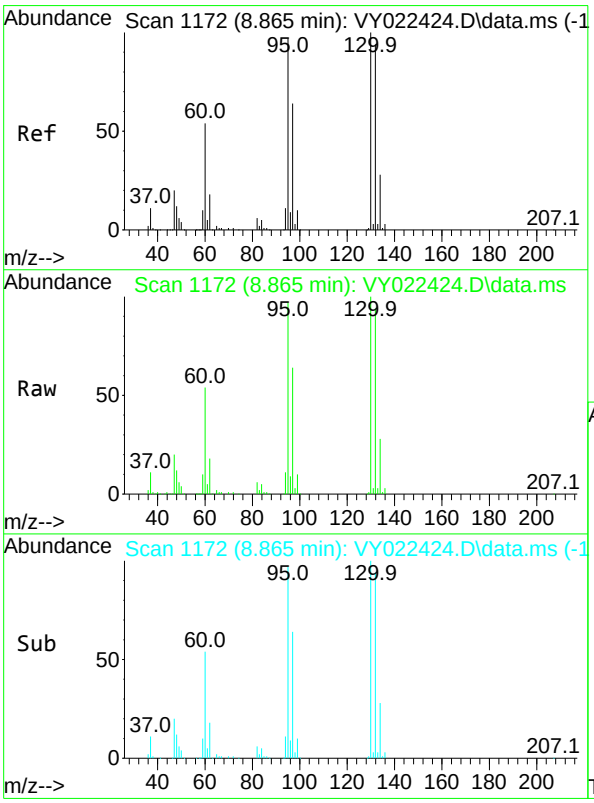
#43
Isopropyl Acetate
Concen: 50.467 ug/l
RT: 8.201 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 183642

Ion	Ratio	Lower	Upper
43	100		
61	19.2	15.4	23.0
87	13.2	10.6	15.8

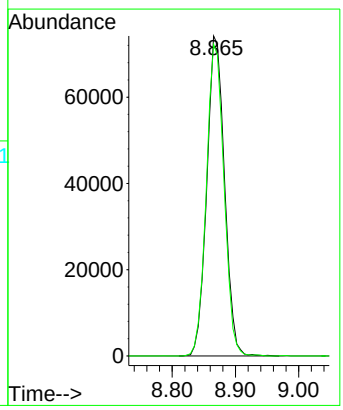


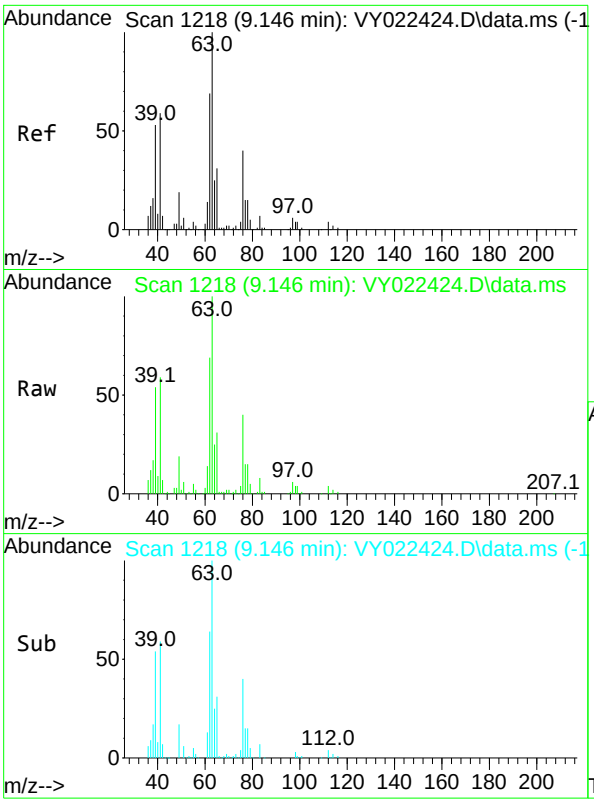


#44
Trichloroethene
Concen: 50.172 ug/l
RT: 8.865 min Scan# 1172
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion:130 Resp: 144611

Ion	Ratio	Lower	Upper
130	100		
95	97.4	0.0	194.8



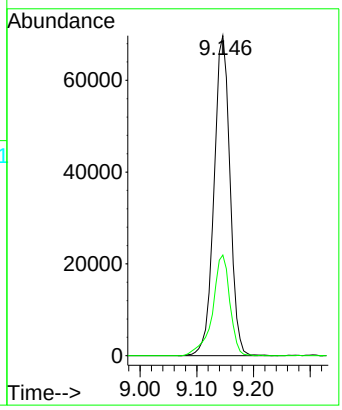


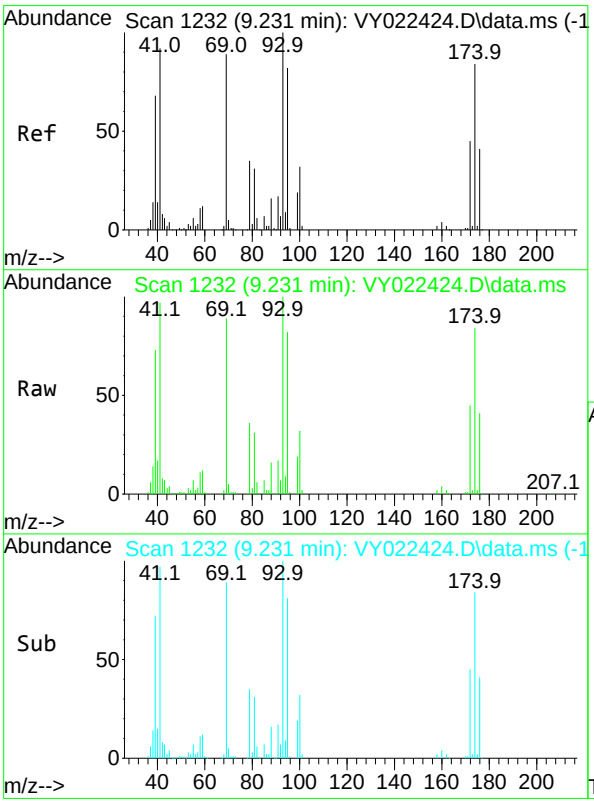
#45
1,2-Dichloropropane
Concen: 49.730 ug/l
RT: 9.146 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 63 Resp: 136232

Ion	Ratio	Lower	Upper
63	100		
65	31.4	25.1	37.7

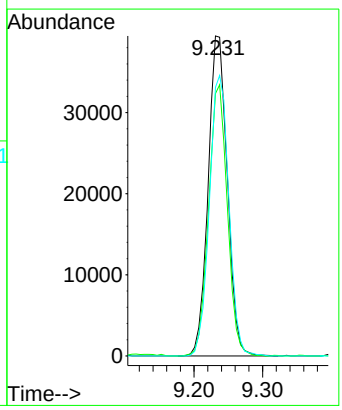


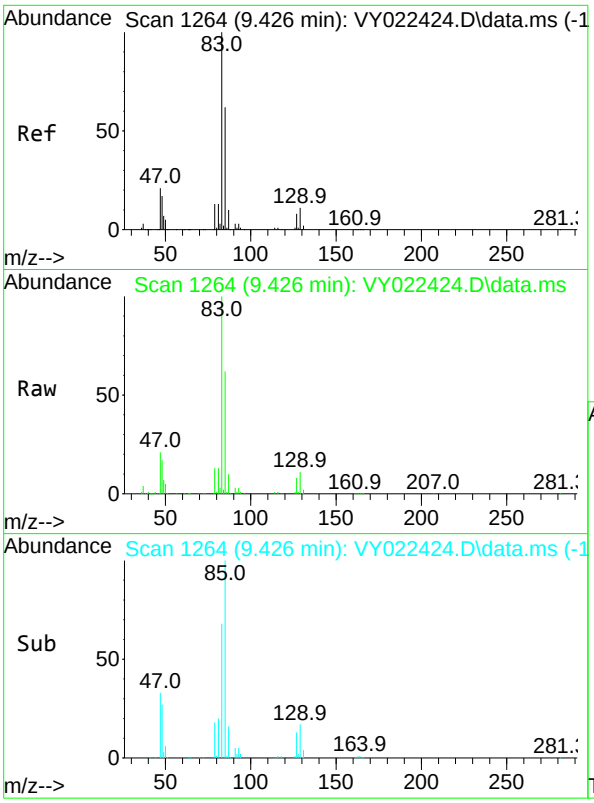


#46
Dibromomethane
Concen: 50.148 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 93 Resp: 76743

Ion	Ratio	Lower	Upper
93	100		
95	82.7	66.2	99.2
174	88.9	71.1	106.7



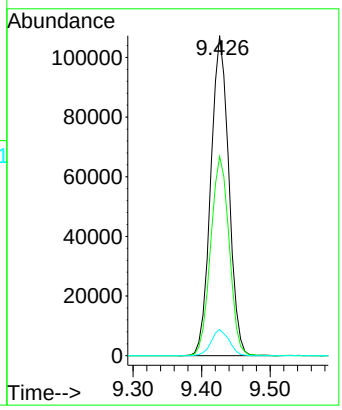


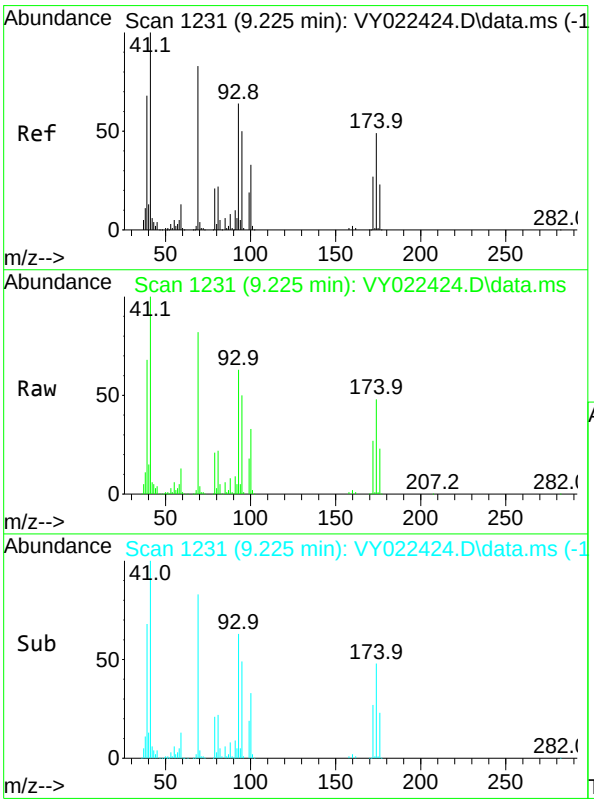
#47
Bromodichloromethane
Concen: 49.717 ug/l
RT: 9.426 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 83 Resp: 195650

Ion	Ratio	Lower	Upper
83	100		
85	62.2	49.8	74.6
127	8.2	6.6	9.8

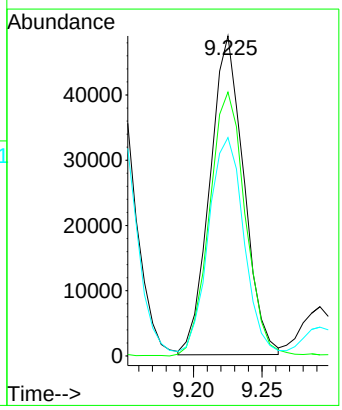


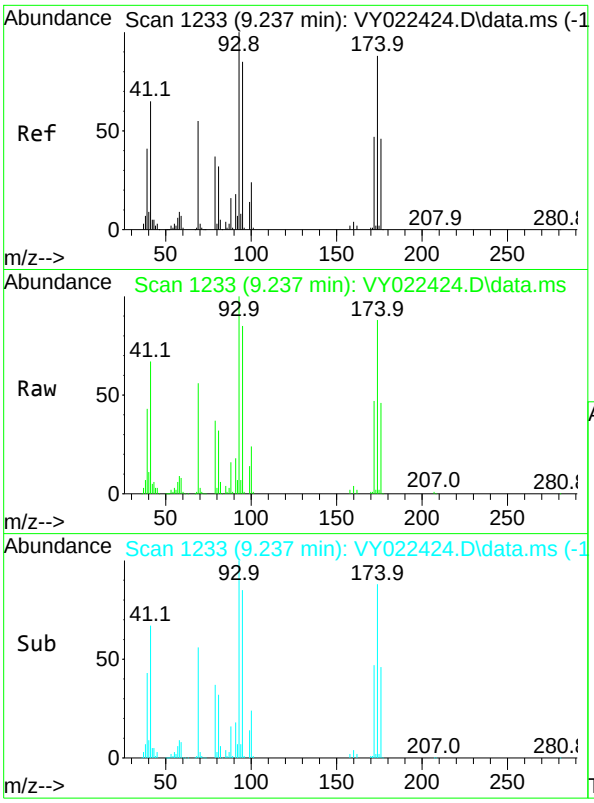


#48
Methyl methacrylate
Concen: 49.870 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 41 Resp: 84239

Ion	Ratio	Lower	Upper
41	100		
69	87.9	70.3	105.5
39	69.2	55.4	83.0



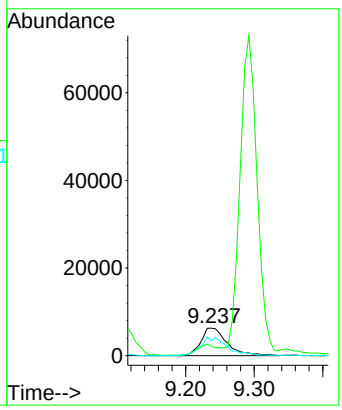


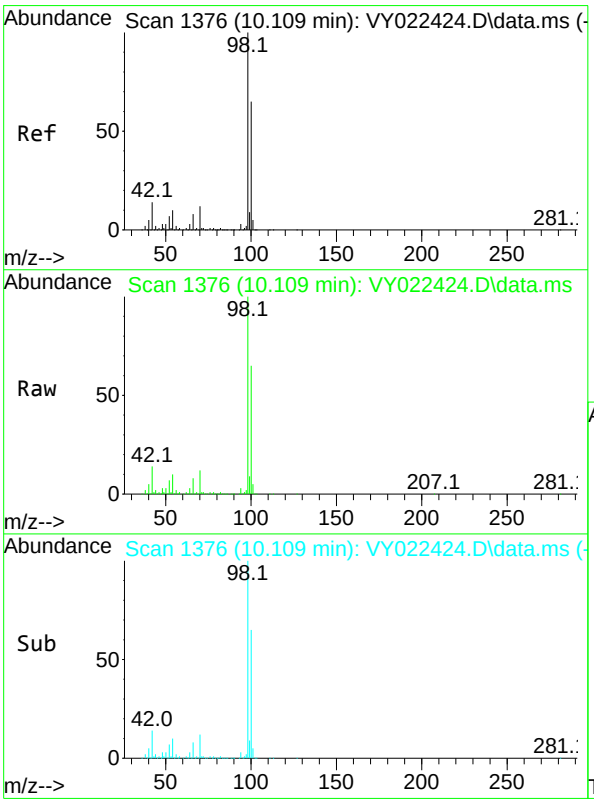
#49
1,4-Dioxane
Concen: 988.479 ug/l
RT: 9.237 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 88 Resp: 16708

Ion	Ratio	Lower	Upper
88	100		
43	33.6	26.9	40.3
58	69.7	55.8	83.6

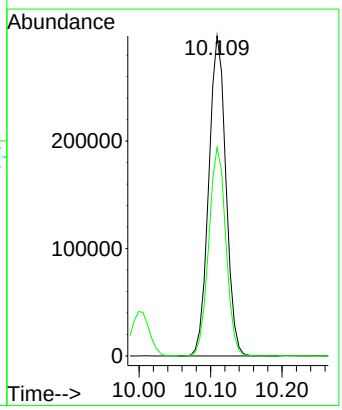


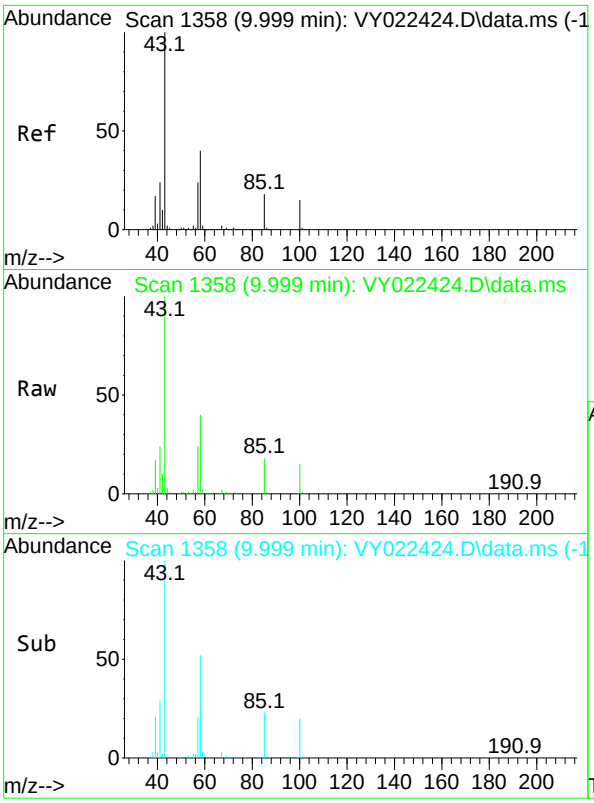


#50
Toluene-d8
Concen: 49.264 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 98 Resp: 495900

Ion	Ratio	Lower	Upper
98	100		
100	65.2	52.2	78.2



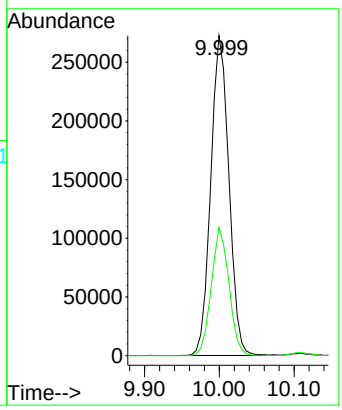


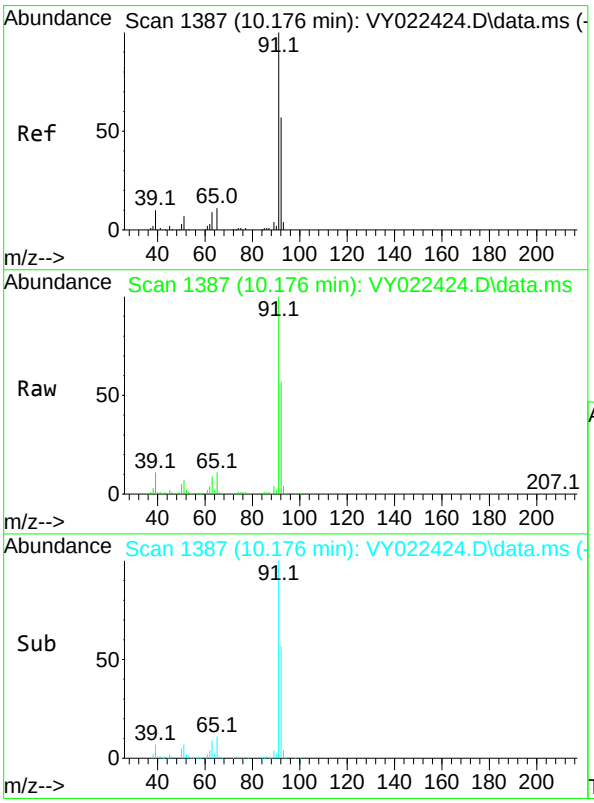
#51
4-Methyl-2-Pentanone
Concen: 256.225 ug/l
RT: 9.999 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 460034

Ion	Ratio	Lower	Upper
43	100		
58	39.0	31.2	46.8

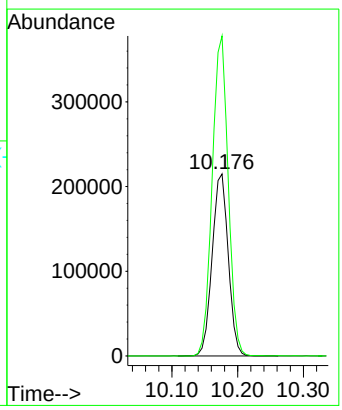


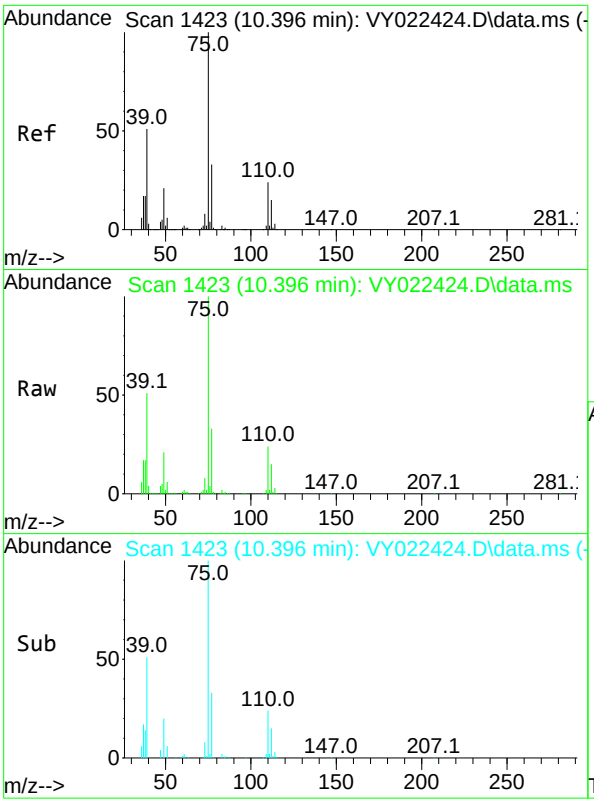


#52
Toluene
Concen: 50.235 ug/l
RT: 10.176 min Scan# 1387
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 92 Resp: 365833

Ion	Ratio	Lower	Upper
92	100		
91	174.7	139.8	209.6



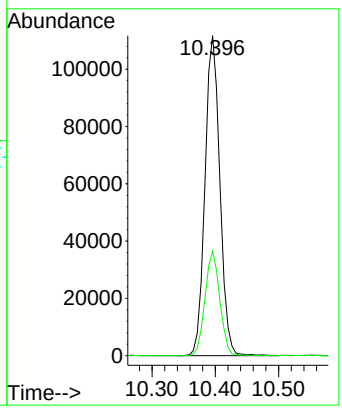


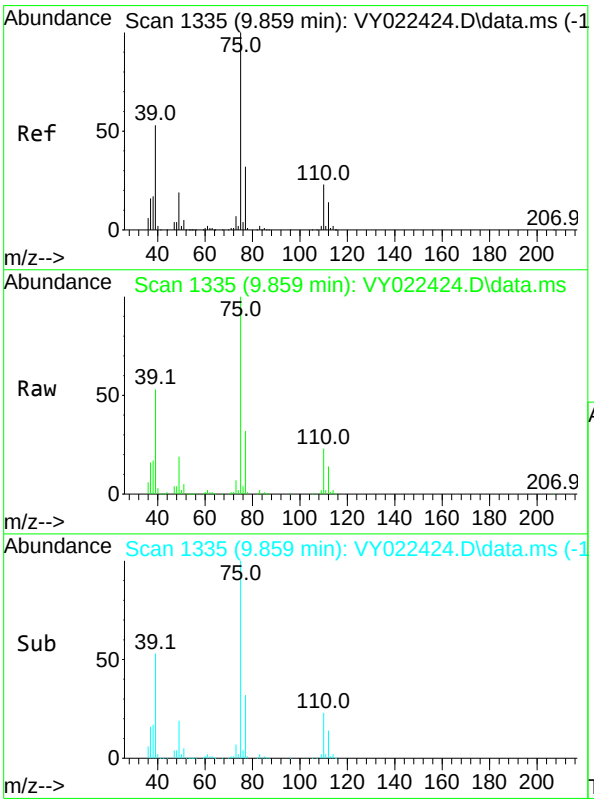
#53
t-1,3-Dichloropropene
Concen: 49.875 ug/l
RT: 10.396 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 75 Resp: 182819

Ion	Ratio	Lower	Upper
75	100		
77	32.7	26.2	39.2

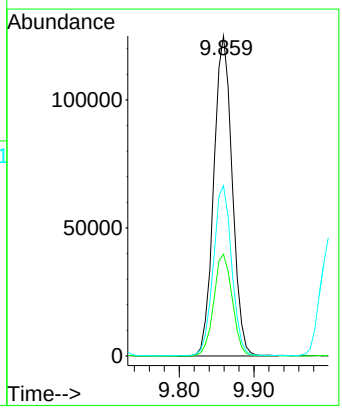


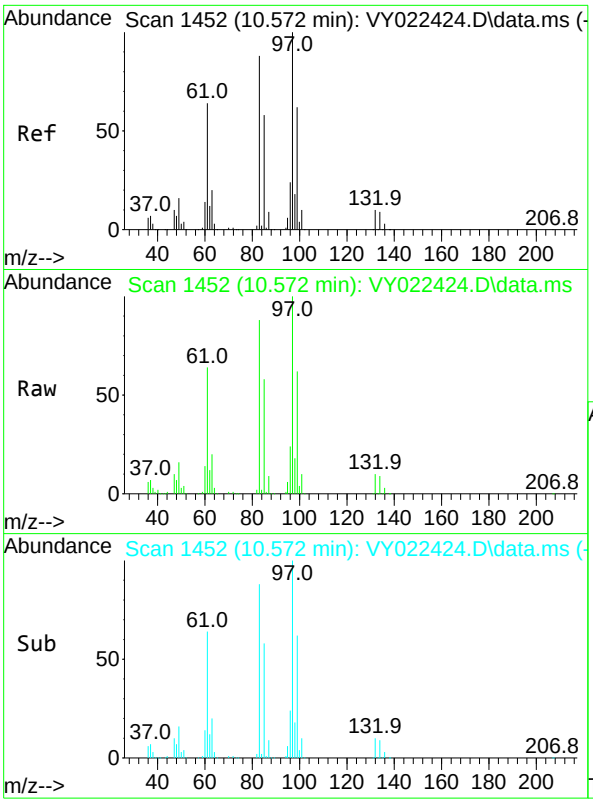


#54
cis-1,3-Dichloropropene
Concen: 49.683 ug/l
RT: 9.859 min Scan# 1335
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 75 Resp: 213990

Ion	Ratio	Lower	Upper
75	100		
77	31.8	25.4	38.2
39	53.1	42.5	63.7



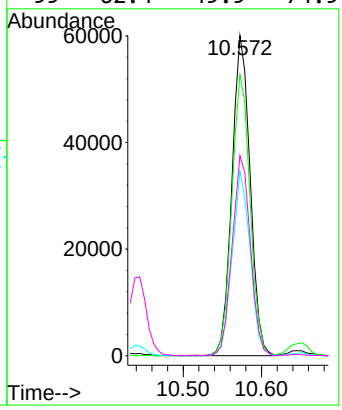


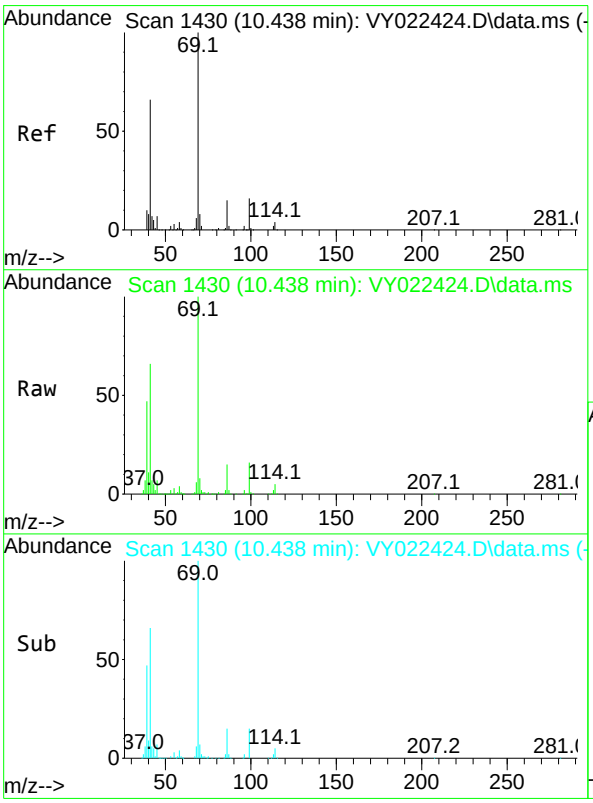
#55
1,1,2-Trichloroethane
Concen: 50.011 ug/l
RT: 10.572 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 97 Resp: 96763

Ion	Ratio	Lower	Upper
97	100		
83	87.8	70.2	105.4
85	57.6	46.1	69.1
99	62.4	49.9	74.9

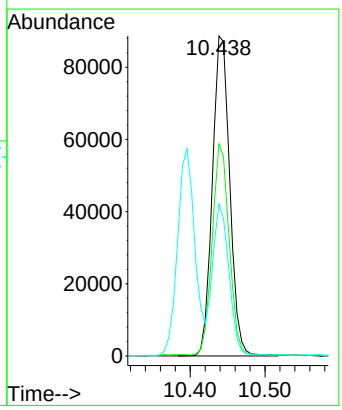


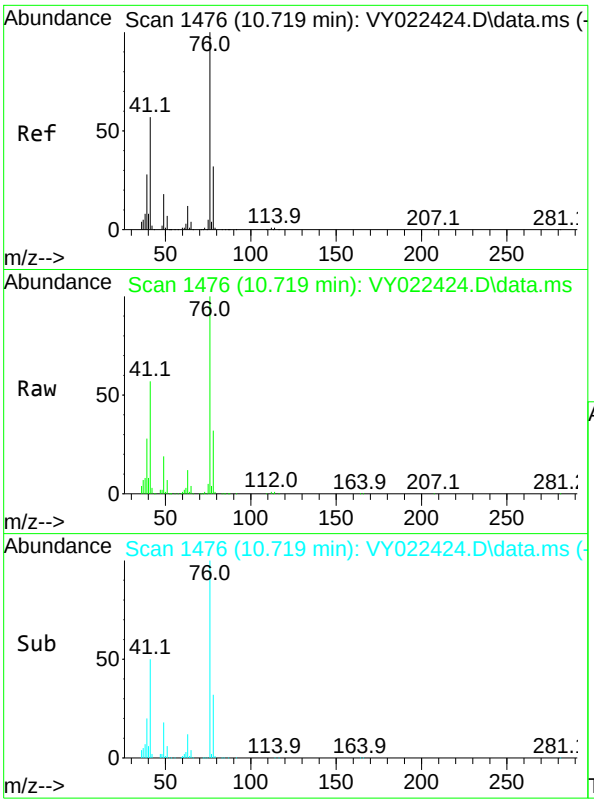


#56
Ethyl methacrylate
Concen: 51.650 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 69 Resp: 143409

Ion	Ratio	Lower	Upper
69	100		
41	64.0	51.2	76.8
39	44.0	35.2	52.8



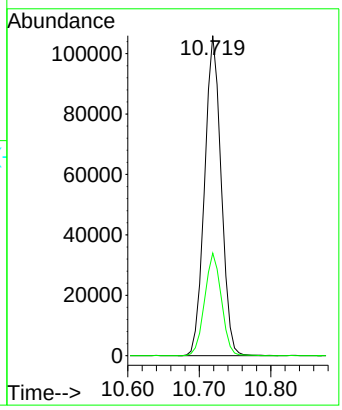


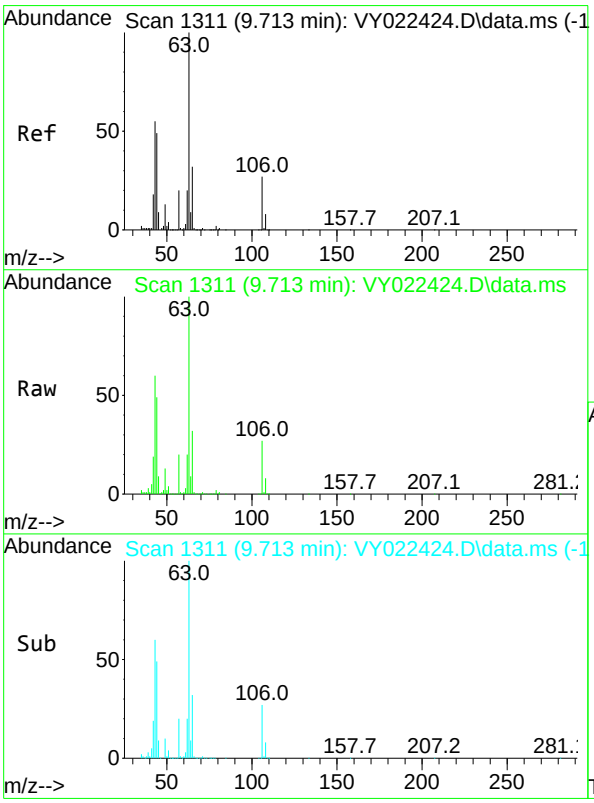
#57
1,3-Dichloropropane
Concen: 50.093 ug/l
RT: 10.719 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 76 Resp: 170799

Ion	Ratio	Lower	Upper
76	100		
78	32.3	25.8	38.8

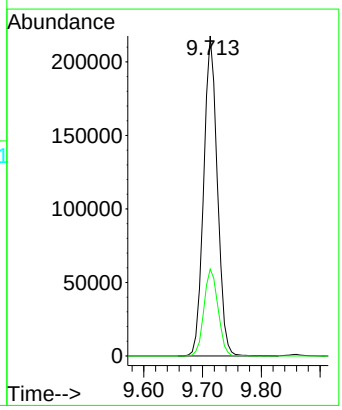


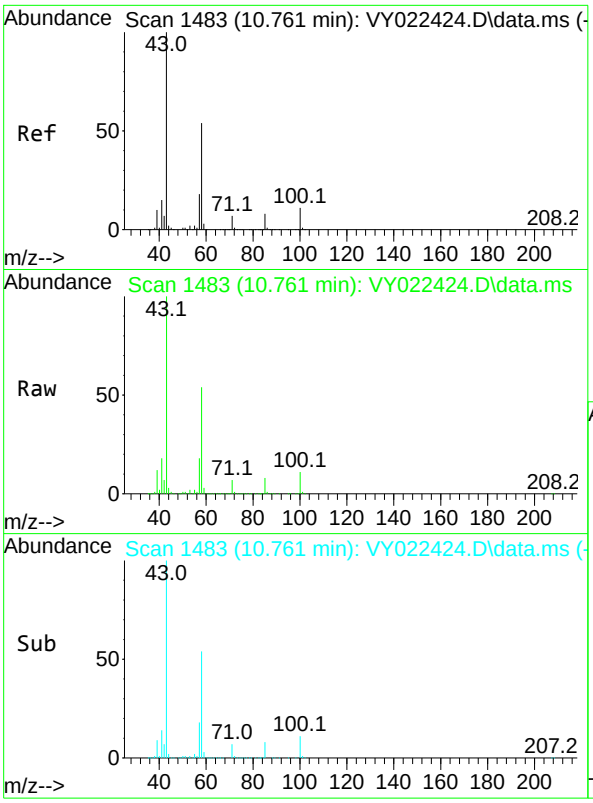


#58
2-Chloroethyl Vinyl ether
Concen: 254.955 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 63 Resp: 352804

Ion	Ratio	Lower	Upper
63	100		
106	27.7	22.2	33.2



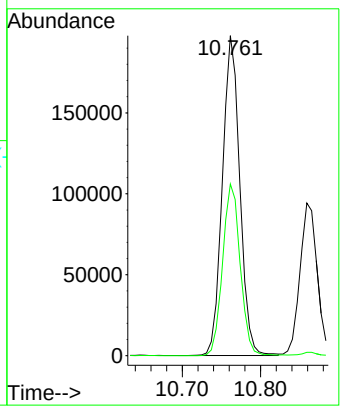


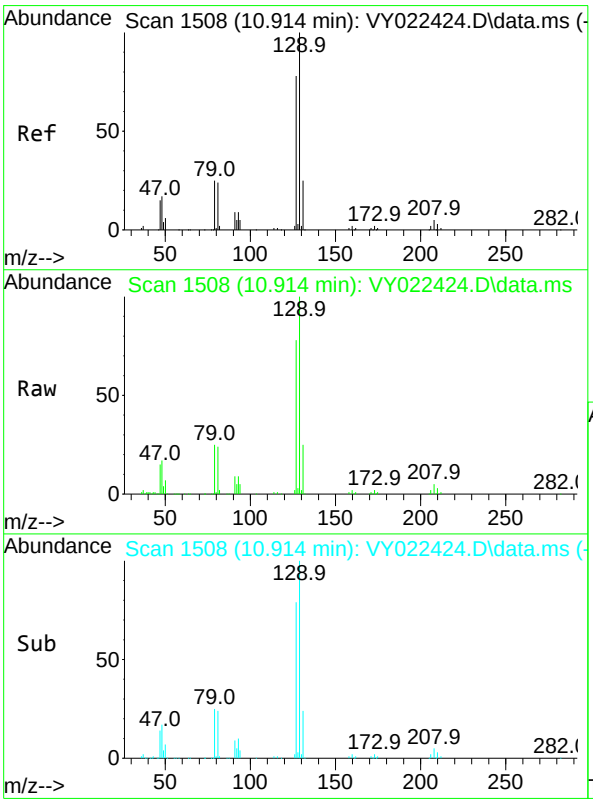
#59
2-Hexanone
Concen: 260.045 ug/l
RT: 10.761 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 305977

Ion	Ratio	Lower	Upper
43	100		
58	54.1	27.1	81.2

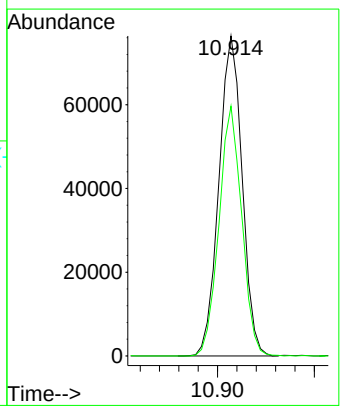


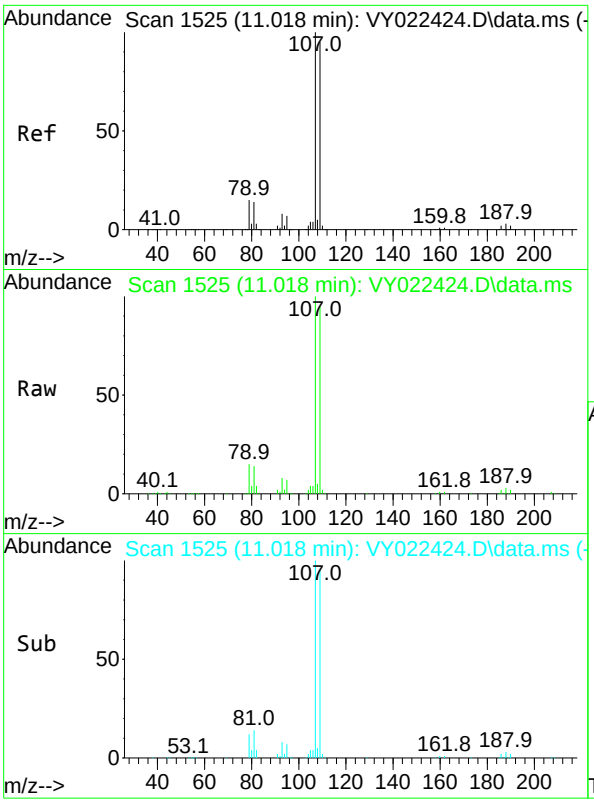


#60
Dibromochloromethane
Concen: 51.479 ug/l
RT: 10.914 min Scan# 1508
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion:129 Resp: 127232

Ion	Ratio	Lower	Upper
129	100		
127	76.5	38.3	114.8



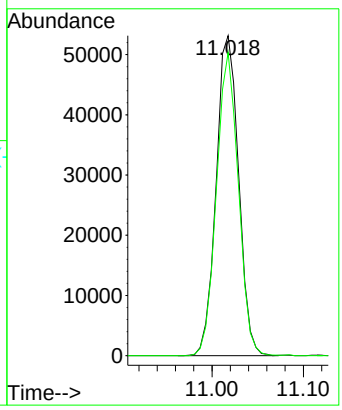


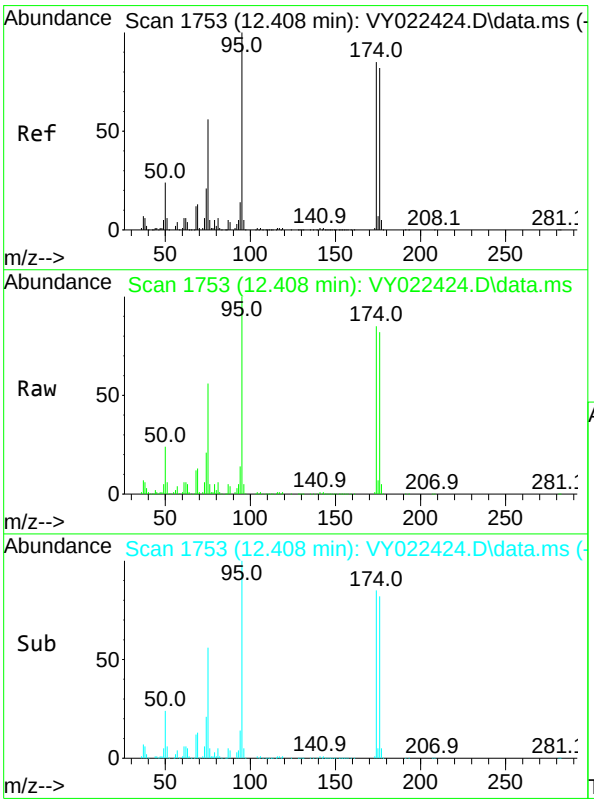
#61
1,2-Dibromoethane
Concen: 51.221 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion:107 Resp: 90642

Ion	Ratio	Lower	Upper
107	100		
109	92.5	74.0	111.0

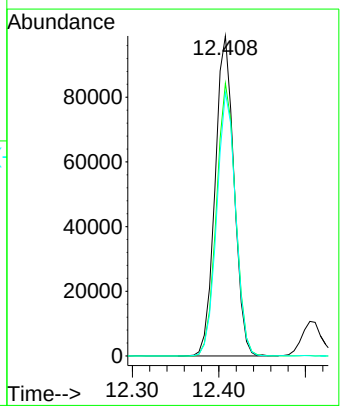


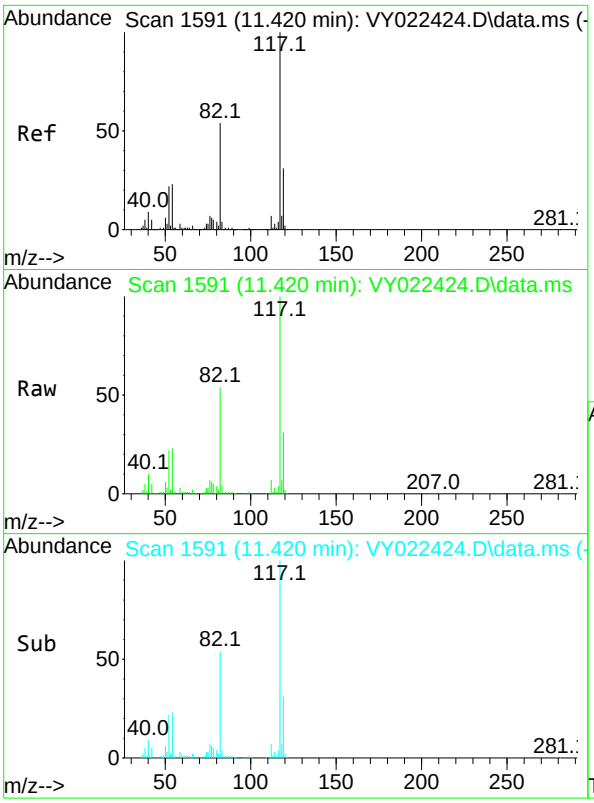


#62
4-Bromofluorobenzene
Concen: 49.160 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 95 Resp: 149686

Ion	Ratio	Lower	Upper
95	100		
174	85.8	0.0	171.6
176	82.3	0.0	164.6



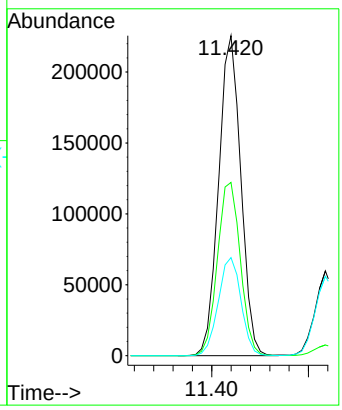


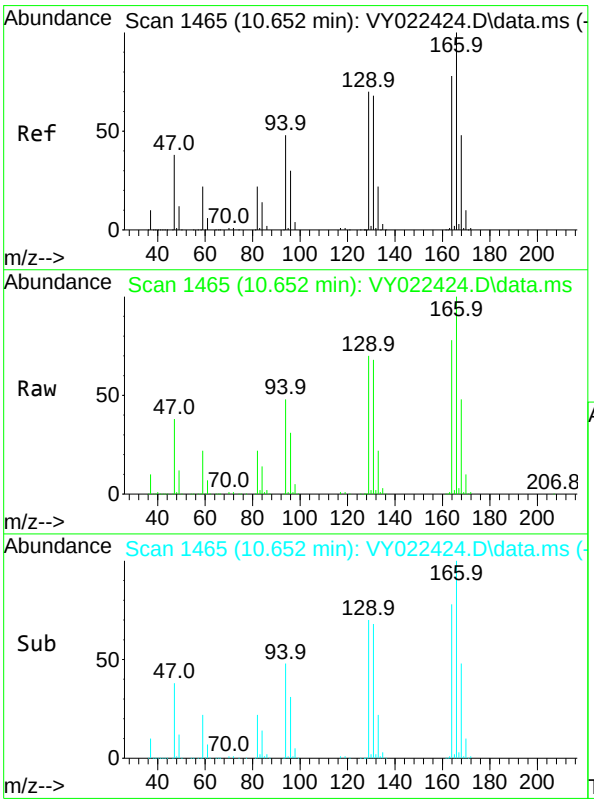
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion:117 Resp: 359387

Ion	Ratio	Lower	Upper
117	100		
82	54.1	43.3	64.9
119	30.6	24.5	36.7

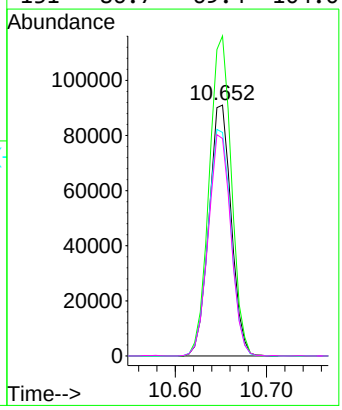


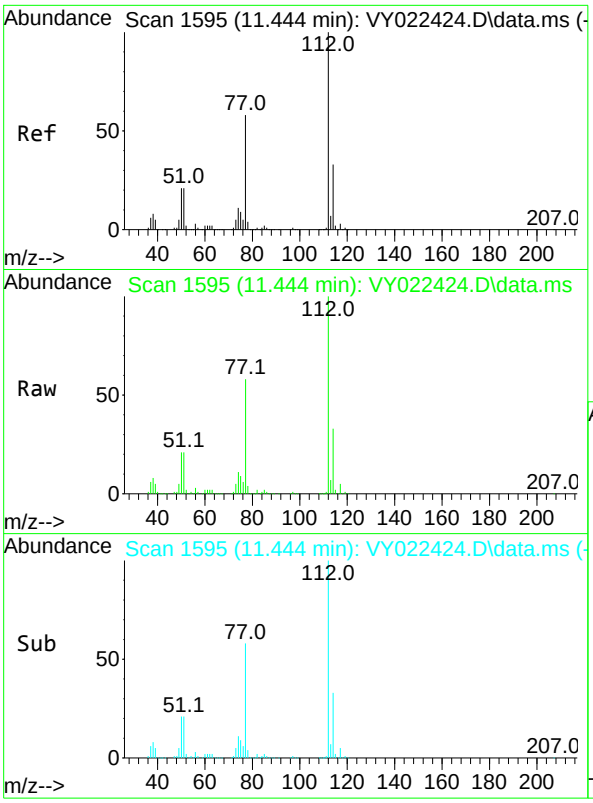


#64
Tetrachloroethene
Concen: 50.371 ug/l
RT: 10.652 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion:164 Resp: 154172

Ion	Ratio	Lower	Upper
164	100		
166	127.5	102.0	153.0
129	89.1	71.3	106.9
131	86.7	69.4	104.0



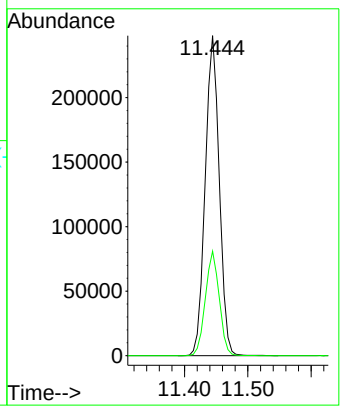


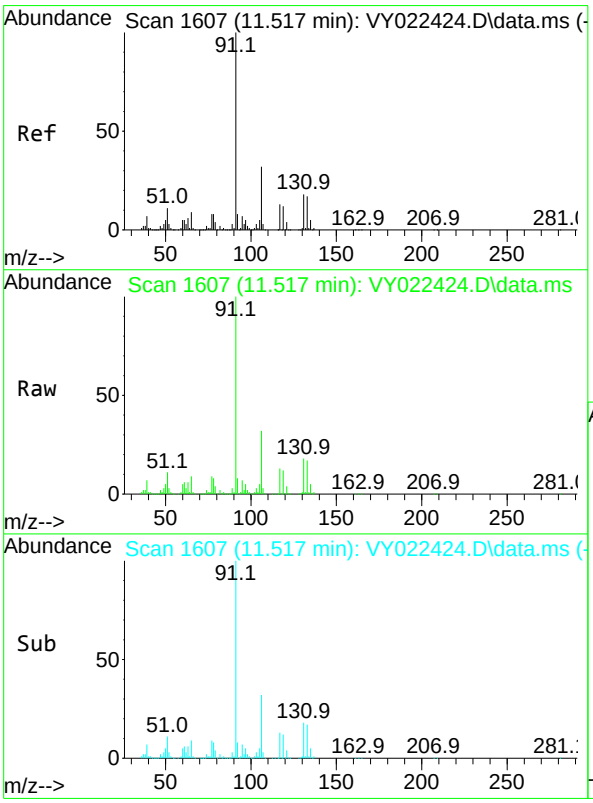
#65
Chlorobenzene
Concen: 50.045 ug/l
RT: 11.444 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion:112 Resp: 383505

Ion	Ratio	Lower	Upper
112	100		
114	32.6	26.1	39.1

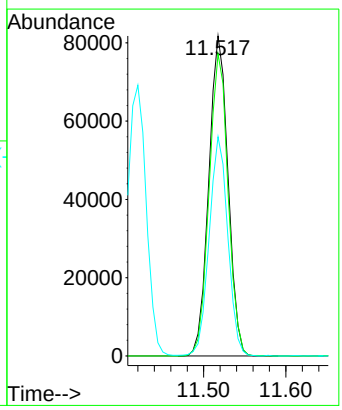


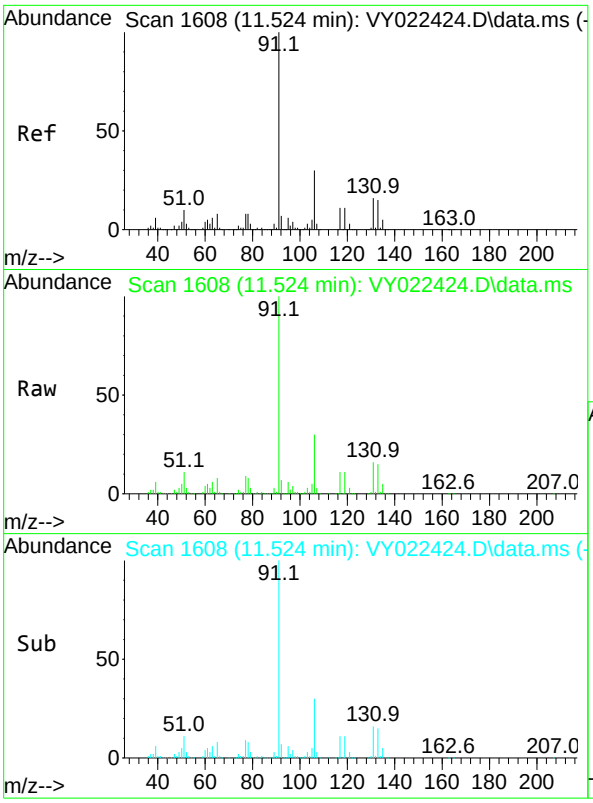


#66
1,1,1,2-Tetrachloroethane
Concen: 51.108 ug/l
RT: 11.517 min Scan# 1607
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion:131 Resp: 132697

Ion	Ratio	Lower	Upper
131	100		
133	93.2	46.6	139.8
119	66.5	33.3	99.8



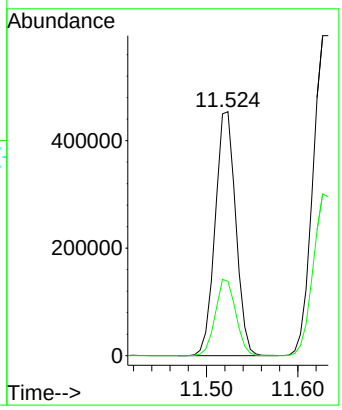


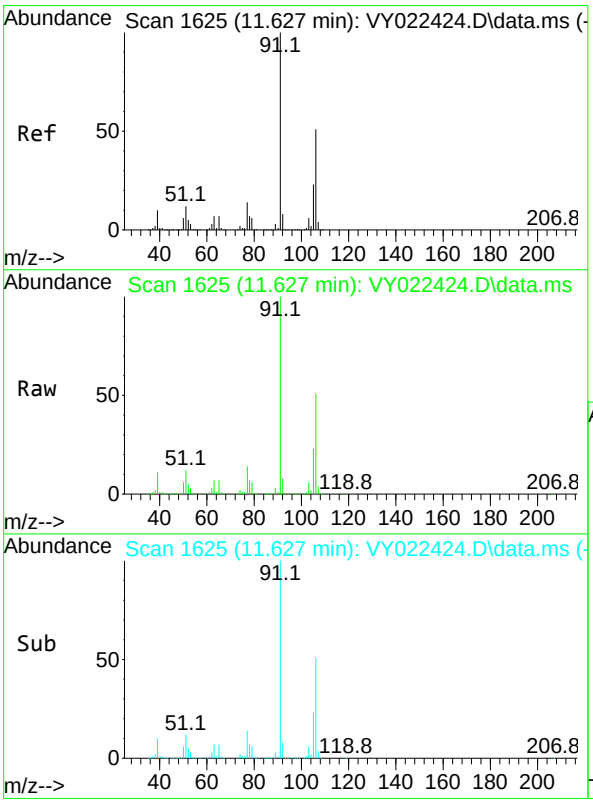
#67
Ethyl Benzene
Concen: 50.007 ug/l
RT: 11.524 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 91 Resp: 711551

Ion	Ratio	Lower	Upper
91	100		
106	30.5	24.4	36.6

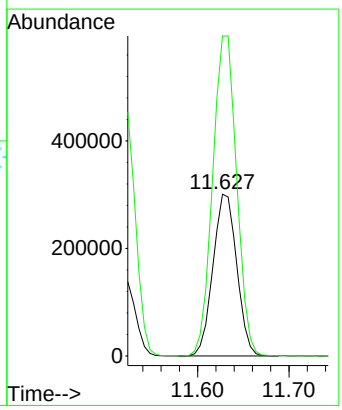


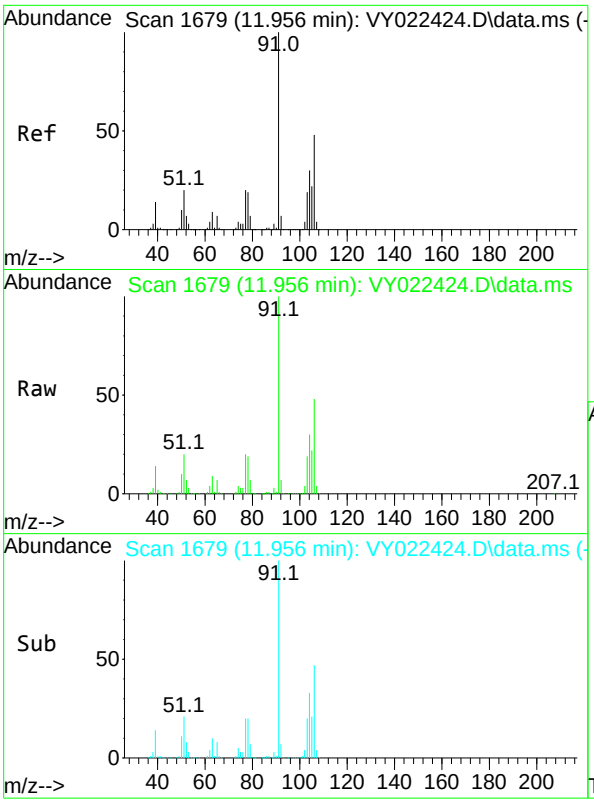


#68
m/p-Xylenes
Concen: 100.776 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion:106 Resp: 543665

Ion	Ratio	Lower	Upper
106	100		
91	199.8	159.8	239.8



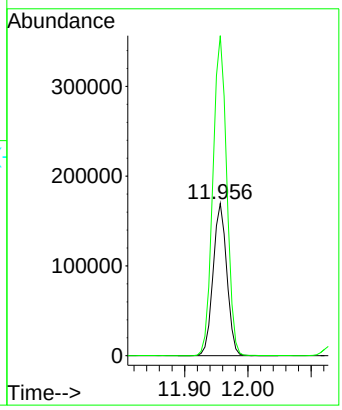


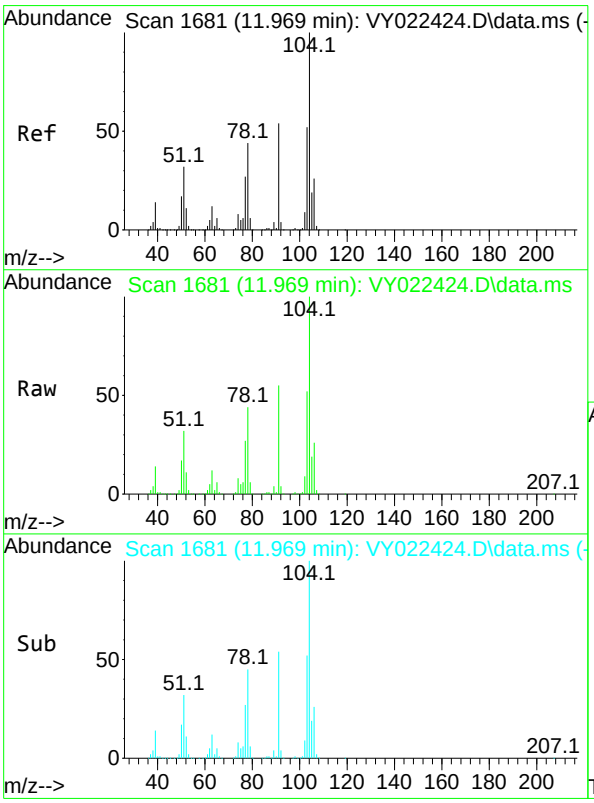
#69
o-Xylene
Concen: 50.270 ug/l
RT: 11.956 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion:106 Resp: 254880

Ion	Ratio	Lower	Upper
106	100		
91	212.6	106.3	318.9

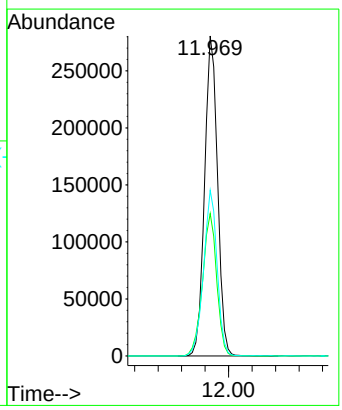


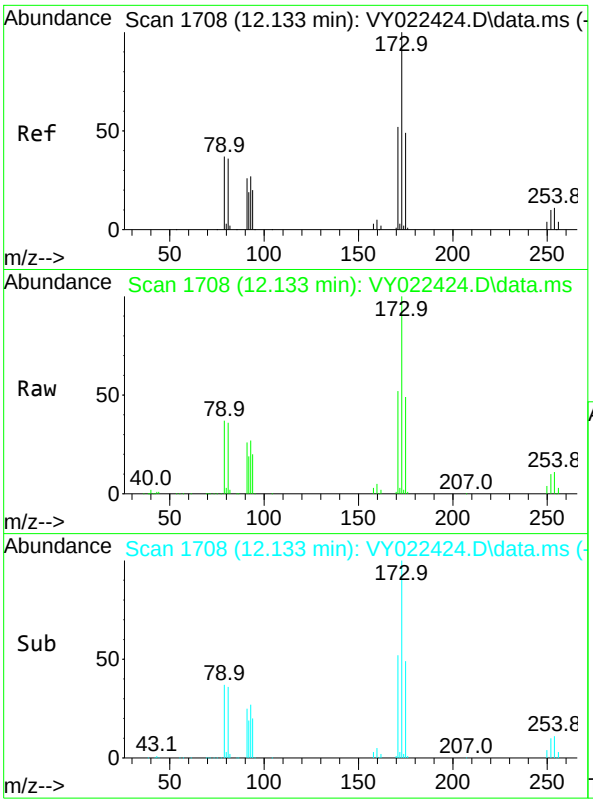


#70
Styrene
Concen: 50.969 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion:104 Resp: 430304

Ion	Ratio	Lower	Upper
104	100		
78	48.5	38.8	58.2
103	54.3	43.4	65.2



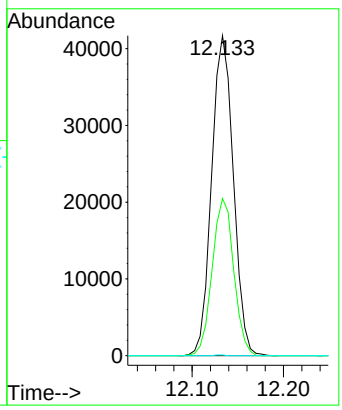


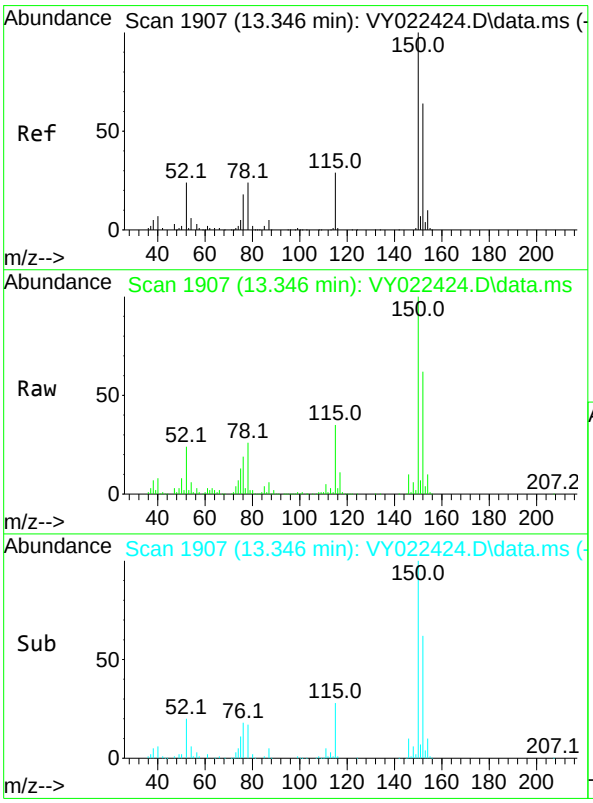
#71
Bromoform
Concen: 50.626 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion:173 Resp: 68851

Ion	Ratio	Lower	Upper
173	100		
175	48.7	24.3	73.0
254	0.1	0.1	0.1

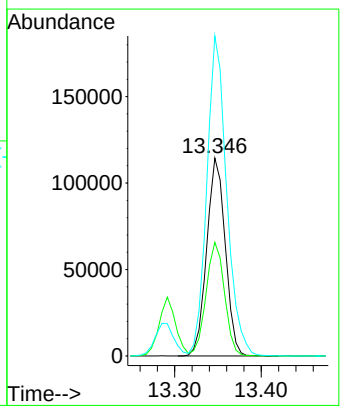


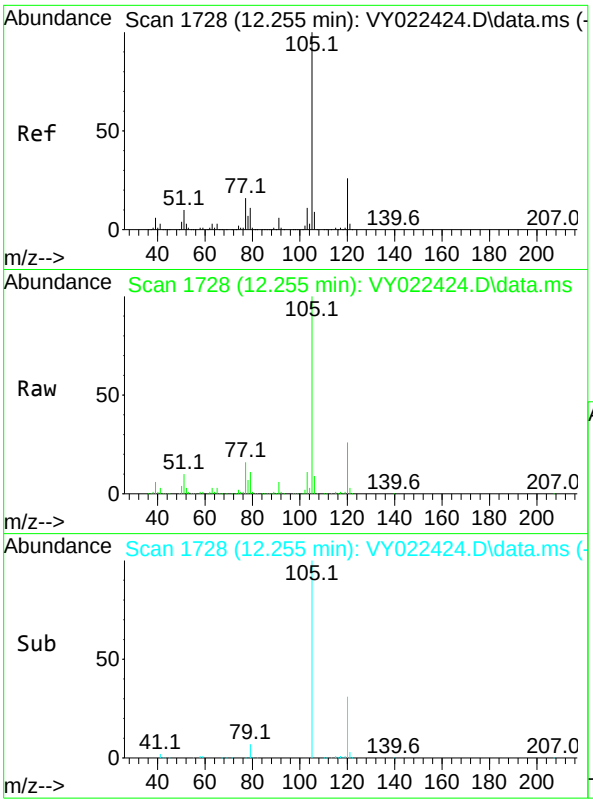


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion:152 Resp: 170568

Ion	Ratio	Lower	Upper
152	100		
115	56.9	28.4	85.3
150	172.9	0.0	345.8



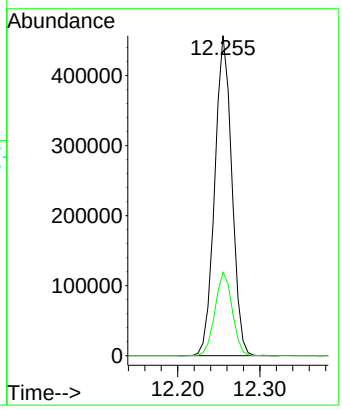


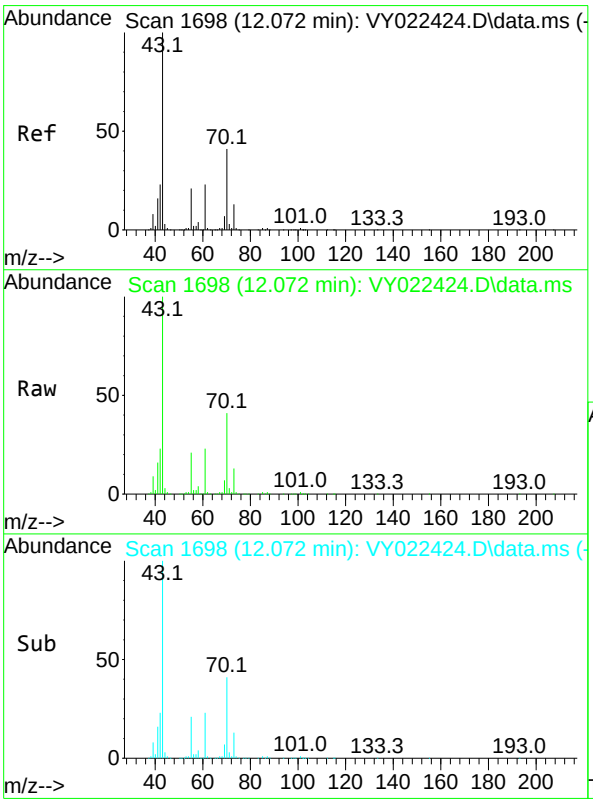
#73
Isopropylbenzene
Concen: 49.183 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion:105 Resp: 660245

Ion	Ratio	Lower	Upper
105	100		
120	26.3	13.2	39.5

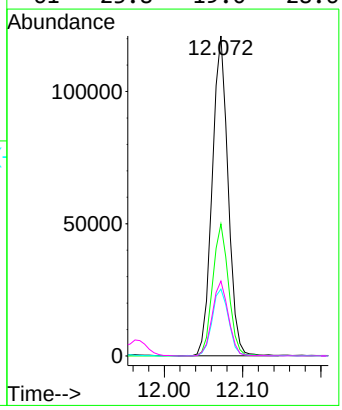


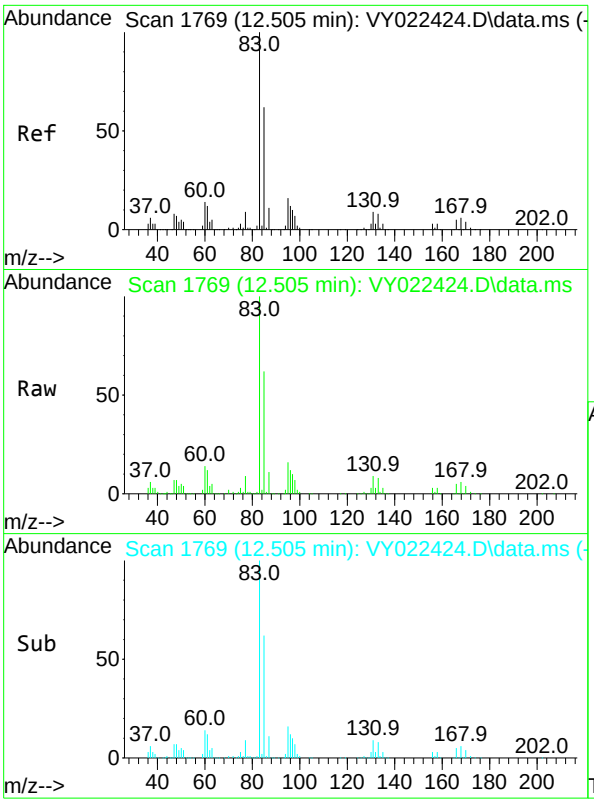


#74
N-amyl acetate
Concen: 51.919 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 43 Resp: 170547

Ion	Ratio	Lower	Upper
43	100		
70	41.2	33.0	49.4
55	21.9	17.5	26.3
61	23.8	19.0	28.6



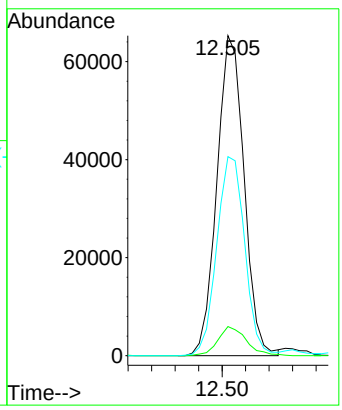


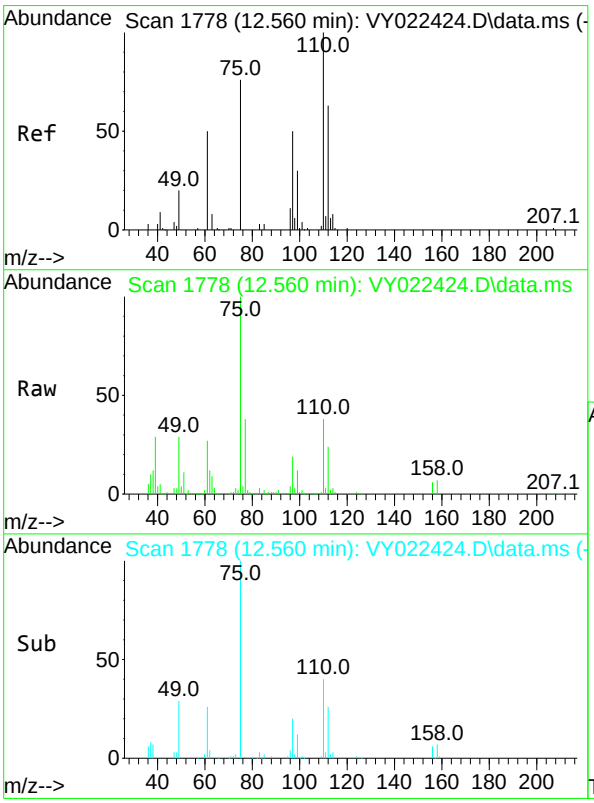
#75
1,1,2,2-Tetrachloroethane
Concen: 49.575 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 83 Resp: 104852

Ion	Ratio	Lower	Upper
83	100		
131	9.6	4.8	14.4
85	64.1	32.0	96.2

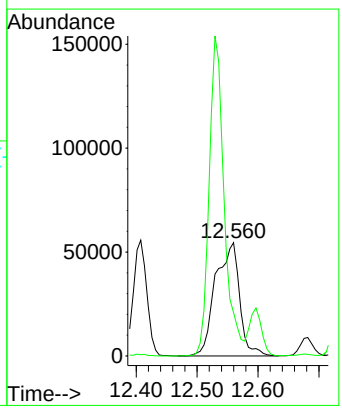


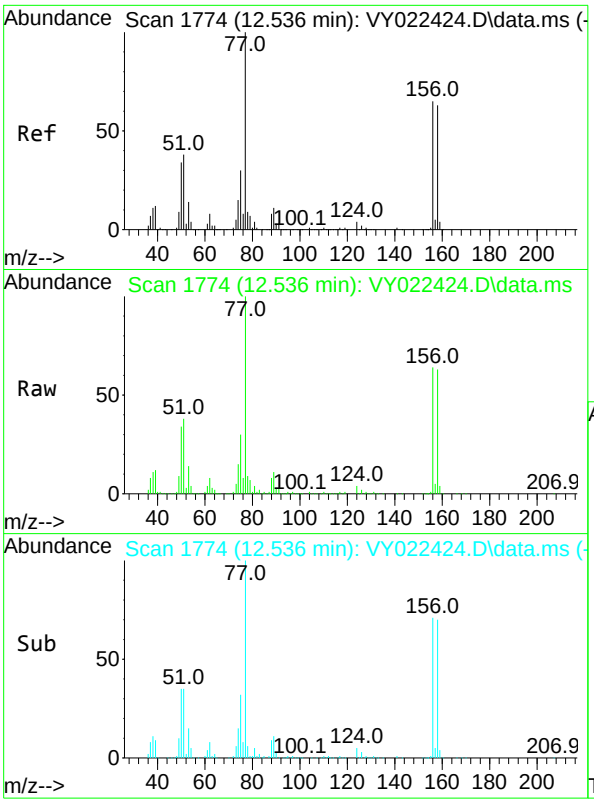


#76
1,2,3-Trichloropropane
Concen: 87.554 ug/l
RT: 12.560 min Scan# 1778
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 75 Resp: 149588

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0



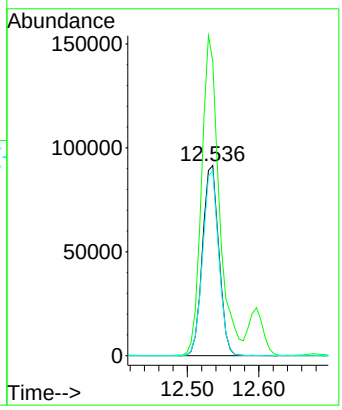


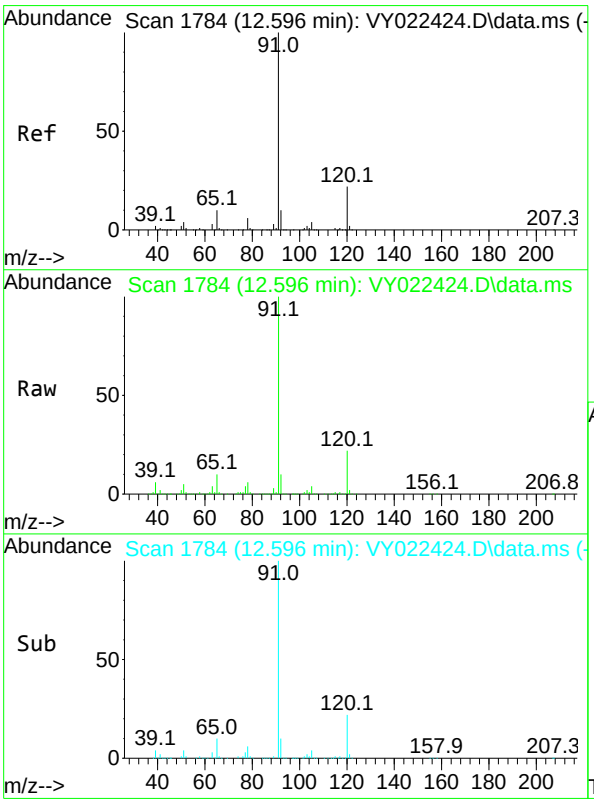
#77
Bromobenzene
Concen: 50.230 ug/l
RT: 12.536 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion:156 Resp: 145109

Ion	Ratio	Lower	Upper
156	100		
77	182.8	91.4	274.2
158	96.2	48.1	144.3

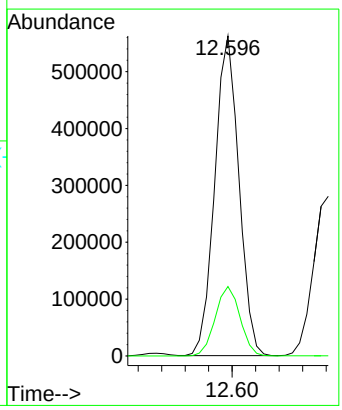


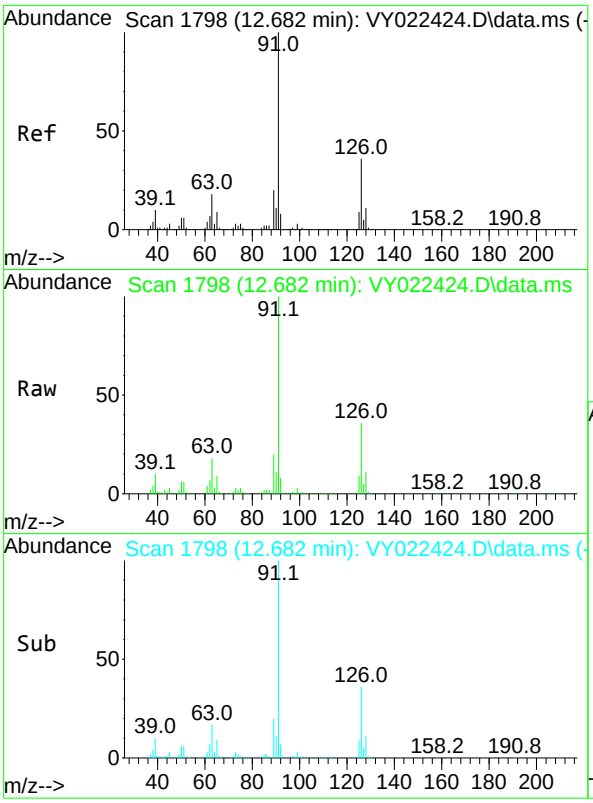


#78
n-propylbenzene
Concen: 49.859 ug/l
RT: 12.596 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 91 Resp: 803233

Ion	Ratio	Lower	Upper
91	100		
120	22.3	11.2	33.5



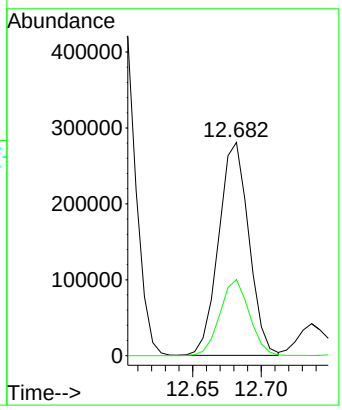


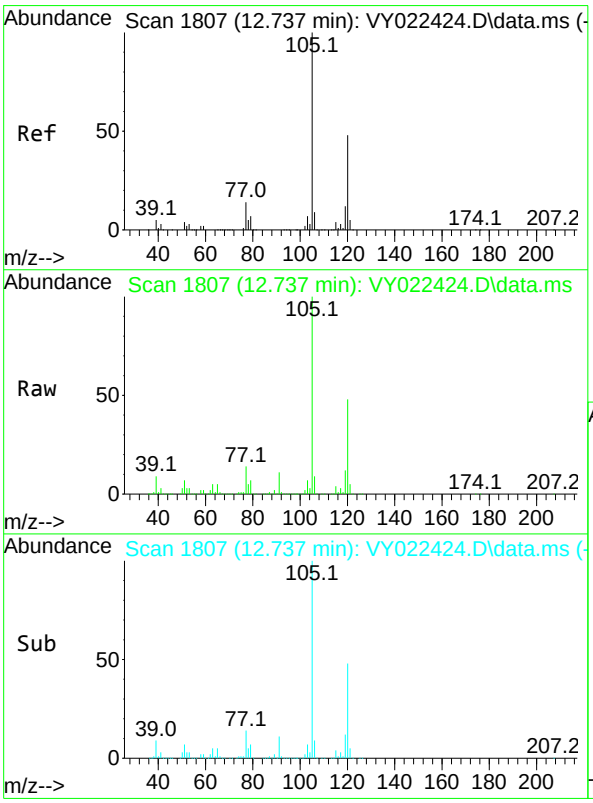
#79
2-Chlorotoluene
Concen: 49.254 ug/l
RT: 12.682 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 91 Resp: 429534

Ion	Ratio	Lower	Upper
91	100		
126	34.9	17.4	52.3

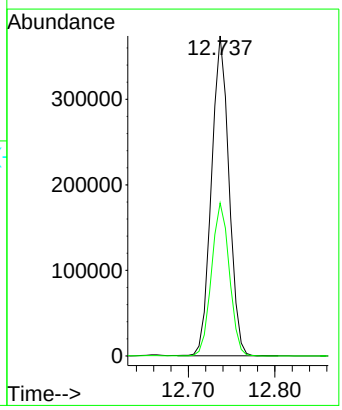


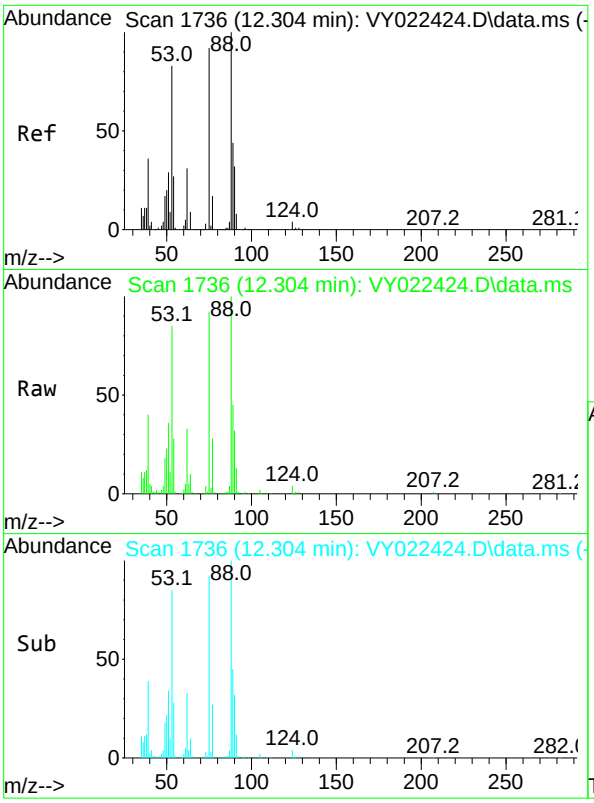


#80
1,3,5-Trimethylbenzene
Concen: 50.070 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion:105 Resp: 525186

Ion	Ratio	Lower	Upper
105	100		
120	48.7	24.3	73.0



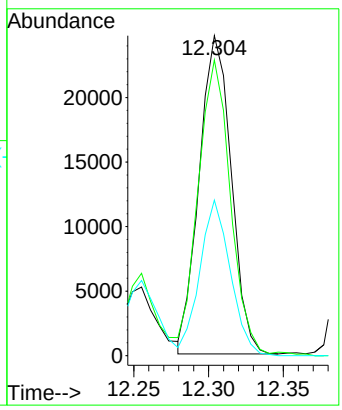


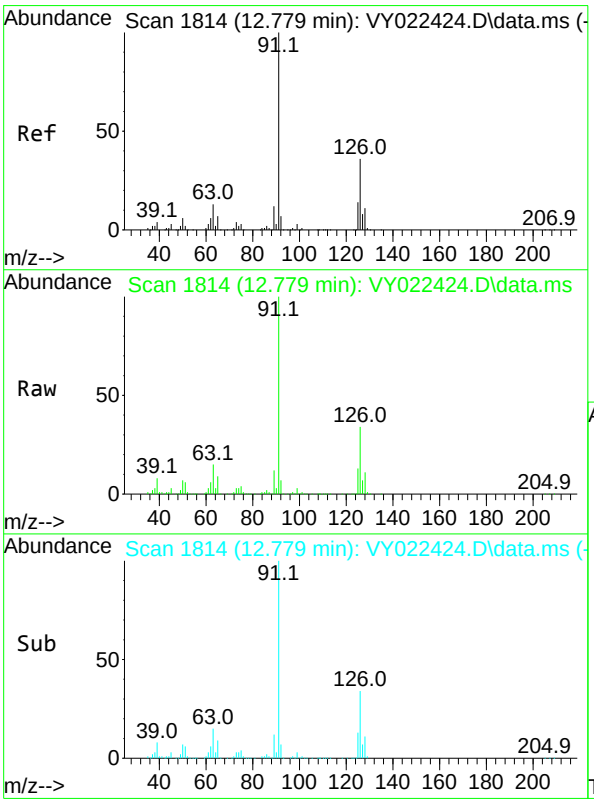
#81
trans-1,4-Dichloro-2-butene
Concen: 48.597 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 75 Resp: 36715

Ion	Ratio	Lower	Upper
75	100		
53	93.9	75.1	112.7
89	46.7	37.4	56.0

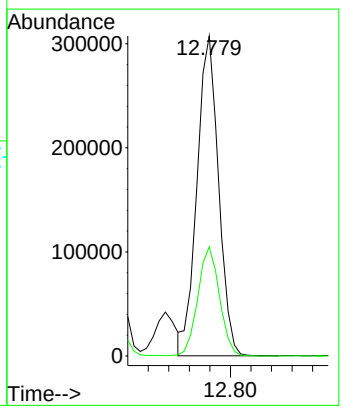


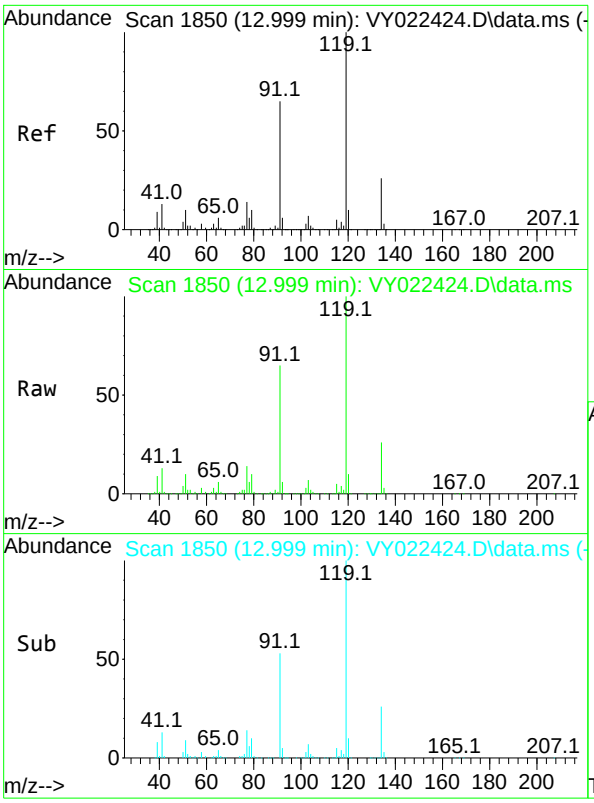


#82
4-Chlorotoluene
Concen: 49.734 ug/l
RT: 12.779 min Scan# 1814
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 91 Resp: 446697

Ion	Ratio	Lower	Upper
91	100		
126	34.4	17.2	51.6



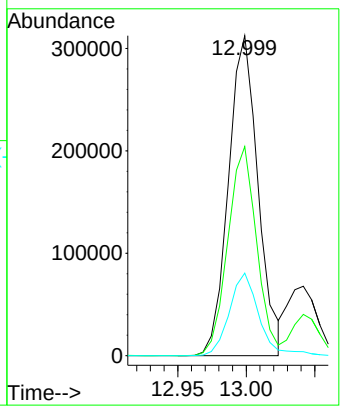


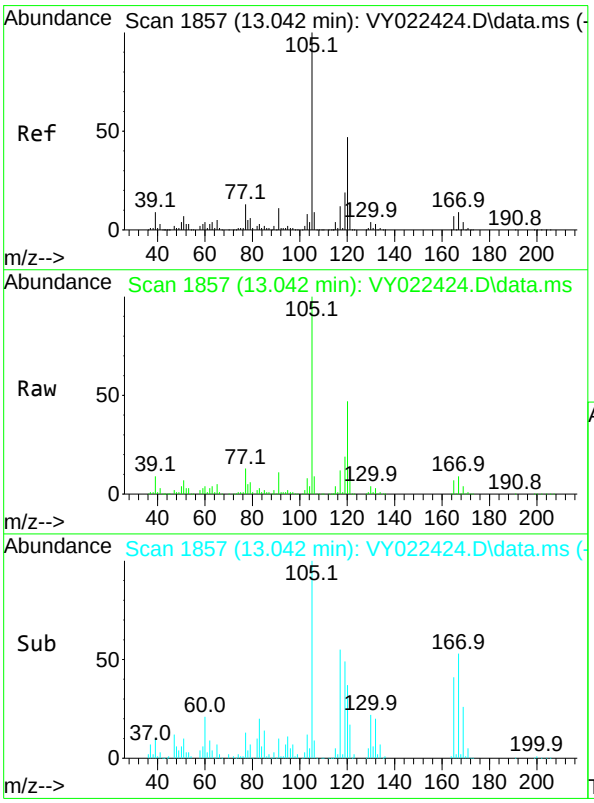
#83
tert-Butylbenzene
Concen: 49.598 ug/l
RT: 12.999 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion:119 Resp: 470027

Ion	Ratio	Lower	Upper
119	100		
91	63.5	31.8	95.3
134	25.9	13.0	38.9

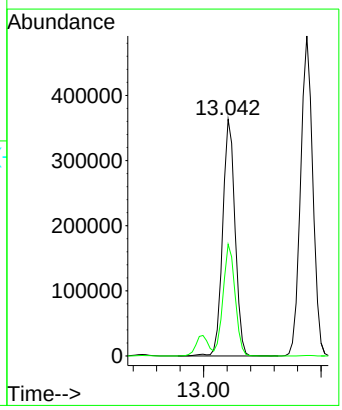


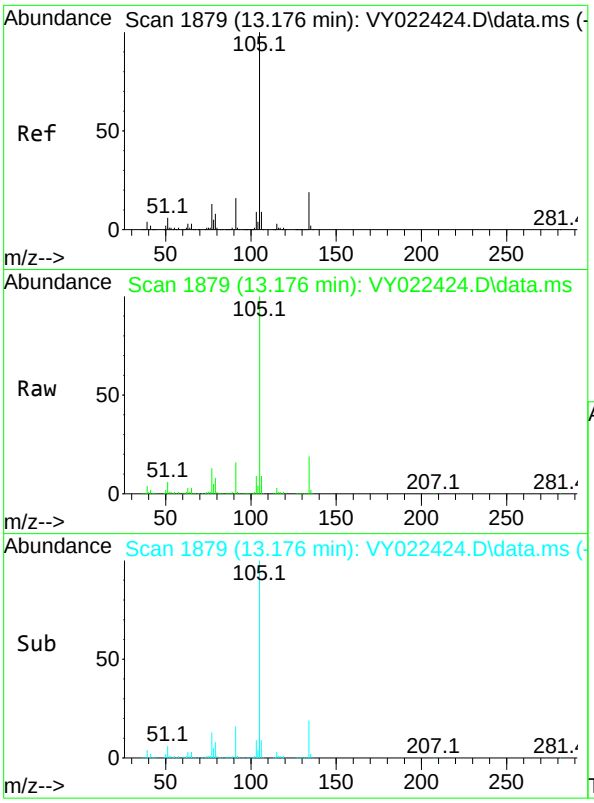


#84
1,2,4-Trimethylbenzene
Concen: 50.324 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion:105 Resp: 531189

Ion	Ratio	Lower	Upper
105	100		
120	45.7	22.9	68.5



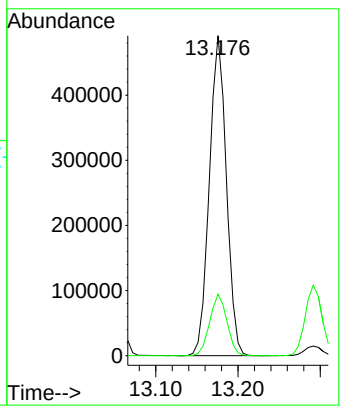


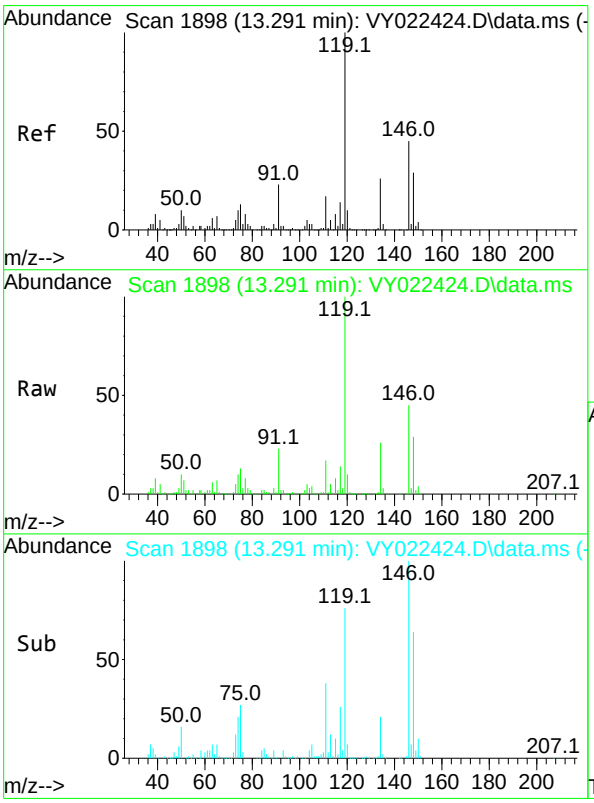
#85
sec-Butylbenzene
Concen: 50.266 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion:105 Resp: 706452

Ion	Ratio	Lower	Upper
105	100		
134	19.4	9.7	29.1

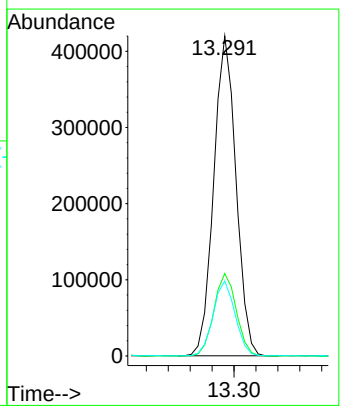


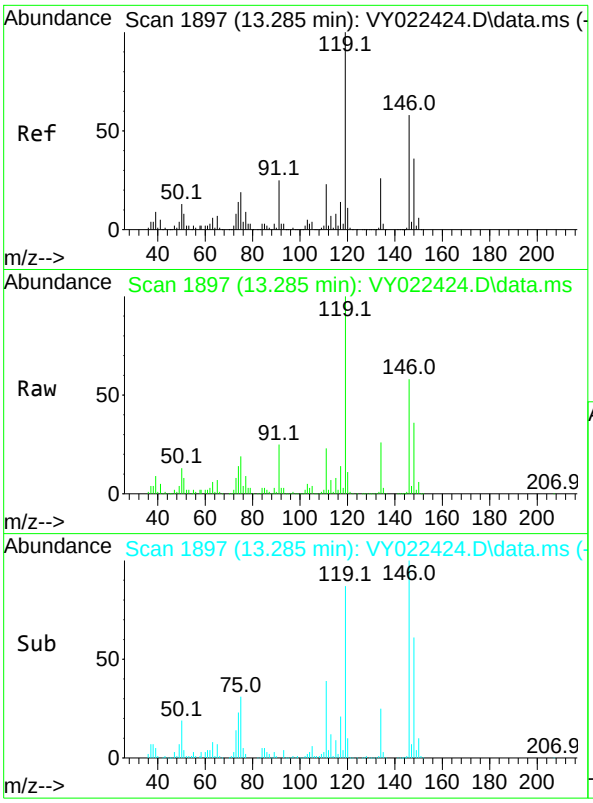


#86
p-Isopropyltoluene
Concen: 50.450 ug/l
RT: 13.291 min Scan# 1898
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion:119 Resp: 592083

Ion	Ratio	Lower	Upper
119	100		
134	26.0	13.0	39.0
91	23.2	11.6	34.8



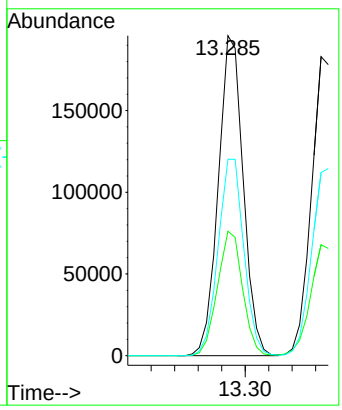


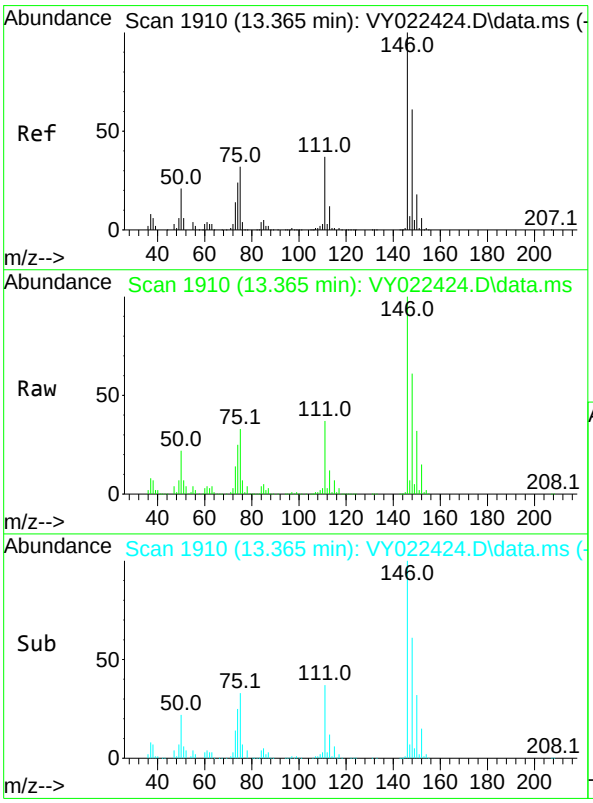
#87
1,3-Dichlorobenzene
Concen: 49.731 ug/l
RT: 13.285 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion:146 Resp: 289072

Ion	Ratio	Lower	Upper
146	100		
111	39.2	19.6	58.8
148	63.4	31.7	95.1

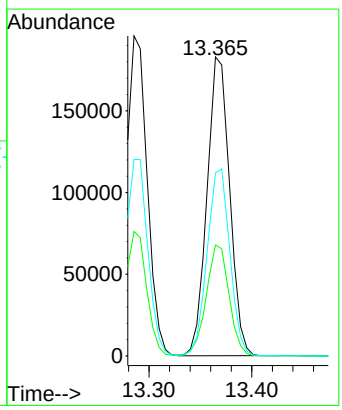


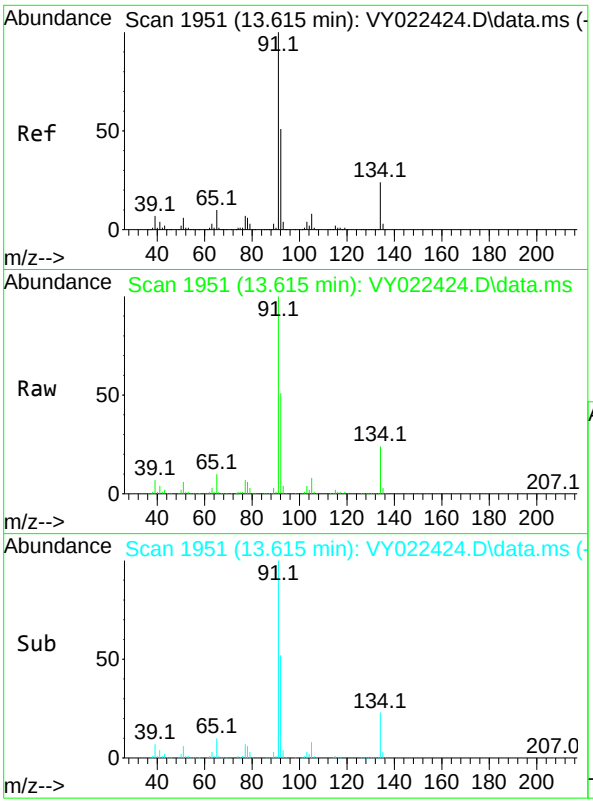


#88
1,4-Dichlorobenzene
Concen: 50.380 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion:146 Resp: 280006

Ion	Ratio	Lower	Upper
146	100		
111	37.4	18.7	56.1
148	62.9	31.4	94.3



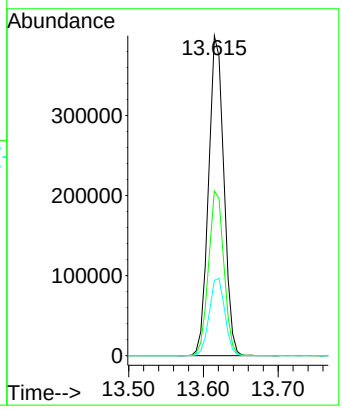


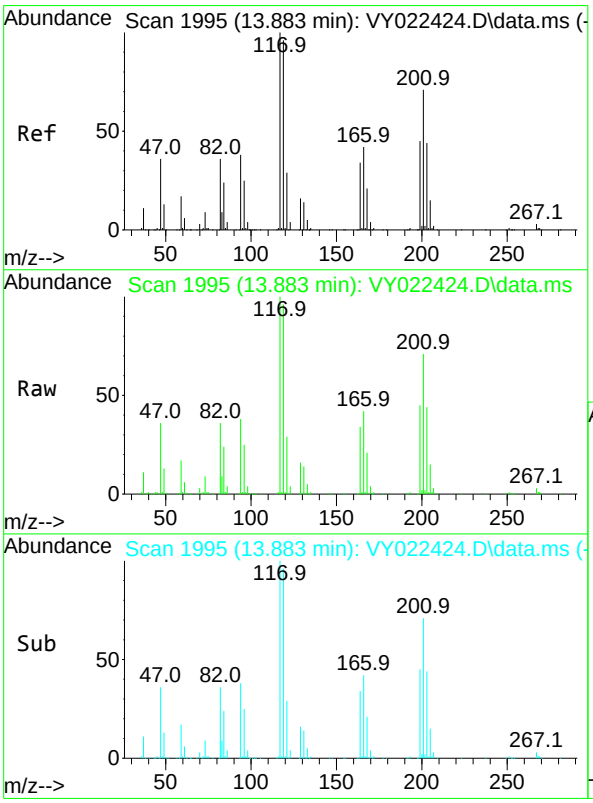
#89
n-Butylbenzene
Concen: 51.626 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion: 91 Resp: 568088

Ion	Ratio	Lower	Upper
91	100		
92	51.7	25.9	77.6
134	24.7	12.4	37.0

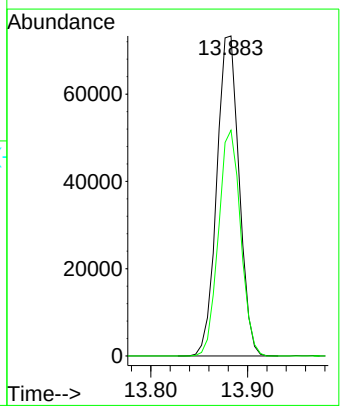


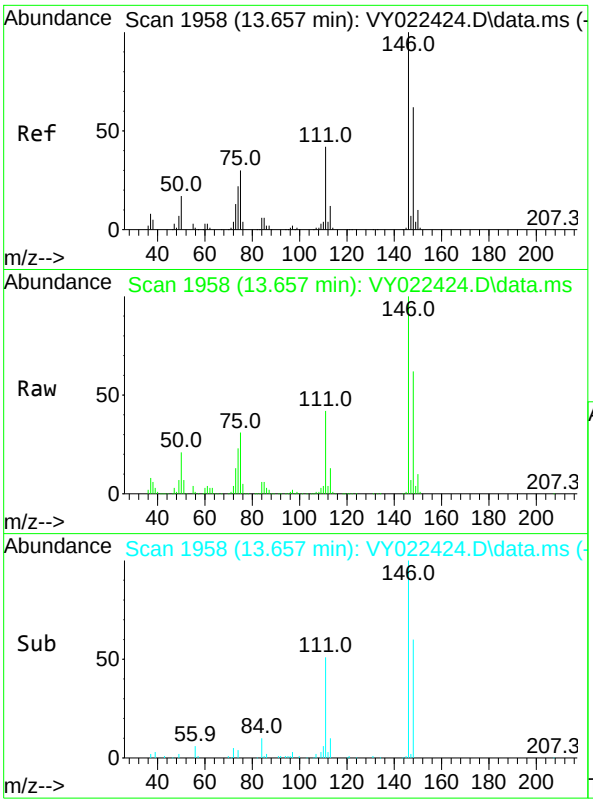


#90
Hexachloroethane
Concen: 50.287 ug/l
RT: 13.883 min Scan# 1995
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion:117 Resp: 117444

Ion	Ratio	Lower	Upper
117	100		
201	70.0	35.0	105.0



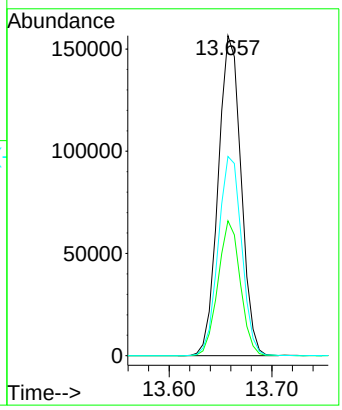


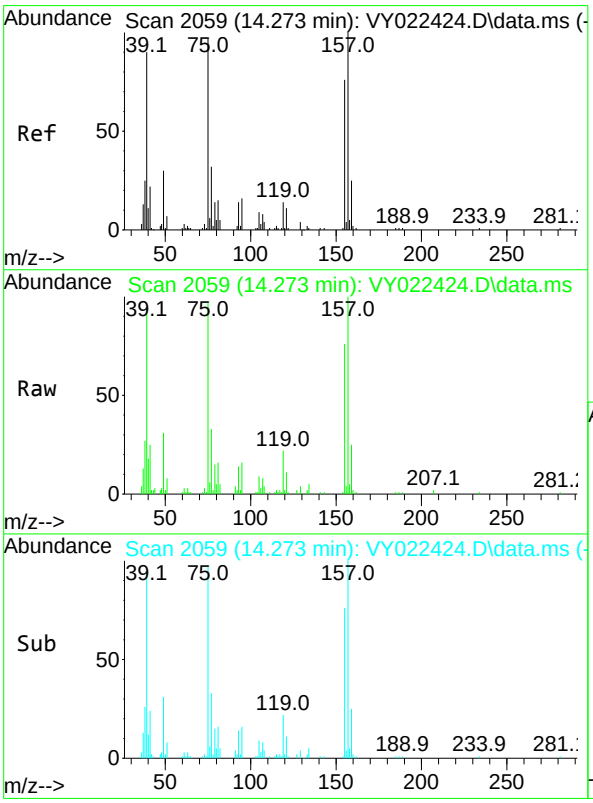
#91
1,2-Dichlorobenzene
Concen: 49.756 ug/l
RT: 13.657 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion:146 Resp: 241569

Ion	Ratio	Lower	Upper
146	100		
111	41.1	20.5	61.6
148	63.9	31.9	95.9

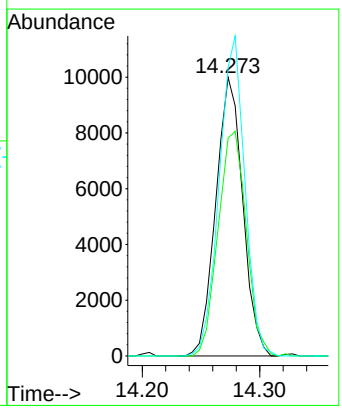


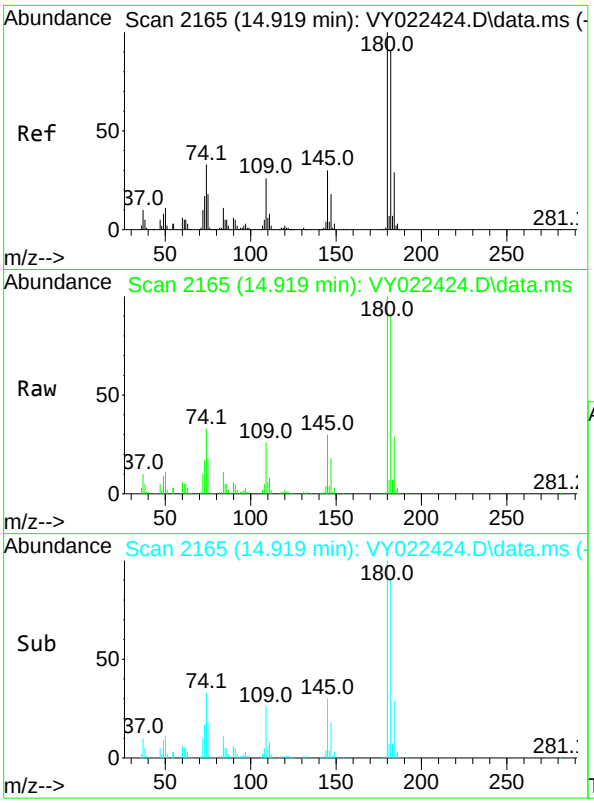


#92
1,2-Dibromo-3-Chloropropane
Concen: 48.741 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion: 75 Resp: 15930

Ion	Ratio	Lower	Upper
75	100		
155	84.5	42.3	126.8
157	108.9	54.4	163.3



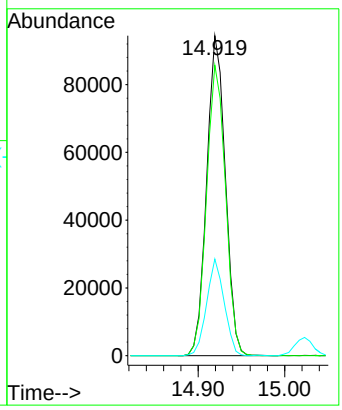


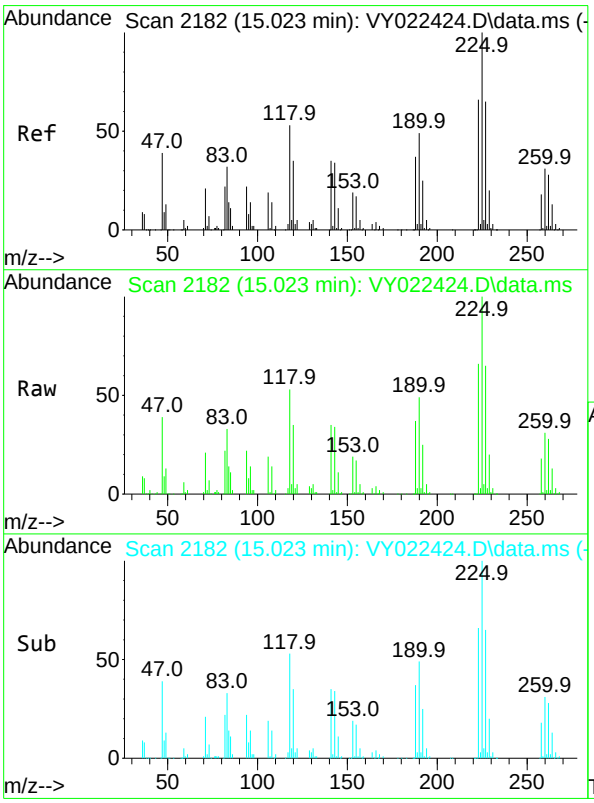
#93
1,2,4-Trichlorobenzene
Concen: 52.462 ug/l
RT: 14.919 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion:180 Resp: 141204

Ion	Ratio	Lower	Upper
180	100		
182	92.4	46.2	138.6
145	28.5	14.2	42.8

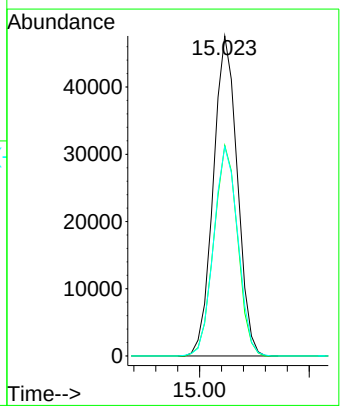


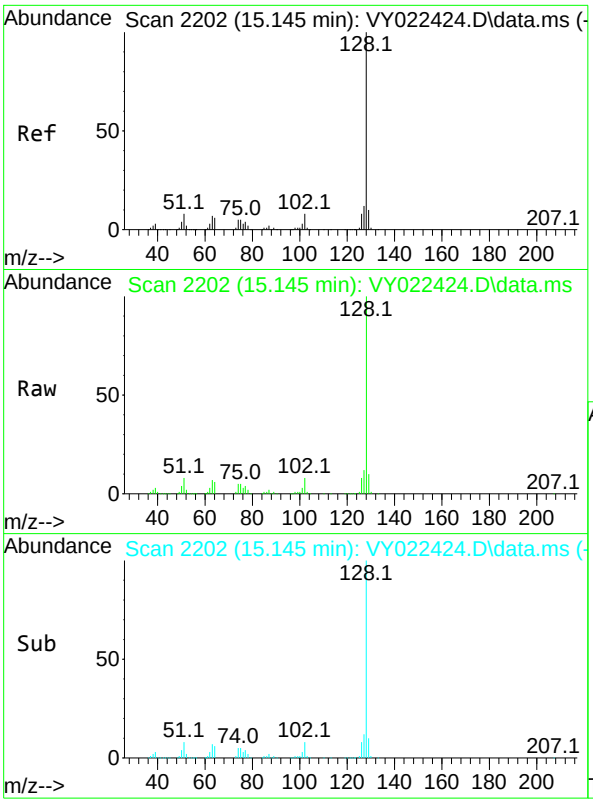


#94
Hexachlorobutadiene
Concen: 51.250 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion:225 Resp: 72391

Ion	Ratio	Lower	Upper
225	100		
223	65.1	32.6	97.7
227	66.0	33.0	99.0



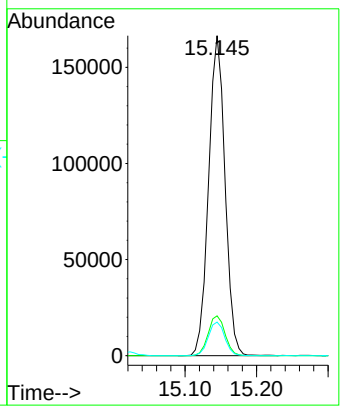


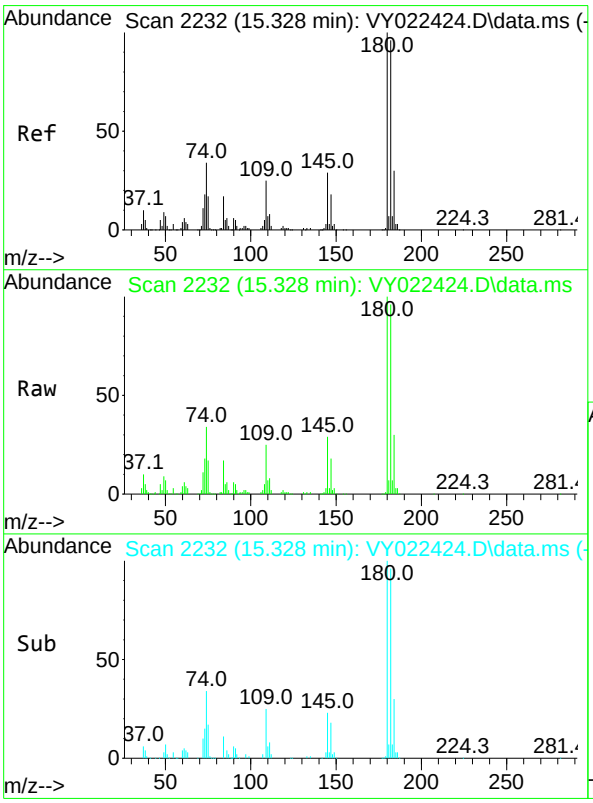
#95
Naphthalene
Concen: 53.269 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Tgt Ion:128 Resp: 265056

Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.2	15.4
129	10.6	8.5	12.7

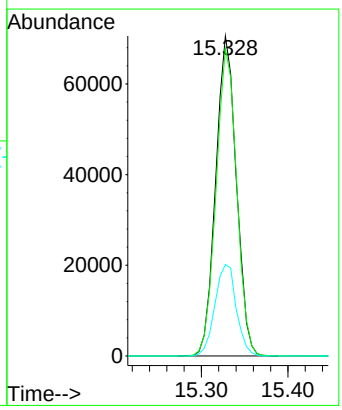




#96
1,2,3-Trichlorobenzene
Concen: 52.826 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. 0.000 min
Lab File: VY022424.D
Acq: 27 May 2025 09:59

Tgt Ion:180 Resp: 116609

Ion	Ratio	Lower	Upper
180	100		
182	96.2	48.1	144.3
145	29.7	14.9	44.5



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022425.D
Acq On : 27 May 2025 10:22
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Quant Time: May 28 15:24:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	254497	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.622	114	420045	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	364148	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	175436	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	275425	102.746	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 205.500%#			
35) Dibromofluoromethane	7.640	113	259880	105.646	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 211.300%#			
50) Toluene-d8	10.109	98	1070243	106.726	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 213.460%#			
62) 4-Bromofluorobenzene	12.408	95	321108	105.861	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 211.720%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	219107	90.239	ug/l	99
3) Chloromethane	2.074	50	476625	79.803	ug/l	99
4) Vinyl Chloride	2.208	62	657774	90.657	ug/l	97
5) Bromomethane	2.592	94	617342	93.629	ug/l	98
6) Chloroethane	2.739	64	461685	97.376	ug/l	100
7) Trichlorofluoromethane	3.056	101	604374	98.726	ug/l	99
8) Diethyl Ether	3.458	74	144974	102.707	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.824	101	266284	99.149	ug/l	99
10) Methyl Iodide	4.007	142	338872	111.841	ug/l	100
11) Tert butyl alcohol	4.872	59	96979	513.251	ug/l	99
12) 1,1-Dichloroethene	3.793	96	264638	99.249	ug/l	98
13) Acrolein	3.659	56	149071	526.536	ug/l	100
14) Allyl chloride	4.391	41	407614	101.625	ug/l	98
15) Acrylonitrile	5.068	53	299369	526.172	ug/l	99
16) Acetone	3.879	43	219178	497.574	ug/l #	88
17) Carbon Disulfide	4.110	76	851273	100.043	ug/l	100
18) Methyl Acetate	4.391	43	178729	108.317	ug/l	100
19) Methyl tert-butyl Ether	5.122	73	735411	103.886	ug/l	99
20) Methylene Chloride	4.623	84	279934	89.995	ug/l	97
21) trans-1,2-Dichloroethene	5.122	96	296339	101.801	ug/l	97
22) Diisopropyl ether	6.025	45	906611	102.415	ug/l	99
23) Vinyl Acetate	5.964	43	2634055	518.224	ug/l	99
24) 1,1-Dichloroethane	5.921	63	540724	103.372	ug/l	99
25) 2-Butanone	6.903	43	386768	527.215	ug/l	100
26) 2,2-Dichloropropane	6.890	77	482308	101.829	ug/l	99
27) cis-1,2-Dichloroethene	6.896	96	348023	103.273	ug/l	99
28) Bromochloromethane	7.250	49	223498	102.322	ug/l	99
29) Tetrahydrofuran	7.268	42	254076	519.309	ug/l	99
30) Chloroform	7.427	83	535360	103.866	ug/l	99
31) Cyclohexane	7.707	56	481828	93.445	ug/l	98
32) 1,1,1-Trichloroethane	7.622	97	484647	103.605	ug/l	99
36) 1,1-Dichloropropene	7.841	75	405555	103.896	ug/l	99
37) Ethyl Acetate	6.988	43	174471	105.171	ug/l	99
38) Carbon Tetrachloride	7.823	117	428817	105.456	ug/l	99
39) Methylcyclohexane	9.110	83	536153	103.329	ug/l	98
40) Benzene	8.085	78	1229435	105.848	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022425.D
Acq On : 27 May 2025 10:22
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Quant Time: May 28 15:24:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.226	41	107407	106.675	ug/l		94
42) 1,2-Dichloroethane	8.165	62	321758	104.887	ug/l		99
43) Isopropyl Acetate	8.201	43	385296	106.287	ug/l		100
44) Trichloroethene	8.866	130	300293	104.583	ug/l		97
45) 1,2-Dichloropropane	9.146	63	286982	105.160	ug/l		98
46) Dibromomethane	9.231	93	160779	105.464	ug/l		99
47) Bromodichloromethane	9.427	83	413821	105.558	ug/l		96
48) Methyl methacrylate	9.225	41	181931	108.116	ug/l		100
49) 1,4-Dioxane	9.231	88	36343	2158.331	ug/l		96
51) 4-Methyl-2-Pentanone	10.000	43	995669	556.674	ug/l		99
52) Toluene	10.176	92	780350	107.563	ug/l		100
53) t-1,3-Dichloropropene	10.396	75	396365	108.544	ug/l		98
54) cis-1,3-Dichloropropene	9.859	75	460876	107.411	ug/l		98
55) 1,1,2-Trichloroethane	10.573	97	204326	106.007	ug/l		97
56) Ethyl methacrylate	10.439	69	306772	110.908	ug/l		98
57) 1,3-Dichloropropane	10.719	76	359684	105.893	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.713	63	770988	559.284	ug/l		100
59) 2-Hexanone	10.762	43	660980	563.900	ug/l		98
60) Dibromochloromethane	10.914	129	268919	109.221	ug/l		99
61) 1,2-Dibromoethane	11.018	107	187723	106.485	ug/l		98
64) Tetrachloroethene	10.652	164	312696	100.828	ug/l		98
65) Chlorobenzene	11.444	112	824685	106.209	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.518	131	285811	108.640	ug/l		99
67) Ethyl Benzene	11.524	91	1560112	108.210	ug/l		98
68) m/p-Xylenes	11.633	106	1201541	219.811	ug/l		99
69) o-Xylene	11.957	106	559553	108.917	ug/l		100
70) Styrene	11.969	104	959318	112.144	ug/l		99
71) Bromoform	12.133	173	149684	108.623	ug/l	#	100
73) Isopropylbenzene	12.255	105	1440314	104.314	ug/l		100
74) N-amyl acetate	12.072	43	368563	109.087	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.505	83	228832	105.191	ug/l		100
76) 1,2,3-Trichloropropane	12.554	75	322024	183.252	ug/l	#	100
77) Bromobenzene	12.536	156	305847	102.933	ug/l		97
78) n-propylbenzene	12.597	91	1737515	104.859	ug/l		100
79) 2-Chlorotoluene	12.682	91	934717	104.209	ug/l		99
80) 1,3,5-Trimethylbenzene	12.737	105	1143145	105.961	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.304	75	80556	103.668	ug/l		99
82) 4-Chlorotoluene	12.780	91	972892	105.314	ug/l		100
83) tert-Butylbenzene	12.999	119	1023704	105.025	ug/l		100
84) 1,2,4-Trimethylbenzene	13.042	105	1159943	106.843	ug/l		99
85) sec-Butylbenzene	13.176	105	1528524	105.741	ug/l		99
86) p-Isopropyltoluene	13.292	119	1320591	109.402	ug/l		100
87) 1,3-Dichlorobenzene	13.292	146	644184	107.749	ug/l		100
88) 1,4-Dichlorobenzene	13.371	146	599095	104.800	ug/l		99
89) n-Butylbenzene	13.621	91	1207976	106.731	ug/l		99
90) Hexachloroethane	13.883	117	251685	104.776	ug/l		98
91) 1,2-Dichlorobenzene	13.657	146	524498	105.034	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	32714	97.318	ug/l		97
93) 1,2,4-Trichlorobenzene	14.919	180	295471	106.731	ug/l		98
94) Hexachlorobutadiene	15.023	225	153056	105.350	ug/l		98
95) Naphthalene	15.145	128	568187	111.021	ug/l		99
96) 1,2,3-Trichlorobenzene	15.328	180	246652	108.638	ug/l		98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022425.D
Acq On : 27 May 2025 10:22
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Quant Time: May 28 15:24:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

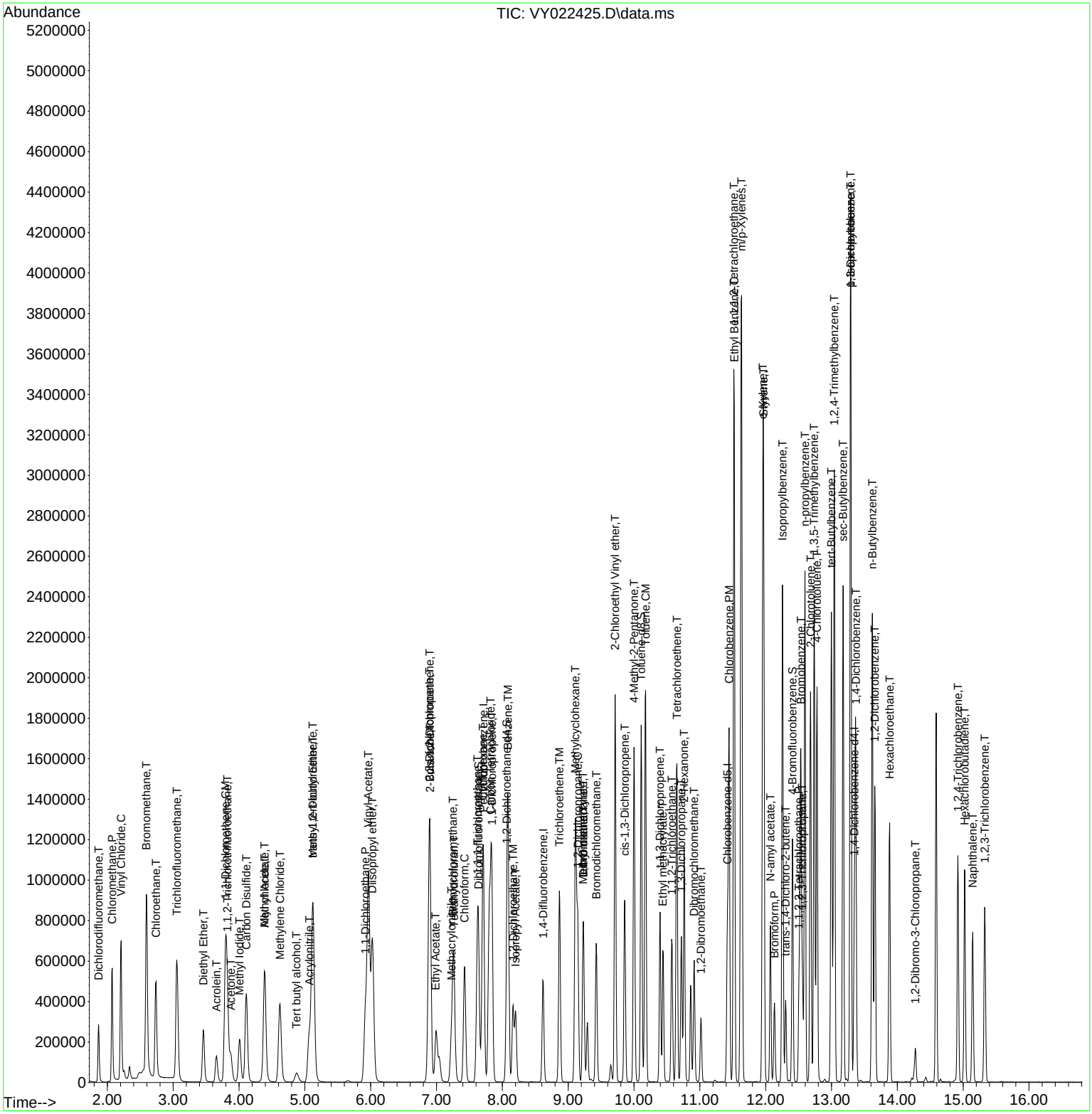
(#) = qualifier out of range (m) = manual integration (+) = signals summed

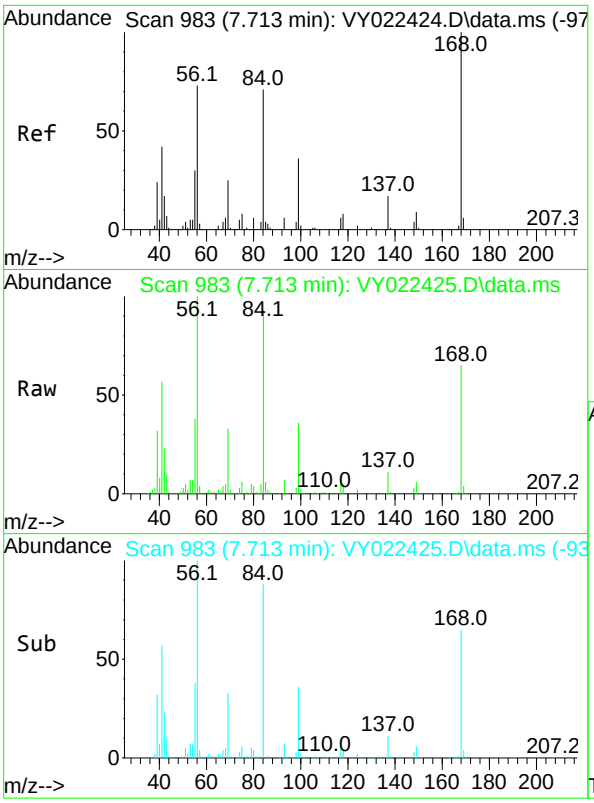
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022425.D
Acq On : 27 May 2025 10:22
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Quant Time: May 28 15:24:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration



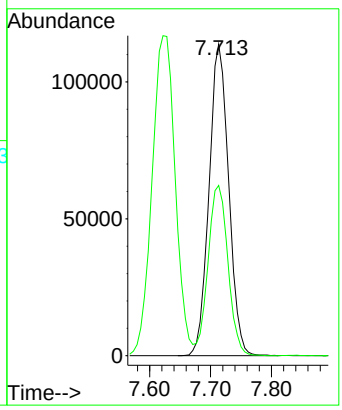


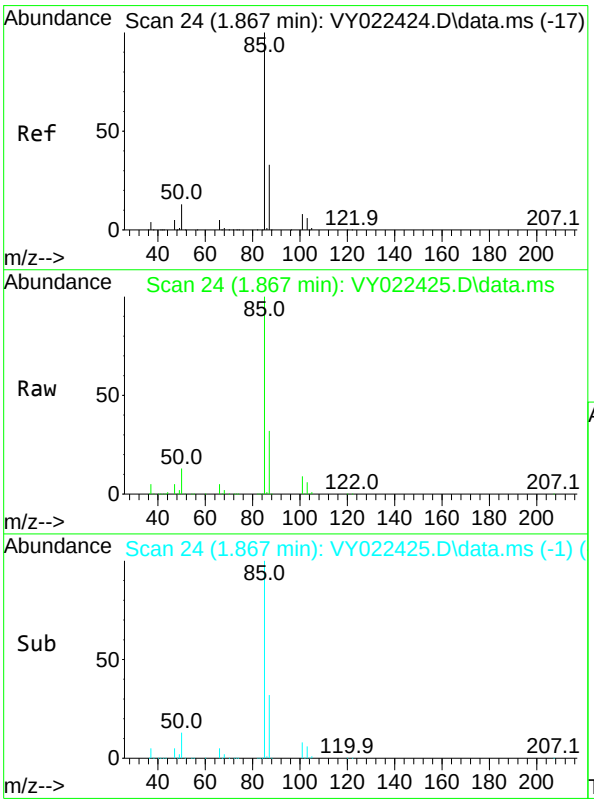
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion:168 Resp: 254497

Ion	Ratio	Lower	Upper
168	100		
99	54.7	44.7	67.1

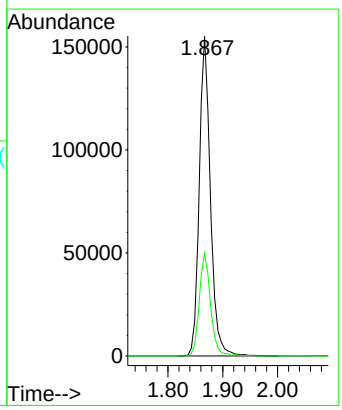


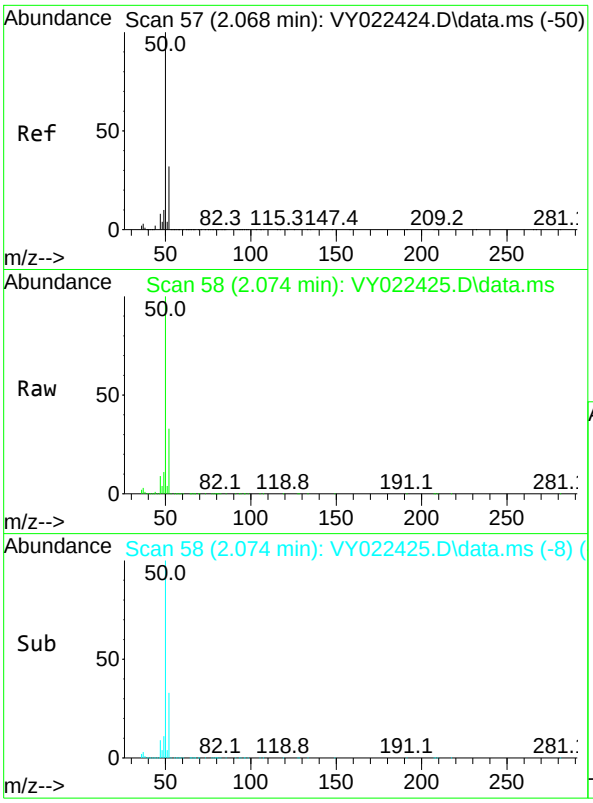


#2
Dichlorodifluoromethane
Concen: 90.239 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 85 Resp: 219107

Ion	Ratio	Lower	Upper
85	100		
87	32.2	16.4	49.2



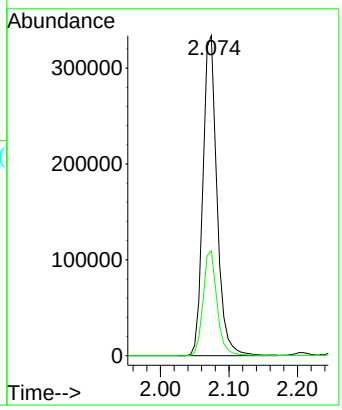


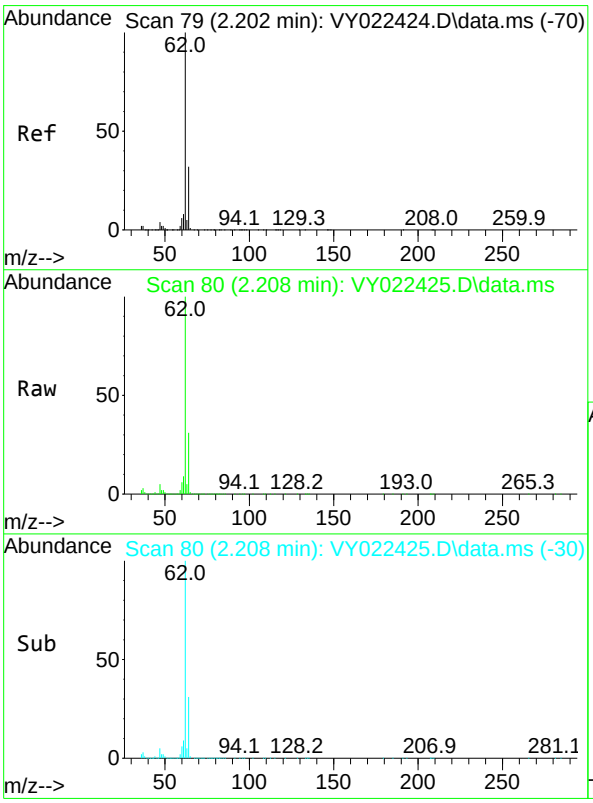
#3
Chloromethane
Concen: 79.803 ug/l
RT: 2.074 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 50 Resp: 476625

Ion	Ratio	Lower	Upper
50	100		
52	32.7	25.5	38.3

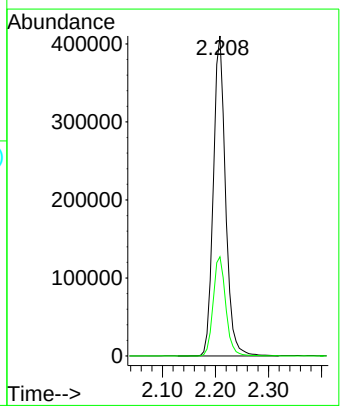


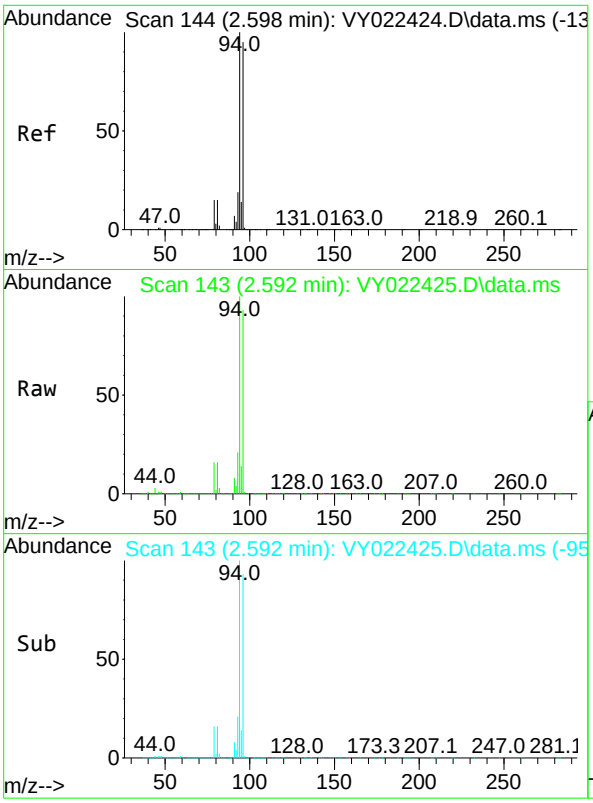


#4
Vinyl Chloride
Concen: 90.657 ug/l
RT: 2.208 min Scan# 80
Delta R.T. 0.006 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 62 Resp: 657774

Ion	Ratio	Lower	Upper
62	100		
64	31.0	26.0	39.0



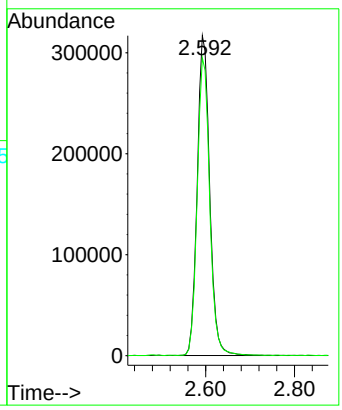


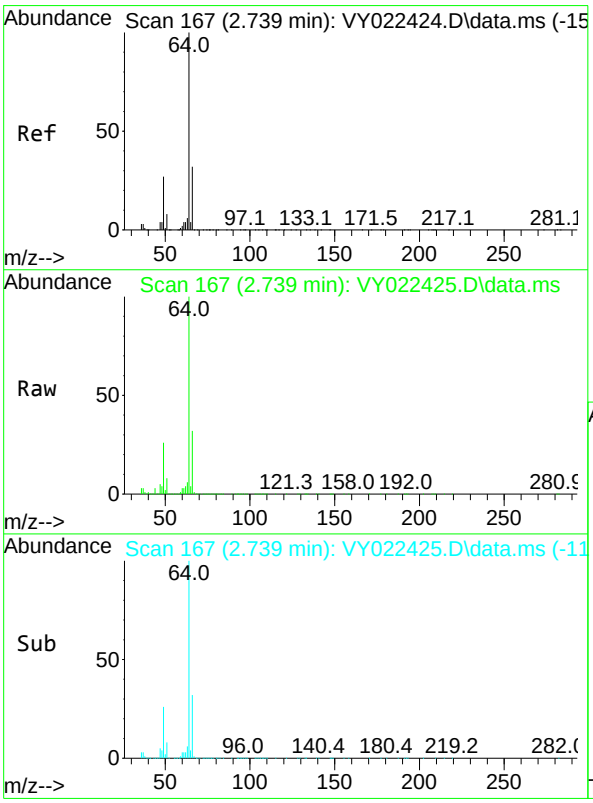
#5
Bromomethane
Concen: 93.629 ug/l
RT: 2.592 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 94 Resp: 617342

Ion	Ratio	Lower	Upper
94	100		
96	93.0	76.0	114.0

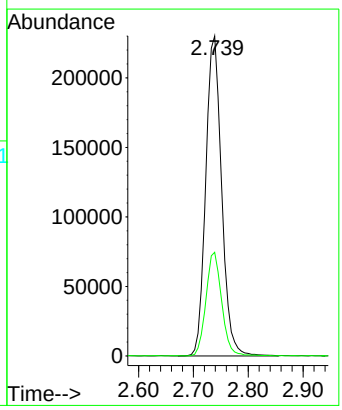


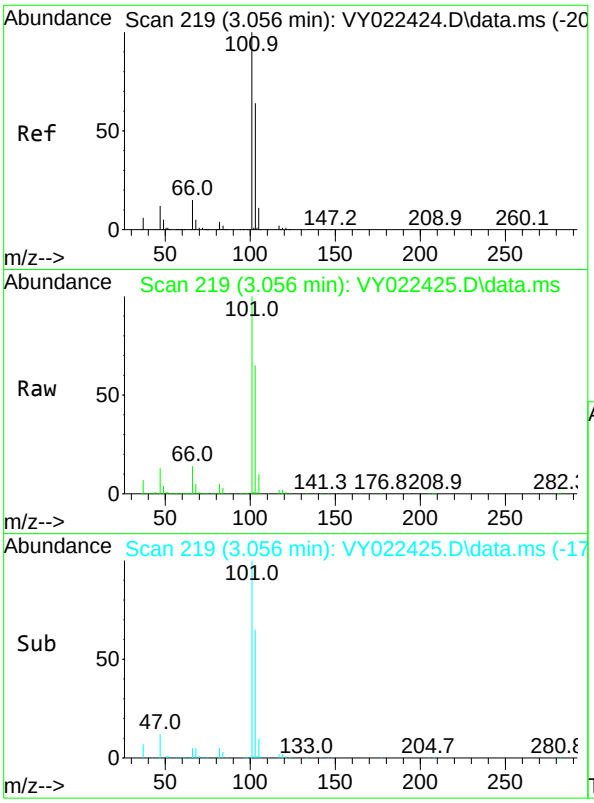


#6
Chloroethane
Concen: 97.376 ug/l
RT: 2.739 min Scan# 167
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 64 Resp: 461685

Ion	Ratio	Lower	Upper
64	100		
66	32.3	25.9	38.9



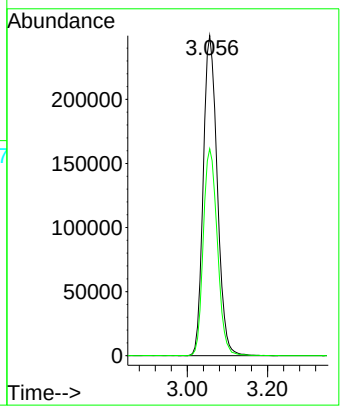


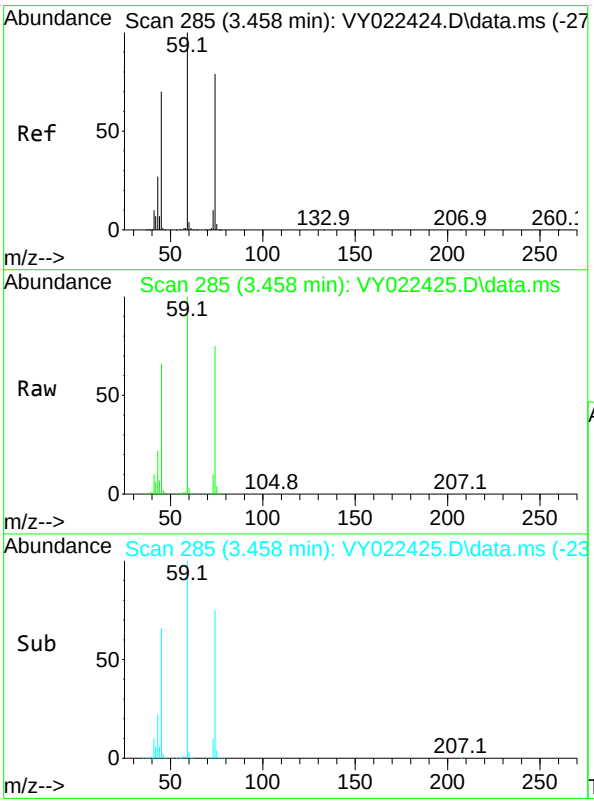
#7
Trichlorofluoromethane
Concen: 98.726 ug/l
RT: 3.056 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion:101 Resp: 604374

Ion	Ratio	Lower	Upper
101	100		
103	64.6	50.9	76.3

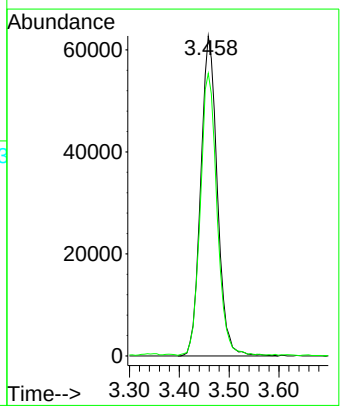


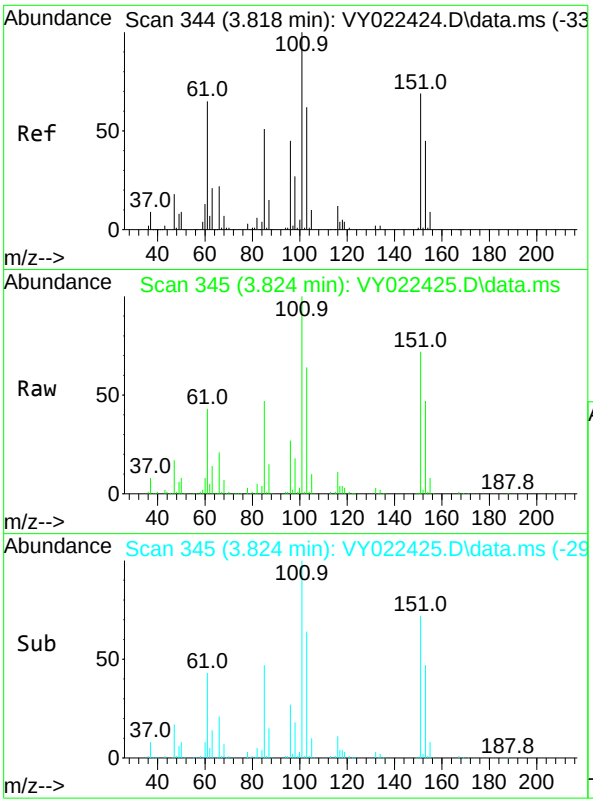


#8
Diethyl Ether
Concen: 102.707 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 74 Resp: 144974

Ion	Ratio	Lower	Upper
74	100		
45	88.4	44.9	134.5



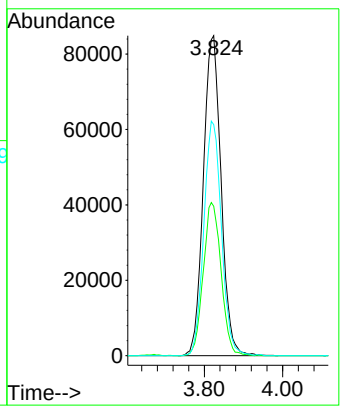


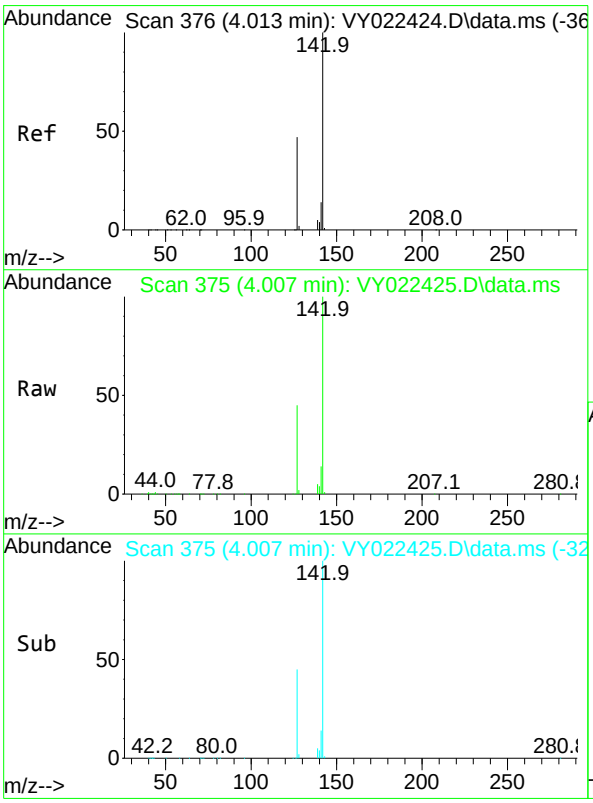
#9
1,1,2-Trichlorotrifluoroethane
Concen: 99.149 ug/l
RT: 3.824 min Scan# 34
Delta R.T. 0.006 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion:101 Resp: 266284

Ion	Ratio	Lower	Upper
101	100		
85	48.1	39.2	58.8
151	72.8	58.8	88.2

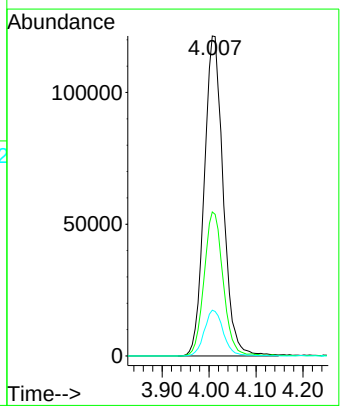


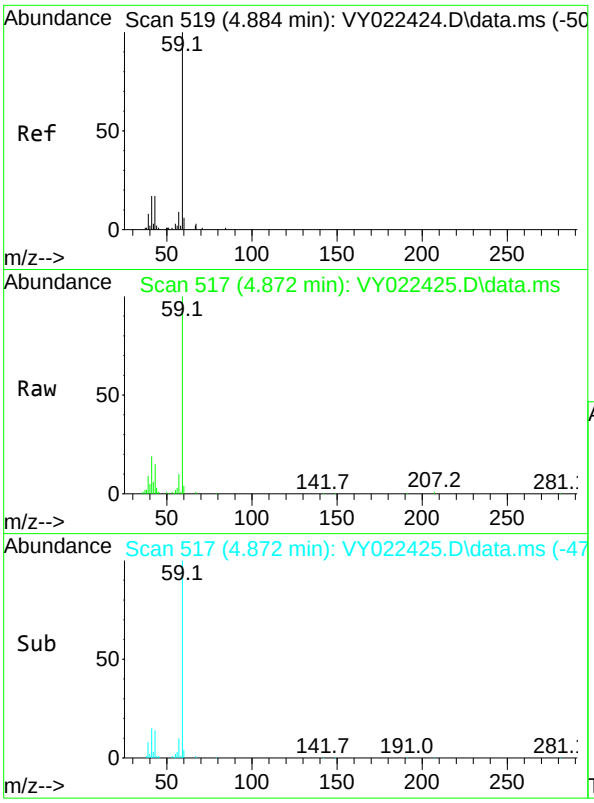


#10
Methyl Iodide
Concen: 111.841 ug/l
RT: 4.007 min Scan# 375
Delta R.T. -0.006 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion:142 Resp: 338872

Ion	Ratio	Lower	Upper
142	100		
127	45.3	36.2	54.4
141	14.4	11.6	17.4



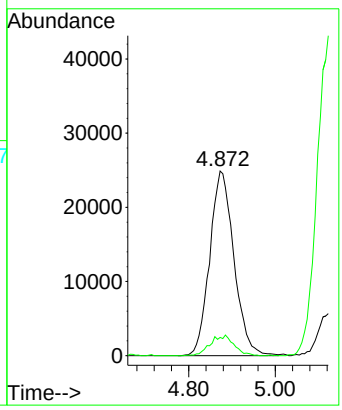


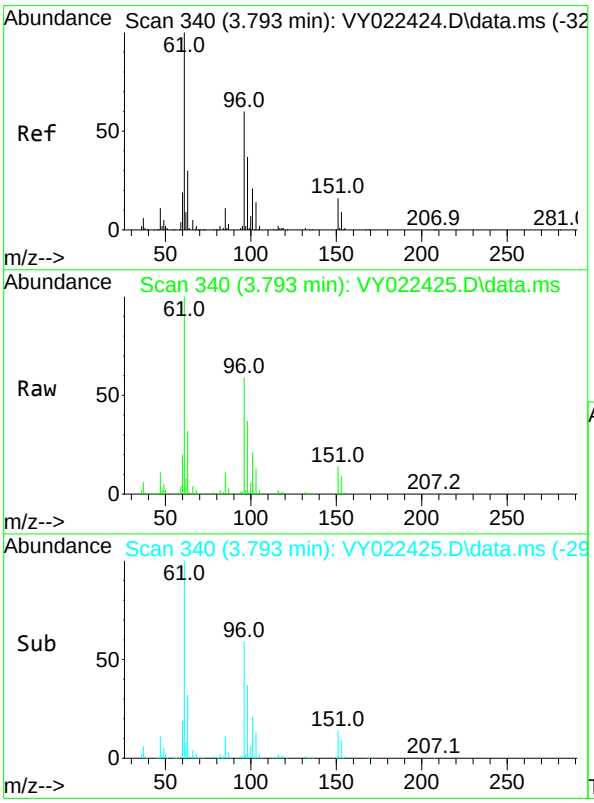
#11
Tert butyl alcohol
Concen: 513.251 ug/l
RT: 4.872 min Scan# 5
Delta R.T. -0.012 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 59 Resp: 96979

Ion	Ratio	Lower	Upper
59	100		
57	10.8	9.1	13.7

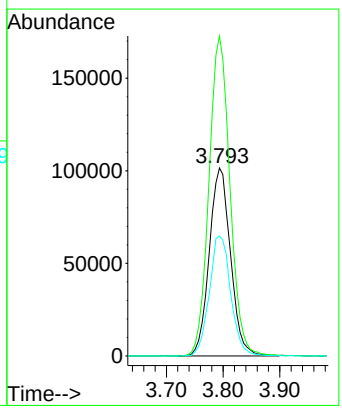


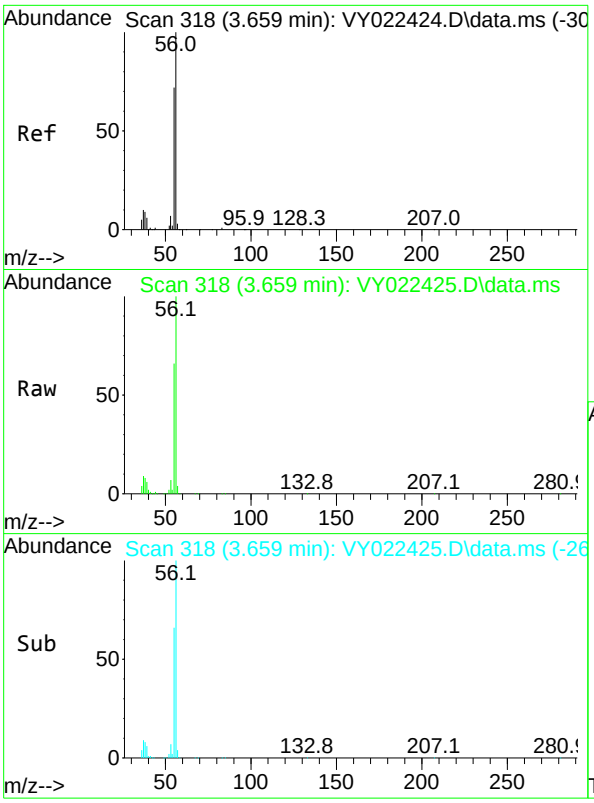


#12
1,1-Dichloroethene
Concen: 99.249 ug/l
RT: 3.793 min Scan# 340
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 96 Resp: 264638

Ion	Ratio	Lower	Upper
96	100		
61	170.1	134.1	201.1
98	63.8	50.2	75.2



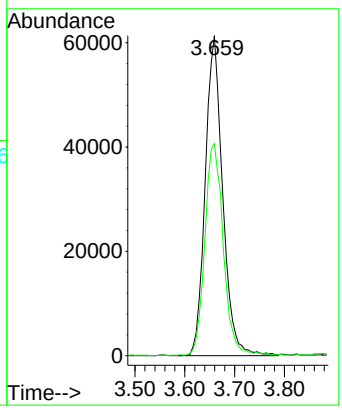


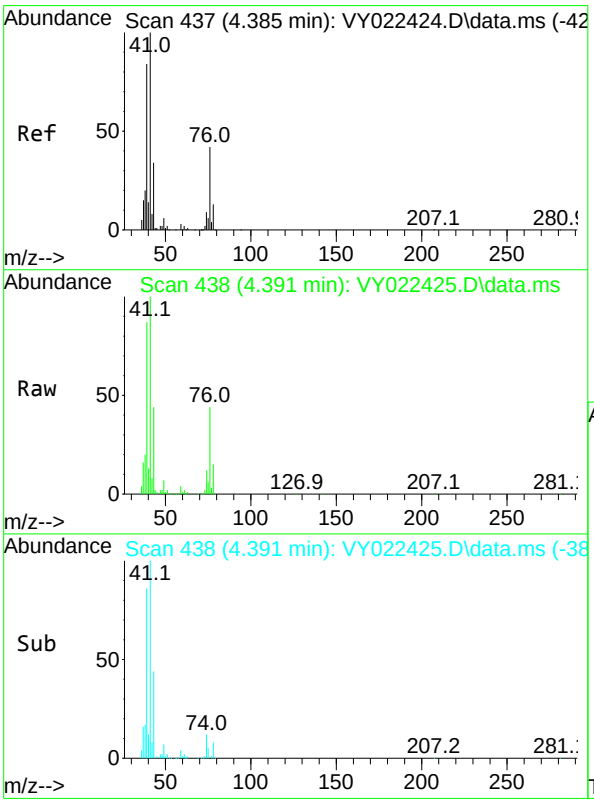
#13
Acrolein
Concen: 526.536 ug/l
RT: 3.659 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 56 Resp: 149071

Ion	Ratio	Lower	Upper
56	100		
55	70.3	56.5	84.7

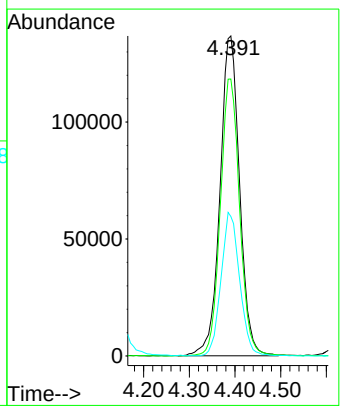


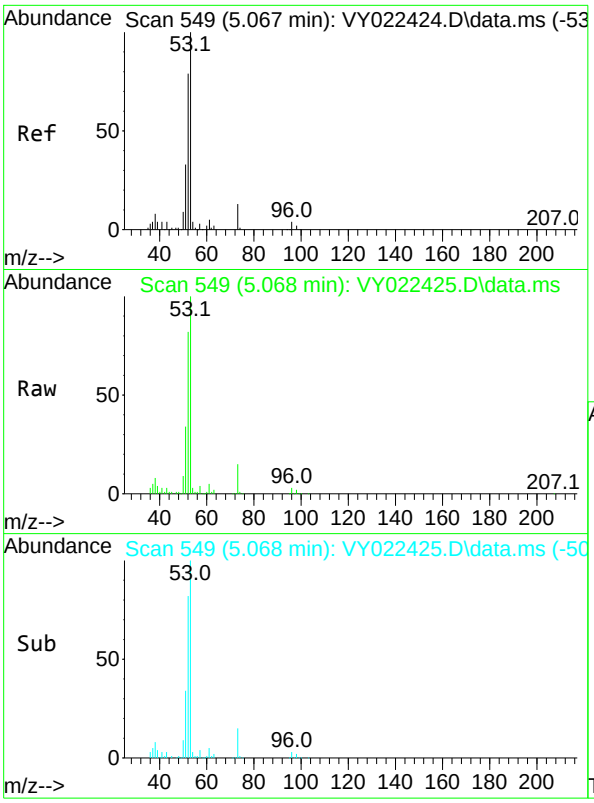


#14
Allyl chloride
Concen: 101.625 ug/l
RT: 4.391 min Scan# 438
Delta R.T. 0.006 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 41 Resp: 407614

Ion	Ratio	Lower	Upper
41	100		
39	85.1	66.6	100.0
76	42.4	33.7	50.5



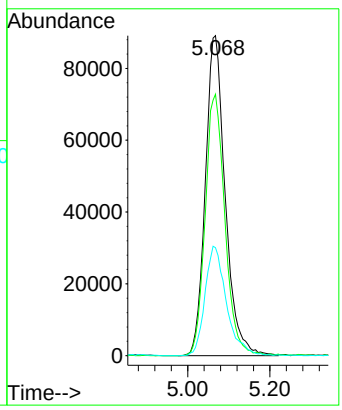


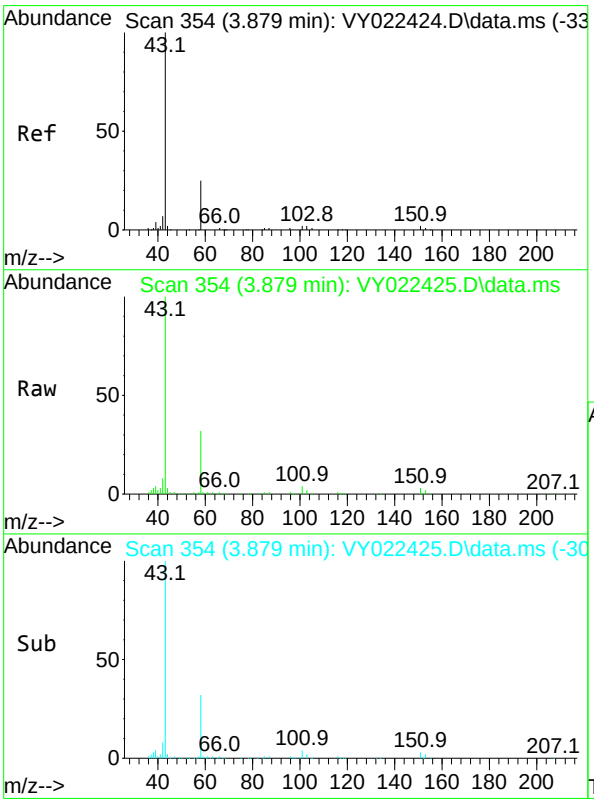
#15
Acrylonitrile
Concen: 526.172 ug/l
RT: 5.068 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 53 Resp: 299369

Ion	Ratio	Lower	Upper
53	100		
52	81.1	65.1	97.7
51	36.9	30.0	45.0

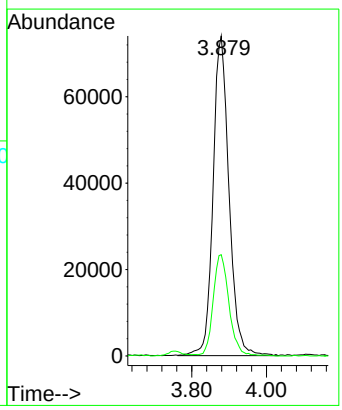


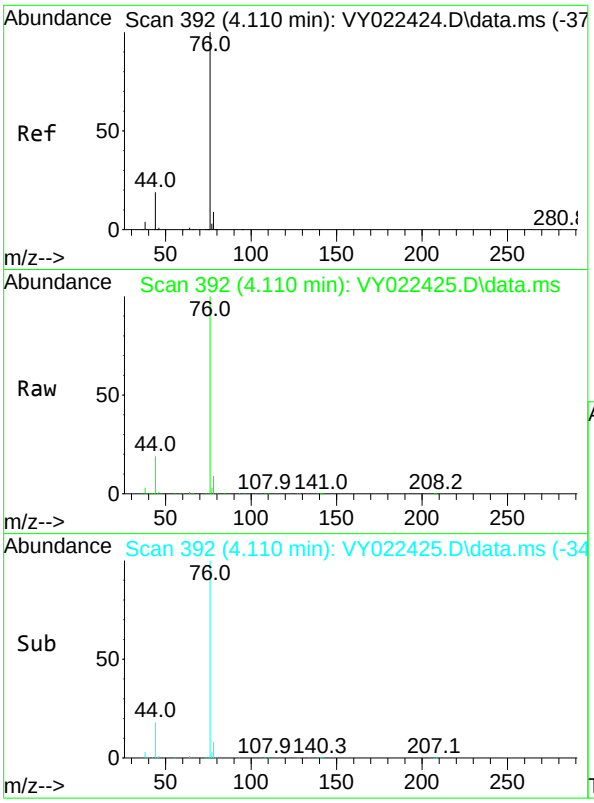


#16
Acetone
Concen: 497.574 ug/l
RT: 3.879 min Scan# 354
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 43 Resp: 219178

Ion	Ratio	Lower	Upper
43	100		
58	31.7	20.6	30.8#



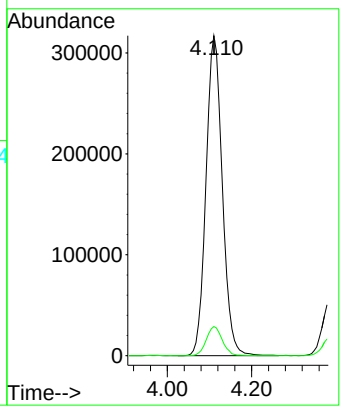


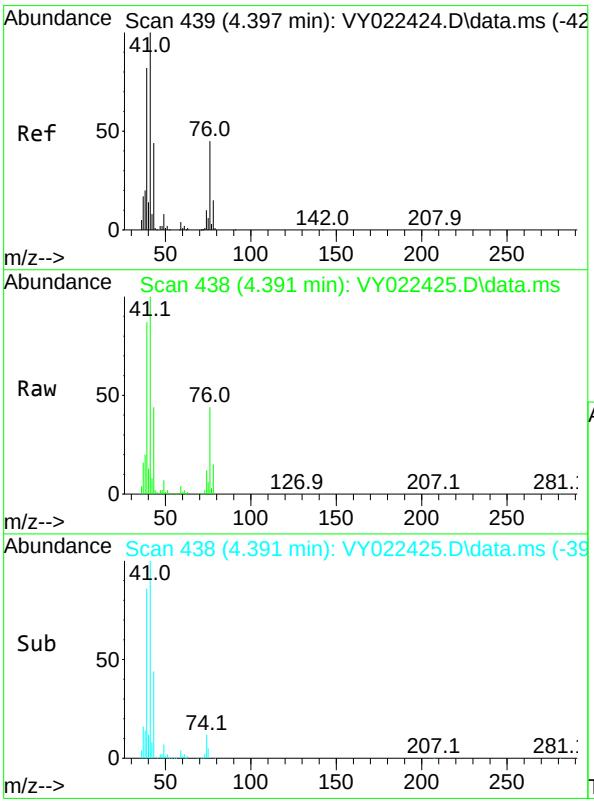
#17
Carbon Disulfide
Concen: 100.043 ug/l
RT: 4.110 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 76 Resp: 851273

Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.2	10.8

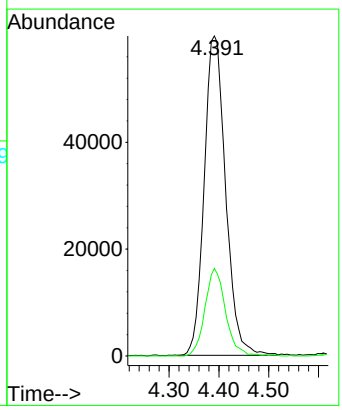


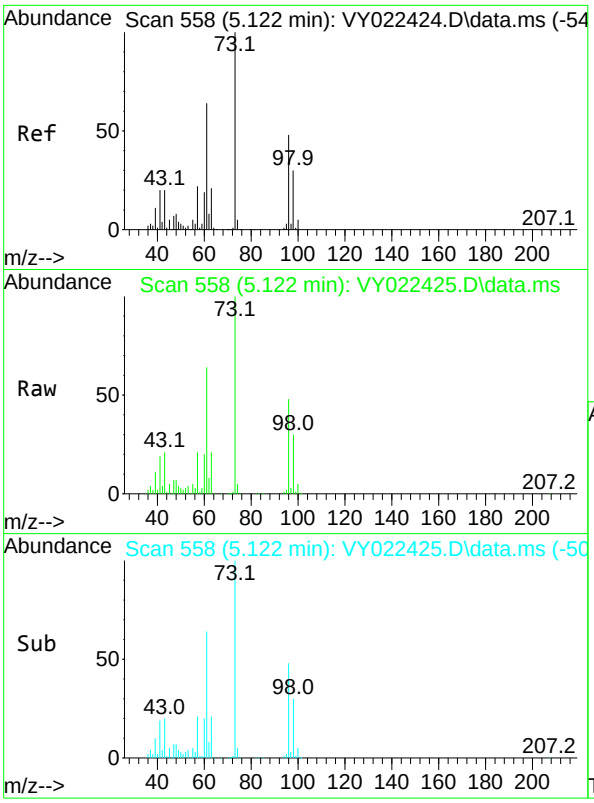


#18
Methyl Acetate
Concen: 108.317 ug/l
RT: 4.391 min Scan# 438
Delta R.T. -0.006 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 43 Resp: 178729

Ion	Ratio	Lower	Upper
43	100		
74	26.3	21.2	31.8



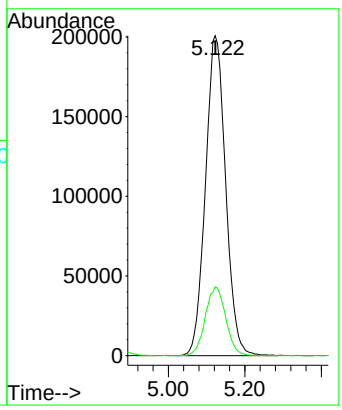


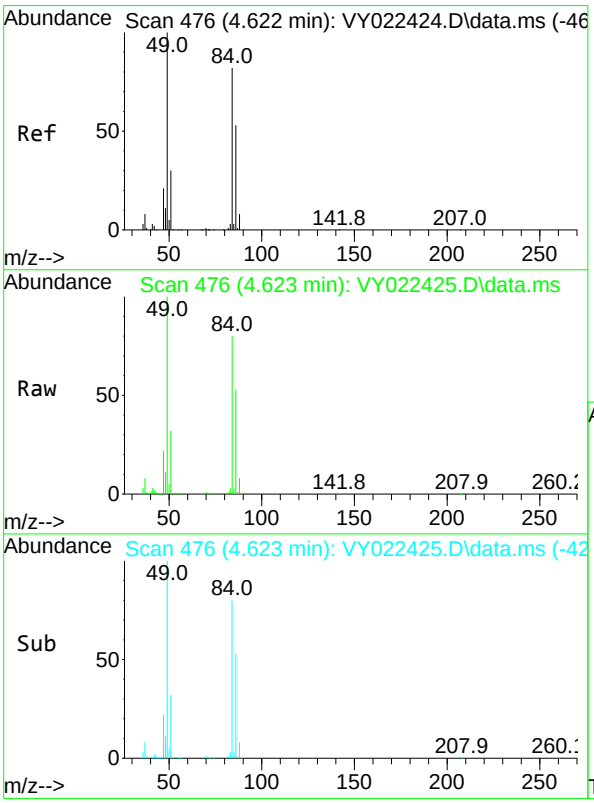
#19
Methyl tert-butyl Ether
Concen: 103.886 ug/l
RT: 5.122 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 73 Resp: 735411

Ion	Ratio	Lower	Upper
73	100		
57	21.5	17.7	26.5

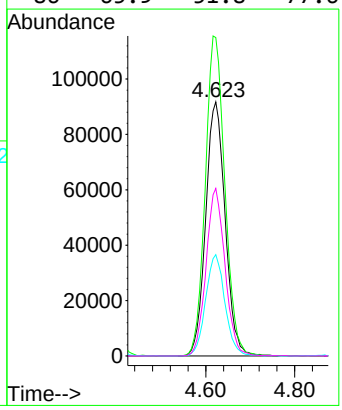


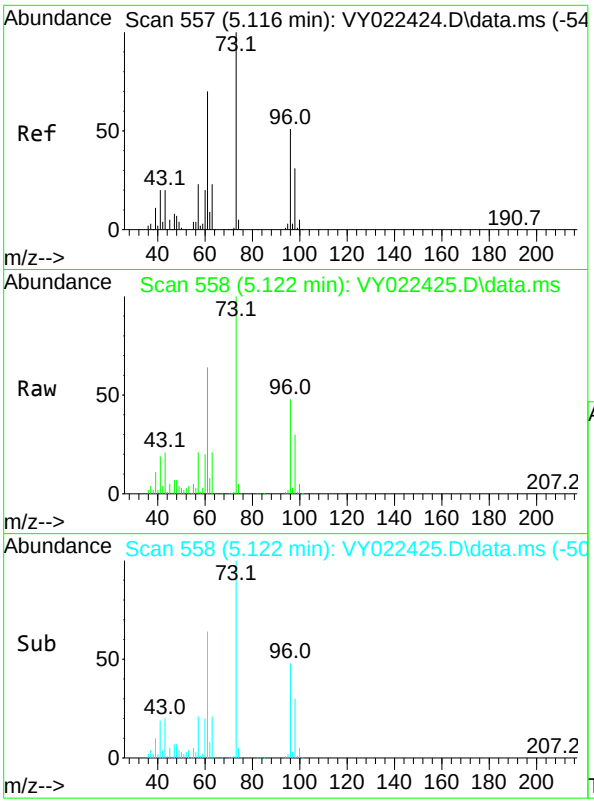


#20
Methylene Chloride
Concen: 89.995 ug/l
RT: 4.623 min Scan# 476
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 84 Resp: 279934

Ion	Ratio	Lower	Upper
84	100		
49	125.3	97.8	146.8
51	39.9	29.5	44.3
86	65.9	51.8	77.6



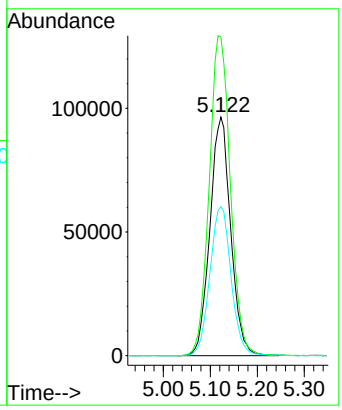


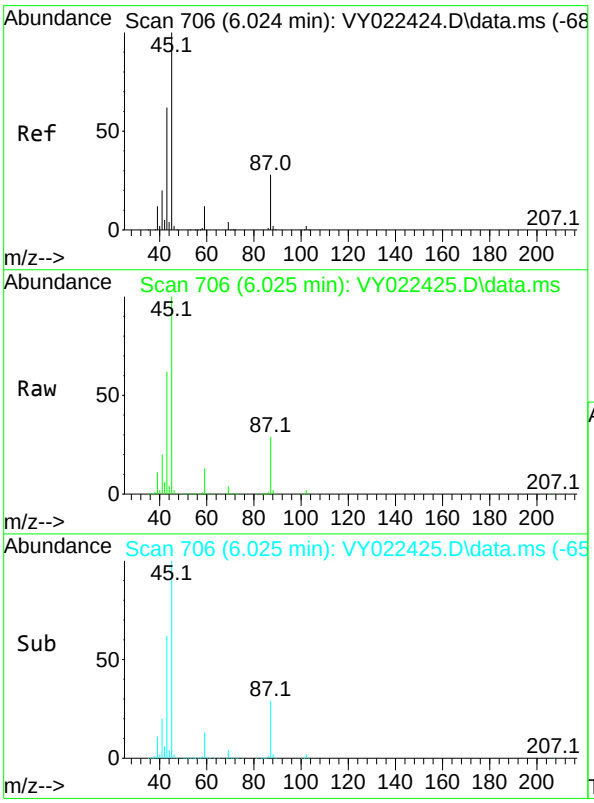
#21
trans-1,2-Dichloroethene
Concen: 101.801 ug/l
RT: 5.122 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 96 Resp: 296339

Ion	Ratio	Lower	Upper
96	100		
61	133.6	110.4	165.6
98	62.4	48.6	73.0

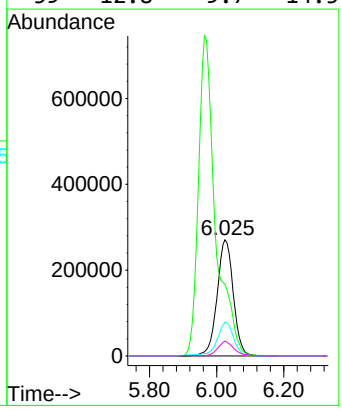


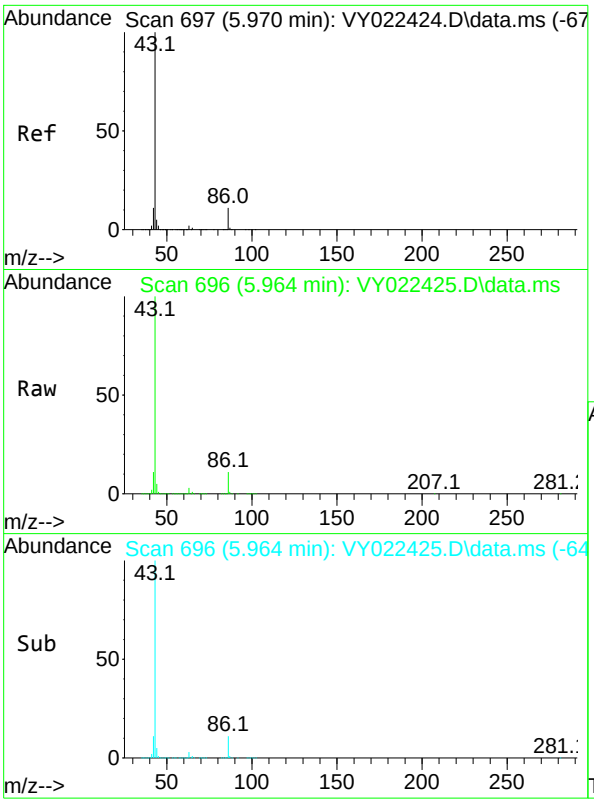


#22
Diisopropyl ether
Concen: 102.415 ug/l
RT: 6.025 min Scan# 706
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 45 Resp: 906611

Ion	Ratio	Lower	Upper
45	100		
43	61.7	49.8	74.8
87	29.2	23.0	34.6
59	12.8	9.7	14.5



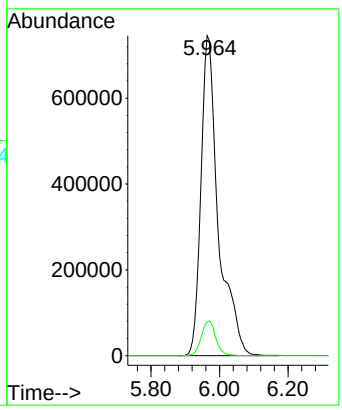


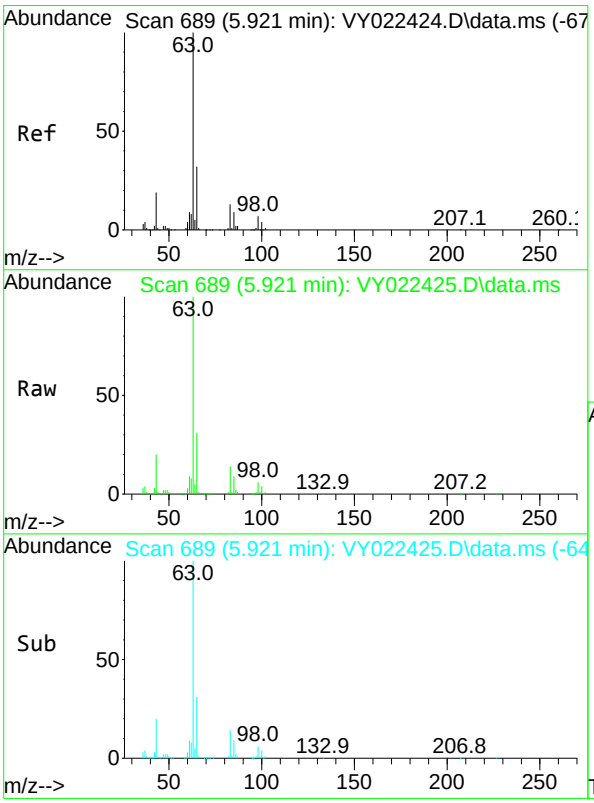
#23
Vinyl Acetate
Concen: 518.224 ug/l
RT: 5.964 min Scan# 6
Delta R.T. -0.006 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 2634055

Ion	Ratio	Lower	Upper
43	100		
86	10.6	8.8	13.2

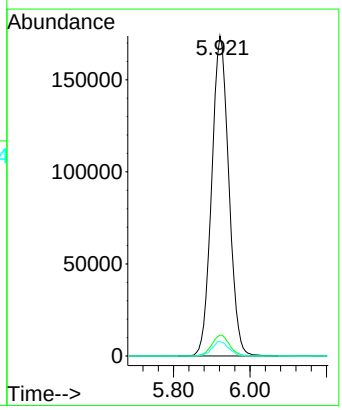


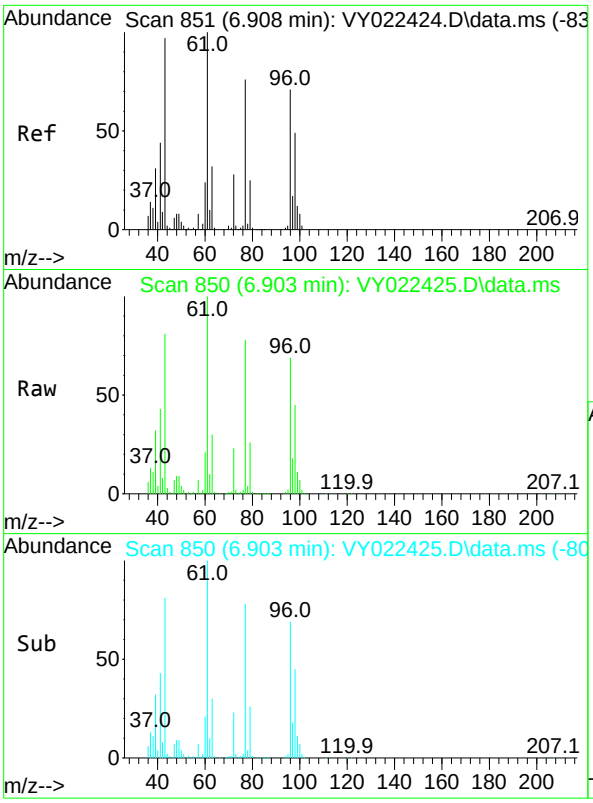


#24
1,1-Dichloroethane
Concen: 103.372 ug/l
RT: 5.921 min Scan# 689
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 63 Resp: 540724

Ion	Ratio	Lower	Upper
63	100		
98	6.5	3.5	10.5
100	4.5	2.1	6.5



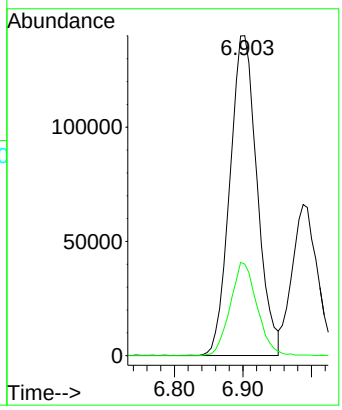


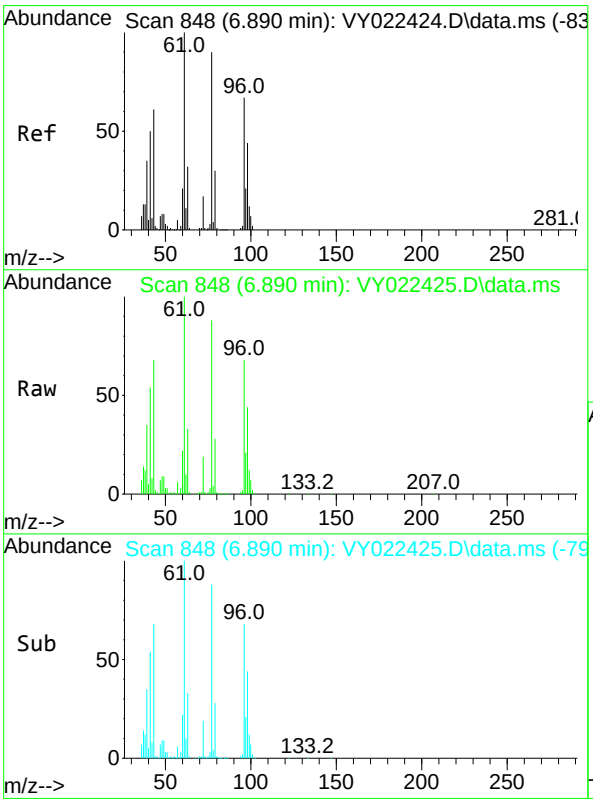
#25
2-Butanone
Concen: 527.215 ug/l
RT: 6.903 min Scan# 8
Delta R.T. -0.006 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 386768

Ion	Ratio	Lower	Upper
43	100		
72	28.6	22.8	34.2

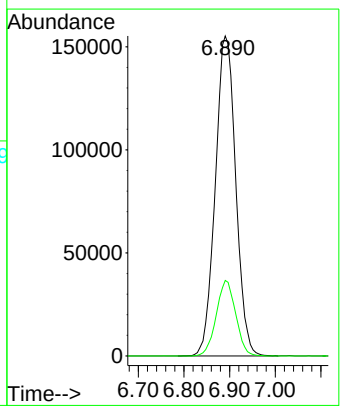


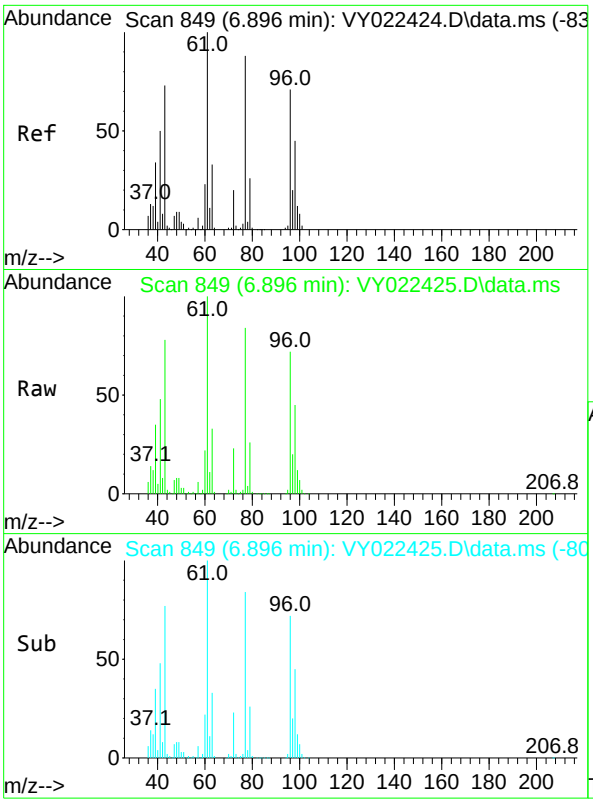


#26
2,2-Dichloropropane
Concen: 101.829 ug/l
RT: 6.890 min Scan# 848
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 77 Resp: 482308

Ion	Ratio	Lower	Upper
77	100		
97	22.4	11.6	34.7



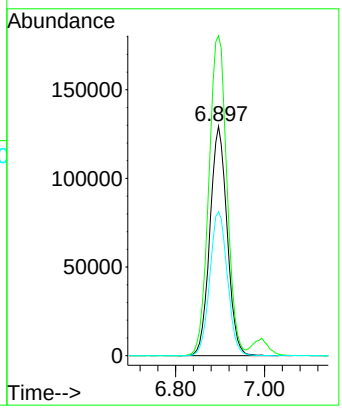


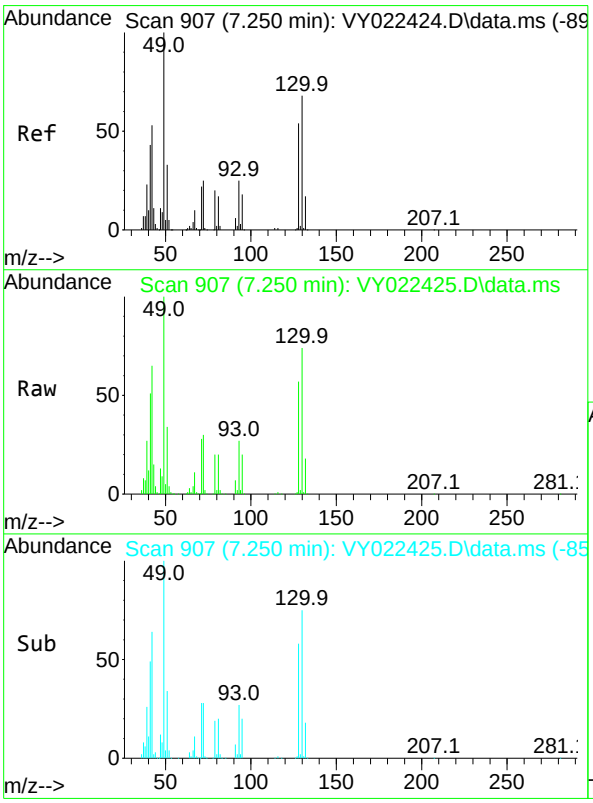
#27
cis-1,2-Dichloroethene
Concen: 103.273 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 96 Resp: 348023

Ion	Ratio	Lower	Upper
96	100		
61	146.3	0.0	292.0
98	64.4	0.0	131.0

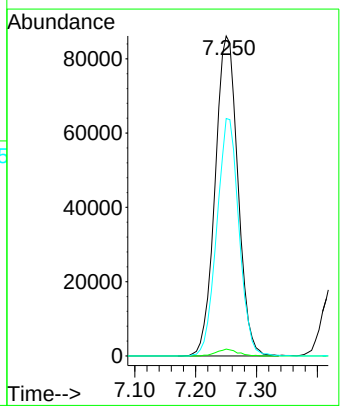


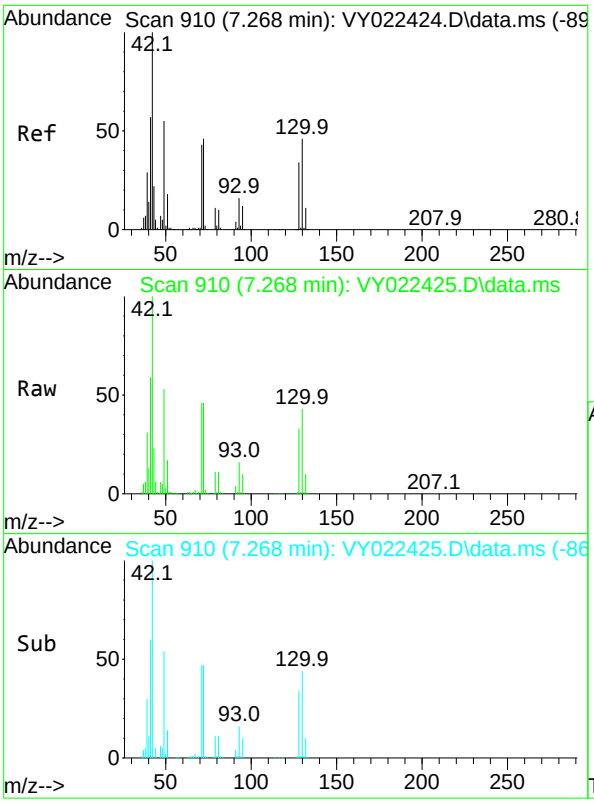


#28
Bromochloromethane
Concen: 102.322 ug/l
RT: 7.250 min Scan# 907
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 49 Resp: 223498

Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	4.0
130	72.3	56.9	85.3



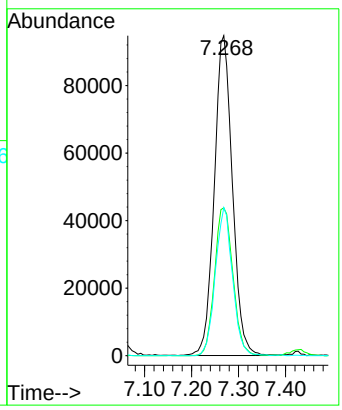


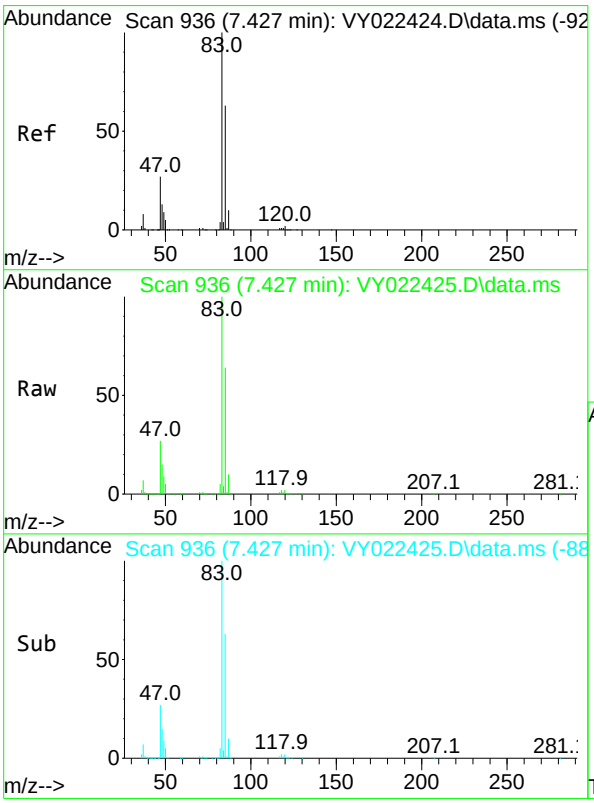
#29
Tetrahydrofuran
Concen: 519.309 ug/l
RT: 7.268 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 42 Resp: 254076

Ion	Ratio	Lower	Upper
42	100		
72	46.9	37.7	56.5
71	43.9	34.7	52.1

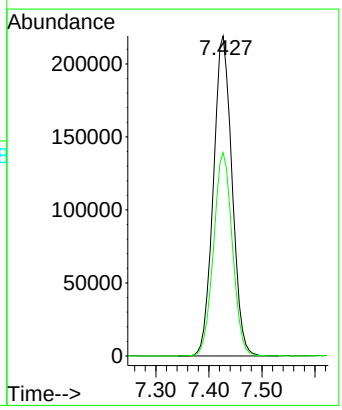


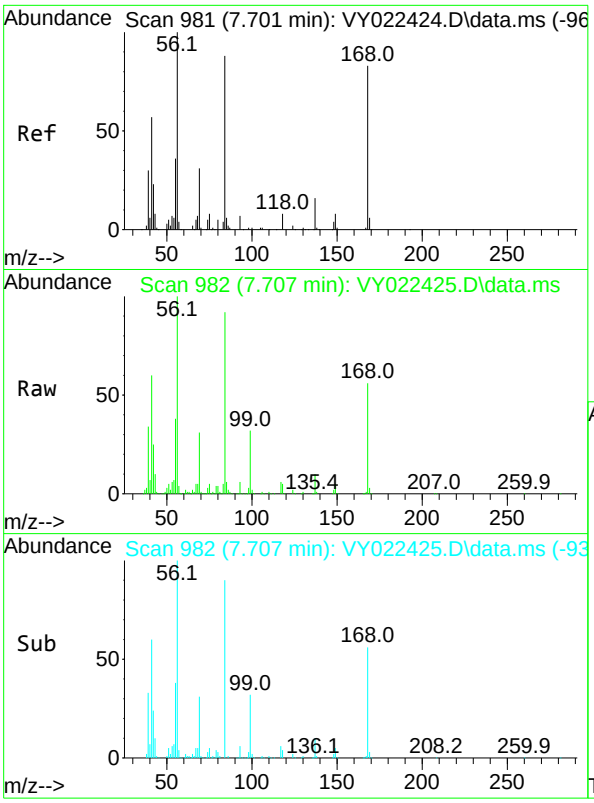


#30
Chloroform
Concen: 103.866 ug/l
RT: 7.427 min Scan# 936
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 83 Resp: 535360

Ion	Ratio	Lower	Upper
83	100		
85	63.5	50.1	75.1



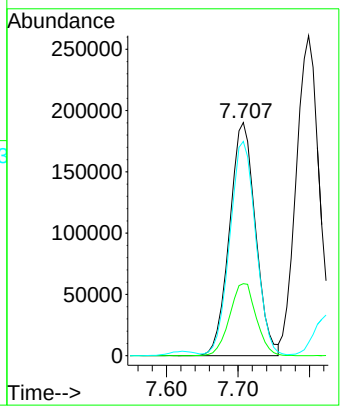


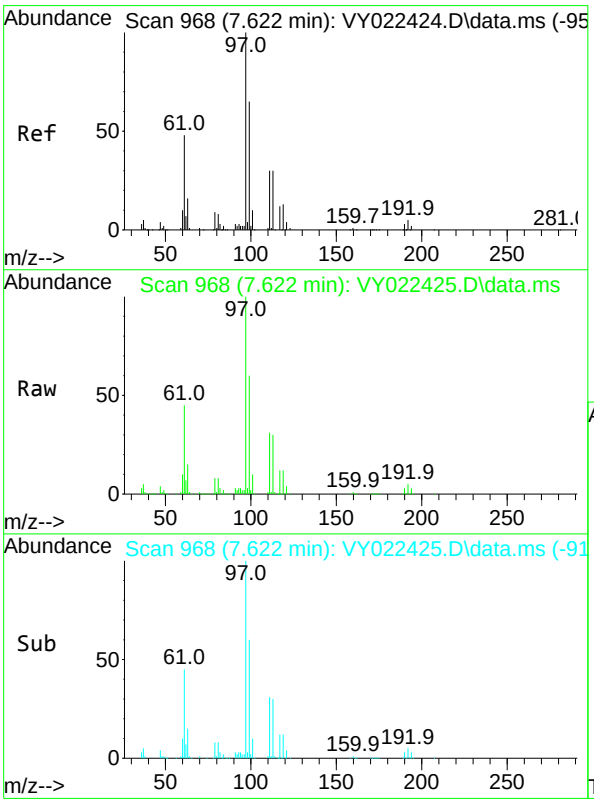
#31
Cyclohexane
Concen: 93.445 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 56 Resp: 481828

Ion	Ratio	Lower	Upper
56	100		
69	30.9	24.6	36.8
84	90.3	70.4	105.6

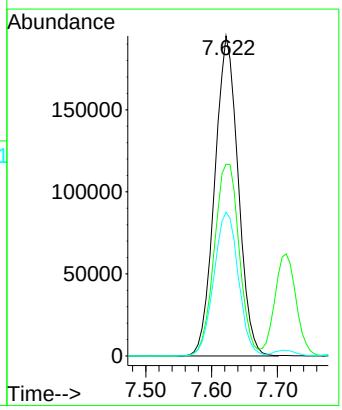


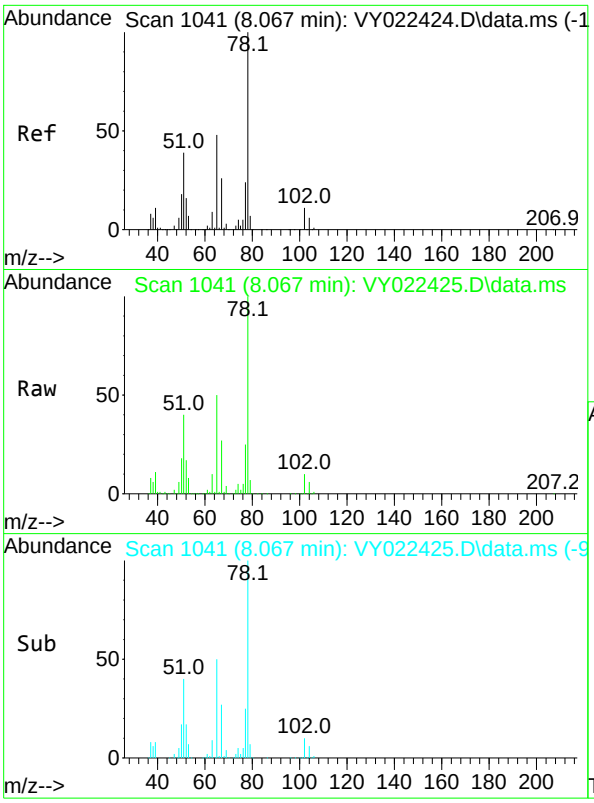


#32
1,1,1-Trichloroethane
Concen: 103.605 ug/l
RT: 7.622 min Scan# 968
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 97 Resp: 484647

Ion	Ratio	Lower	Upper
97	100		
99	63.7	51.3	76.9
61	47.0	37.3	55.9



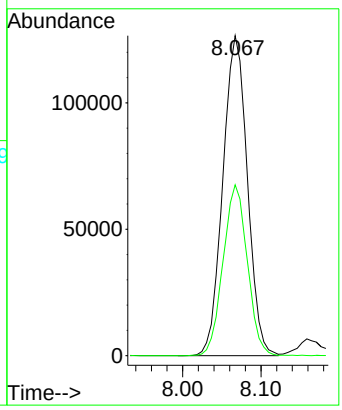


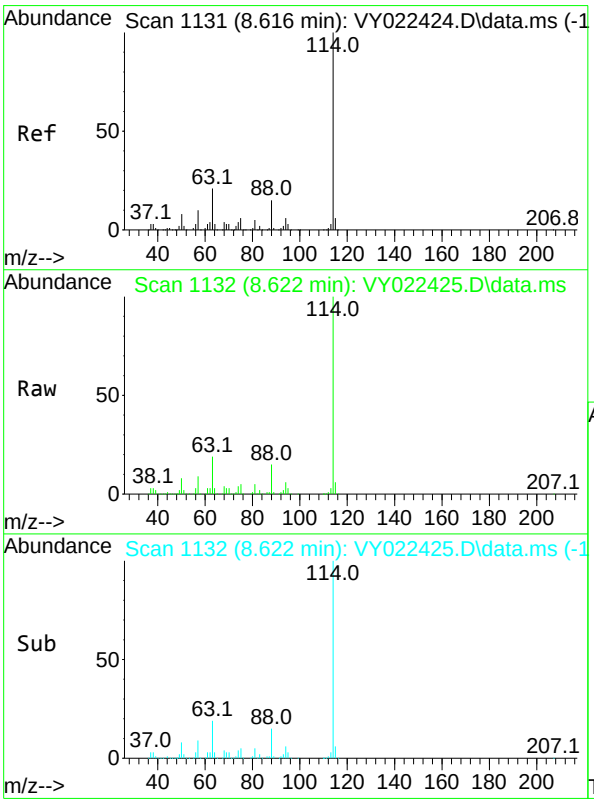
#33
1,2-Dichloroethane-d4
Concen: 102.746 ug/l
RT: 8.067 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 65 Resp: 275425

Ion	Ratio	Lower	Upper
65	100		
67	52.8	0.0	104.4

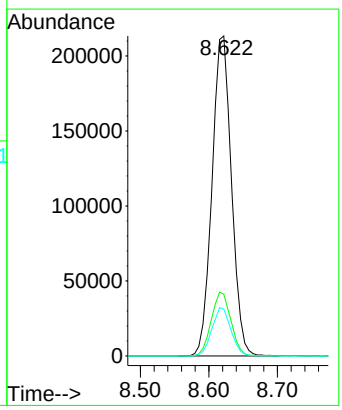


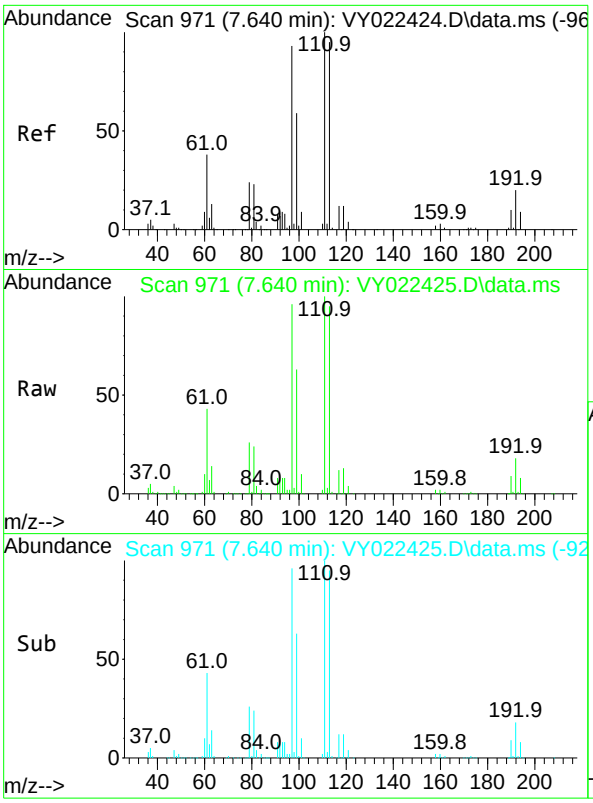


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.622 min Scan# 1132
Delta R.T. 0.006 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion:114 Resp: 420045

Ion	Ratio	Lower	Upper
114	100		
63	19.3	0.0	42.6
88	14.6	0.0	29.4



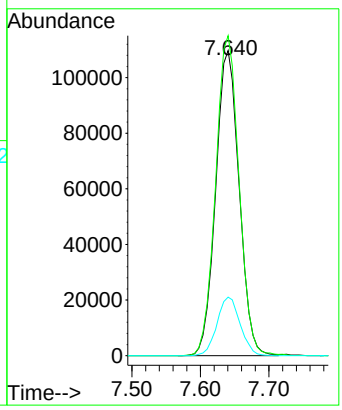


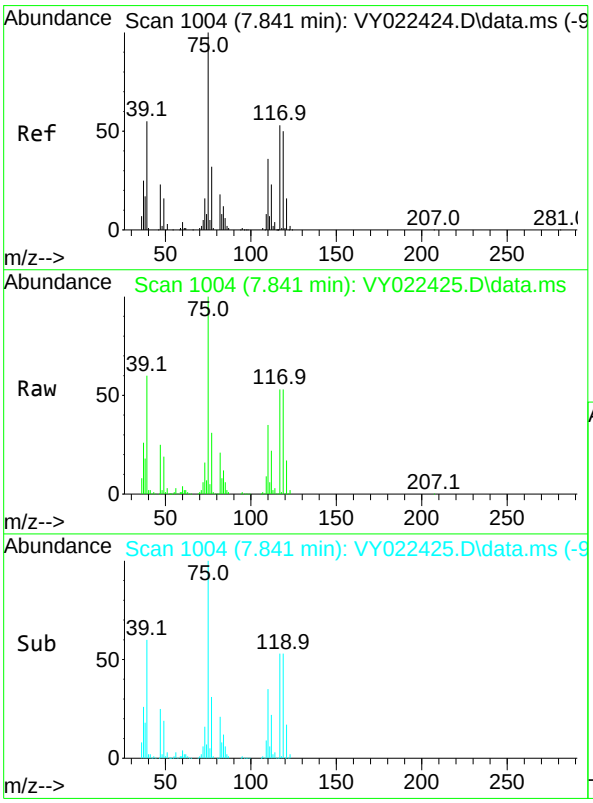
#35
Dibromofluoromethane
Concen: 105.646 ug/l
RT: 7.640 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion:113 Resp: 259880

Ion	Ratio	Lower	Upper
113	100		
111	104.8	82.4	123.6
192	19.0	15.2	22.8

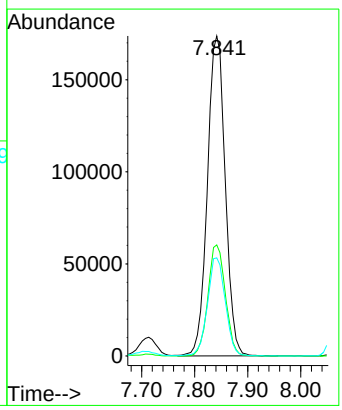


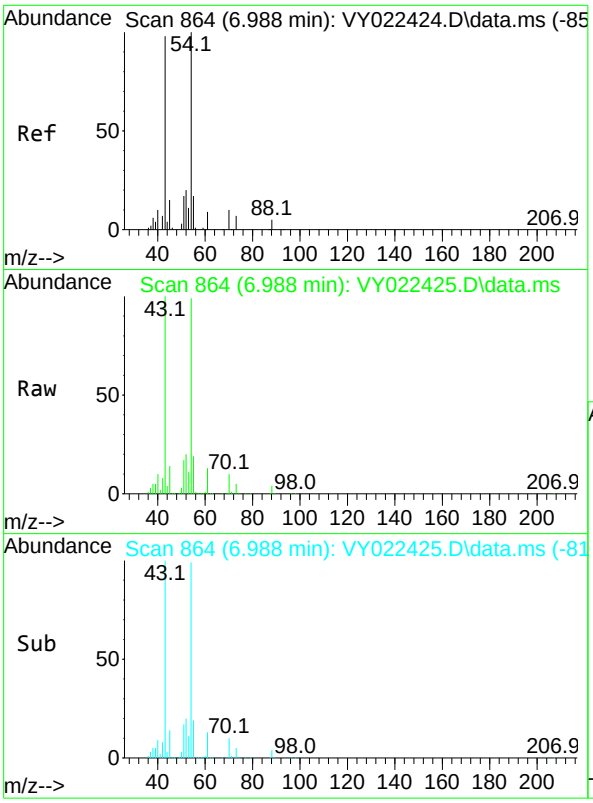


#36
1,1-Dichloropropene
Concen: 103.896 ug/l
RT: 7.841 min Scan# 1004
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 75 Resp: 405555

Ion	Ratio	Lower	Upper
75	100		
110	34.1	17.1	51.2
77	30.8	25.1	37.7



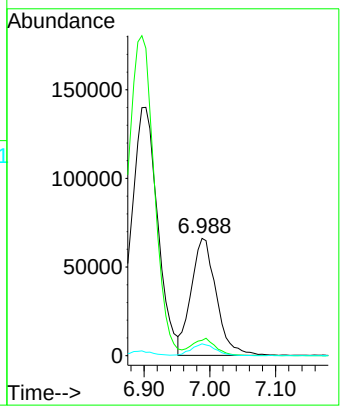


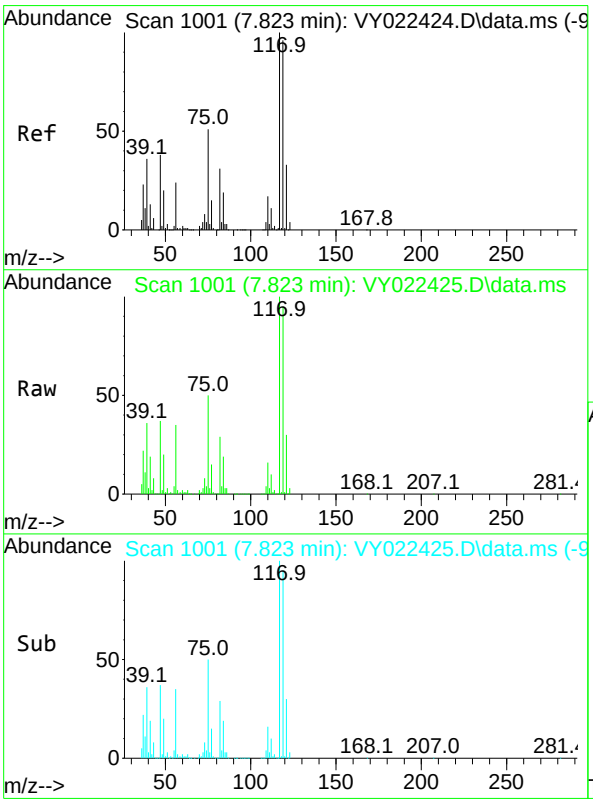
#37
Ethyl Acetate
Concen: 105.171 ug/l
RT: 6.988 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 174471

Ion	Ratio	Lower	Upper
43	100		
61	13.9	11.7	17.5
70	9.8	7.8	11.6

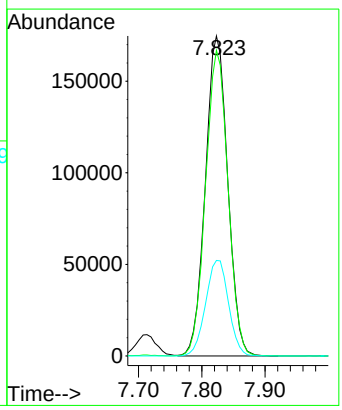


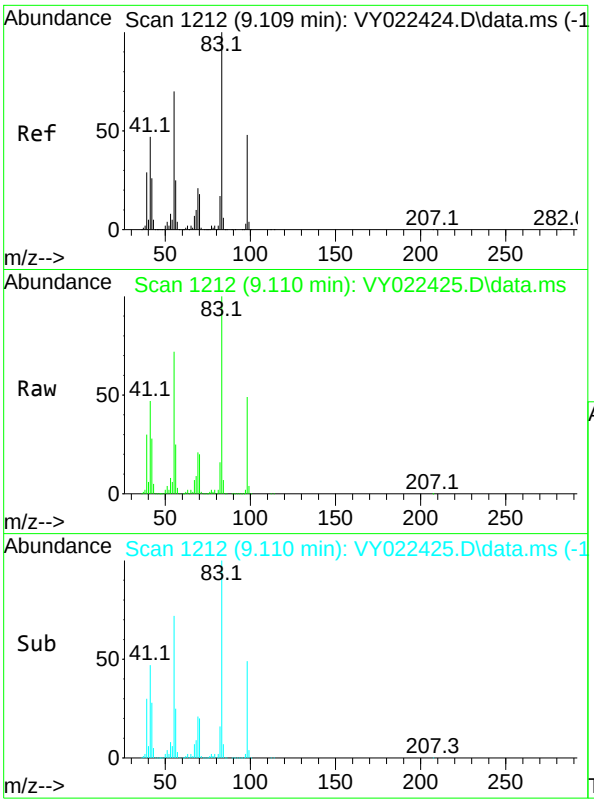


#38
Carbon Tetrachloride
Concen: 105.456 ug/l
RT: 7.823 min Scan# 1001
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion:117 Resp: 428817

Ion	Ratio	Lower	Upper
117	100		
119	95.4	76.3	114.5
121	29.9	26.1	39.1



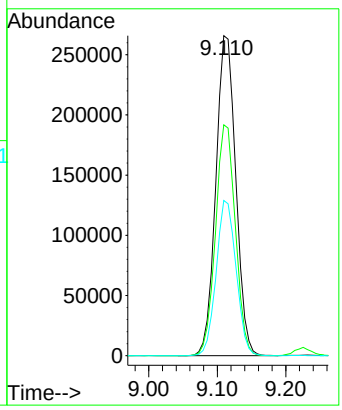


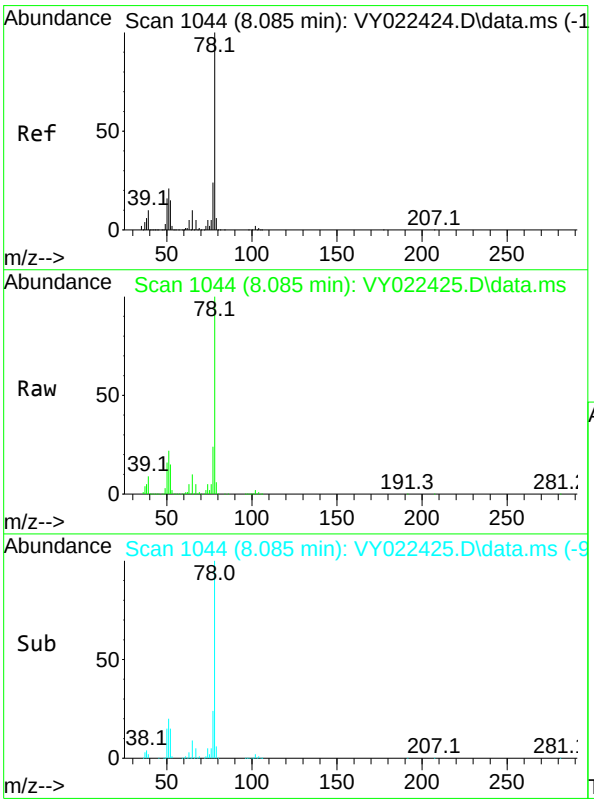
#39
Methylcyclohexane
Concen: 103.329 ug/l
RT: 9.110 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 83 Resp: 536153

Ion	Ratio	Lower	Upper
83	100		
55	72.2	56.2	84.2
98	48.5	38.4	57.6

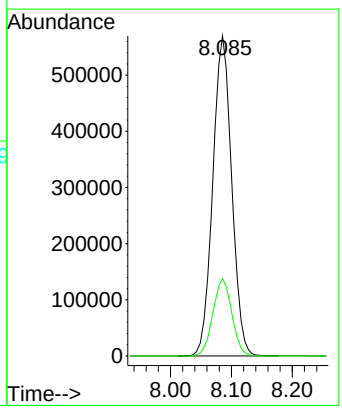


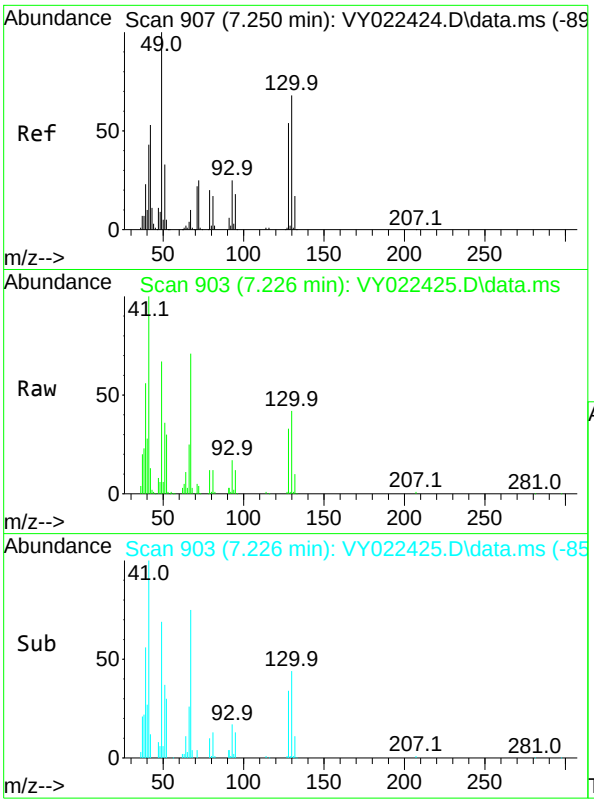


#40
Benzene
Concen: 105.848 ug/l
RT: 8.085 min Scan# 1044
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 78 Resp: 1229435

Ion	Ratio	Lower	Upper
78	100		
77	24.2	19.4	29.2



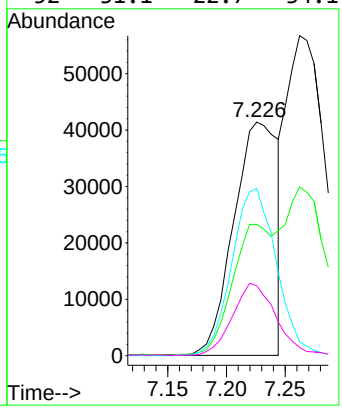


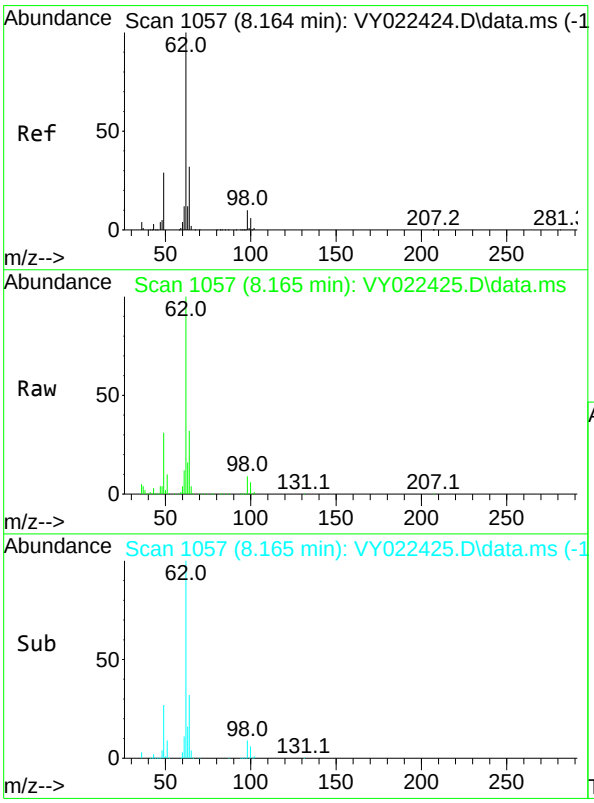
#41
Methacrylonitrile
Concen: 106.675 ug/l
RT: 7.226 min Scan# 9
Delta R.T. -0.024 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 41 Resp: 107407

Ion	Ratio	Lower	Upper
41	100		
39	49.4	40.4	60.6
67	73.1	53.0	79.4
52	31.1	22.7	34.1

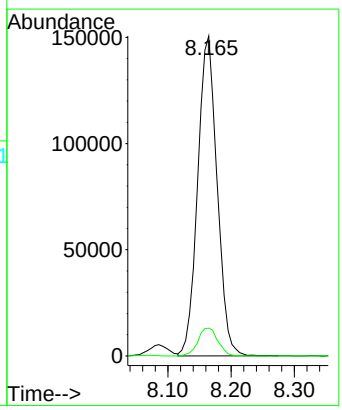


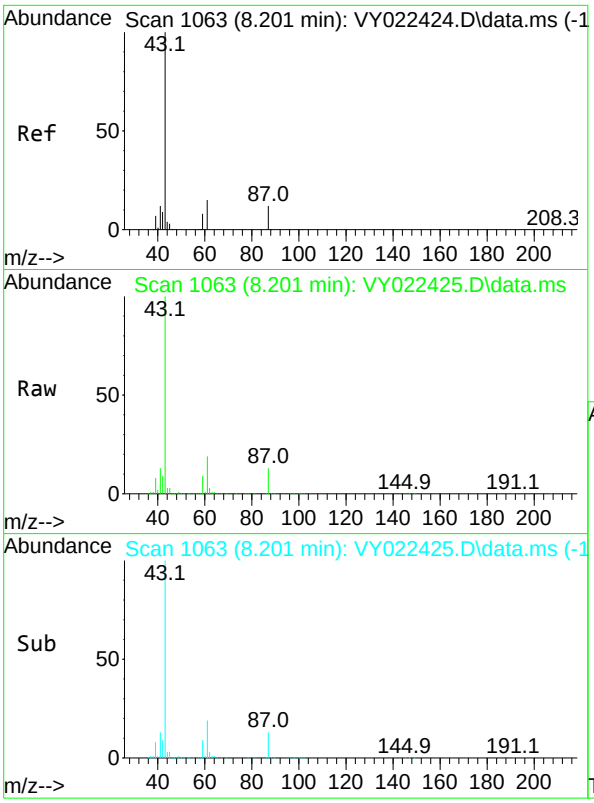


#42
1,2-Dichloroethane
Concen: 104.887 ug/l
RT: 8.165 min Scan# 1057
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 62 Resp: 321758

Ion	Ratio	Lower	Upper
62	100		
98	9.0	0.0	18.4



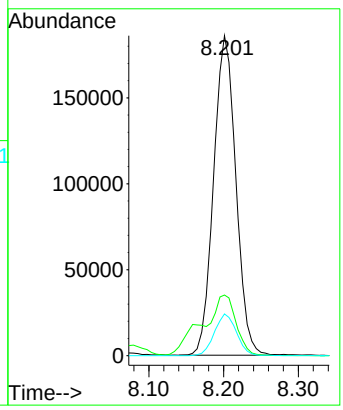


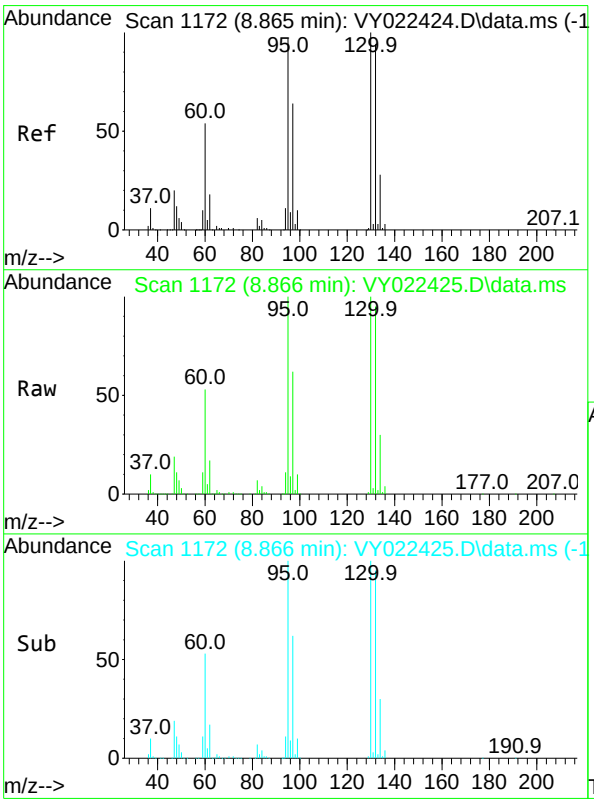
#43
Isopropyl Acetate
Concen: 106.287 ug/l
RT: 8.201 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 385296

Ion	Ratio	Lower	Upper
43	100		
61	19.2	15.4	23.0
87	13.0	10.6	15.8

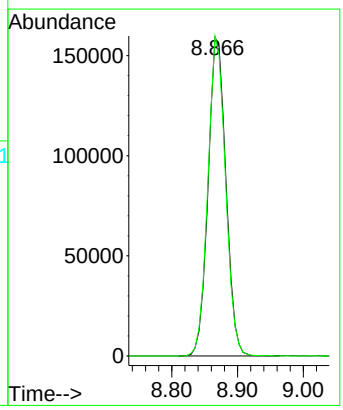


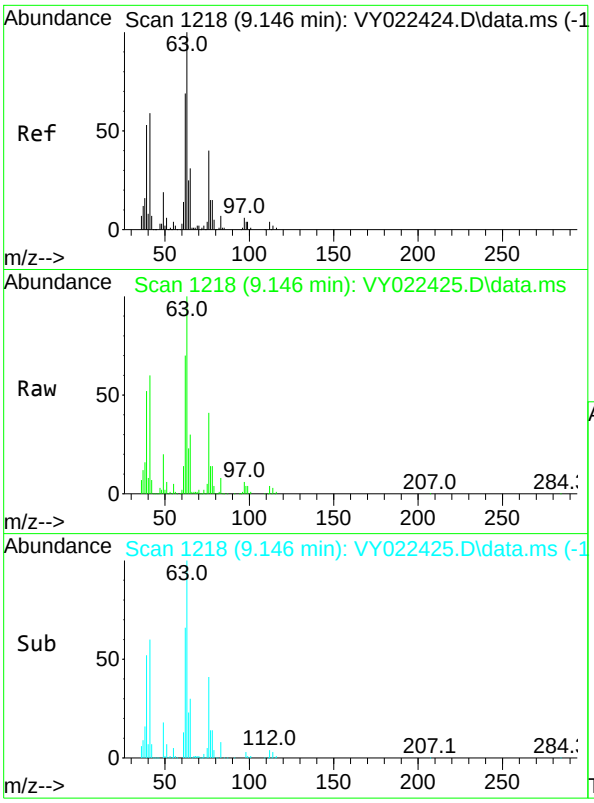


#44
Trichloroethene
Concen: 104.583 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion:130 Resp: 300293

Ion	Ratio	Lower	Upper
130	100		
95	100.4	0.0	194.8



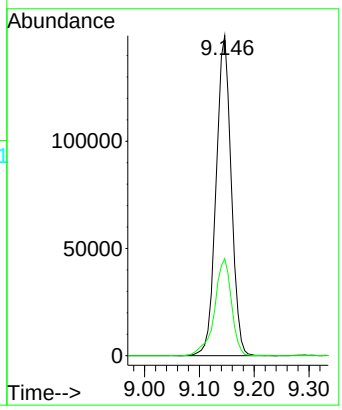


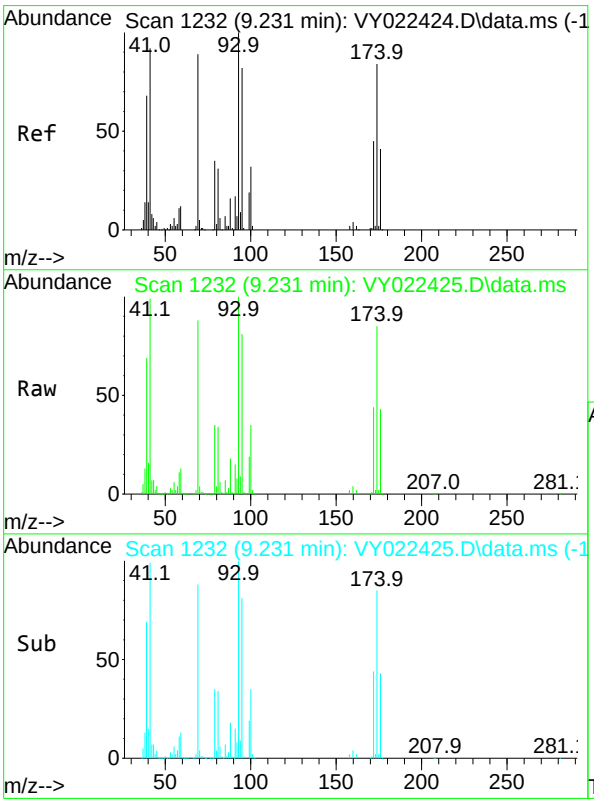
#45
1,2-Dichloropropane
Concen: 105.160 ug/l
RT: 9.146 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 63 Resp: 286982

Ion	Ratio	Lower	Upper
63	100		
65	30.3	25.1	37.7

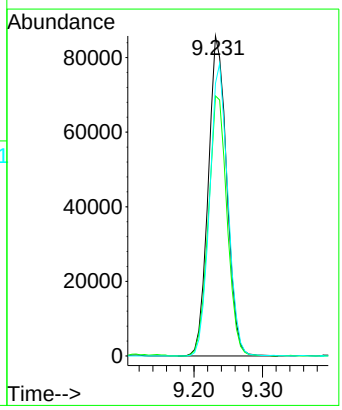


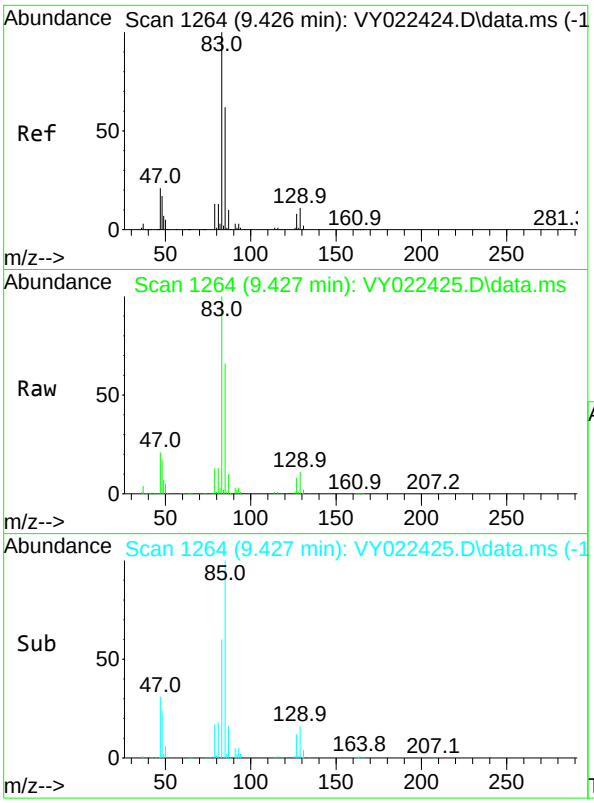


#46
Dibromomethane
Concen: 105.464 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 93 Resp: 160779

Ion	Ratio	Lower	Upper
93	100		
95	81.8	66.2	99.2
174	89.9	71.1	106.7



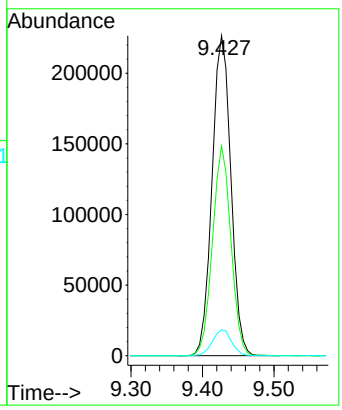


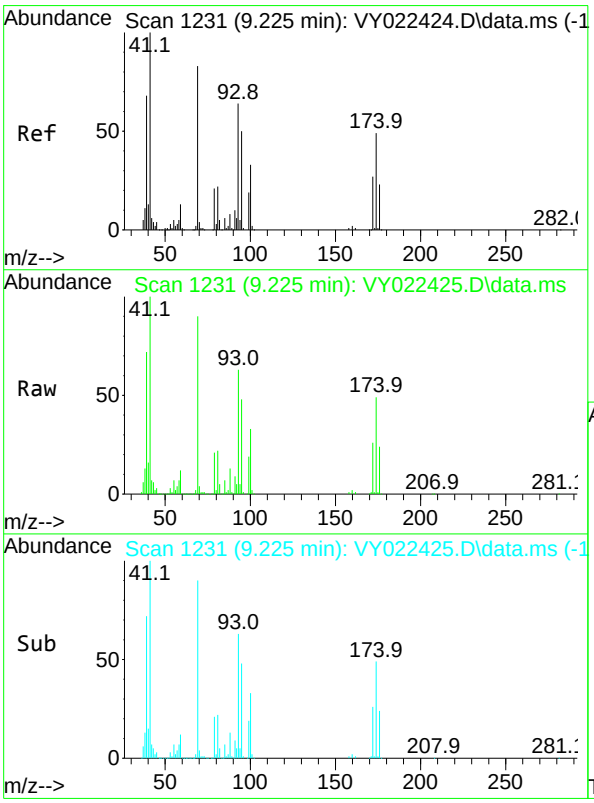
#47
Bromodichloromethane
Concen: 105.558 ug/l
RT: 9.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 83 Resp: 413821

Ion	Ratio	Lower	Upper
83	100		
85	65.6	49.8	74.6
127	8.0	6.6	9.8

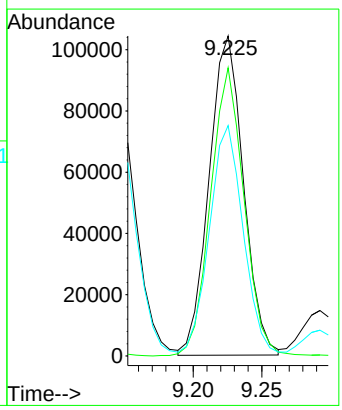


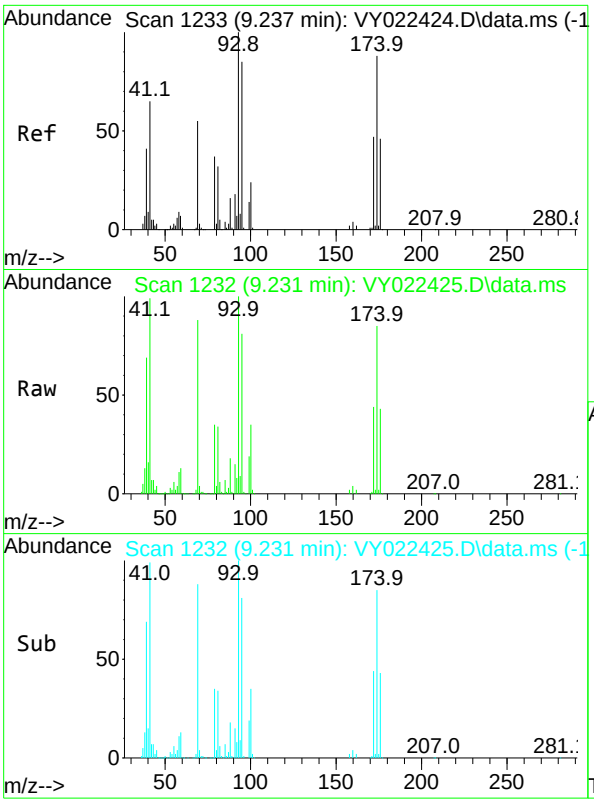


#48
Methyl methacrylate
Concen: 108.116 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 41 Resp: 181931

Ion	Ratio	Lower	Upper
41	100		
69	88.1	70.3	105.5
39	69.0	55.4	83.0



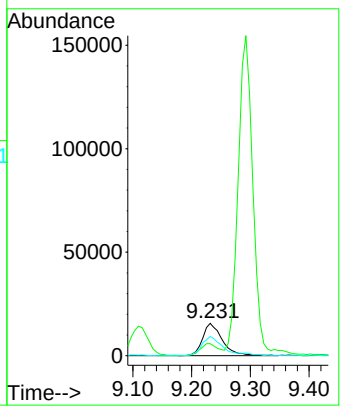


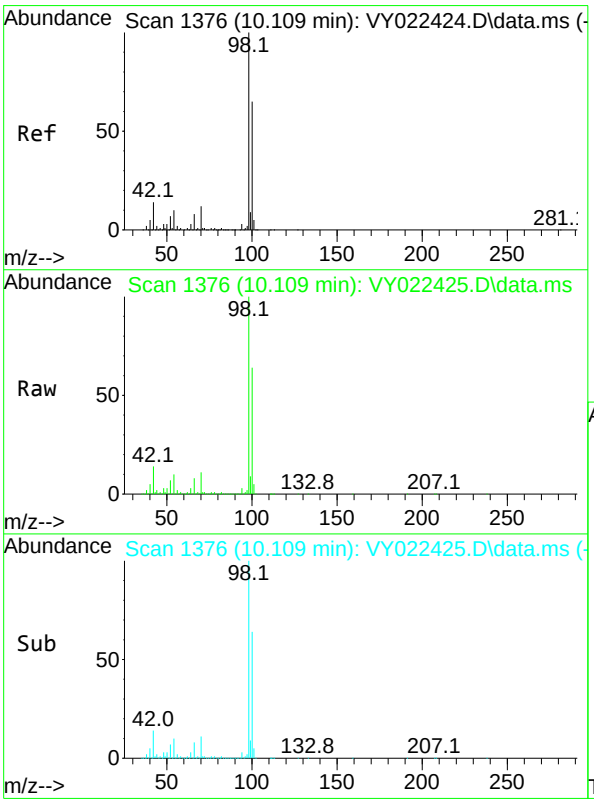
#49
1,4-Dioxane
Concen: 2158.331 ug/l
RT: 9.231 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 88 Resp: 36343

Ion	Ratio	Lower	Upper
88	100		
43	34.2	26.9	40.3
58	65.5	55.8	83.6

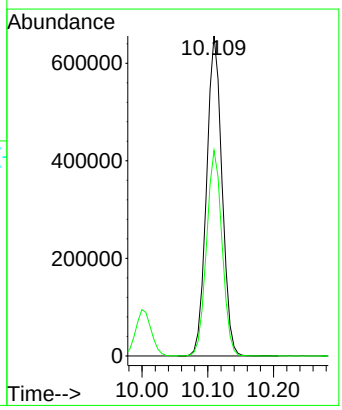


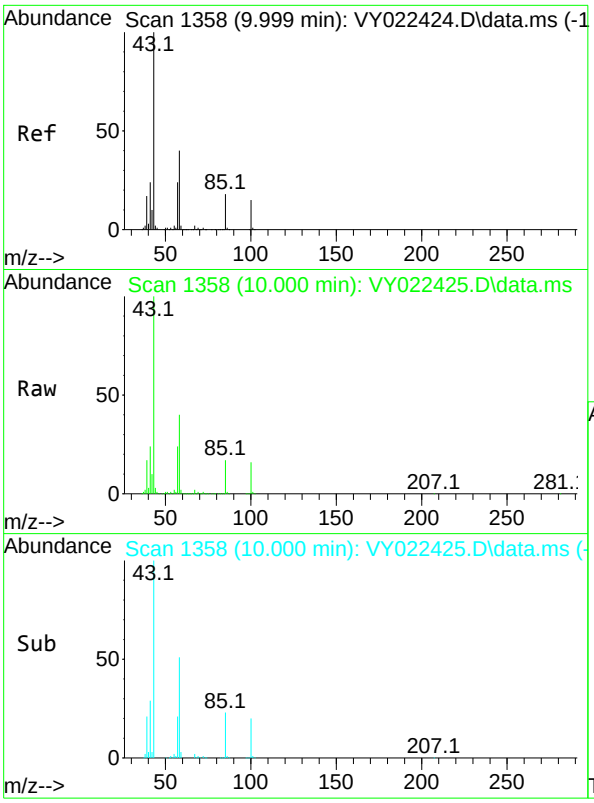


#50
Toluene-d8
Concen: 106.726 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 98 Resp: 1070243

Ion	Ratio	Lower	Upper
98	100		
100	64.5	52.2	78.2



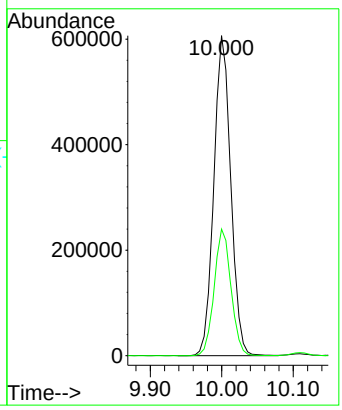


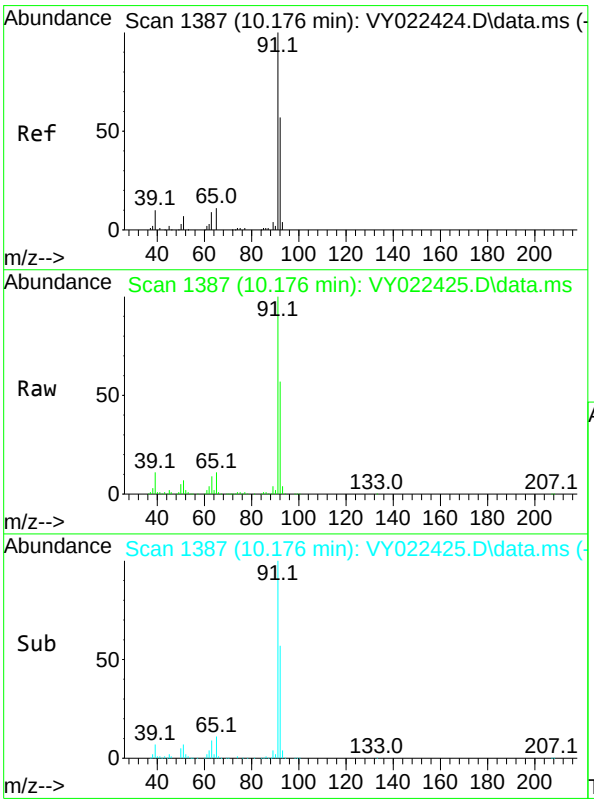
#51
4-Methyl-2-Pentanone
Concen: 556.674 ug/l
RT: 10.000 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 995669

Ion	Ratio	Lower	Upper
43	100		
58	39.4	31.2	46.8

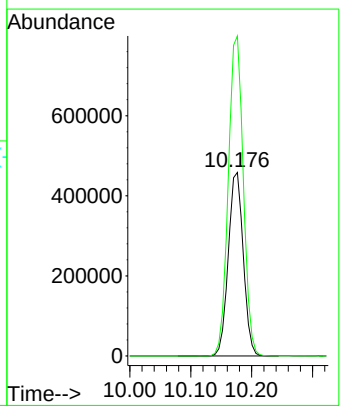


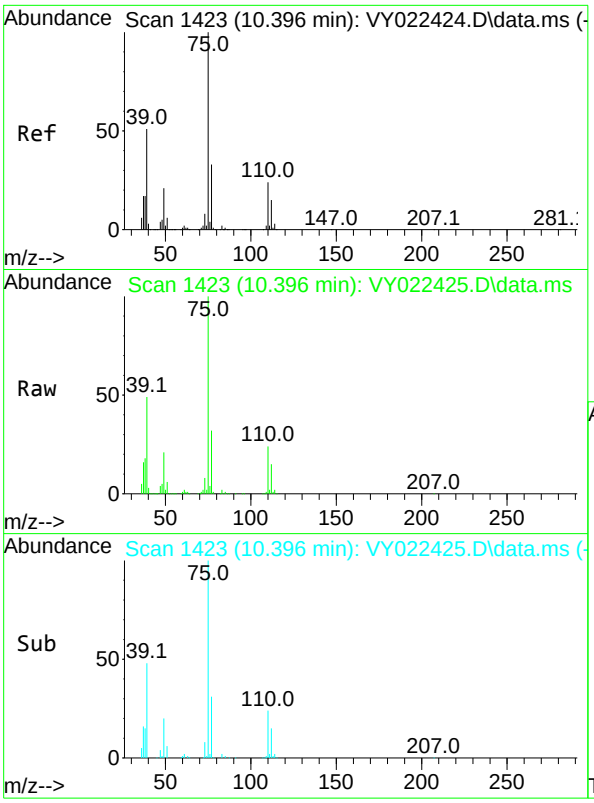


#52
Toluene
Concen: 107.563 ug/l
RT: 10.176 min Scan# 1387
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 92 Resp: 780350

Ion	Ratio	Lower	Upper
92	100		
91	175.4	139.8	209.6



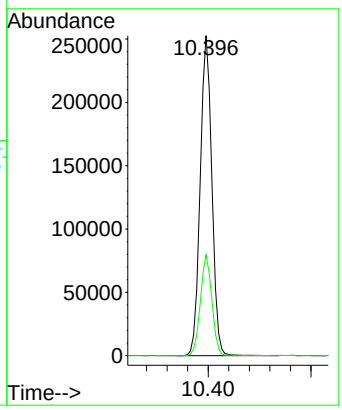


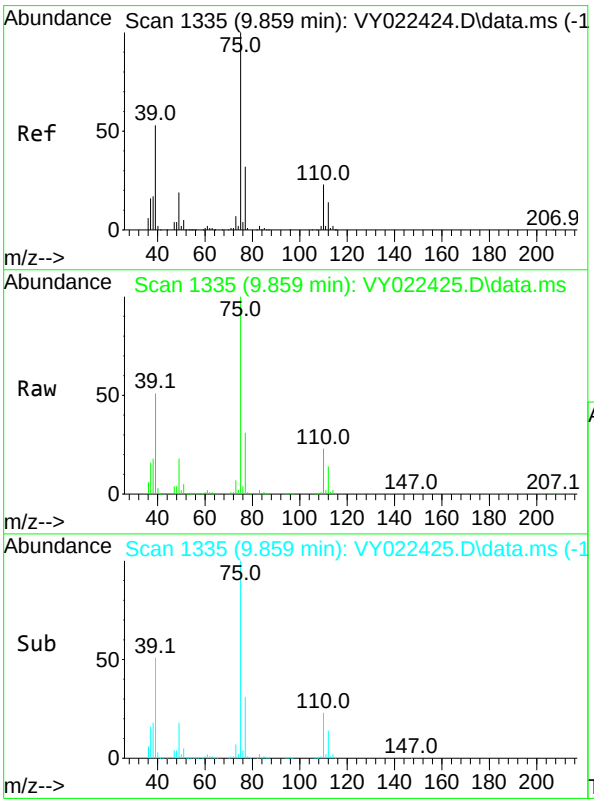
#53
t-1,3-Dichloropropene
Concen: 108.544 ug/l
RT: 10.396 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 75 Resp: 396365

Ion	Ratio	Lower	Upper
75	100		
77	31.6	26.2	39.2

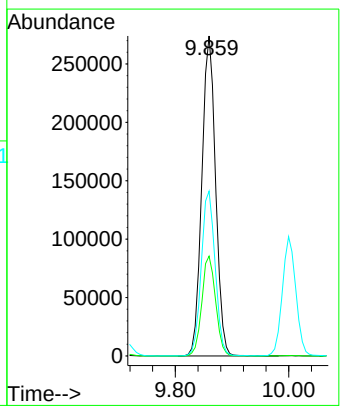


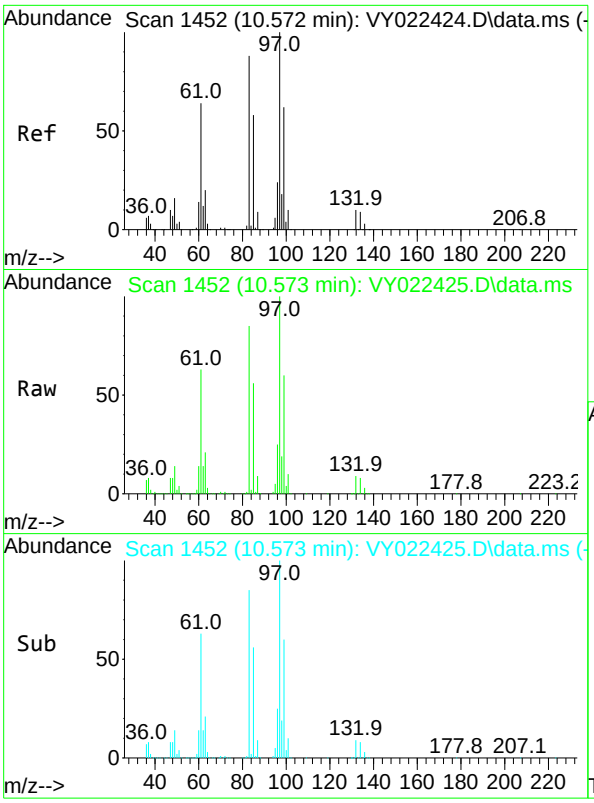


#54
cis-1,3-Dichloropropene
Concen: 107.411 ug/l
RT: 9.859 min Scan# 1335
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 75 Resp: 460876

Ion	Ratio	Lower	Upper
75	100		
77	31.2	25.4	38.2
39	51.4	42.5	63.7



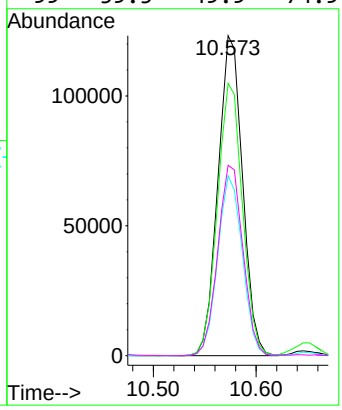


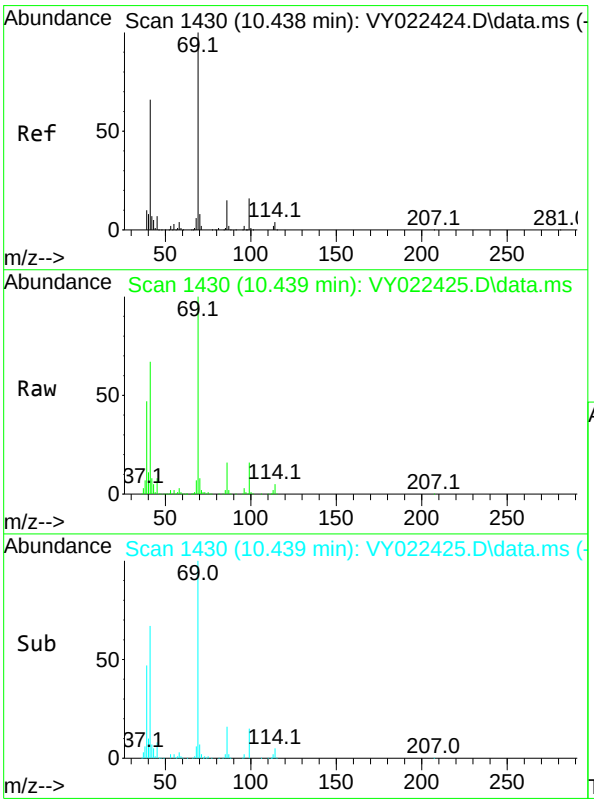
#55
1,1,2-Trichloroethane
Concen: 106.007 ug/l
RT: 10.573 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 97 Resp: 204326

Ion	Ratio	Lower	Upper
97	100		
83	85.1	70.2	105.4
85	56.2	46.1	69.1
99	59.5	49.9	74.9

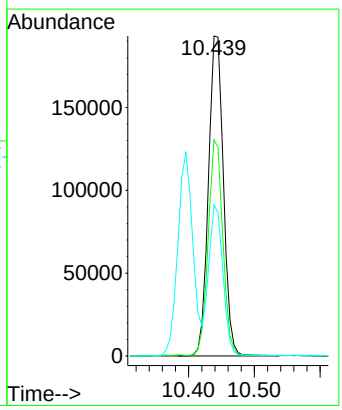


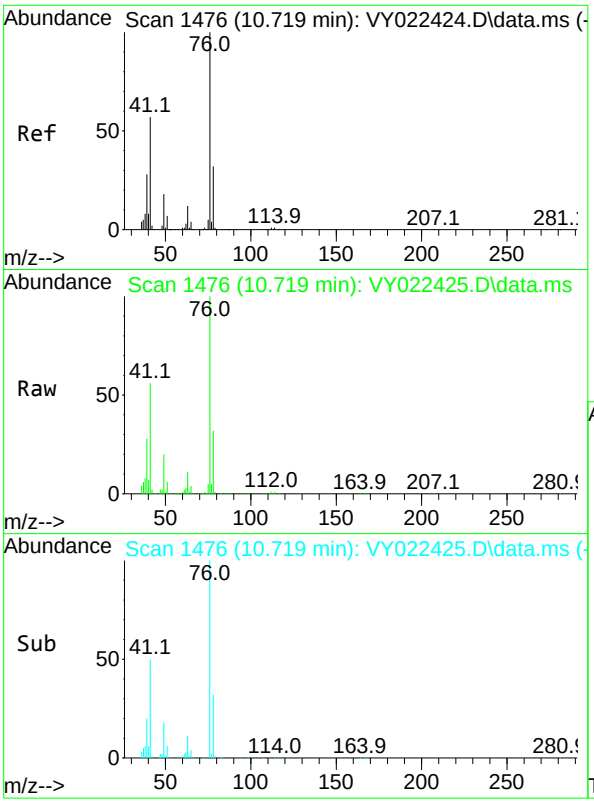


#56
Ethyl methacrylate
Concen: 110.908 ug/l
RT: 10.439 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 69 Resp: 306772

Ion	Ratio	Lower	Upper
69	100		
41	65.8	51.2	76.8
39	44.7	35.2	52.8



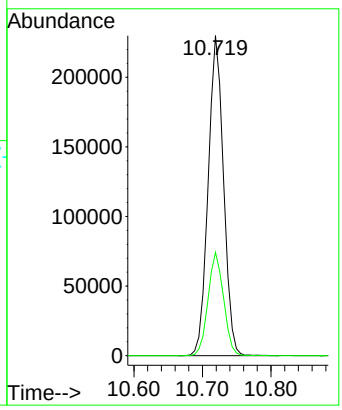


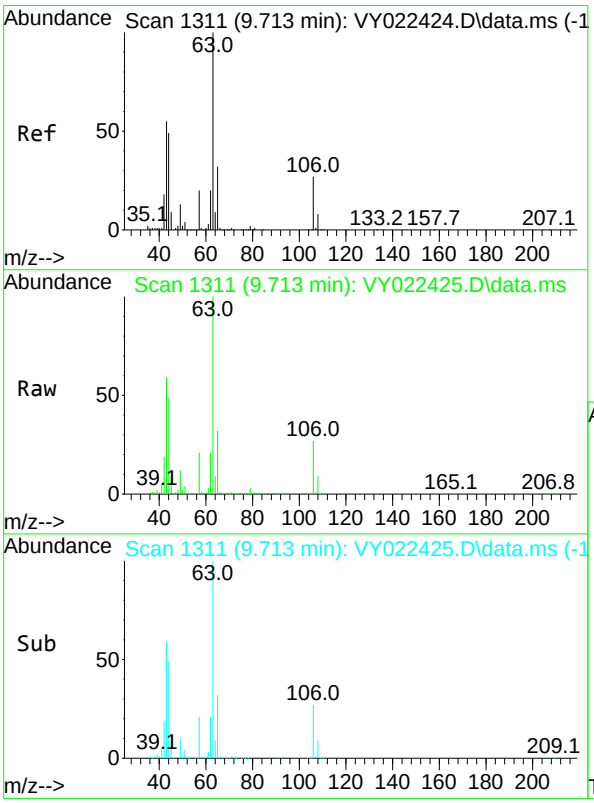
#57
1,3-Dichloropropane
Concen: 105.893 ug/l
RT: 10.719 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 76 Resp: 359684

Ion	Ratio	Lower	Upper
76	100		
78	32.6	25.8	38.8

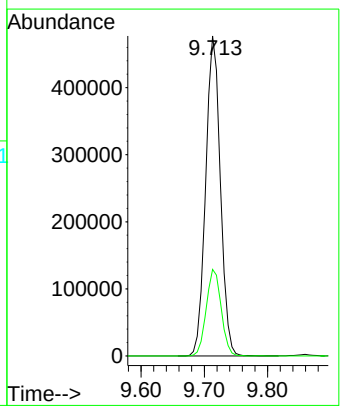


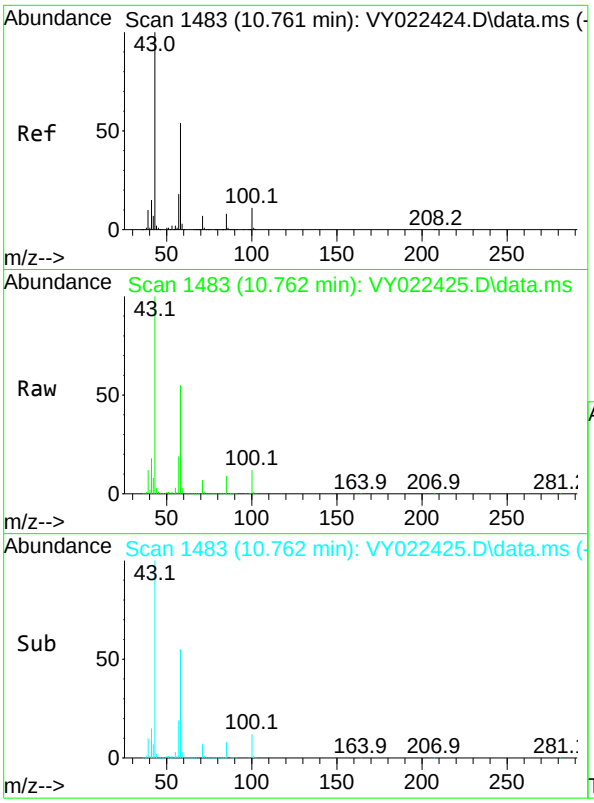


#58
2-Chloroethyl Vinyl ether
Concen: 559.284 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 63 Resp: 770988

Ion	Ratio	Lower	Upper
63	100		
106	27.5	22.2	33.2



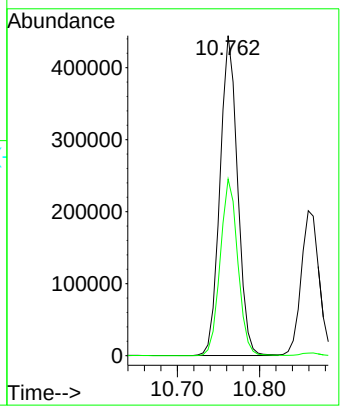


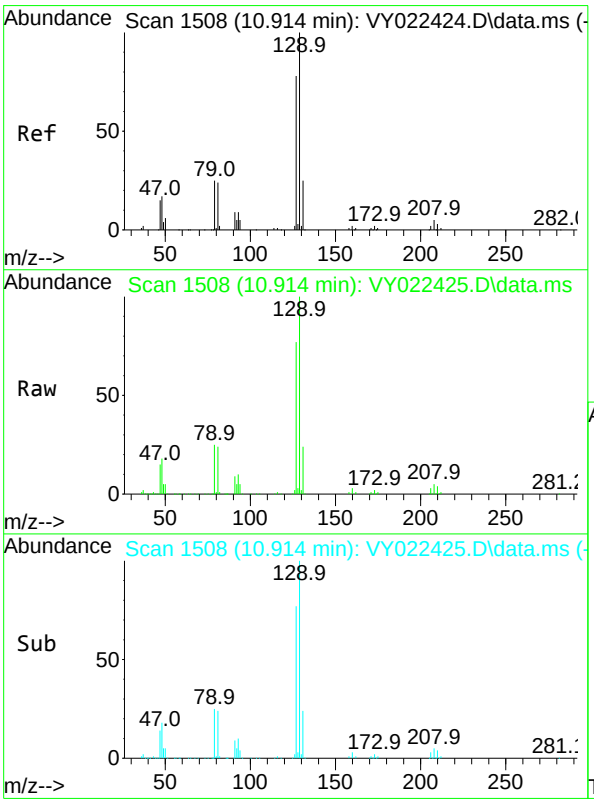
#59
2-Hexanone
Concen: 563.900 ug/l
RT: 10.762 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 660980

Ion	Ratio	Lower	Upper
43	100		
58	55.2	27.1	81.2

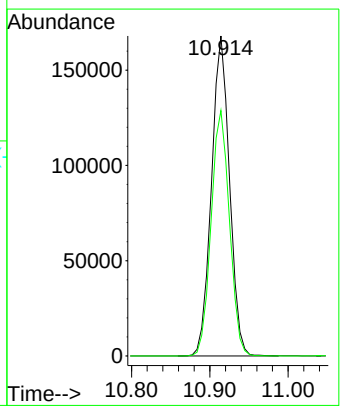


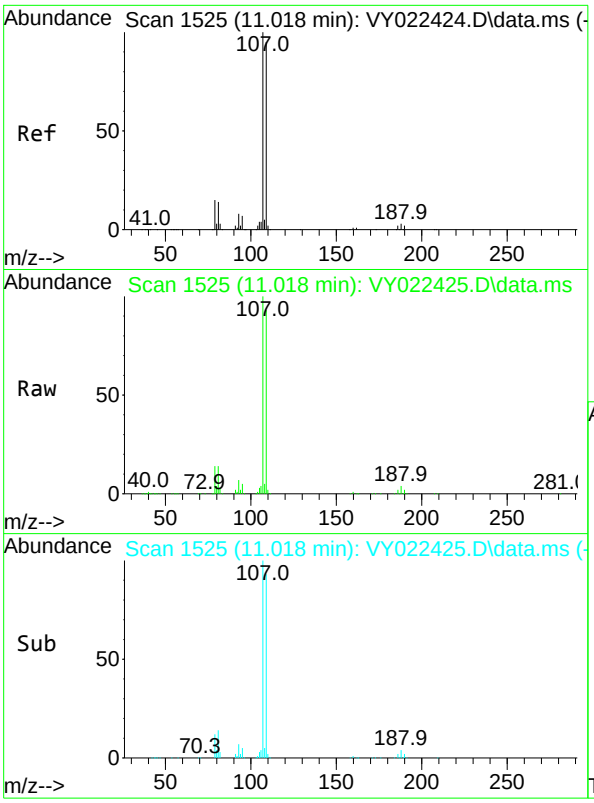


#60
Dibromochloromethane
Concen: 109.221 ug/l
RT: 10.914 min Scan# 1508
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion:129 Resp: 268919

Ion	Ratio	Lower	Upper
129	100		
127	77.7	38.3	114.8



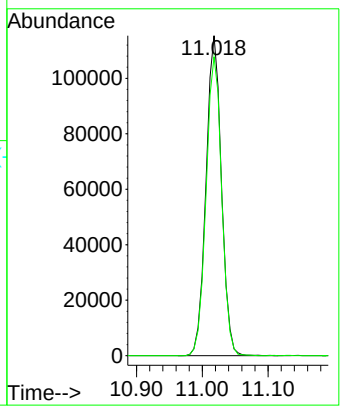


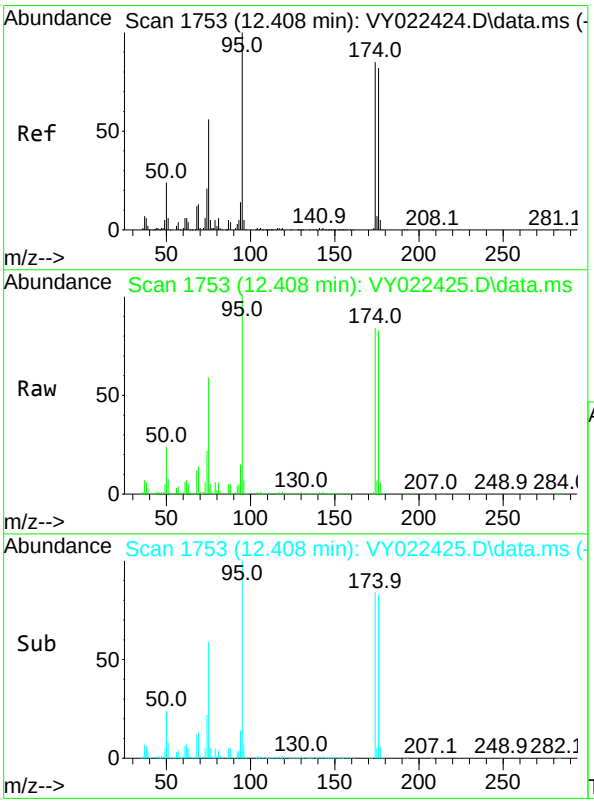
#61
1,2-Dibromoethane
Concen: 106.485 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion:107 Resp: 187723

Ion	Ratio	Lower	Upper
107	100		
109	94.6	74.0	111.0

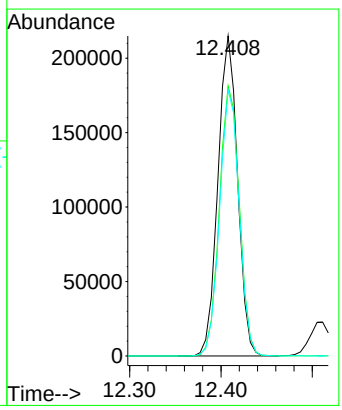


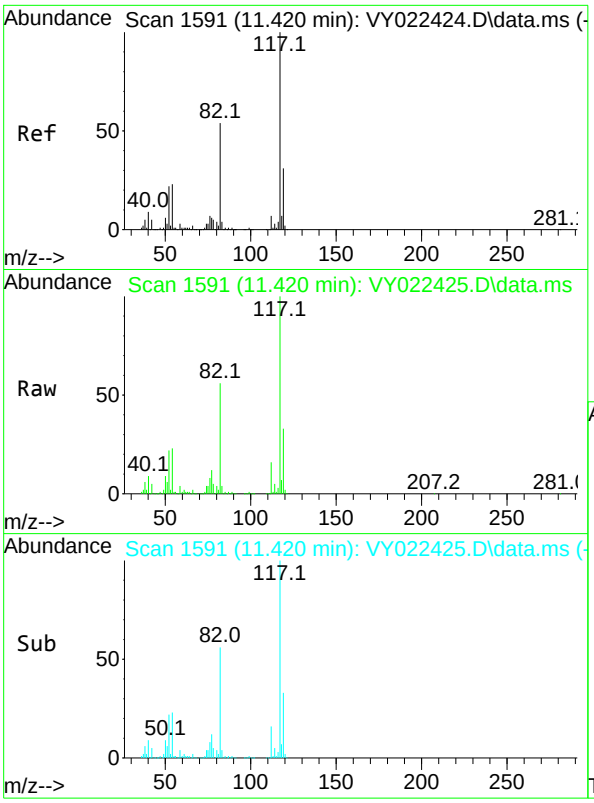


#62
4-Bromofluorobenzene
Concen: 105.861 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 95 Resp: 321108

Ion	Ratio	Lower	Upper
95	100		
174	85.7	0.0	171.6
176	82.9	0.0	164.6



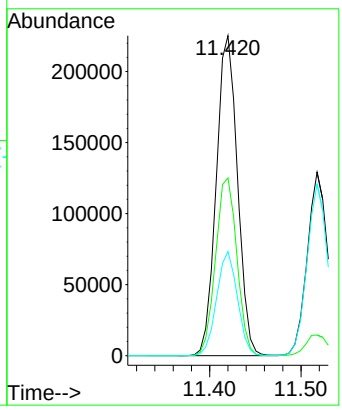


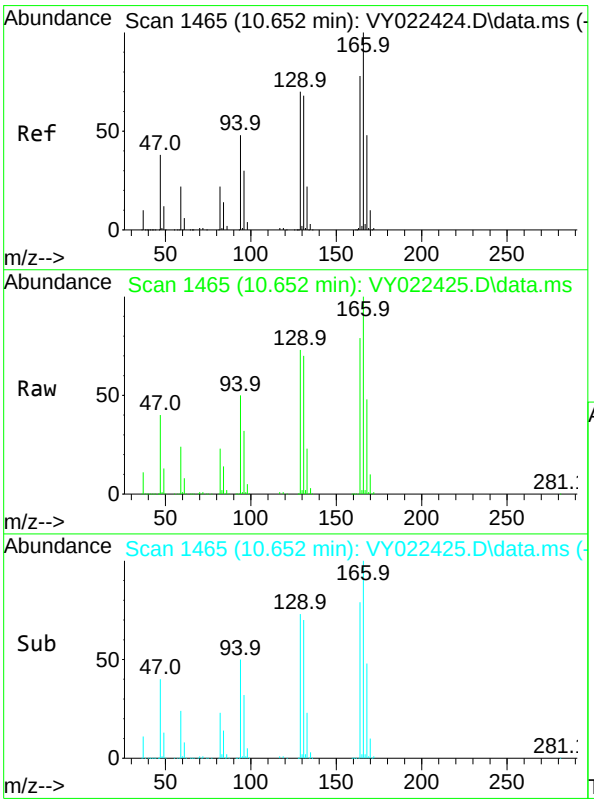
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion:117 Resp: 364148

Ion	Ratio	Lower	Upper
117	100		
82	55.6	43.3	64.9
119	32.5	24.5	36.7

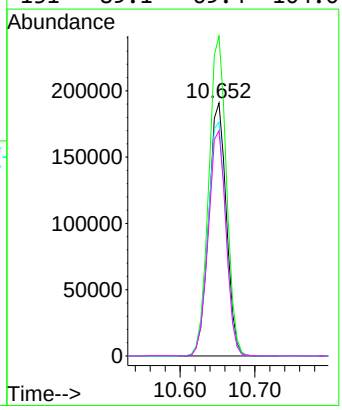


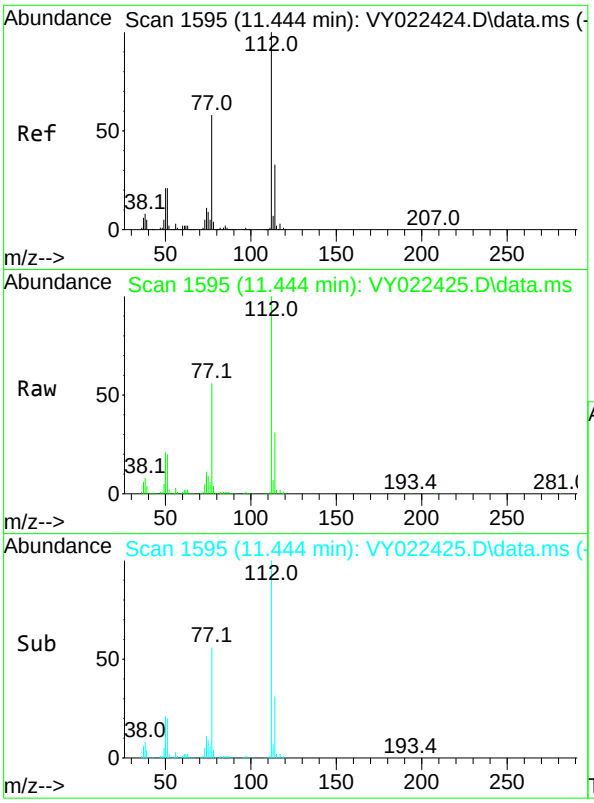


#64
Tetrachloroethene
Concen: 100.828 ug/l
RT: 10.652 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion:164 Resp: 312696

Ion	Ratio	Lower	Upper
164	100		
166	126.5	102.0	153.0
129	92.5	71.3	106.9
131	89.1	69.4	104.0



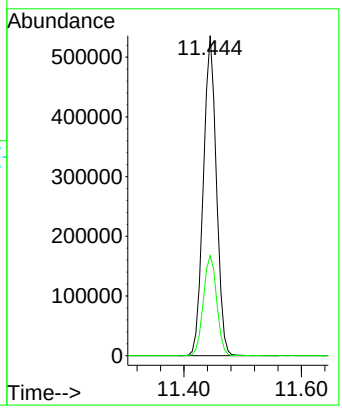


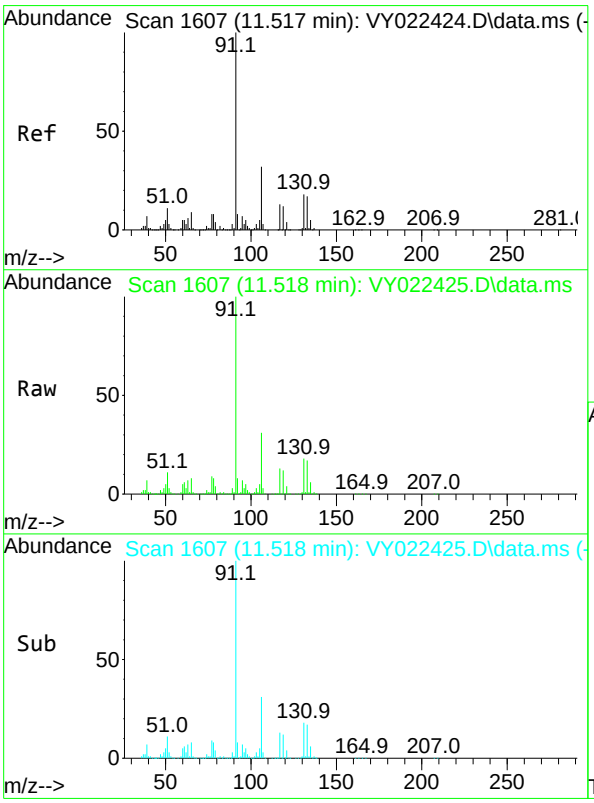
#65
Chlorobenzene
Concen: 106.209 ug/l
RT: 11.444 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion:112 Resp: 824685

Ion	Ratio	Lower	Upper
112	100		
114	31.3	26.1	39.1

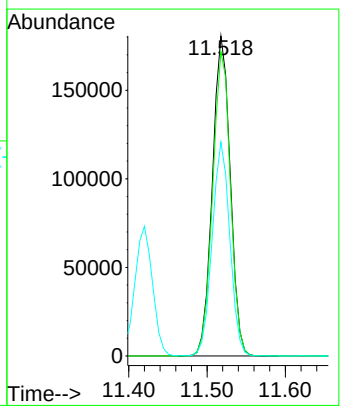


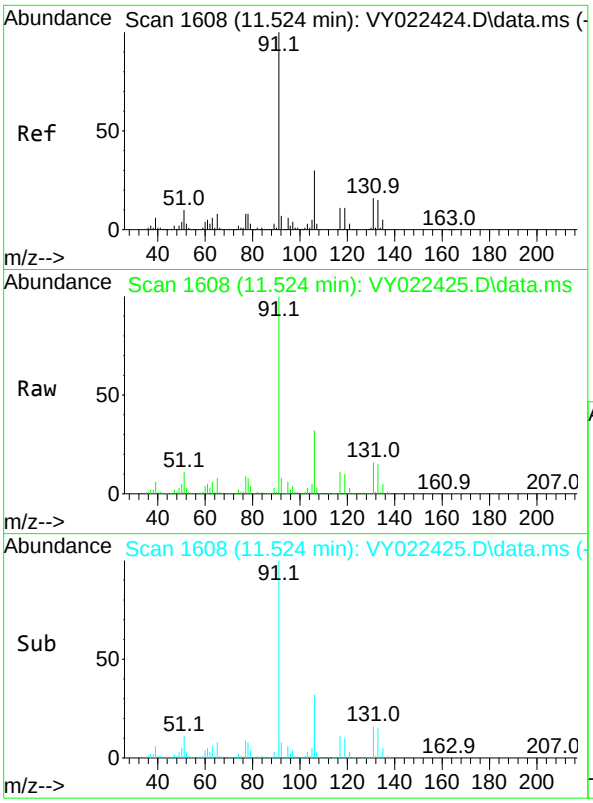


#66
1,1,1,2-Tetrachloroethane
Concen: 108.640 ug/l
RT: 11.518 min Scan# 1607
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion:131 Resp: 285811

Ion	Ratio	Lower	Upper
131	100		
133	94.9	46.6	139.8
119	66.3	33.3	99.8



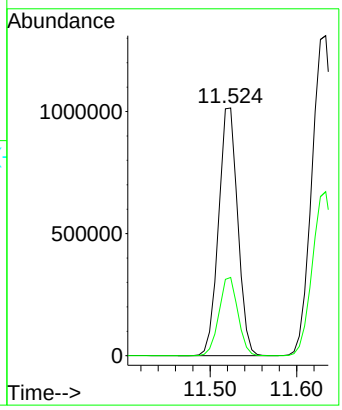


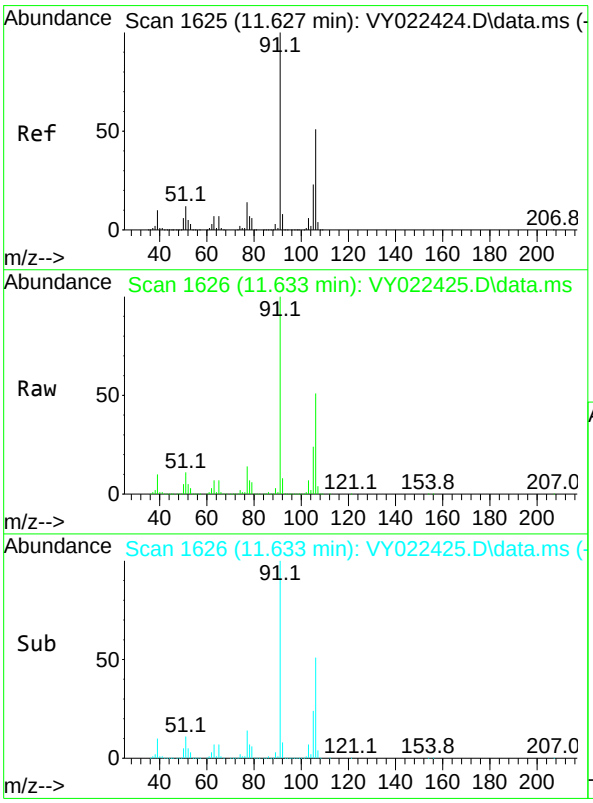
#67
Ethyl Benzene
Concen: 108.210 ug/l
RT: 11.524 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 91 Resp: 1560112

Ion	Ratio	Lower	Upper
91	100		
106	31.6	24.4	36.6

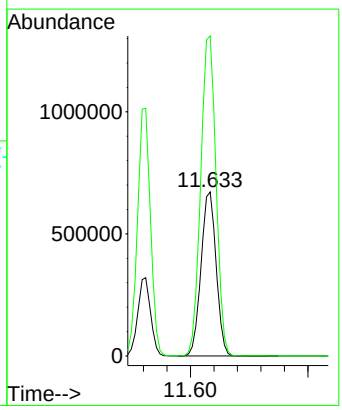


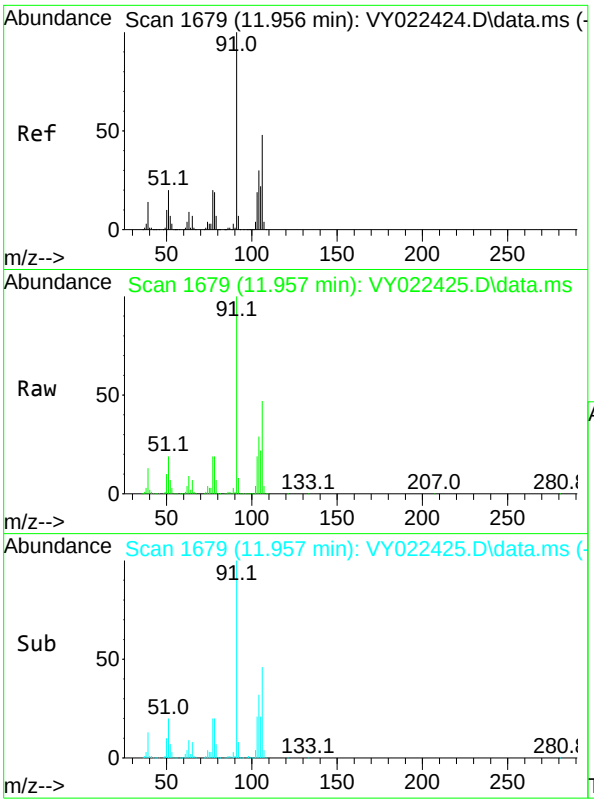


#68
m/p-Xylenes
Concen: 219.811 ug/l
RT: 11.633 min Scan# 1626
Delta R.T. 0.006 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion:106 Resp: 1201541

Ion	Ratio	Lower	Upper
106	100		
91	198.0	159.8	239.8



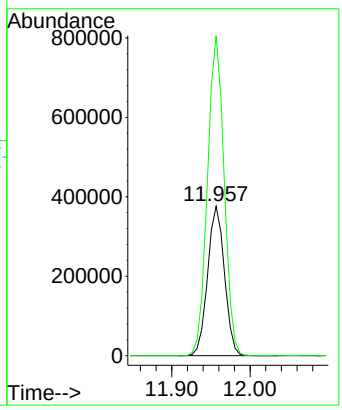


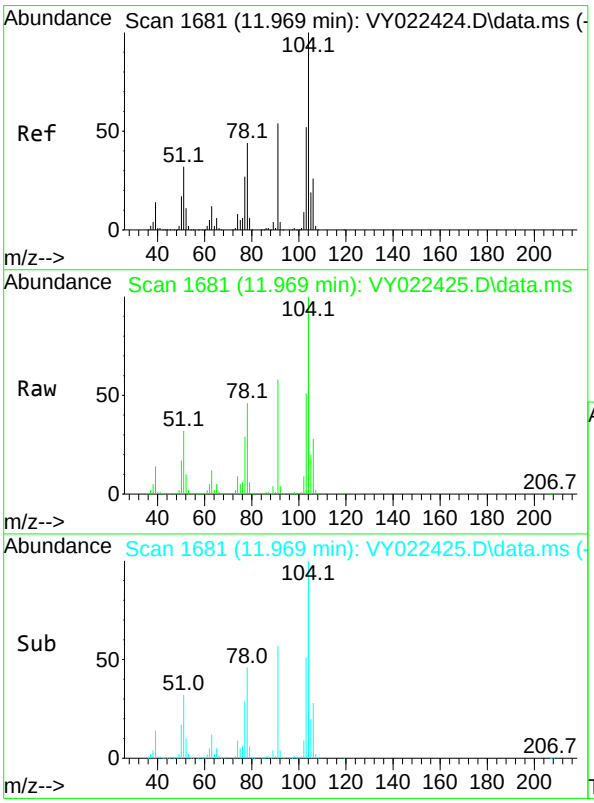
#69
o-Xylene
Concen: 108.917 ug/l
RT: 11.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion:106 Resp: 559553

Ion	Ratio	Lower	Upper
106	100		
91	212.1	106.3	318.9

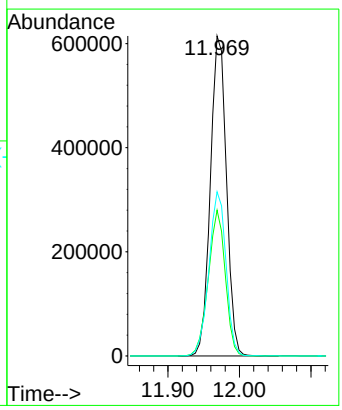


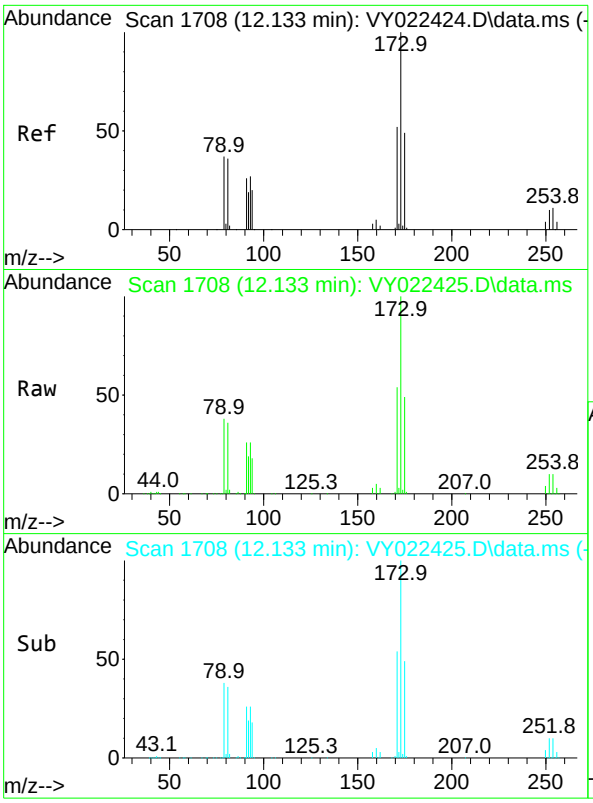


#70
Styrene
Concen: 112.144 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion:104 Resp: 959318

Ion	Ratio	Lower	Upper
104	100		
78	48.1	38.8	58.2
103	54.6	43.4	65.2



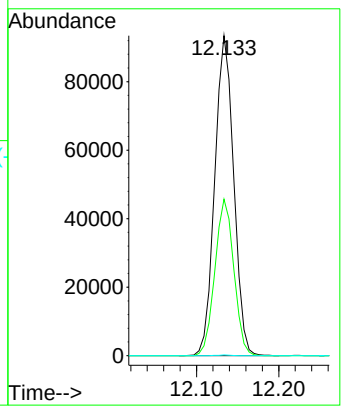


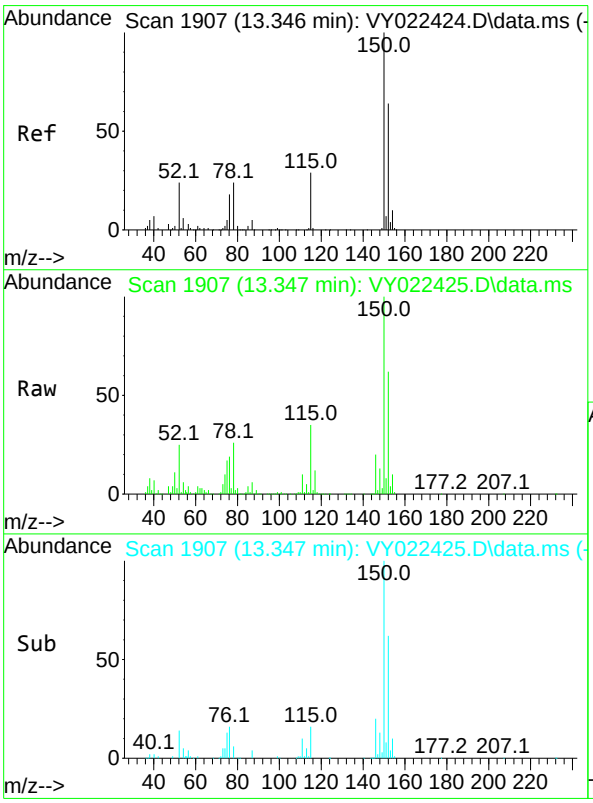
#71
Bromoform
Concen: 108.623 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion:173 Resp: 149684

Ion	Ratio	Lower	Upper
173	100		
175	48.8	24.3	73.0
254	0.2	0.1	0.1#

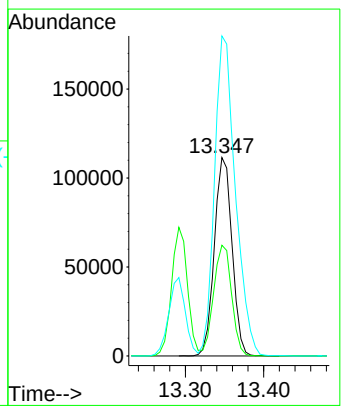


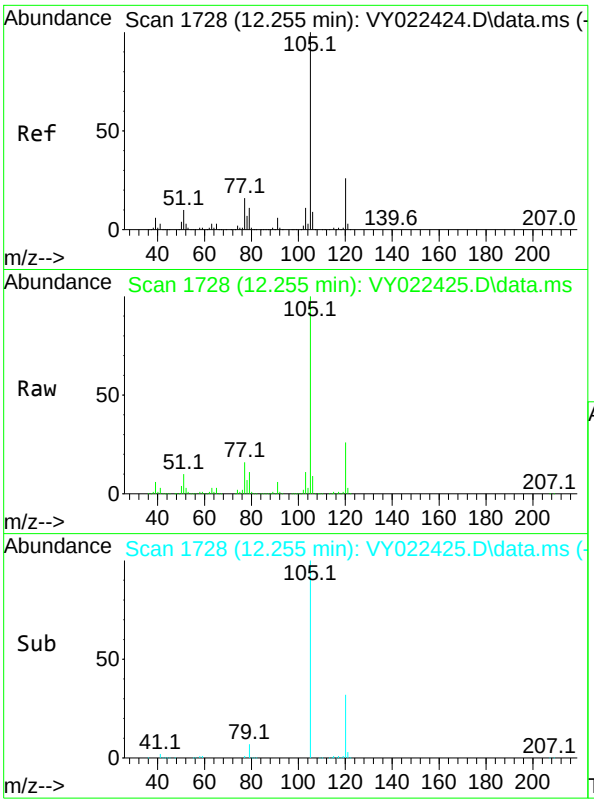


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion:152 Resp: 175436

Ion	Ratio	Lower	Upper
152	100		
115	57.0	28.4	85.3
150	190.1	0.0	345.8



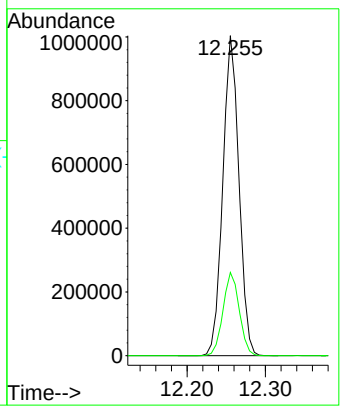


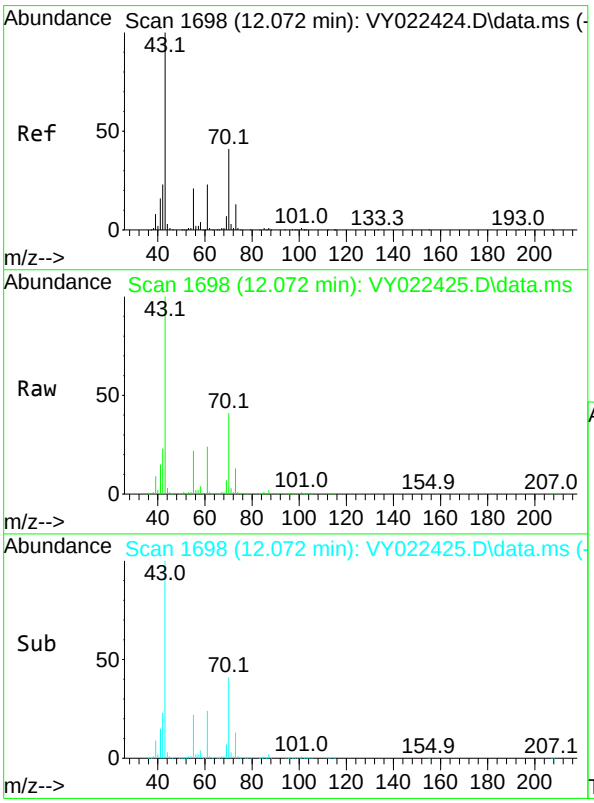
#73
Isopropylbenzene
Concen: 104.314 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion:105 Resp: 1440314

Ion	Ratio	Lower	Upper
105	100		
120	26.2	13.2	39.5

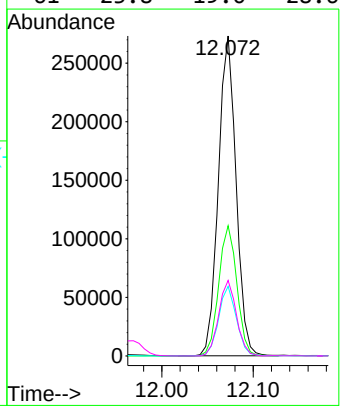


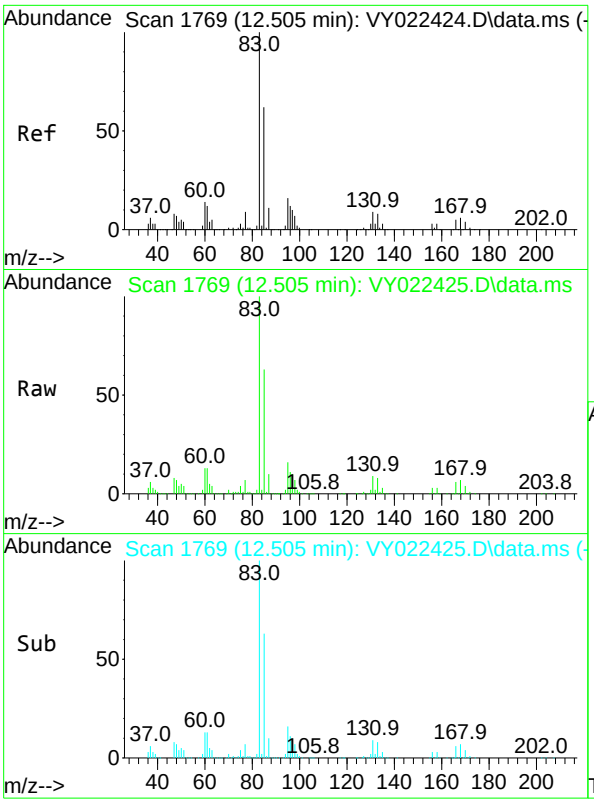


#74
N-amyl acetate
Concen: 109.087 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 43 Resp: 368563

Ion	Ratio	Lower	Upper
43	100		
70	41.8	33.0	49.4
55	21.8	17.5	26.3
61	23.8	19.0	28.6



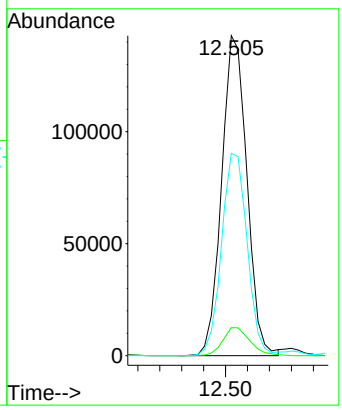


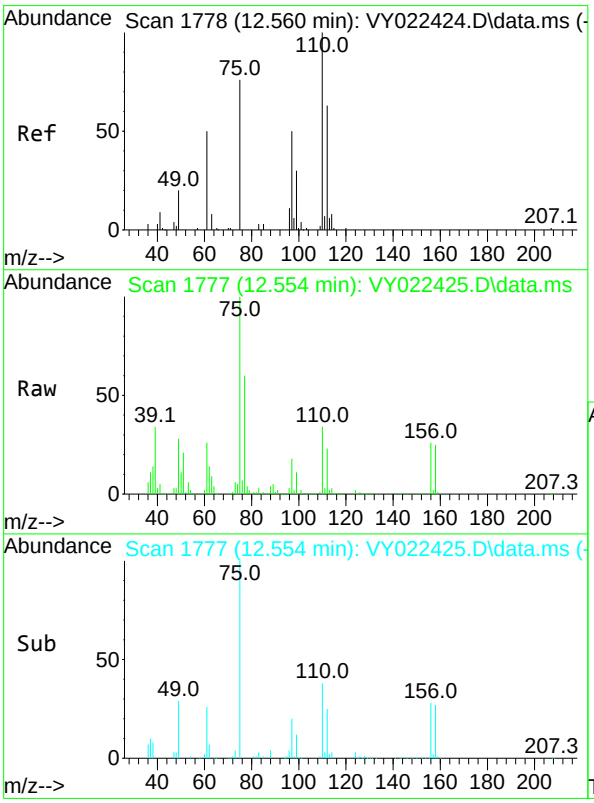
#75
1,1,2,2-Tetrachloroethane
Concen: 105.191 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 83 Resp: 228832

Ion	Ratio	Lower	Upper
83	100		
131	9.5	4.8	14.4
85	64.1	32.0	96.2

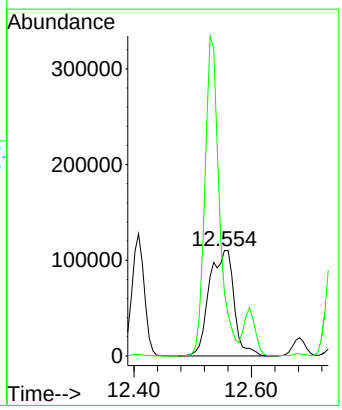


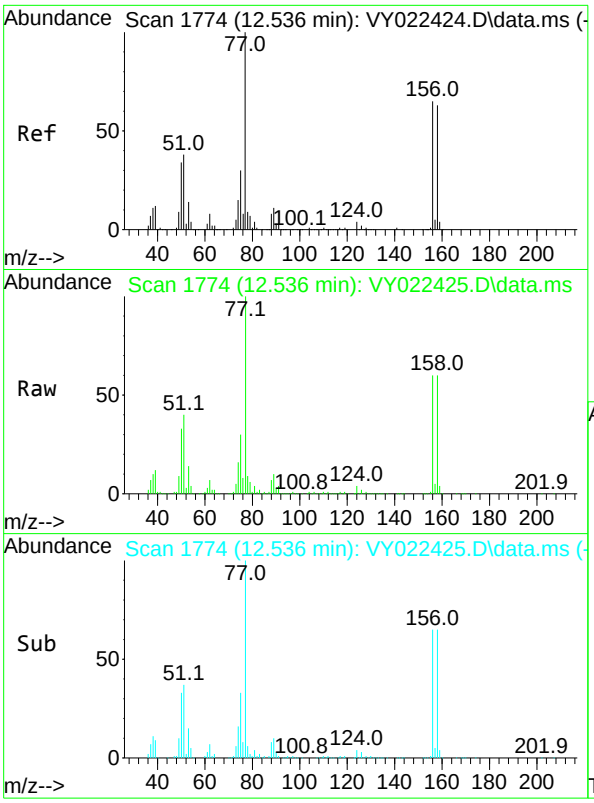


#76
1,2,3-Trichloropropane
Concen: 183.252 ug/l
RT: 12.554 min Scan# 1777
Delta R.T. -0.006 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 75 Resp: 322024

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0



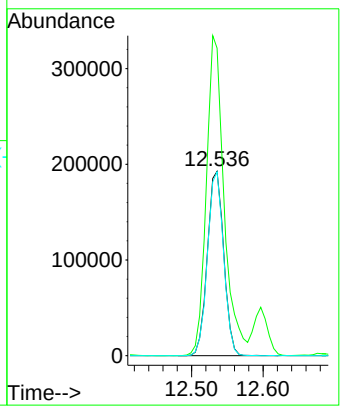


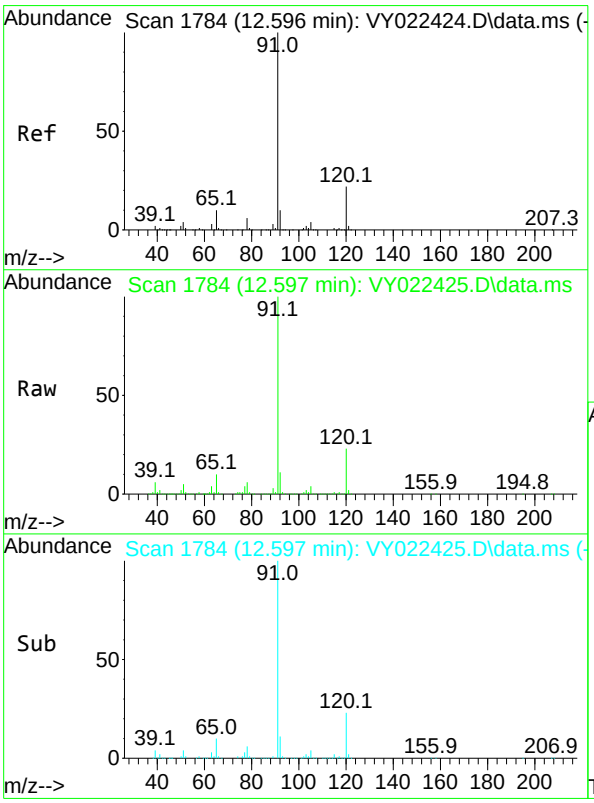
#77
Bromobenzene
Concen: 102.933 ug/l
RT: 12.536 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion:156 Resp: 305847

Ion	Ratio	Lower	Upper
156	100		
77	188.3	91.4	274.2
158	98.0	48.1	144.3

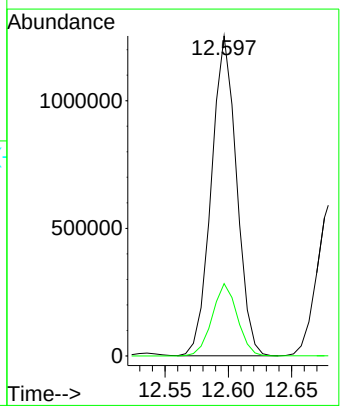


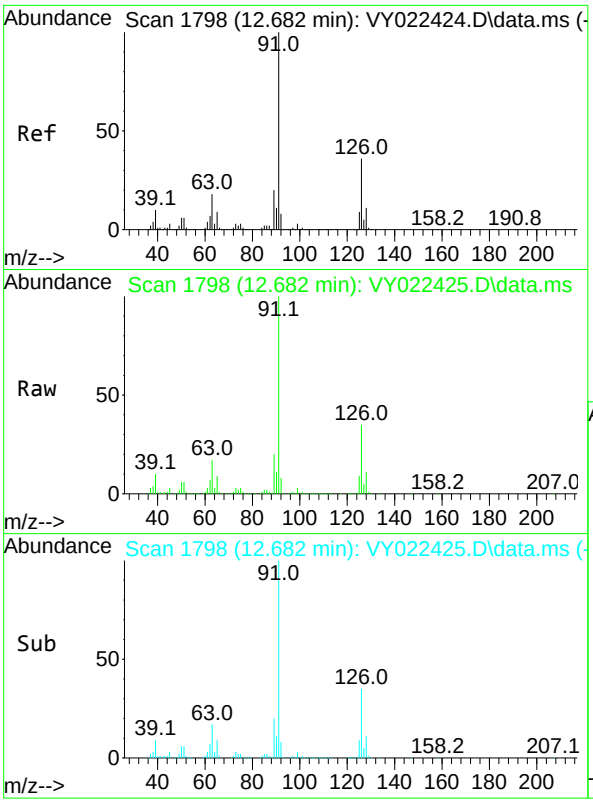


#78
n-propylbenzene
Concen: 104.859 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 91 Resp: 1737515

Ion	Ratio	Lower	Upper
91	100		
120	22.5	11.2	33.5



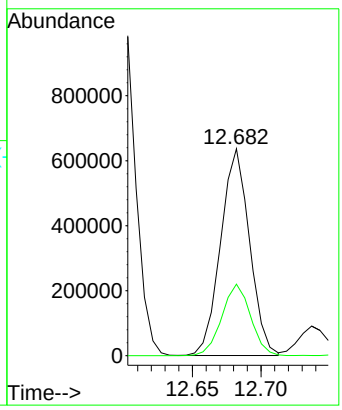


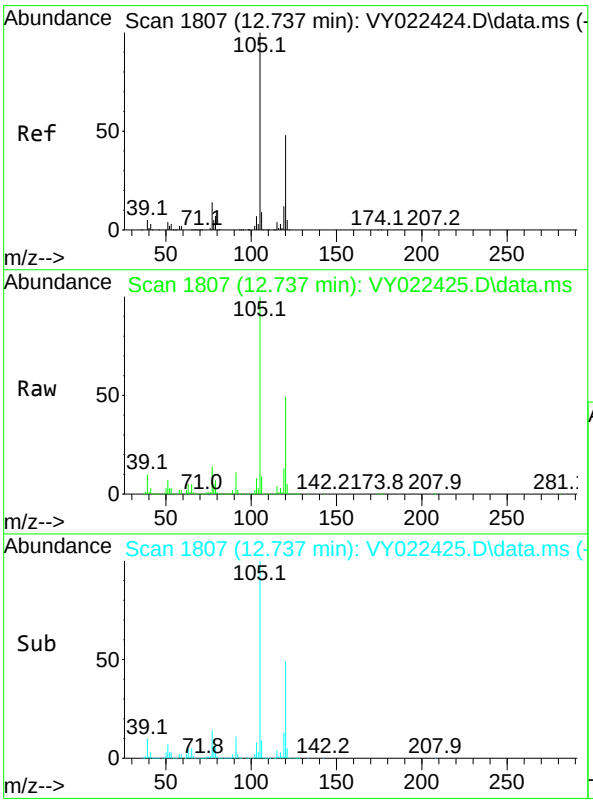
#79
2-Chlorotoluene
Concen: 104.209 ug/l
RT: 12.682 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 91 Resp: 934717

Ion	Ratio	Lower	Upper
91	100		
126	34.4	17.4	52.3

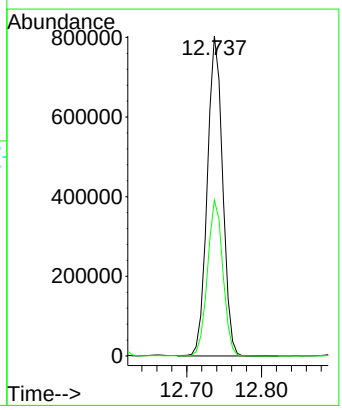


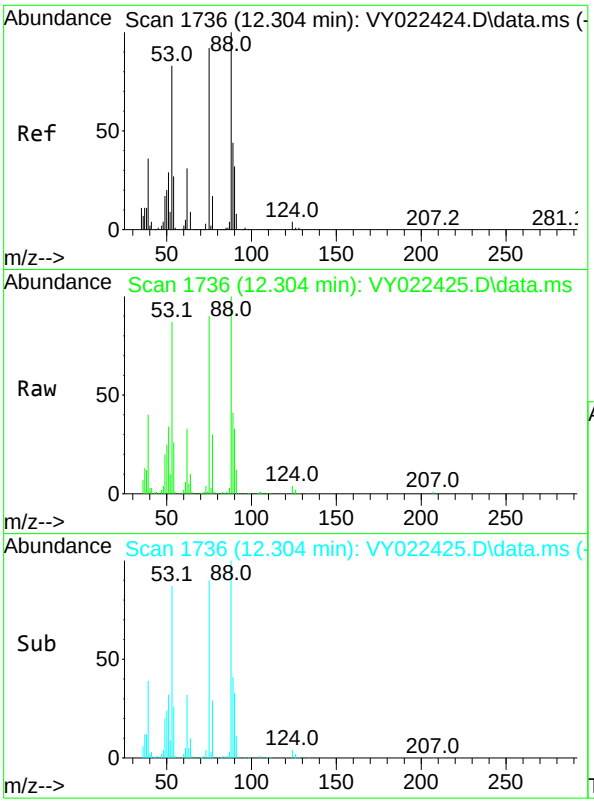


#80
1,3,5-Trimethylbenzene
Concen: 105.961 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion:105 Resp: 1143145

Ion	Ratio	Lower	Upper
105	100		
120	48.9	24.3	73.0



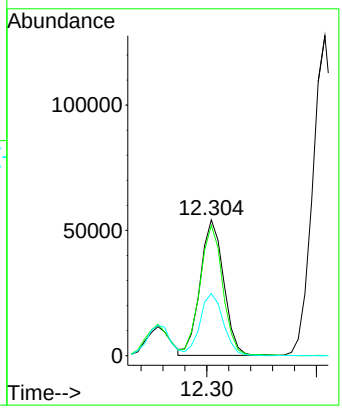


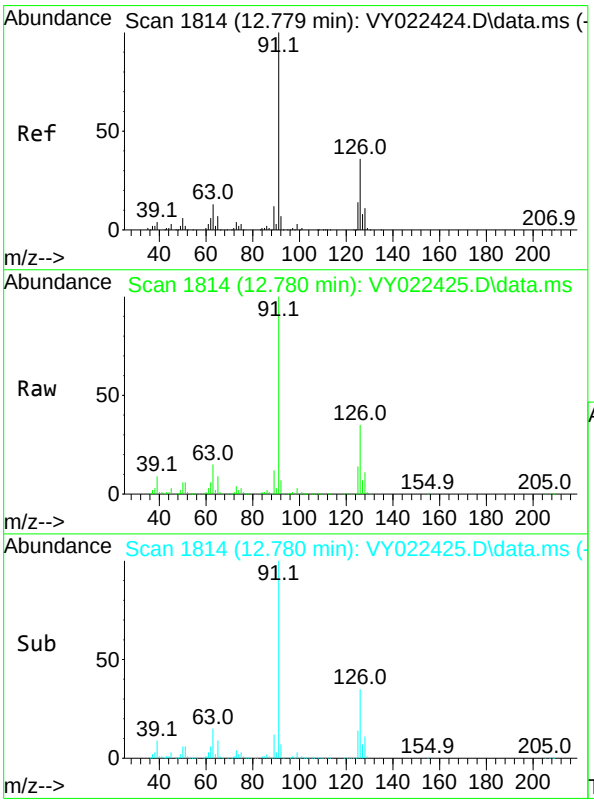
#81
trans-1,4-Dichloro-2-butene
Concen: 103.668 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 75 Resp: 80556

Ion	Ratio	Lower	Upper
75	100		
53	94.1	75.1	112.7
89	45.2	37.4	56.0

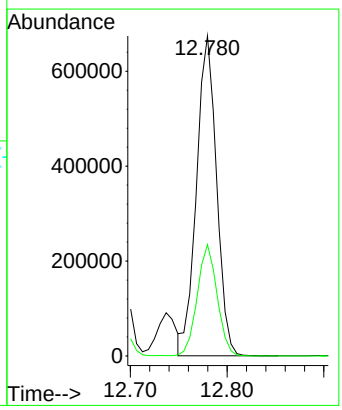


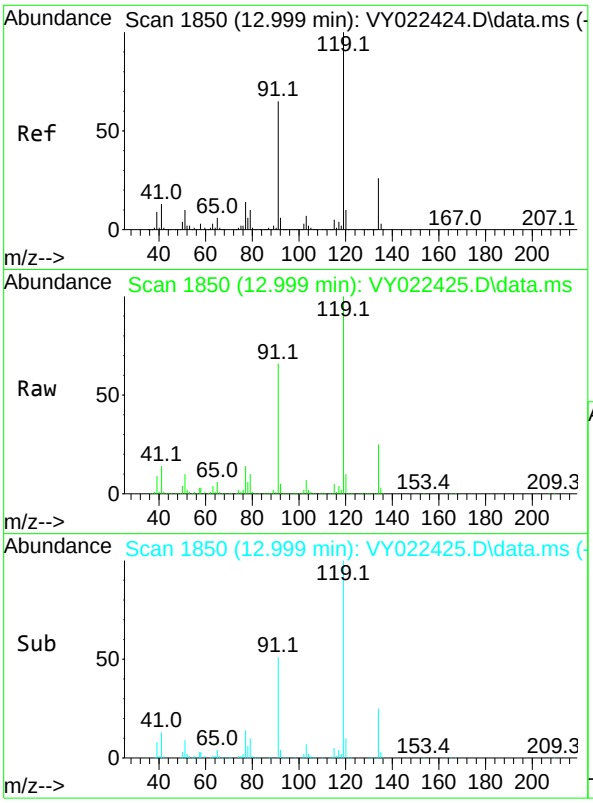


#82
4-Chlorotoluene
Concen: 105.314 ug/l
RT: 12.780 min Scan# 1814
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 91 Resp: 972892

Ion	Ratio	Lower	Upper
91	100		
126	34.6	17.2	51.6



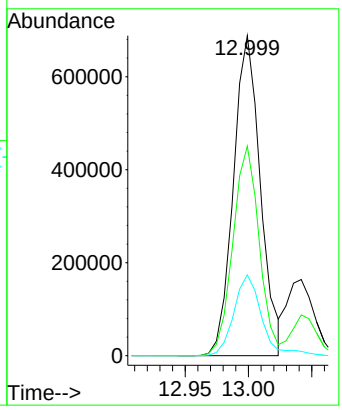


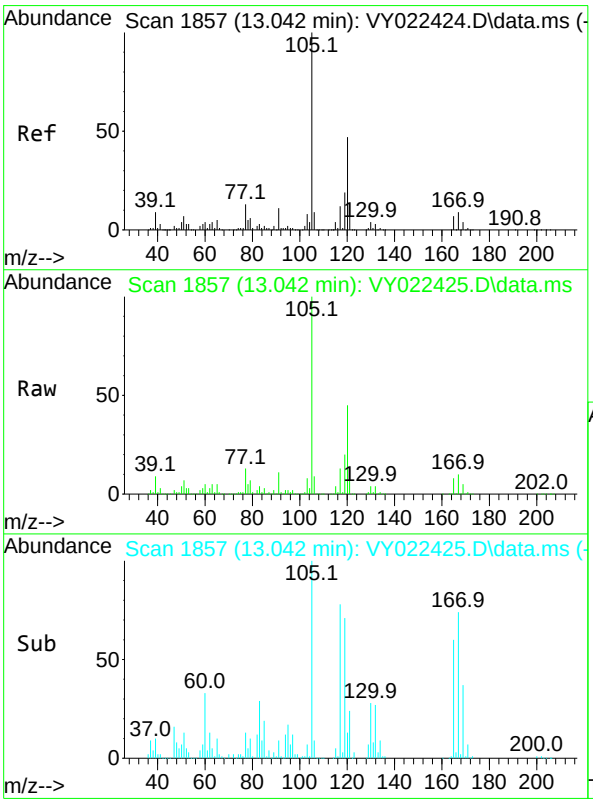
#83
tert-Butylbenzene
Concen: 105.025 ug/l
RT: 12.999 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion:119 Resp: 1023704

Ion	Ratio	Lower	Upper
119	100		
91	63.5	31.8	95.3
134	26.0	13.0	38.9

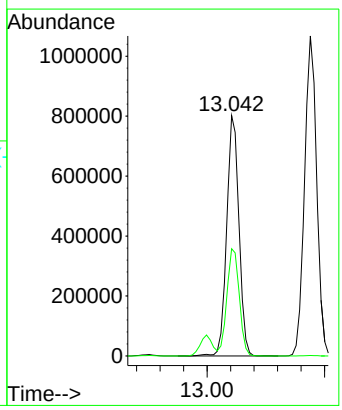


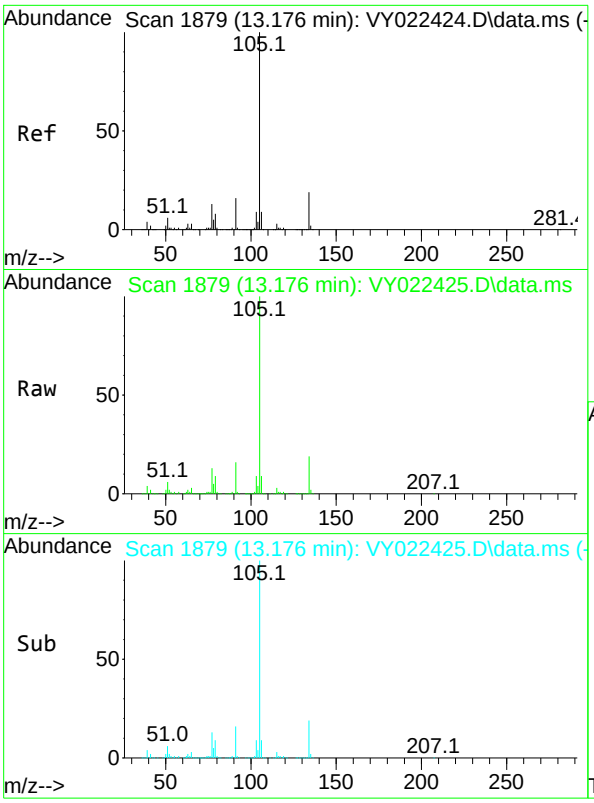


#84
1,2,4-Trimethylbenzene
Concen: 106.843 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion:105 Resp: 1159943

Ion	Ratio	Lower	Upper
105	100		
120	45.3	22.9	68.5



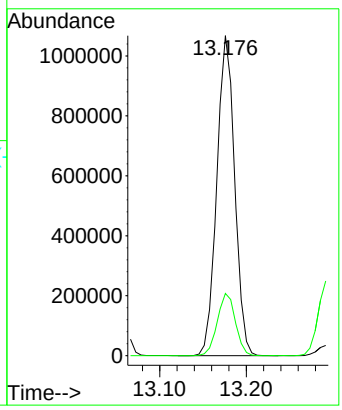


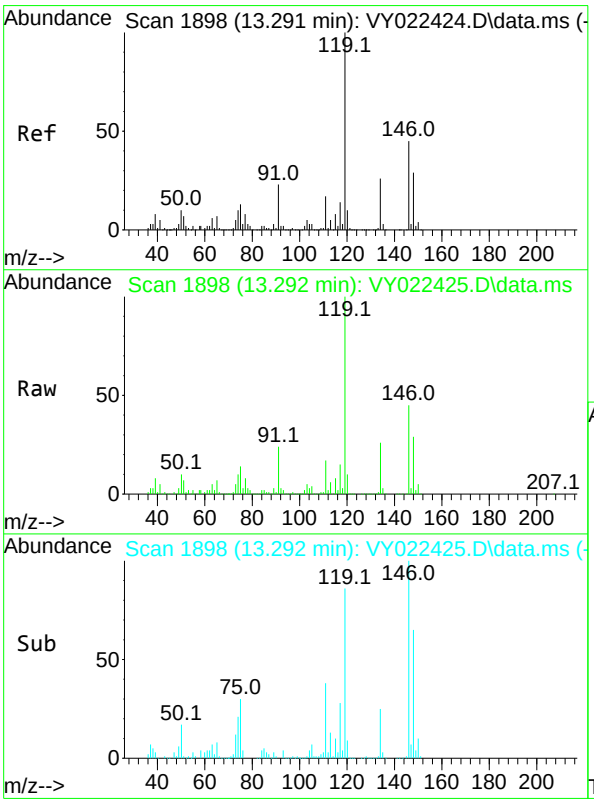
#85
sec-Butylbenzene
Concen: 105.741 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion:105 Resp: 1528524

Ion	Ratio	Lower	Upper
105	100		
134	19.7	9.7	29.1

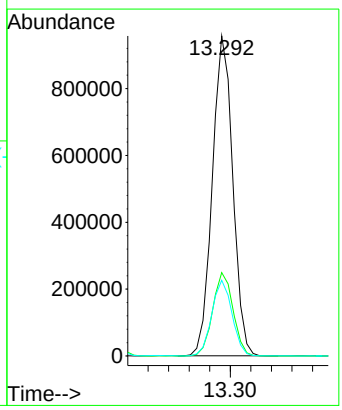


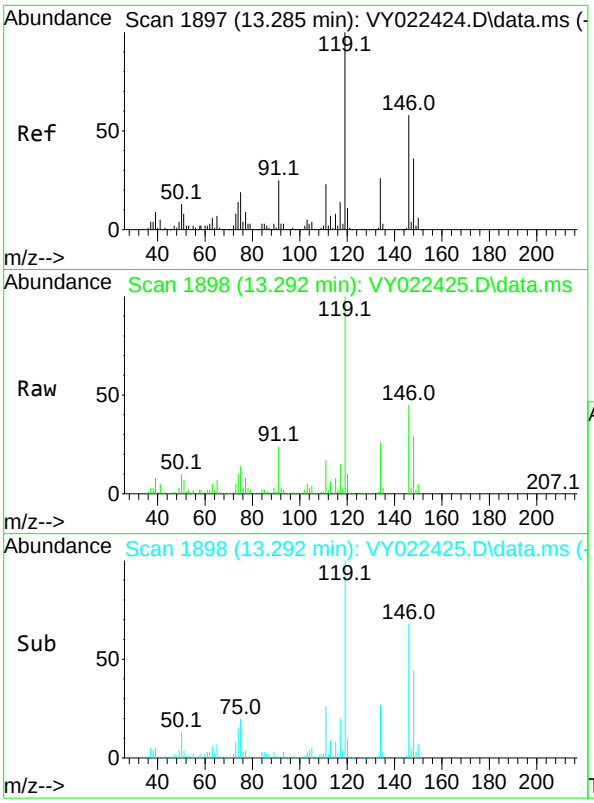


#86
p-Isopropyltoluene
Concen: 109.402 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion:119 Resp: 1320591

Ion	Ratio	Lower	Upper
119	100		
134	26.0	13.0	39.0
91	23.3	11.6	34.8



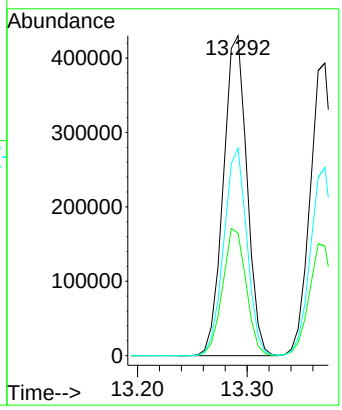


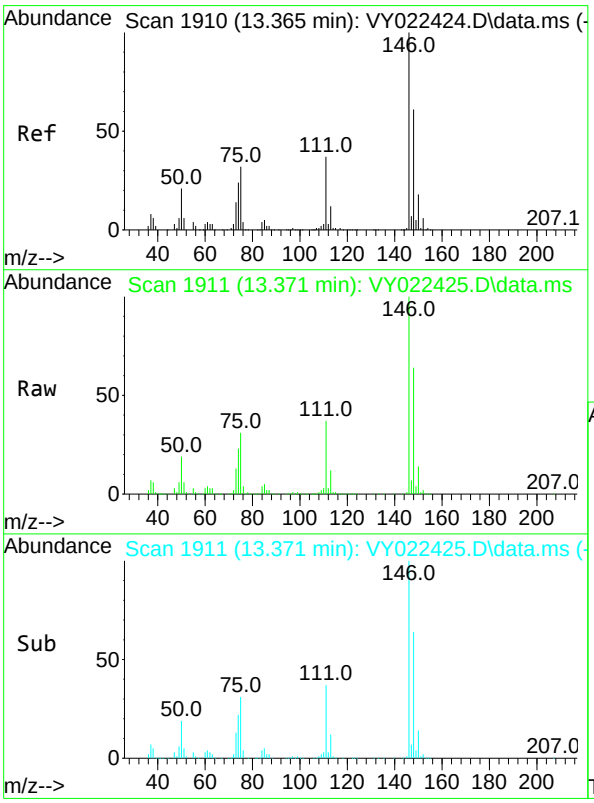
#87
1,3-Dichlorobenzene
Concen: 107.749 ug/l
RT: 13.292 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion:146 Resp: 644184

Ion	Ratio	Lower	Upper
146	100		
111	39.5	19.6	58.8
148	63.5	31.7	95.1

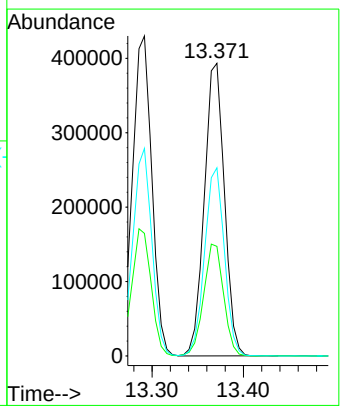


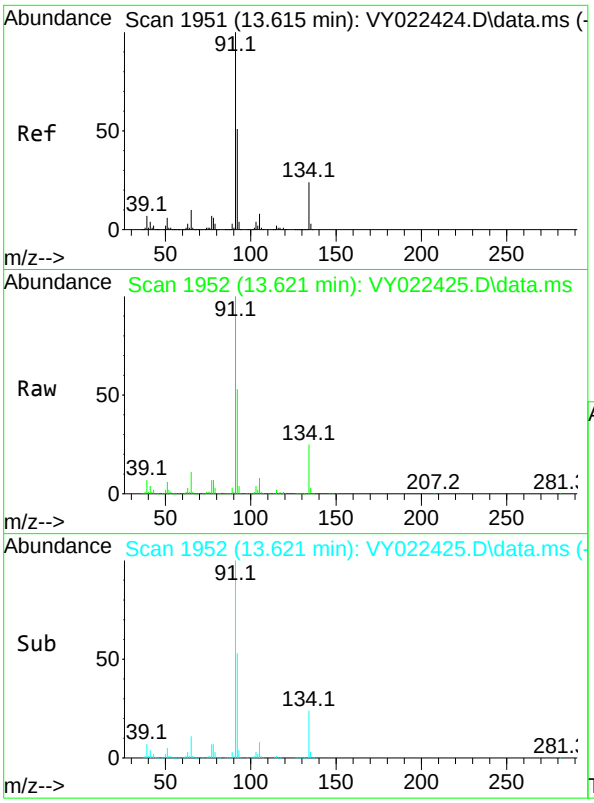


#88
1,4-Dichlorobenzene
Concen: 104.800 ug/l
RT: 13.371 min Scan# 1911
Delta R.T. 0.006 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion:146 Resp: 599095

Ion	Ratio	Lower	Upper
146	100		
111	38.0	18.7	56.1
148	63.4	31.4	94.3



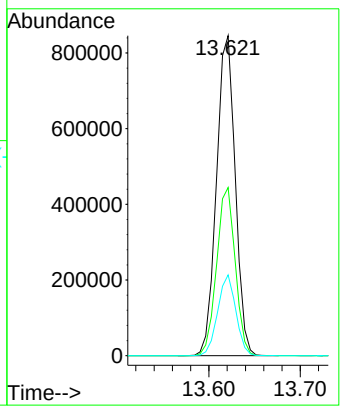


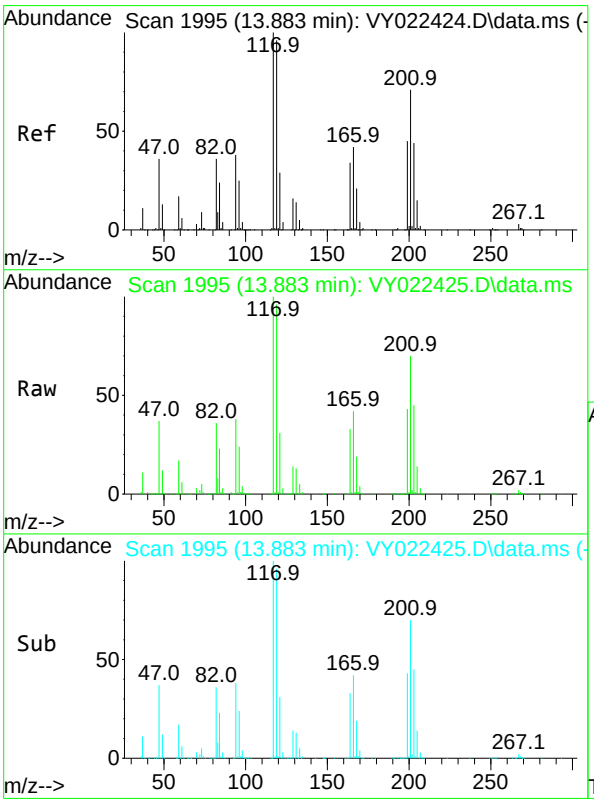
#89
n-Butylbenzene
Concen: 106.731 ug/l
RT: 13.621 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion: 91 Resp: 1207976

Ion	Ratio	Lower	Upper
91	100		
92	52.2	25.9	77.6
134	24.4	12.4	37.0

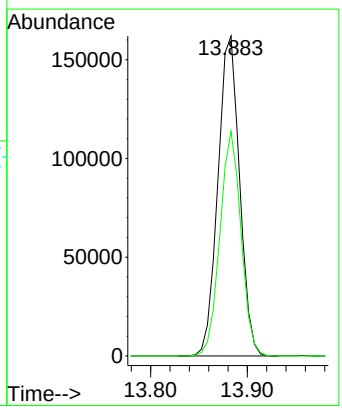


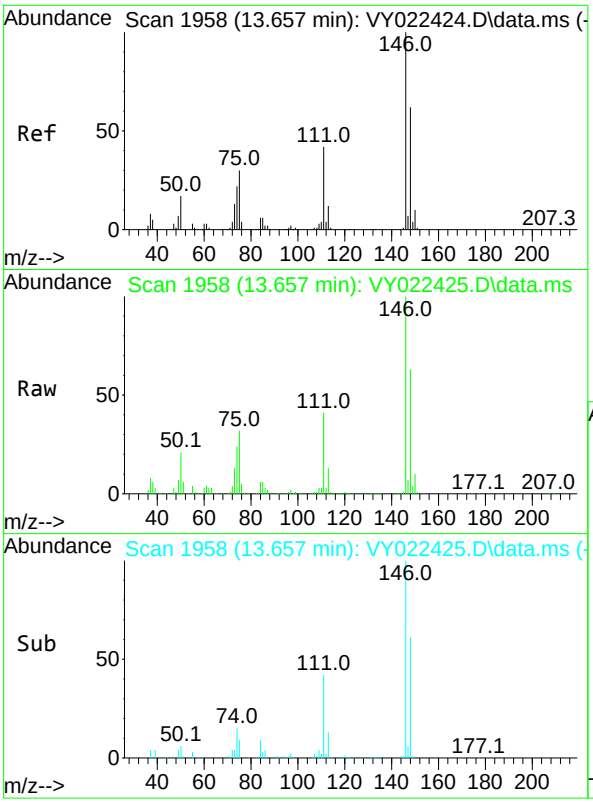


#90
Hexachloroethane
Concen: 104.776 ug/l
RT: 13.883 min Scan# 1995
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion:117 Resp: 251685

Ion	Ratio	Lower	Upper
117	100		
201	68.2	35.0	105.0



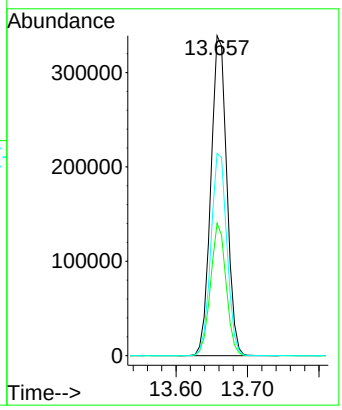


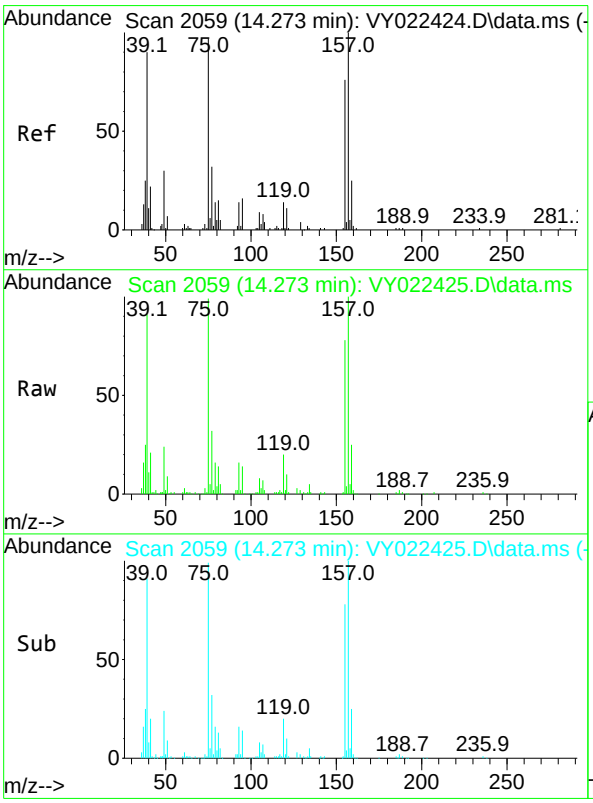
#91
1,2-Dichlorobenzene
Concen: 105.034 ug/l
RT: 13.657 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion:146 Resp: 524498

Ion	Ratio	Lower	Upper
146	100		
111	40.2	20.5	61.6
148	63.5	31.9	95.9

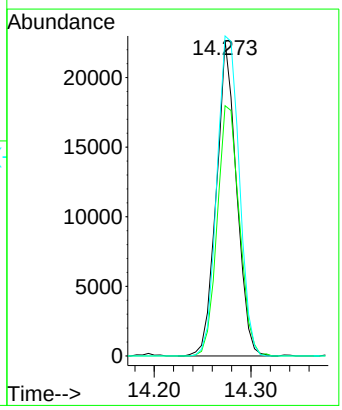


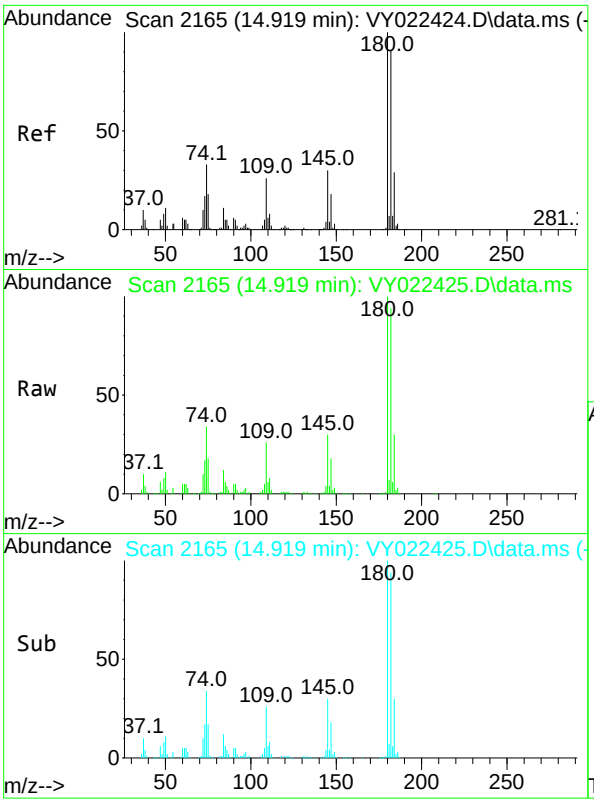


#92
1,2-Dibromo-3-Chloropropane
Concen: 97.318 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion: 75 Resp: 32714

Ion	Ratio	Lower	Upper
75	100		
155	86.8	42.3	126.8
157	112.3	54.4	163.3



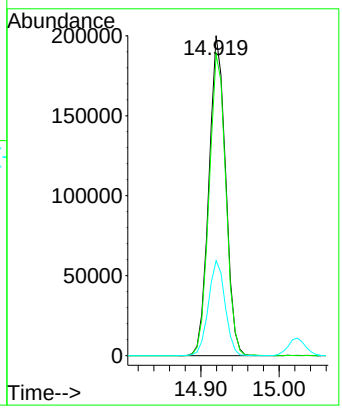


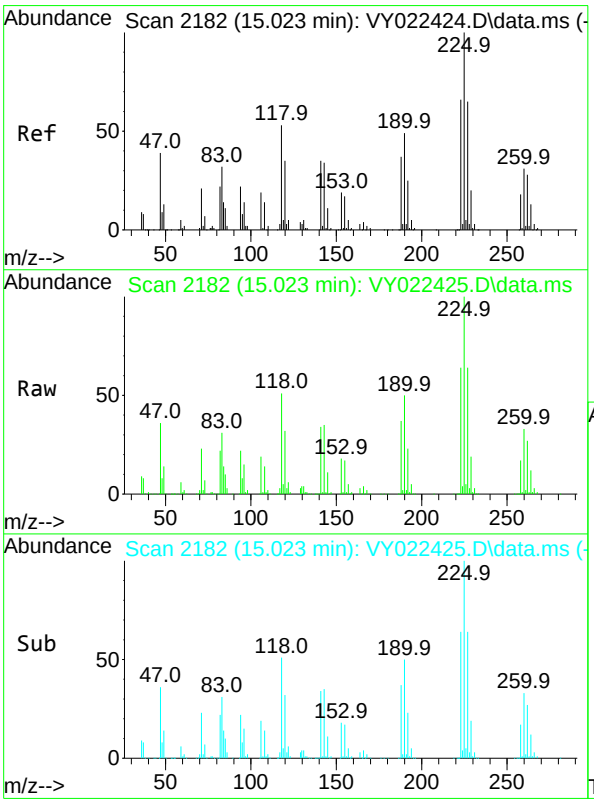
#93
1,2,4-Trichlorobenzene
Concen: 106.731 ug/l
RT: 14.919 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion:180 Resp: 295471

Ion	Ratio	Lower	Upper
180	100		
182	94.4	46.2	138.6
145	29.7	14.2	42.8

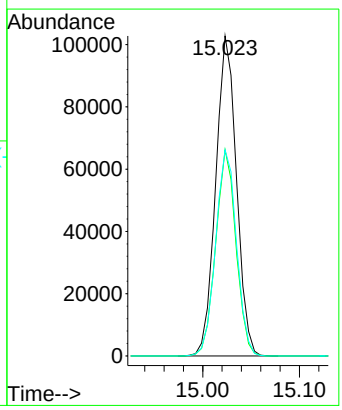


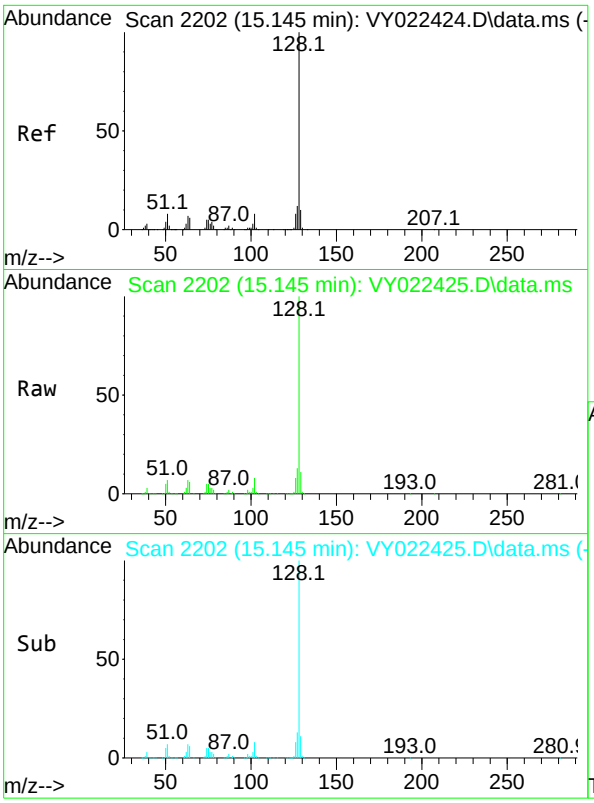


#94
Hexachlorobutadiene
Concen: 105.350 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion:225 Resp: 153056

Ion	Ratio	Lower	Upper
225	100		
223	62.9	32.6	97.7
227	64.7	33.0	99.0



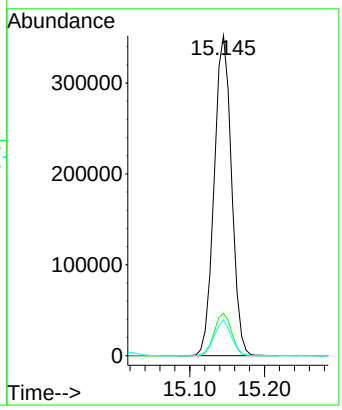


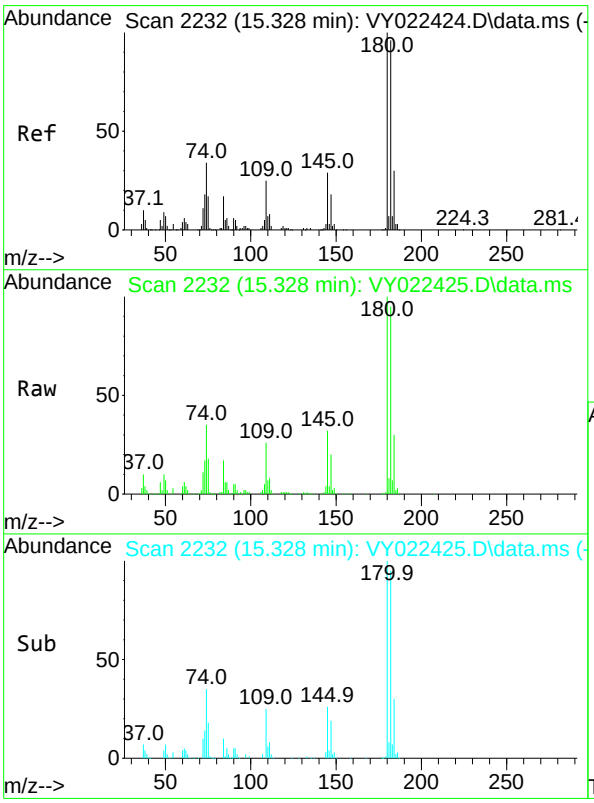
#95
Naphthalene
Concen: 111.021 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Tgt Ion:128 Resp: 568187

Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.2	15.4
129	10.8	8.5	12.7

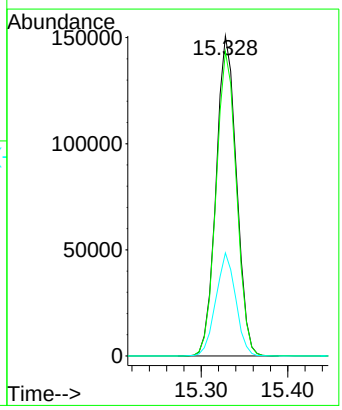




#96
1,2,3-Trichlorobenzene
Concen: 108.638 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. 0.000 min
Lab File: VY022425.D
Acq: 27 May 2025 10:22

Tgt Ion:180 Resp: 246652

Ion	Ratio	Lower	Upper
180	100		
182	95.0	48.1	144.3
145	31.4	14.9	44.5



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022426.D
Acq On : 27 May 2025 10:44
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Quant Time: May 28 15:25:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	261566	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	431909	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	376608	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	182671	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	422539	153.366	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 306.740%#			
35) Dibromofluoromethane	7.640	113	398438	157.523	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 315.040%#			
50) Toluene-d8	10.109	98	1621564	157.262	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 314.520%#			
62) 4-Bromofluorobenzene	12.408	95	487100	156.173	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 312.340%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	336978	135.034	ug/l	98
3) Chloromethane	2.068	50	715868	116.621	ug/l	97
4) Vinyl Chloride	2.208	62	986607	132.303	ug/l	99
5) Bromomethane	2.586	94	1055313	155.728	ug/l	99
6) Chloroethane	2.732	64	711645	146.039	ug/l	100
7) Trichlorofluoromethane	3.050	101	935844	148.741	ug/l	99
8) Diethyl Ether	3.458	74	220632	152.083	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.818	101	401637	145.505	ug/l	99
10) Methyl Iodide	4.007	142	499602	160.432	ug/l	99
11) Tert butyl alcohol	4.878	59	150306	773.981	ug/l	98
12) 1,1-Dichloroethene	3.793	96	404241	147.508	ug/l	98
13) Acrolein	3.653	56	224761	772.427	ug/l	99
14) Allyl chloride	4.385	41	634755	153.977	ug/l	99
15) Acrylonitrile	5.067	53	455189	778.419	ug/l	99
16) Acetone	3.873	43	327320	722.994	ug/l #	85
17) Carbon Disulfide	4.110	76	1295027	148.080	ug/l	100
18) Methyl Acetate	4.385	43	300253	177.047	ug/l	99
19) Methyl tert-butyl Ether	5.122	73	1134189	155.888	ug/l	100
20) Methylene Chloride	4.616	84	426225	133.322	ug/l	95
21) trans-1,2-Dichloroethene	5.116	96	456846	152.698	ug/l	99
22) Diisopropyl ether	6.025	45	1404193	154.338	ug/l	96
23) Vinyl Acetate	5.964	43	4042390	773.807	ug/l	100
24) 1,1-Dichloroethane	5.921	63	828730	154.149	ug/l	99
25) 2-Butanone	6.896	43	603839	800.866	ug/l	99
26) 2,2-Dichloropropane	6.890	77	737854	151.572	ug/l	99
27) cis-1,2-Dichloroethene	6.896	96	537325	155.137	ug/l	99
28) Bromochloromethane	7.250	49	342656	152.635	ug/l	98
29) Tetrahydrofuran	7.268	42	397295	790.090	ug/l	100
30) Chloroform	7.427	83	814685	153.787	ug/l	98
31) Cyclohexane	7.707	56	730410	137.826	ug/l	97
32) 1,1,1-Trichloroethane	7.622	97	737686	153.436	ug/l	100
36) 1,1-Dichloropropene	7.841	75	623501	155.342	ug/l	100
37) Ethyl Acetate	6.988	43	261975	153.581	ug/l	99
38) Carbon Tetrachloride	7.823	117	663867	158.776	ug/l	99
39) Methylcyclohexane	9.109	83	824642	154.561	ug/l	99
40) Benzene	8.085	78	1893003	158.501	ug/l	99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022426.D
Acq On : 27 May 2025 10:44
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Quant Time: May 28 15:25:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.268	41	214162	206.859	ug/l	#	51
42) 1,2-Dichloroethane	8.158	62	497991	157.877	ug/l		100
43) Isopropyl Acetate	8.201	43	587308	157.564	ug/l		100
44) Trichloroethene	8.866	130	449921	152.390	ug/l		95
45) 1,2-Dichloropropane	9.146	63	438721	156.346	ug/l		99
46) Dibromomethane	9.231	93	249636	159.252	ug/l		99
47) Bromodichloromethane	9.426	83	639597	158.668	ug/l		98
48) Methyl methacrylate	9.225	41	288821	166.922	ug/l		98
49) 1,4-Dioxane	9.231	88	55890	3228.011	ug/l		98
51) 4-Methyl-2-Pentanone	9.999	43	1565663	851.310	ug/l		100
52) Toluene	10.170	92	1239585	166.170	ug/l		98
53) t-1,3-Dichloropropene	10.396	75	612236	163.055	ug/l		98
54) cis-1,3-Dichloropropene	9.859	75	708367	160.557	ug/l		98
55) 1,1,2-Trichloroethane	10.573	97	314785	158.829	ug/l		99
56) Ethyl methacrylate	10.438	69	478765	168.334	ug/l		98
57) 1,3-Dichloropropane	10.719	76	549047	157.203	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.713	63	1202134	848.088	ug/l		100
59) 2-Hexanone	10.762	43	1032146	856.364	ug/l		99
60) Dibromochloromethane	10.914	129	415432	164.093	ug/l		99
61) 1,2-Dibromoethane	11.018	107	292010	161.091	ug/l		98
64) Tetrachloroethene	10.652	164	466490	145.442	ug/l		99
65) Chlorobenzene	11.444	112	1273300	158.560	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.518	131	454374	166.998	ug/l		98
67) Ethyl Benzene	11.518	91	2468130	165.526	ug/l		99
68) m/p-Xylenes	11.633	106	1900132	336.111	ug/l		99
69) o-Xylene	11.956	106	894394	168.335	ug/l		99
70) Styrene	11.969	104	1535004	173.504	ug/l		99
71) Bromoform	12.133	173	237301	166.508	ug/l	#	100
73) Isopropylbenzene	12.255	105	2238981	155.735	ug/l		100
74) N-amyl acetate	12.072	43	561846	159.709	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.505	83	357601	157.873	ug/l		100
76) 1,2,3-Trichloropropane	12.560	75	510486	278.992	ug/l	#	100
77) Bromobenzene	12.530	156	484799	156.697	ug/l		98
78) n-propylbenzene	12.597	91	2681276	155.406	ug/l		100
79) 2-Chlorotoluene	12.682	91	1451439	155.407	ug/l		99
80) 1,3,5-Trimethylbenzene	12.737	105	1785622	158.958	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.304	75	129469	160.016	ug/l		96
82) 4-Chlorotoluene	12.779	91	1513977	157.395	ug/l		100
83) tert-Butylbenzene	12.999	119	1594195	157.076	ug/l		100
84) 1,2,4-Trimethylbenzene	13.042	105	1831722	162.038	ug/l		100
85) sec-Butylbenzene	13.176	105	2373216	157.674	ug/l		99
86) p-Isopropyltoluene	13.292	119	2084441	165.843	ug/l		99
87) 1,3-Dichlorobenzene	13.292	146	1027086	164.991	ug/l		100
88) 1,4-Dichlorobenzene	13.371	146	924346	155.292	ug/l		99
89) n-Butylbenzene	13.621	91	1889271	160.316	ug/l		99
90) Hexachloroethane	13.883	117	386833	154.660	ug/l		99
91) 1,2-Dichlorobenzene	13.657	146	812262	156.218	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.273	75	52777	150.784	ug/l		99
93) 1,2,4-Trichlorobenzene	14.919	180	468879	162.662	ug/l		98
94) Hexachlorobutadiene	15.023	225	236480	156.325	ug/l		97
95) Naphthalene	15.145	128	915763	171.849	ug/l		99
96) 1,2,3-Trichlorobenzene	15.328	180	395519	167.307	ug/l		98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022426.D
Acq On : 27 May 2025 10:44
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Quant Time: May 28 15:25:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration

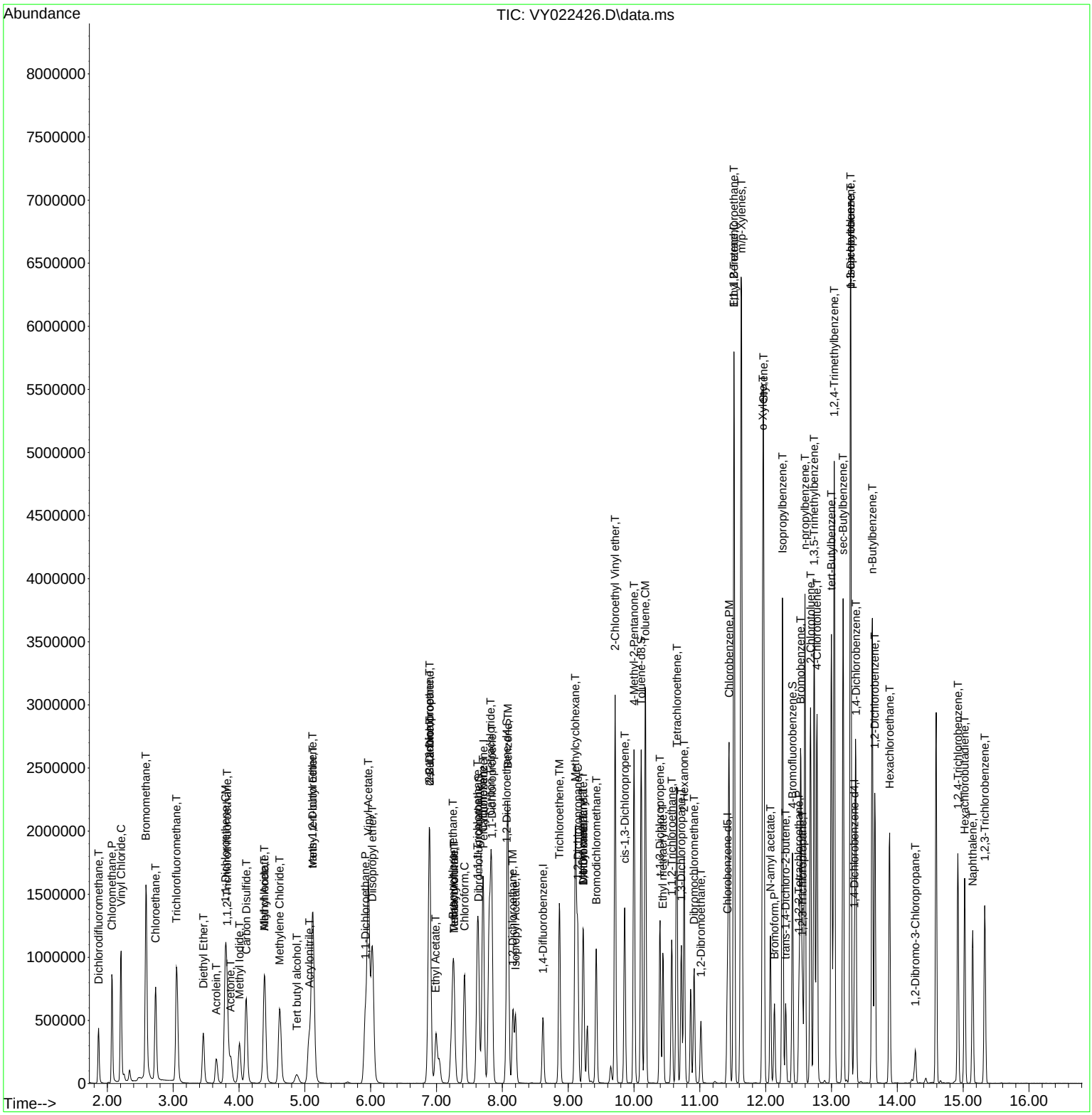
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

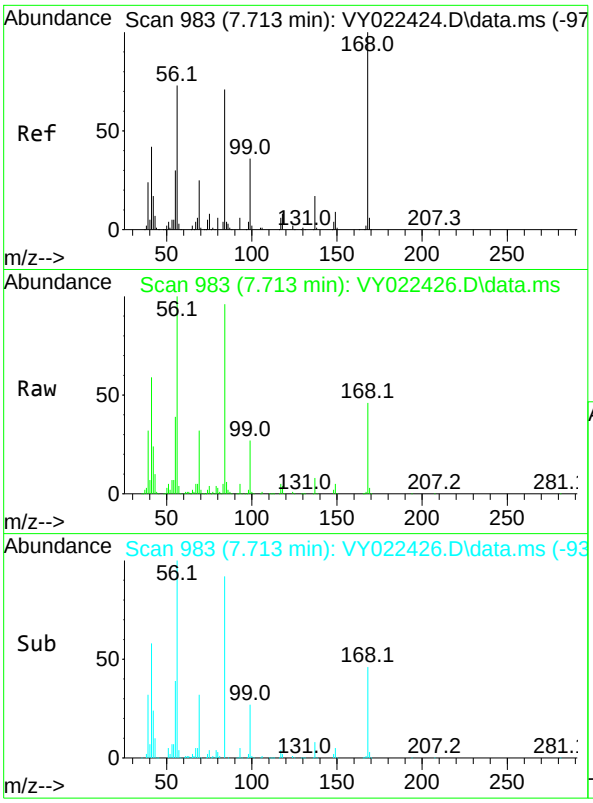
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022426.D
Acq On : 27 May 2025 10:44
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Quant Time: May 28 15:25:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration



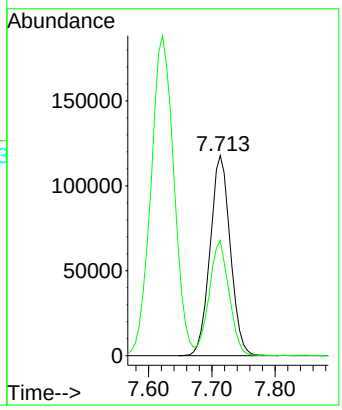


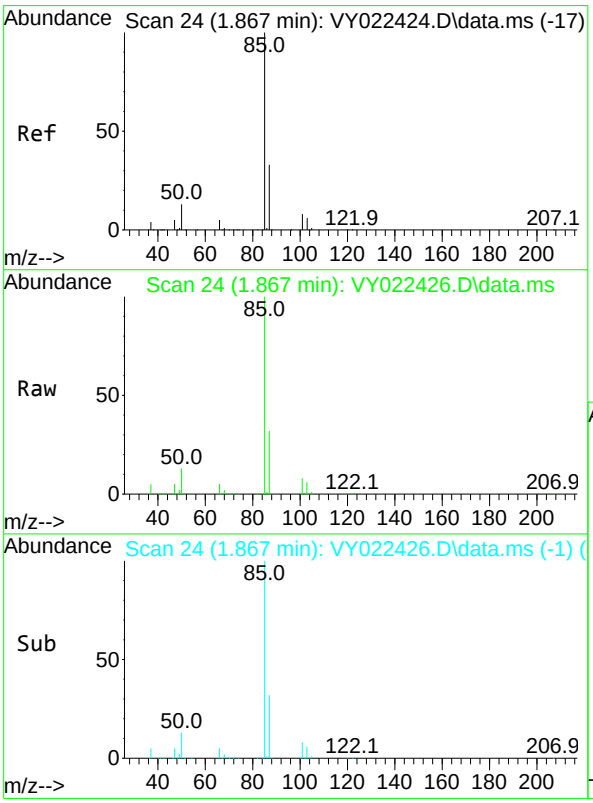
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion:168 Resp: 261566

Ion	Ratio	Lower	Upper
168	100		
99	57.4	44.7	67.1

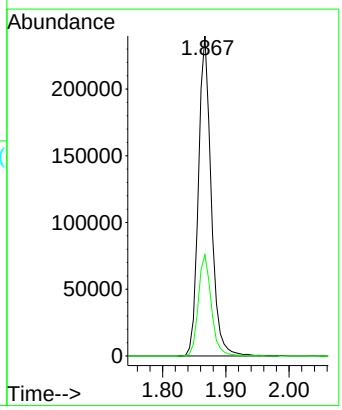


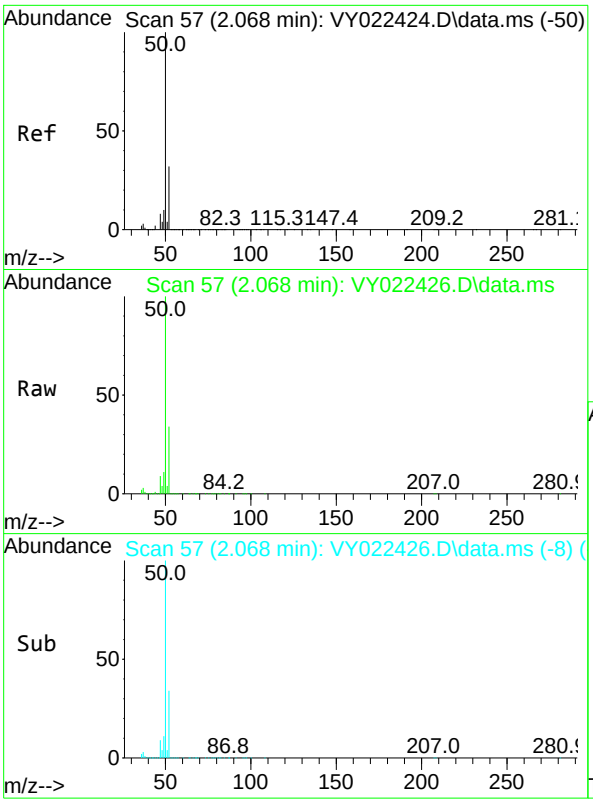


#2
Dichlorodifluoromethane
Concen: 135.034 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 85 Resp: 336978

Ion	Ratio	Lower	Upper
85	100		
87	31.6	16.4	49.2



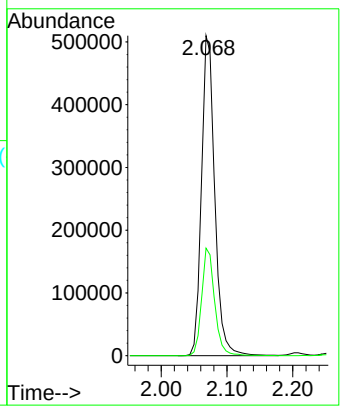


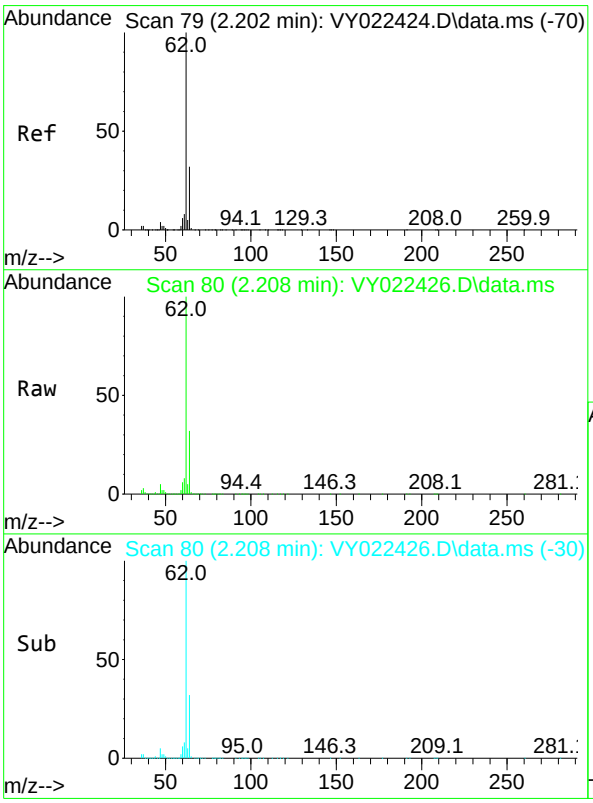
#3
Chloromethane
Concen: 116.621 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 50 Resp: 715868

Ion	Ratio	Lower	Upper
50	100		
52	33.6	25.5	38.3

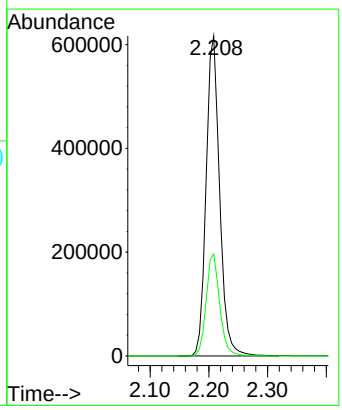


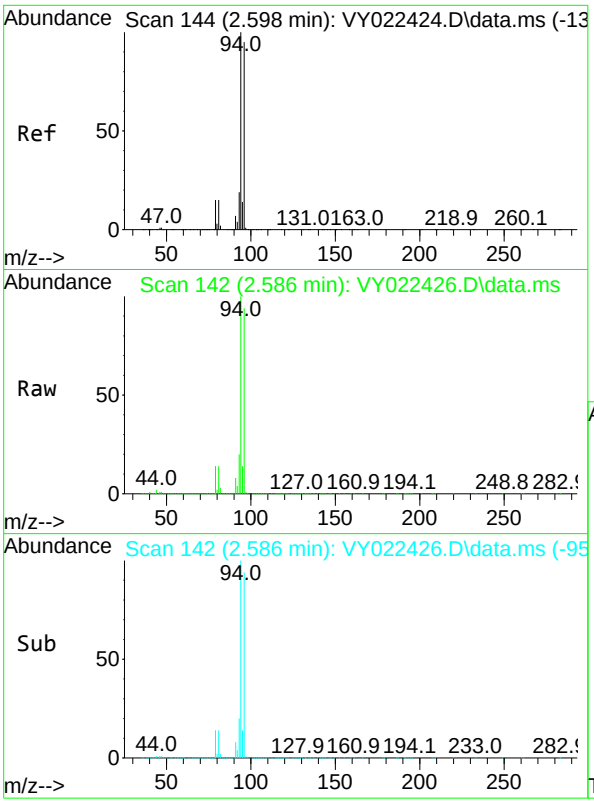


#4
Vinyl Chloride
Concen: 132.303 ug/l
RT: 2.208 min Scan# 80
Delta R.T. 0.006 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 62 Resp: 986607

Ion	Ratio	Lower	Upper
62	100		
64	31.9	26.0	39.0



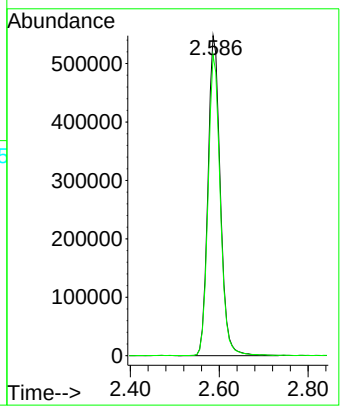


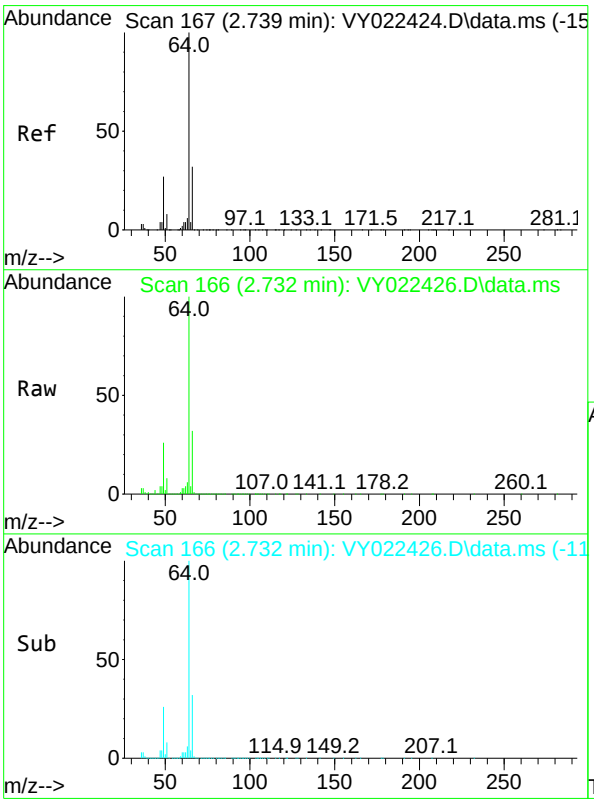
#5
Bromomethane
Concen: 155.728 ug/l
RT: 2.586 min Scan# 14
Delta R.T. -0.012 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 94 Resp: 1055313

Ion	Ratio	Lower	Upper
94	100		
96	93.8	76.0	114.0

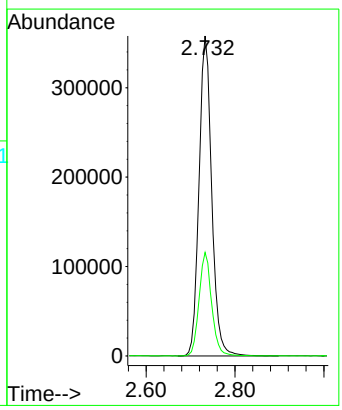


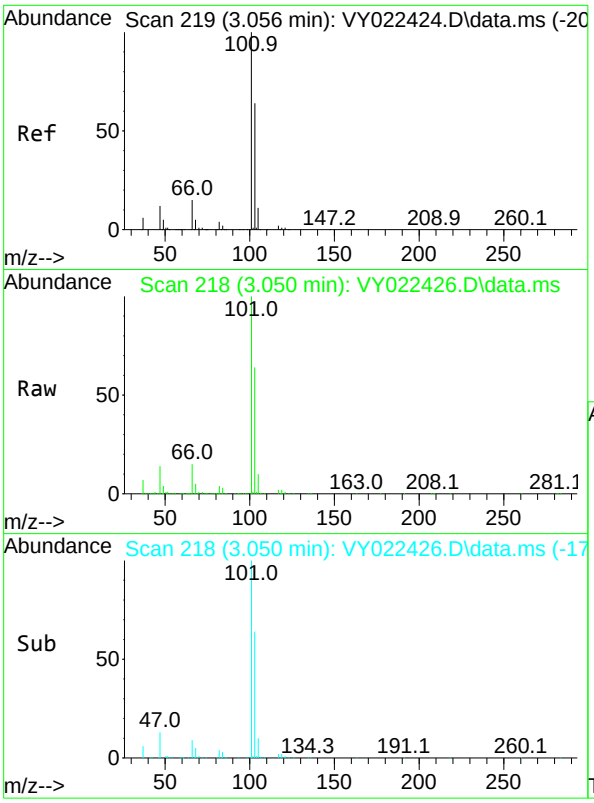


#6
Chloroethane
Concen: 146.039 ug/l
RT: 2.732 min Scan# 166
Delta R.T. -0.006 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 64 Resp: 711645

Ion	Ratio	Lower	Upper
64	100		
66	32.4	25.9	38.9



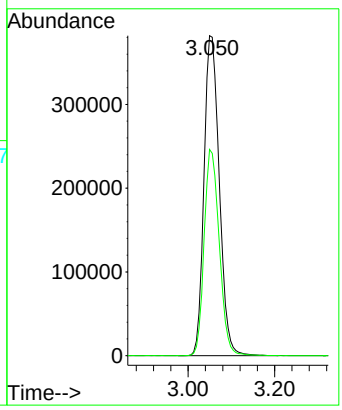


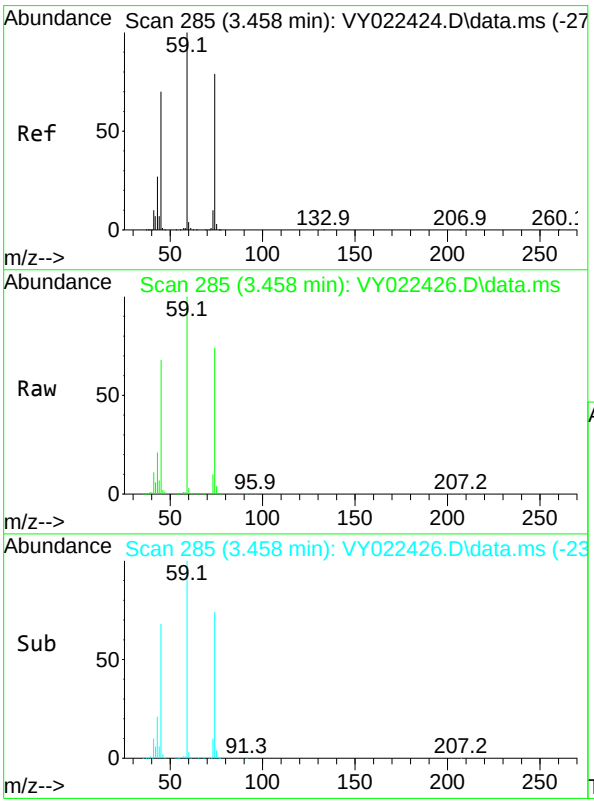
#7
Trichlorofluoromethane
Concen: 148.741 ug/l
RT: 3.050 min Scan# 21
Delta R.T. -0.006 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion:101 Resp: 935844

Ion	Ratio	Lower	Upper
101	100		
103	64.5	50.9	76.3

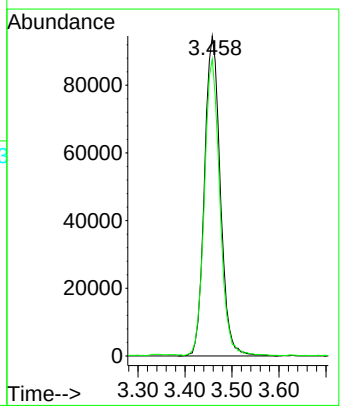


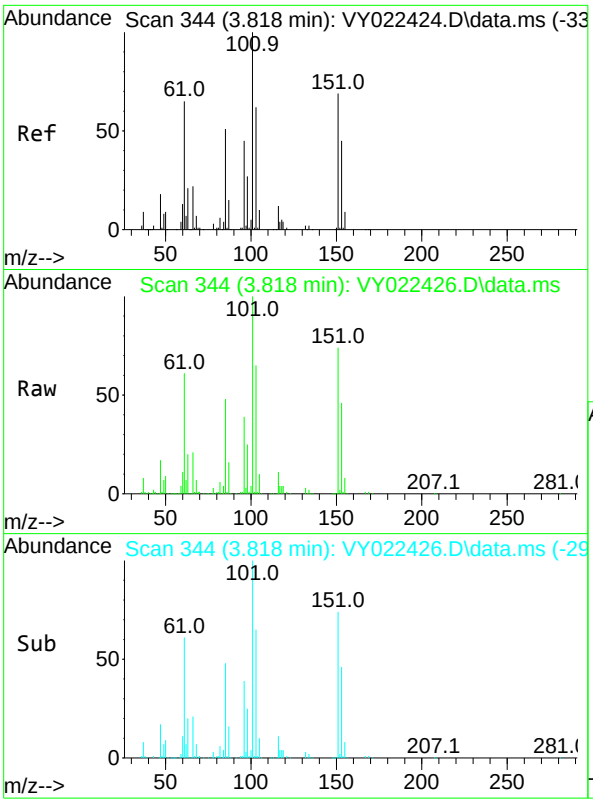


#8
Diethyl Ether
Concen: 152.083 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 74 Resp: 220632

Ion	Ratio	Lower	Upper
74	100		
45	90.7	44.9	134.5



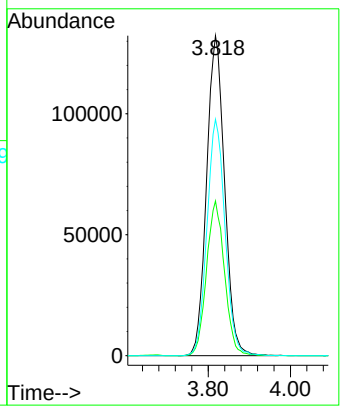


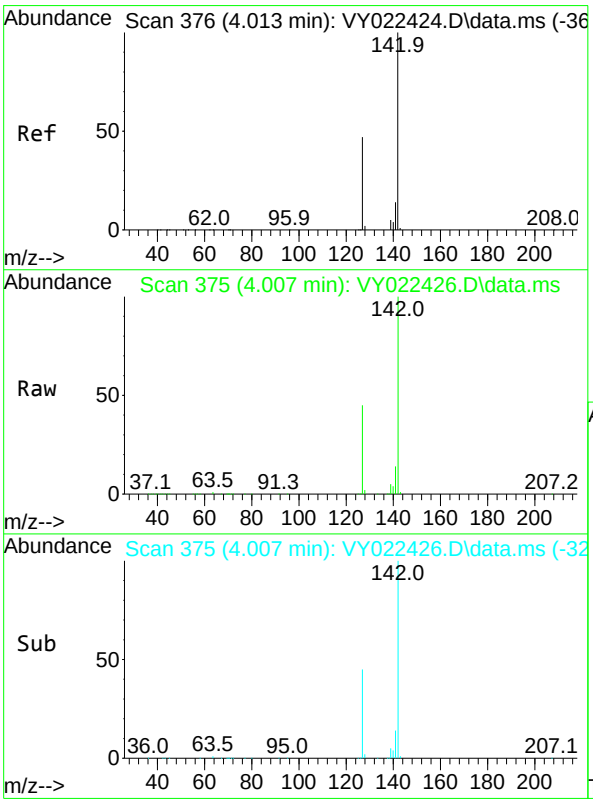
#9
1,1,2-Trichlorotrifluoroethane
Concen: 145.505 ug/l
RT: 3.818 min Scan# 34
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion:101 Resp: 401637

Ion	Ratio	Lower	Upper
101	100		
85	48.4	39.2	58.8
151	74.2	58.8	88.2

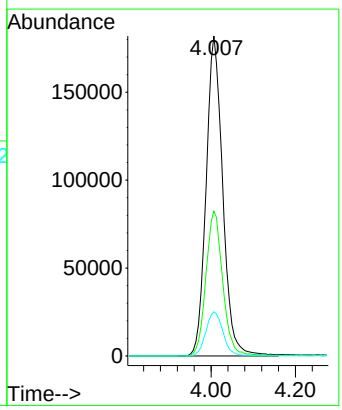


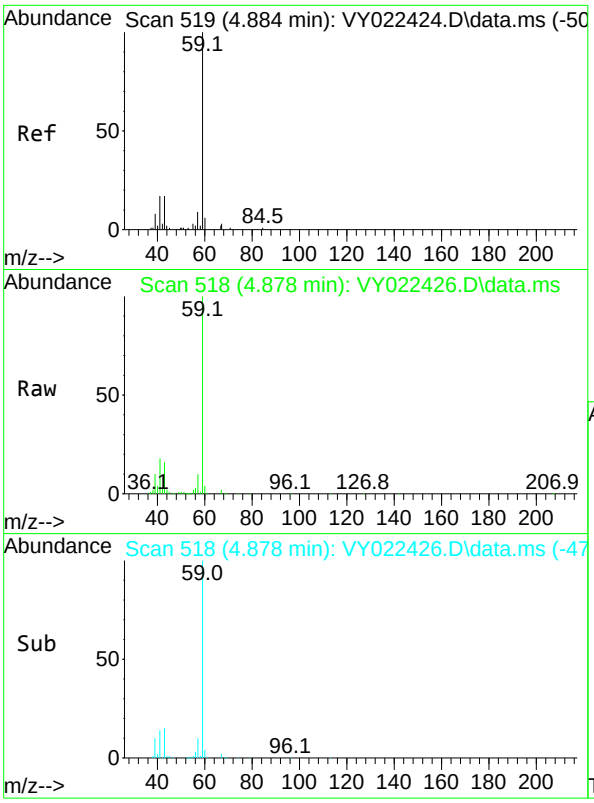


#10
Methyl Iodide
Concen: 160.432 ug/l
RT: 4.007 min Scan# 375
Delta R.T. -0.006 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion:142 Resp: 499602

Ion	Ratio	Lower	Upper
142	100		
127	45.7	36.2	54.4
141	14.2	11.6	17.4



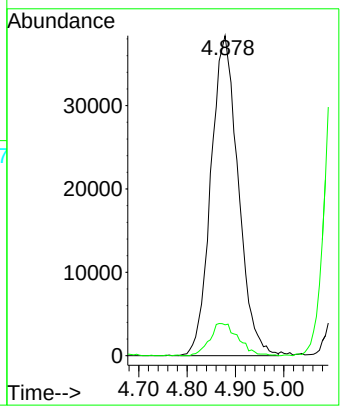


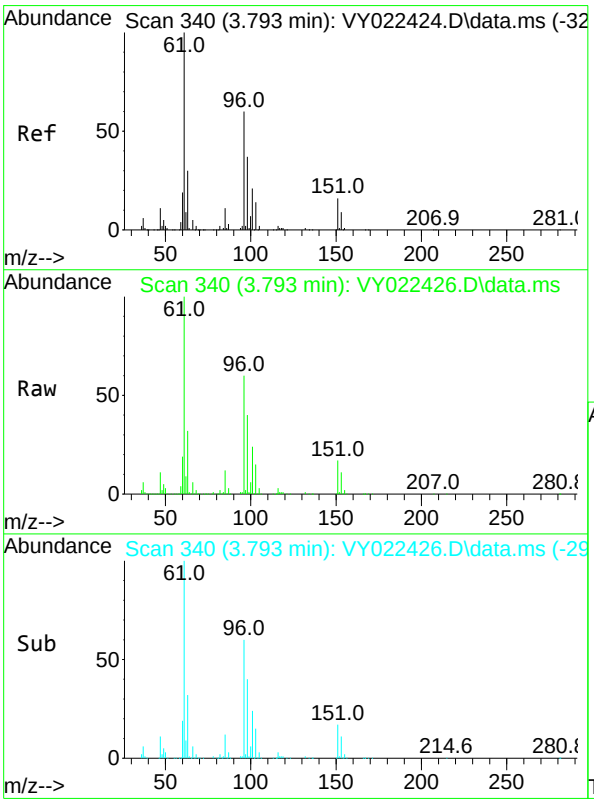
#11
Tert butyl alcohol
Concen: 773.981 ug/l
RT: 4.878 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 59 Resp: 150306

Ion	Ratio	Lower	Upper
59	100		
57	10.6	9.1	13.7

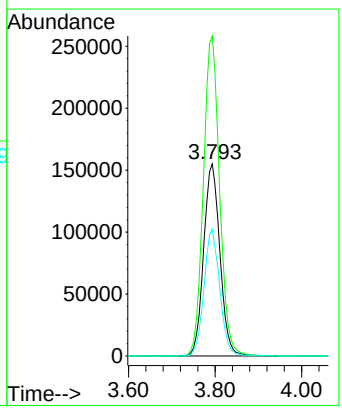


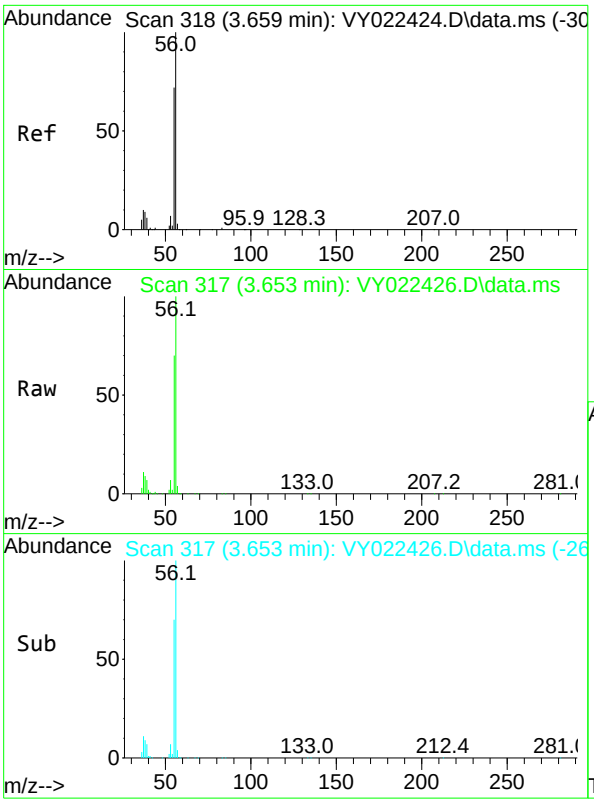


#12
1,1-Dichloroethene
Concen: 147.508 ug/l
RT: 3.793 min Scan# 340
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 96 Resp: 404241

Ion	Ratio	Lower	Upper
96	100		
61	166.5	134.1	201.1
98	66.0	50.2	75.2



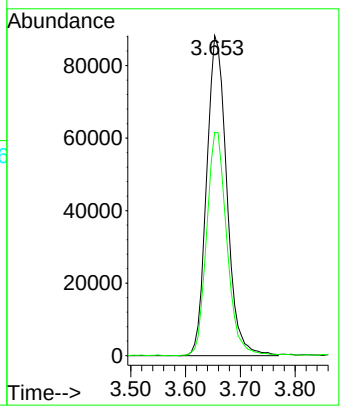


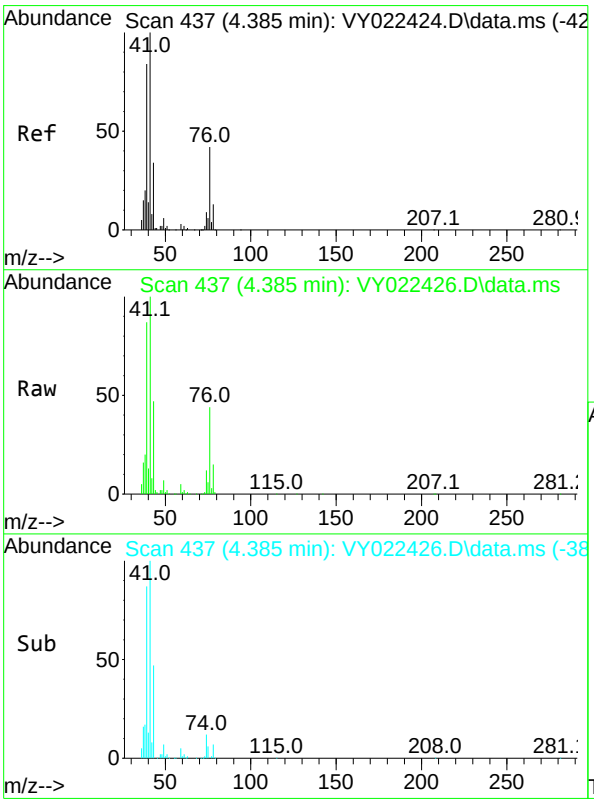
#13
Acrolein
Concen: 772.427 ug/l
RT: 3.653 min Scan# 3
Delta R.T. -0.006 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 56 Resp: 224761

Ion	Ratio	Lower	Upper
56	100		
55	70.1	56.5	84.7

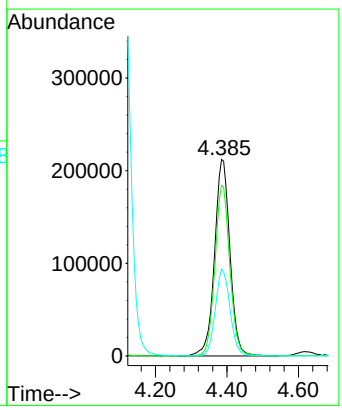


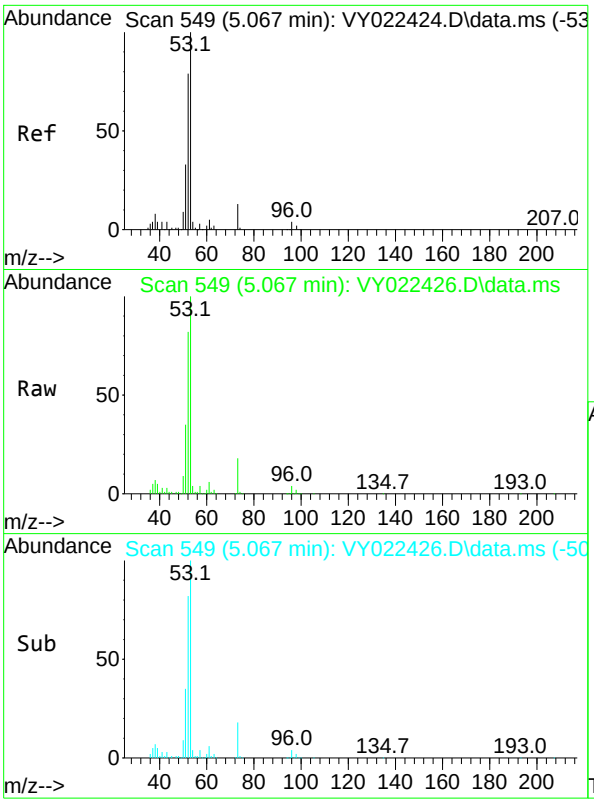


#14
Allyl chloride
Concen: 153.977 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 41 Resp: 634755

Ion	Ratio	Lower	Upper
41	100		
39	84.2	66.6	100.0
76	42.2	33.7	50.5



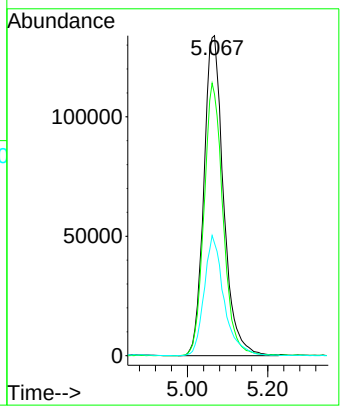


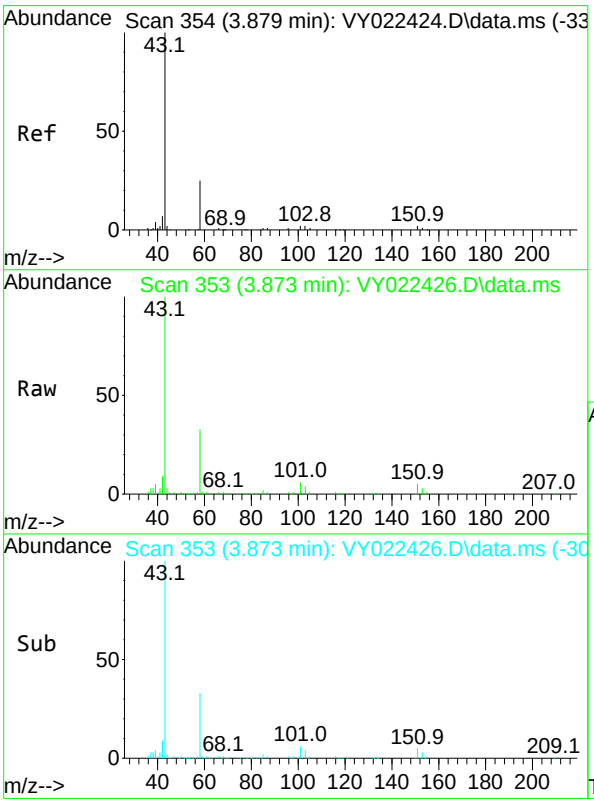
#15
Acrylonitrile
Concen: 778.419 ug/l
RT: 5.067 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 53 Resp: 455189

Ion	Ratio	Lower	Upper
53	100		
52	82.5	65.1	97.7
51	38.0	30.0	45.0

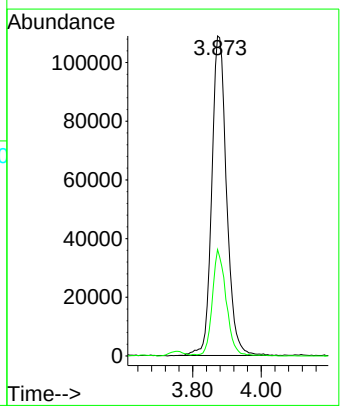


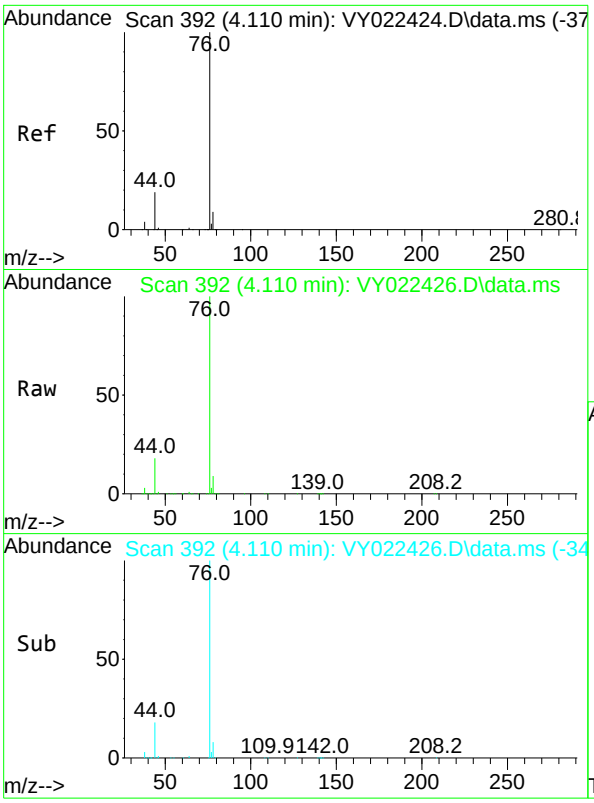


#16
Acetone
Concen: 722.994 ug/l
RT: 3.873 min Scan# 353
Delta R.T. -0.006 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 43 Resp: 327320

Ion	Ratio	Lower	Upper
43	100		
58	33.3	20.6	30.8#



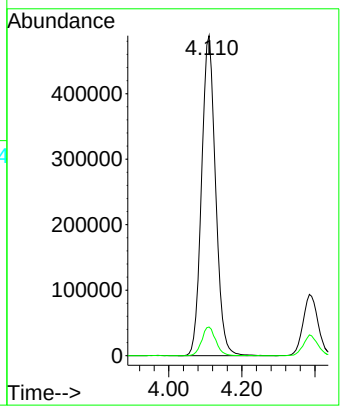


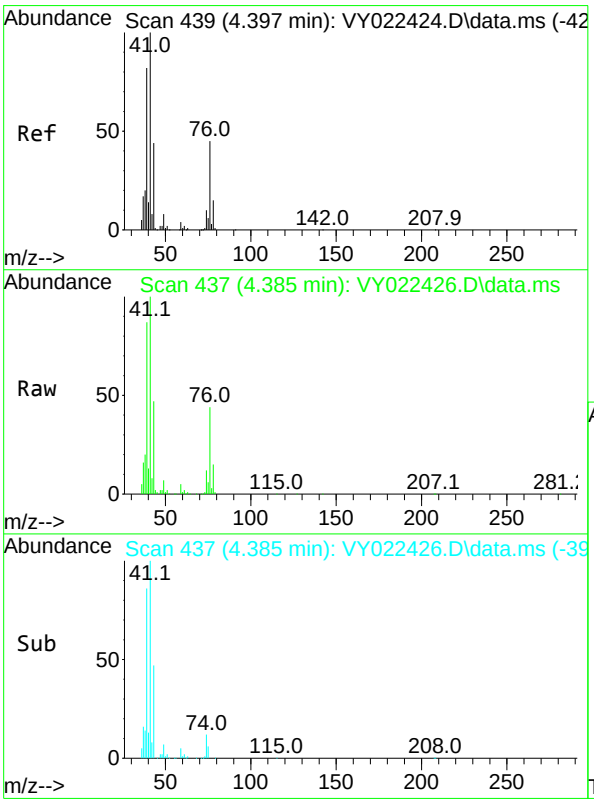
#17
Carbon Disulfide
Concen: 148.080 ug/l
RT: 4.110 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 76 Resp: 1295027

Ion	Ratio	Lower	Upper
76	100		
78	9.0	7.2	10.8

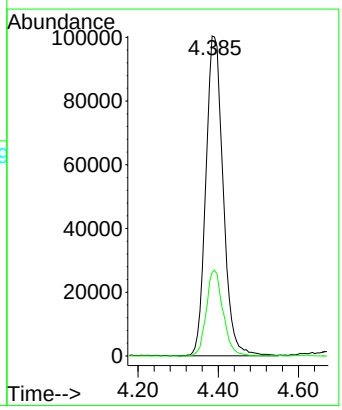


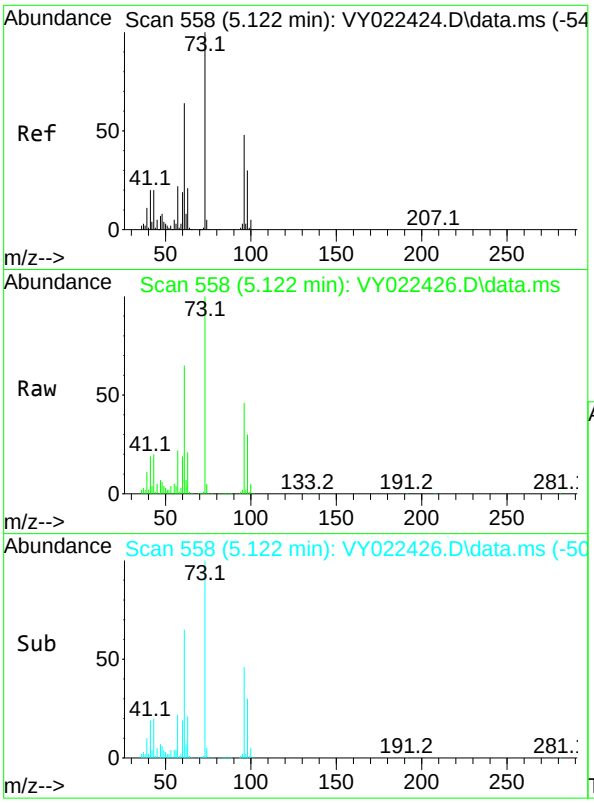


#18
Methyl Acetate
Concen: 177.047 ug/l
RT: 4.385 min Scan# 437
Delta R.T. -0.012 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 43 Resp: 300253

Ion	Ratio	Lower	Upper
43	100		
74	26.1	21.2	31.8



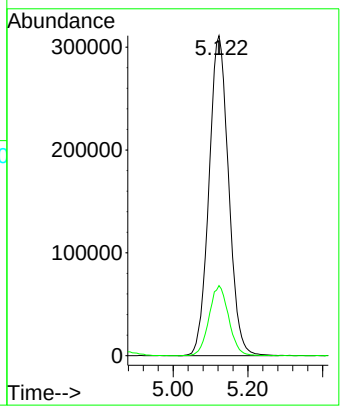


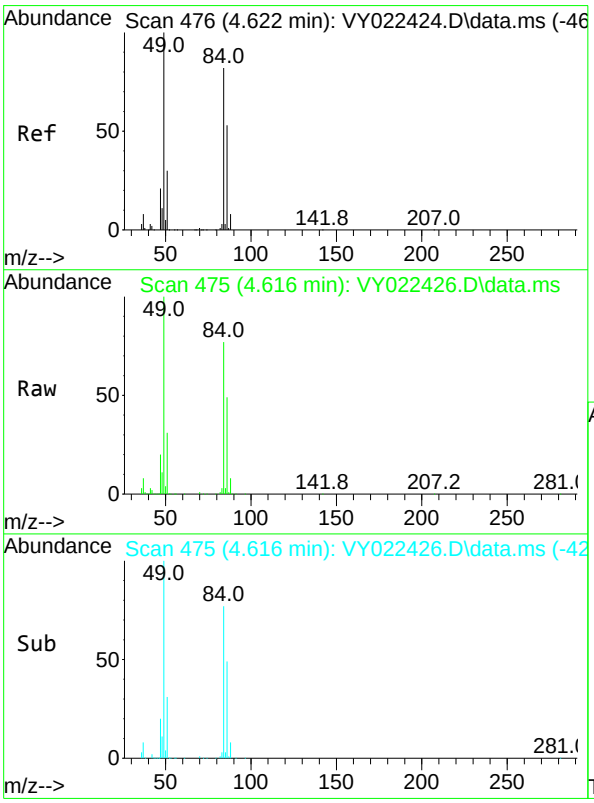
#19
Methyl tert-butyl Ether
Concen: 155.888 ug/l
RT: 5.122 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 73 Resp: 1134189

Ion	Ratio	Lower	Upper
73	100		
57	21.9	17.7	26.5

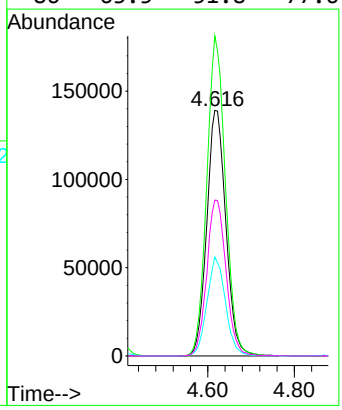


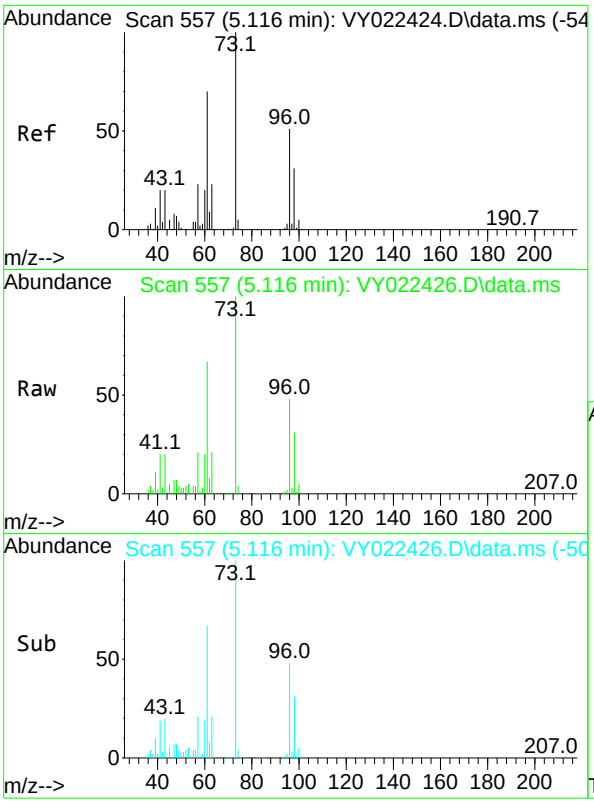


#20
Methylene Chloride
Concen: 133.322 ug/l
RT: 4.616 min Scan# 475
Delta R.T. -0.006 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 84 Resp: 426225

Ion	Ratio	Lower	Upper
84	100		
49	130.3	97.8	146.8
51	40.3	29.5	44.3
86	63.5	51.8	77.6



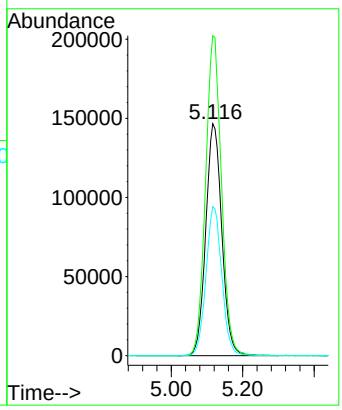


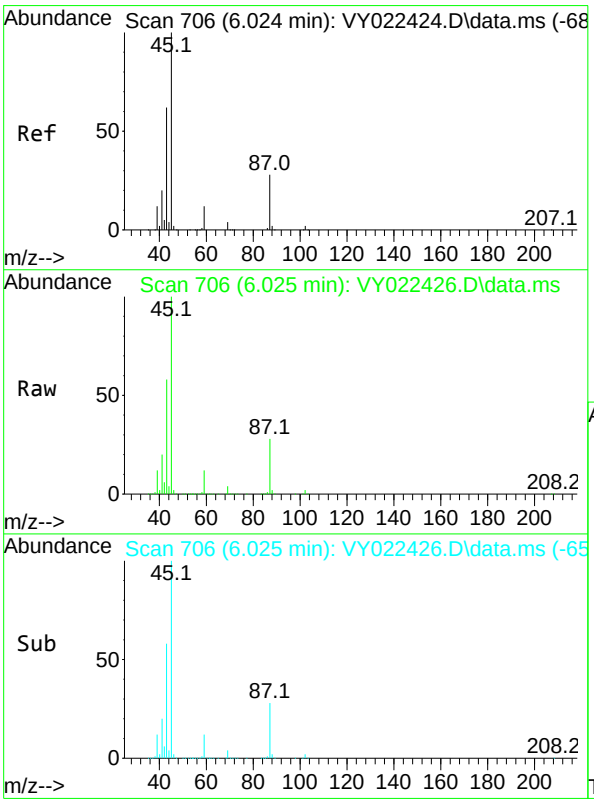
#21
trans-1,2-Dichloroethene
Concen: 152.698 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 96 Resp: 456846

Ion	Ratio	Lower	Upper
96	100		
61	137.9	110.4	165.6
98	64.3	48.6	73.0

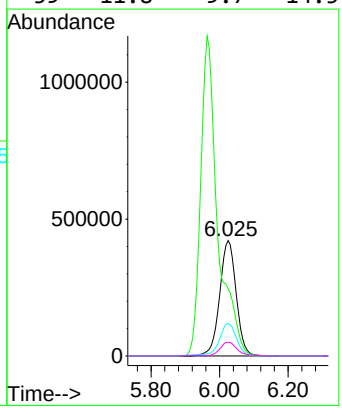


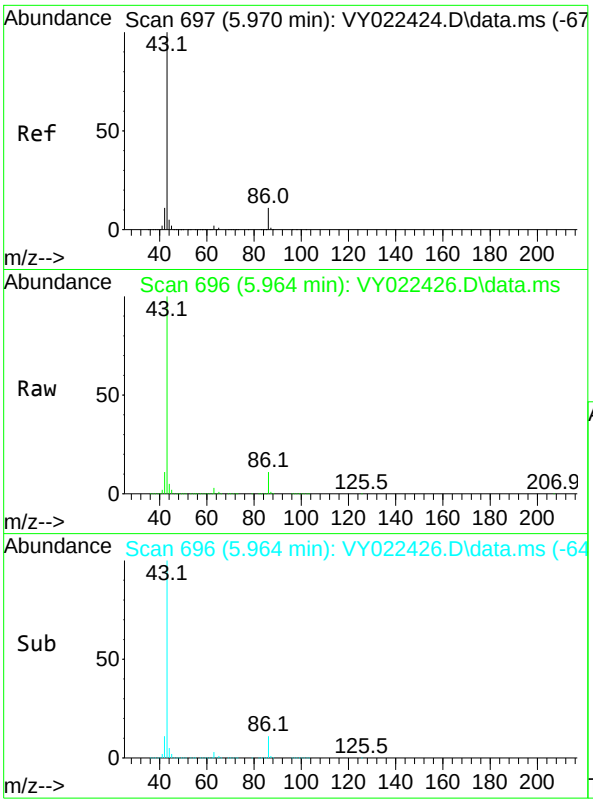


#22
Diisopropyl ether
Concen: 154.338 ug/l
RT: 6.025 min Scan# 706
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 45 Resp: 1404193

Ion	Ratio	Lower	Upper
45	100		
43	58.3	49.8	74.8
87	28.2	23.0	34.6
59	11.8	9.7	14.5



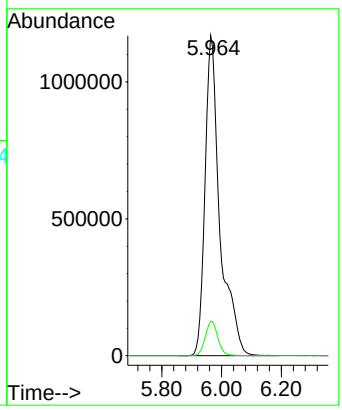


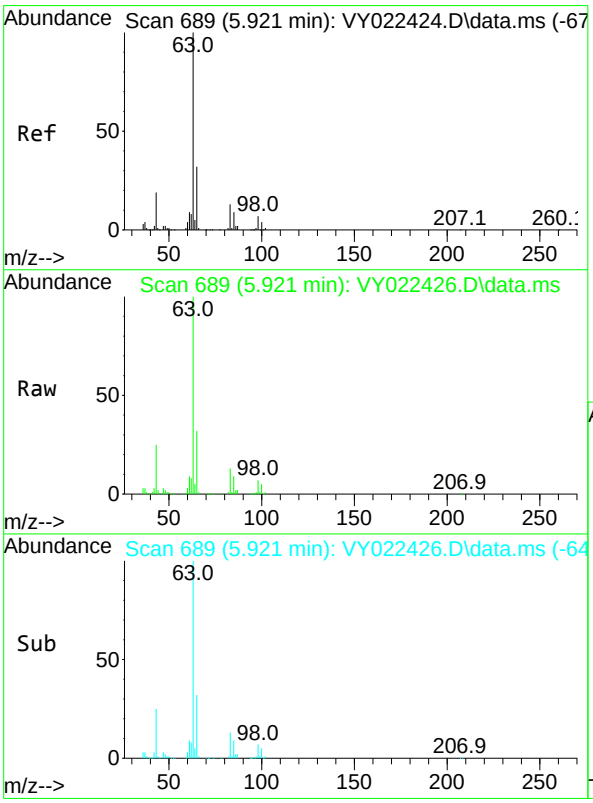
#23
Vinyl Acetate
Concen: 773.807 ug/l
RT: 5.964 min Scan# 6
Delta R.T. -0.006 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 4042390

Ion	Ratio	Lower	Upper
43	100		
86	10.8	8.8	13.2

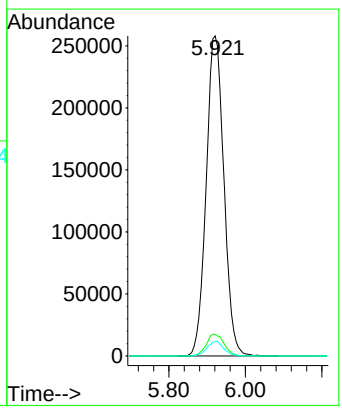


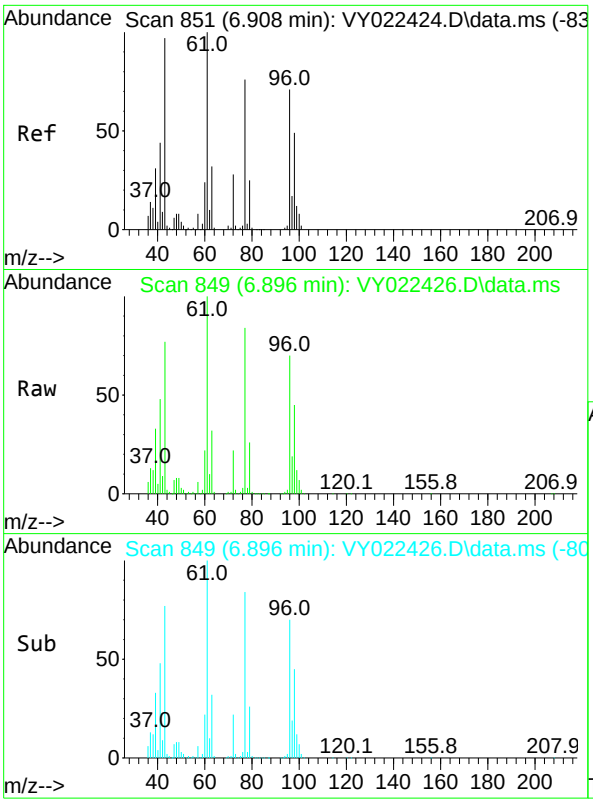


#24
1,1-Dichloroethane
Concen: 154.149 ug/l
RT: 5.921 min Scan# 689
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 63 Resp: 828730

Ion	Ratio	Lower	Upper
63	100		
98	6.7	3.5	10.5
100	4.5	2.1	6.5



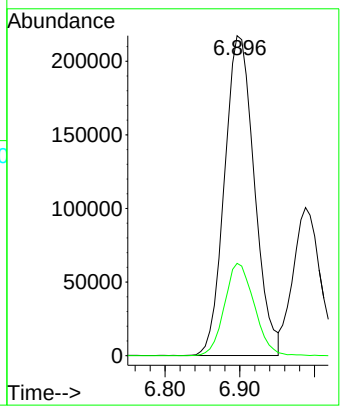


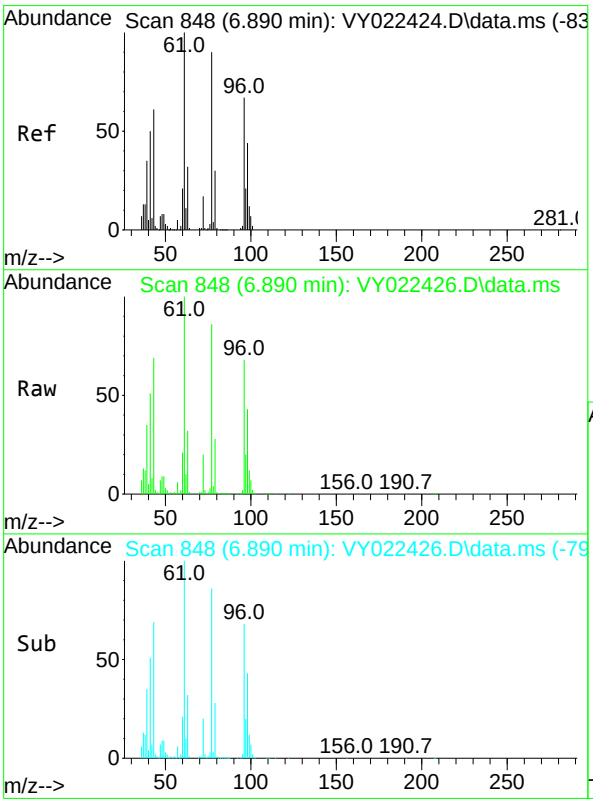
#25
2-Butanone
Concen: 800.866 ug/l
RT: 6.896 min Scan# 84
Delta R.T. -0.012 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 603839

Ion	Ratio	Lower	Upper
43	100		
72	28.9	22.8	34.2

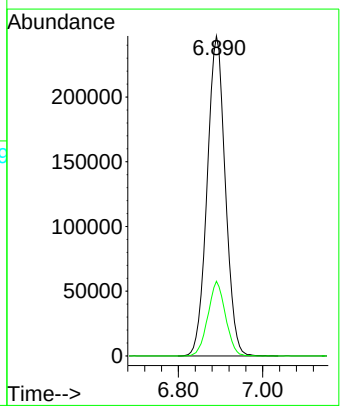


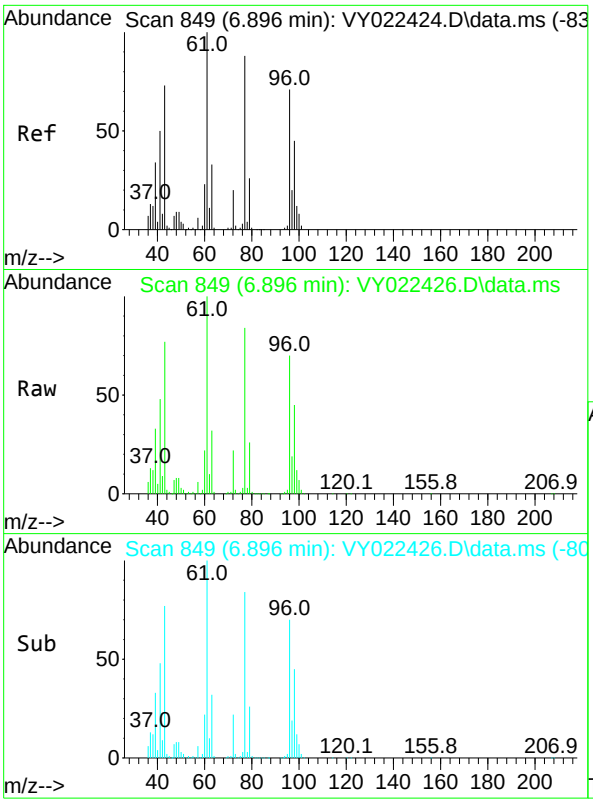


#26
2,2-Dichloropropane
Concen: 151.572 ug/l
RT: 6.890 min Scan# 848
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 77 Resp: 737854

Ion	Ratio	Lower	Upper
77	100		
97	22.6	11.6	34.7



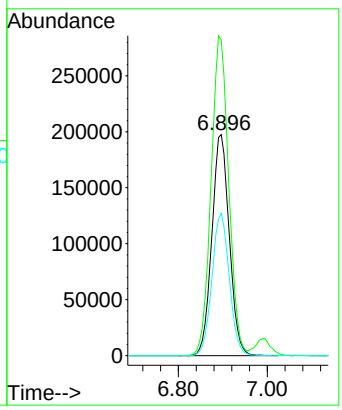


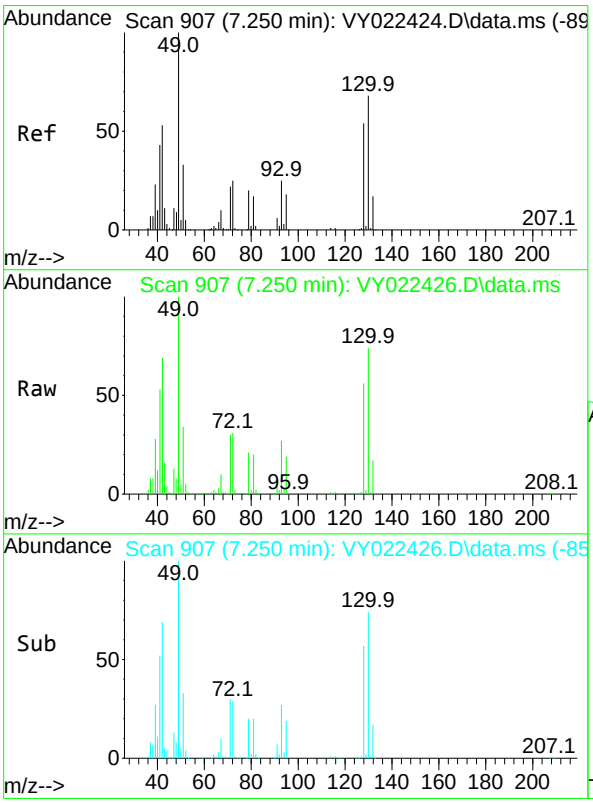
#27
cis-1,2-Dichloroethene
Concen: 155.137 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 96 Resp: 537325

Ion	Ratio	Lower	Upper
96	100		
61	146.3	0.0	292.0
98	64.2	0.0	131.0

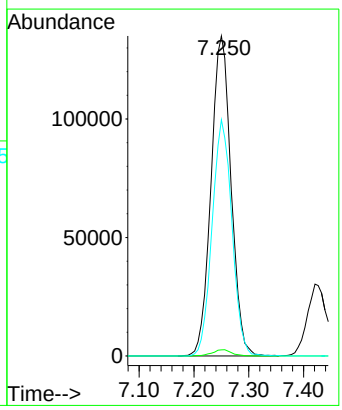


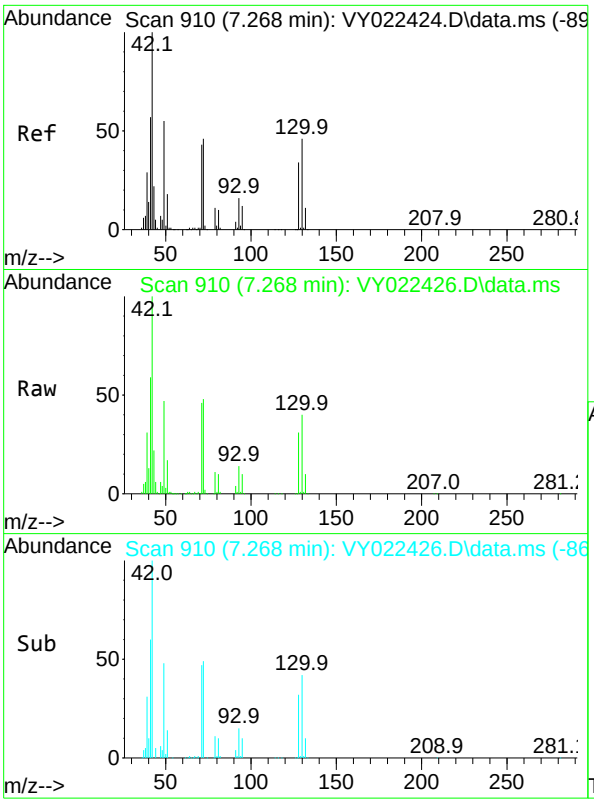


#28
Bromochloromethane
Concen: 152.635 ug/l
RT: 7.250 min Scan# 907
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 49 Resp: 342656

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	4.0
130	73.0	56.9	85.3



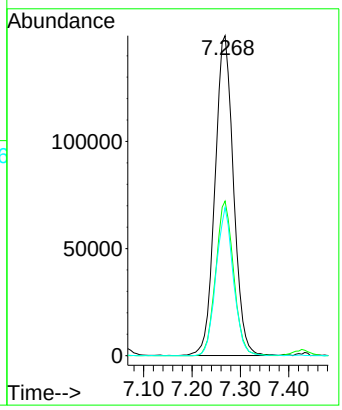


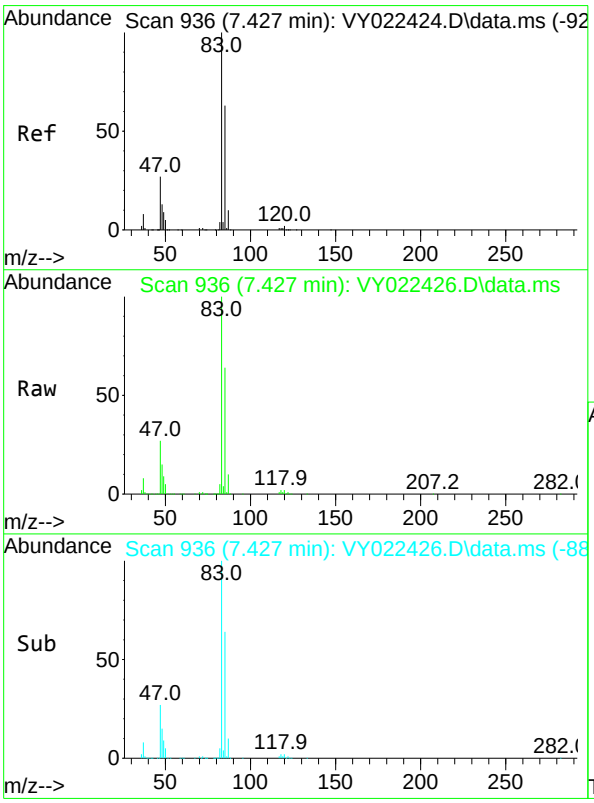
#29
Tetrahydrofuran
Concen: 790.090 ug/l
RT: 7.268 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 42 Resp: 397295

Ion	Ratio	Lower	Upper
42	100		
72	46.7	37.7	56.5
71	43.4	34.7	52.1

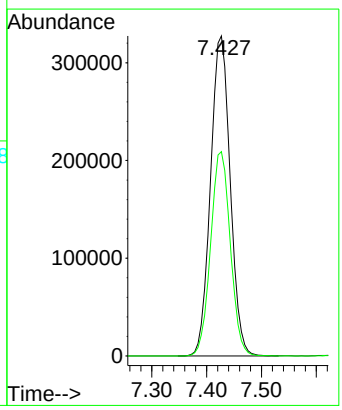


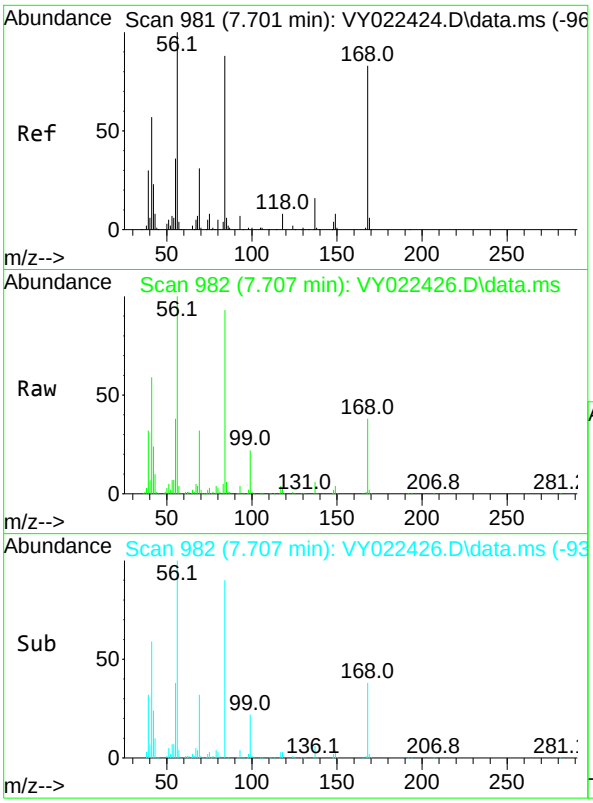


#30
Chloroform
Concen: 153.787 ug/l
RT: 7.427 min Scan# 936
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 83 Resp: 814685

Ion	Ratio	Lower	Upper
83	100		
85	63.9	50.1	75.1



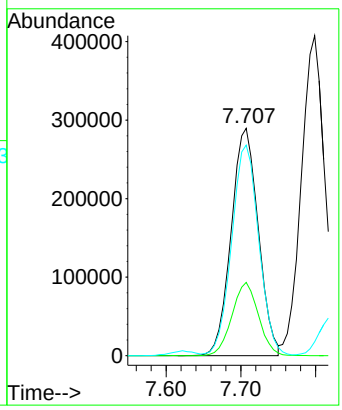


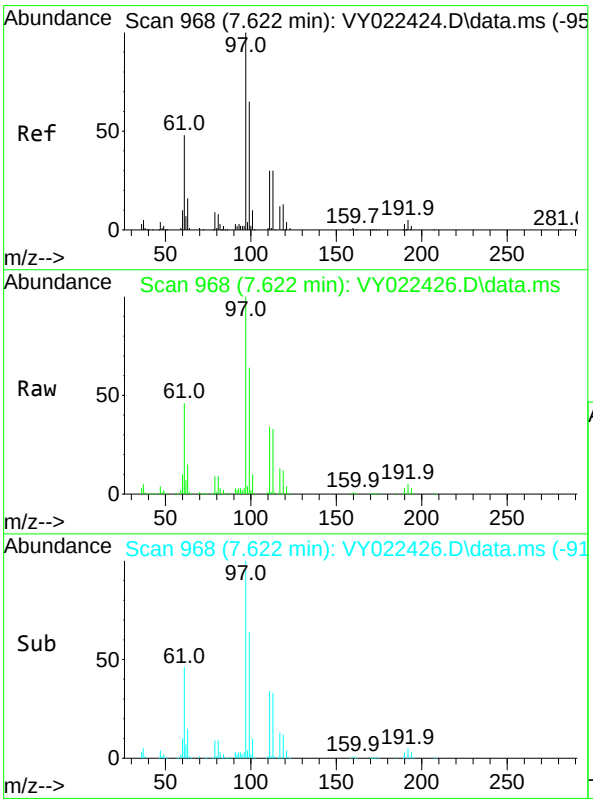
#31
Cyclohexane
Concen: 137.826 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 56 Resp: 730410

Ion	Ratio	Lower	Upper
56	100		
69	32.3	24.6	36.8
84	90.9	70.4	105.6

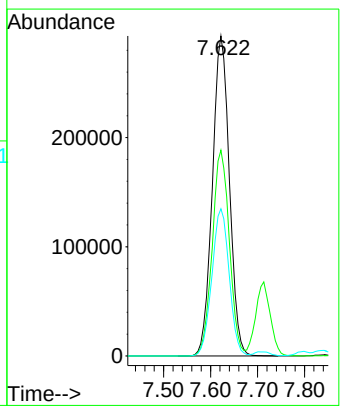


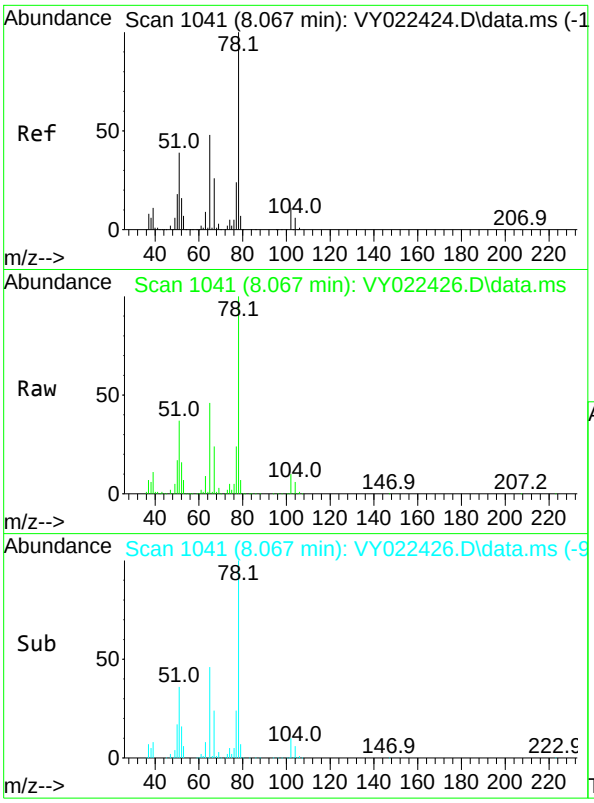


#32
1,1,1-Trichloroethane
Concen: 153.436 ug/l
RT: 7.622 min Scan# 968
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 97 Resp: 737686

Ion	Ratio	Lower	Upper
97	100		
99	64.5	51.3	76.9
61	46.8	37.3	55.9



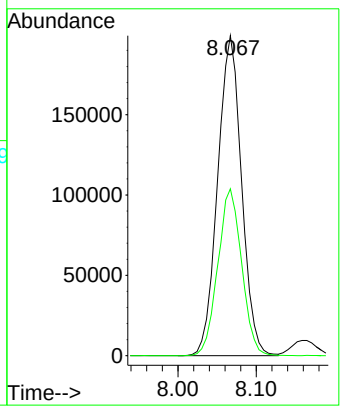


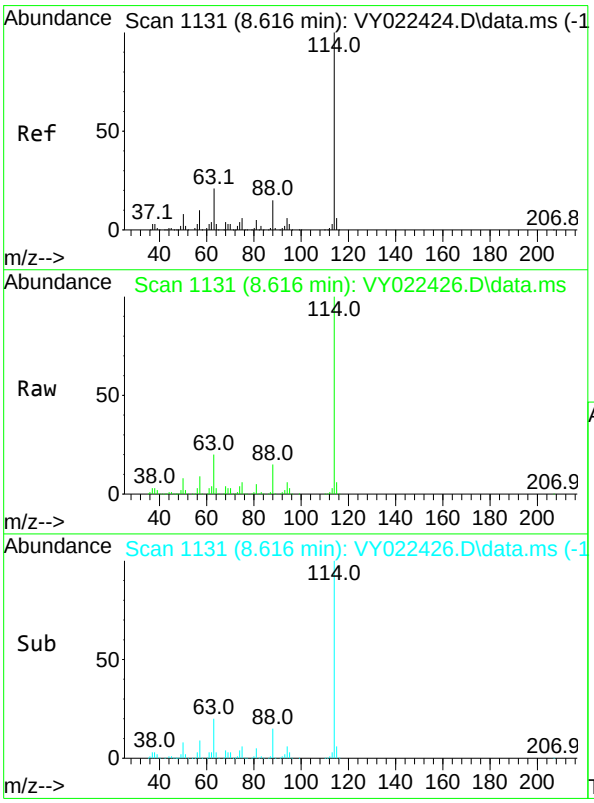
#33
1,2-Dichloroethane-d4
Concen: 153.366 ug/l
RT: 8.067 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 65 Resp: 422539

Ion	Ratio	Lower	Upper
65	100		
67	52.0	0.0	104.4

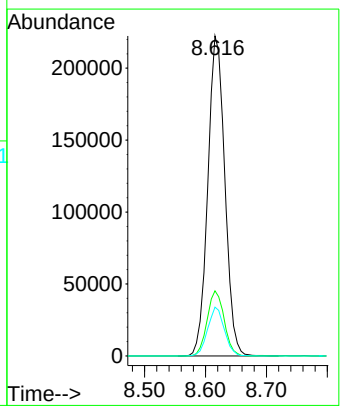


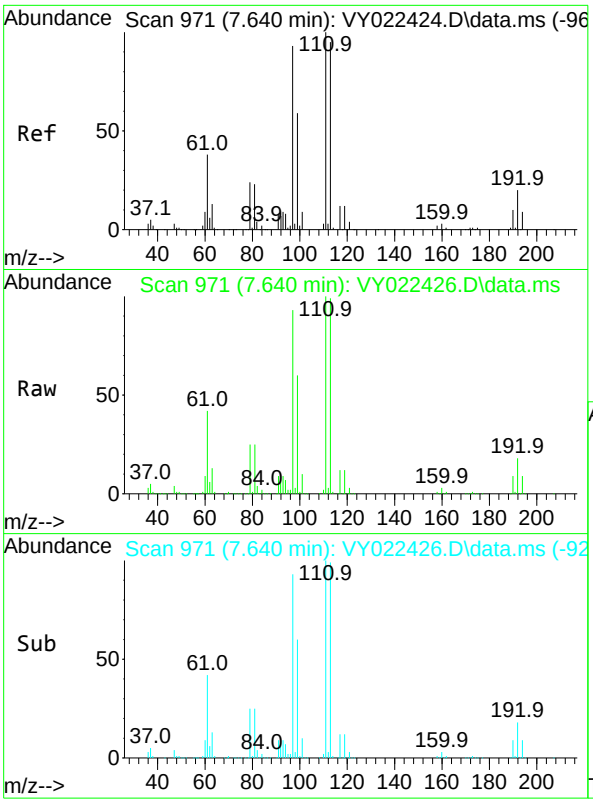


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion:114 Resp: 431909

Ion	Ratio	Lower	Upper
114	100		
63	20.3	0.0	42.6
88	15.3	0.0	29.4



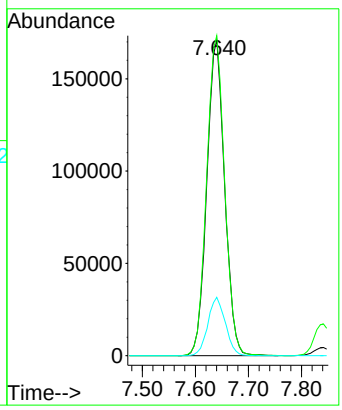


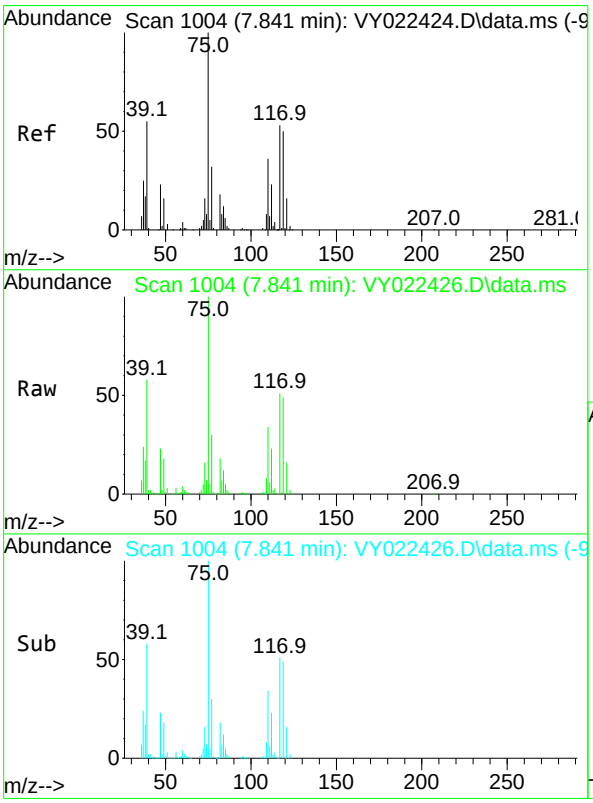
#35
Dibromofluoromethane
Concen: 157.523 ug/l
RT: 7.640 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion:113 Resp: 398438

Ion	Ratio	Lower	Upper
113	100		
111	102.8	82.4	123.6
192	18.2	15.2	22.8

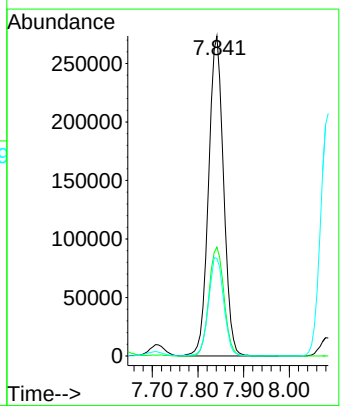


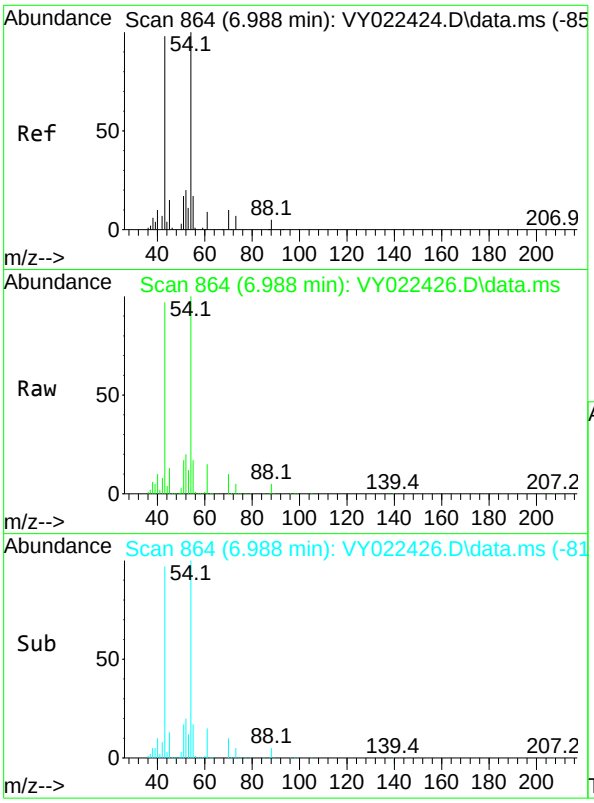


#36
1,1-Dichloropropene
Concen: 155.342 ug/l
RT: 7.841 min Scan# 1004
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 75 Resp: 623501

Ion	Ratio	Lower	Upper
75	100		
110	34.3	17.1	51.2
77	31.2	25.1	37.7



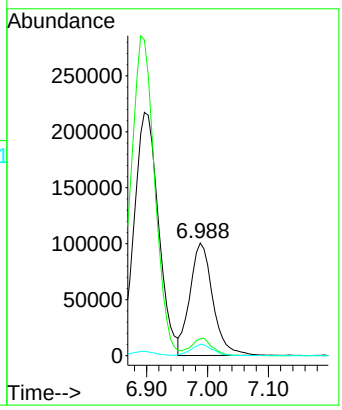


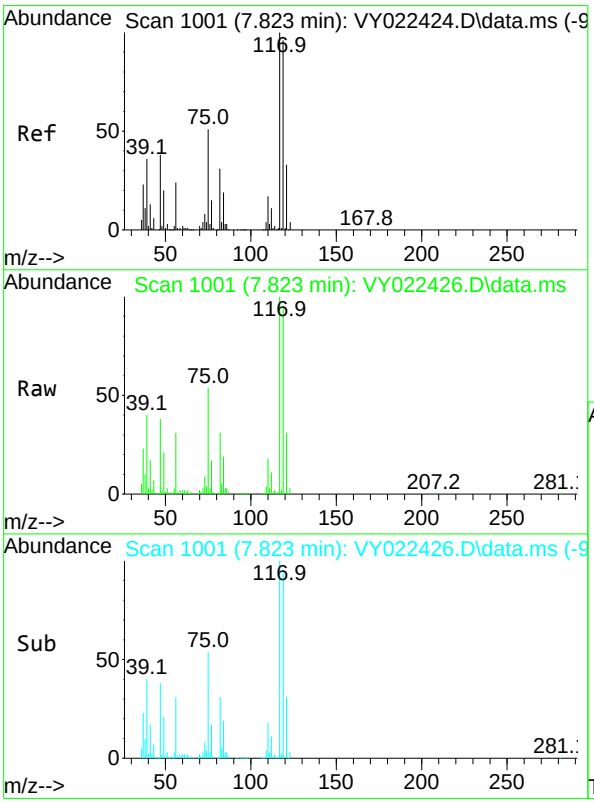
#37
Ethyl Acetate
Concen: 153.581 ug/l
RT: 6.988 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 261975

Ion	Ratio	Lower	Upper
43	100		
61	14.1	11.7	17.5
70	9.5	7.8	11.6

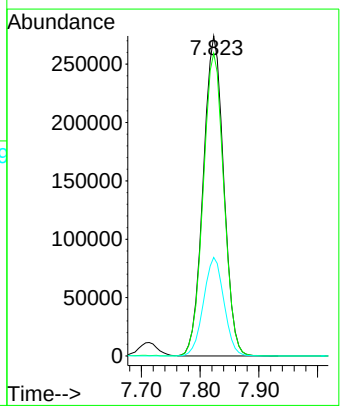


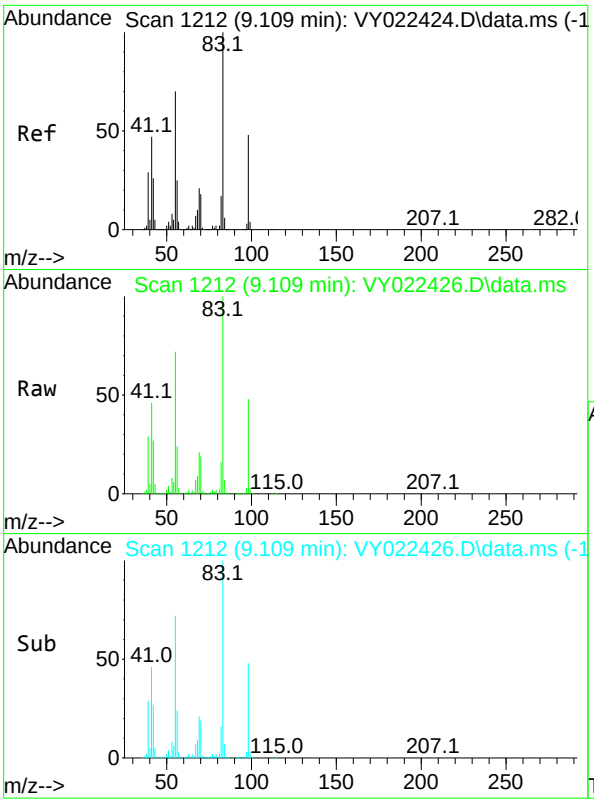


#38
Carbon Tetrachloride
Concen: 158.776 ug/l
RT: 7.823 min Scan# 1001
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion:117 Resp: 663867

Ion	Ratio	Lower	Upper
117	100		
119	94.6	76.3	114.5
121	30.8	26.1	39.1



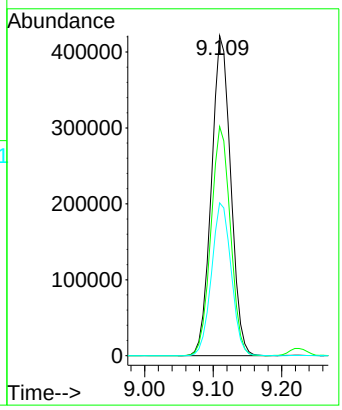


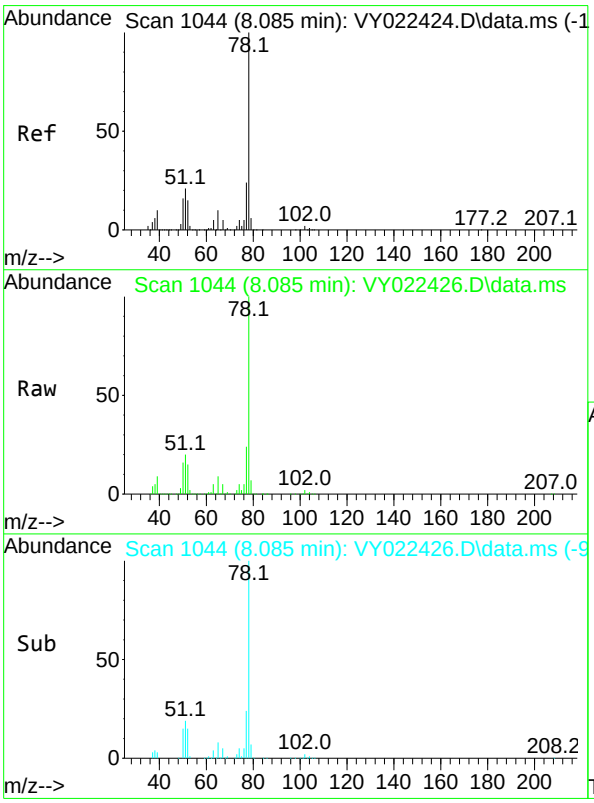
#39
Methylcyclohexane
Concen: 154.561 ug/l
RT: 9.109 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 83 Resp: 824642

Ion	Ratio	Lower	Upper
83	100		
55	71.6	56.2	84.2
98	47.7	38.4	57.6

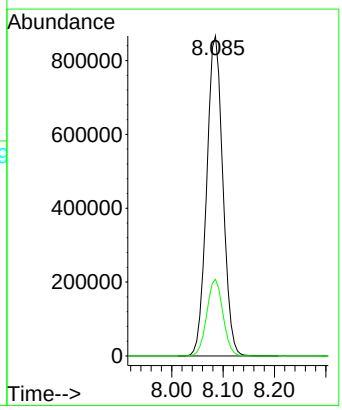


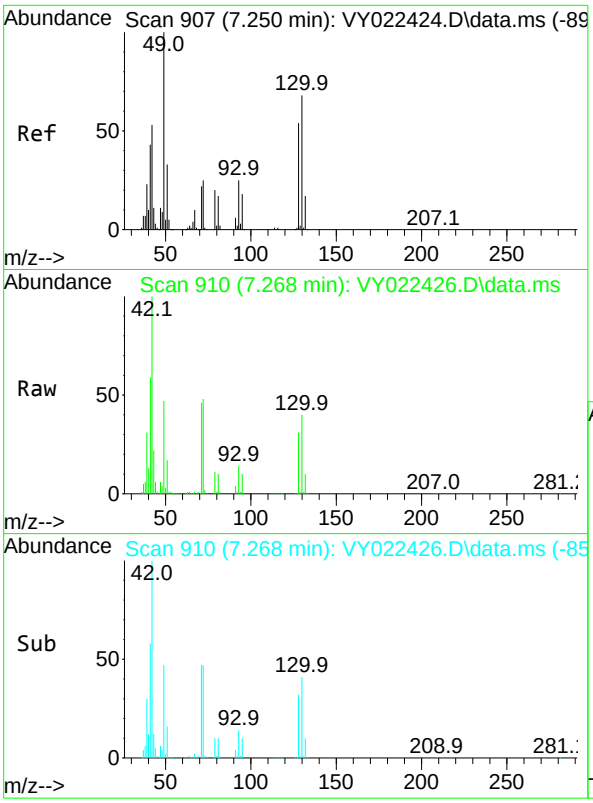


#40
Benzene
Concen: 158.501 ug/l
RT: 8.085 min Scan# 1044
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 78 Resp: 1893003

Ion	Ratio	Lower	Upper
78	100		
77	23.9	19.4	29.2



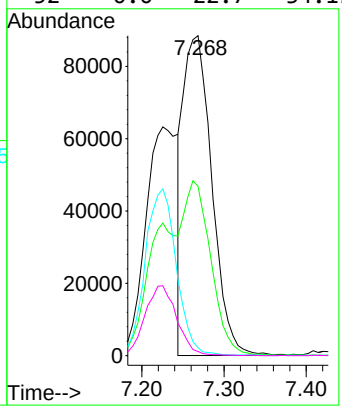


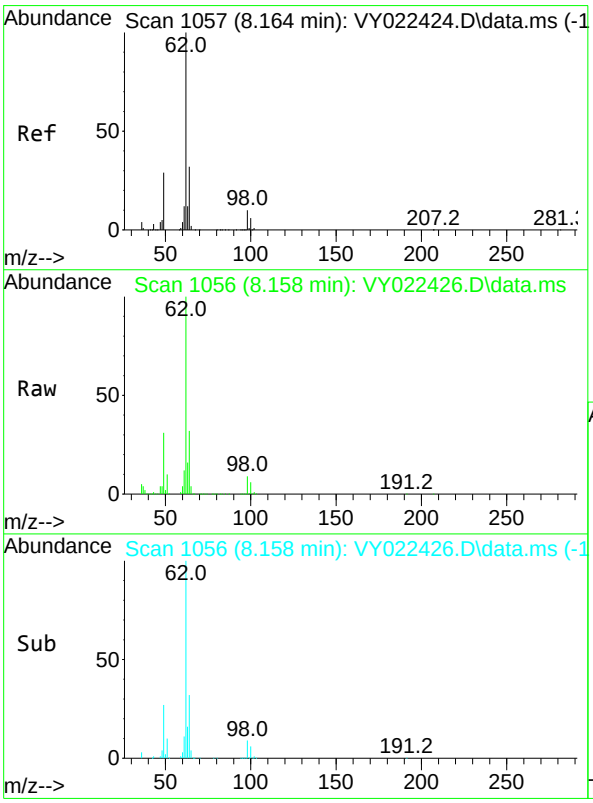
#41
Methacrylonitrile
Concen: 206.859 ug/l
RT: 7.268 min Scan# 9
Delta R.T. 0.018 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 41 Resp: 214162

Ion	Ratio	Lower	Upper
41	100		
39	52.3	40.4	60.6
67	0.0	53.0	79.4#
52	0.0	22.7	34.1#

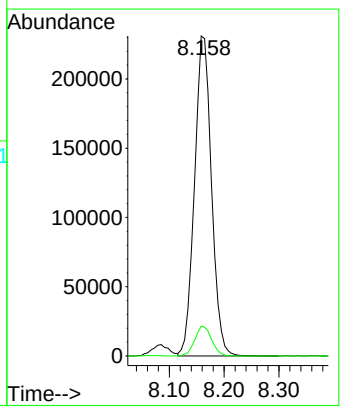


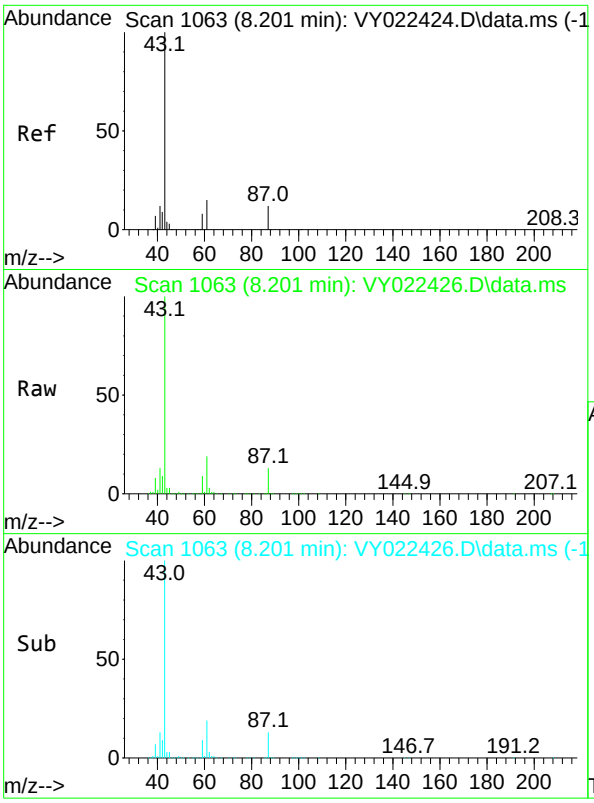


#42
1,2-Dichloroethane
Concen: 157.877 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. -0.006 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 62 Resp: 497991

Ion	Ratio	Lower	Upper
62	100		
98	9.3	0.0	18.4



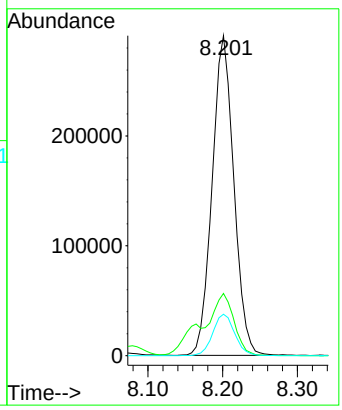


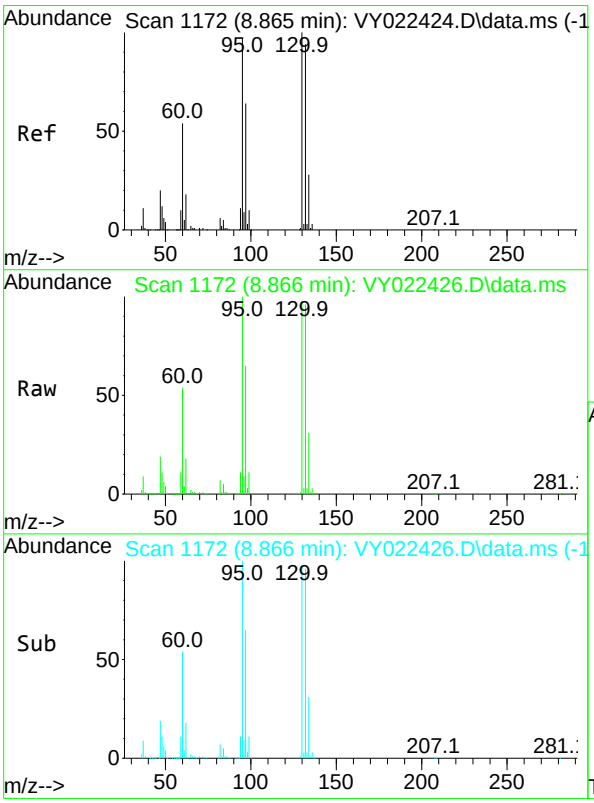
#43
Isopropyl Acetate
Concen: 157.564 ug/l
RT: 8.201 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 587308

Ion	Ratio	Lower	Upper
43	100		
61	19.1	15.4	23.0
87	13.2	10.6	15.8

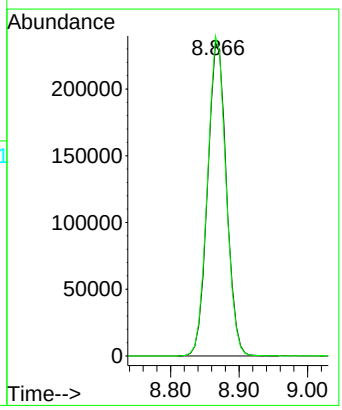


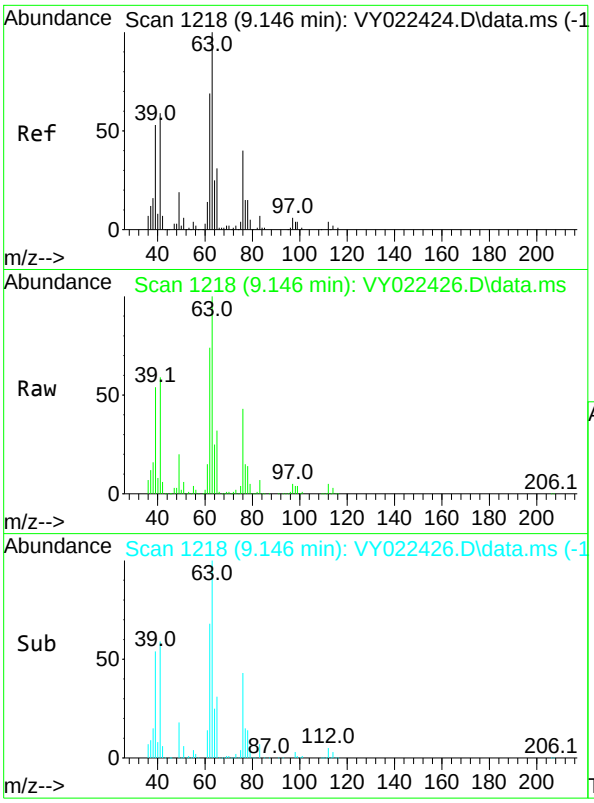


#44
Trichloroethene
Concen: 152.390 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion:130 Resp: 449921

Ion	Ratio	Lower	Upper
130	100		
95	102.1	0.0	194.8



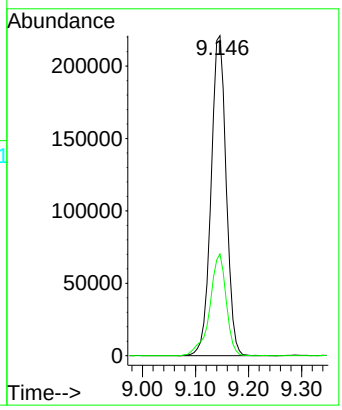


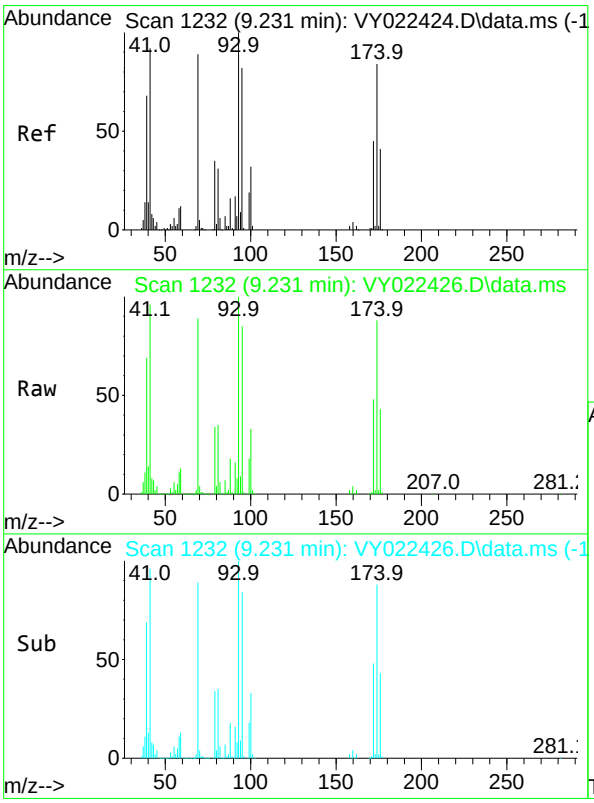
#45
1,2-Dichloropropane
Concen: 156.346 ug/l
RT: 9.146 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 63 Resp: 438721

Ion	Ratio	Lower	Upper
63	100		
65	31.8	25.1	37.7

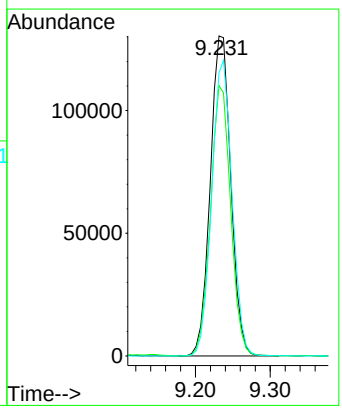


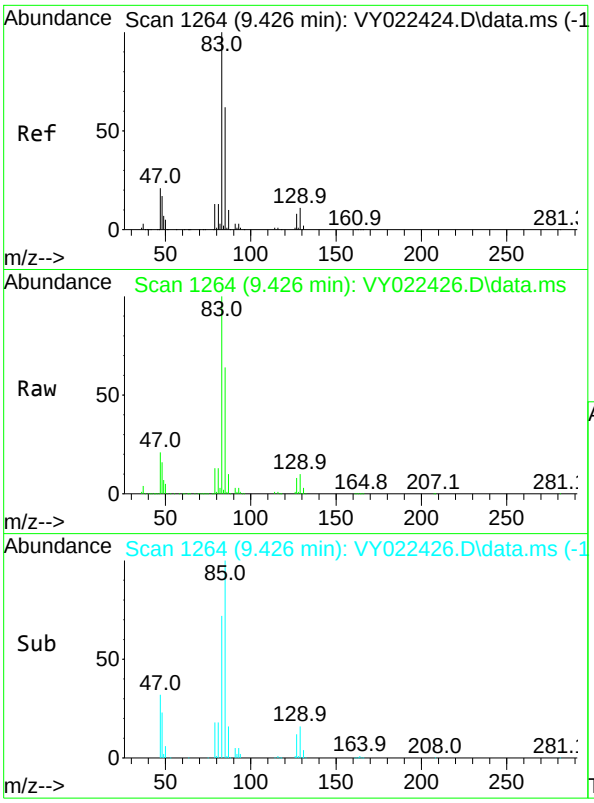


#46
Dibromomethane
Concen: 159.252 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 93 Resp: 249636

Ion	Ratio	Lower	Upper
93	100		
95	82.7	66.2	99.2
174	91.1	71.1	106.7



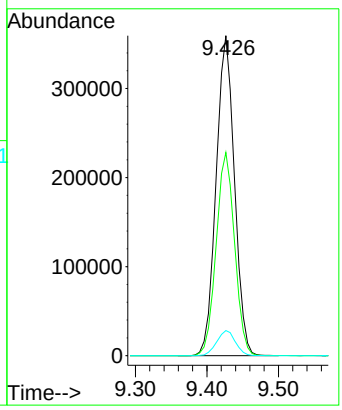


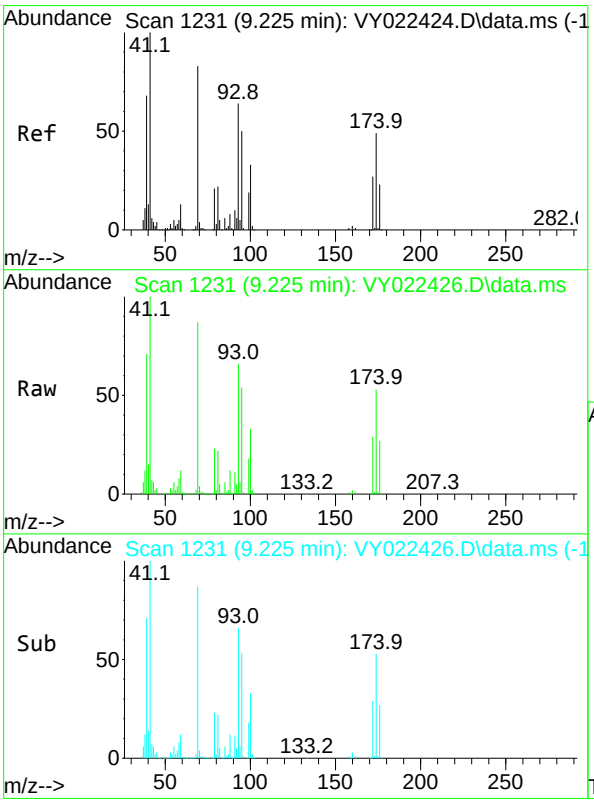
#47
Bromodichloromethane
Concen: 158.668 ug/l
RT: 9.426 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 83 Resp: 639597

Ion	Ratio	Lower	Upper
83	100		
85	63.5	49.8	74.6
127	7.8	6.6	9.8

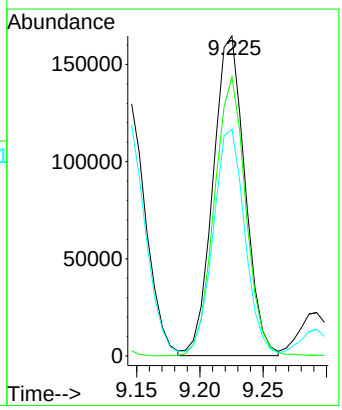


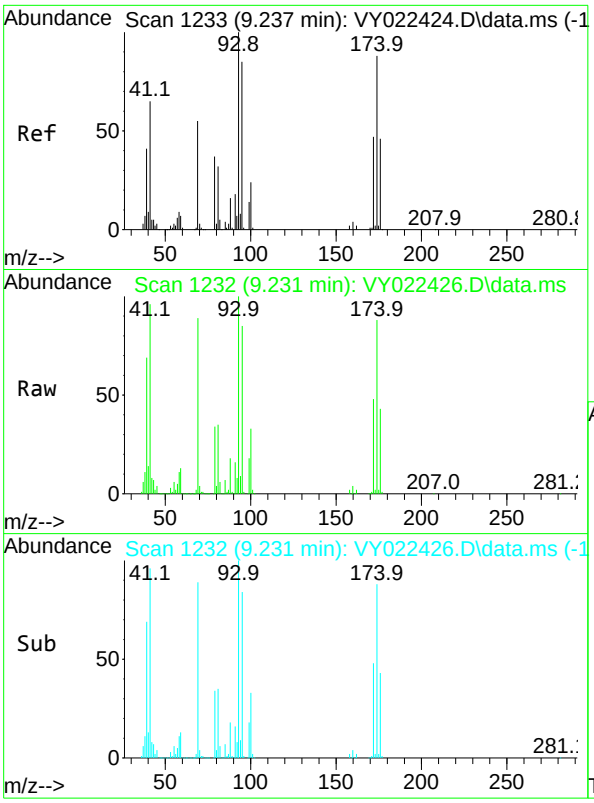


#48
Methyl methacrylate
Concen: 166.922 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 41 Resp: 288821

Ion	Ratio	Lower	Upper
41	100		
69	85.8	70.3	105.5
39	68.2	55.4	83.0



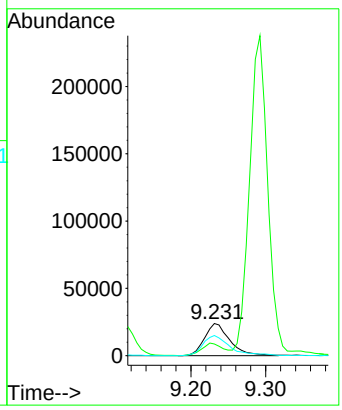


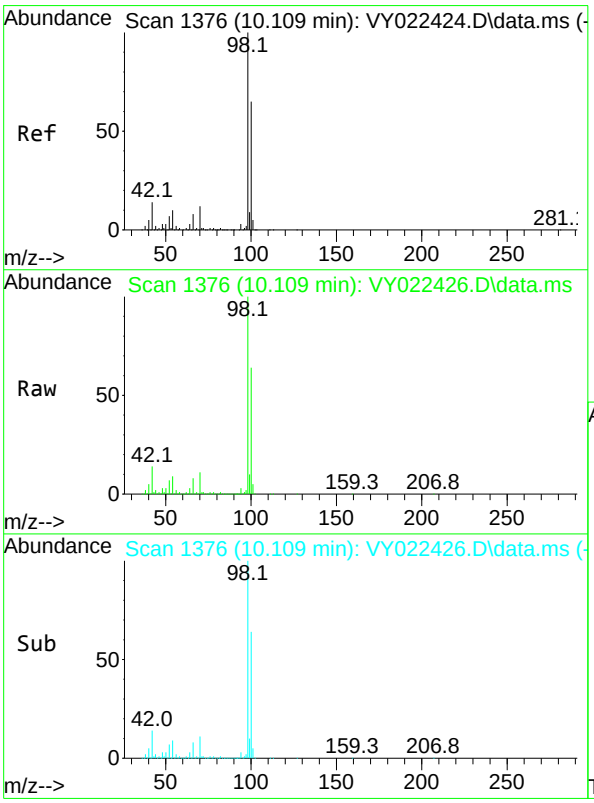
#49
1,4-Dioxane
Concen: 3228.011 ug/l
RT: 9.231 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 88 Resp: 55890

Ion	Ratio	Lower	Upper
88	100		
43	34.1	26.9	40.3
58	67.6	55.8	83.6

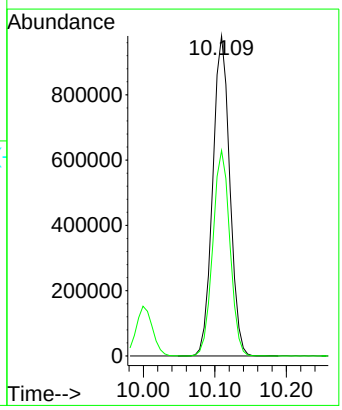


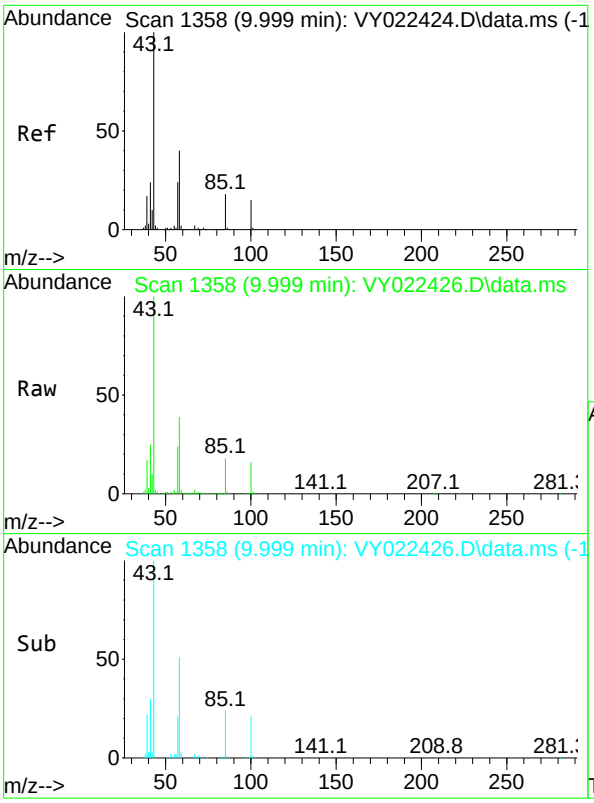


#50
Toluene-d8
Concen: 157.262 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 98 Resp: 1621564

Ion	Ratio	Lower	Upper
98	100		
100	64.4	52.2	78.2



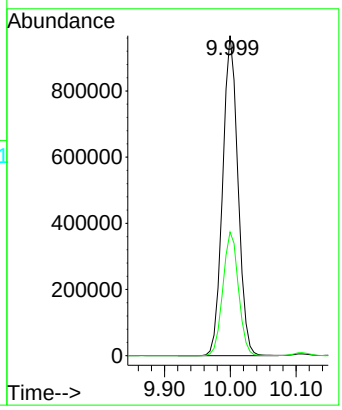


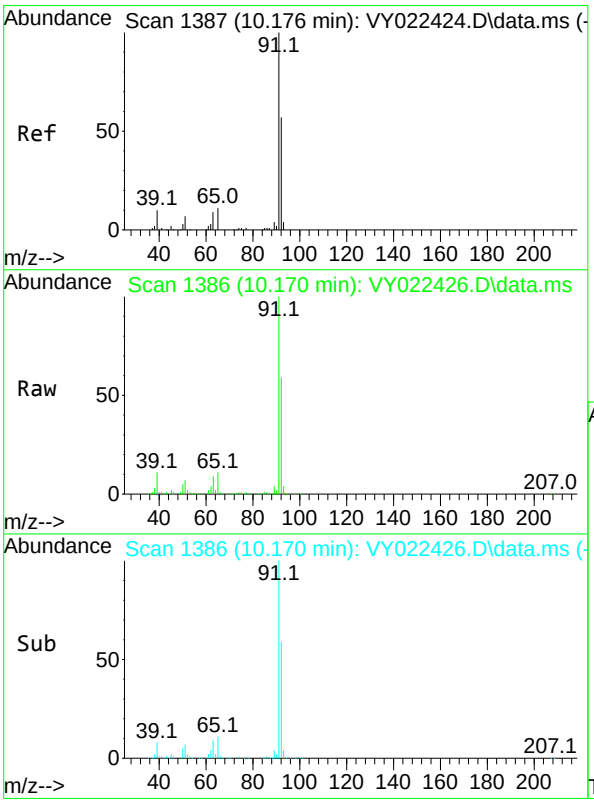
#51
4-Methyl-2-Pentanone
Concen: 851.310 ug/l
RT: 9.999 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 1565663

Ion	Ratio	Lower	Upper
43	100		
58	39.3	31.2	46.8

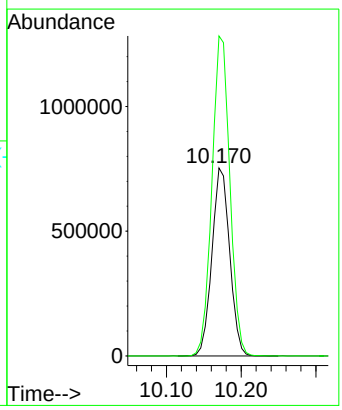


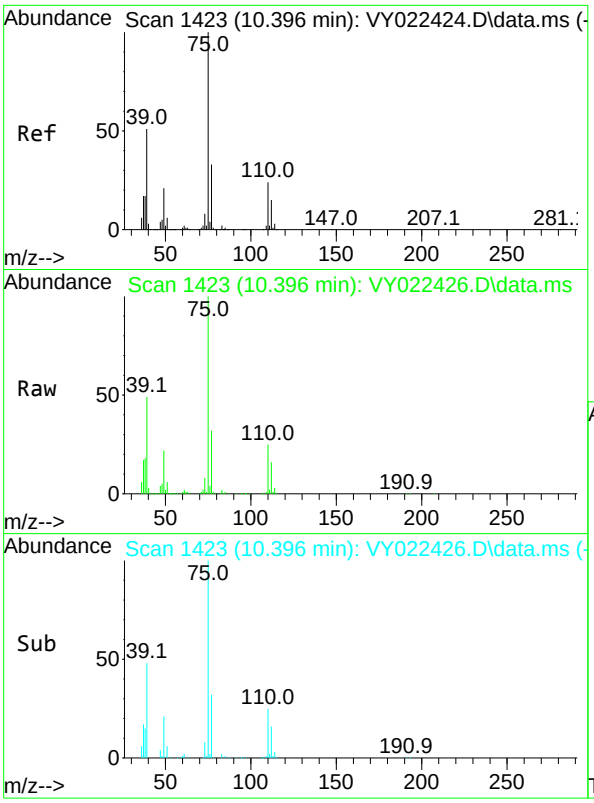


#52
Toluene
Concen: 166.170 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.006 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 92 Resp: 1239585

Ion	Ratio	Lower	Upper
92	100		
91	171.8	139.8	209.6



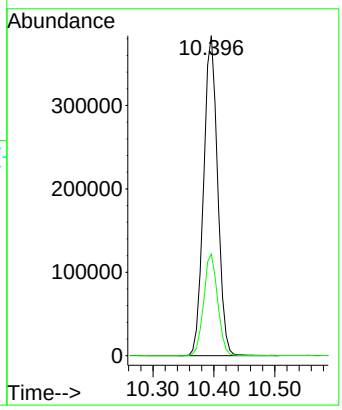


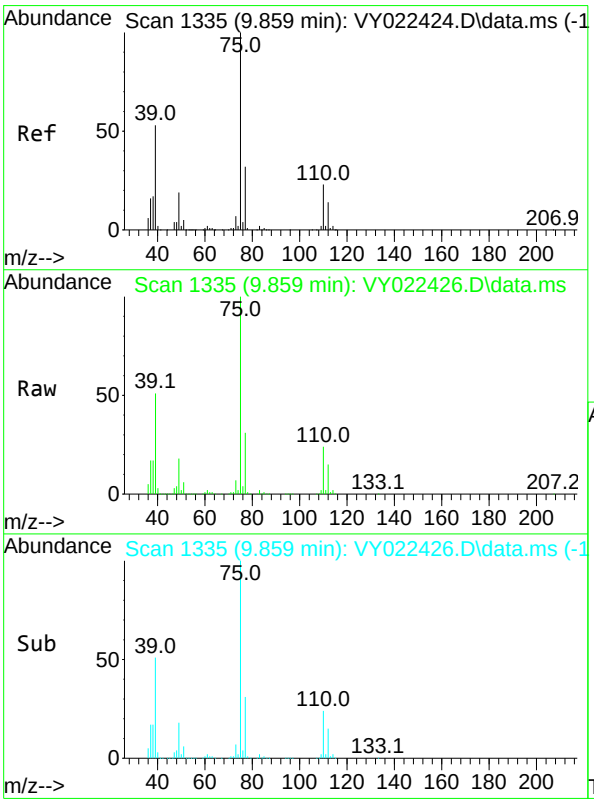
#53
t-1,3-Dichloropropene
Concen: 163.055 ug/l
RT: 10.396 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 75 Resp: 612236

Ion	Ratio	Lower	Upper
75	100		
77	31.8	26.2	39.2

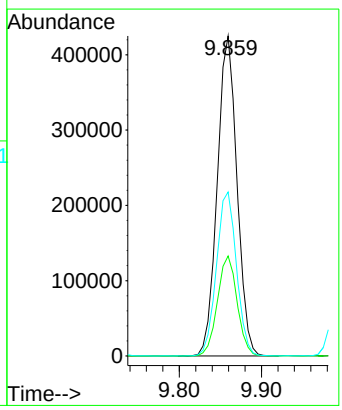


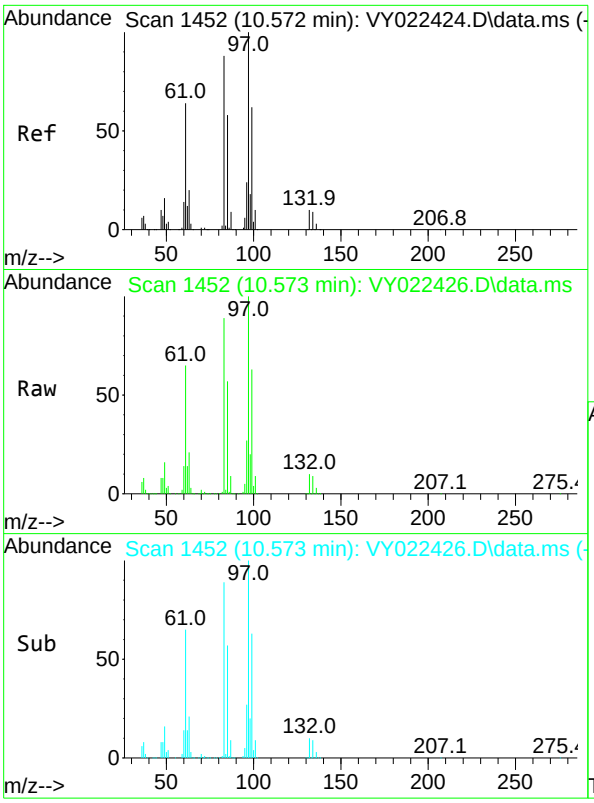


#54
cis-1,3-Dichloropropene
Concen: 160.557 ug/l
RT: 9.859 min Scan# 1335
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 75 Resp: 708367

Ion	Ratio	Lower	Upper
75	100		
77	31.2	25.4	38.2
39	51.2	42.5	63.7



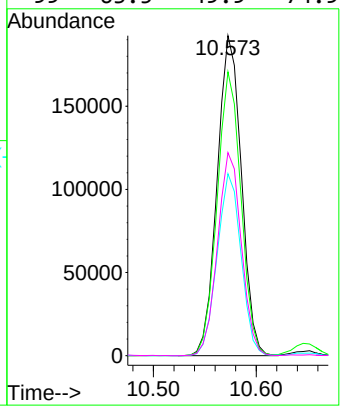


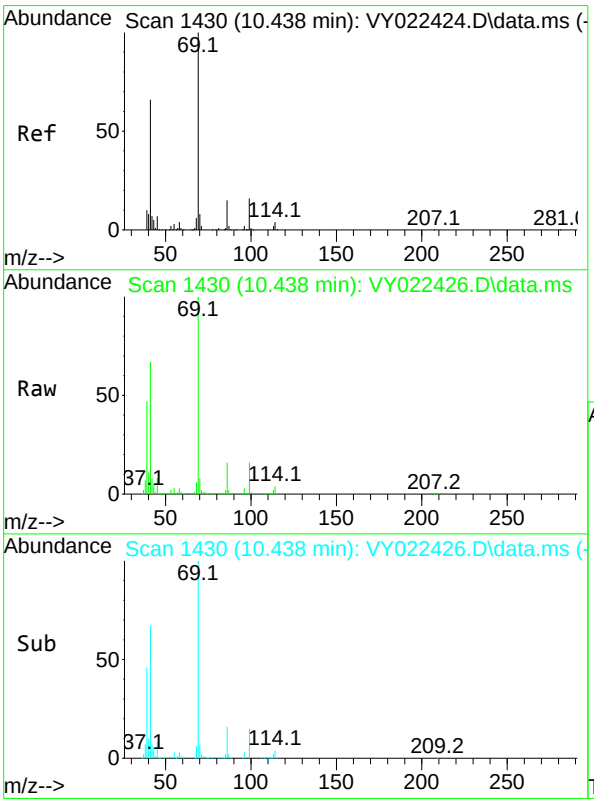
#55
1,1,2-Trichloroethane
Concen: 158.829 ug/l
RT: 10.573 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 97 Resp: 314785

Ion	Ratio	Lower	Upper
97	100		
83	88.7	70.2	105.4
85	56.9	46.1	69.1
99	63.5	49.9	74.9

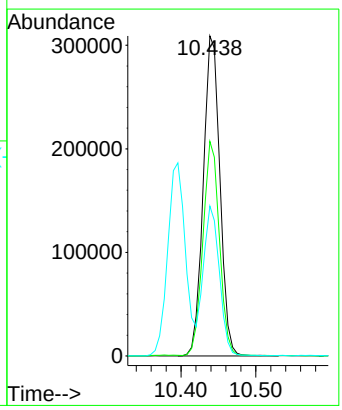


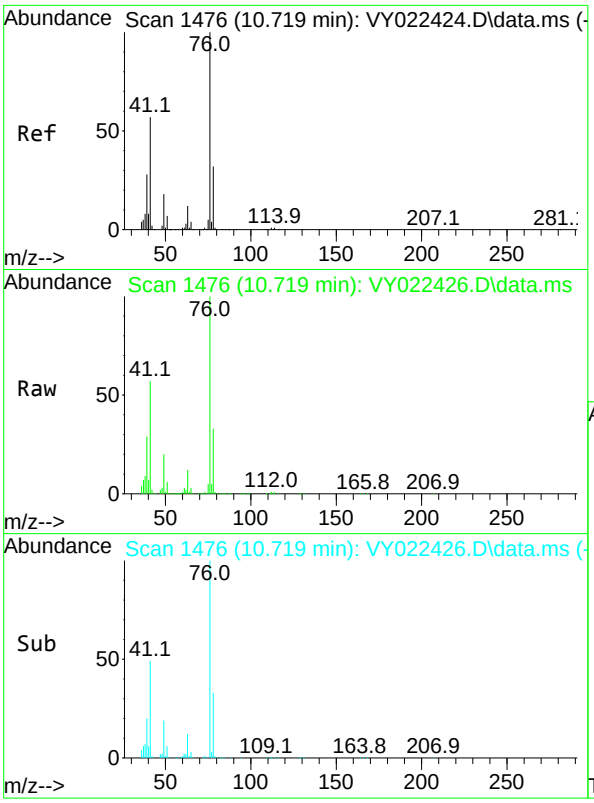


#56
Ethyl methacrylate
Concen: 168.334 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 69 Resp: 478765

Ion	Ratio	Lower	Upper
69	100		
41	66.1	51.2	76.8
39	44.6	35.2	52.8



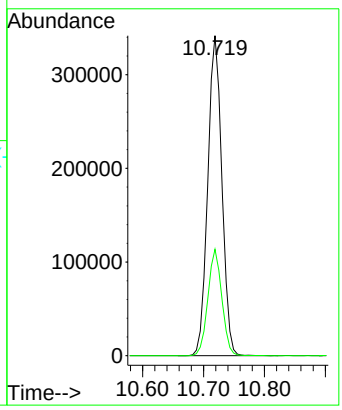


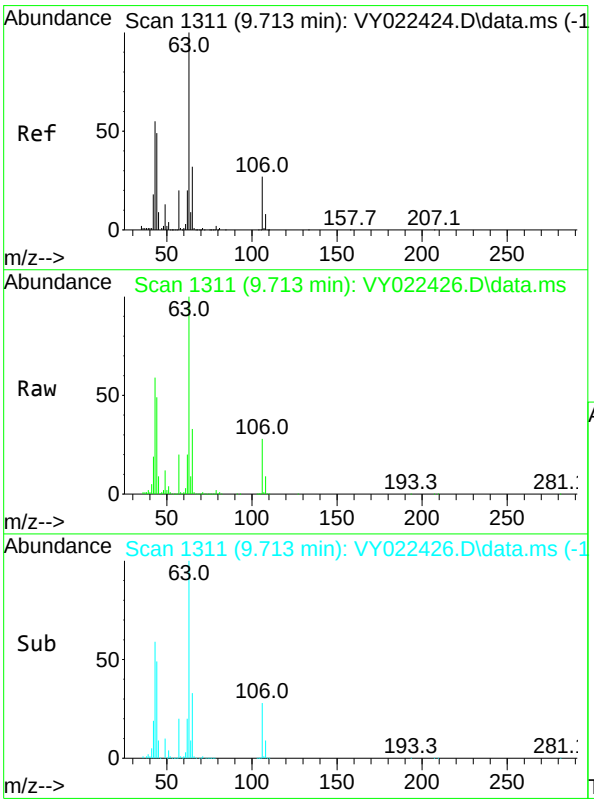
#57
1,3-Dichloropropane
Concen: 157.203 ug/l
RT: 10.719 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 76 Resp: 549047

Ion	Ratio	Lower	Upper
76	100		
78	32.9	25.8	38.8

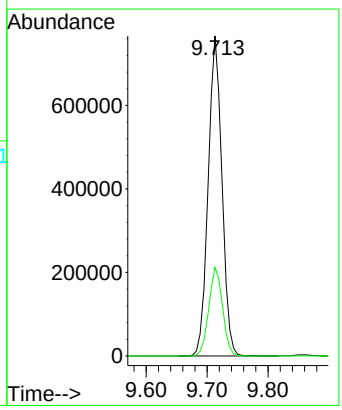


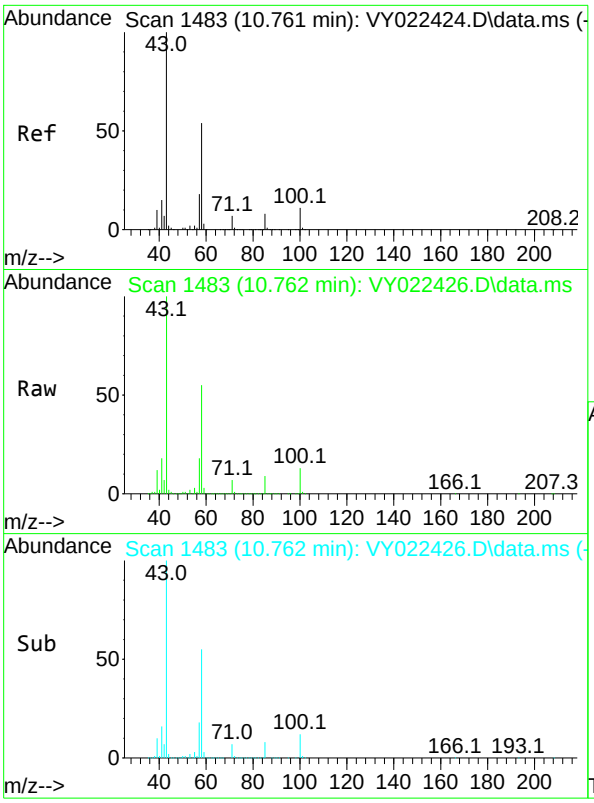


#58
2-Chloroethyl Vinyl ether
Concen: 848.088 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 63 Resp: 1202134

Ion	Ratio	Lower	Upper
63	100		
106	27.7	22.2	33.2



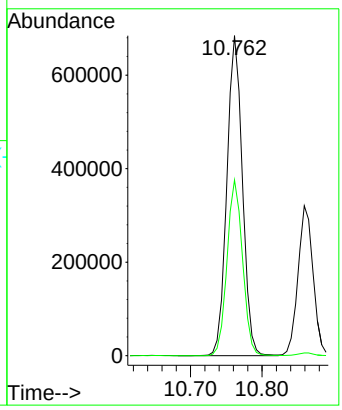


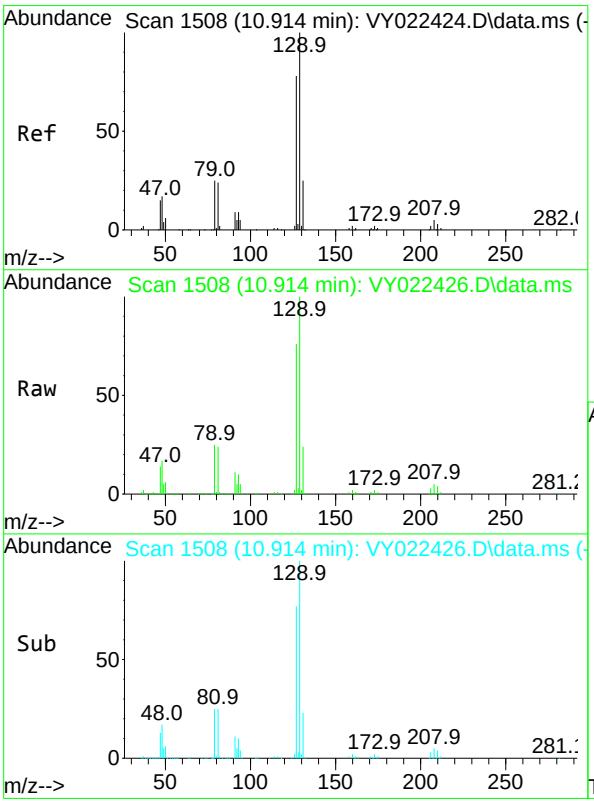
#59
2-Hexanone
Concen: 856.364 ug/l
RT: 10.762 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 1032146

Ion	Ratio	Lower	Upper
43	100		
58	54.9	27.1	81.2

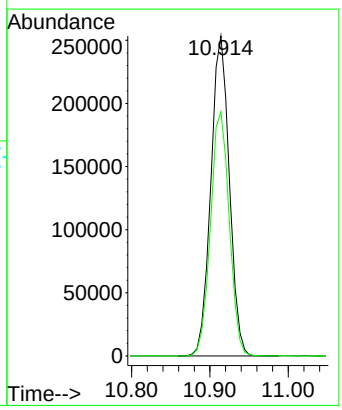


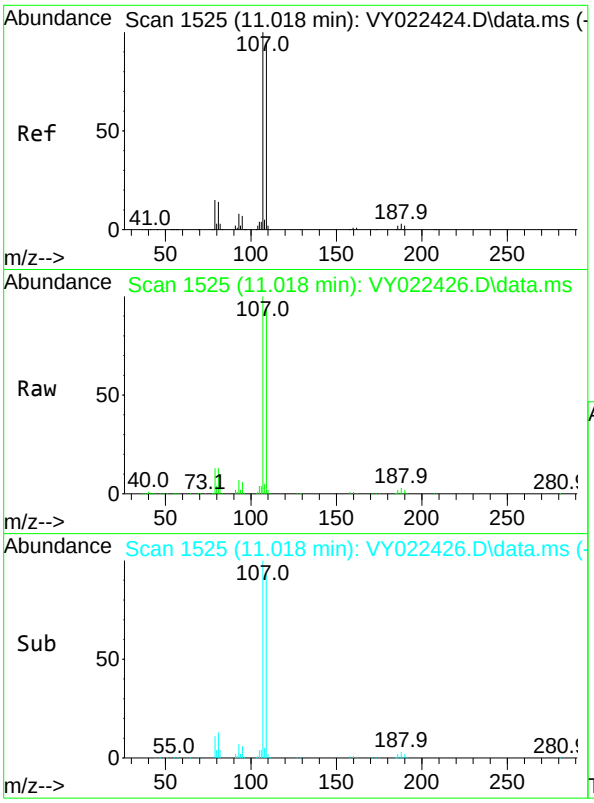


#60
Dibromochloromethane
Concen: 164.093 ug/l
RT: 10.914 min Scan# 1508
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion:129 Resp: 415432

Ion	Ratio	Lower	Upper
129	100		
127	77.3	38.3	114.8



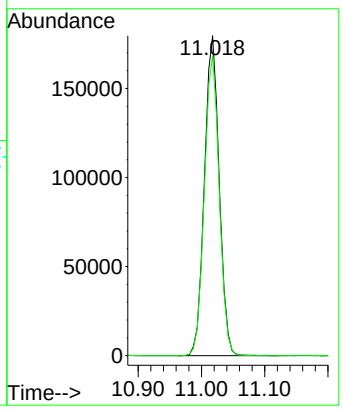


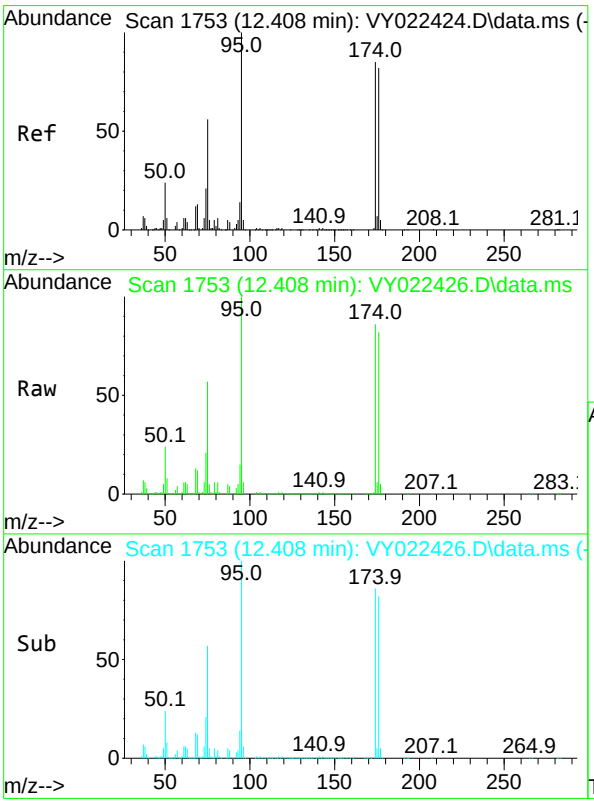
#61
1,2-Dibromoethane
Concen: 161.091 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion:107 Resp: 292010

Ion	Ratio	Lower	Upper
107	100		
109	94.3	74.0	111.0

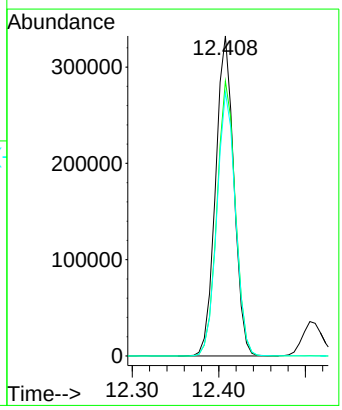


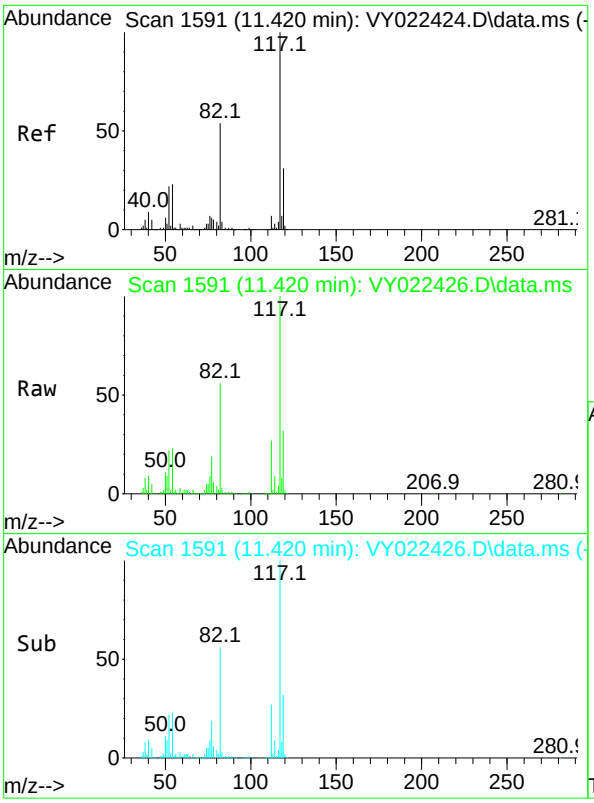


#62
4-Bromofluorobenzene
Concen: 156.173 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 95 Resp: 487100

Ion	Ratio	Lower	Upper
95	100		
174	86.4	0.0	171.6
176	83.6	0.0	164.6



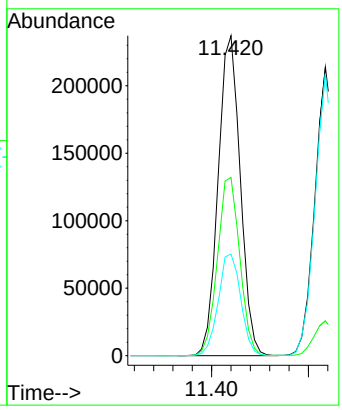


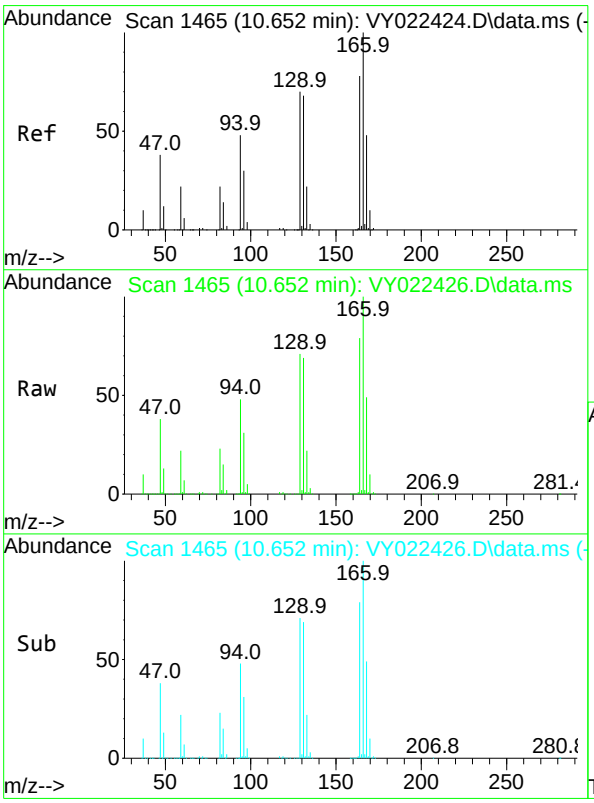
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion:117 Resp: 376608

Ion	Ratio	Lower	Upper
117	100		
82	55.7	43.3	64.9
119	31.7	24.5	36.7

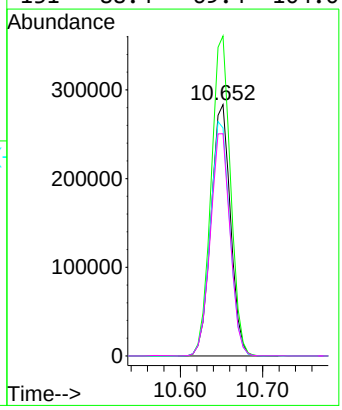


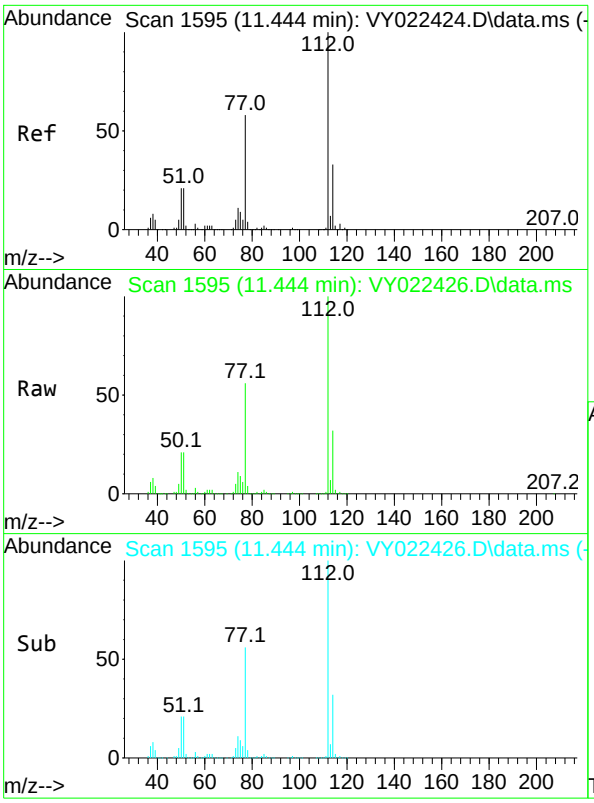


#64
Tetrachloroethene
Concen: 145.442 ug/l
RT: 10.652 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion:164 Resp: 466490

Ion	Ratio	Lower	Upper
164	100		
166	127.3	102.0	153.0
129	90.7	71.3	106.9
131	88.4	69.4	104.0



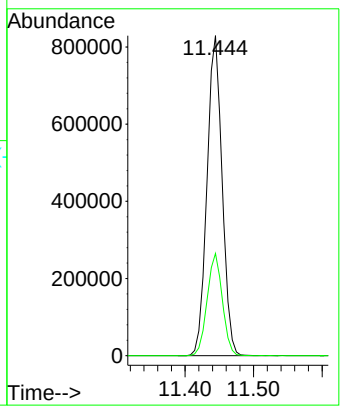


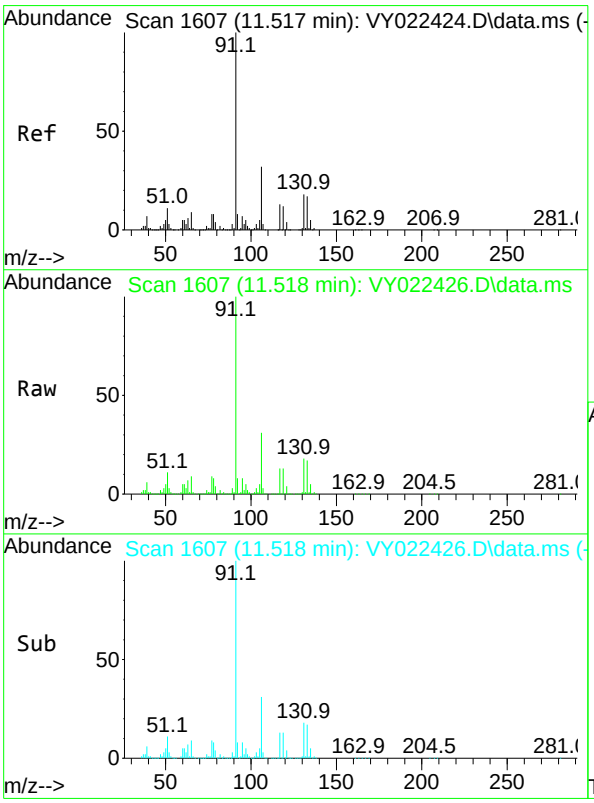
#65
Chlorobenzene
Concen: 158.560 ug/l
RT: 11.444 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion:112 Resp: 1273300

Ion	Ratio	Lower	Upper
112	100		
114	31.9	26.1	39.1

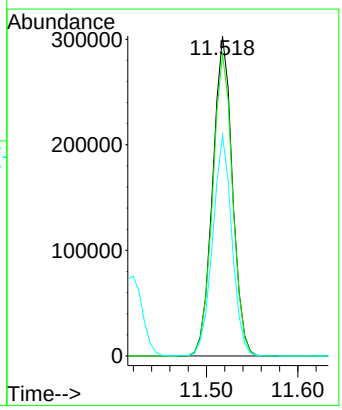


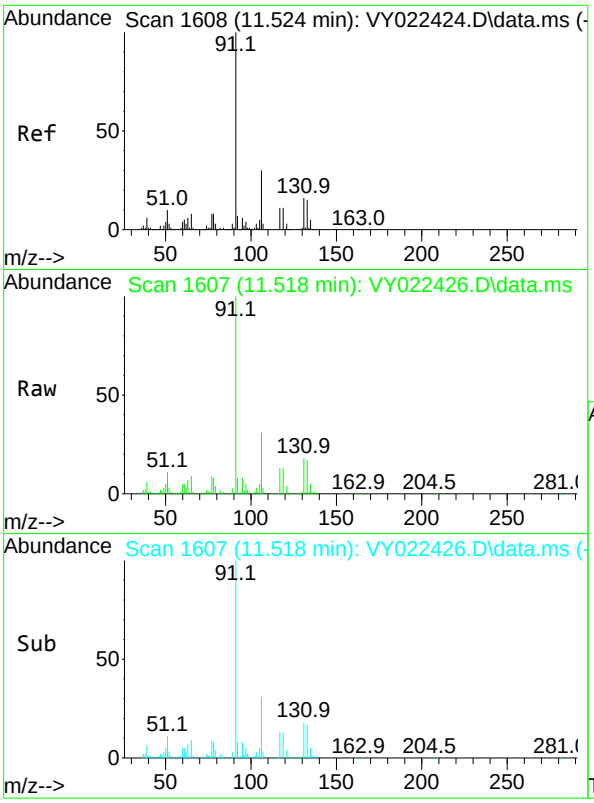


#66
1,1,1,2-Tetrachloroethane
Concen: 166.998 ug/l
RT: 11.518 min Scan# 1607
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion:131 Resp: 454374

Ion	Ratio	Lower	Upper
131	100		
133	95.4	46.6	139.8
119	67.3	33.3	99.8



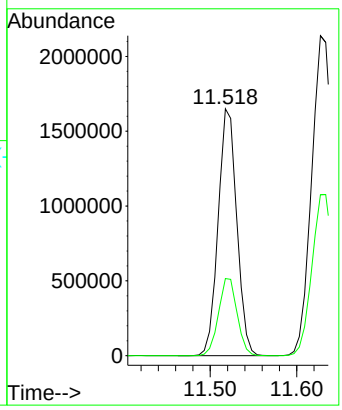


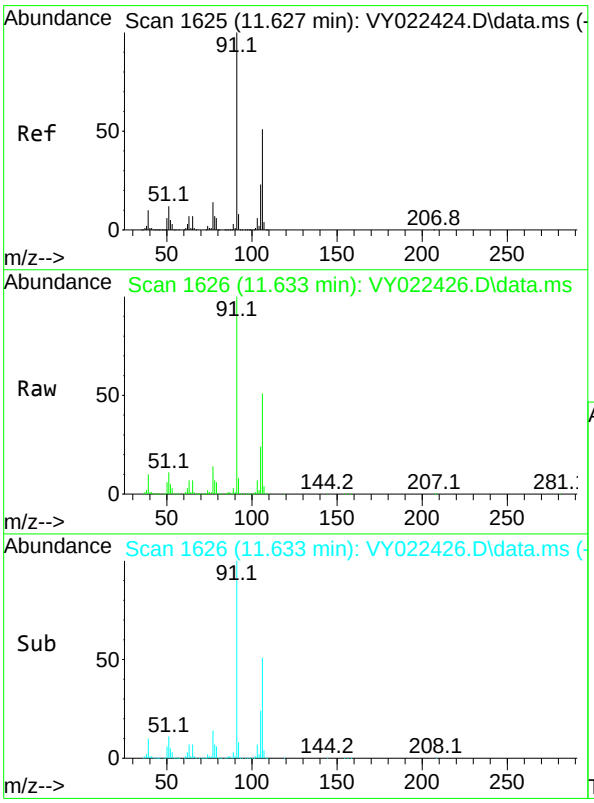
#67
Ethyl Benzene
Concen: 165.526 ug/l
RT: 11.518 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 91 Resp: 2468130

Ion	Ratio	Lower	Upper
91	100		
106	31.3	24.4	36.6

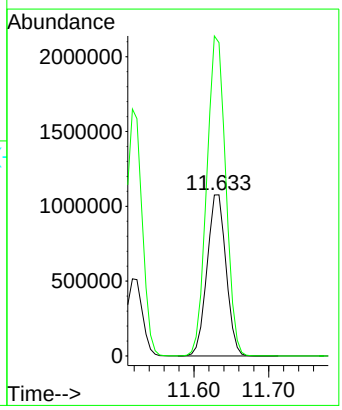


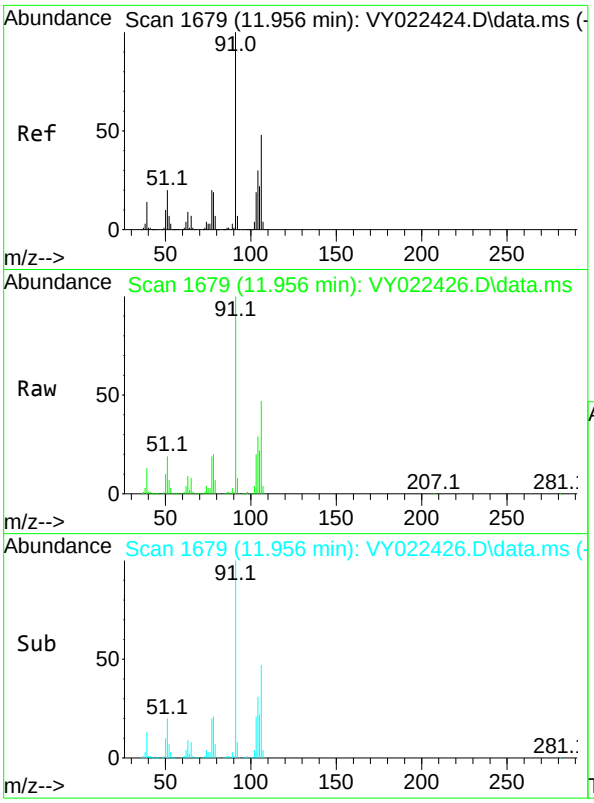


#68
m/p-Xylenes
Concen: 336.111 ug/l
RT: 11.633 min Scan# 1626
Delta R.T. 0.006 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion:106 Resp: 1900132

Ion	Ratio	Lower	Upper
106	100		
91	198.3	159.8	239.8



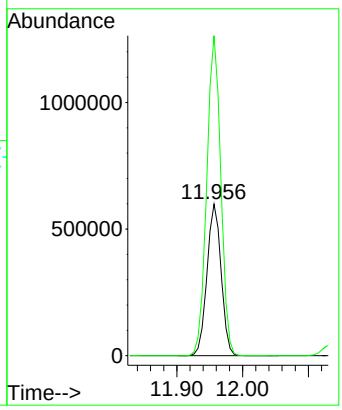


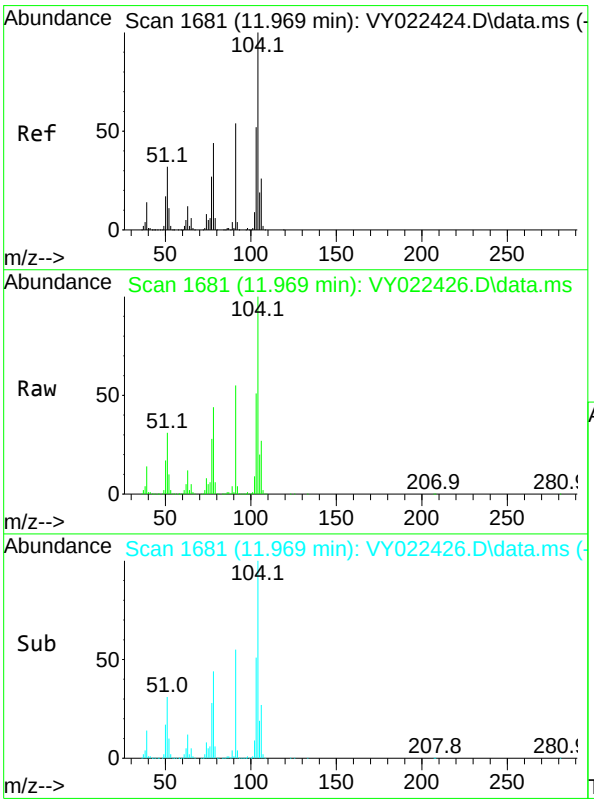
#69
o-Xylene
Concen: 168.335 ug/l
RT: 11.956 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion:106 Resp: 894394

Ion	Ratio	Lower	Upper
106	100		
91	210.6	106.3	318.9

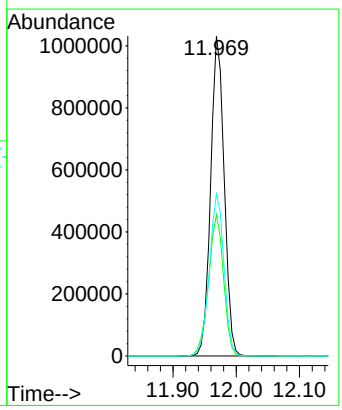


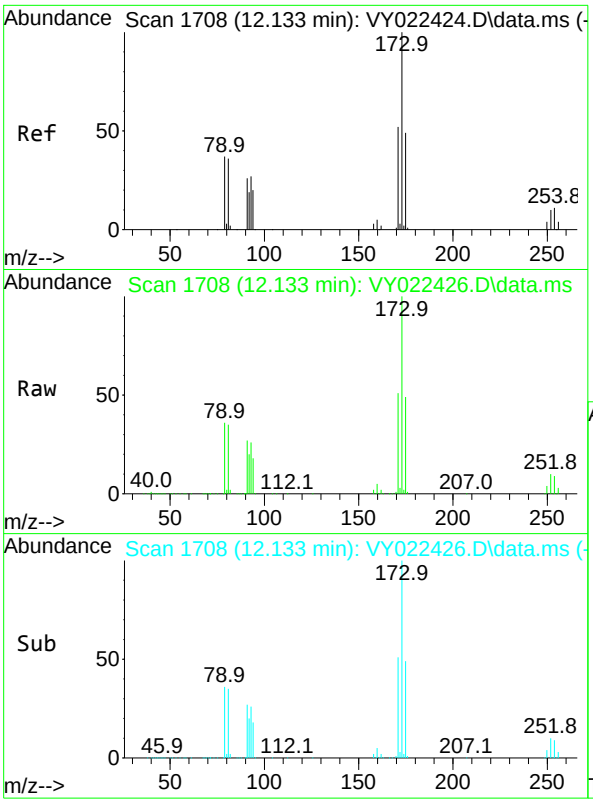


#70
Styrene
Concen: 173.504 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion:104 Resp: 1535004

Ion	Ratio	Lower	Upper
104	100		
78	48.8	38.8	58.2
103	54.9	43.4	65.2



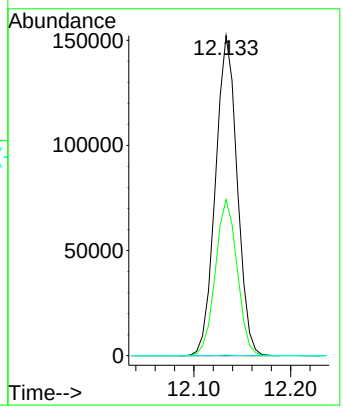


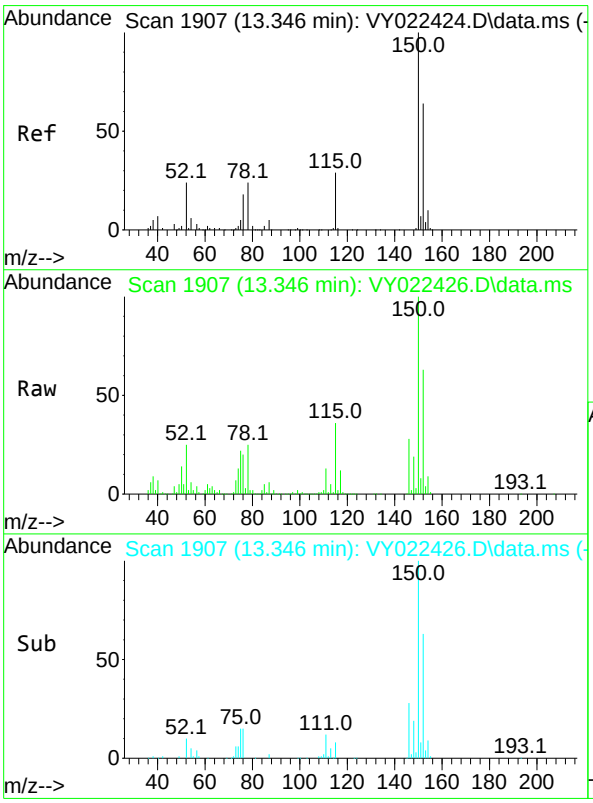
#71
Bromoform
Concen: 166.508 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion:173 Resp: 237301

Ion	Ratio	Lower	Upper
173	100		
175	48.8	24.3	73.0
254	0.1	0.1	0.1#

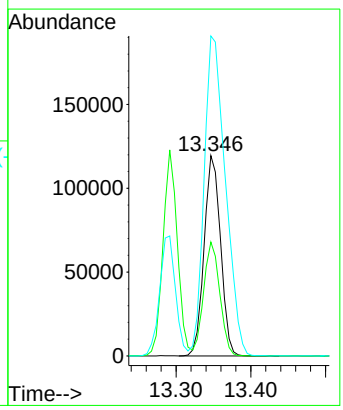


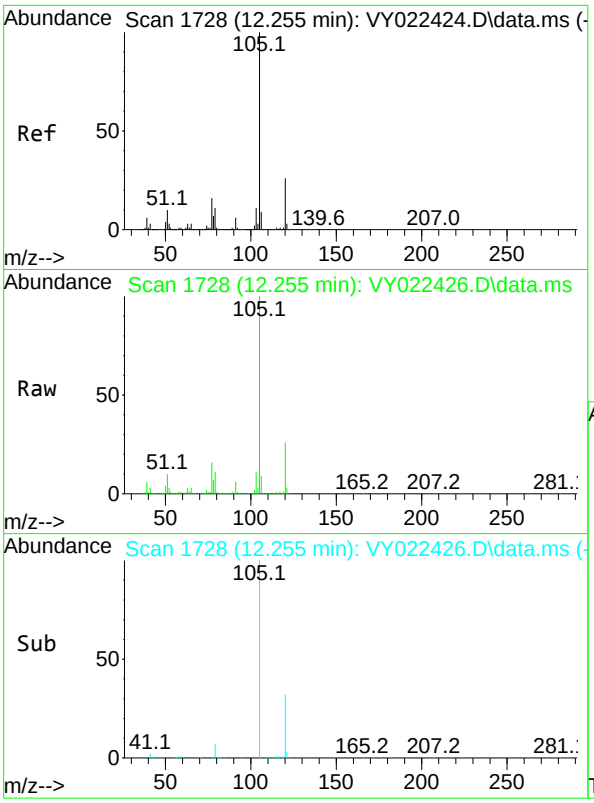


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion:152 Resp: 182671

Ion	Ratio	Lower	Upper
152	100		
115	55.8	28.4	85.3
150	206.8	0.0	345.8



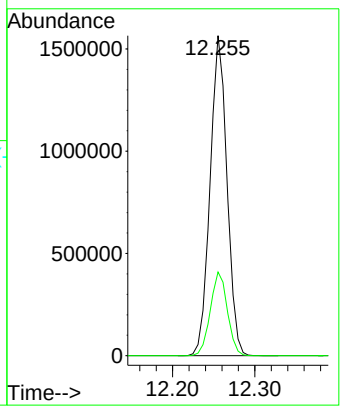


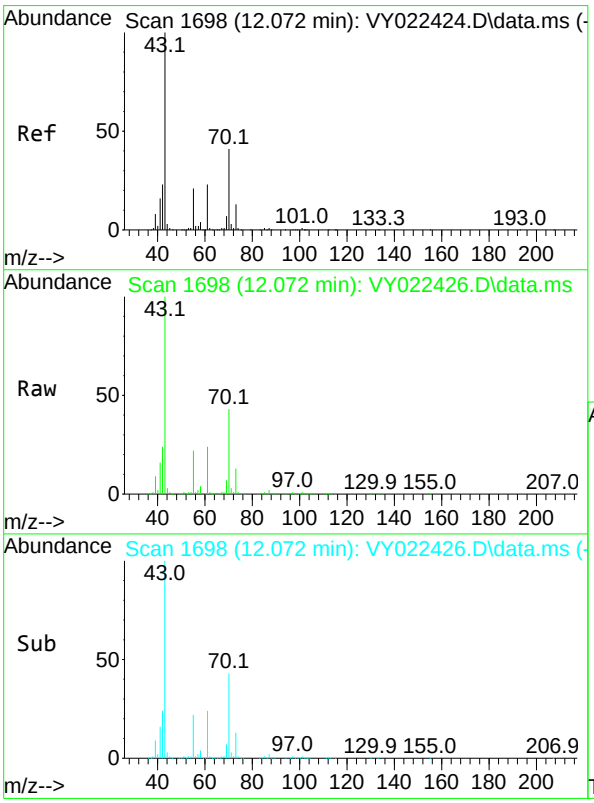
#73
Isopropylbenzene
Concen: 155.735 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion:105 Resp: 2238981

Ion	Ratio	Lower	Upper
105	100		
120	26.3	13.2	39.5

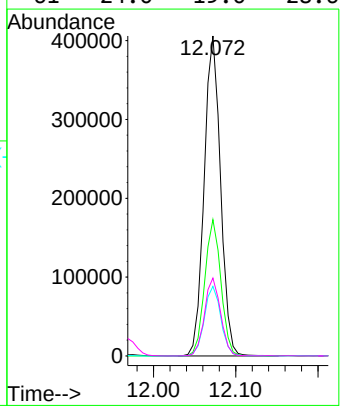


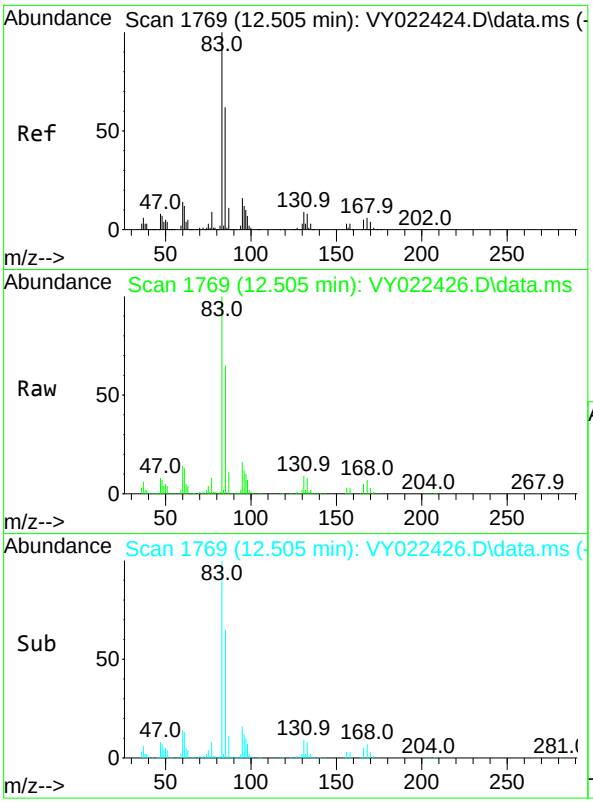


#74
N-amyl acetate
Concen: 159.709 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 43 Resp: 561846

Ion	Ratio	Lower	Upper
43	100		
70	42.0	33.0	49.4
55	22.1	17.5	26.3
61	24.0	19.0	28.6



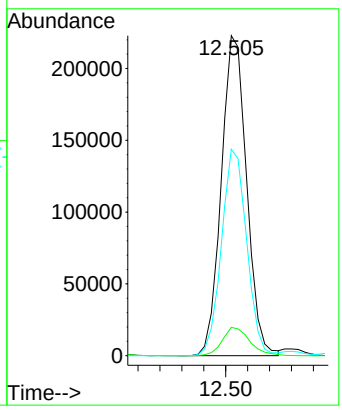


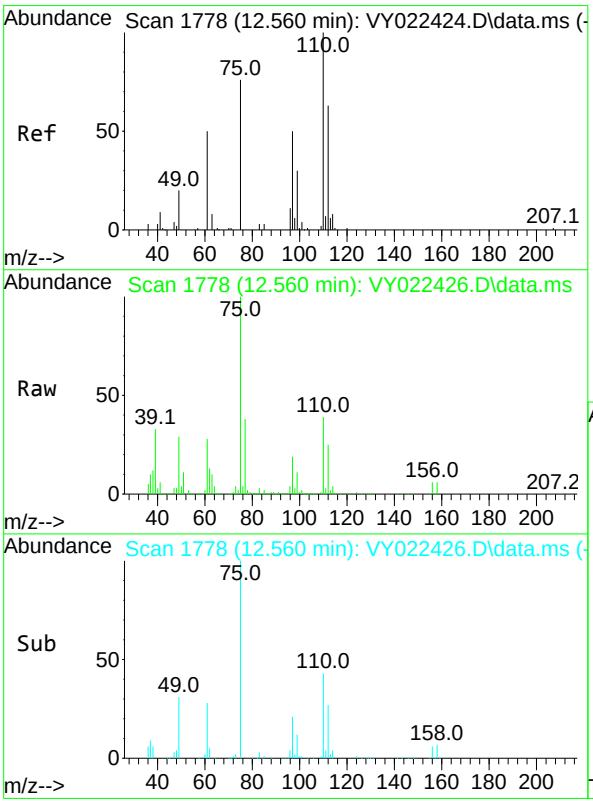
#75
1,1,2,2-Tetrachloroethane
Concen: 157.873 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 83 Resp: 357601

Ion	Ratio	Lower	Upper
83	100		
131	9.6	4.8	14.4
85	64.2	32.0	96.2

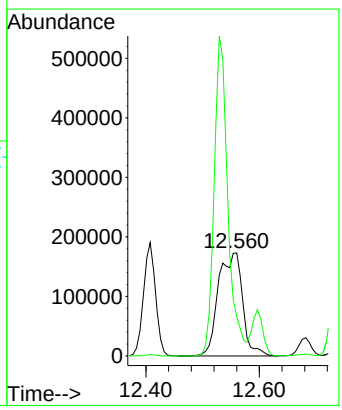


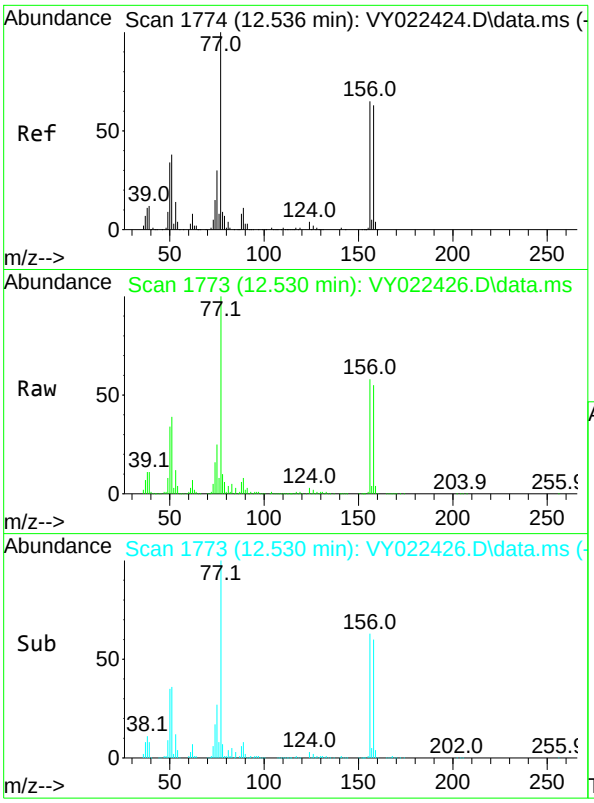


#76
1,2,3-Trichloropropane
Concen: 278.992 ug/l
RT: 12.560 min Scan# 1778
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 75 Resp: 510486

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0



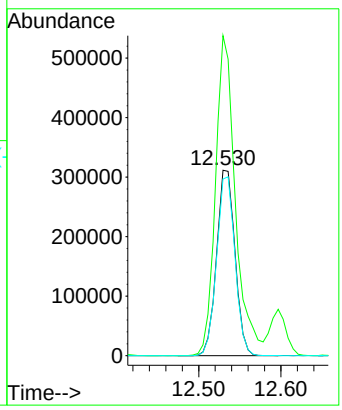


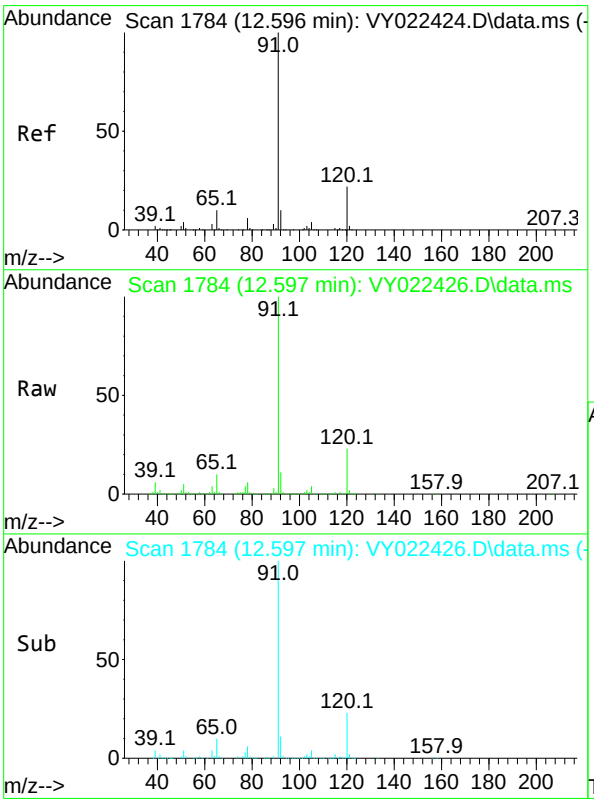
#77
Bromobenzene
Concen: 156.697 ug/l
RT: 12.530 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion:156 Resp: 484799

Ion	Ratio	Lower	Upper
156	100		
77	186.6	91.4	274.2
158	96.3	48.1	144.3

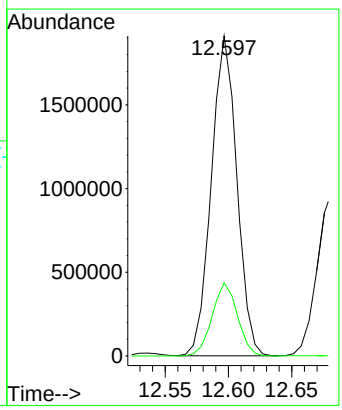


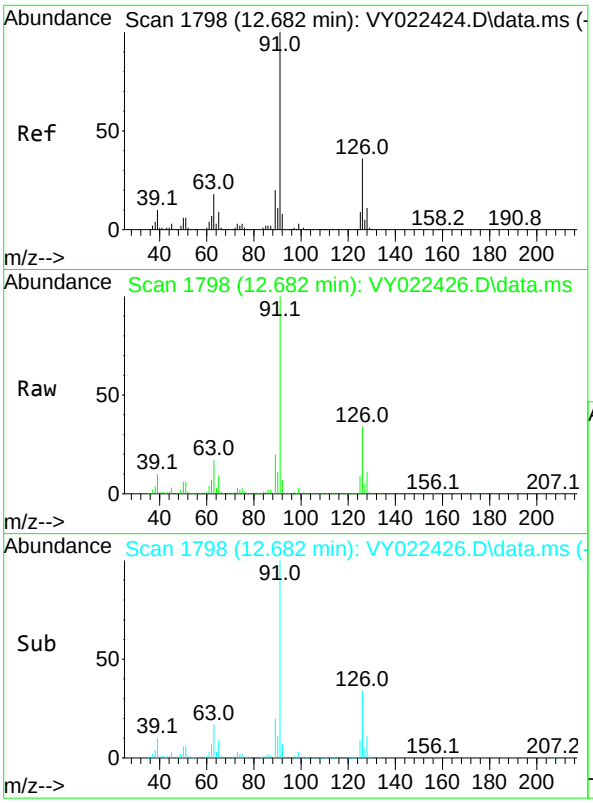


#78
n-propylbenzene
Concen: 155.406 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 91 Resp: 2681276

Ion	Ratio	Lower	Upper
91	100		
120	22.5	11.2	33.5



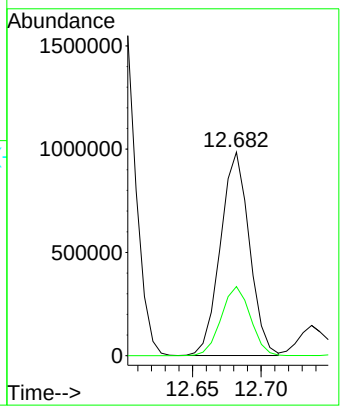


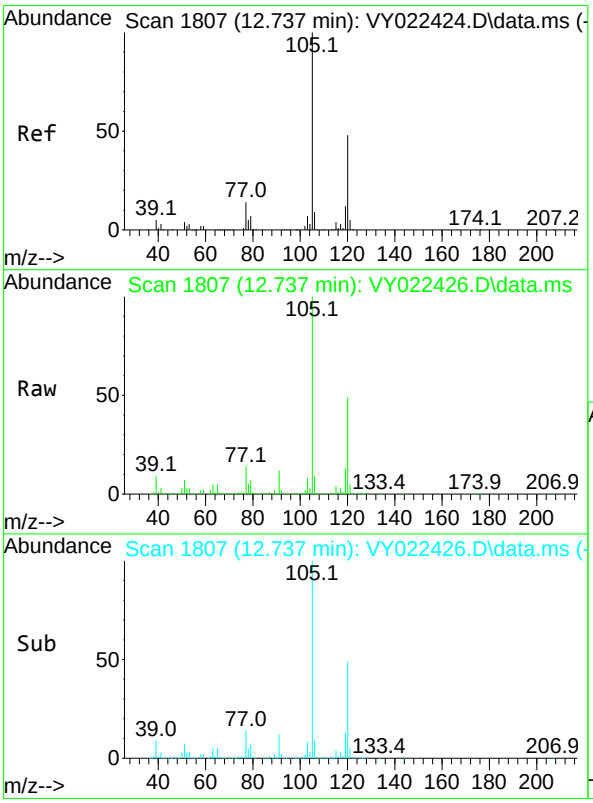
#79
2-Chlorotoluene
Concen: 155.407 ug/l
RT: 12.682 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 91 Resp: 1451439

Ion	Ratio	Lower	Upper
91	100		
126	34.3	17.4	52.3

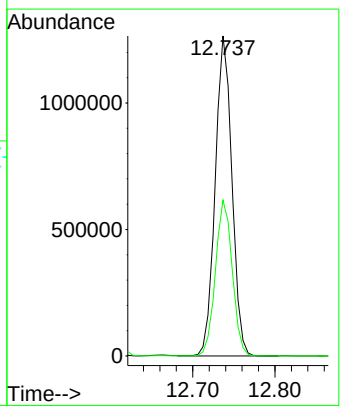


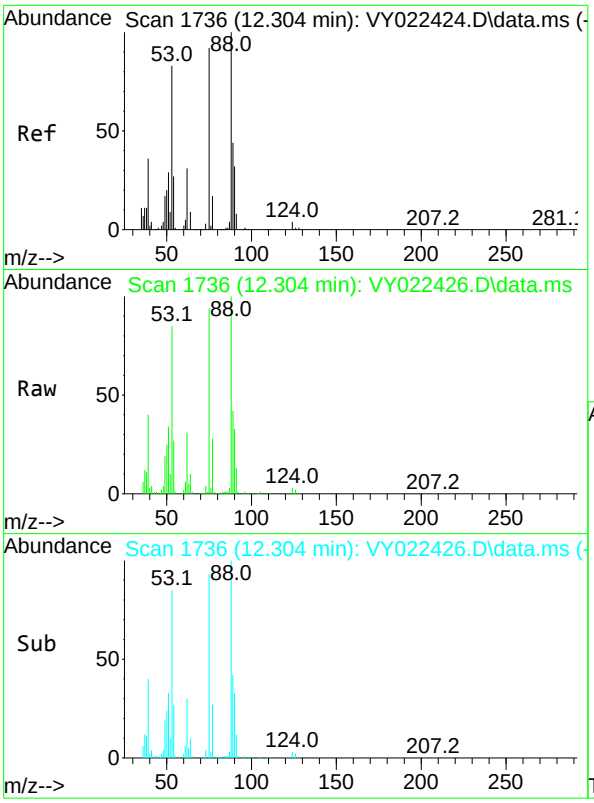


#80
1,3,5-Trimethylbenzene
Concen: 158.958 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion:105 Resp: 1785622

Ion	Ratio	Lower	Upper
105	100		
120	49.1	24.3	73.0



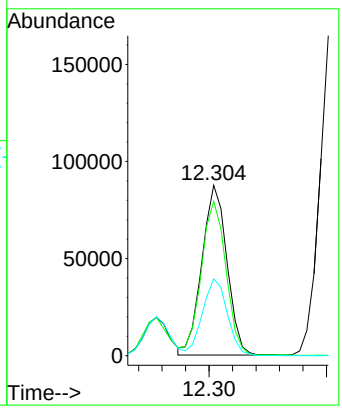


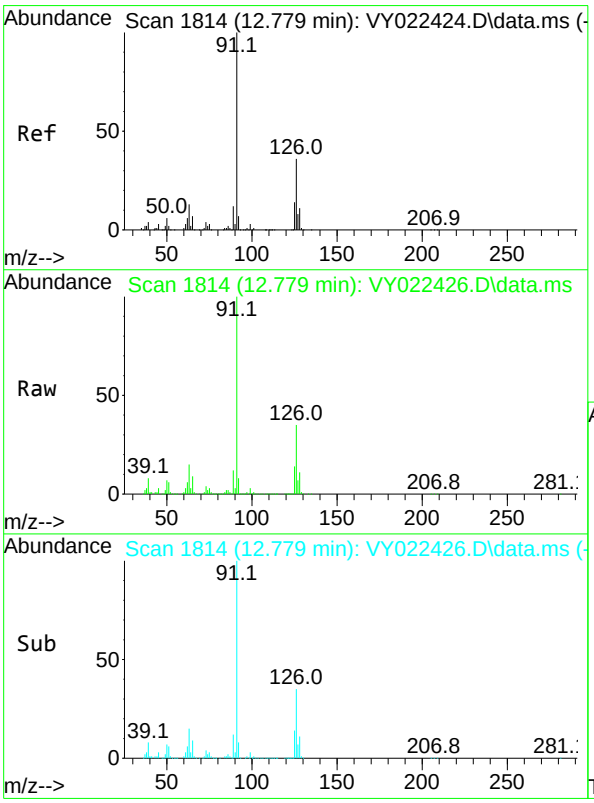
#81
trans-1,4-Dichloro-2-butene
Concen: 160.016 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 75 Resp: 129469

Ion	Ratio	Lower	Upper
75	100		
53	89.5	75.1	112.7
89	44.7	37.4	56.0

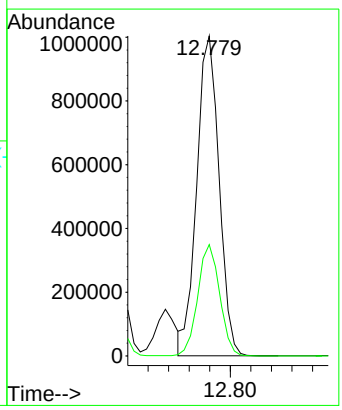


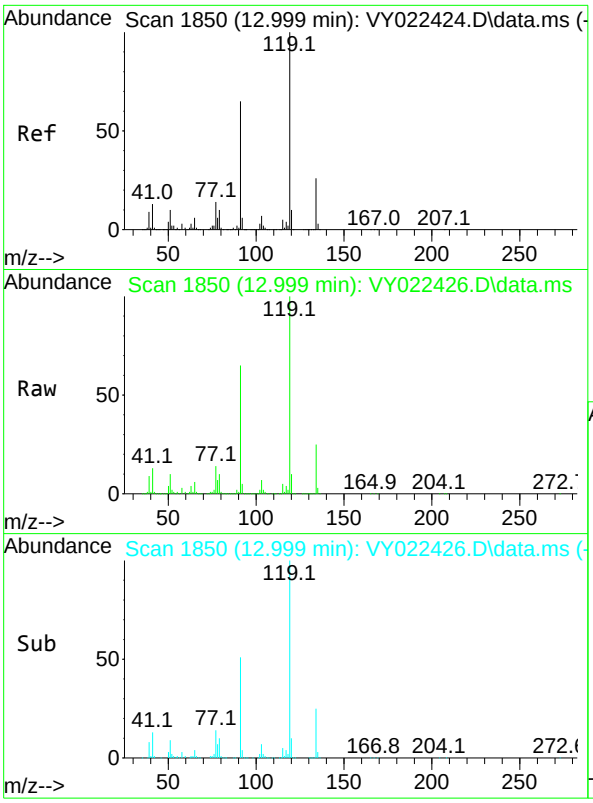


#82
4-Chlorotoluene
Concen: 157.395 ug/l
RT: 12.779 min Scan# 1814
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 91 Resp: 1513977

Ion	Ratio	Lower	Upper
91	100		
126	34.2	17.2	51.6



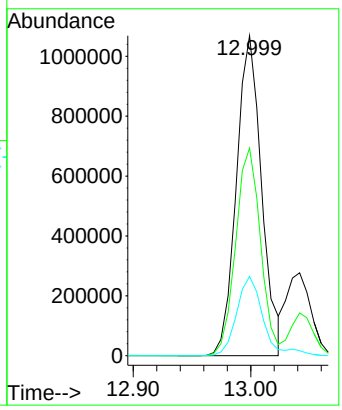


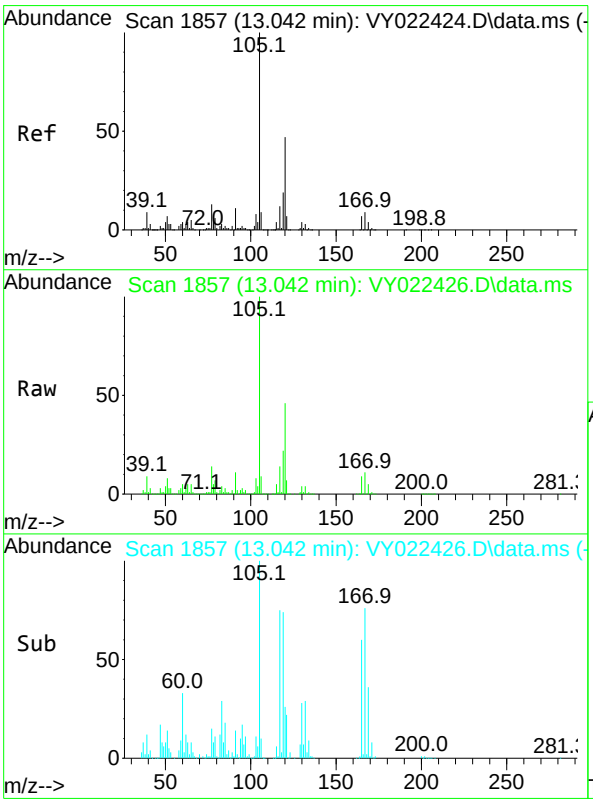
#83
tert-Butylbenzene
Concen: 157.076 ug/l
RT: 12.999 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion:119 Resp: 1594195

Ion	Ratio	Lower	Upper
119	100		
91	63.9	31.8	95.3
134	26.0	13.0	38.9

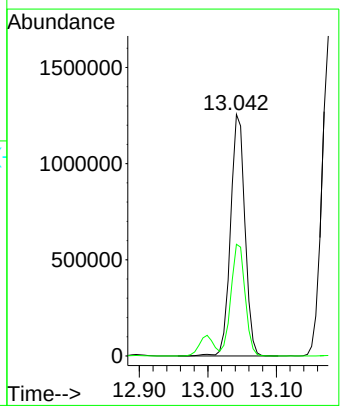


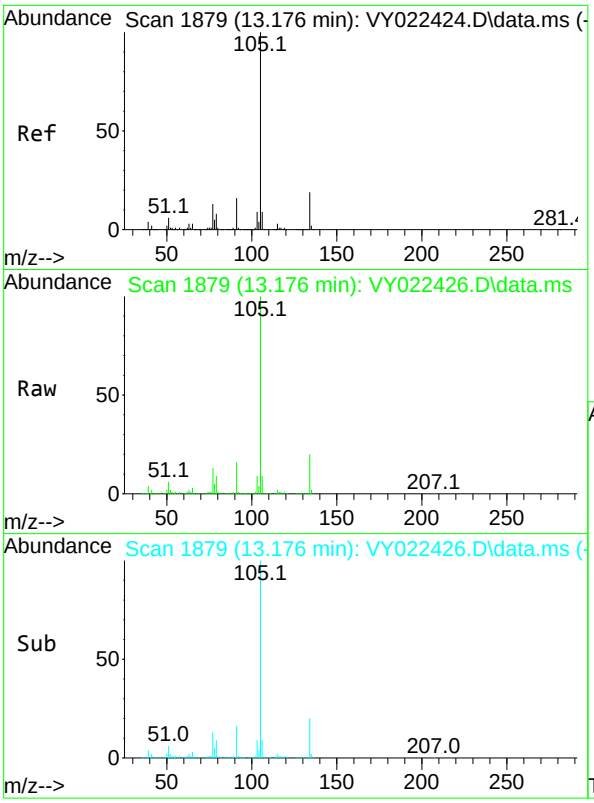


#84
1,2,4-Trimethylbenzene
Concen: 162.038 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion:105 Resp: 1831722

Ion	Ratio	Lower	Upper
105	100		
120	45.6	22.9	68.5



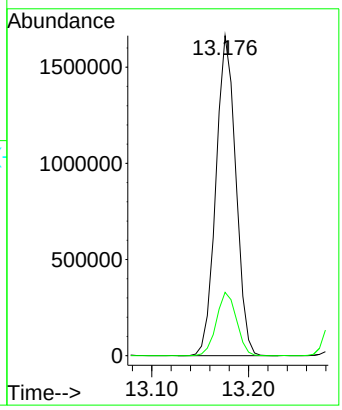


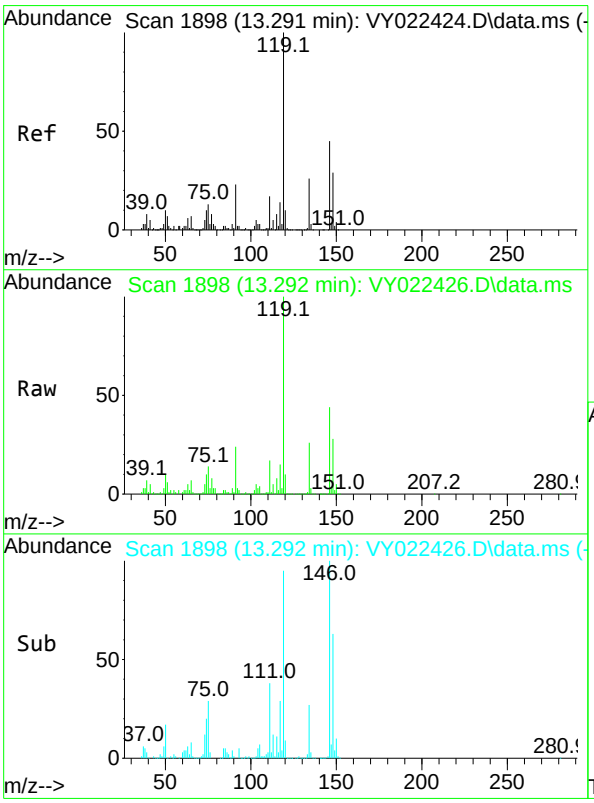
#85
sec-Butylbenzene
Concen: 157.674 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion:105 Resp: 2373216

Ion	Ratio	Lower	Upper
105	100		
134	20.0	9.7	29.1

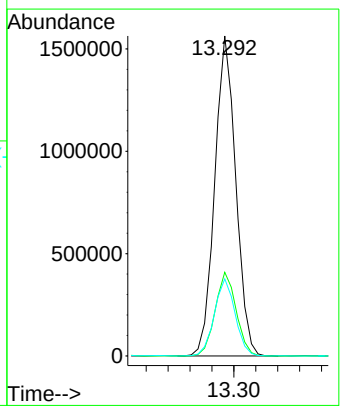


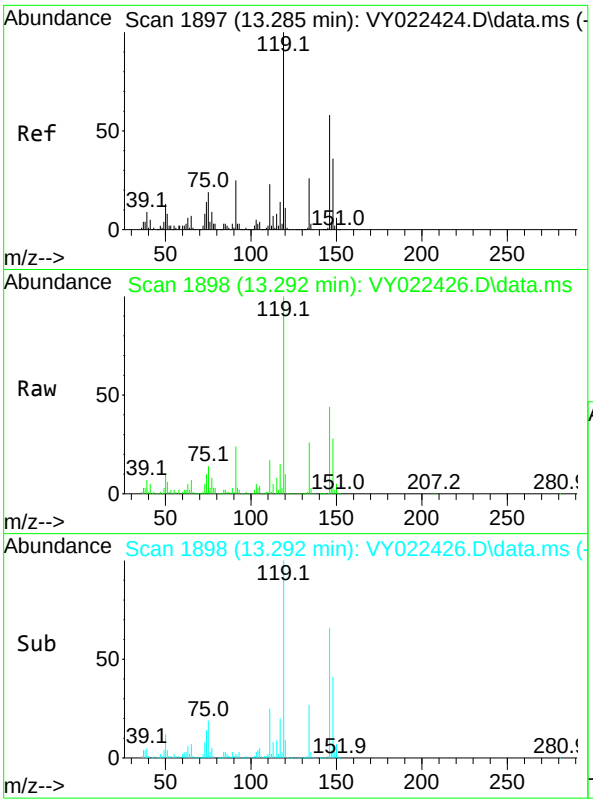


#86
p-Isopropyltoluene
Concen: 165.843 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion:119 Resp: 2084441

Ion	Ratio	Lower	Upper
119	100		
134	26.1	13.0	39.0
91	23.8	11.6	34.8



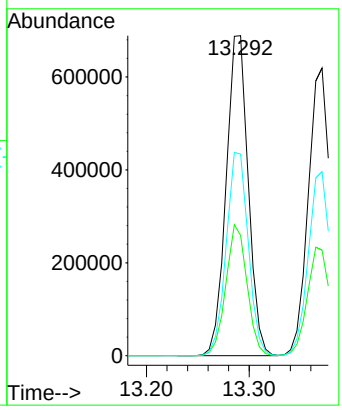


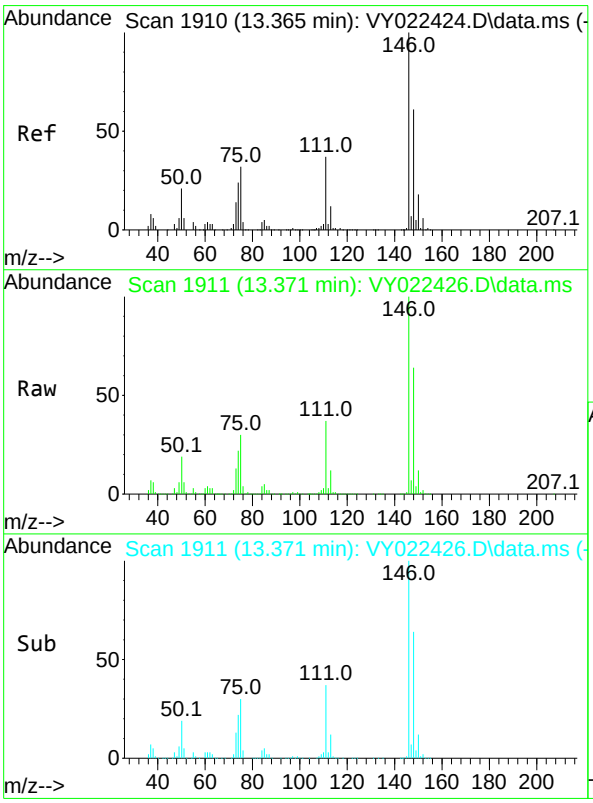
#87
1,3-Dichlorobenzene
Concen: 164.991 ug/l
RT: 13.292 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion:146 Resp: 1027086

Ion	Ratio	Lower	Upper
146	100		
111	39.2	19.6	58.8
148	63.6	31.7	95.1

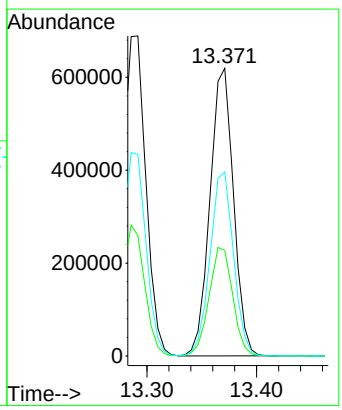


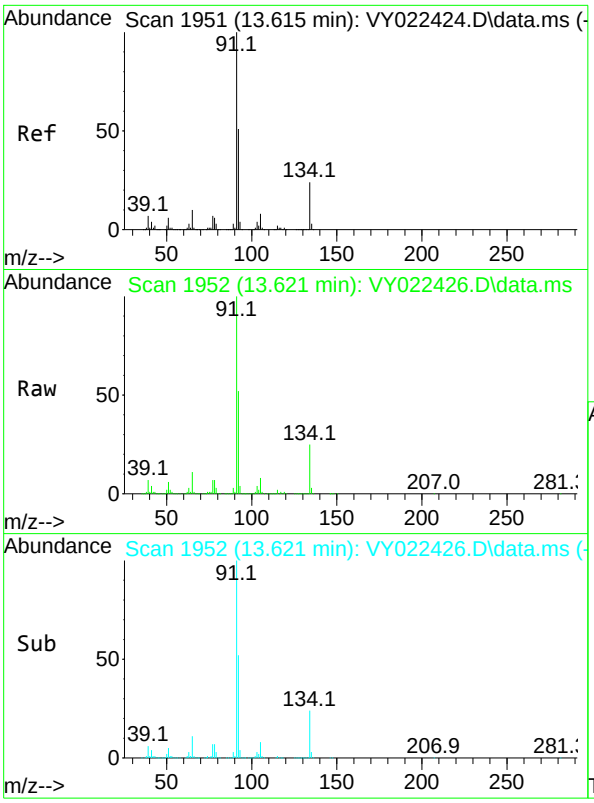


#88
1,4-Dichlorobenzene
Concen: 155.292 ug/l
RT: 13.371 min Scan# 1911
Delta R.T. 0.006 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion:146 Resp: 924346

Ion	Ratio	Lower	Upper
146	100		
111	37.9	18.7	56.1
148	64.0	31.4	94.3



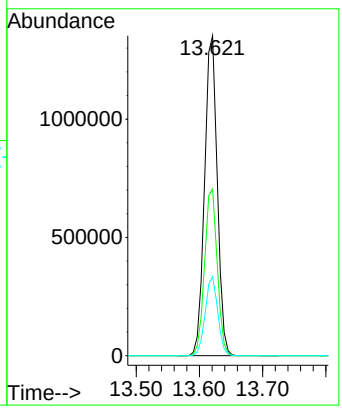


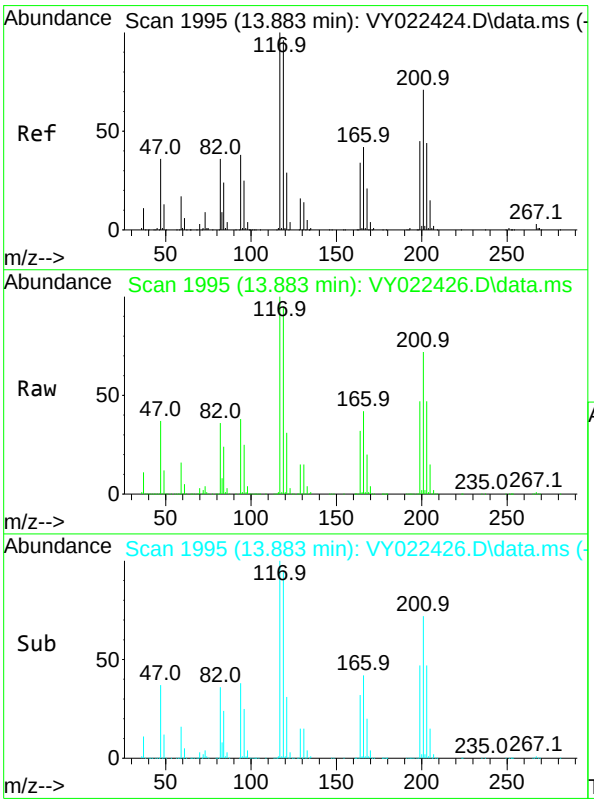
#89
n-Butylbenzene
Concen: 160.316 ug/l
RT: 13.621 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion: 91 Resp: 1889271

Ion	Ratio	Lower	Upper
91	100		
92	52.4	25.9	77.6
134	24.5	12.4	37.0

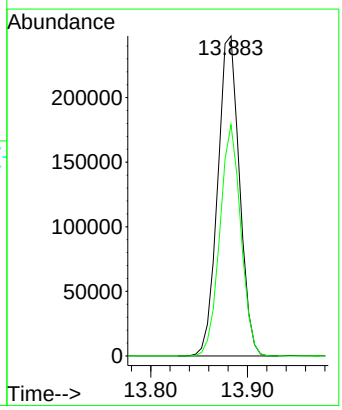


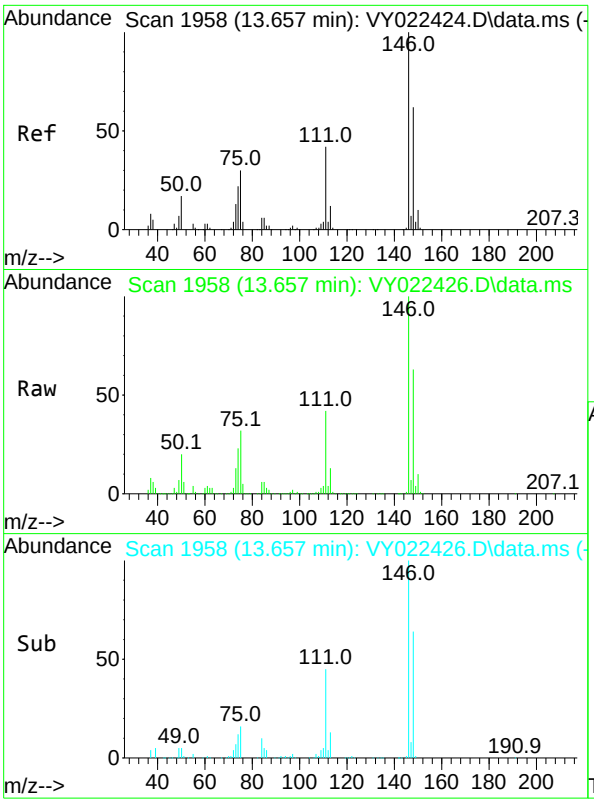


#90
Hexachloroethane
Concen: 154.660 ug/l
RT: 13.883 min Scan# 1995
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion:117 Resp: 386833

Ion	Ratio	Lower	Upper
117	100		
201	69.4	35.0	105.0



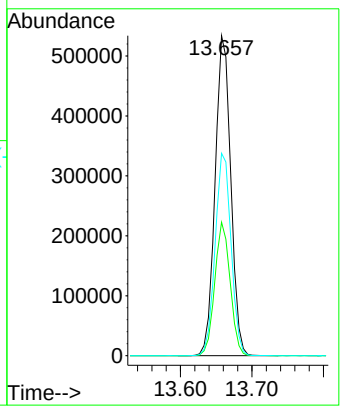


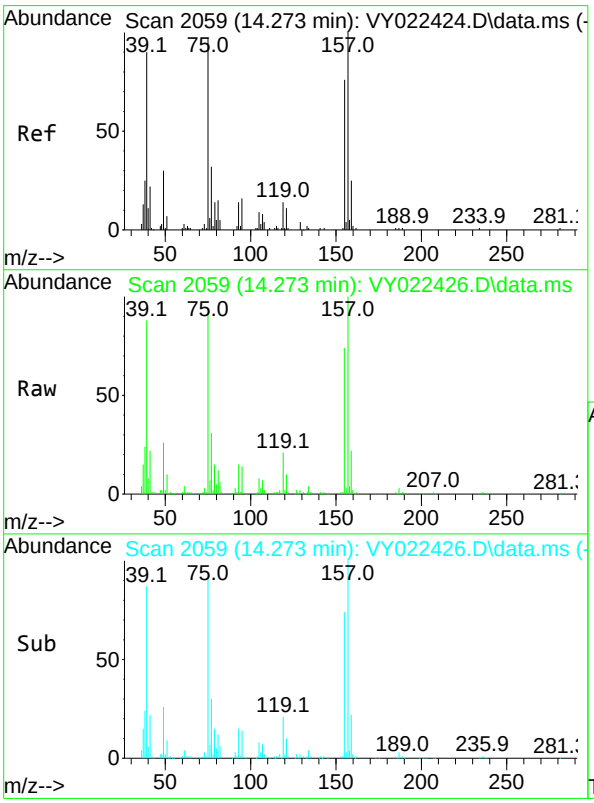
#91
1,2-Dichlorobenzene
Concen: 156.218 ug/l
RT: 13.657 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion:146 Resp: 812262

Ion	Ratio	Lower	Upper
146	100		
111	40.9	20.5	61.6
148	64.2	31.9	95.9

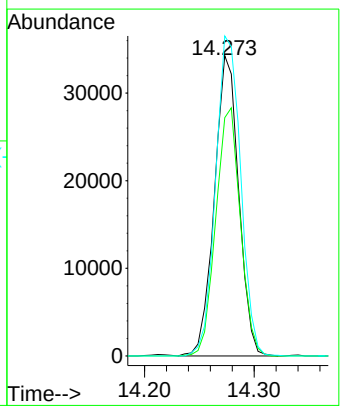


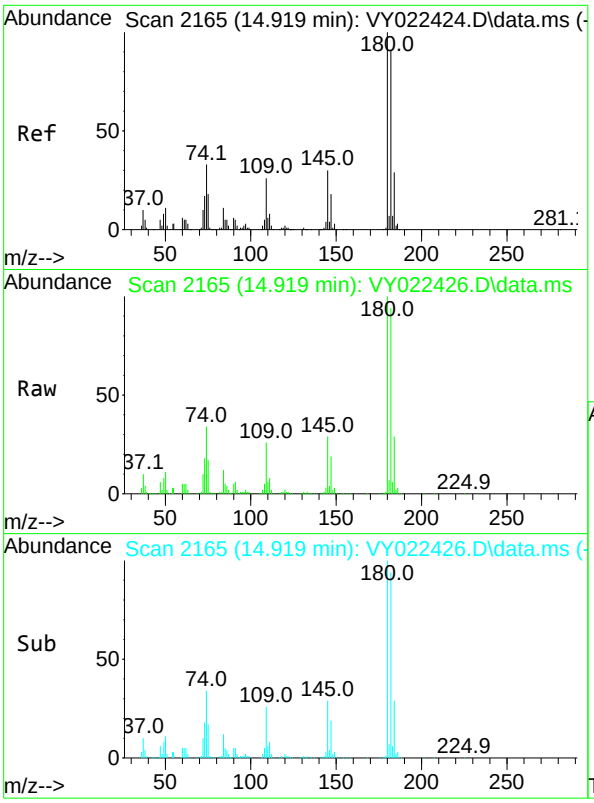


#92
1,2-Dibromo-3-Chloropropane
Concen: 150.784 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion: 75 Resp: 52777

Ion	Ratio	Lower	Upper
75	100		
155	83.4	42.3	126.8
157	109.9	54.4	163.3



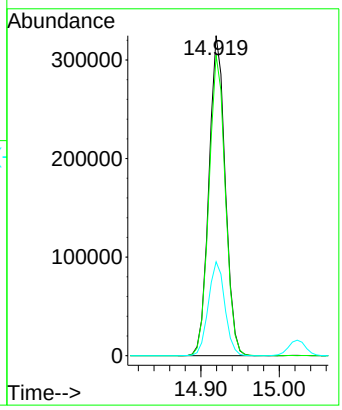


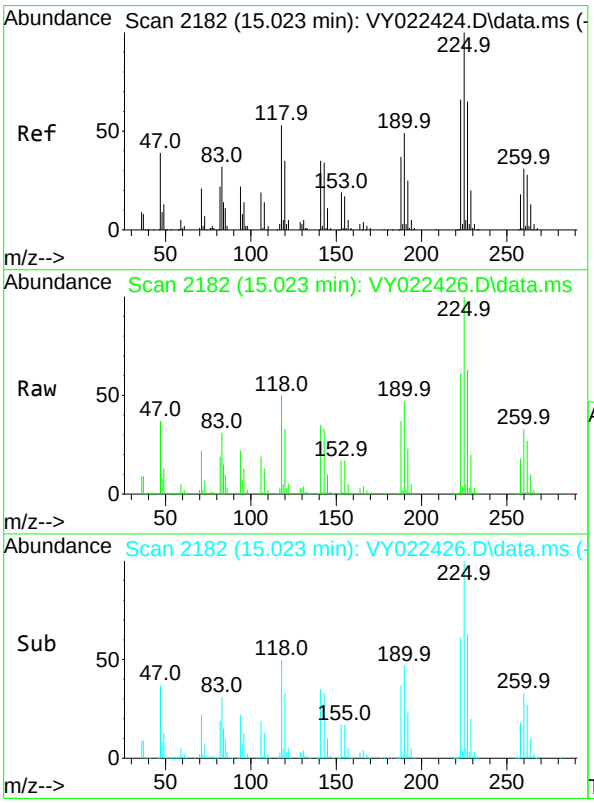
#93
1,2,4-Trichlorobenzene
Concen: 162.662 ug/l
RT: 14.919 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion:180 Resp: 468879

Ion	Ratio	Lower	Upper
180	100		
182	94.1	46.2	138.6
145	29.6	14.2	42.8

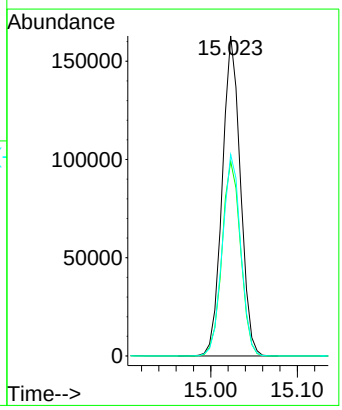


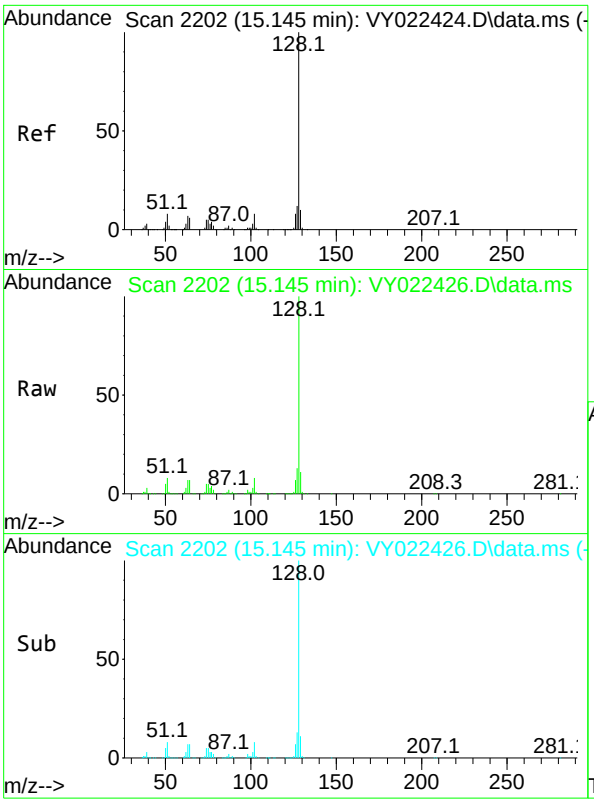


#94
Hexachlorobutadiene
Concen: 156.325 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion:225 Resp: 236480

Ion	Ratio	Lower	Upper
225	100		
223	62.3	32.6	97.7
227	63.7	33.0	99.0



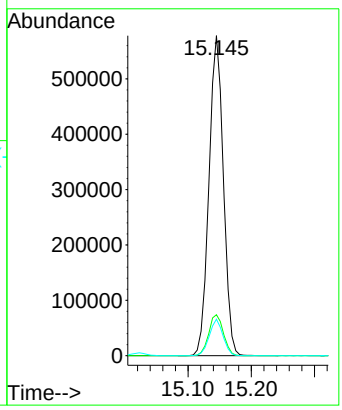


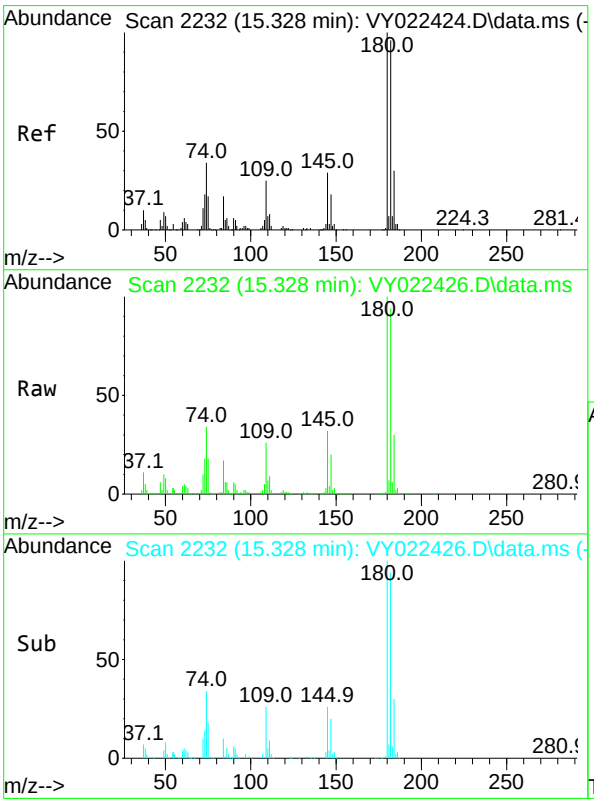
#95
Naphthalene
Concen: 171.849 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Tgt Ion:128 Resp: 915763

Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.2	15.4
129	10.9	8.5	12.7

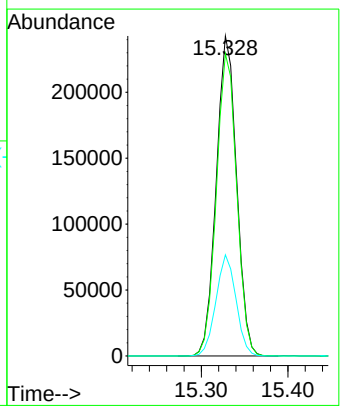




#96
1,2,3-Trichlorobenzene
Concen: 167.307 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. 0.000 min
Lab File: VY022426.D
Acq: 27 May 2025 10:44

Tgt Ion:180 Resp: 395519

Ion	Ratio	Lower	Upper
180	100		
182	94.6	48.1	144.3
145	31.2	14.9	44.5



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022428.D
Acq On : 27 May 2025 11:56
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Quant Time: May 28 15:25:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	253507	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	425137	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	371169	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	177242	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	135927	50.905	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 101.800%			
35) Dibromofluoromethane	7.634	113	126788	50.924	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 101.840%			
50) Toluene-d8	10.109	98	516469	50.886	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 101.780%			
62) 4-Bromofluorobenzene	12.408	95	155747	50.731	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 101.460%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	103680	42.867	ug/l	98
3) Chloromethane	2.068	50	343646	57.762	ug/l	96
4) Vinyl Chloride	2.202	62	378150	52.322	ug/l	99
5) Bromomethane	2.598	94	378531	57.634	ug/l	100
6) Chloroethane	2.733	64	272398	57.677	ug/l	99
7) Trichlorofluoromethane	3.050	101	341076	55.933	ug/l	98
8) Diethyl Ether	3.458	74	74240	52.801	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.818	101	125740	47.001	ug/l	99
10) Methyl Iodide	4.007	142	147302	48.805	ug/l	100
11) Tert butyl alcohol	4.891	59	53913	286.443	ug/l	98
12) 1,1-Dichloroethene	3.787	96	129146	48.624	ug/l	96
13) Acrolein	3.653	56	75220	266.723	ug/l	100
14) Allyl chloride	4.385	41	206704	51.736	ug/l	99
15) Acrylonitrile	5.061	53	157491	277.887	ug/l	100
16) Acetone	3.885	43	127318	290.164	ug/l	93
17) Carbon Disulfide	4.110	76	422273	49.820	ug/l	100
18) Methyl Acetate	4.385	43	98344	59.833	ug/l	97
19) Methyl tert-butyl Ether	5.122	73	376709	53.423	ug/l	99
20) Methylene Chloride	4.616	84	147382	47.566	ug/l	96
21) trans-1,2-Dichloroethene	5.116	96	149045	51.401	ug/l	96
22) Diisopropyl ether	6.025	45	453438	51.423	ug/l	98
23) Vinyl Acetate	5.964	43	1330055	262.697	ug/l	100
24) 1,1-Dichloroethane	5.915	63	270725	51.958	ug/l	99
25) 2-Butanone	6.896	43	208354	285.123	ug/l	98
26) 2,2-Dichloropropane	6.890	77	238523	50.556	ug/l	99
27) cis-1,2-Dichloroethene	6.896	96	171895	51.208	ug/l	99
28) Bromochloromethane	7.250	49	114068	52.427	ug/l	99
29) Tetrahydrofuran	7.268	42	136796	280.691	ug/l	99
30) Chloroform	7.427	83	263982	51.416	ug/l	99
31) Cyclohexane	7.701	56	228904	44.566	ug/l	98
32) 1,1,1-Trichloroethane	7.622	97	234335	50.290	ug/l	98
36) 1,1-Dichloropropene	7.835	75	198705	50.295	ug/l	99
37) Ethyl Acetate	6.988	43	91969	54.775	ug/l	98
38) Carbon Tetrachloride	7.823	117	204881	49.782	ug/l	99
39) Methylcyclohexane	9.109	83	253073	48.189	ug/l	99
40) Benzene	8.079	78	609847	51.876	ug/l	98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022428.D
Acq On : 27 May 2025 11:56
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Quant Time: May 28 15:25:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	7.268	41	81207	79.687 ug/l	#	50
42) 1,2-Dichloroethane	8.158	62	162203	52.242 ug/l		99
43) Isopropyl Acetate	8.201	43	199246	54.305 ug/l		99
44) Trichloroethene	8.866	130	151238	52.041 ug/l		98
45) 1,2-Dichloropropane	9.146	63	140797	50.975 ug/l		100
46) Dibromomethane	9.231	93	81139	52.586 ug/l		99
47) Bromodichloromethane	9.426	83	205314	51.745 ug/l		99
48) Methyl methacrylate	9.225	41	95846	56.276 ug/l		97
49) 1,4-Dioxane	9.244	88	17918	1051.366 ug/l		94
51) 4-Methyl-2-Pentanone	10.000	43	519609	287.032 ug/l		100
52) Toluene	10.170	92	387936	52.832 ug/l		99
53) t-1,3-Dichloropropene	10.396	75	199925	54.094 ug/l		94
54) cis-1,3-Dichloropropene	9.859	75	228509	52.618 ug/l		100
55) 1,1,2-Trichloroethane	10.573	97	103722	53.168 ug/l		99
56) Ethyl methacrylate	10.438	69	156757	55.994 ug/l		100
57) 1,3-Dichloropropane	10.719	76	180948	52.634 ug/l		99
58) 2-Chloroethyl Vinyl ether	9.713	63	362054	259.493 ug/l		100
59) 2-Hexanone	10.762	43	347563	292.964 ug/l		99
60) Dibromochloromethane	10.914	129	133735	53.666 ug/l		99
61) 1,2-Dibromoethane	11.018	107	96584	54.130 ug/l		98
64) Tetrachloroethene	10.646	164	153515	48.564 ug/l		95
65) Chlorobenzene	11.444	112	409198	51.703 ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.518	131	137345	51.219 ug/l		100
67) Ethyl Benzene	11.524	91	749047	50.971 ug/l		98
68) m/p-Xylenes	11.633	106	571164	102.513 ug/l		100
69) o-Xylene	11.957	106	268131	51.205 ug/l		100
70) Styrene	11.969	104	456865	52.397 ug/l		100
71) Bromoform	12.133	173	73628	52.420 ug/l	#	98
73) Isopropylbenzene	12.255	105	698311	50.060 ug/l		100
74) N-amyl acetate	12.072	43	182818	53.559 ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.505	83	117150	53.303 ug/l		99
76) 1,2,3-Trichloropropane	12.560	75	164872	92.866 ug/l	#	100
77) Bromobenzene	12.536	156	151539	50.481 ug/l		98
78) n-propylbenzene	12.597	91	853326	50.973 ug/l		99
79) 2-Chlorotoluene	12.682	91	455944	50.314 ug/l		100
80) 1,3,5-Trimethylbenzene	12.737	105	559964	51.376 ug/l		99
81) trans-1,4-Dichloro-2-b...	12.304	75	40088	51.064 ug/l		98
82) 4-Chlorotoluene	12.780	91	475462	50.944 ug/l		100
83) tert-Butylbenzene	12.999	119	505382	51.321 ug/l		100
84) 1,2,4-Trimethylbenzene	13.042	105	562945	51.325 ug/l		100
85) sec-Butylbenzene	13.176	105	755958	51.763 ug/l		99
86) p-Isopropyltoluene	13.292	119	638231	52.334 ug/l		100
87) 1,3-Dichlorobenzene	13.292	146	310435	51.396 ug/l		99
88) 1,4-Dichlorobenzene	13.371	146	298140	51.622 ug/l		100
89) n-Butylbenzene	13.615	91	601455	52.600 ug/l		100
90) Hexachloroethane	13.883	117	125908	51.881 ug/l		100
91) 1,2-Dichlorobenzene	13.657	146	255789	50.701 ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	17817	52.462 ug/l		98
93) 1,2,4-Trichlorobenzene	14.919	180	146574	52.407 ug/l		98
94) Hexachlorobutadiene	15.023	225	76816	52.335 ug/l		97
95) Naphthalene	15.145	128	283477	54.826 ug/l		100
96) 1,2,3-Trichlorobenzene	15.328	180	123635	53.900 ug/l		98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022428.D
Acq On : 27 May 2025 11:56
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Quant Time: May 28 15:25:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration

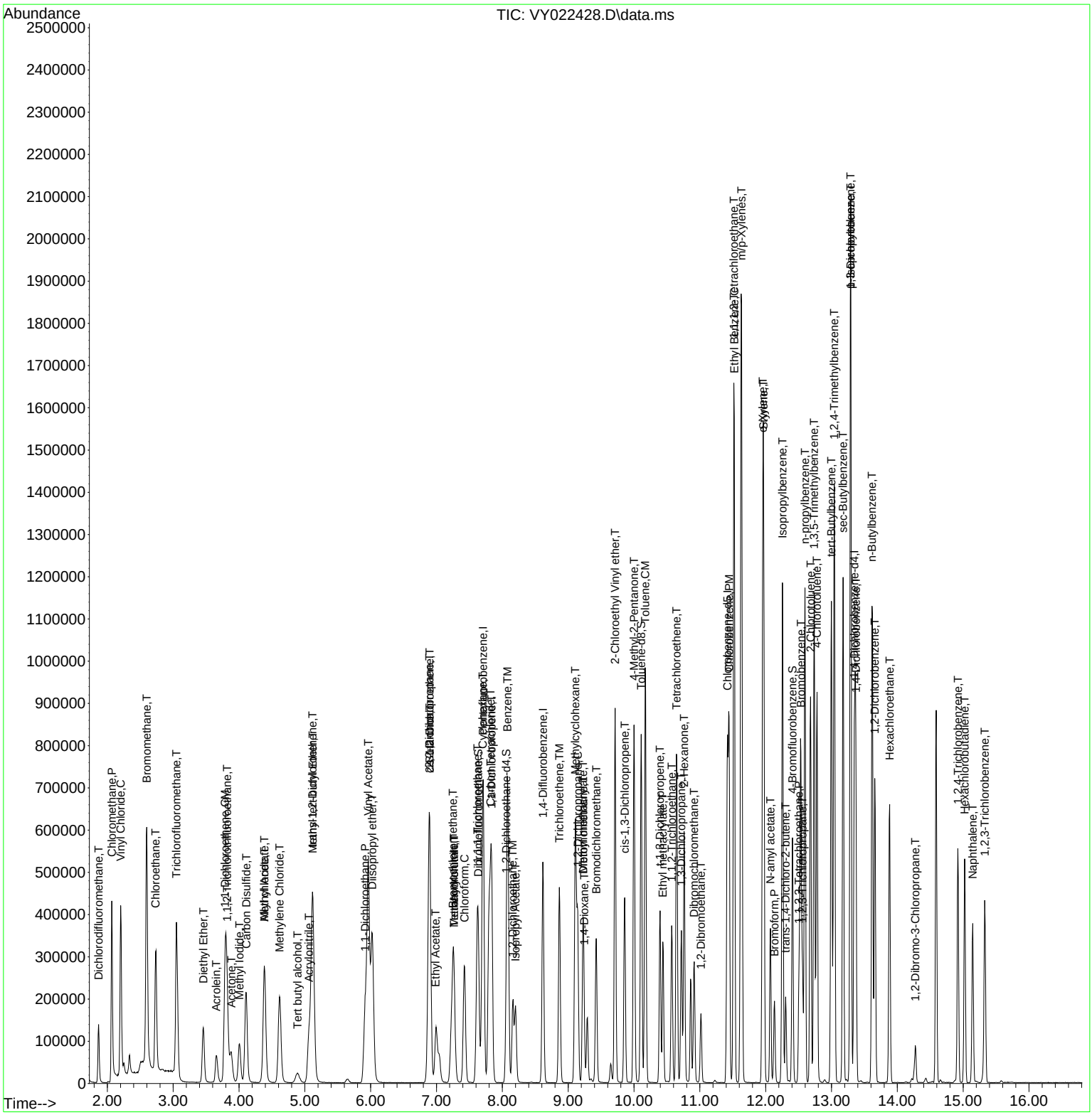
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

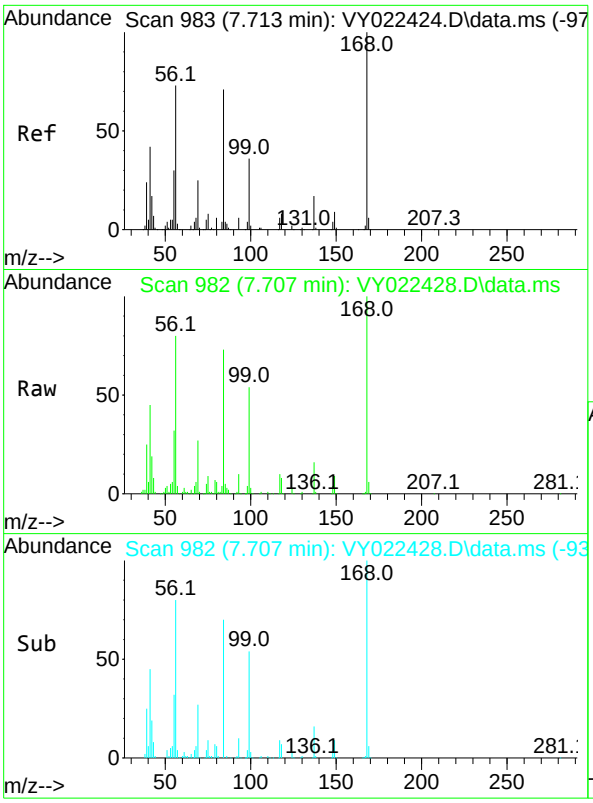
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022428.D
Acq On : 27 May 2025 11:56
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Quant Time: May 28 15:25:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration



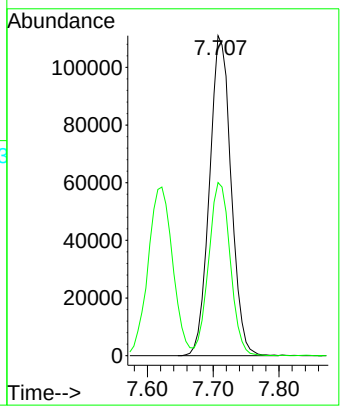


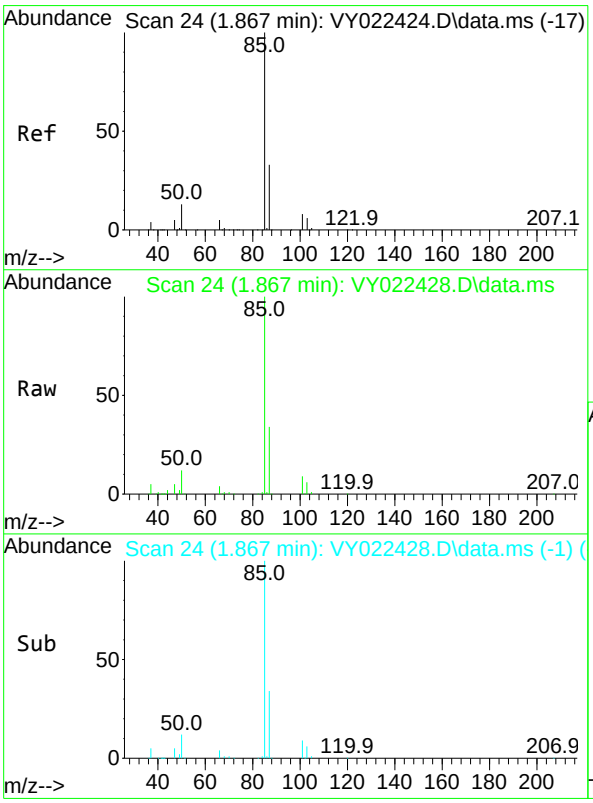
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Tgt Ion:168 Resp: 253507

Ion	Ratio	Lower	Upper
168	100		
99	54.1	44.7	67.1

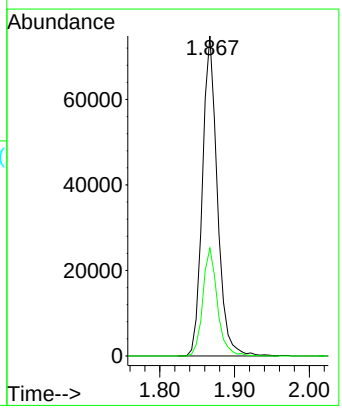


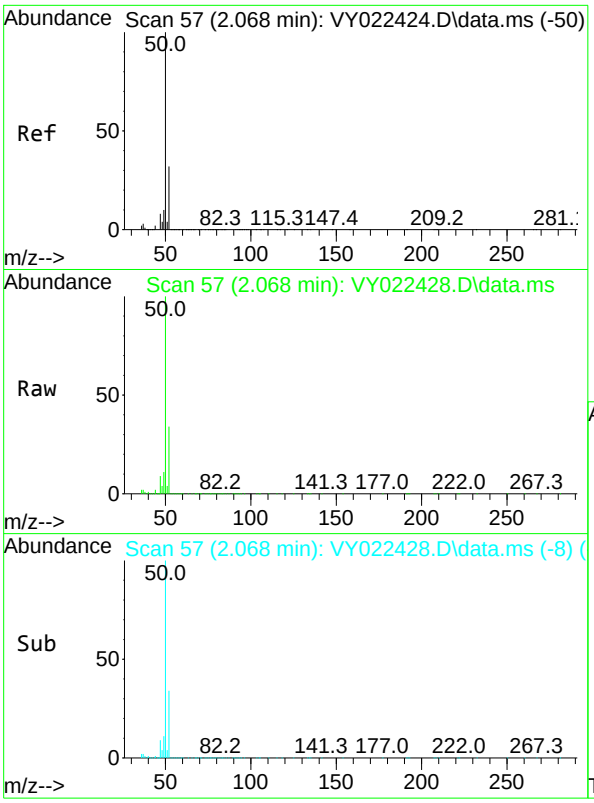


#2
Dichlorodifluoromethane
Concen: 42.867 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 85 Resp: 103680

Ion	Ratio	Lower	Upper
85	100		
87	33.7	16.4	49.2



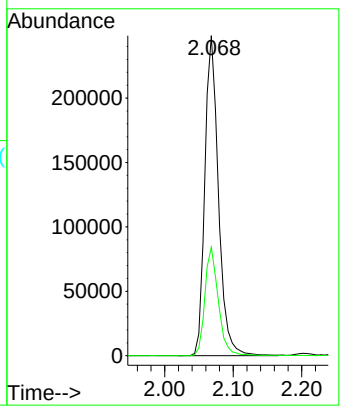


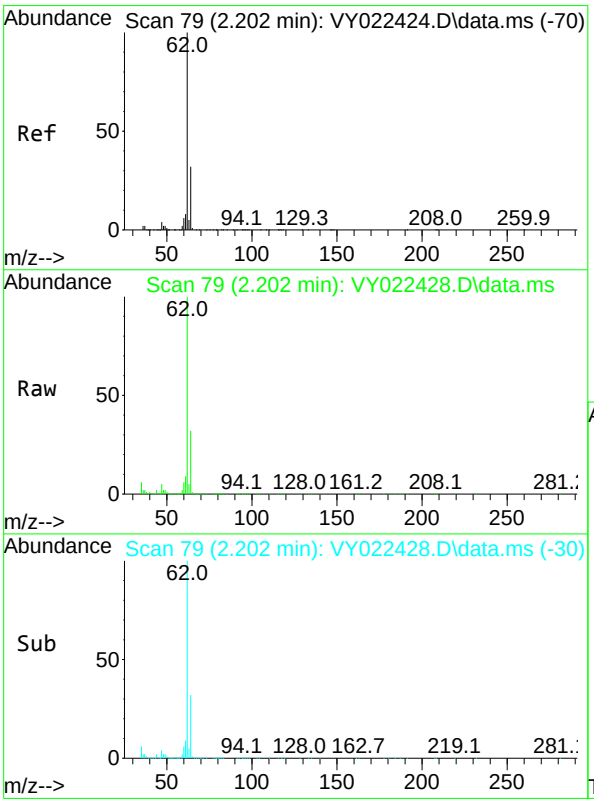
#3
Chloromethane
Concen: 57.762 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Tgt Ion: 50 Resp: 343646

Ion	Ratio	Lower	Upper
50	100		
52	33.9	25.5	38.3

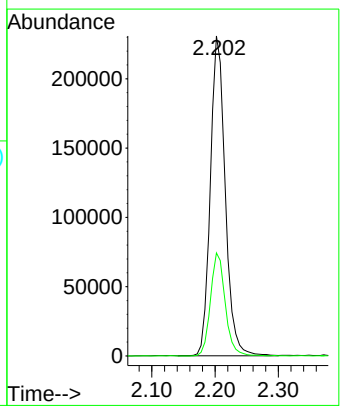


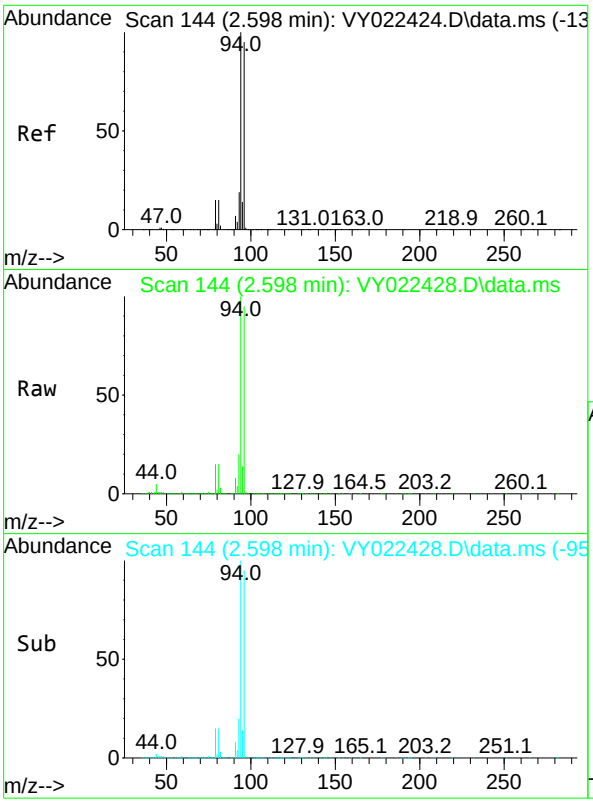


#4
Vinyl Chloride
Concen: 52.322 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 62 Resp: 378150

Ion	Ratio	Lower	Upper
62	100		
64	32.2	26.0	39.0



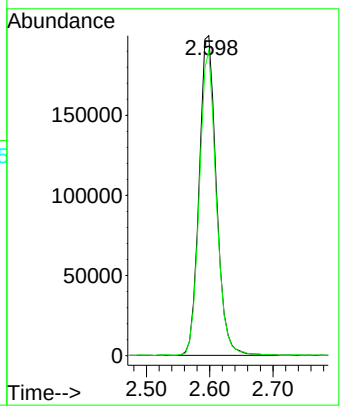


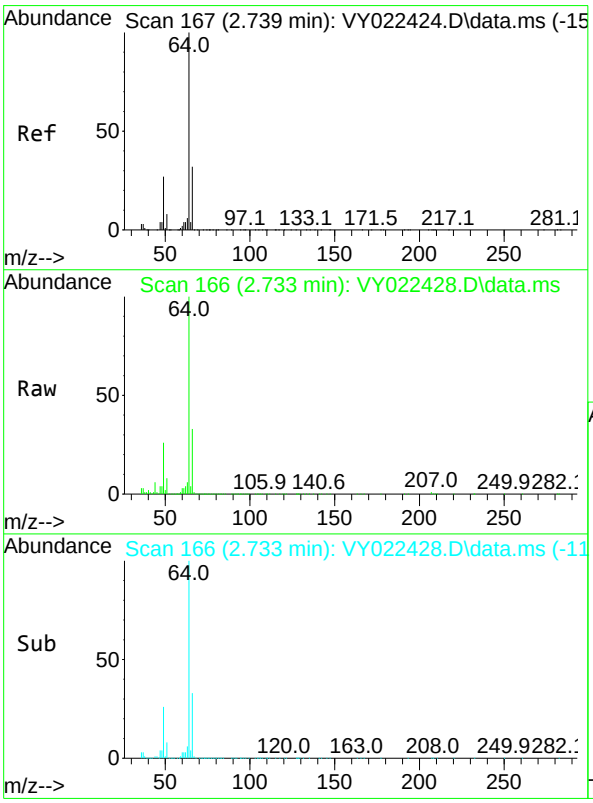
#5
Bromomethane
Concen: 57.634 ug/l
RT: 2.598 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Tgt Ion: 94 Resp: 378531

Ion	Ratio	Lower	Upper
94	100		
96	95.2	76.0	114.0

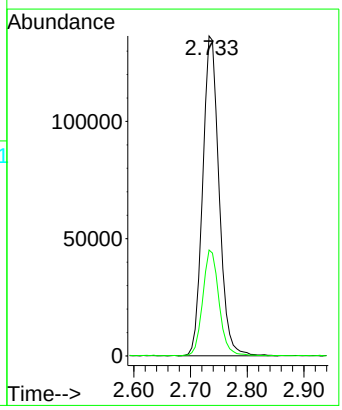


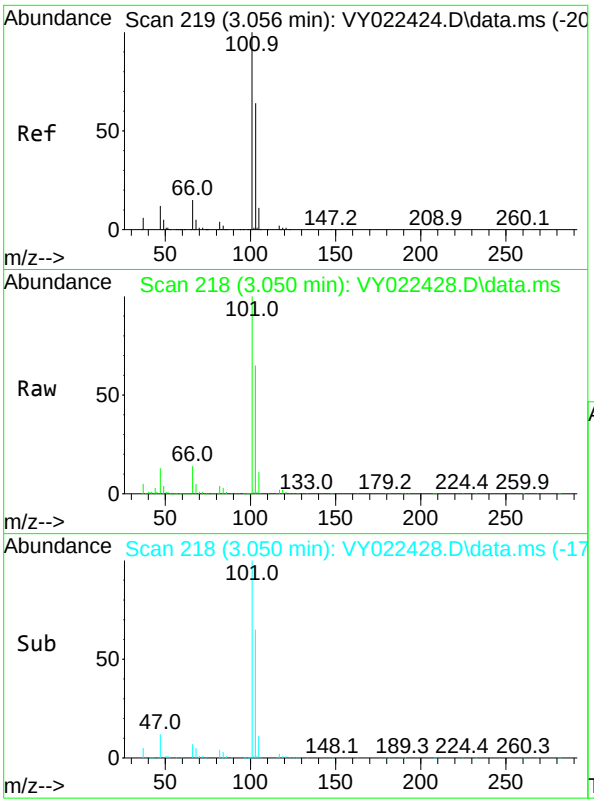


#6
Chloroethane
Concen: 57.677 ug/l
RT: 2.733 min Scan# 166
Delta R.T. -0.006 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 64 Resp: 272398

Ion	Ratio	Lower	Upper
64	100		
66	33.1	25.9	38.9



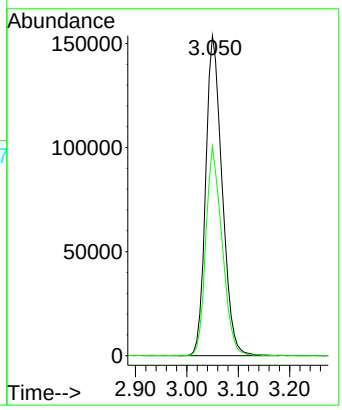


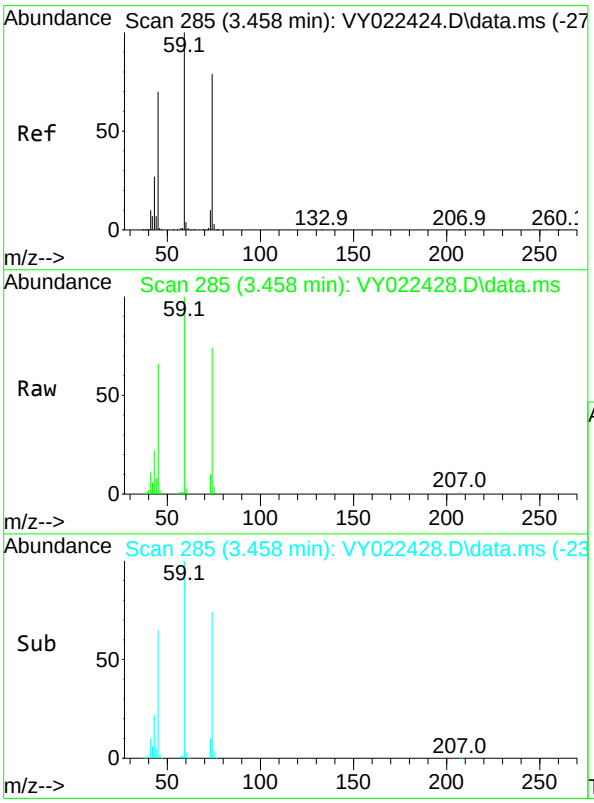
#7
Trichlorofluoromethane
Concen: 55.933 ug/l
RT: 3.050 min Scan# 21
Delta R.T. -0.006 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Tgt Ion:101 Resp: 341076

Ion	Ratio	Lower	Upper
101	100		
103	65.4	50.9	76.3

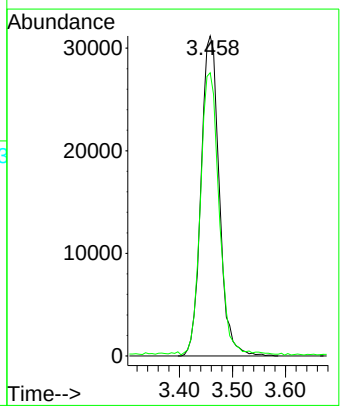


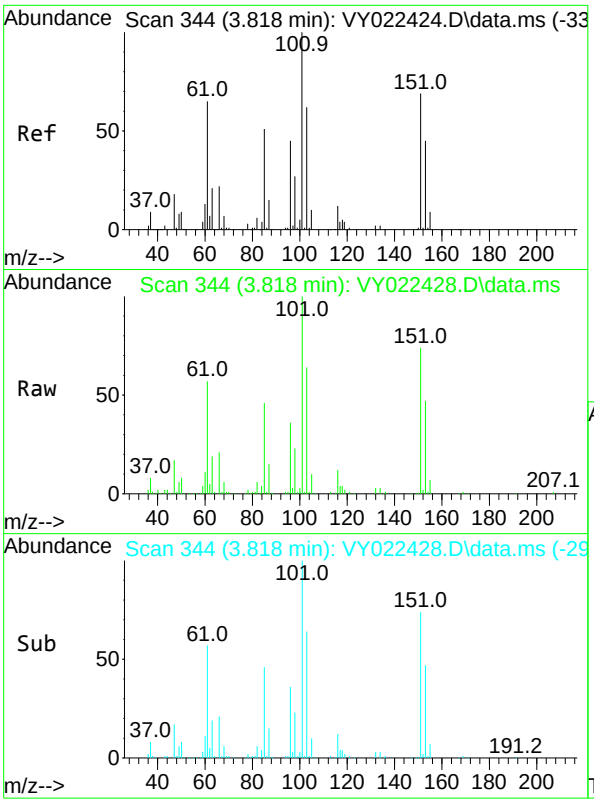


#8
Diethyl Ether
Concen: 52.801 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 74 Resp: 74240

Ion	Ratio	Lower	Upper
74	100		
45	90.9	44.9	134.5



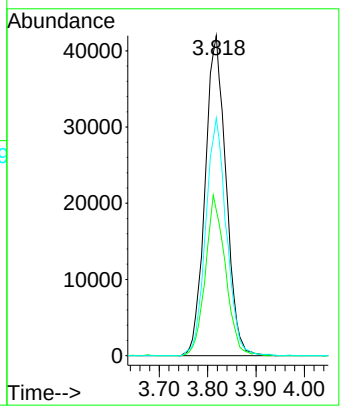


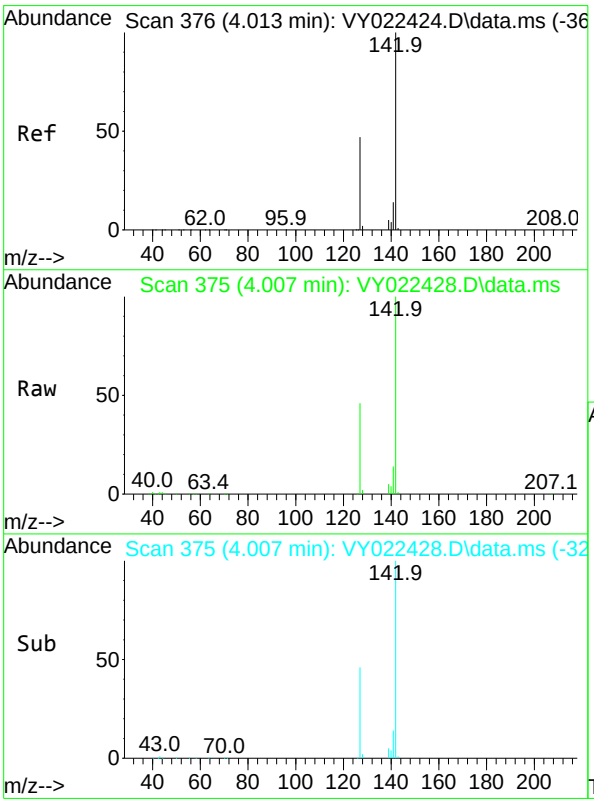
#9
1,1,2-Trichlorotrifluoroethane
Concen: 47.001 ug/l
RT: 3.818 min Scan# 34
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Tgt Ion:101 Resp: 125740

Ion	Ratio	Lower	Upper
101	100		
85	48.1	39.2	58.8
151	73.8	58.8	88.2

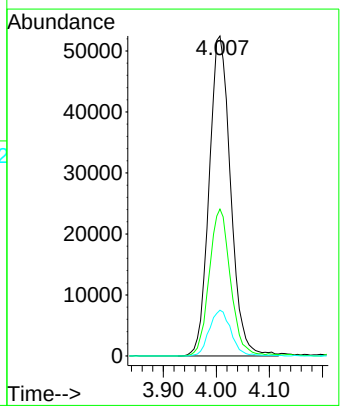


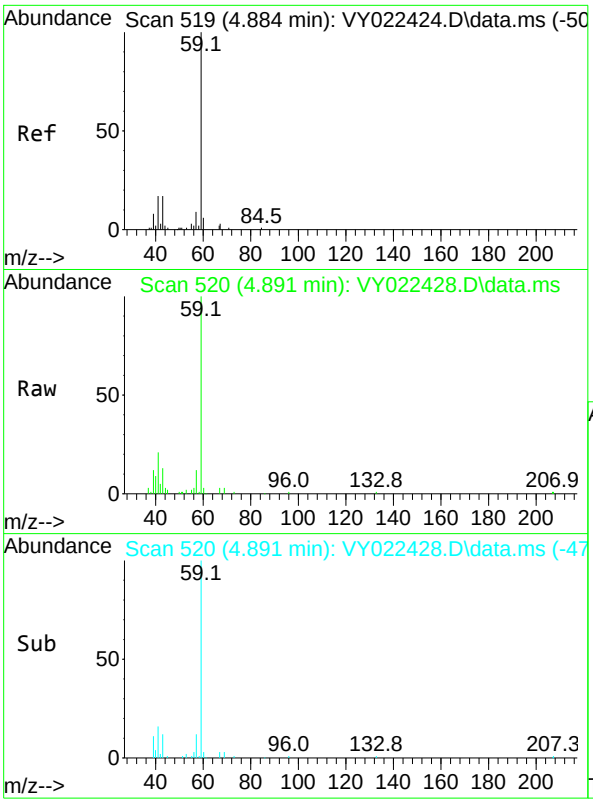


#10
Methyl Iodide
Concen: 48.805 ug/l
RT: 4.007 min Scan# 375
Delta R.T. -0.006 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion:142 Resp: 147302

Ion	Ratio	Lower	Upper
142	100		
127	45.5	36.2	54.4
141	14.6	11.6	17.4



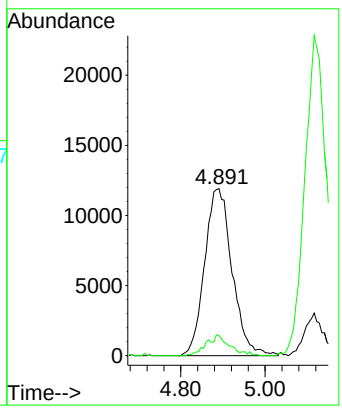


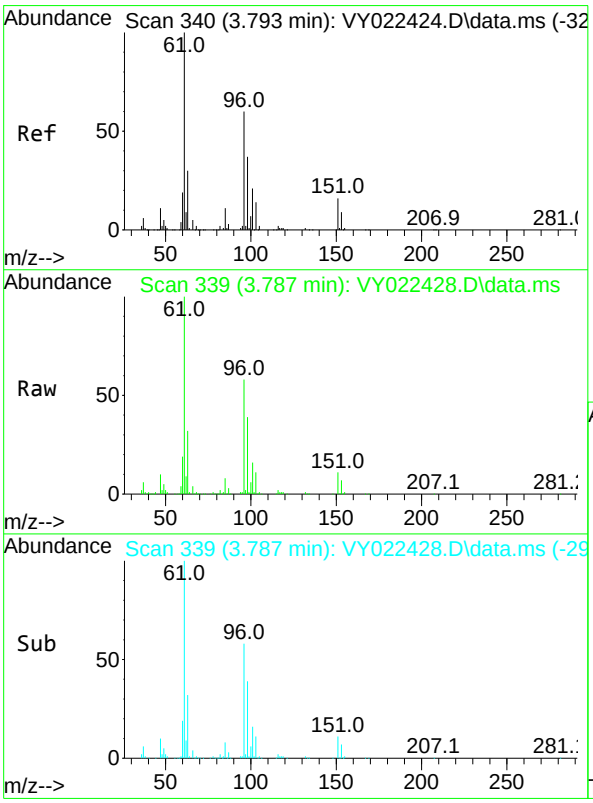
#11
Tert butyl alcohol
Concen: 286.443 ug/l
RT: 4.891 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Tgt Ion: 59 Resp: 53913

Ion	Ratio	Lower	Upper
59	100		
57	10.6	9.1	13.7

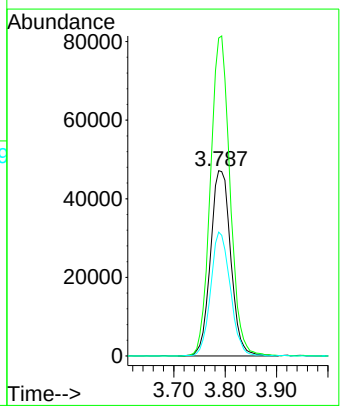


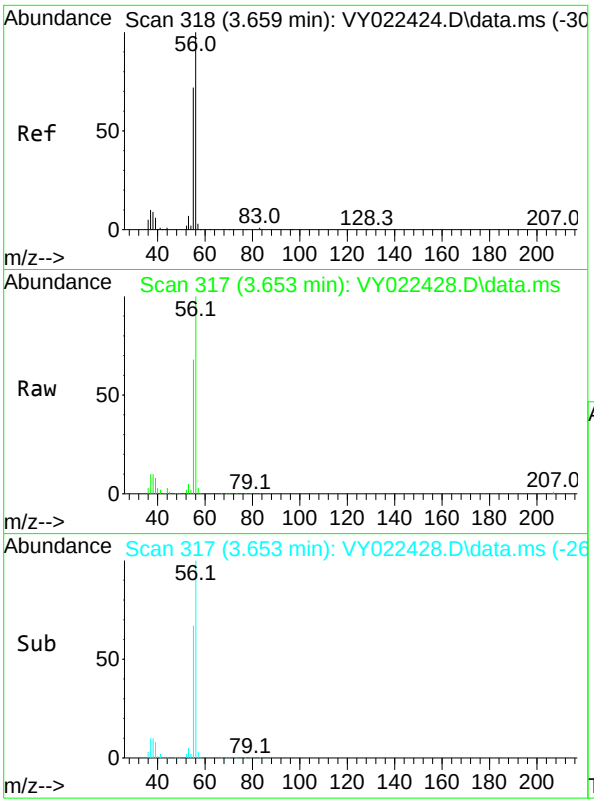


#12
1,1-Dichloroethene
Concen: 48.624 ug/l
RT: 3.787 min Scan# 339
Delta R.T. -0.006 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 96 Resp: 129146

Ion	Ratio	Lower	Upper
96	100		
61	171.6	134.1	201.1
98	66.8	50.2	75.2



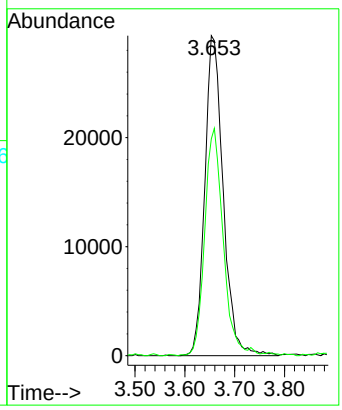


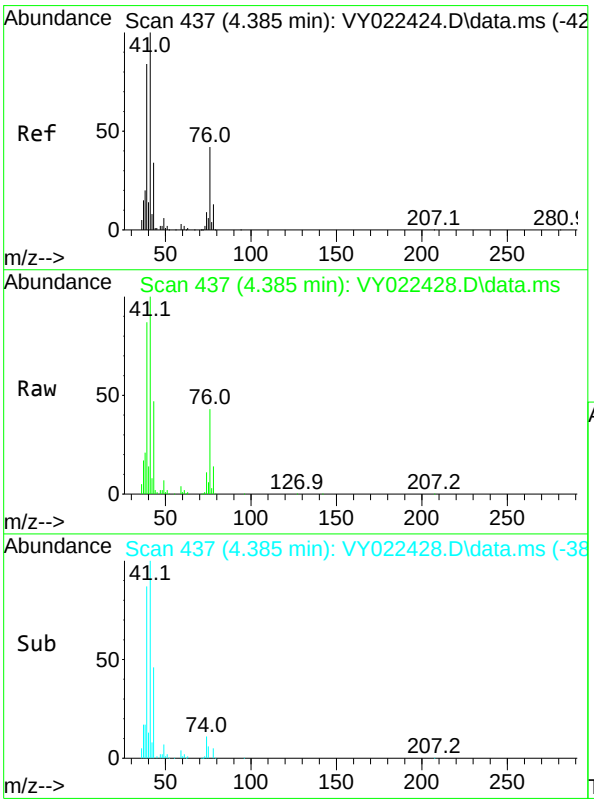
#13
Acrolein
Concen: 266.723 ug/l
RT: 3.653 min Scan# 3
Delta R.T. -0.006 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Tgt Ion: 56 Resp: 75220

Ion	Ratio	Lower	Upper
56	100		
55	70.6	56.5	84.7

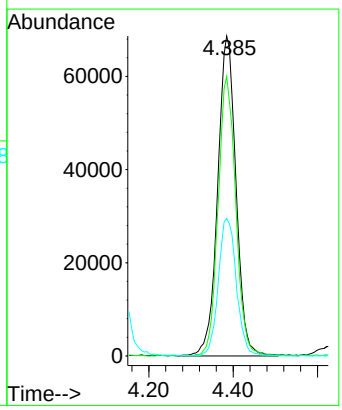


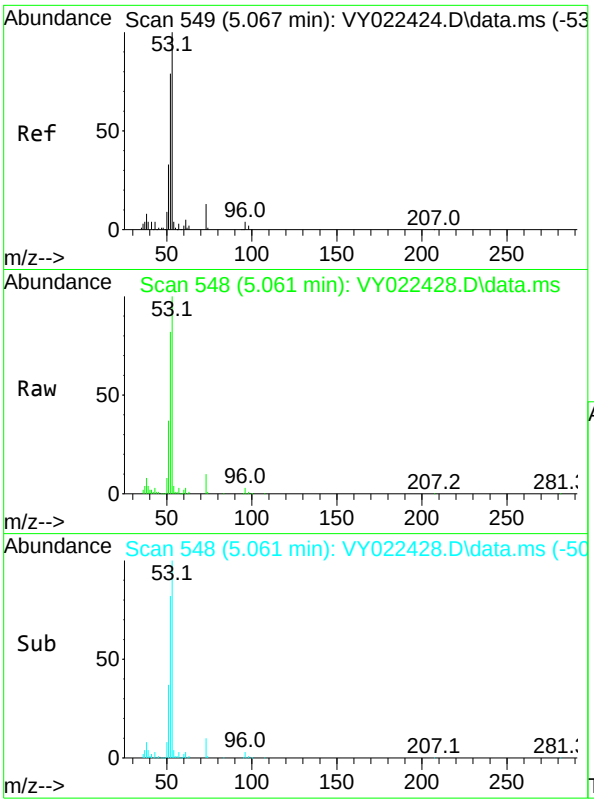


#14
Allyl chloride
Concen: 51.736 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 41 Resp: 206704

Ion	Ratio	Lower	Upper
41	100		
39	84.3	66.6	100.0
76	42.4	33.7	50.5



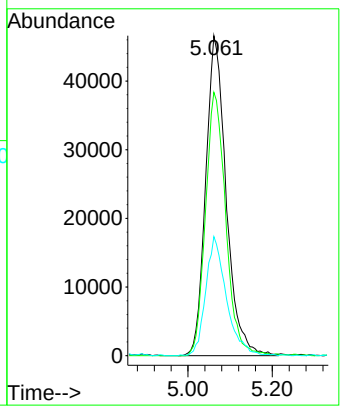


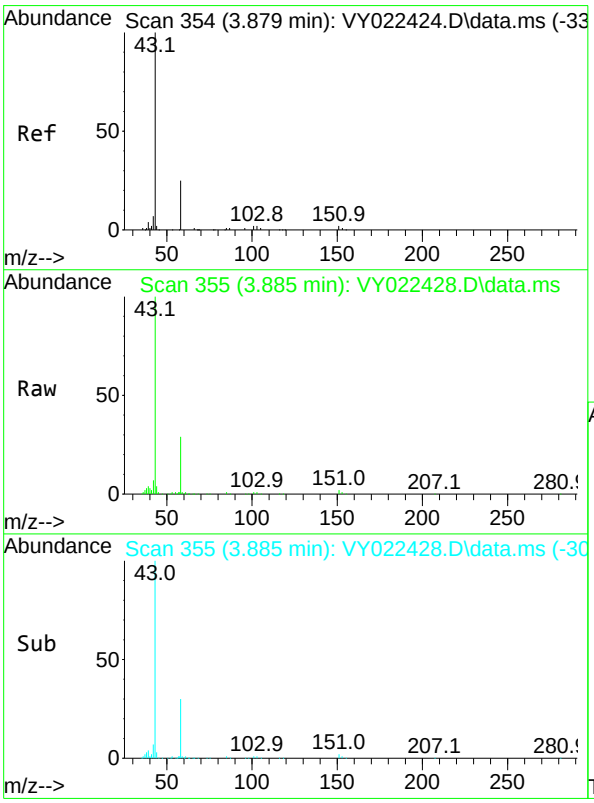
#15
Acrylonitrile
Concen: 277.887 ug/l
RT: 5.061 min Scan# 54
Delta R.T. -0.006 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Tgt Ion: 53 Resp: 157491

Ion	Ratio	Lower	Upper
53	100		
52	81.3	65.1	97.7
51	37.7	30.0	45.0

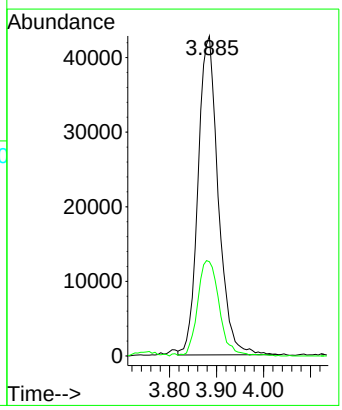


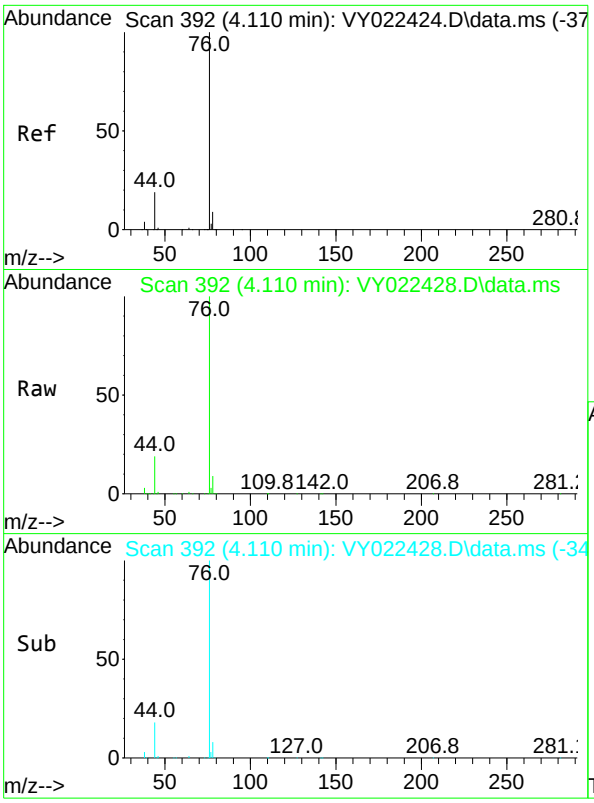


#16
Acetone
Concen: 290.164 ug/l
RT: 3.885 min Scan# 355
Delta R.T. 0.006 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 43 Resp: 127318

Ion	Ratio	Lower	Upper
43	100		
58	29.4	20.6	30.8



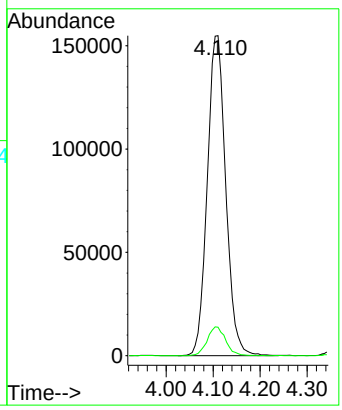


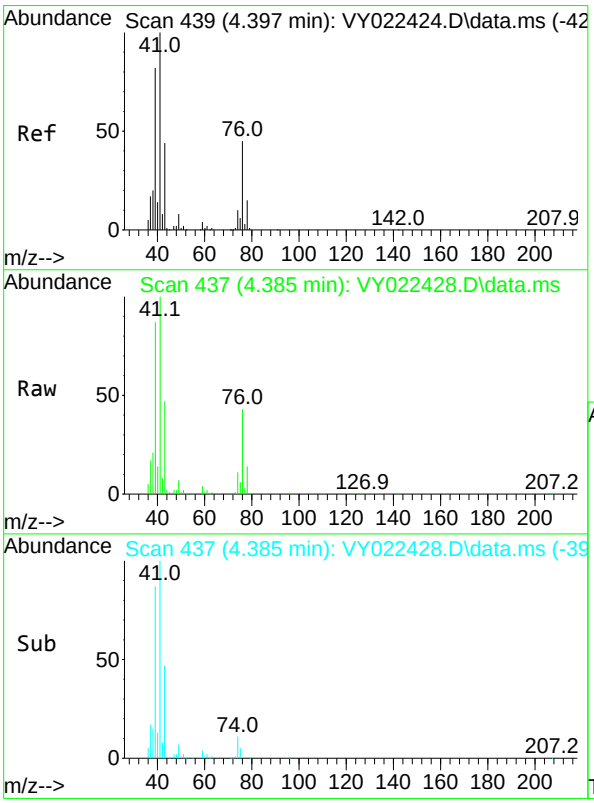
#17
Carbon Disulfide
Concen: 49.820 ug/l
RT: 4.110 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Tgt Ion: 76 Resp: 422273

Ion	Ratio	Lower	Upper
76	100		
78	8.9	7.2	10.8

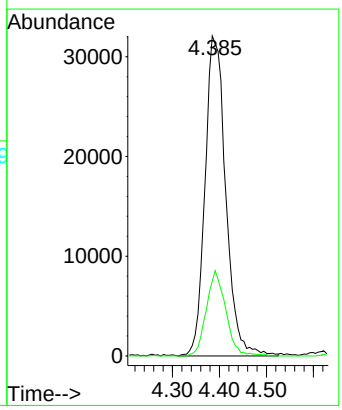


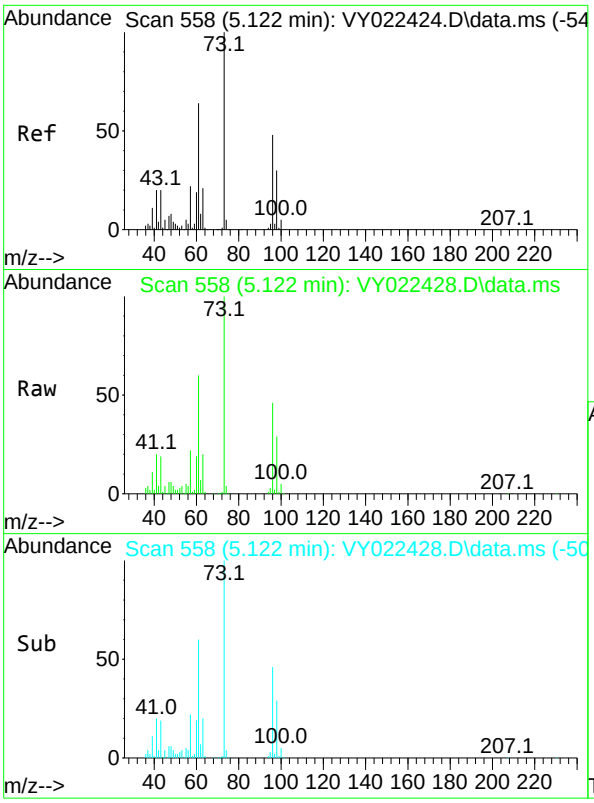


#18
Methyl Acetate
Concen: 59.833 ug/l
RT: 4.385 min Scan# 437
Delta R.T. -0.012 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 43 Resp: 98344

Ion	Ratio	Lower	Upper
43	100		
74	24.8	21.2	31.8



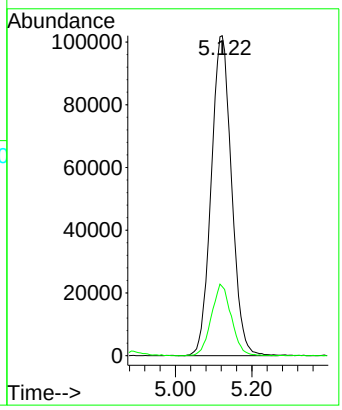


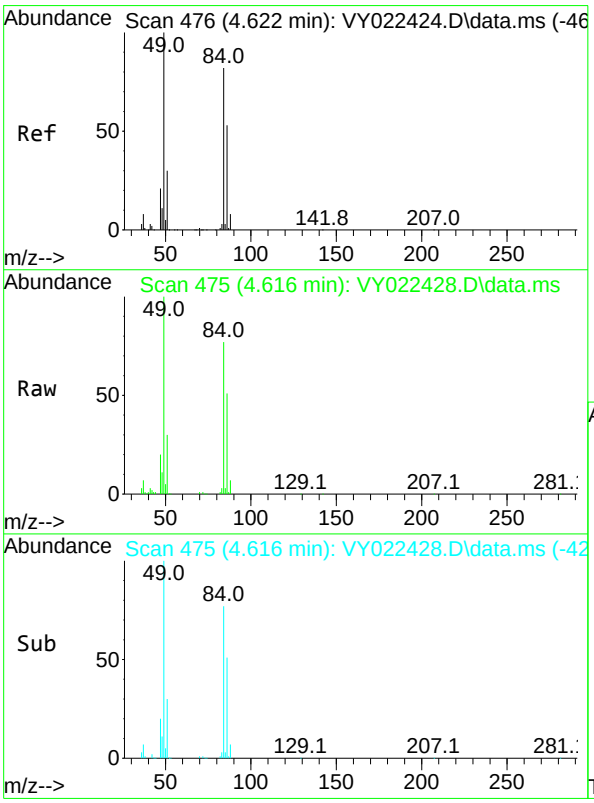
#19
Methyl tert-butyl Ether
Concen: 53.423 ug/l
RT: 5.122 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Tgt Ion: 73 Resp: 376709

Ion	Ratio	Lower	Upper
73	100		
57	21.6	17.7	26.5

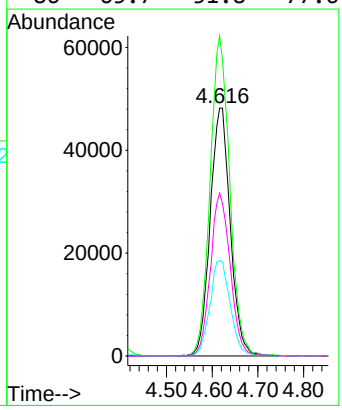


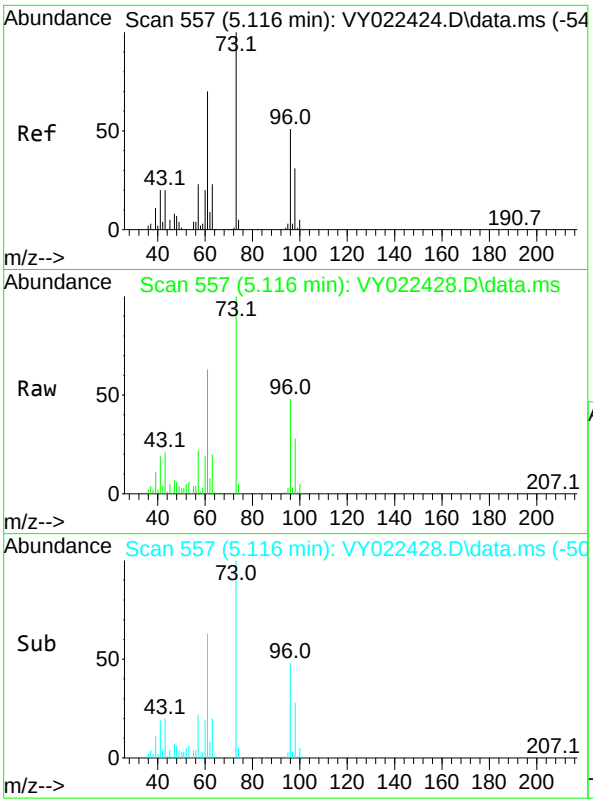


#20
Methylene Chloride
Concen: 47.566 ug/l
RT: 4.616 min Scan# 475
Delta R.T. -0.006 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 84 Resp: 147382

Ion	Ratio	Lower	Upper
84	100		
49	128.9	97.8	146.8
51	38.5	29.5	44.3
86	65.7	51.8	77.6



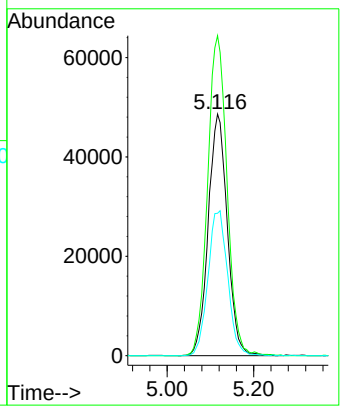


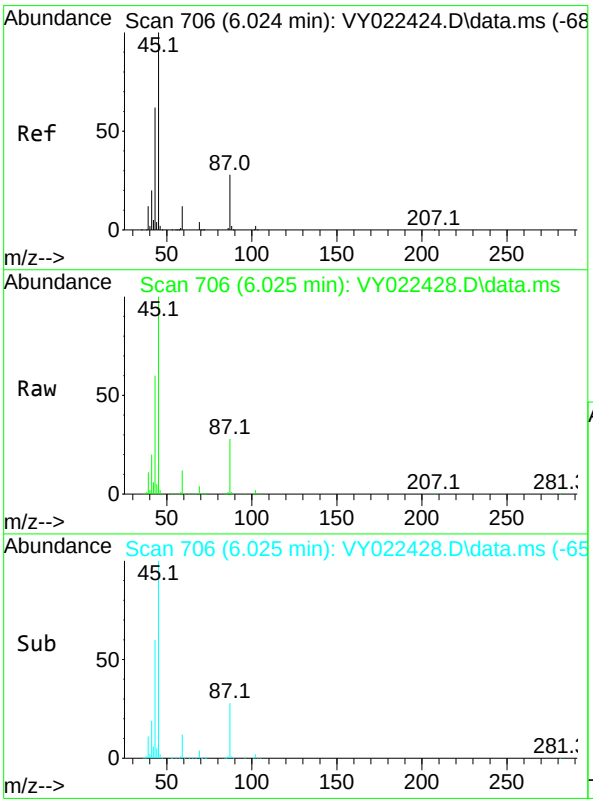
#21
trans-1,2-Dichloroethene
Concen: 51.401 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Tgt Ion: 96 Resp: 149045

Ion	Ratio	Lower	Upper
96	100		
61	132.4	110.4	165.6
98	59.0	48.6	73.0

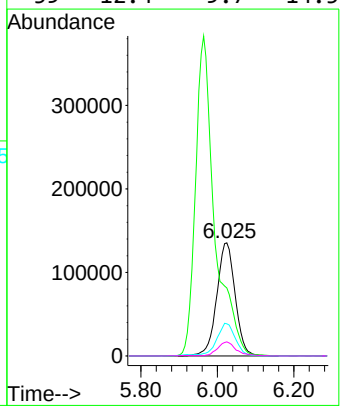


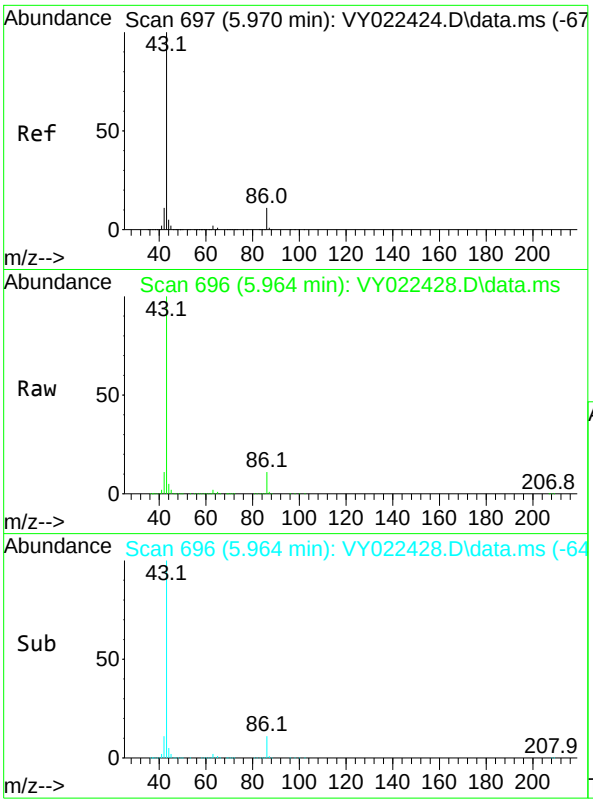


#22
Diisopropyl ether
Concen: 51.423 ug/l
RT: 6.025 min Scan# 706
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 45 Resp: 453438

Ion	Ratio	Lower	Upper
45	100		
43	59.8	49.8	74.8
87	28.4	23.0	34.6
59	12.4	9.7	14.5



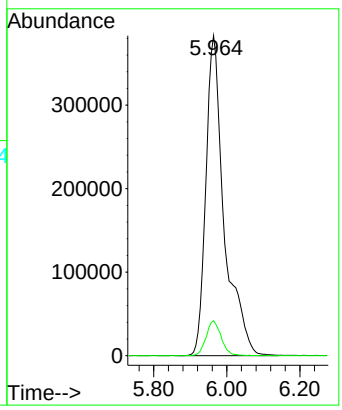


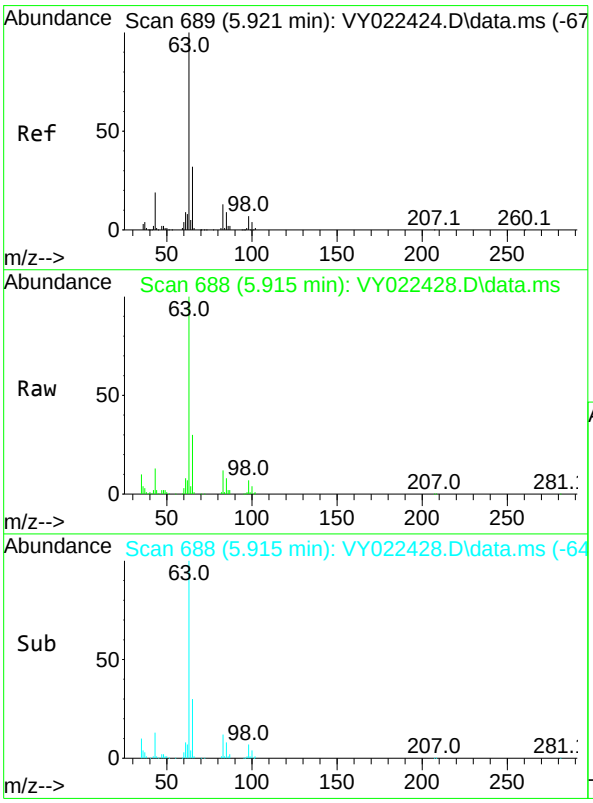
#23
Vinyl Acetate
Concen: 262.697 ug/l
RT: 5.964 min Scan# 6
Delta R.T. -0.006 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Tgt Ion: 43 Resp: 1330055

Ion	Ratio	Lower	Upper
43	100		
86	10.9	8.8	13.2

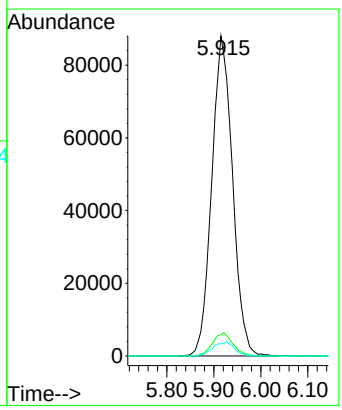


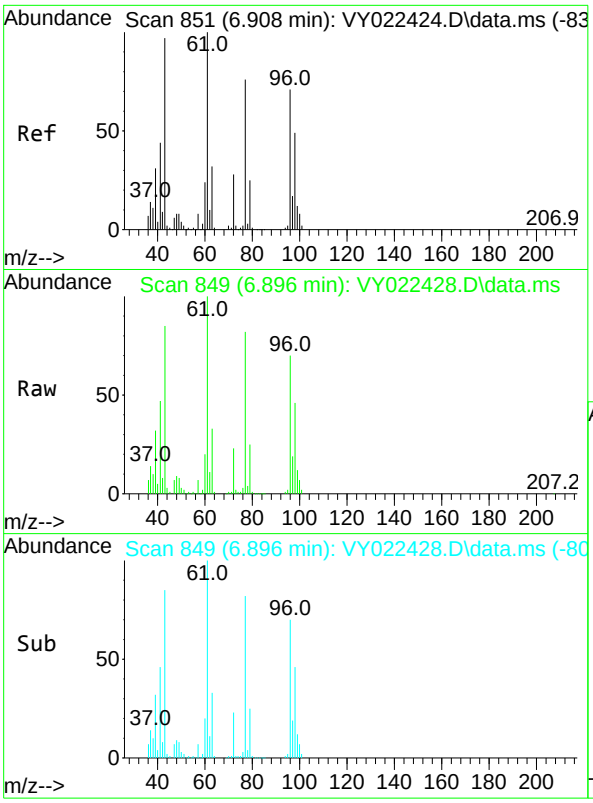


#24
1,1-Dichloroethane
Concen: 51.958 ug/l
RT: 5.915 min Scan# 688
Delta R.T. -0.006 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 63 Resp: 270725

Ion	Ratio	Lower	Upper
63	100		
98	6.6	3.5	10.5
100	3.8	2.1	6.5



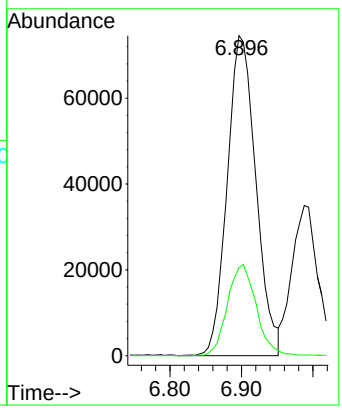


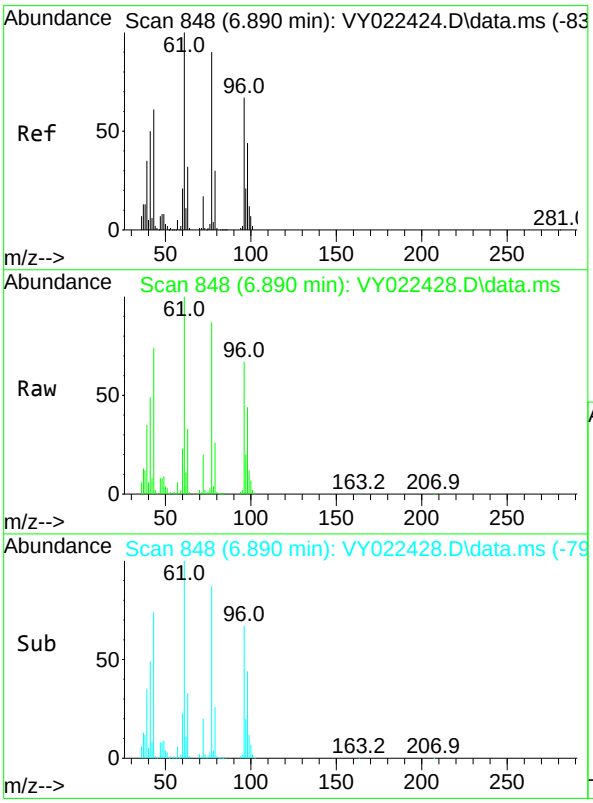
#25
2-Butanone
Concen: 285.123 ug/l
RT: 6.896 min Scan# 84
Delta R.T. -0.012 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Tgt Ion: 43 Resp: 208354

Ion	Ratio	Lower	Upper
43	100		
72	27.5	22.8	34.2

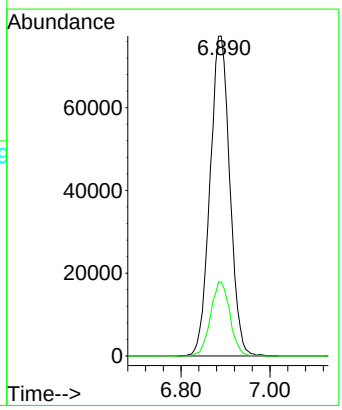


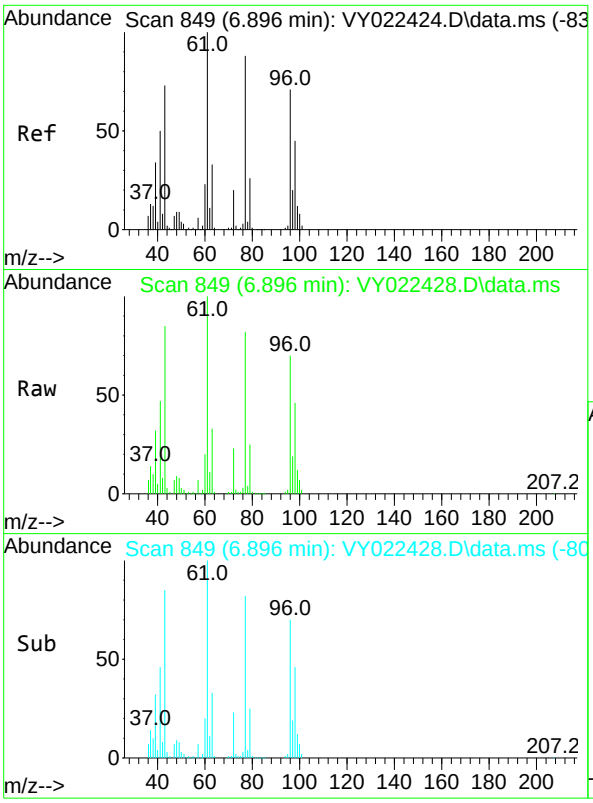


#26
2,2-Dichloropropane
Concen: 50.556 ug/l
RT: 6.890 min Scan# 848
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 77 Resp: 238523

Ion	Ratio	Lower	Upper
77	100		
97	22.6	11.6	34.7



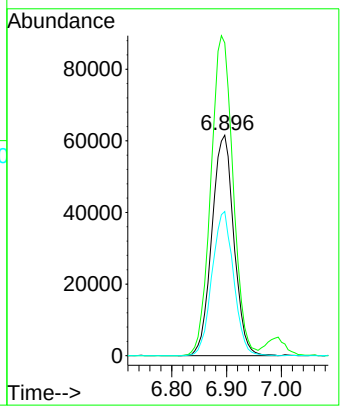


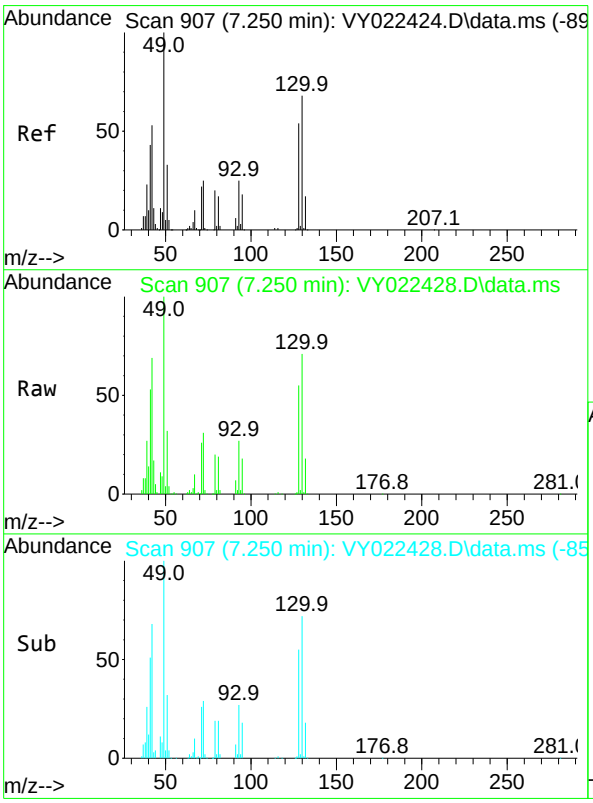
#27
cis-1,2-Dichloroethene
Concen: 51.208 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Tgt Ion: 96 Resp: 171895

Ion	Ratio	Lower	Upper
96	100		
61	146.7	0.0	292.0
98	64.2	0.0	131.0

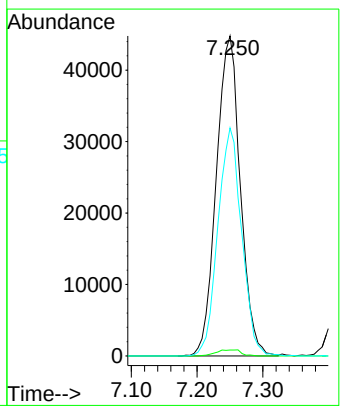


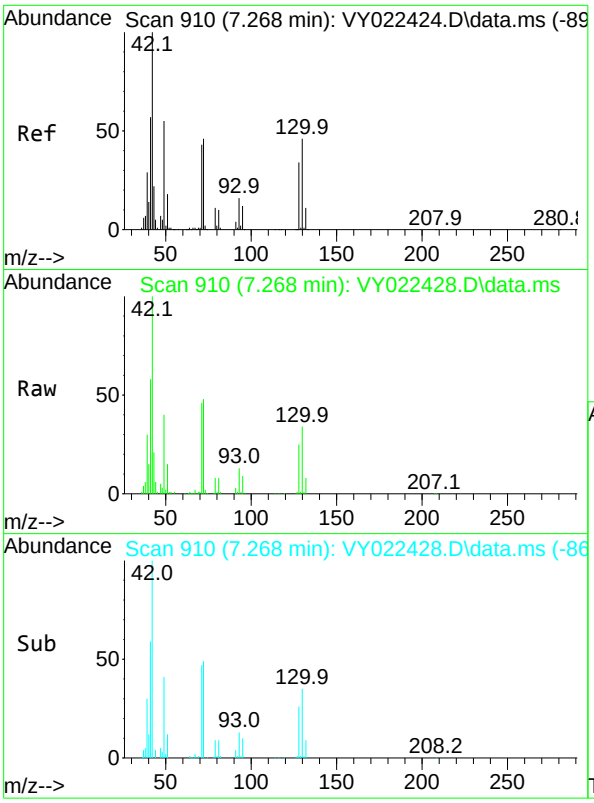


#28
Bromochloromethane
Concen: 52.427 ug/l
RT: 7.250 min Scan# 907
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 49 Resp: 114068

Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	4.0
130	70.5	56.9	85.3



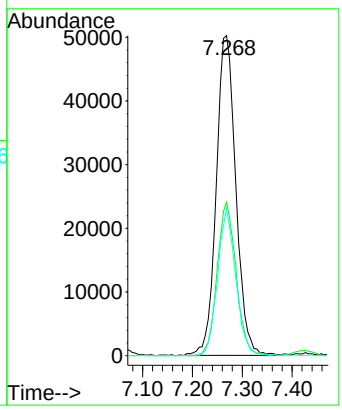


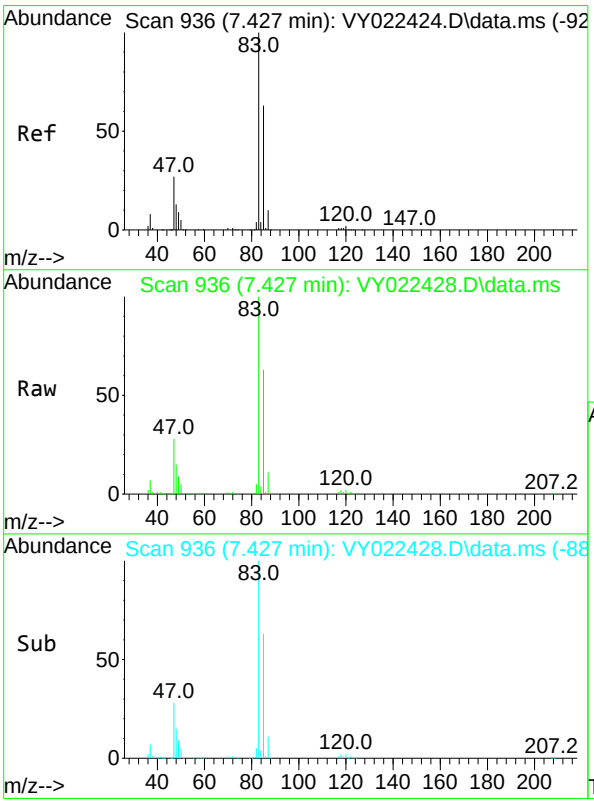
#29
Tetrahydrofuran
Concen: 280.691 ug/l
RT: 7.268 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Tgt Ion: 42 Resp: 136796

Ion	Ratio	Lower	Upper
42	100		
72	46.3	37.7	56.5
71	43.0	34.7	52.1

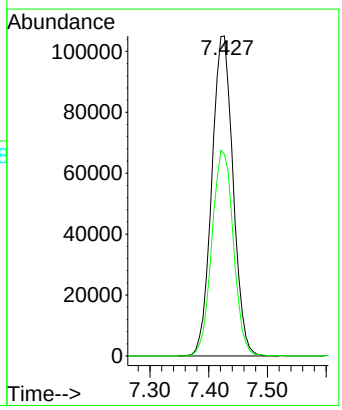


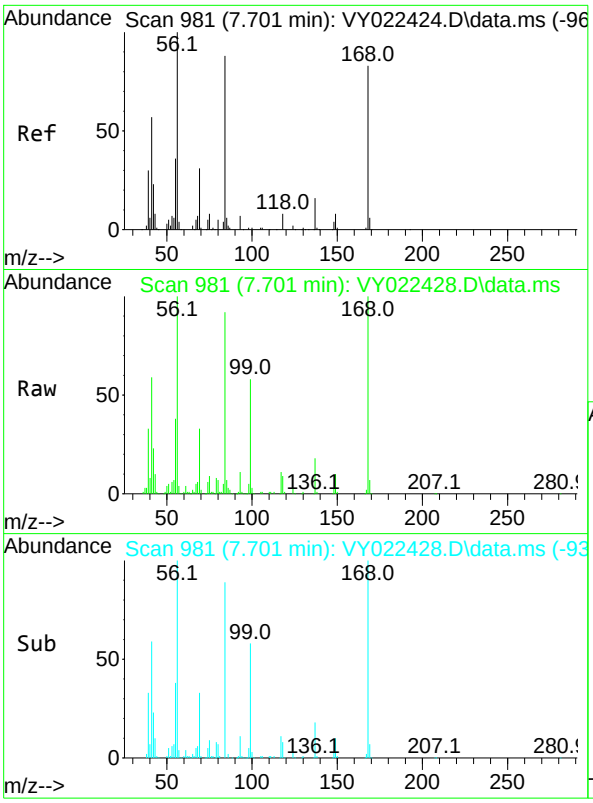


#30
Chloroform
Concen: 51.416 ug/l
RT: 7.427 min Scan# 936
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 83 Resp: 263982

Ion	Ratio	Lower	Upper
83	100		
85	63.0	50.1	75.1



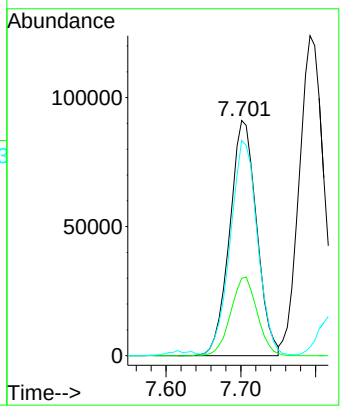


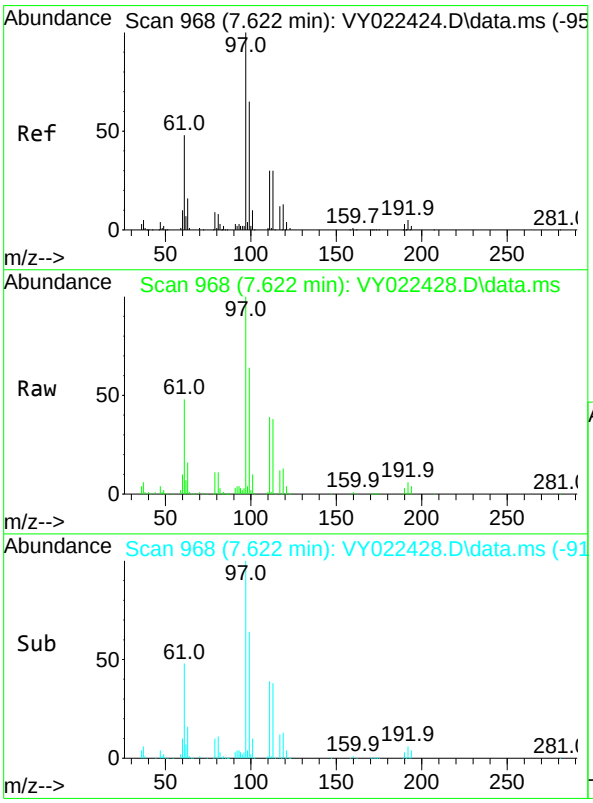
#31
Cyclohexane
Concen: 44.566 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Tgt Ion: 56 Resp: 228904

Ion	Ratio	Lower	Upper
56	100		
69	32.8	24.6	36.8
84	89.3	70.4	105.6

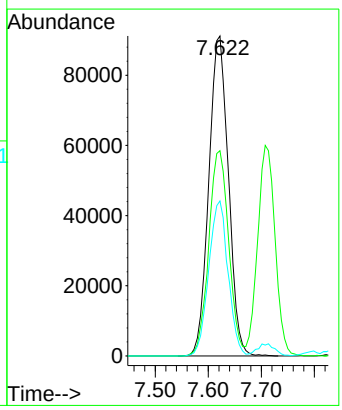


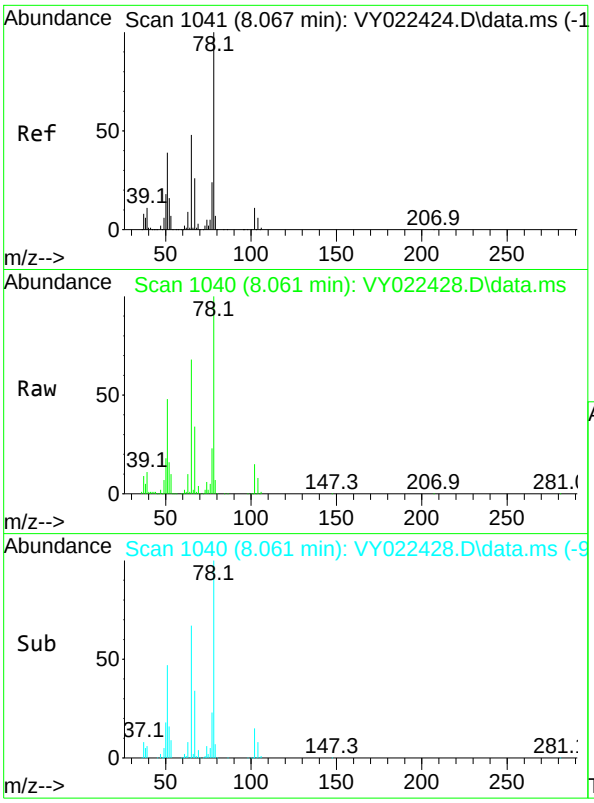


#32
1,1,1-Trichloroethane
Concen: 50.290 ug/l
RT: 7.622 min Scan# 968
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 97 Resp: 234335

Ion	Ratio	Lower	Upper
97	100		
99	65.5	51.3	76.9
61	47.8	37.3	55.9



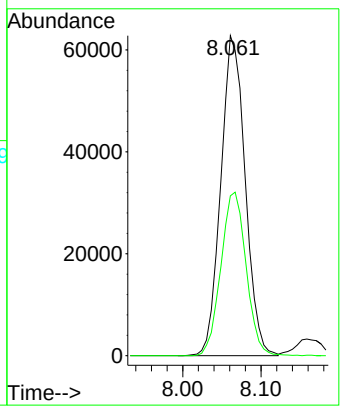


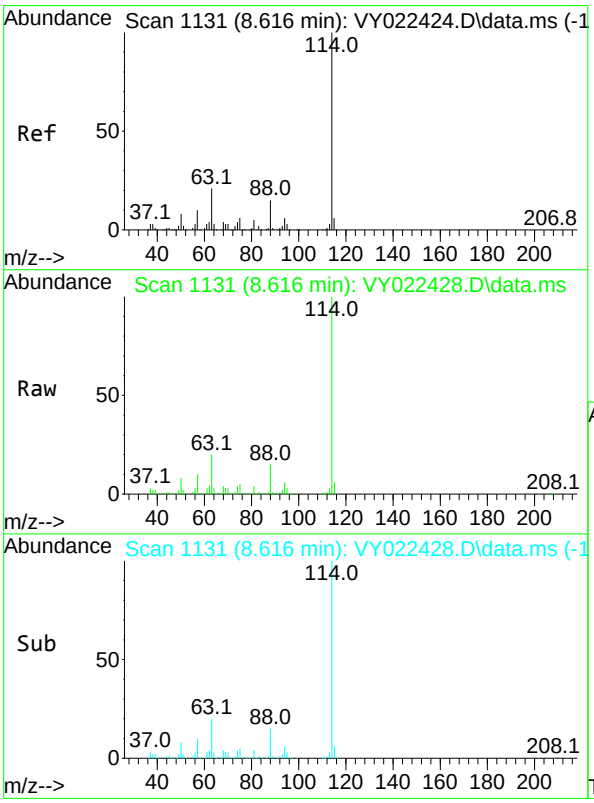
#33
1,2-Dichloroethane-d4
Concen: 50.905 ug/l
RT: 8.061 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Tgt Ion: 65 Resp: 135927

Ion	Ratio	Lower	Upper
65	100		
67	52.8	0.0	104.4

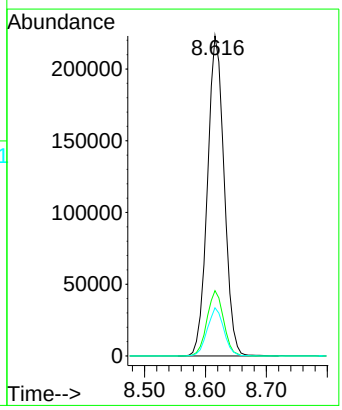


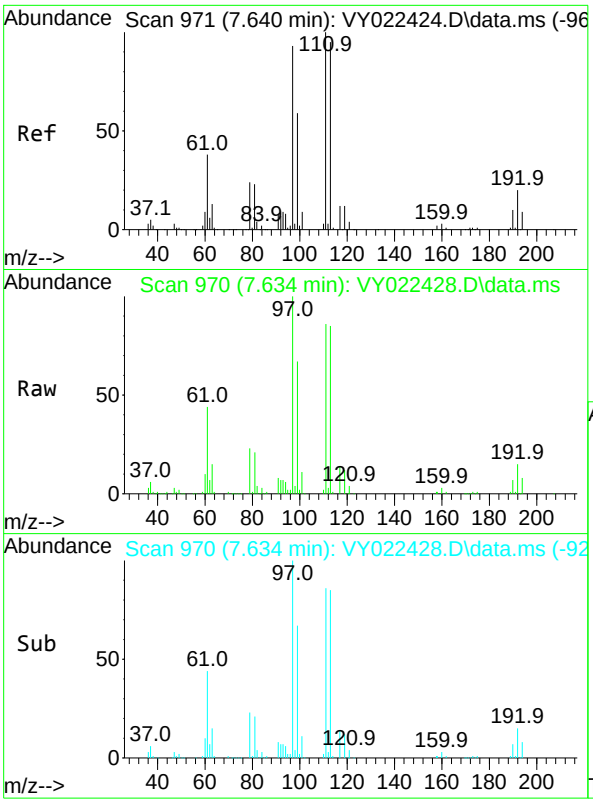


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion:114 Resp: 425137

Ion	Ratio	Lower	Upper
114	100		
63	20.4	0.0	42.6
88	15.0	0.0	29.4



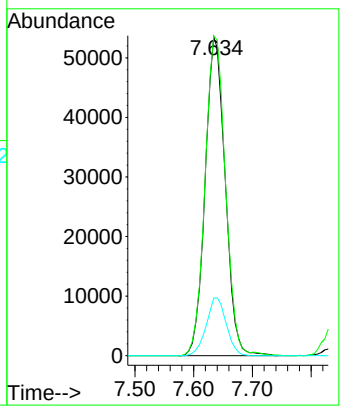


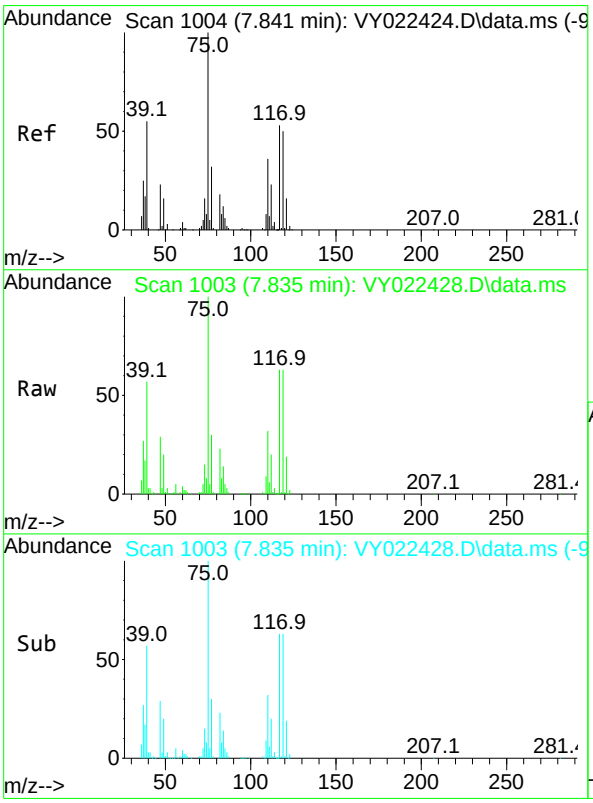
#35
Dibromofluoromethane
Concen: 50.924 ug/l
RT: 7.634 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Tgt Ion:113 Resp: 126788

Ion	Ratio	Lower	Upper
113	100		
111	102.7	82.4	123.6
192	18.1	15.2	22.8

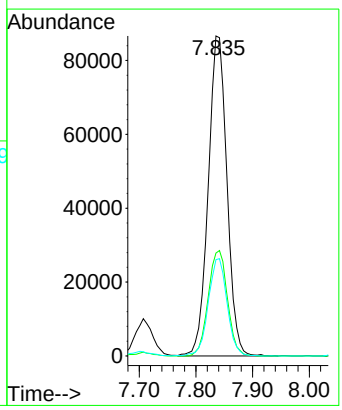


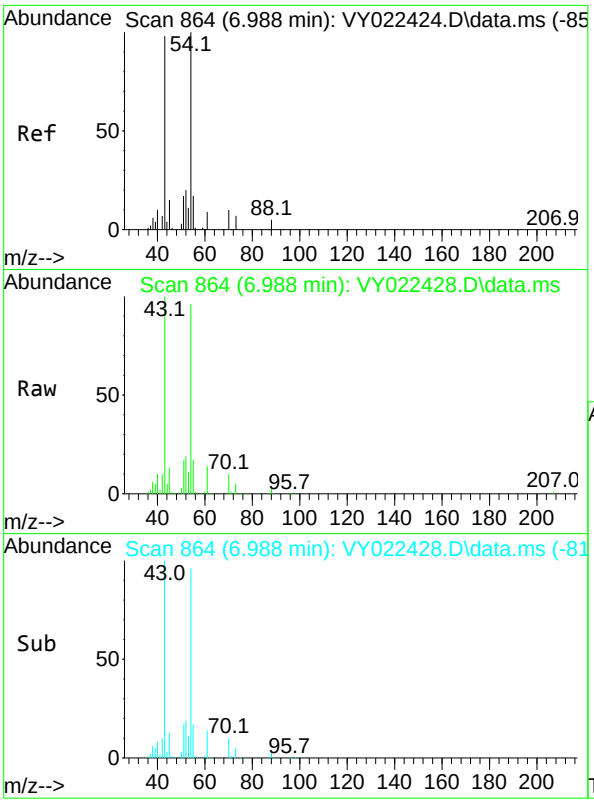


#36
1,1-Dichloropropene
Concen: 50.295 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. -0.006 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 75 Resp: 198705

Ion	Ratio	Lower	Upper
75	100		
110	33.8	17.1	51.2
77	30.6	25.1	37.7



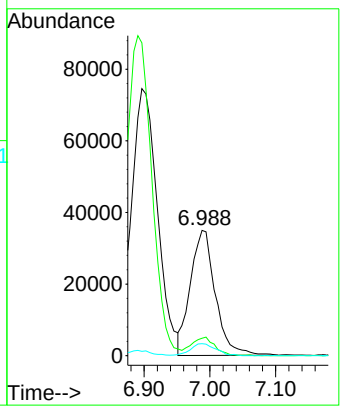


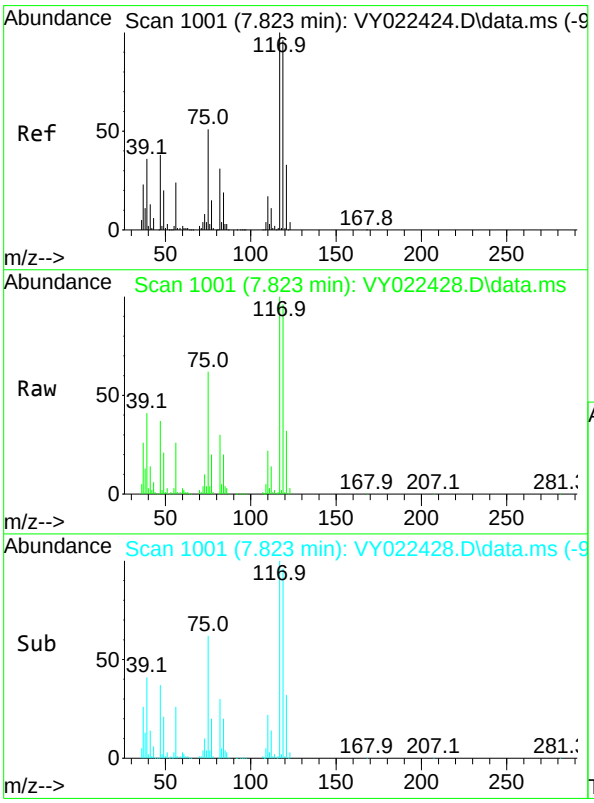
#37
Ethyl Acetate
Concen: 54.775 ug/l
RT: 6.988 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Tgt Ion: 43 Resp: 91969

Ion	Ratio	Lower	Upper
43	100		
61	13.2	11.7	17.5
70	9.8	7.8	11.6

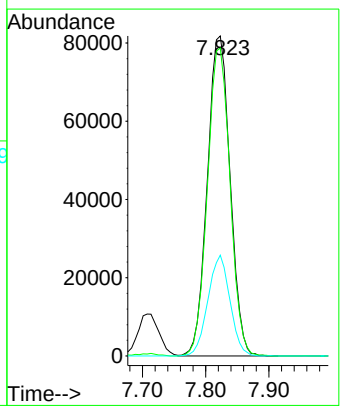


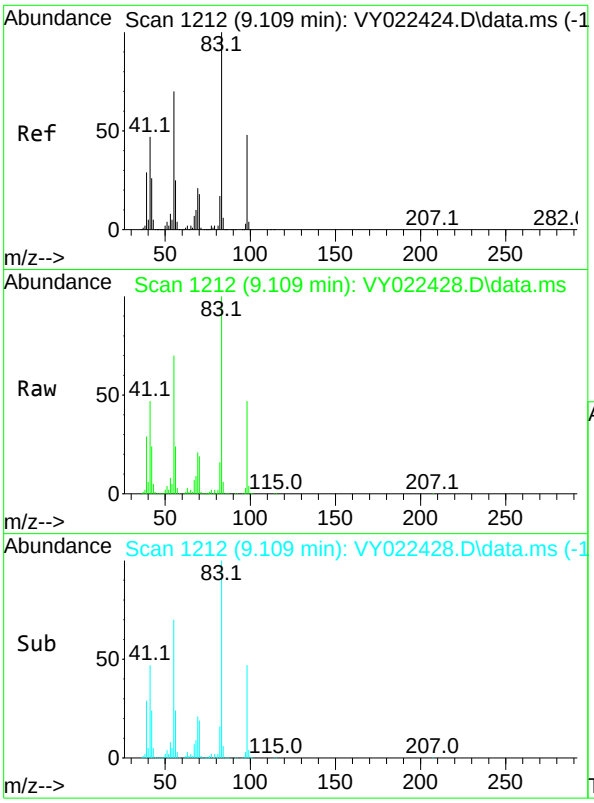


#38
Carbon Tetrachloride
Concen: 49.782 ug/l
RT: 7.823 min Scan# 1001
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion:117 Resp: 204881

Ion	Ratio	Lower	Upper
117	100		
119	96.2	76.3	114.5
121	31.5	26.1	39.1



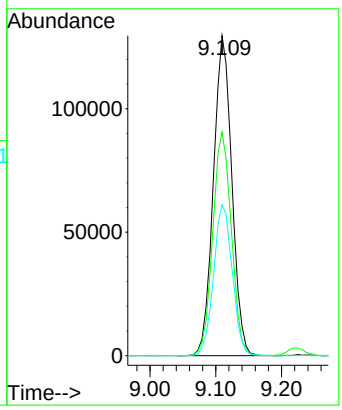


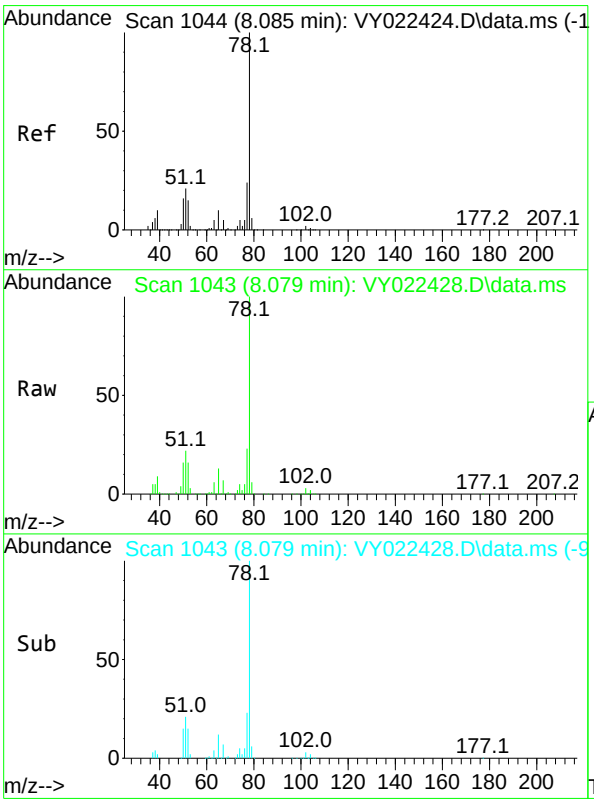
#39
Methylcyclohexane
Concen: 48.189 ug/l
RT: 9.109 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Tgt Ion: 83 Resp: 253073

Ion	Ratio	Lower	Upper
83	100		
55	69.7	56.2	84.2
98	47.1	38.4	57.6

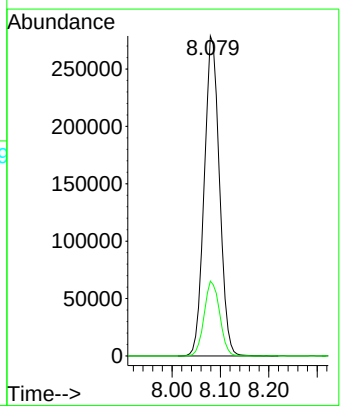


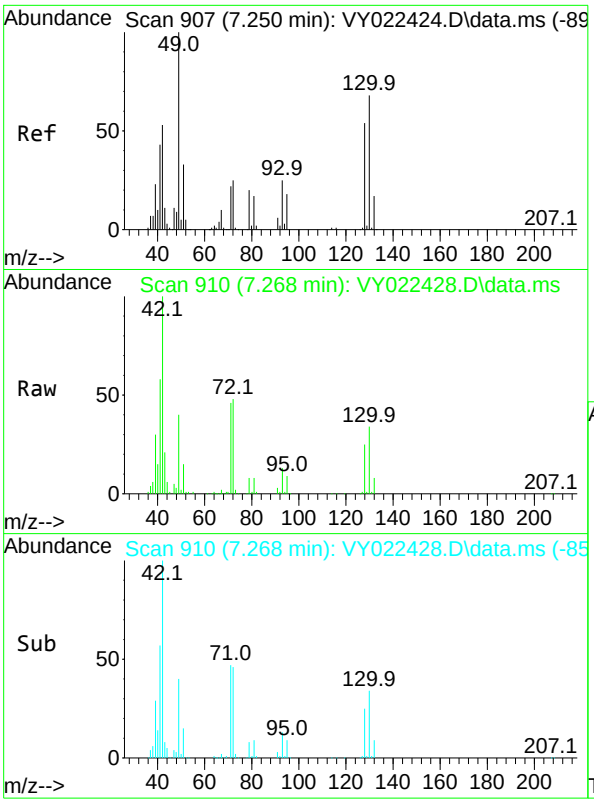


#40
Benzene
Concen: 51.876 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. -0.006 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 78 Resp: 609847

Ion	Ratio	Lower	Upper
78	100		
77	23.4	19.4	29.2



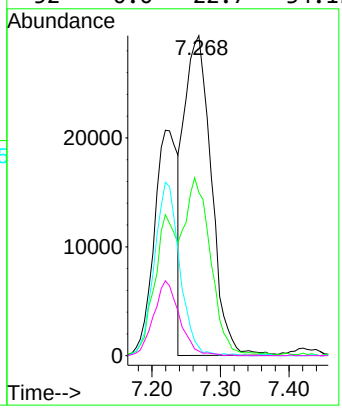


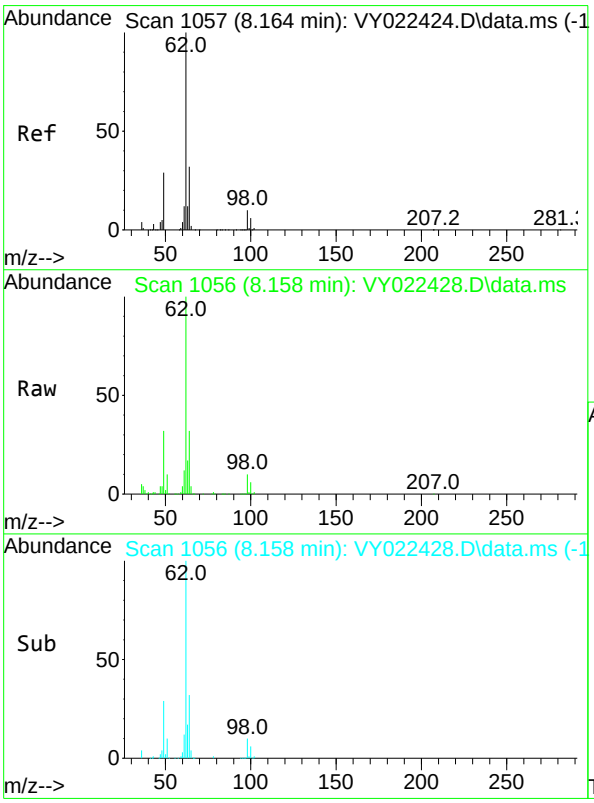
#41
Methacrylonitrile
Concen: 79.687 ug/l
RT: 7.268 min Scan# 91
Delta R.T. 0.018 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Tgt Ion: 41 Resp: 81207

Ion	Ratio	Lower	Upper
41	100		
39	48.3	40.4	60.6
67	0.0	53.0	79.4#
52	0.0	22.7	34.1#

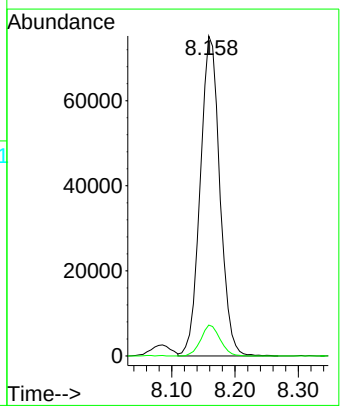


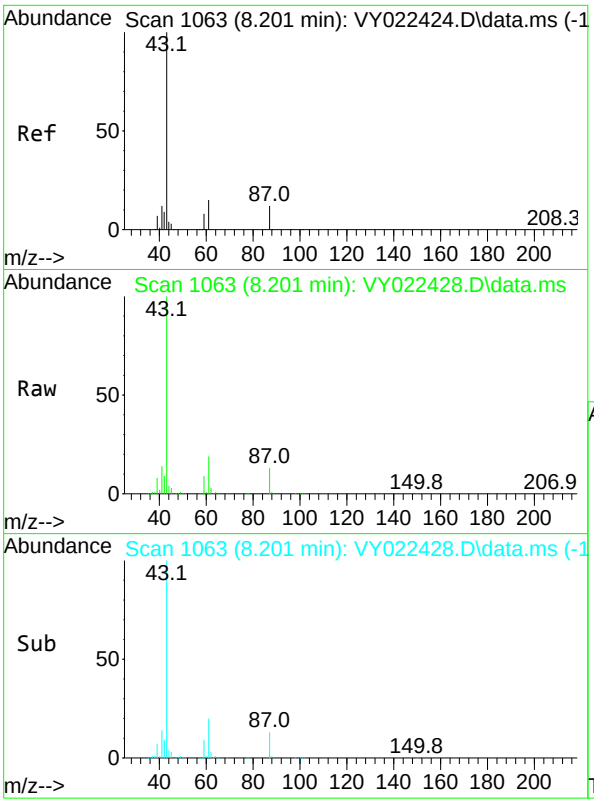


#42
1,2-Dichloroethane
Concen: 52.242 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. -0.006 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 62 Resp: 162203

Ion	Ratio	Lower	Upper
62	100		
98	9.5	0.0	18.4



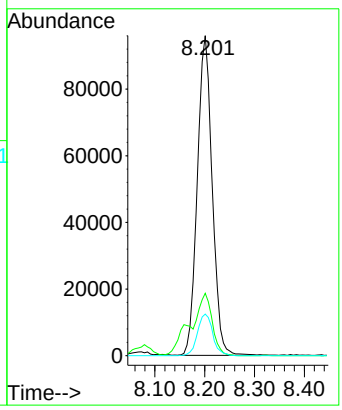


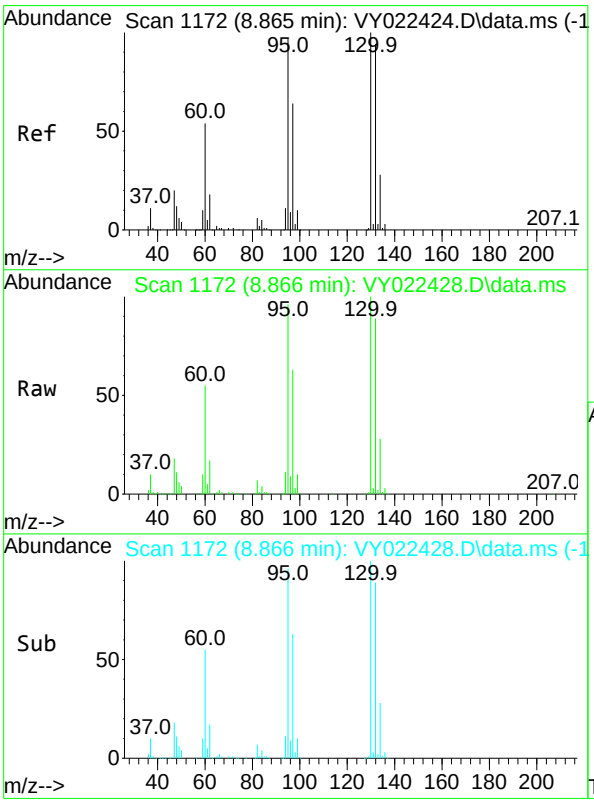
#43
Isopropyl Acetate
Concen: 54.305 ug/l
RT: 8.201 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Tgt Ion: 43 Resp: 199246

Ion	Ratio	Lower	Upper
43	100		
61	18.8	15.4	23.0
87	13.3	10.6	15.8

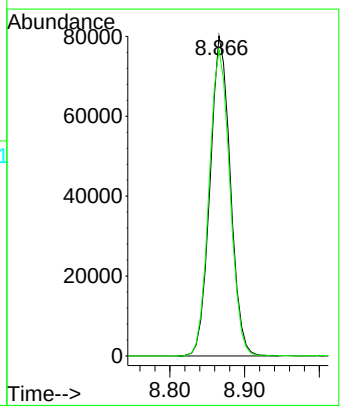


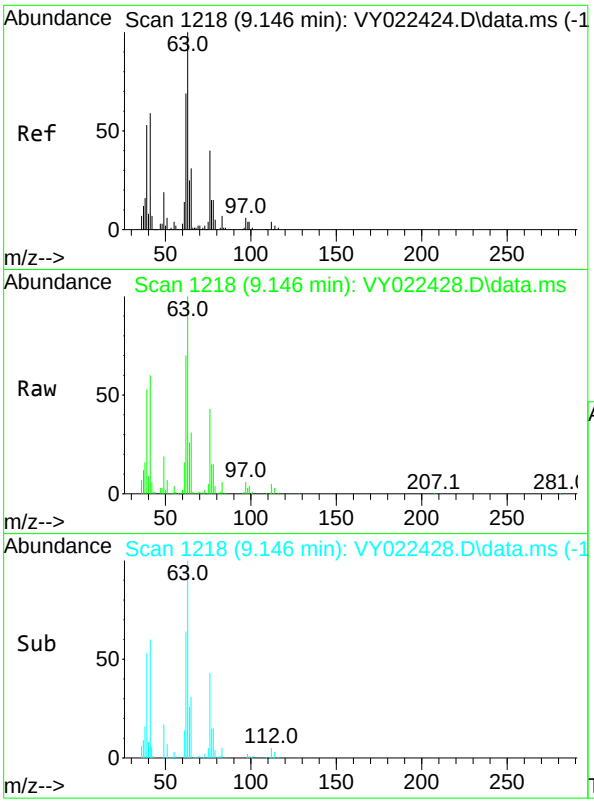


#44
Trichloroethene
Concen: 52.041 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion:130 Resp: 151238

Ion	Ratio	Lower	Upper
130	100		
95	95.7	0.0	194.8



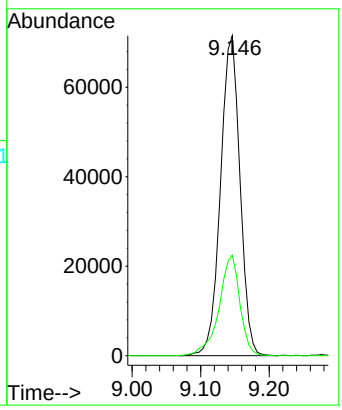


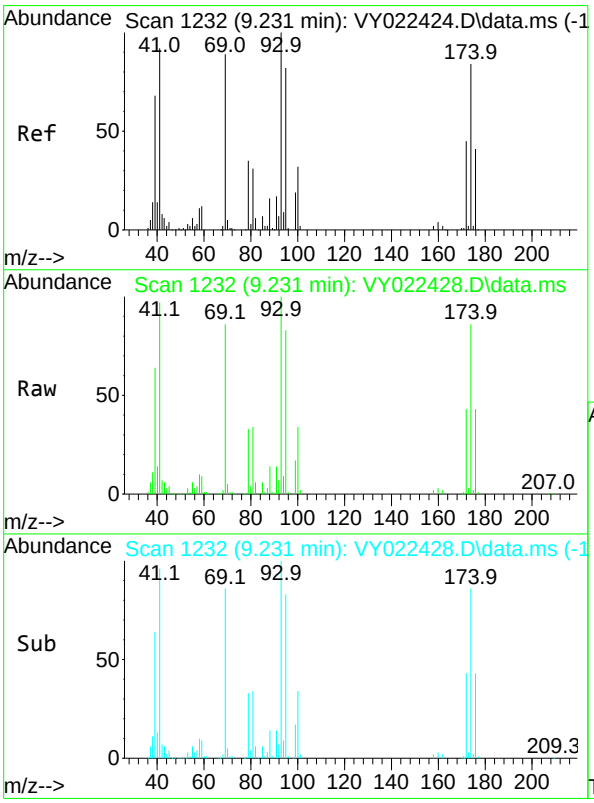
#45
1,2-Dichloropropane
Concen: 50.975 ug/l
RT: 9.146 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Tgt Ion: 63 Resp: 140797

Ion	Ratio	Lower	Upper
63	100		
65	31.4	25.1	37.7

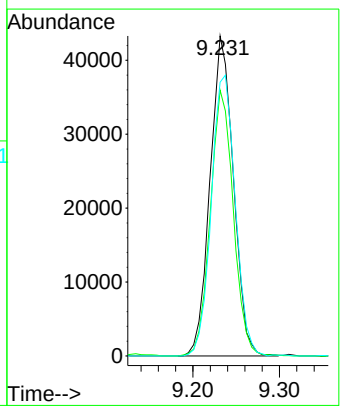


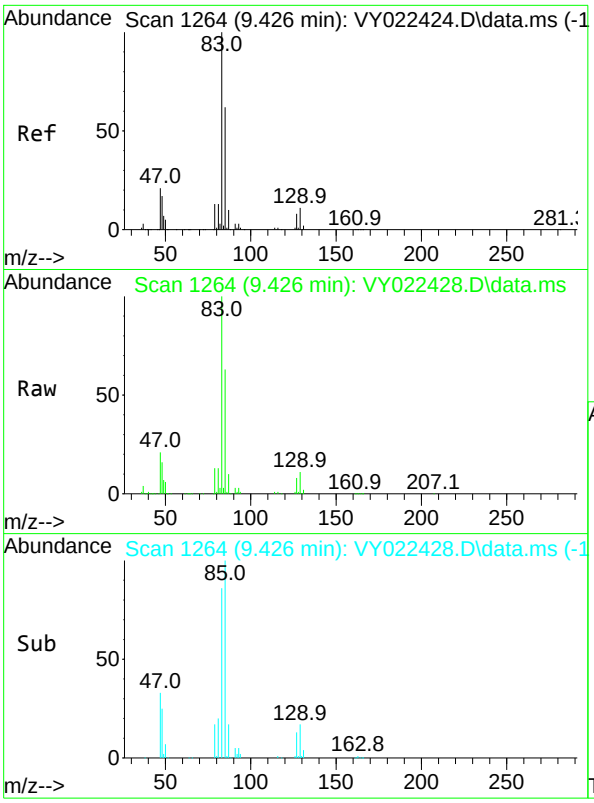


#46
Dibromomethane
Concen: 52.586 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 93 Resp: 81139

Ion	Ratio	Lower	Upper
93	100		
95	81.8	66.2	99.2
174	89.9	71.1	106.7



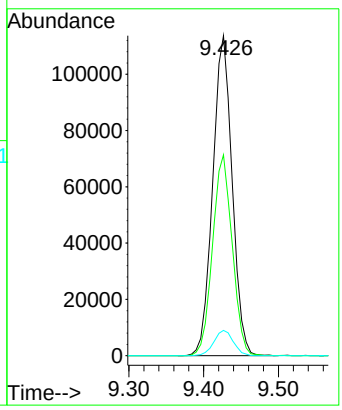


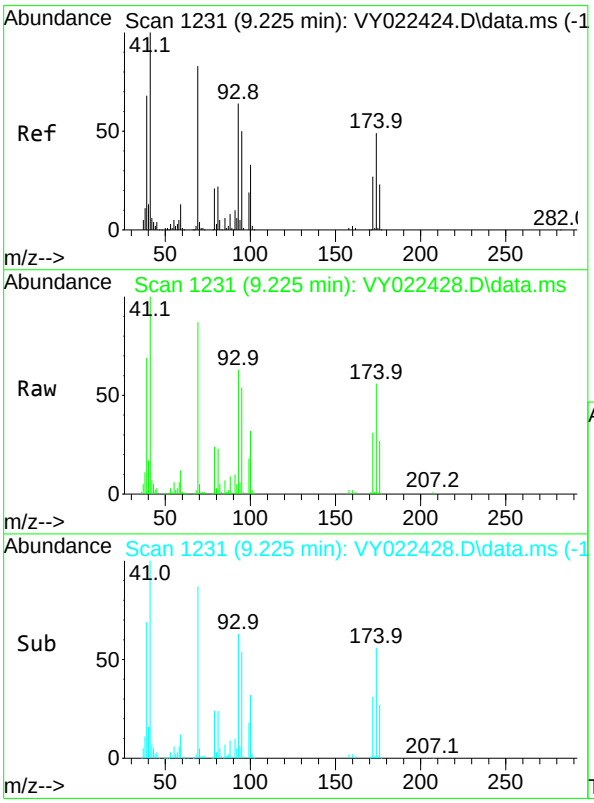
#47
Bromodichloromethane
Concen: 51.745 ug/l
RT: 9.426 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Tgt Ion: 83 Resp: 205314

Ion	Ratio	Lower	Upper
83	100		
85	62.8	49.8	74.6
127	7.9	6.6	9.8

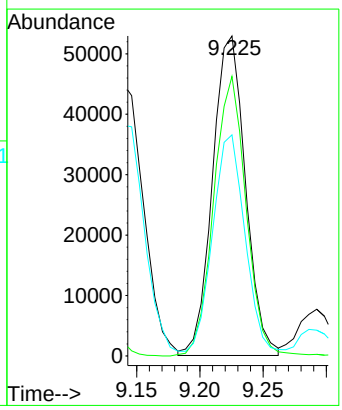


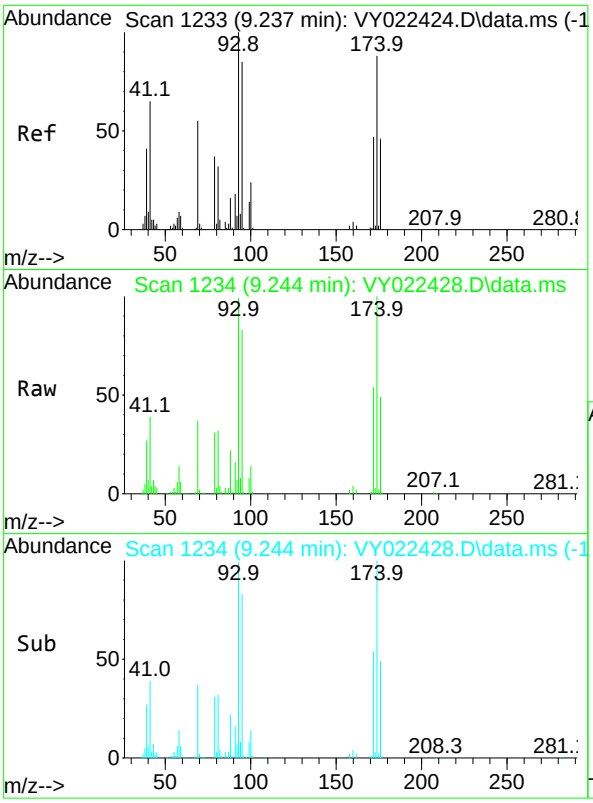


#48
Methyl methacrylate
Concen: 56.276 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 41 Resp: 95846

Ion	Ratio	Lower	Upper
41	100		
69	86.1	70.3	105.5
39	66.0	55.4	83.0



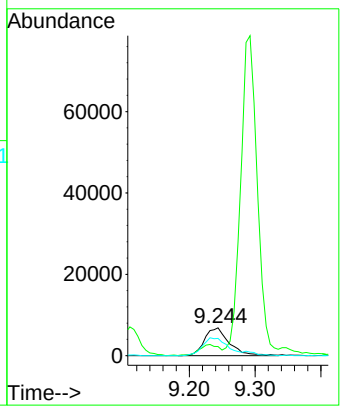


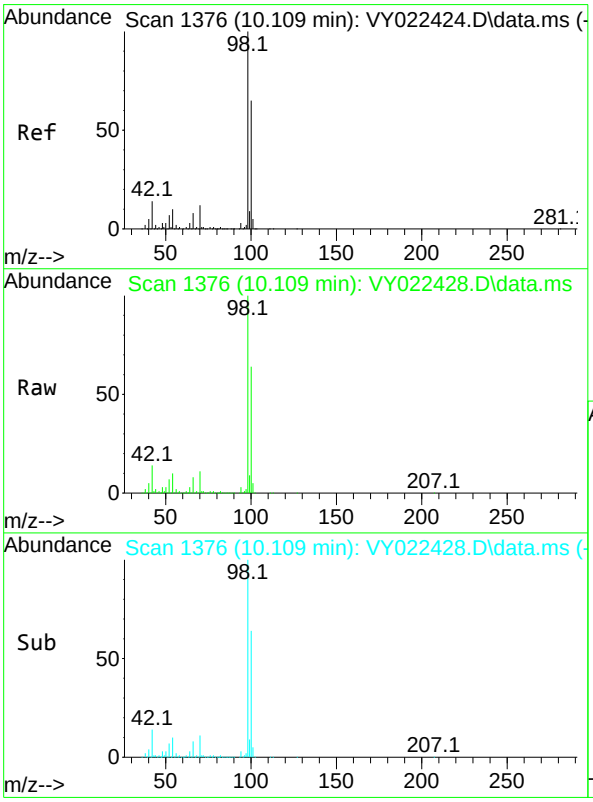
#49
1,4-Dioxane
Concen: 1051.366 ug/l
RT: 9.244 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Tgt Ion: 88 Resp: 17918

Ion	Ratio	Lower	Upper
88	100		
43	30.9	26.9	40.3
58	64.5	55.8	83.6

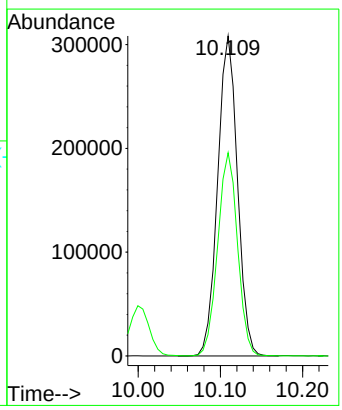


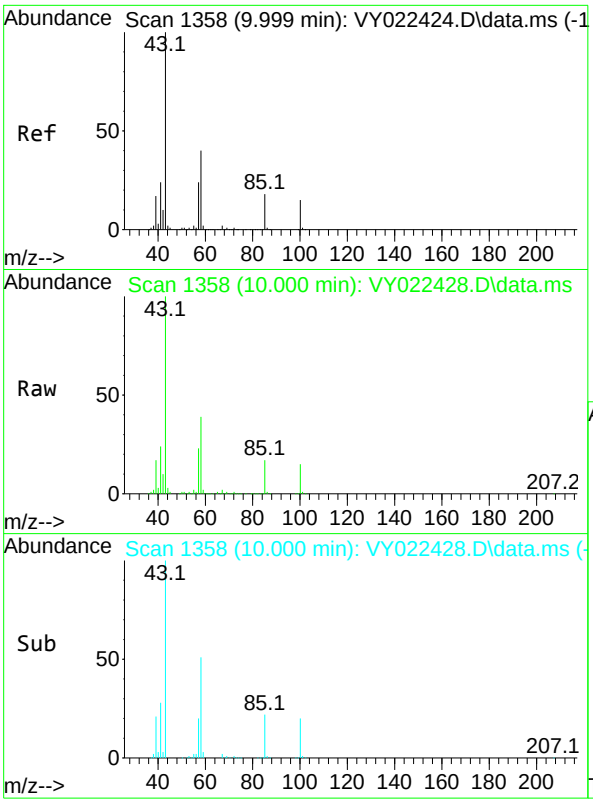


#50
Toluene-d8
Concen: 50.886 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 98 Resp: 516469

Ion	Ratio	Lower	Upper
98	100		
100	63.5	52.2	78.2



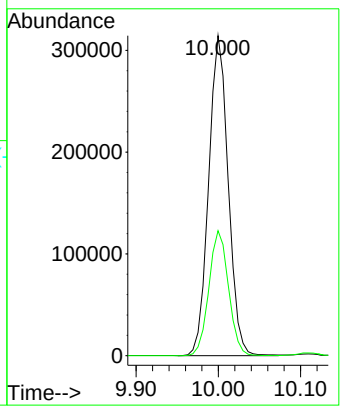


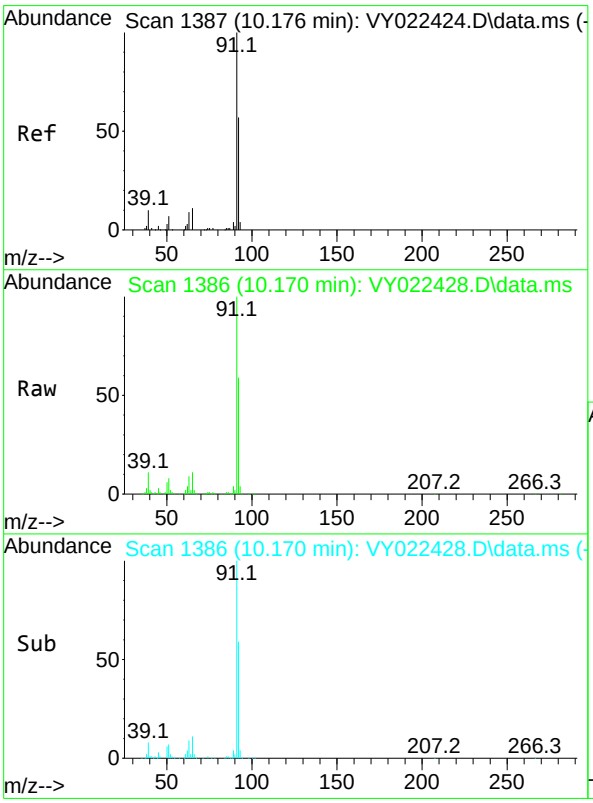
#51
4-Methyl-2-Pentanone
Concen: 287.032 ug/l
RT: 10.000 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Tgt Ion: 43 Resp: 519609

Ion	Ratio	Lower	Upper
43	100		
58	39.2	31.2	46.8

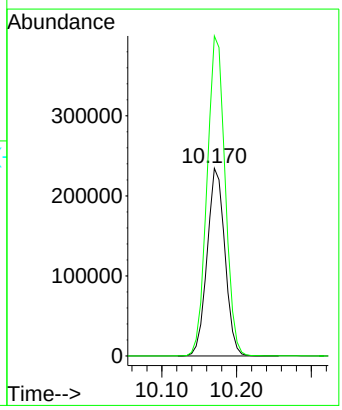


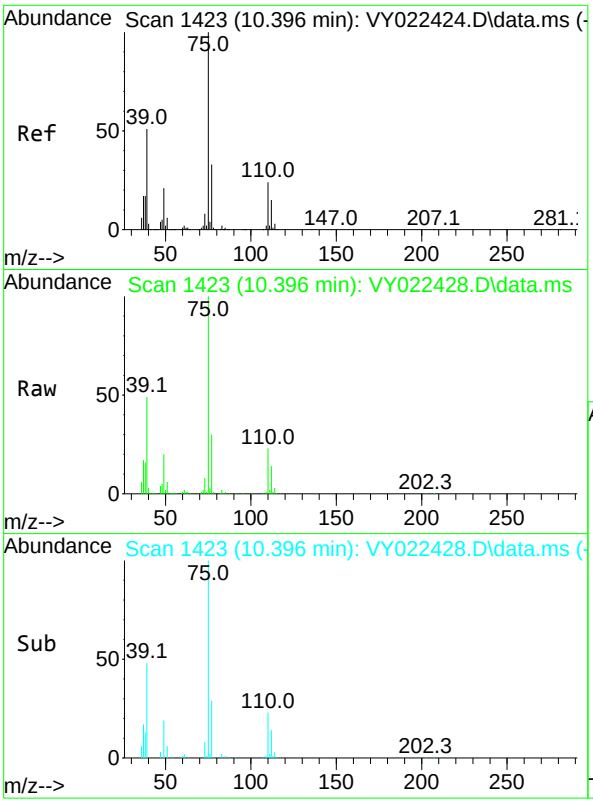


#52
Toluene
Concen: 52.832 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.006 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 92 Resp: 387936

Ion	Ratio	Lower	Upper
92	100		
91	173.4	139.8	209.6



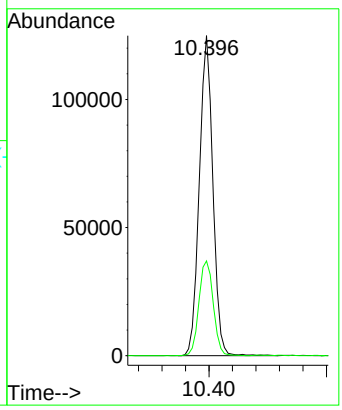


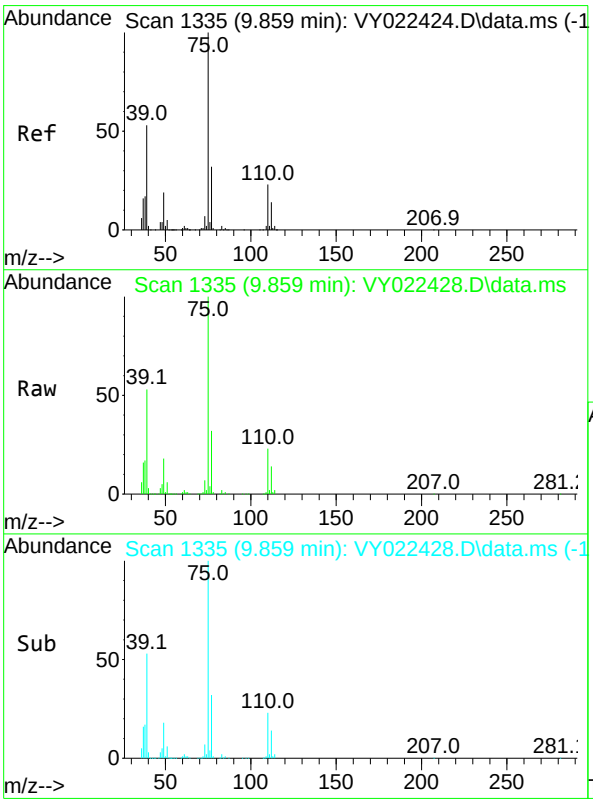
#53
t-1,3-Dichloropropene
Concen: 54.094 ug/l
RT: 10.396 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Tgt Ion: 75 Resp: 199925

Ion	Ratio	Lower	Upper
75	100		
77	29.5	26.2	39.2

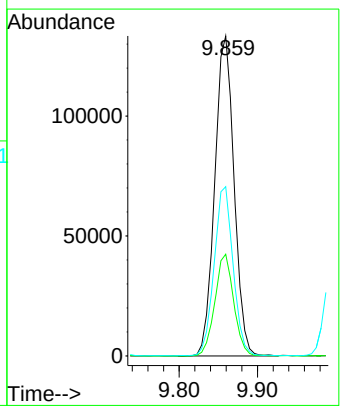


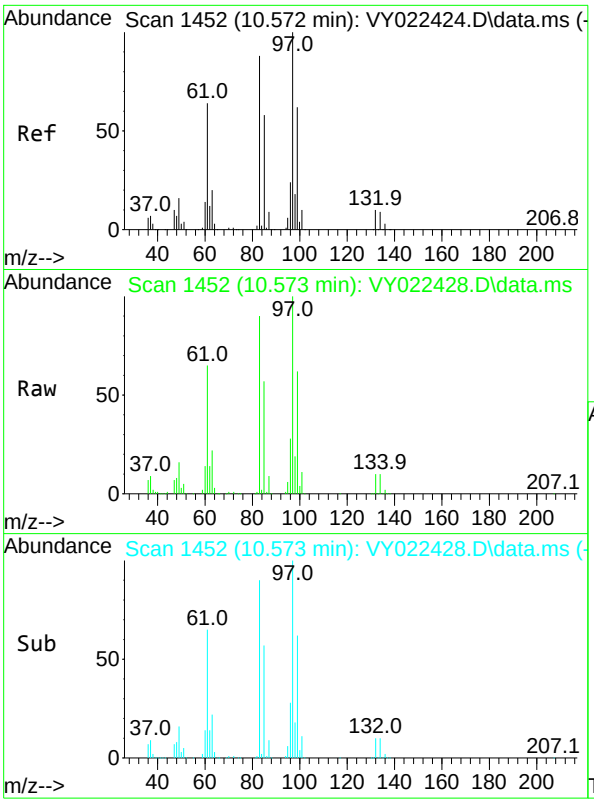


#54
cis-1,3-Dichloropropene
Concen: 52.618 ug/l
RT: 9.859 min Scan# 1335
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 75 Resp: 228509

Ion	Ratio	Lower	Upper
75	100		
77	31.8	25.4	38.2
39	52.8	42.5	63.7



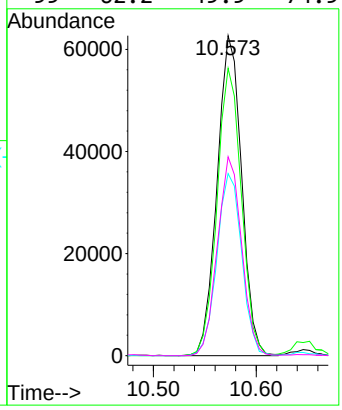


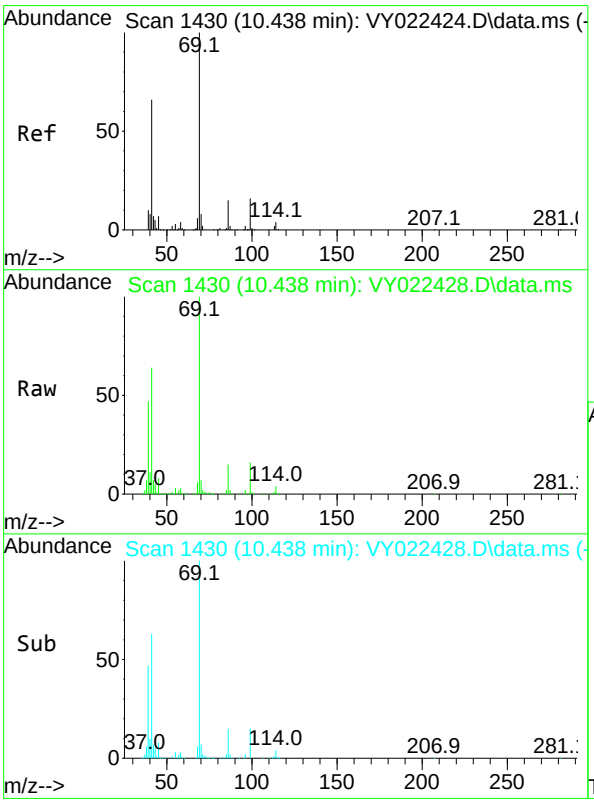
#55
1,1,2-Trichloroethane
Concen: 53.168 ug/l
RT: 10.573 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Tgt Ion: 97 Resp: 103722

Ion	Ratio	Lower	Upper
97	100		
83	89.8	70.2	105.4
85	56.9	46.1	69.1
99	62.2	49.9	74.9

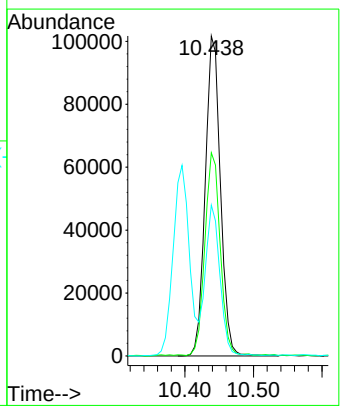


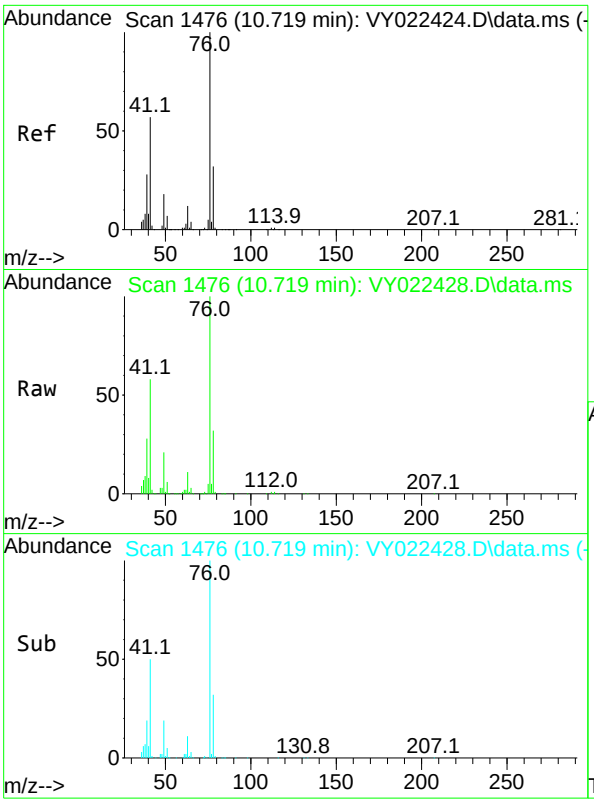


#56
Ethyl methacrylate
Concen: 55.994 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 69 Resp: 156757

Ion	Ratio	Lower	Upper
69	100		
41	64.1	51.2	76.8
39	44.3	35.2	52.8



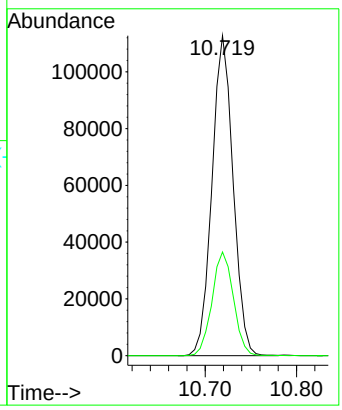


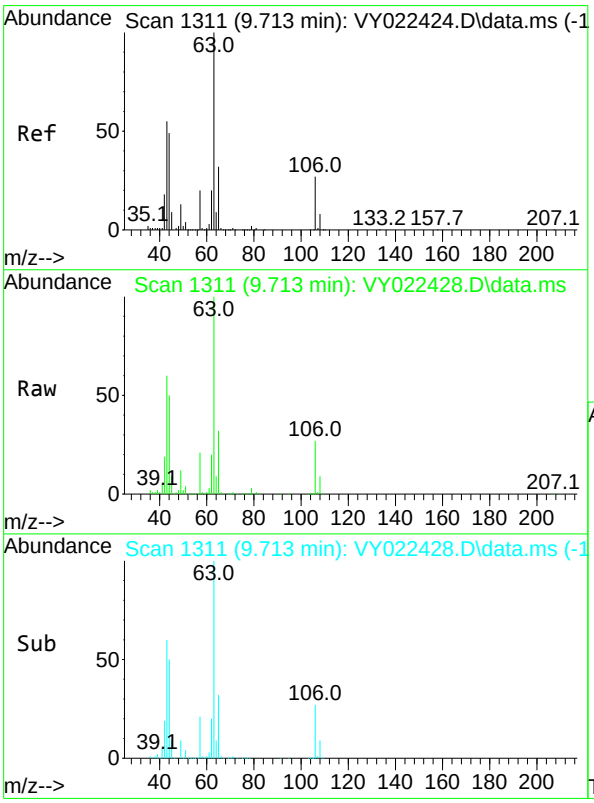
#57
1,3-Dichloropropane
Concen: 52.634 ug/l
RT: 10.719 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Tgt Ion: 76 Resp: 180948

Ion	Ratio	Lower	Upper
76	100		
78	32.8	25.8	38.8

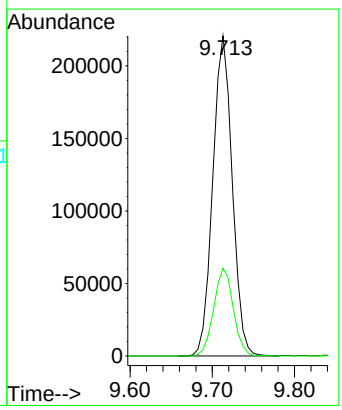


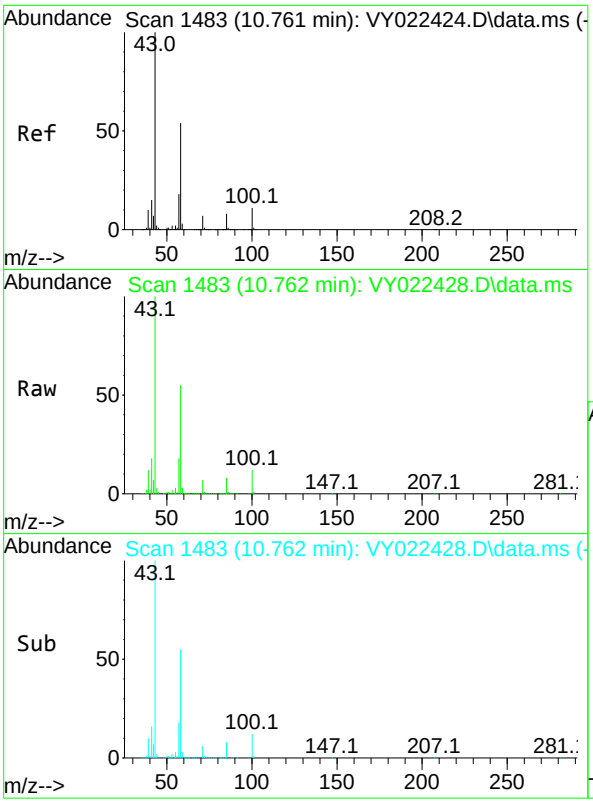


#58
2-Chloroethyl Vinyl ether
Concen: 259.493 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 63 Resp: 362054

Ion	Ratio	Lower	Upper
63	100		
106	27.5	22.2	33.2



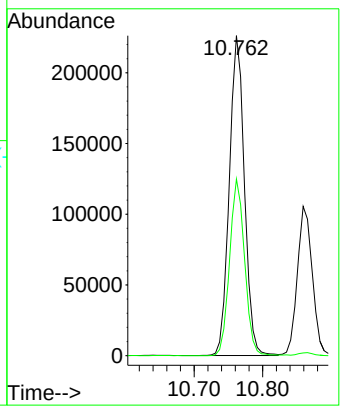


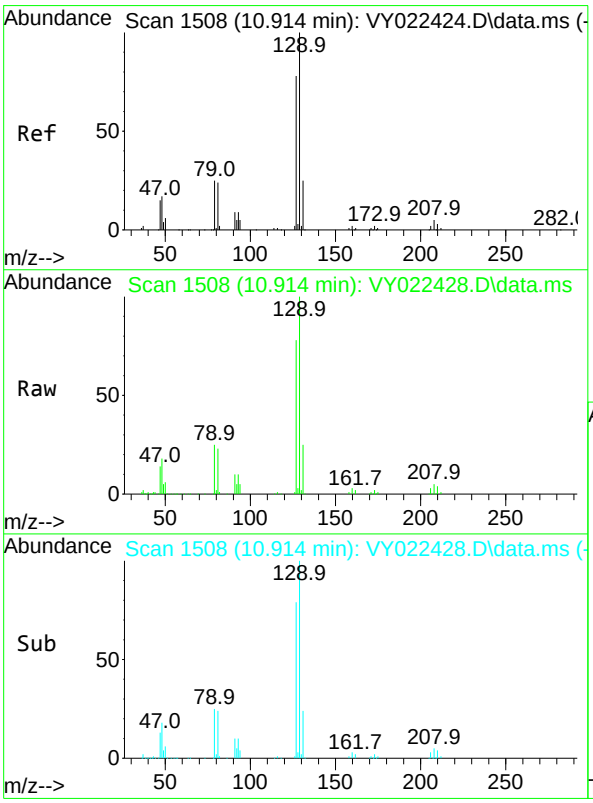
#59
2-Hexanone
Concen: 292.964 ug/l
RT: 10.762 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Tgt Ion: 43 Resp: 347563

Ion	Ratio	Lower	Upper
43	100		
58	54.8	27.1	81.2

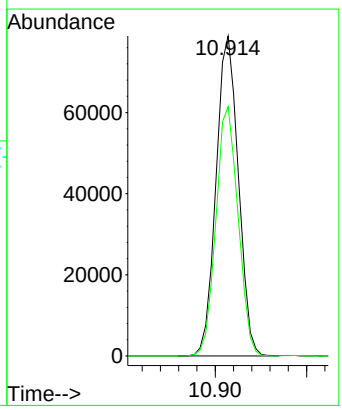


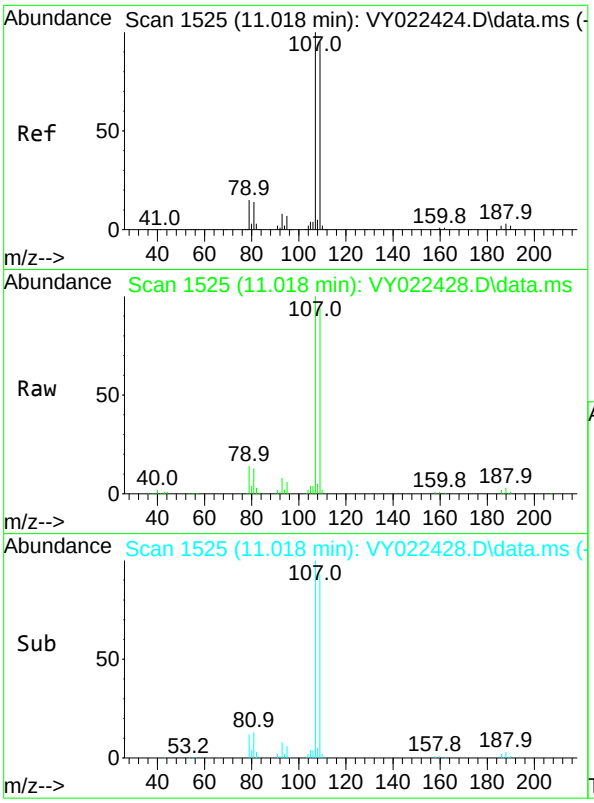


#60
Dibromochloromethane
Concen: 53.666 ug/l
RT: 10.914 min Scan# 1508
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion:129 Resp: 133735

Ion	Ratio	Lower	Upper
129	100		
127	77.5	38.3	114.8



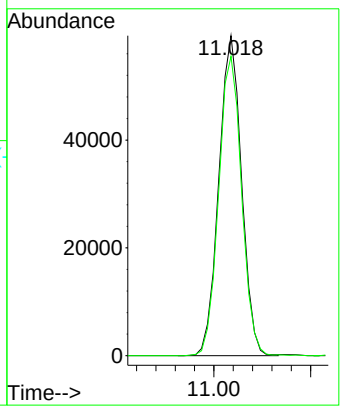


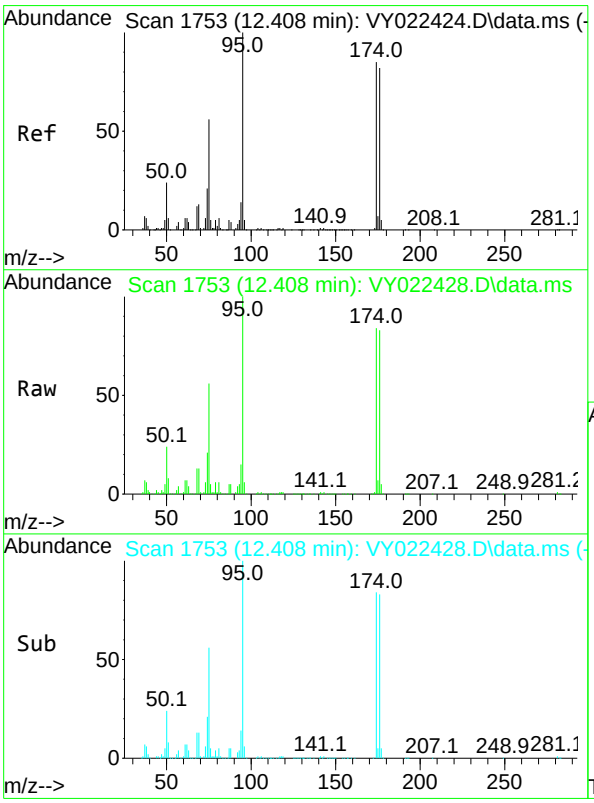
#61
1,2-Dibromoethane
Concen: 54.130 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Tgt Ion:107 Resp: 96584

Ion	Ratio	Lower	Upper
107	100		
109	94.3	74.0	111.0

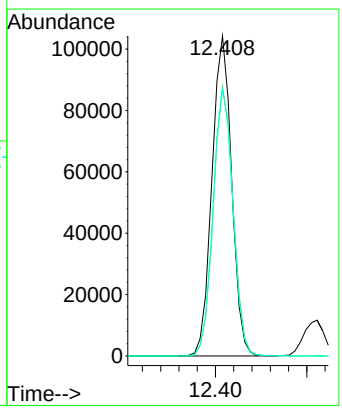


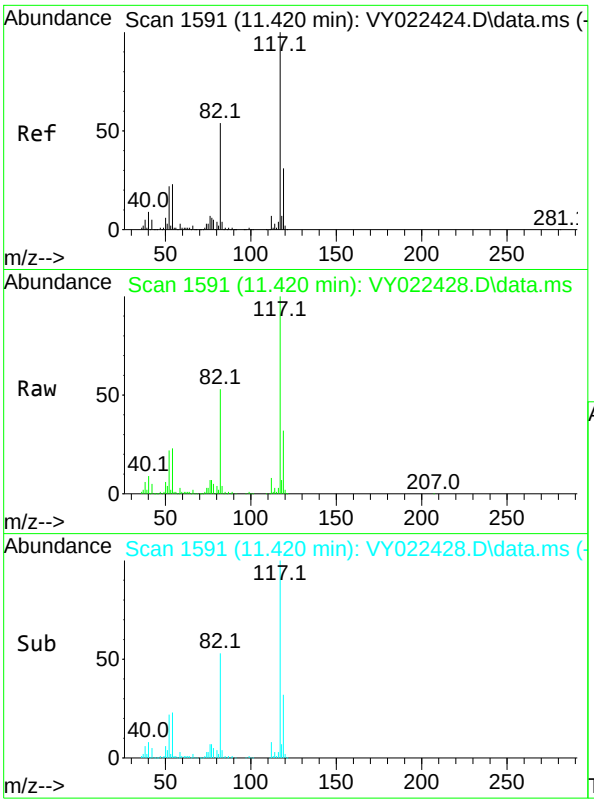


#62
4-Bromofluorobenzene
Concen: 50.731 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 95 Resp: 155747

Ion	Ratio	Lower	Upper
95	100		
174	85.0	0.0	171.6
176	84.3	0.0	164.6



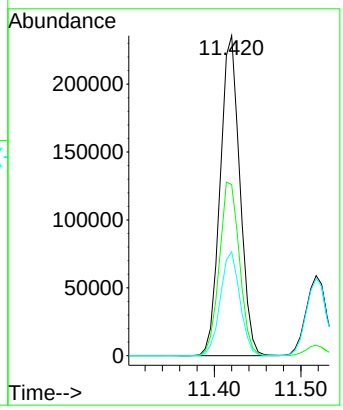


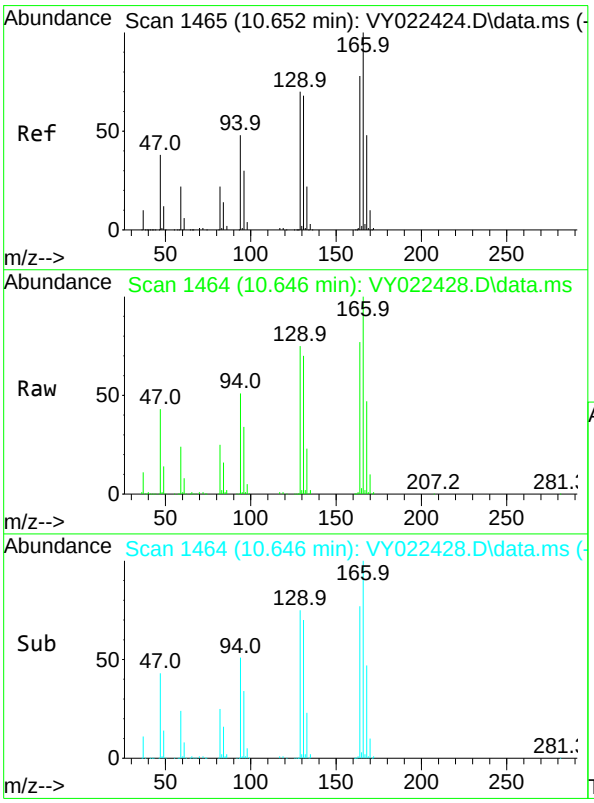
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Tgt Ion:117 Resp: 371169

Ion	Ratio	Lower	Upper
117	100		
82	53.5	43.3	64.9
119	32.5	24.5	36.7

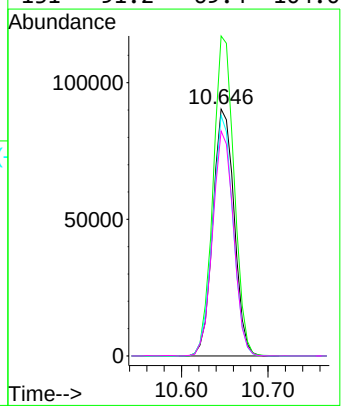


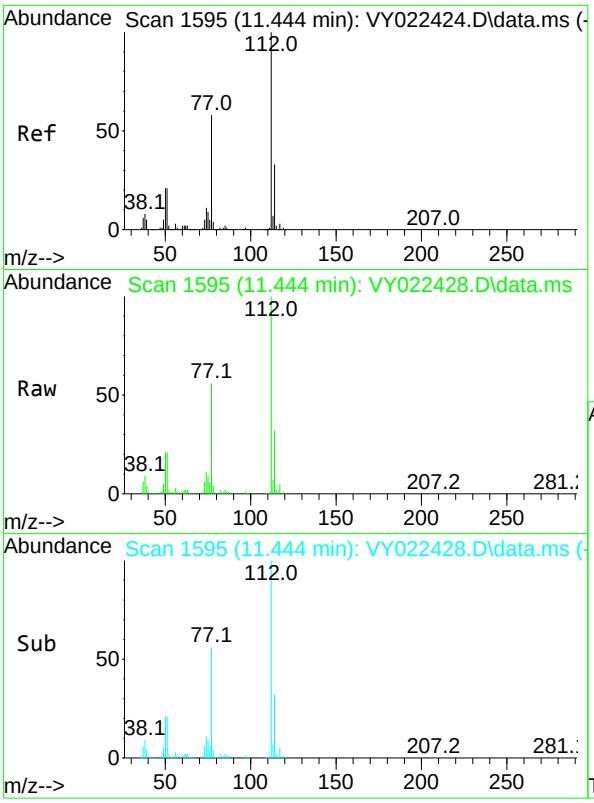


#64
Tetrachloroethene
Concen: 48.564 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. -0.006 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion:164 Resp: 153515

Ion	Ratio	Lower	Upper
164	100		
166	129.7	102.0	153.0
129	97.4	71.3	106.9
131	91.2	69.4	104.0



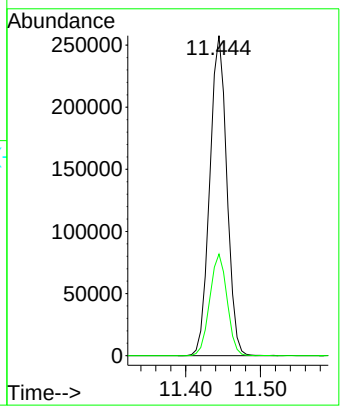


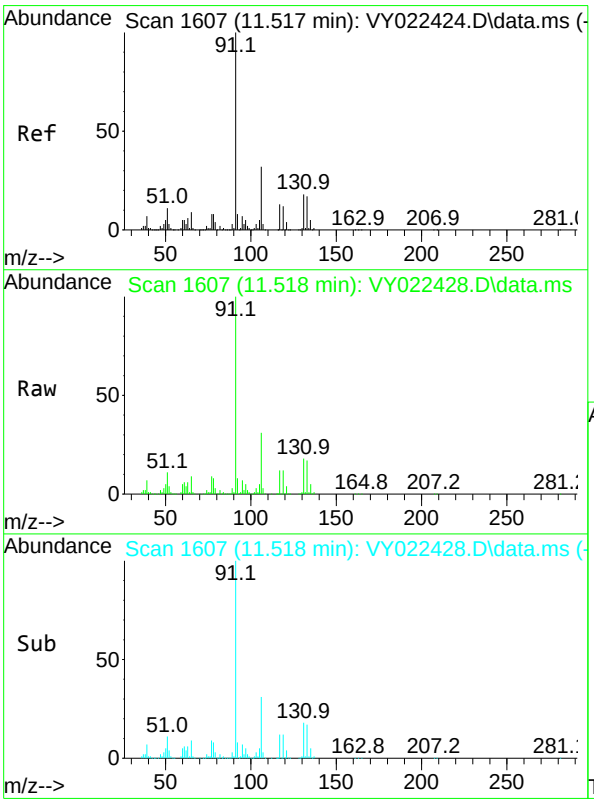
#65
Chlorobenzene
Concen: 51.703 ug/l
RT: 11.444 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Tgt Ion:112 Resp: 409198

Ion	Ratio	Lower	Upper
112	100		
114	31.7	26.1	39.1

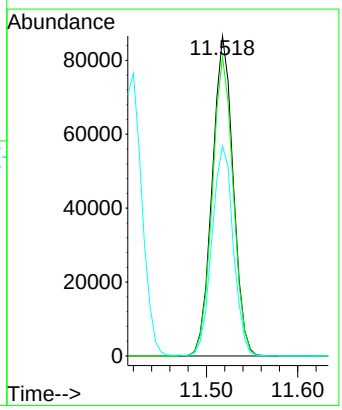


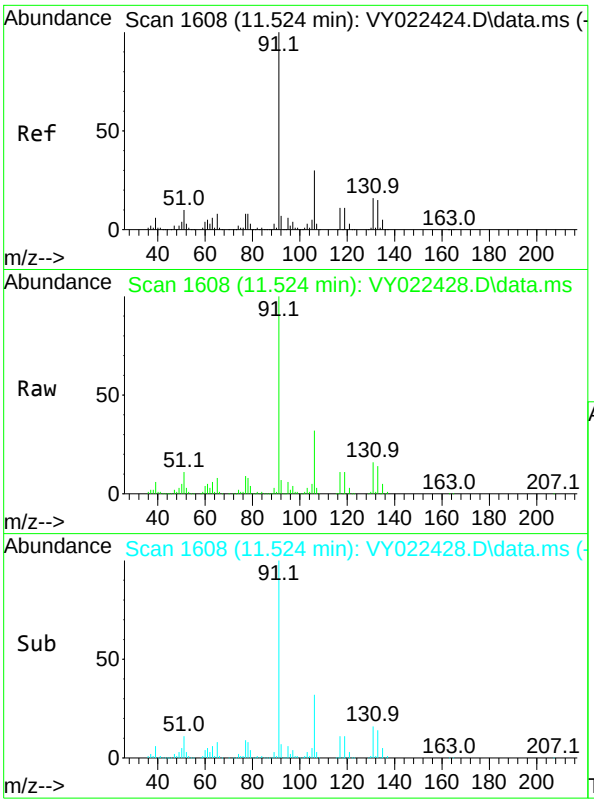


#66
1,1,1,2-Tetrachloroethane
Concen: 51.219 ug/l
RT: 11.518 min Scan# 1607
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion:131 Resp: 137345

Ion	Ratio	Lower	Upper
131	100		
133	93.5	46.6	139.8
119	67.0	33.3	99.8



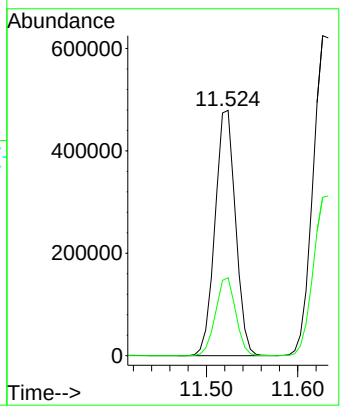


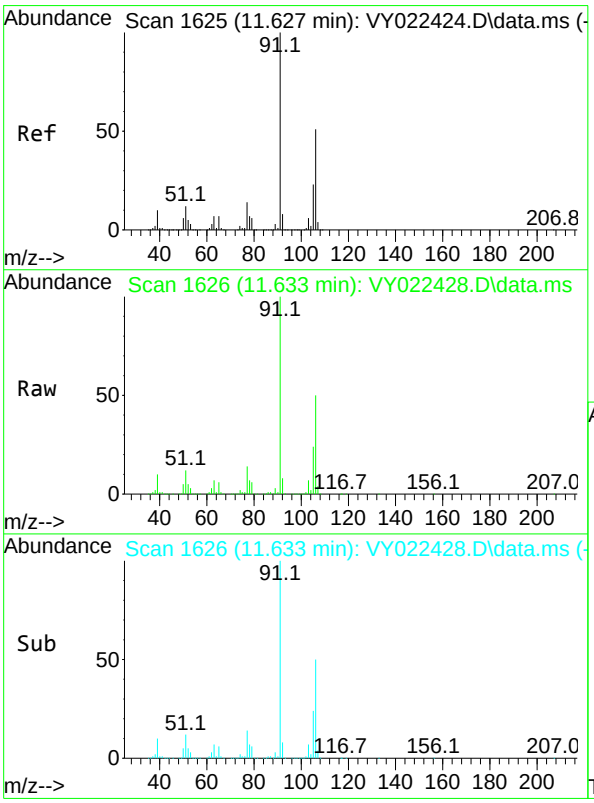
#67
Ethyl Benzene
Concen: 50.971 ug/l
RT: 11.524 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Tgt Ion: 91 Resp: 749047

Ion	Ratio	Lower	Upper
91	100		
106	31.7	24.4	36.6

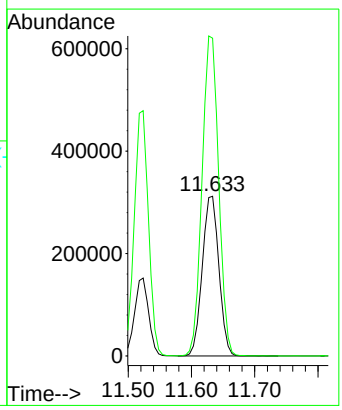


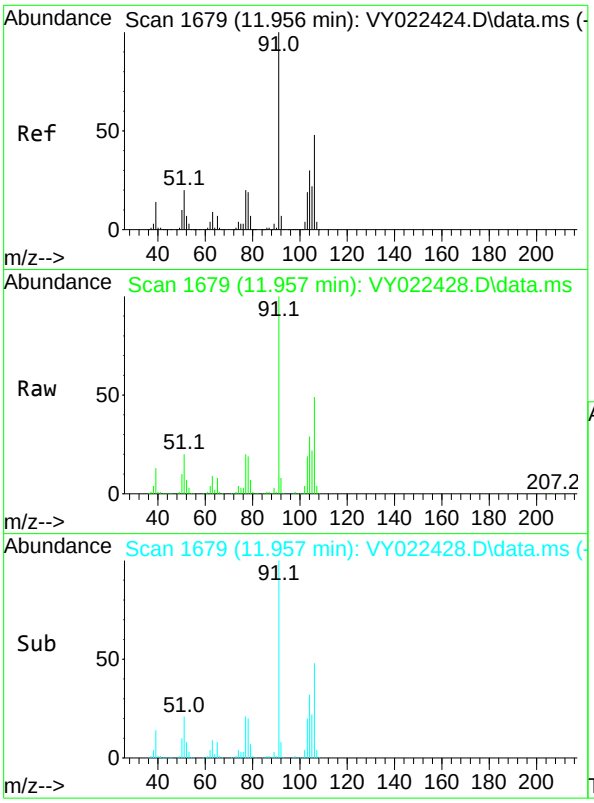


#68
m/p-Xylenes
Concen: 102.513 ug/l
RT: 11.633 min Scan# 1626
Delta R.T. 0.006 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion:106 Resp: 571164

Ion	Ratio	Lower	Upper
106	100		
91	199.8	159.8	239.8



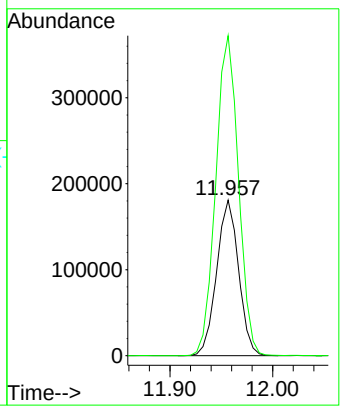


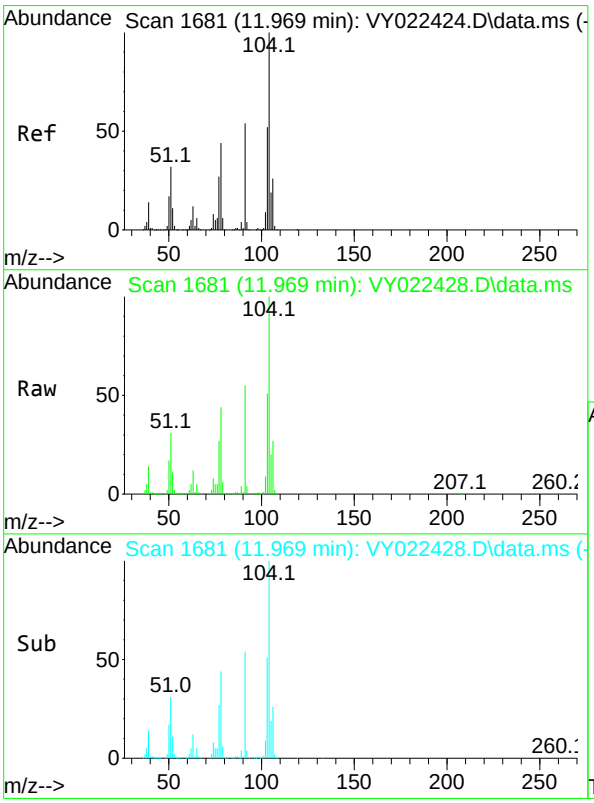
#69
o-Xylene
Concen: 51.205 ug/l
RT: 11.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Tgt Ion:106 Resp: 268131

Ion	Ratio	Lower	Upper
106	100		
91	212.5	106.3	318.9

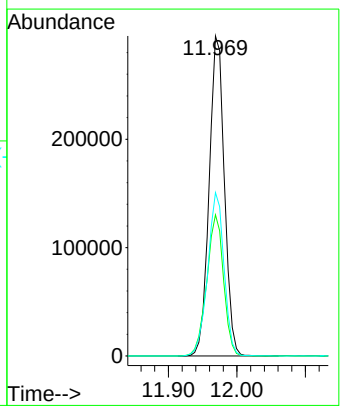


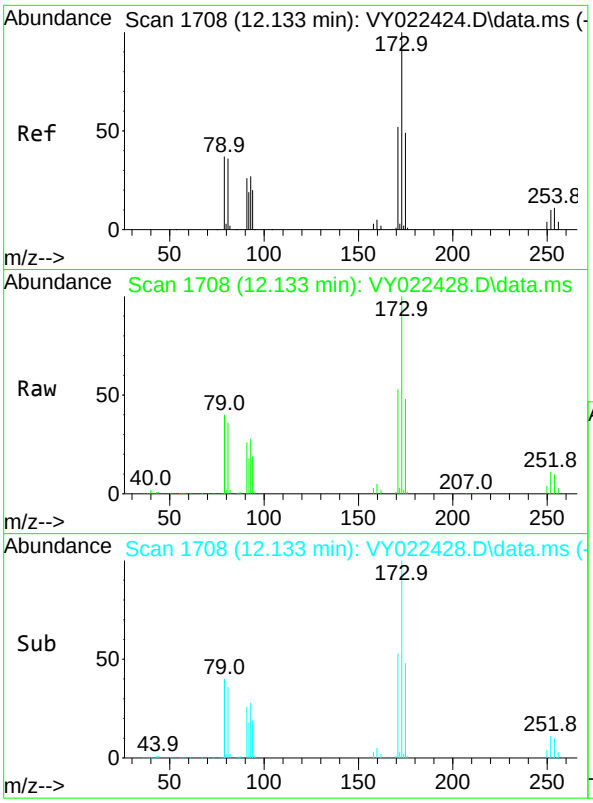


#70
Styrene
Concen: 52.397 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion:104 Resp: 456865

Ion	Ratio	Lower	Upper
104	100		
78	48.6	38.8	58.2
103	54.6	43.4	65.2



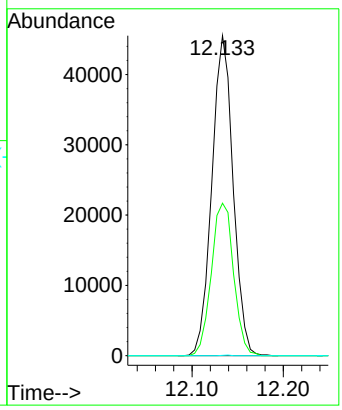


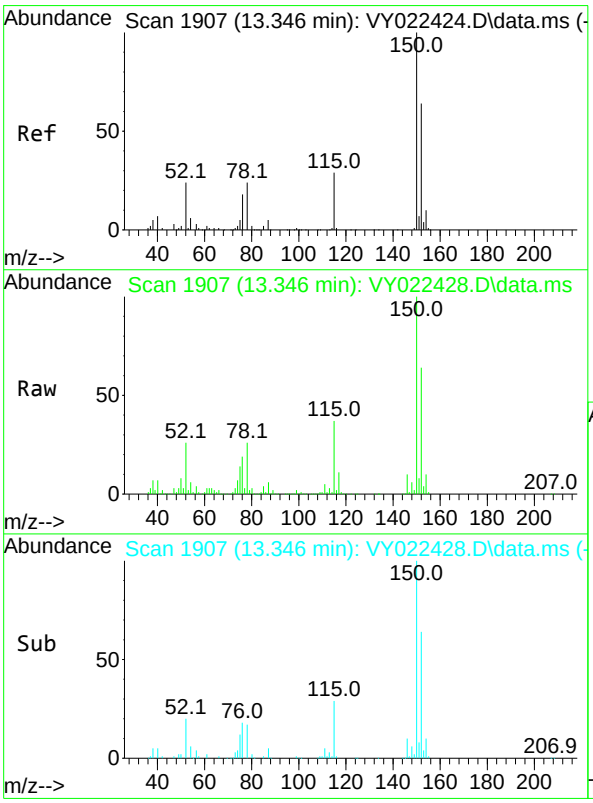
#71
Bromoform
Concen: 52.420 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Tgt Ion:173 Resp: 73628

Ion	Ratio	Lower	Upper
173	100		
175	50.0	24.3	73.0
254	0.1	0.1	0.1#

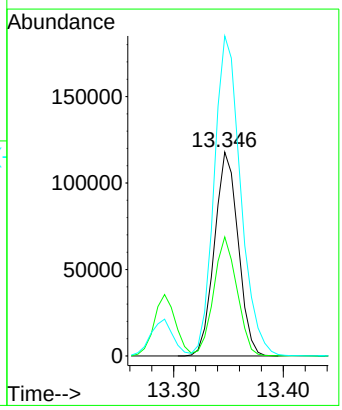


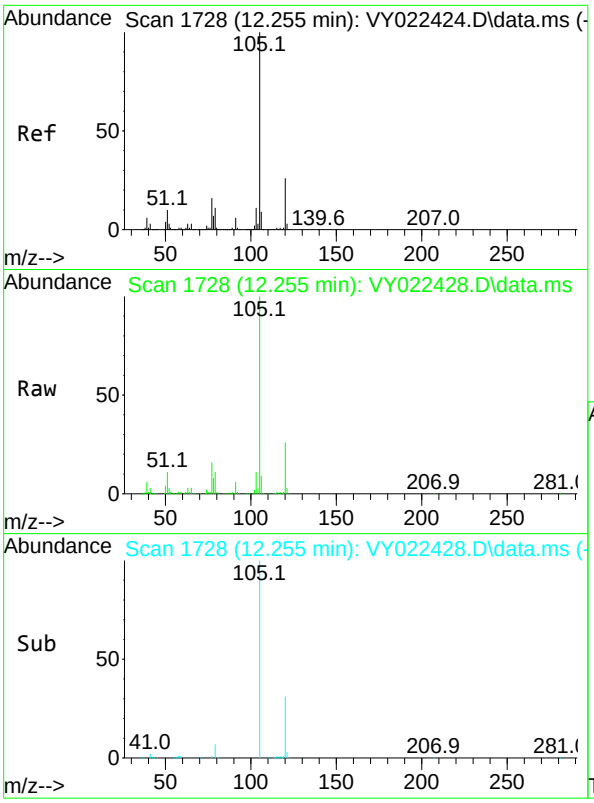


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion:152 Resp: 177242

Ion	Ratio	Lower	Upper
152	100		
115	57.4	28.4	85.3
150	175.4	0.0	345.8



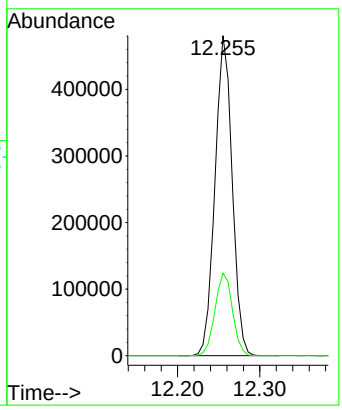


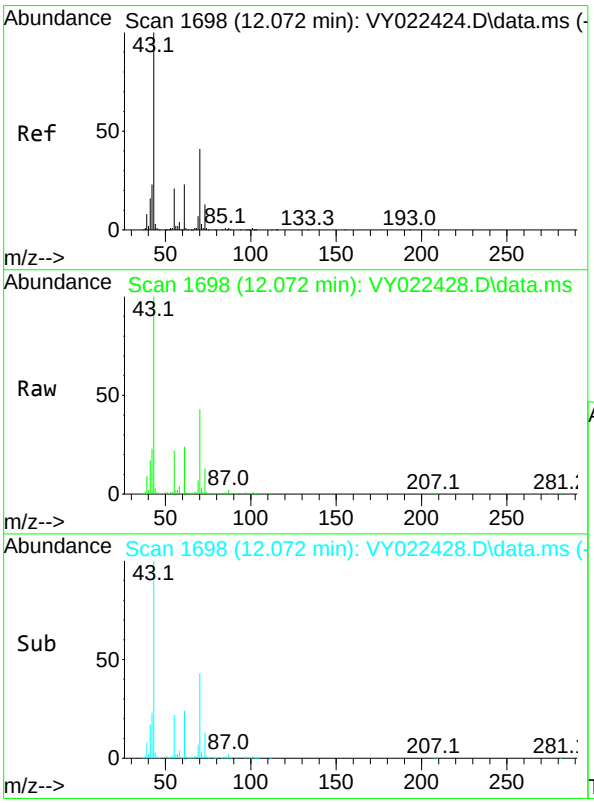
#73
Isopropylbenzene
Concen: 50.060 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Tgt Ion:105 Resp: 698311

Ion	Ratio	Lower	Upper
105	100		
120	26.3	13.2	39.5

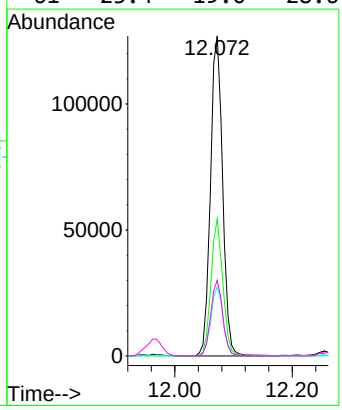


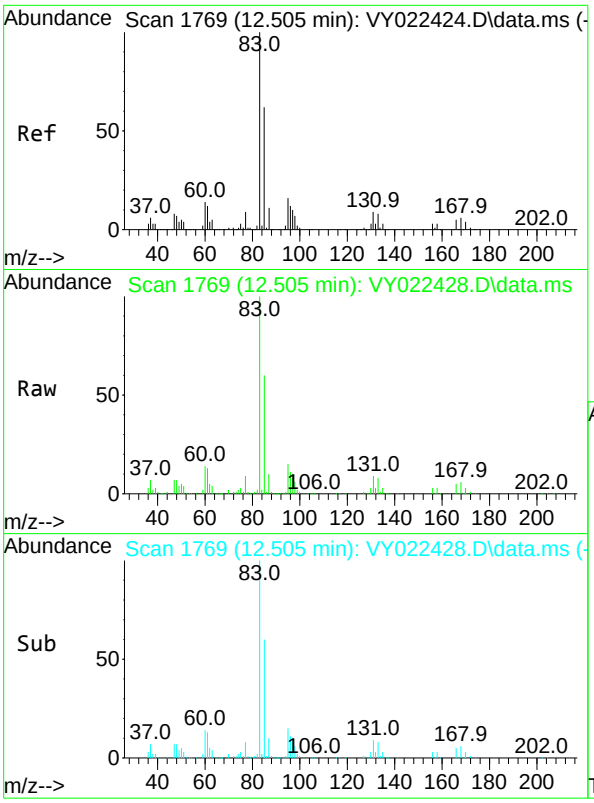


#74
N-amyl acetate
Concen: 53.559 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 43 Resp: 182818

Ion	Ratio	Lower	Upper
43	100		
70	41.6	33.0	49.4
55	21.9	17.5	26.3
61	23.4	19.0	28.6



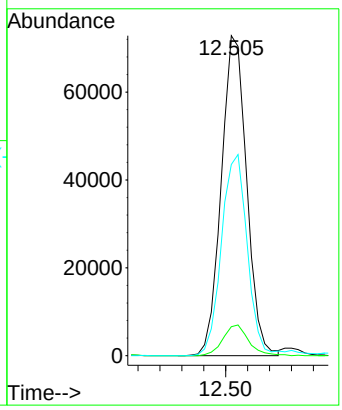


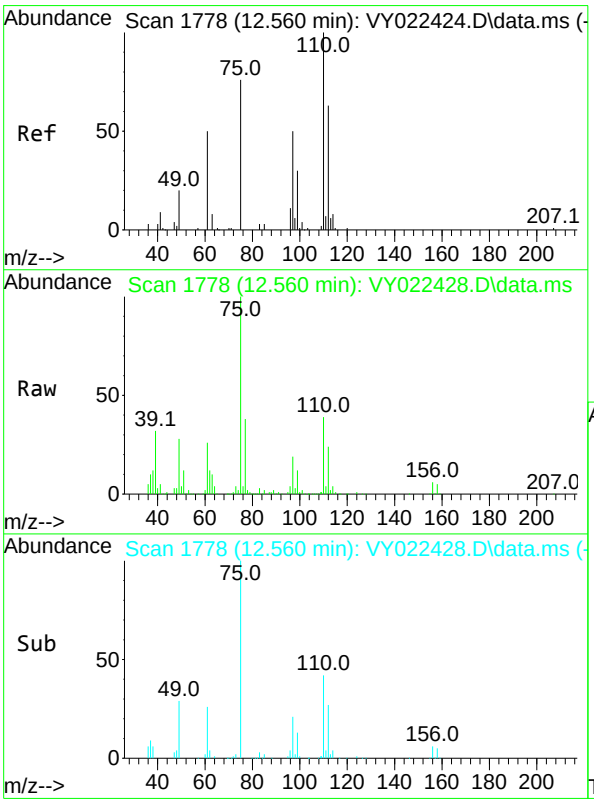
#75
1,1,2,2-Tetrachloroethane
Concen: 53.303 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Tgt Ion: 83 Resp: 117150

Ion	Ratio	Lower	Upper
83	100		
131	9.8	4.8	14.4
85	65.0	32.0	96.2

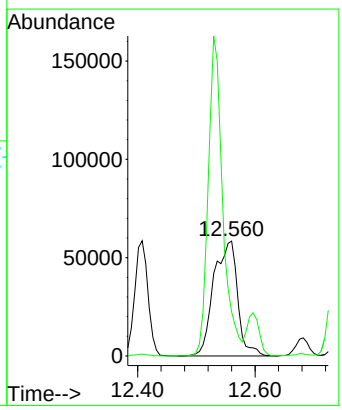


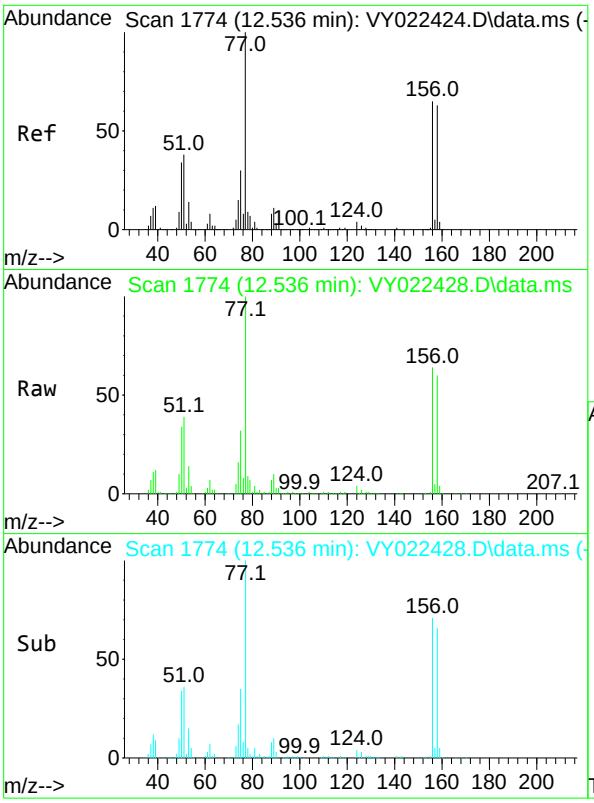


#76
1,2,3-Trichloropropane
Concen: 92.866 ug/l
RT: 12.560 min Scan# 1778
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 75 Resp: 164872

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0



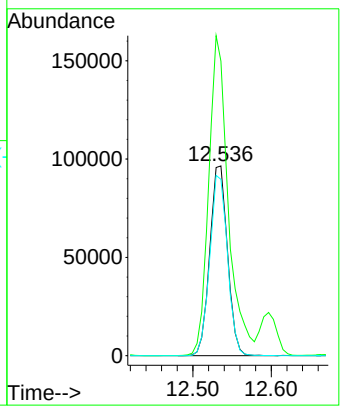


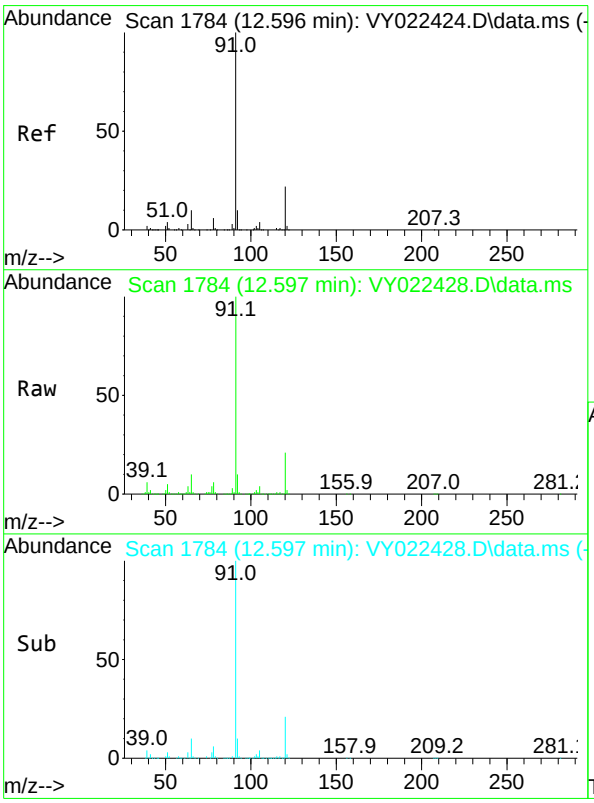
#77
Bromobenzene
Concen: 50.481 ug/l
RT: 12.536 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Tgt Ion:156 Resp: 151539

Ion	Ratio	Lower	Upper
156	100		
77	185.5	91.4	274.2
158	95.2	48.1	144.3

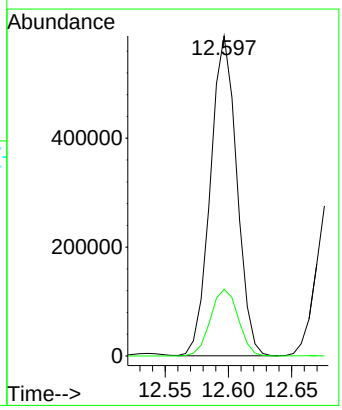


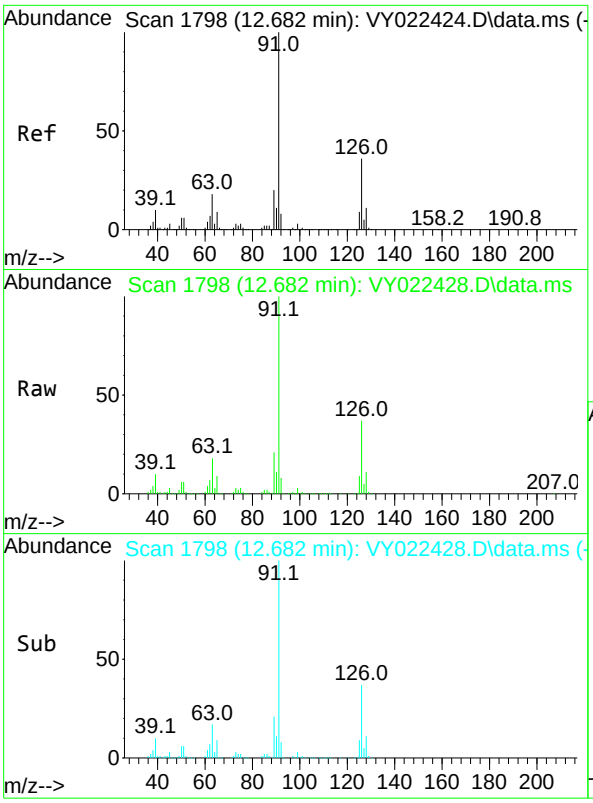


#78
n-propylbenzene
Concen: 50.973 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 91 Resp: 853326

Ion	Ratio	Lower	Upper
91	100		
120	21.9	11.2	33.5



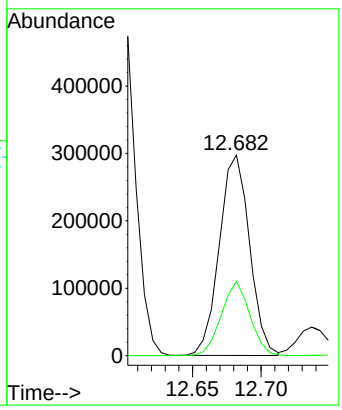


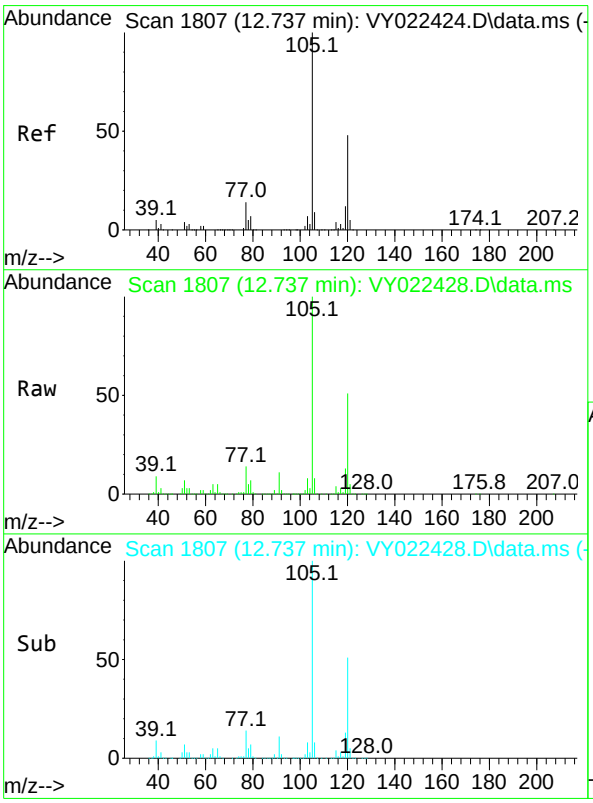
#79
2-Chlorotoluene
Concen: 50.314 ug/l
RT: 12.682 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Tgt Ion: 91 Resp: 455944

Ion	Ratio	Lower	Upper
91	100		
126	35.0	17.4	52.3

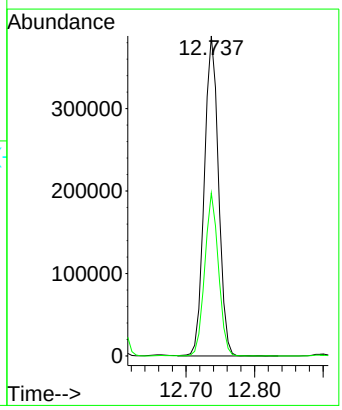


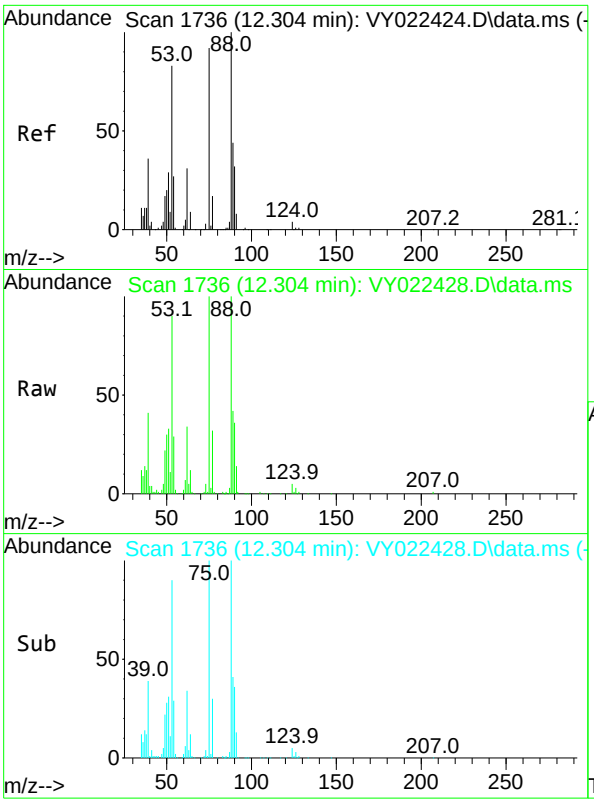


#80
1,3,5-Trimethylbenzene
Concen: 51.376 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion:105 Resp: 559964

Ion	Ratio	Lower	Upper
105	100		
120	49.2	24.3	73.0



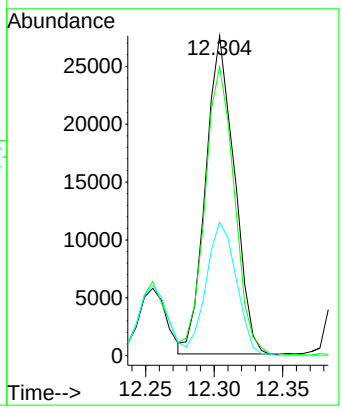


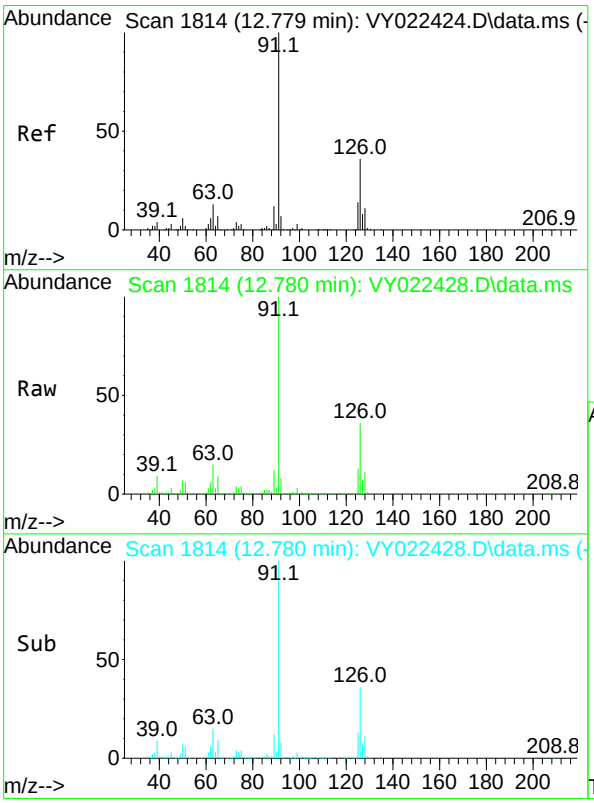
#81
trans-1,4-Dichloro-2-butene
Concen: 51.064 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Tgt Ion: 75 Resp: 40088

Ion	Ratio	Lower	Upper
75	100		
53	93.6	75.1	112.7
89	44.0	37.4	56.0

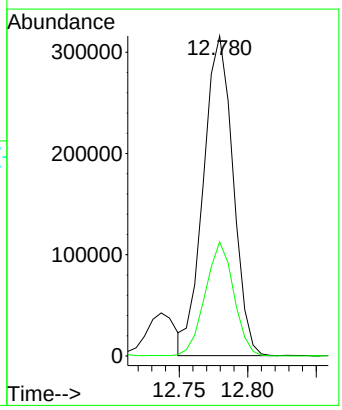


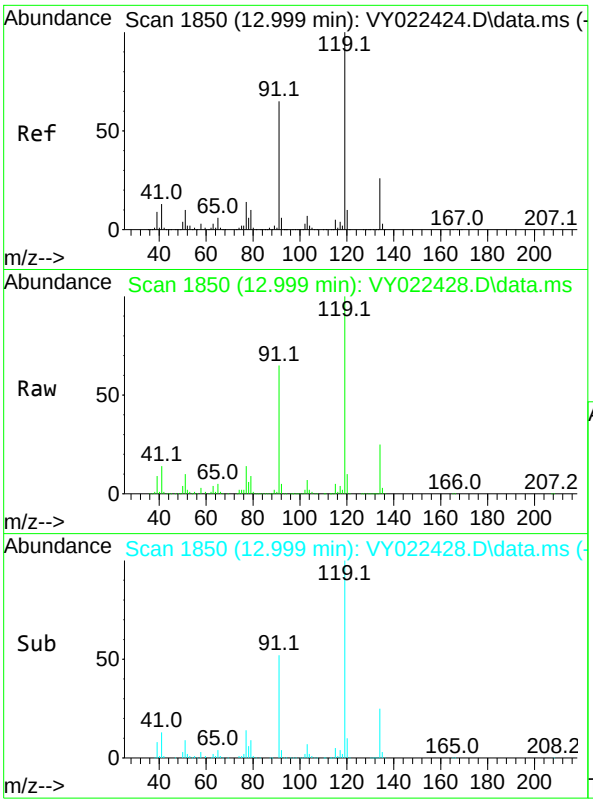


#82
4-Chlorotoluene
Concen: 50.944 ug/l
RT: 12.780 min Scan# 1814
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 91 Resp: 475462

Ion	Ratio	Lower	Upper
91	100		
126	34.4	17.2	51.6



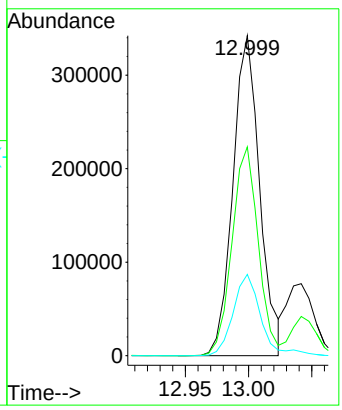


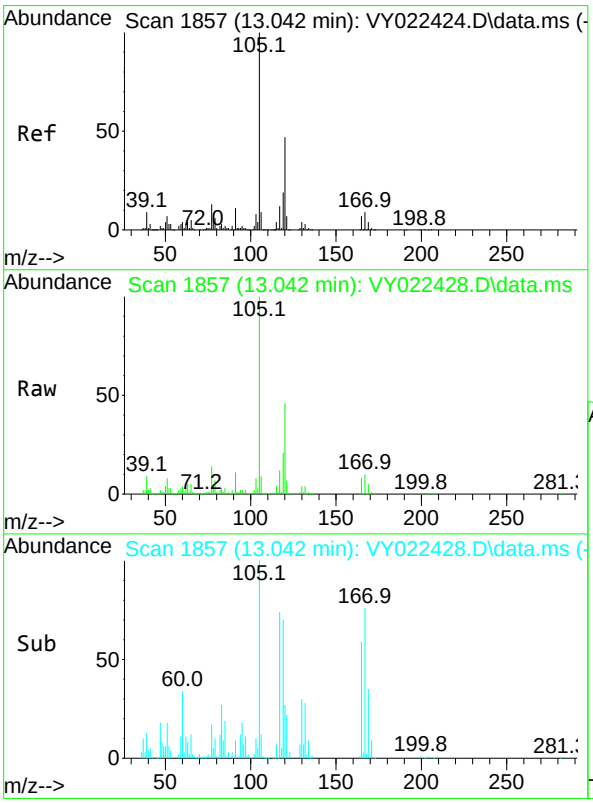
#83
tert-Butylbenzene
Concen: 51.321 ug/l
RT: 12.999 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Tgt Ion:119 Resp: 505382

Ion	Ratio	Lower	Upper
119	100		
91	63.7	31.8	95.3
134	26.2	13.0	38.9

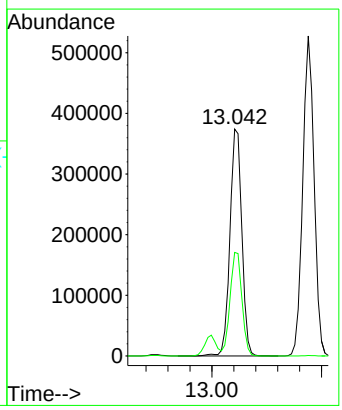


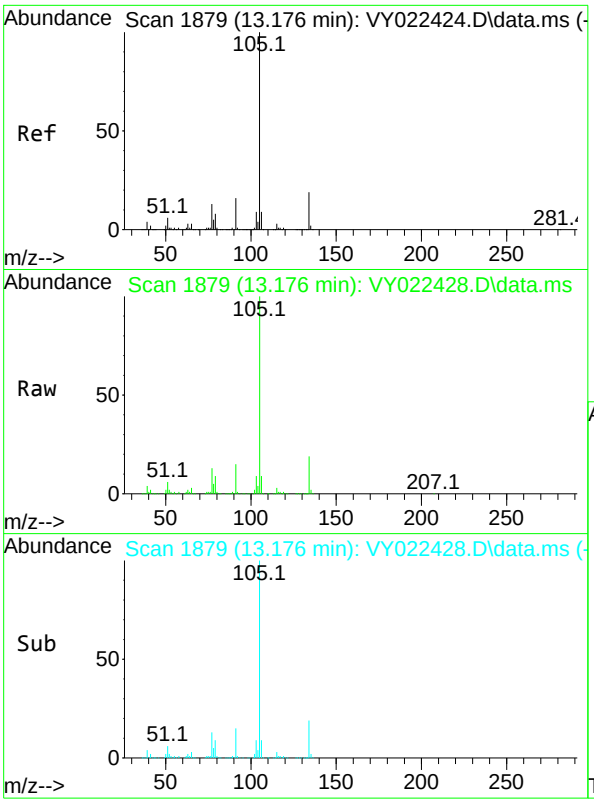


#84
1,2,4-Trimethylbenzene
Concen: 51.325 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion:105 Resp: 562945

Ion	Ratio	Lower	Upper
105	100		
120	45.4	22.9	68.5



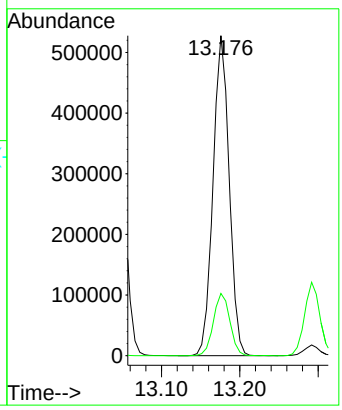


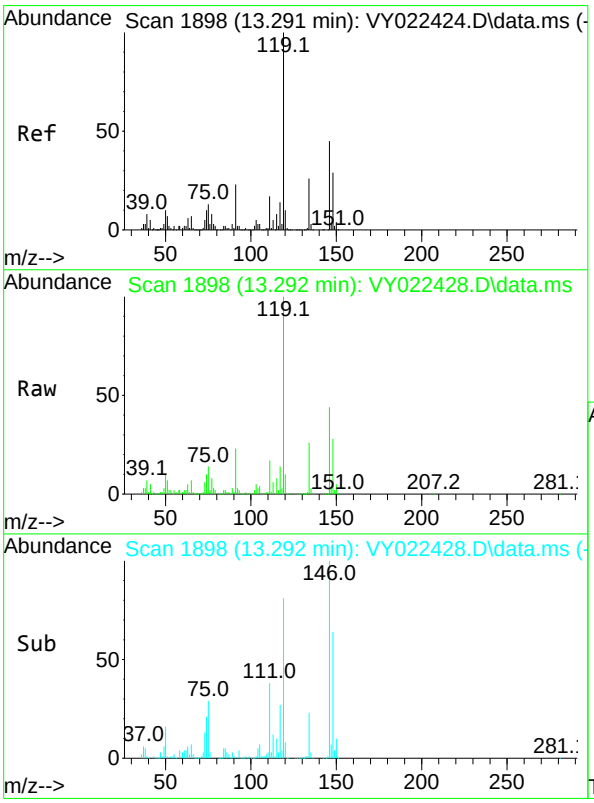
#85
sec-Butylbenzene
Concen: 51.763 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Tgt Ion:105 Resp: 755958

Ion	Ratio	Lower	Upper
105	100		
134	19.8	9.7	29.1

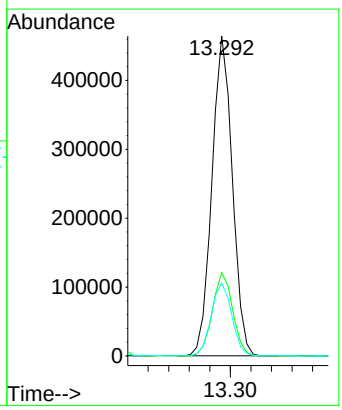


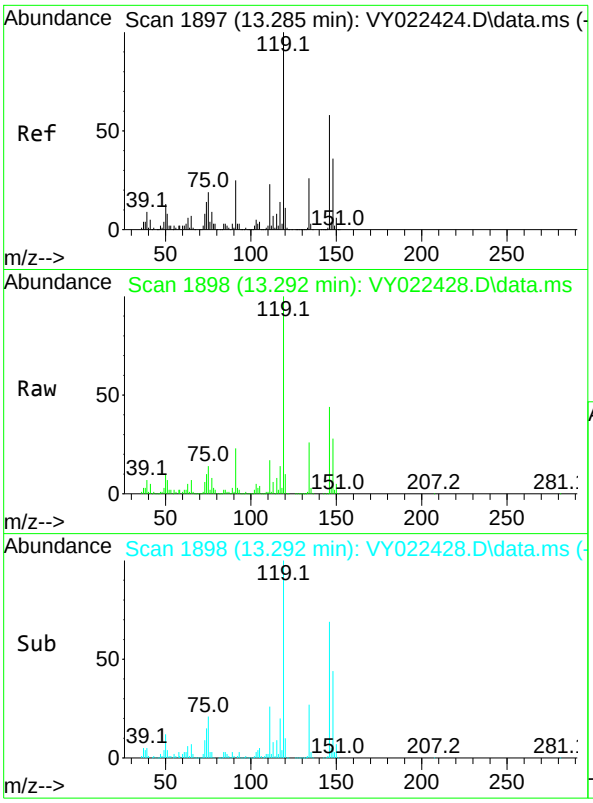


#86
p-Isopropyltoluene
Concen: 52.334 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion:119 Resp: 638231

Ion	Ratio	Lower	Upper
119	100		
134	26.0	13.0	39.0
91	22.9	11.6	34.8



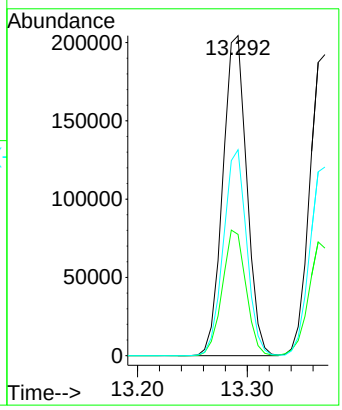


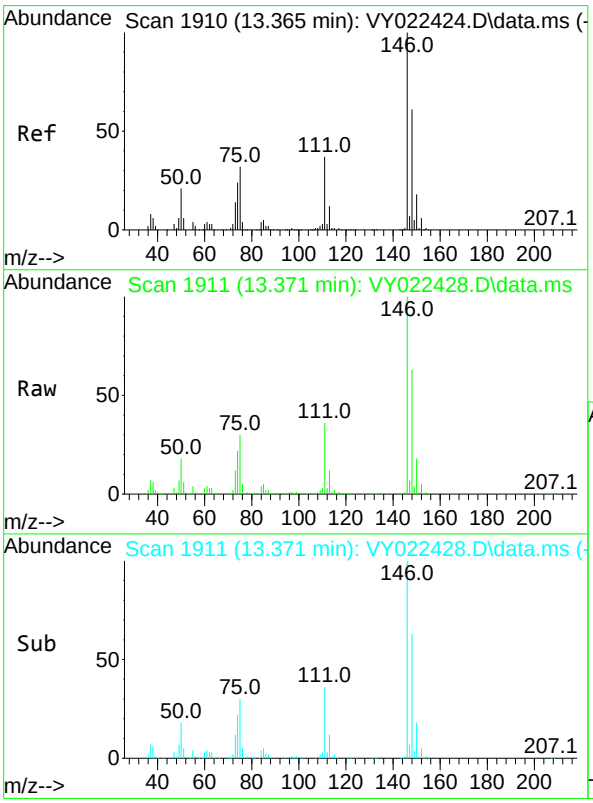
#87
1,3-Dichlorobenzene
Concen: 51.396 ug/l
RT: 13.292 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Tgt Ion:146 Resp: 310435

Ion	Ratio	Lower	Upper
146	100		
111	38.7	19.6	58.8
148	62.7	31.7	95.1

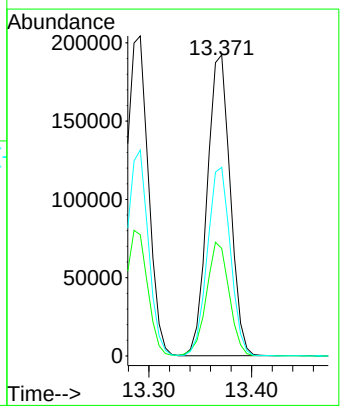


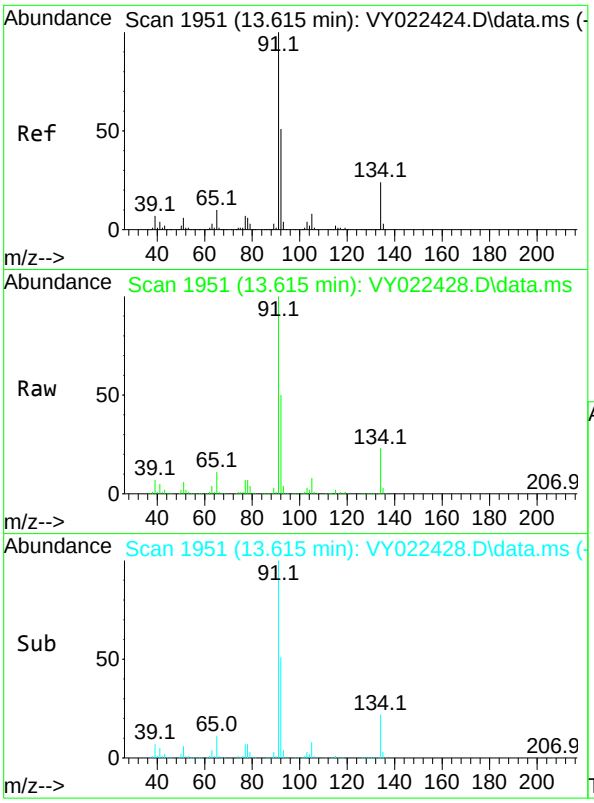


#88
1,4-Dichlorobenzene
Concen: 51.622 ug/l
RT: 13.371 min Scan# 1911
Delta R.T. 0.006 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion:146 Resp: 298140

Ion	Ratio	Lower	Upper
146	100		
111	37.6	18.7	56.1
148	63.1	31.4	94.3



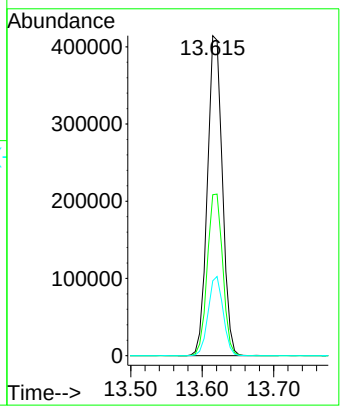


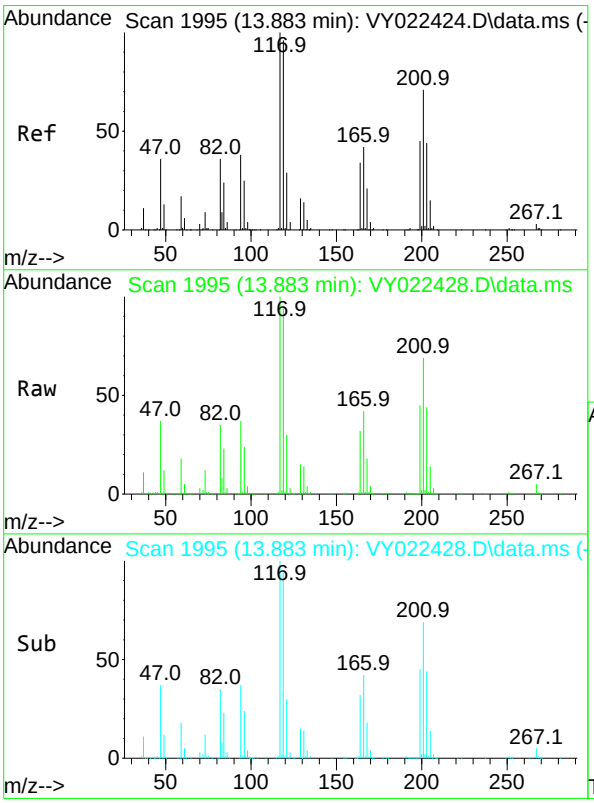
#89
n-Butylbenzene
Concen: 52.600 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Tgt Ion: 91 Resp: 601455

Ion	Ratio	Lower	Upper
91	100		
92	51.9	25.9	77.6
134	24.7	12.4	37.0

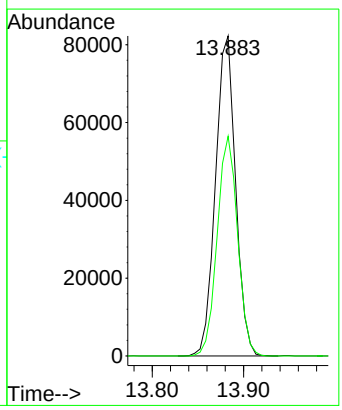


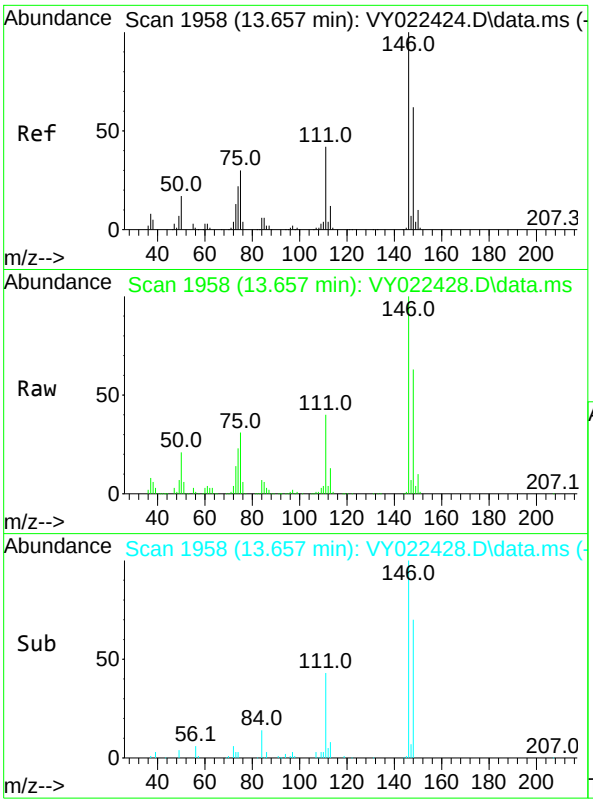


#90
Hexachloroethane
Concen: 51.881 ug/l
RT: 13.883 min Scan# 1995
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion:117 Resp: 125908

Ion	Ratio	Lower	Upper
117	100		
201	69.7	35.0	105.0



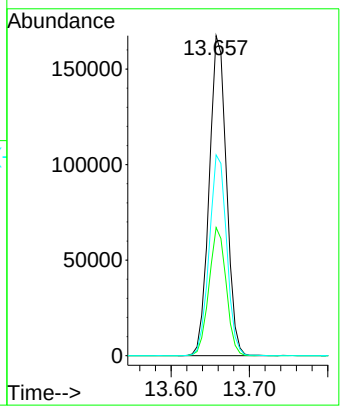


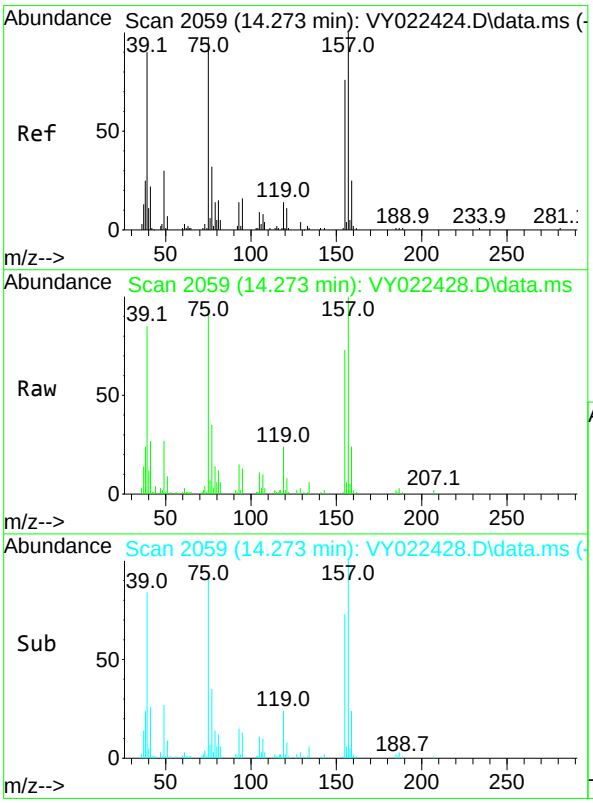
#91
1,2-Dichlorobenzene
Concen: 50.701 ug/l
RT: 13.657 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Tgt Ion:146 Resp: 255789

Ion	Ratio	Lower	Upper
146	100		
111	39.8	20.5	61.6
148	63.5	31.9	95.9

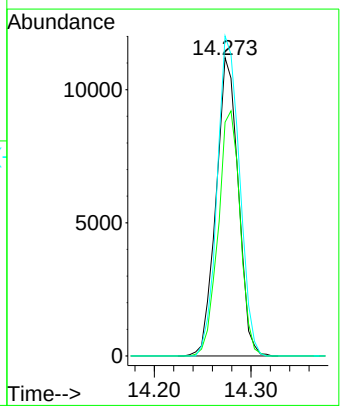


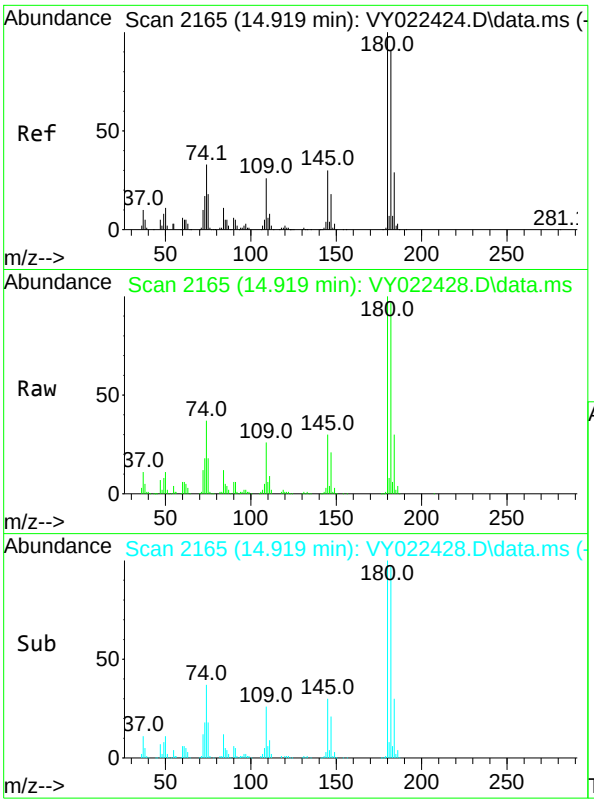


#92
1,2-Dibromo-3-Chloropropane
Concen: 52.462 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion: 75 Resp: 17817

Ion	Ratio	Lower	Upper
75	100		
155	81.1	42.3	126.8
157	108.0	54.4	163.3



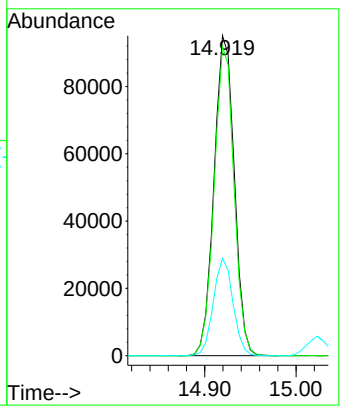


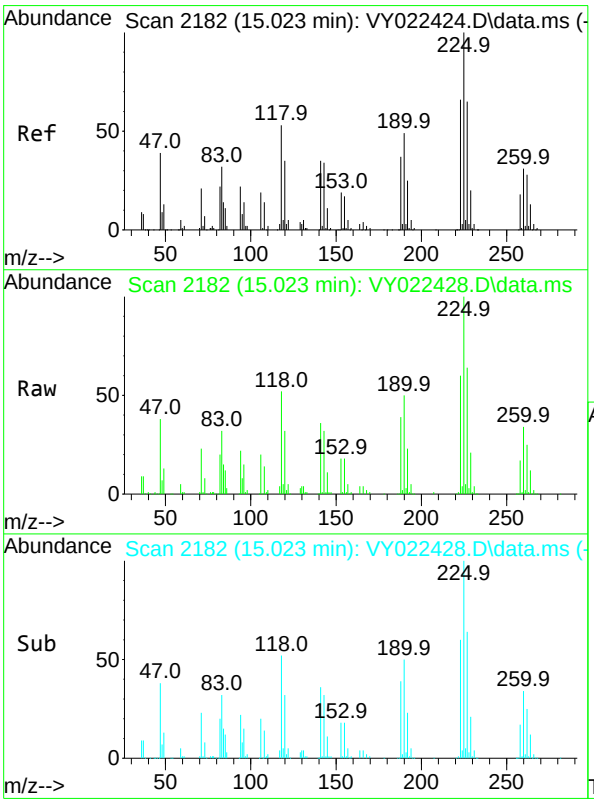
#93
1,2,4-Trichlorobenzene
Concen: 52.407 ug/l
RT: 14.919 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Tgt Ion:180 Resp: 146574

Ion	Ratio	Lower	Upper
180	100		
182	94.6	46.2	138.6
145	29.4	14.2	42.8

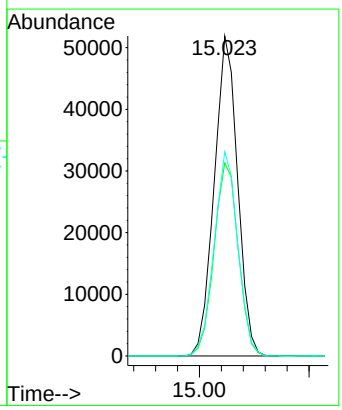


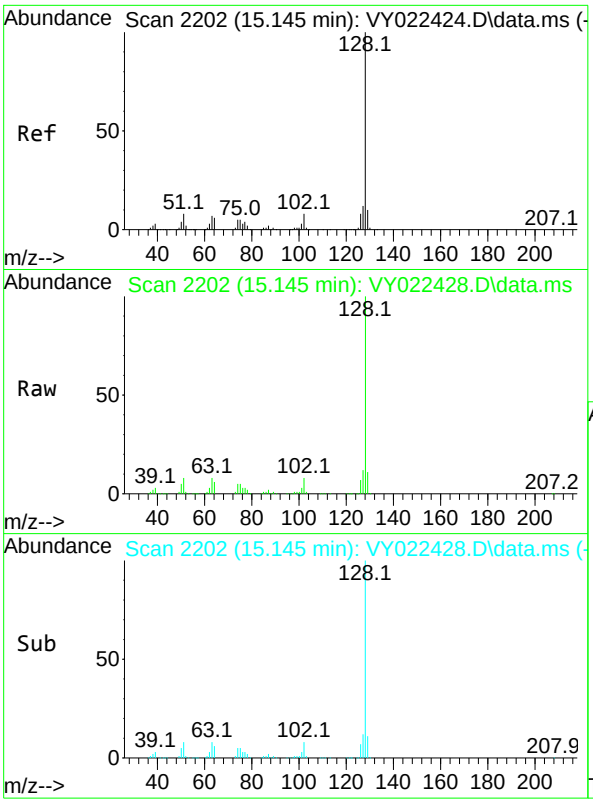


#94
Hexachlorobutadiene
Concen: 52.335 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion:225 Resp: 76816

Ion	Ratio	Lower	Upper
225	100		
223	62.3	32.6	97.7
227	64.5	33.0	99.0



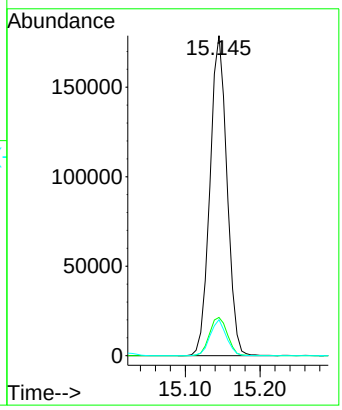


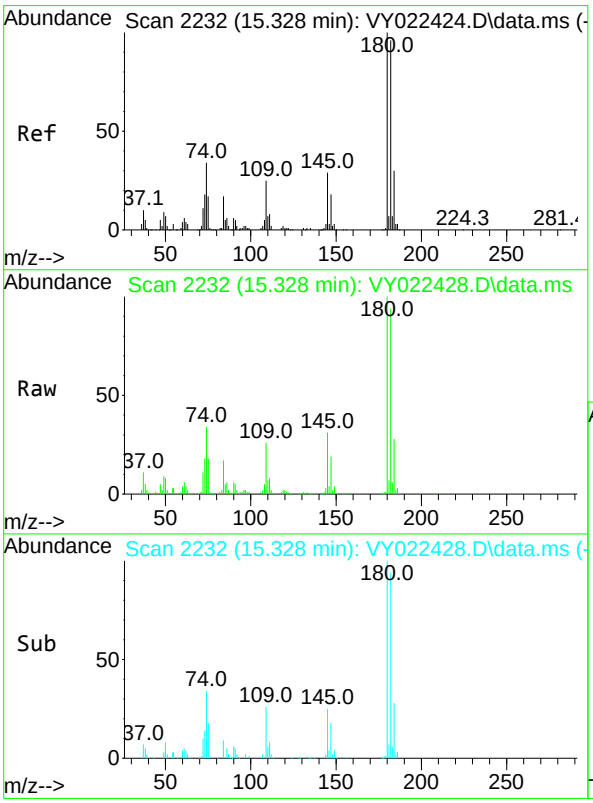
#95
Naphthalene
Concen: 54.826 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY052725

Tgt Ion:128 Resp: 283477

Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.2	15.4
129	10.8	8.5	12.7

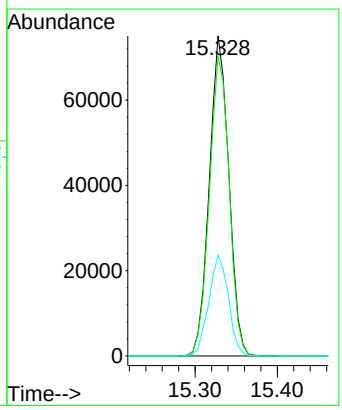




#96
1,2,3-Trichlorobenzene
Concen: 53.900 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. 0.000 min
Lab File: VY022428.D
Acq: 27 May 2025 11:56

Tgt Ion:180 Resp: 123635

Ion	Ratio	Lower	Upper
180	100		
182	94.8	48.1	144.3
145	31.8	14.9	44.5



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022430.D
Acq On : 27 May 2025 13:35
Operator : SY/MD
Sample : VY0527SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

Quant Time: May 28 15:26:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	230468	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	399143	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	340460	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	155764	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	126153	51.967	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 103.940%			
35) Dibromofluoromethane	7.634	113	119363	51.064	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 102.120%			
50) Toluene-d8	10.103	98	478633	50.229	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 100.460%			
62) 4-Bromofluorobenzene	12.402	95	139946	48.553	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 97.100%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.861	85	48906	22.242	ug/l	95
3) Chloromethane	2.068	50	133284	24.643	ug/l	100
4) Vinyl Chloride	2.202	62	146083	22.233	ug/l	98
5) Bromomethane	2.592	94	146140	24.475	ug/l	97
6) Chloroethane	2.733	64	100853	23.489	ug/l	97
7) Trichlorofluoromethane	3.050	101	129189	23.304	ug/l	99
8) Diethyl Ether	3.458	74	28054	21.947	ug/l	97
9) 1,1,2-Trichlorotrifluo...	3.812	101	52971	21.780	ug/l	98
10) Methyl Iodide	4.001	142	52498	19.133	ug/l	99
11) Tert butyl alcohol	4.879	59	17417	101.788	ug/l #	84
12) 1,1-Dichloroethene	3.787	96	51748	21.431	ug/l	93
13) Acrolein	3.653	56	26027	101.515	ug/l	97
14) Allyl chloride	4.379	41	76669	21.108	ug/l	98
15) Acrylonitrile	5.061	53	54240	105.272	ug/l	98
16) Acetone	3.873	43	38917	97.560	ug/l	92
17) Carbon Disulfide	4.104	76	164494	21.347	ug/l	99
18) Methyl Acetate	4.391	43	36478	24.412	ug/l	96
19) Methyl tert-butyl Ether	5.122	73	134624	21.000	ug/l	100
20) Methylene Chloride	4.616	84	58197	20.660	ug/l	95
21) trans-1,2-Dichloroethene	5.110	96	56538	21.447	ug/l	98
22) Diisopropyl ether	6.019	45	173680	21.665	ug/l	98
23) Vinyl Acetate	5.958	43	465656	101.165	ug/l	99
24) 1,1-Dichloroethane	5.915	63	102108	21.556	ug/l	99
25) 2-Butanone	6.896	43	66547	100.170	ug/l	99
26) 2,2-Dichloropropane	6.884	77	89103	20.774	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	66528	21.800	ug/l	98
28) Bromochloromethane	7.250	49	42697	21.586	ug/l	98
29) Tetrahydrofuran	7.262	42	46559	105.084	ug/l	97
30) Chloroform	7.421	83	101394	21.723	ug/l	98
31) Cyclohexane	7.701	56	93643	20.054	ug/l #	93
32) 1,1,1-Trichloroethane	7.616	97	90476	21.358	ug/l	100
36) 1,1-Dichloropropene	7.835	75	74812	20.169	ug/l	100
37) Ethyl Acetate	6.982	43	32652	20.713	ug/l	99
38) Carbon Tetrachloride	7.817	117	77697	20.108	ug/l	97
39) Methylcyclohexane	9.109	83	98231	19.923	ug/l	99
40) Benzene	8.079	78	230138	20.851	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022430.D
Acq On : 27 May 2025 13:35
Operator : SY/MD
Sample : VY0527SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

Quant Time: May 28 15:26:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.268	41	23980	25.064	ug/l	#	46
42) 1,2-Dichloroethane	8.158	62	60983	20.920	ug/l		99
43) Isopropyl Acetate	8.195	43	69531	20.185	ug/l		99
44) Trichloroethene	8.866	130	55229	20.242	ug/l		99
45) 1,2-Dichloropropane	9.140	63	54068	20.850	ug/l		99
46) Dibromomethane	9.231	93	29341	20.254	ug/l		99
47) Bromodichloromethane	9.420	83	76948	20.656	ug/l		100
48) Methyl methacrylate	9.219	41	32772	20.495	ug/l		98
49) 1,4-Dioxane	9.231	88	6738	421.110	ug/l	#	95
51) 4-Methyl-2-Pentanone	10.000	43	168616	99.209	ug/l		99
52) Toluene	10.170	92	142314	20.644	ug/l		100
53) t-1,3-Dichloropropene	10.390	75	69585	20.054	ug/l		99
54) cis-1,3-Dichloropropene	9.859	75	82670	20.276	ug/l		97
55) 1,1,2-Trichloroethane	10.573	97	37845	20.663	ug/l		98
56) Ethyl methacrylate	10.438	69	52031	19.796	ug/l		100
57) 1,3-Dichloropropane	10.719	76	66285	20.537	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.713	63	129124	98.573	ug/l		100
59) 2-Hexanone	10.762	43	108584	97.487	ug/l		97
60) Dibromochloromethane	10.908	129	48358	20.669	ug/l		100
61) 1,2-Dibromoethane	11.012	107	34056	20.330	ug/l		97
64) Tetrachloroethene	10.646	164	57716	19.905	ug/l		95
65) Chlorobenzene	11.438	112	147244	20.283	ug/l		97
66) 1,1,1,2-Tetrachloroethane	11.511	131	49061	19.946	ug/l		98
67) Ethyl Benzene	11.518	91	265605	19.704	ug/l		100
68) m/p-Xylenes	11.627	106	200646	39.260	ug/l		98
69) o-Xylene	11.957	106	95157	19.811	ug/l		100
70) Styrene	11.969	104	159948	19.999	ug/l		99
71) Bromoform	12.133	173	25744	19.982	ug/l	#	96
73) Isopropylbenzene	12.255	105	250558	20.438	ug/l		99
74) N-amyl acetate	12.066	43	57558	19.188	ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.505	83	39835	20.624	ug/l		100
76) 1,2,3-Trichloropropane	12.554	75	55271	35.425	ug/l	#	100
77) Bromobenzene	12.530	156	53210	20.170	ug/l		98
78) n-propylbenzene	12.591	91	298731	20.305	ug/l		99
79) 2-Chlorotoluene	12.676	91	160337	20.133	ug/l		99
80) 1,3,5-Trimethylbenzene	12.737	105	194158	20.270	ug/l		98
81) trans-1,4-Dichloro-2-b...	12.298	75	13162	19.077	ug/l		94
82) 4-Chlorotoluene	12.773	91	165029	20.120	ug/l		99
83) tert-Butylbenzene	12.999	119	176391	20.382	ug/l		99
84) 1,2,4-Trimethylbenzene	13.042	105	195735	20.306	ug/l		100
85) sec-Butylbenzene	13.176	105	264497	20.608	ug/l		100
86) p-Isopropyltoluene	13.292	119	213252	19.898	ug/l		100
87) 1,3-Dichlorobenzene	13.286	146	104797	19.743	ug/l		98
88) 1,4-Dichlorobenzene	13.365	146	104056	20.501	ug/l		97
89) n-Butylbenzene	13.615	91	204753	20.376	ug/l		99
90) Hexachloroethane	13.877	117	44745	20.980	ug/l		96
91) 1,2-Dichlorobenzene	13.657	146	91980	20.746	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	5660	18.964	ug/l		96
93) 1,2,4-Trichlorobenzene	14.919	180	51786	21.069	ug/l		100
94) Hexachlorobutadiene	15.023	225	27978	21.690	ug/l		97
95) Naphthalene	15.139	128	92664	20.393	ug/l		100
96) 1,2,3-Trichlorobenzene	15.328	180	43102	21.382	ug/l		98

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022430.D
Acq On : 27 May 2025 13:35
Operator : SY/MD
Sample : VY0527SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

Quant Time: May 28 15:26:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration

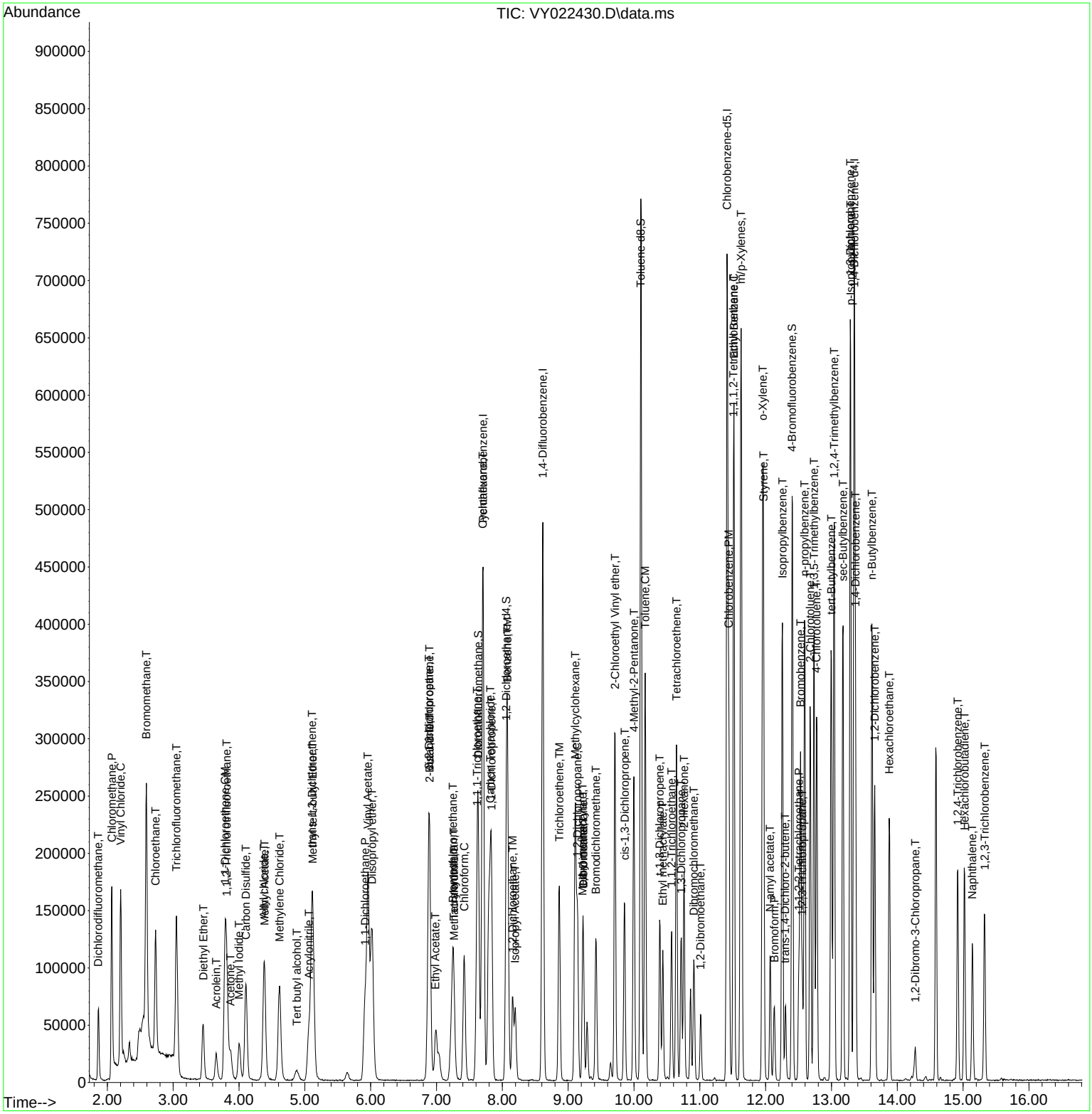
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

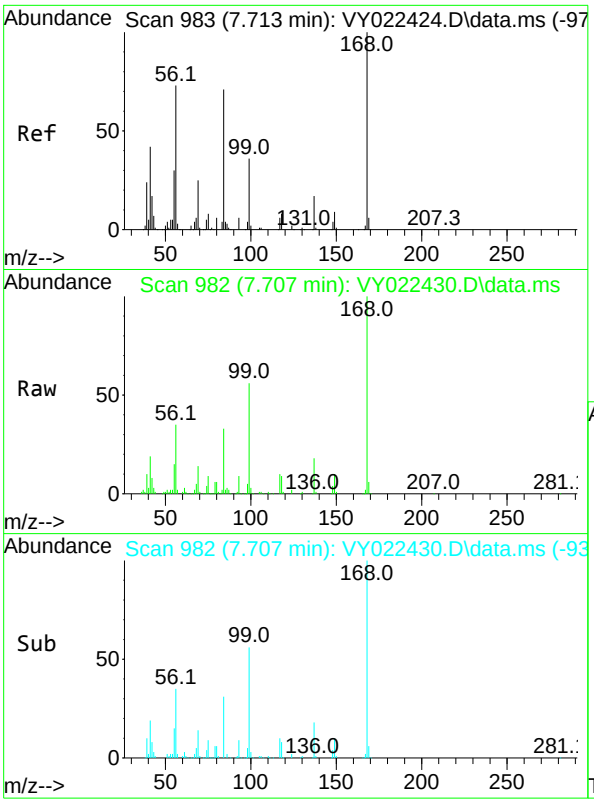
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022430.D
Acq On : 27 May 2025 13:35
Operator : SY/MD
Sample : VY0527SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

Quant Time: May 28 15:26:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration



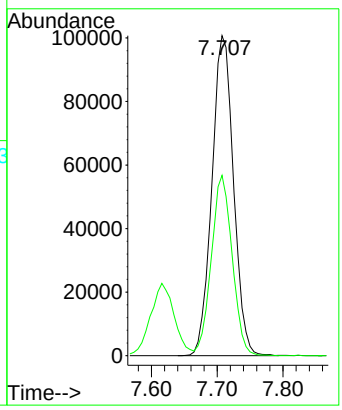


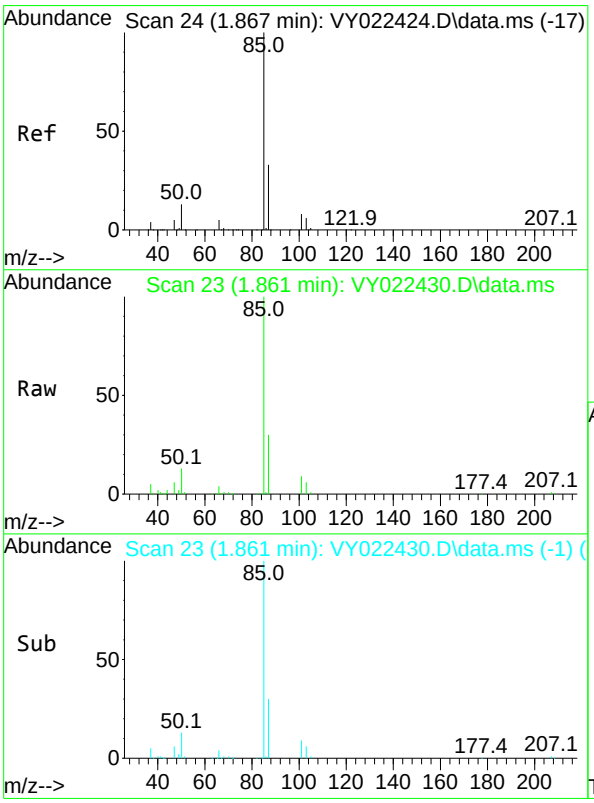
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

Tgt Ion:168 Resp: 230468

Ion	Ratio	Lower	Upper
168	100		
99	56.3	44.7	67.1

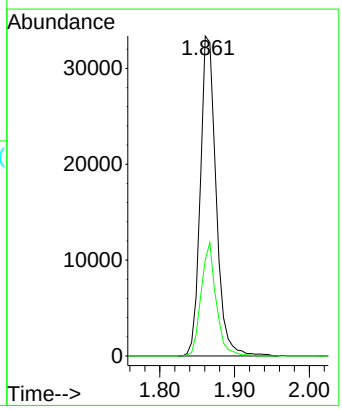


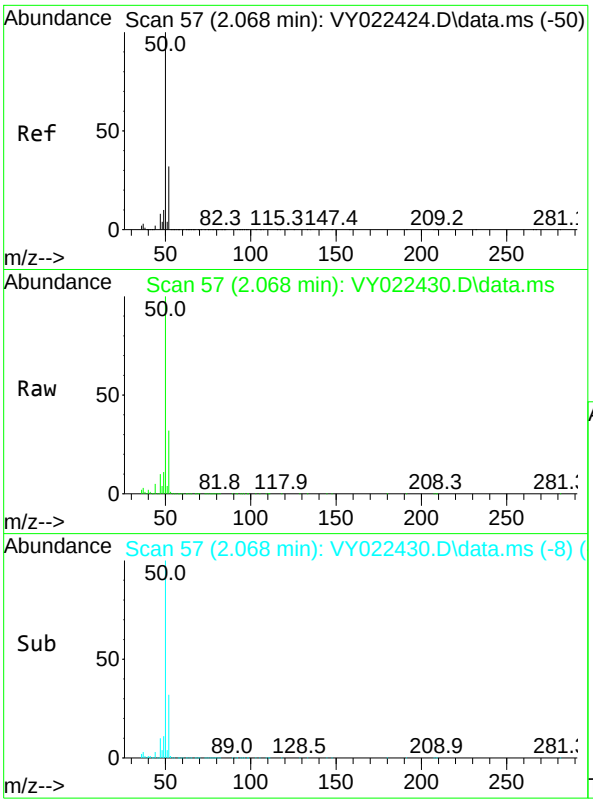


#2
Dichlorodifluoromethane
Concen: 22.242 ug/l
RT: 1.861 min Scan# 23
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 85 Resp: 48906

Ion	Ratio	Lower	Upper
85	100		
87	30.1	16.4	49.2



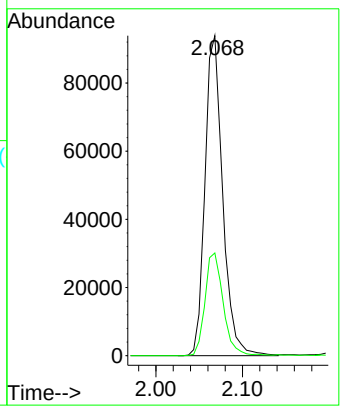


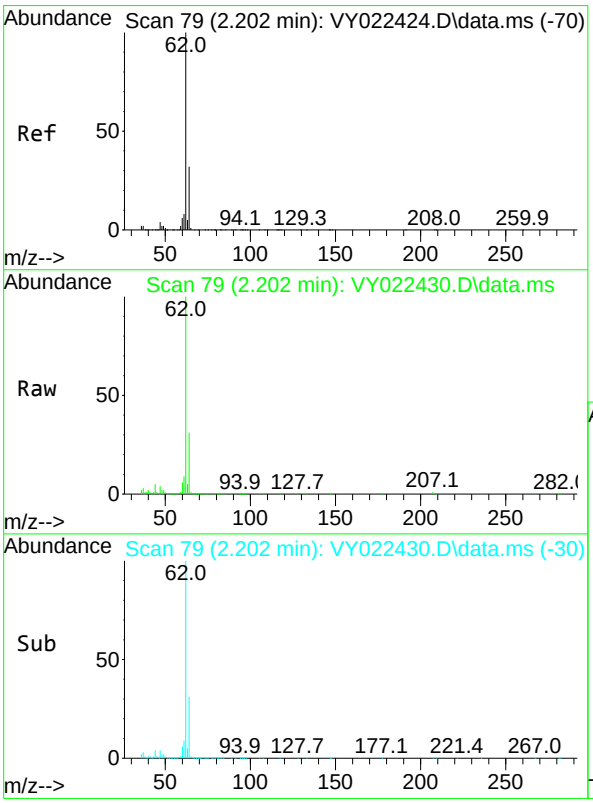
#3
Chloromethane
Concen: 24.643 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

Tgt Ion: 50 Resp: 133284

Ion	Ratio	Lower	Upper
50	100		
52	32.1	25.5	38.3

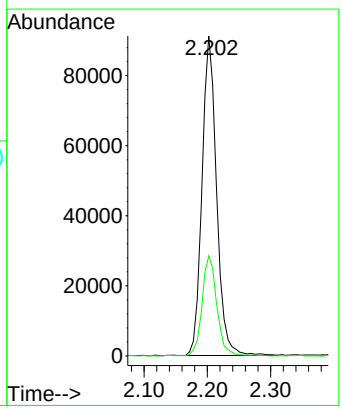


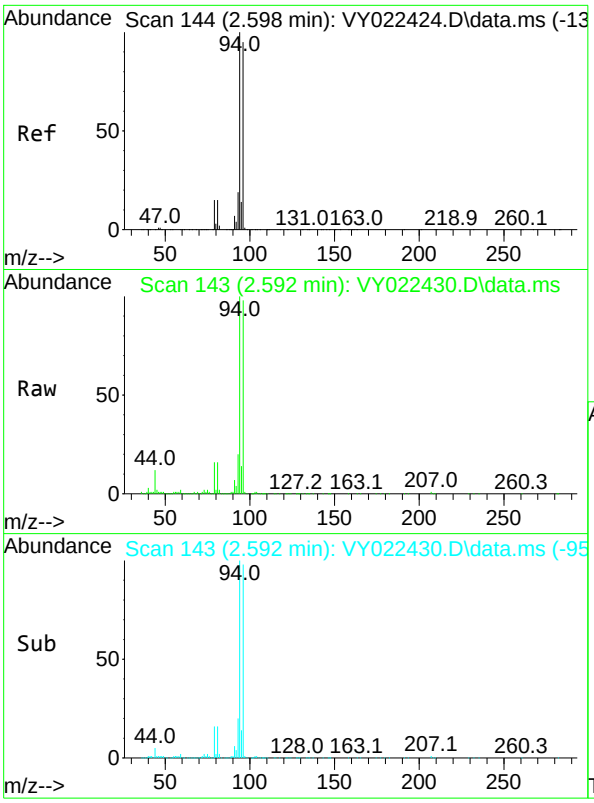


#4
Vinyl Chloride
Concen: 22.233 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.000 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 62 Resp: 146083

Ion	Ratio	Lower	Upper
62	100		
64	31.3	26.0	39.0



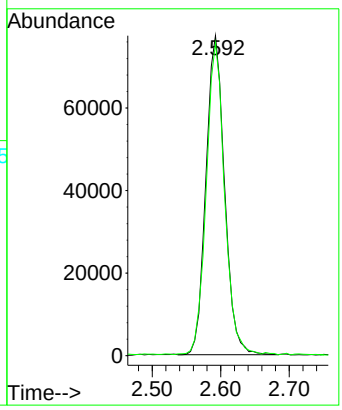


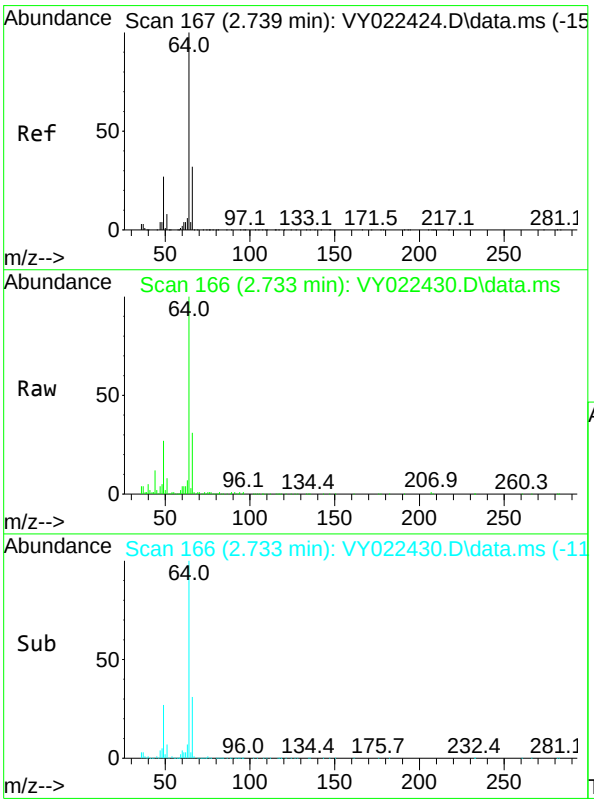
#5
Bromomethane
Concen: 24.475 ug/l
RT: 2.592 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

Tgt Ion: 94 Resp: 146140

Ion	Ratio	Lower	Upper
94	100		
96	97.7	76.0	114.0

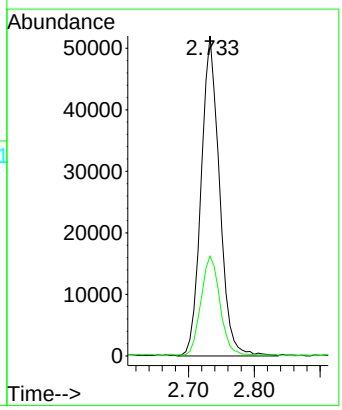


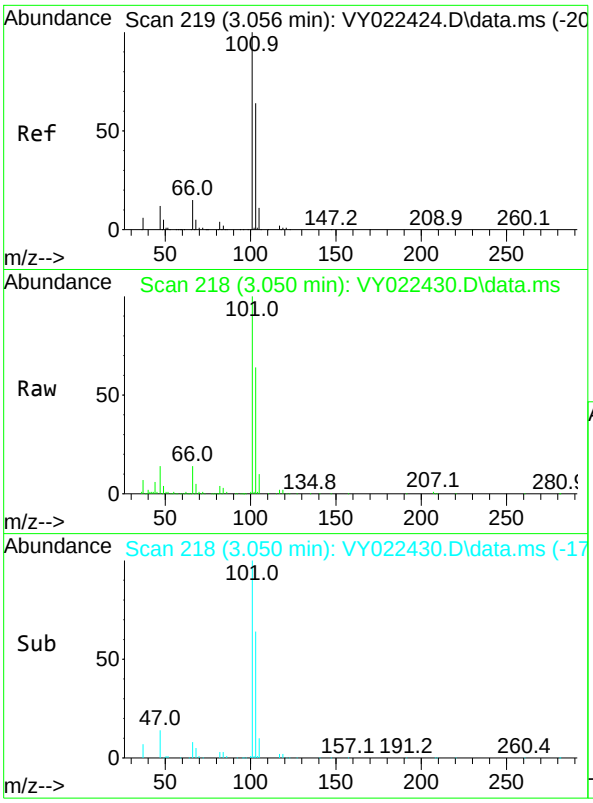


#6
Chloroethane
Concen: 23.489 ug/l
RT: 2.733 min Scan# 166
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 64 Resp: 100853

Ion	Ratio	Lower	Upper
64	100		
66	30.9	25.9	38.9



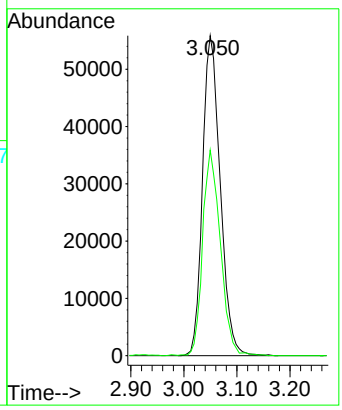


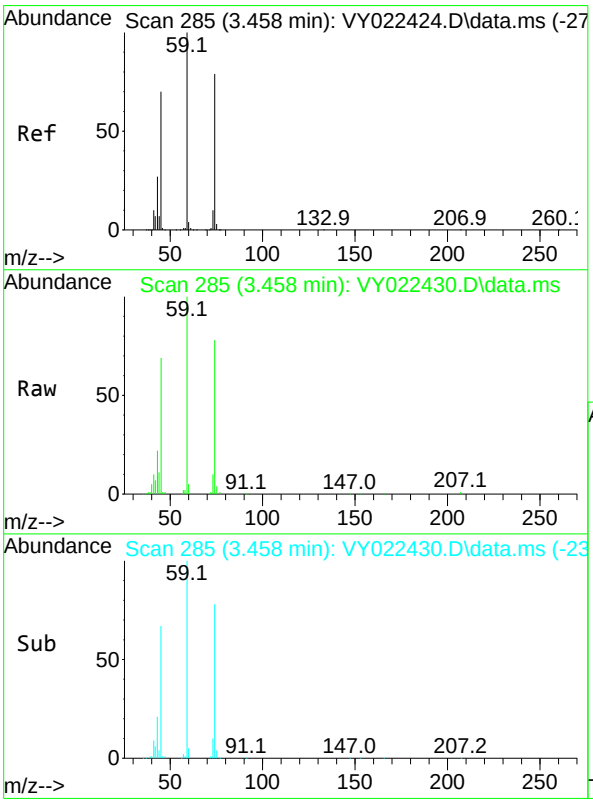
#7
Trichlorofluoromethane
Concen: 23.304 ug/l
RT: 3.050 min Scan# 21
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

Tgt Ion:101 Resp: 129189

Ion	Ratio	Lower	Upper
101	100		
103	64.3	50.9	76.3

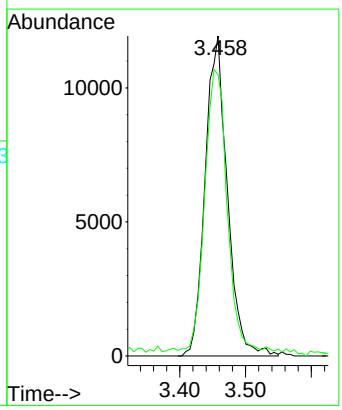


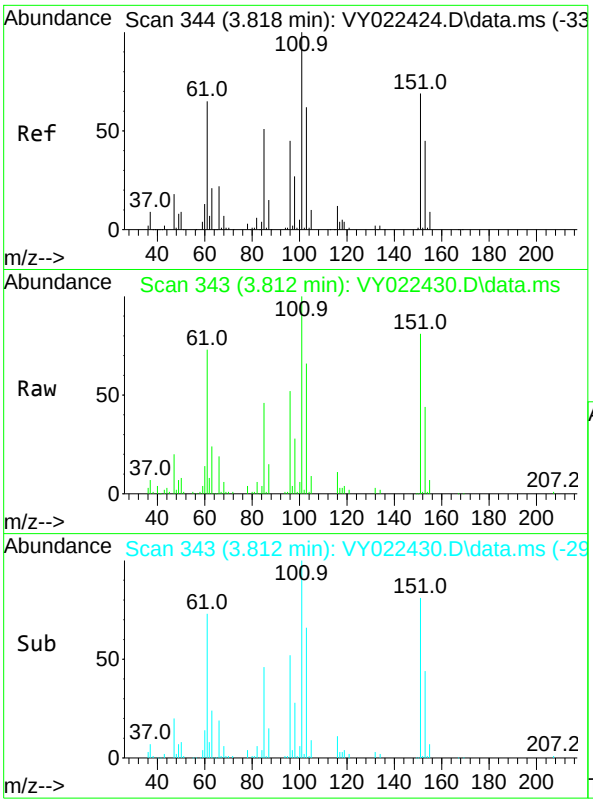


#8
Diethyl Ether
Concen: 21.947 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.000 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 74 Resp: 28054

Ion	Ratio	Lower	Upper
74	100		
45	87.0	44.9	134.5



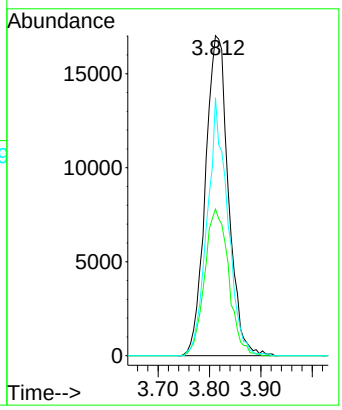


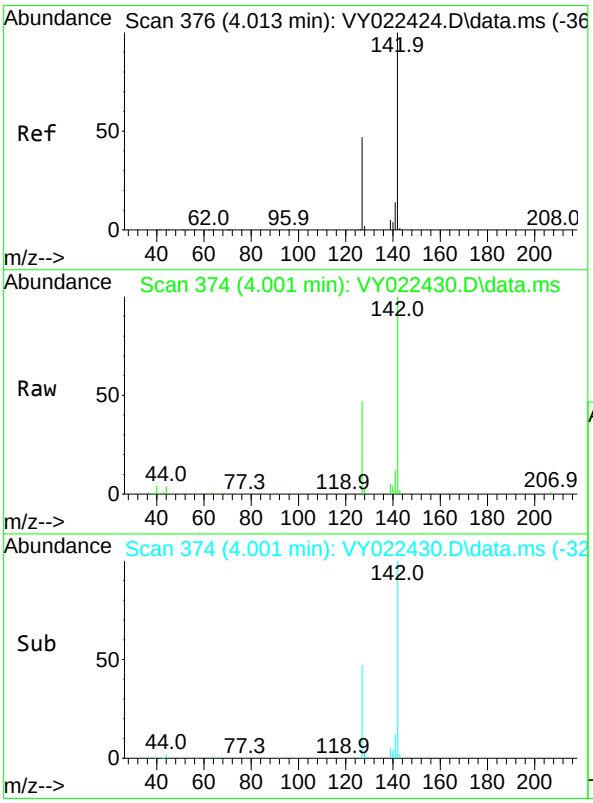
#9
1,1,2-Trichlorotrifluoroethane
Concen: 21.780 ug/l
RT: 3.812 min Scan# 34
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

Tgt Ion:101 Resp: 52971

Ion	Ratio	Lower	Upper
101	100		
85	47.7	39.2	58.8
151	71.4	58.8	88.2

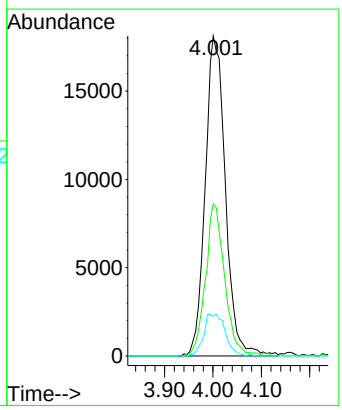


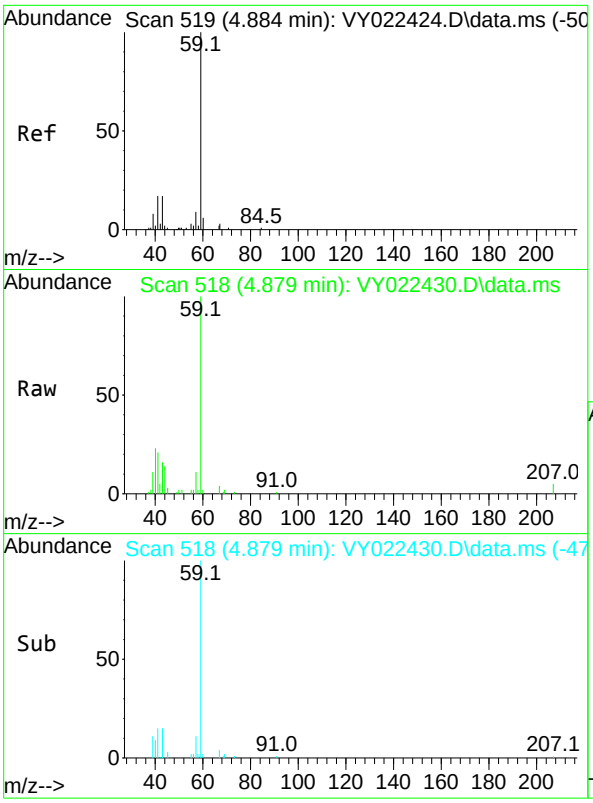


#10
Methyl Iodide
Concen: 19.133 ug/l
RT: 4.001 min Scan# 374
Delta R.T. -0.012 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion:142 Resp: 52498

Ion	Ratio	Lower	Upper
142	100		
127	45.1	36.2	54.4
141	13.9	11.6	17.4



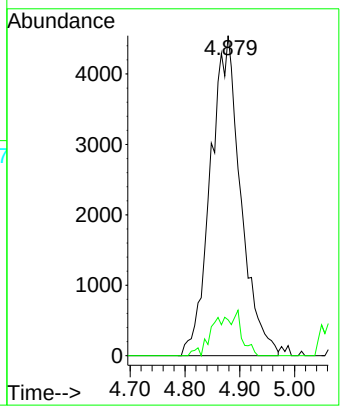


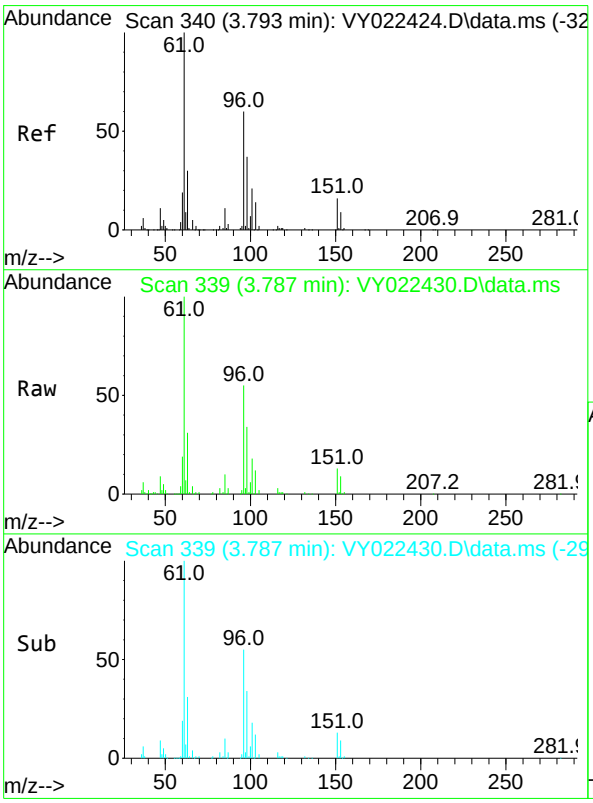
#11
Tert butyl alcohol
Concen: 101.788 ug/l
RT: 4.879 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

Tgt Ion: 59 Resp: 17417

Ion	Ratio	Lower	Upper
59	100		
57	5.3	9.1	13.7#

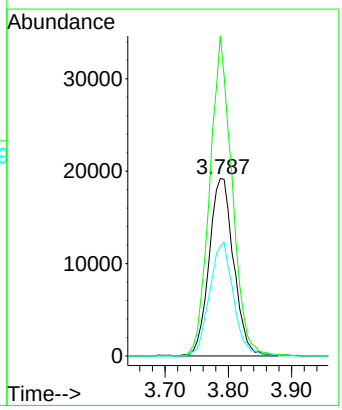


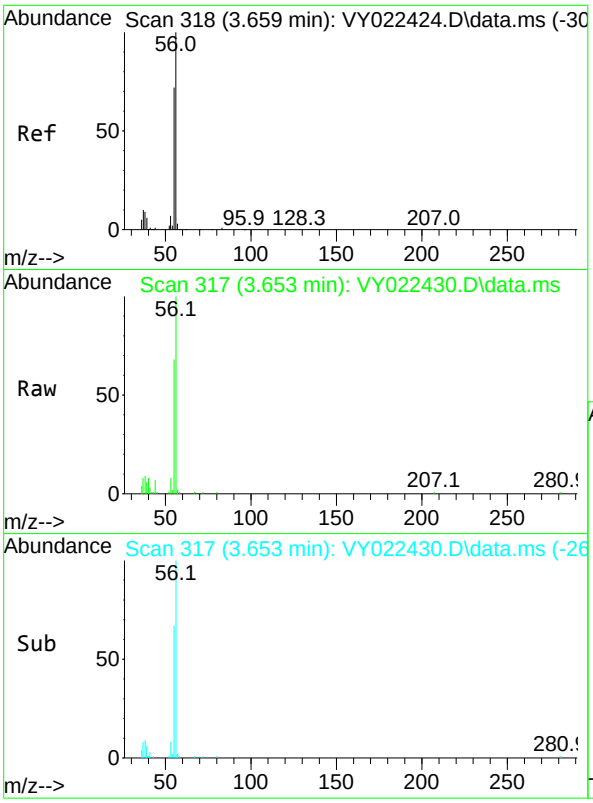


#12
1,1-Dichloroethene
Concen: 21.431 ug/l
RT: 3.787 min Scan# 339
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 96 Resp: 51748

Ion	Ratio	Lower	Upper
96	100		
61	180.4	134.1	201.1
98	61.7	50.2	75.2



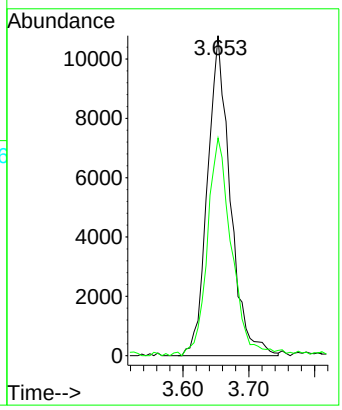


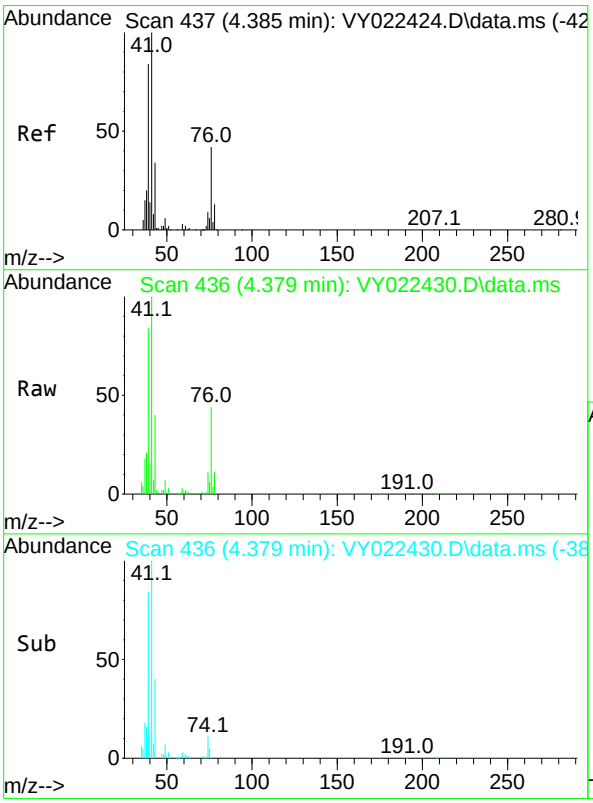
#13
Acrolein
Concen: 101.515 ug/l
RT: 3.653 min Scan# 3
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

Tgt Ion: 56 Resp: 26027

Ion	Ratio	Lower	Upper
56	100		
55	72.9	56.5	84.7

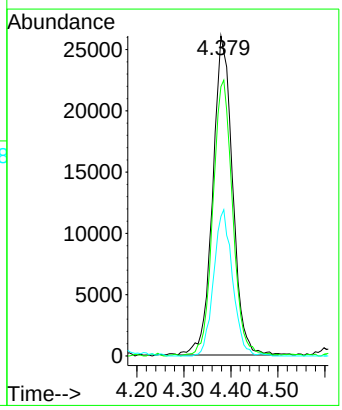


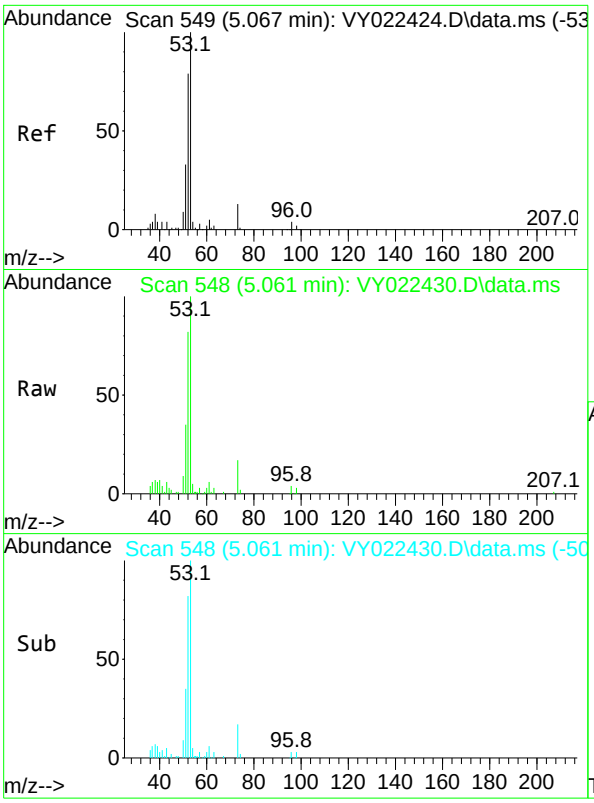


#14
Allyl chloride
Concen: 21.108 ug/l
RT: 4.379 min Scan# 436
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 41 Resp: 76669

Ion	Ratio	Lower	Upper
41	100		
39	85.7	66.6	100.0
76	43.3	33.7	50.5



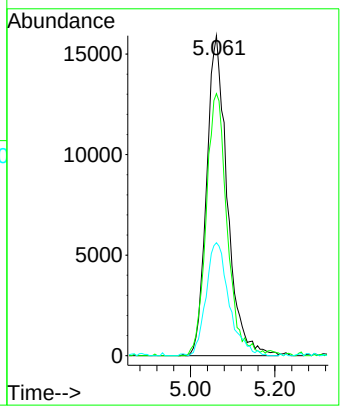


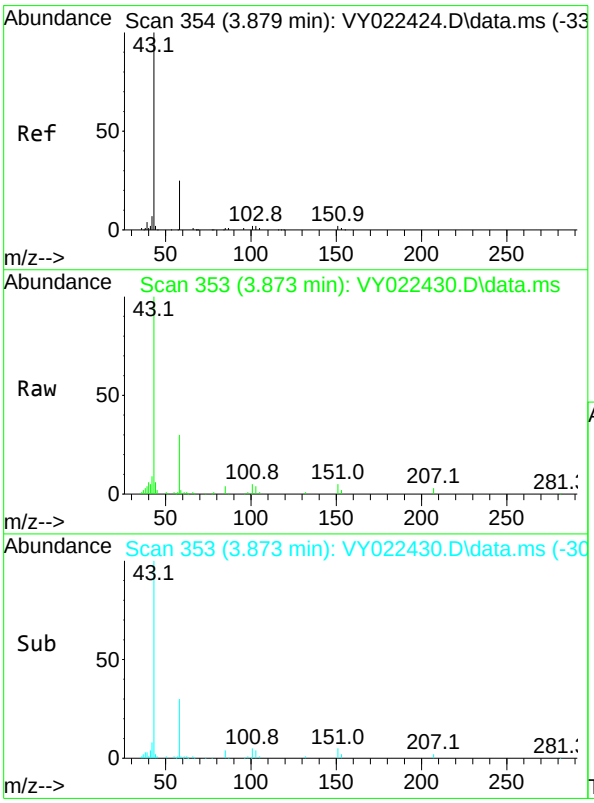
#15
Acrylonitrile
Concen: 105.272 ug/l
RT: 5.061 min Scan# 54
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

Tgt Ion: 53 Resp: 54240

Ion	Ratio	Lower	Upper
53	100		
52	82.7	65.1	97.7
51	39.2	30.0	45.0

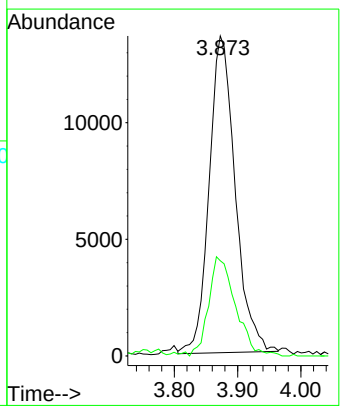


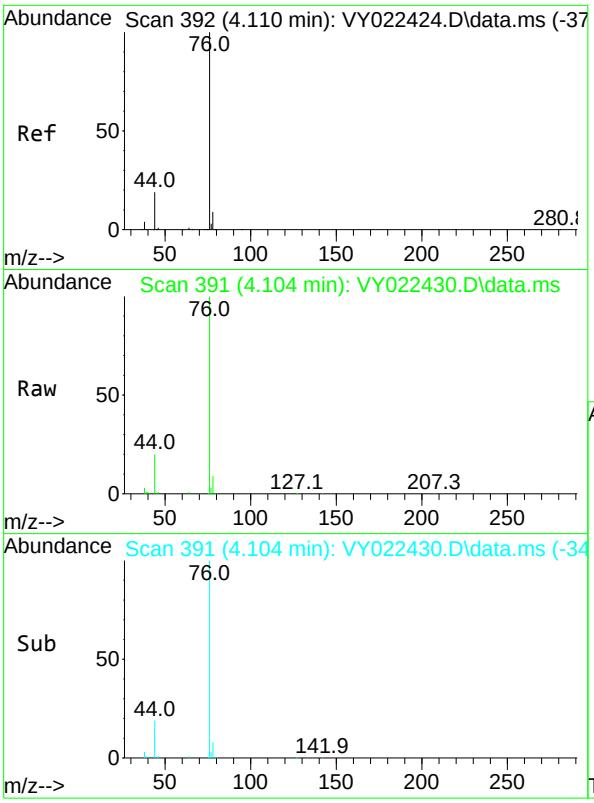


#16
Acetone
Concen: 97.560 ug/l
RT: 3.873 min Scan# 353
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 43 Resp: 38917

Ion	Ratio	Lower	Upper
43	100		
58	29.6	20.6	30.8



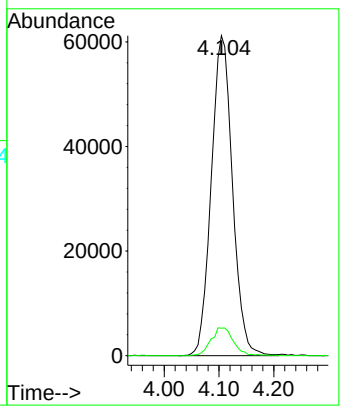


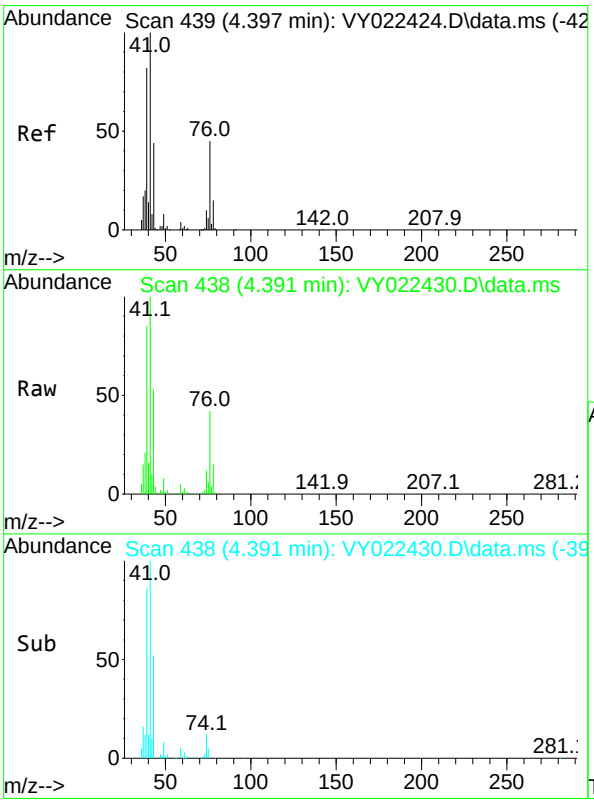
#17
Carbon Disulfide
Concen: 21.347 ug/l
RT: 4.104 min Scan# 3
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

Tgt Ion: 76 Resp: 164494

Ion	Ratio	Lower	Upper
76	100		
78	8.6	7.2	10.8

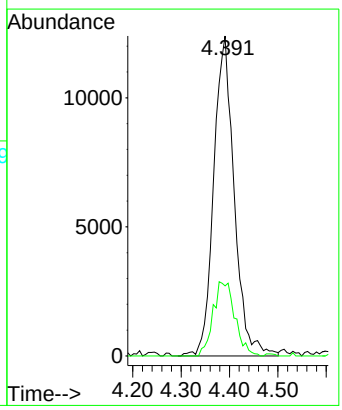


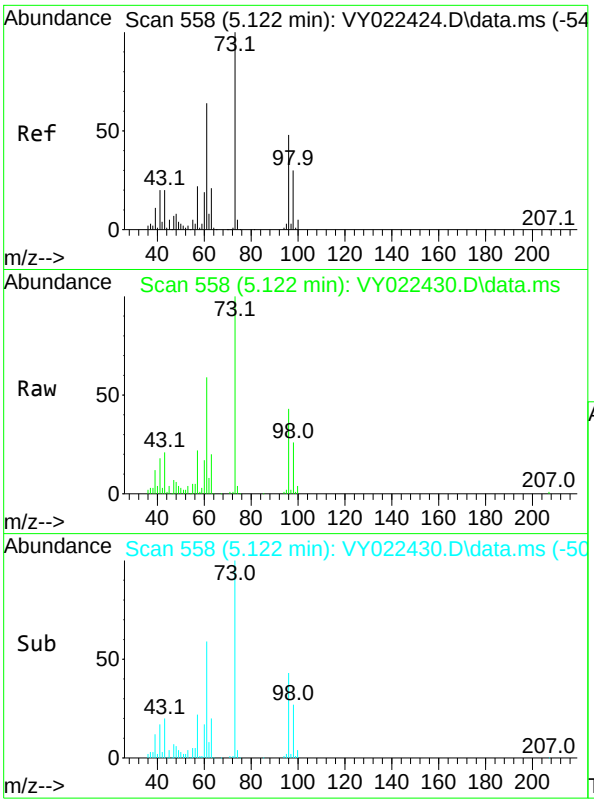


#18
Methyl Acetate
Concen: 24.412 ug/l
RT: 4.391 min Scan# 438
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 43 Resp: 36478

Ion	Ratio	Lower	Upper
43	100		
74	24.7	21.2	31.8



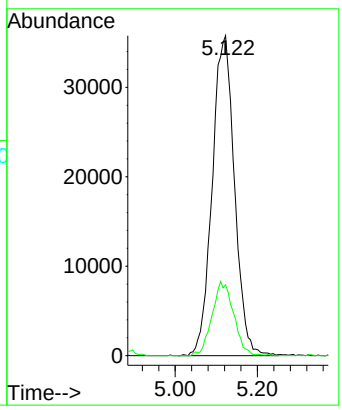


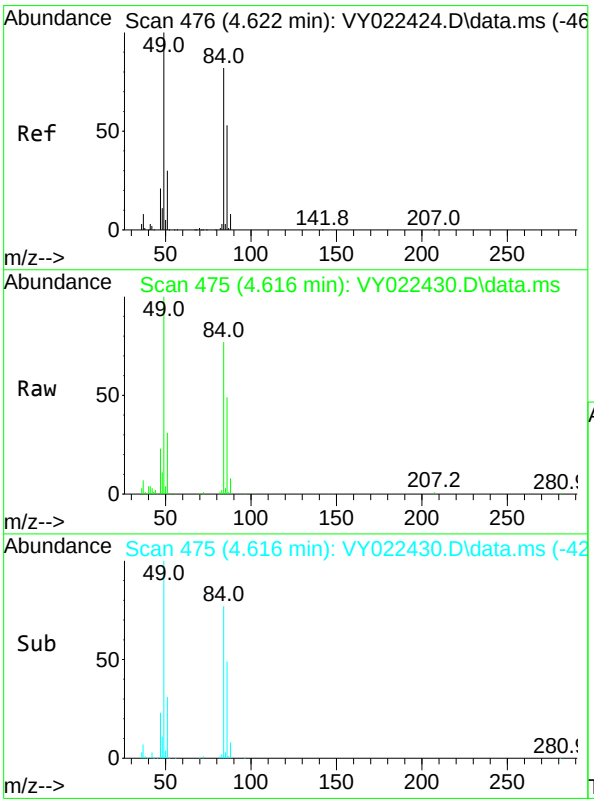
#19
Methyl tert-butyl Ether
Concen: 21.000 ug/l
RT: 5.122 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

Tgt Ion: 73 Resp: 134624

Ion	Ratio	Lower	Upper
73	100		
57	22.2	17.7	26.5

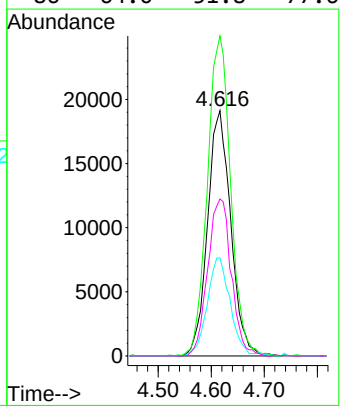


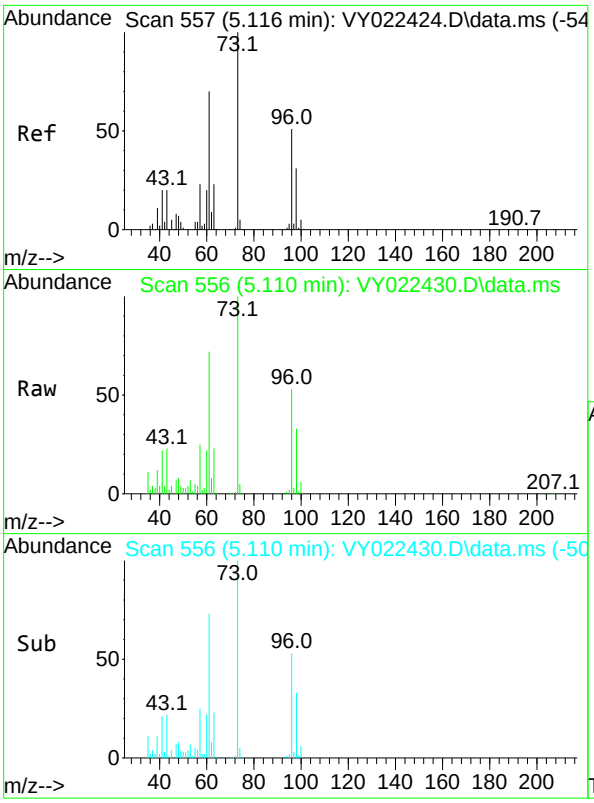


#20
Methylene Chloride
Concen: 20.660 ug/l
RT: 4.616 min Scan# 475
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 84 Resp: 58197

Ion	Ratio	Lower	Upper
84	100		
49	130.5	97.8	146.8
51	39.9	29.5	44.3
86	64.0	51.8	77.6



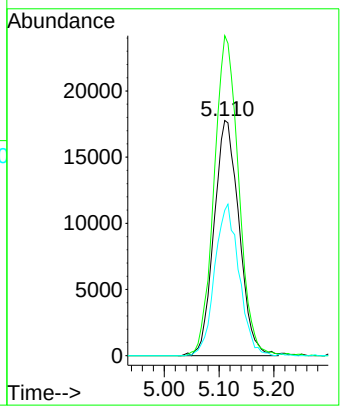


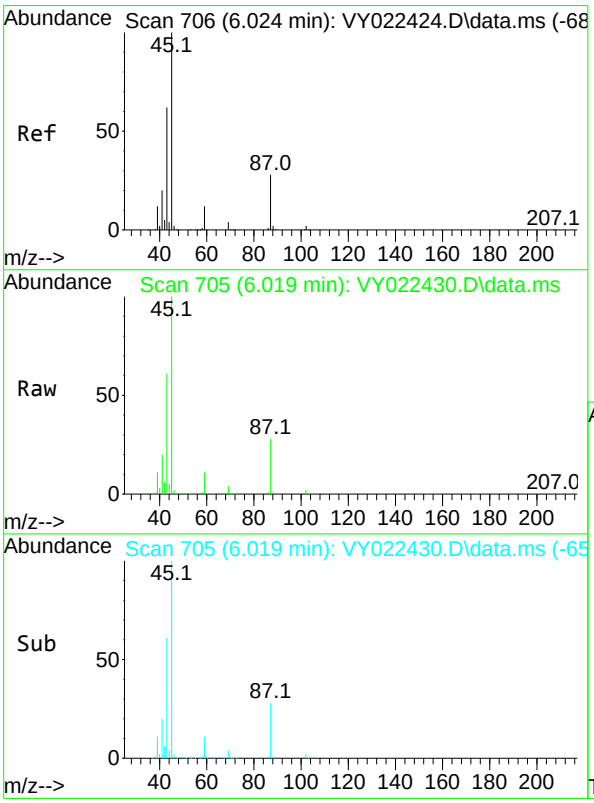
#21
trans-1,2-Dichloroethene
Concen: 21.447 ug/l
RT: 5.110 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

Tgt Ion: 96 Resp: 56538

Ion	Ratio	Lower	Upper
96	100		
61	136.1	110.4	165.6
98	61.8	48.6	73.0

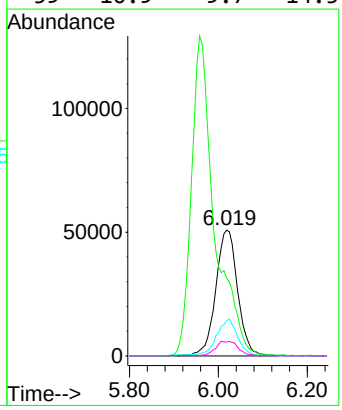


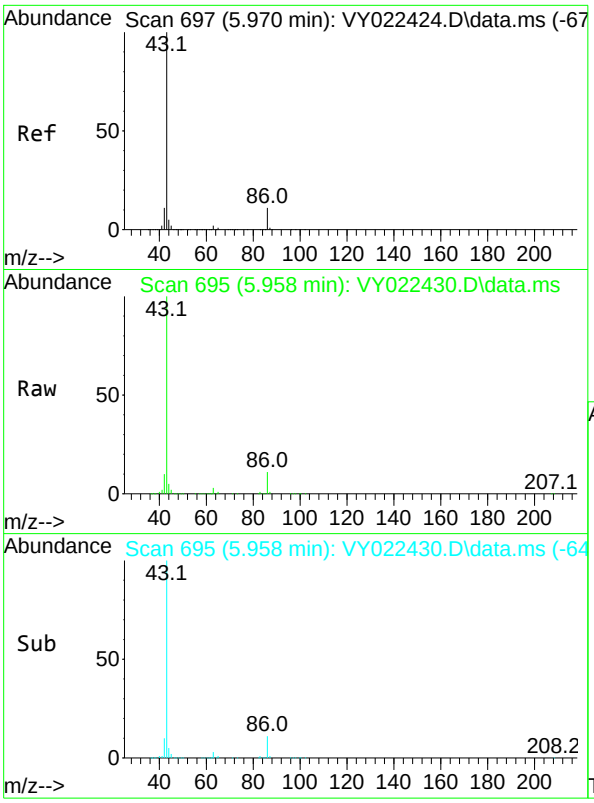


#22
Diisopropyl ether
Concen: 21.665 ug/l
RT: 6.019 min Scan# 705
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 45 Resp: 173680

Ion	Ratio	Lower	Upper
45	100		
43	60.8	49.8	74.8
87	28.0	23.0	34.6
59	10.9	9.7	14.5



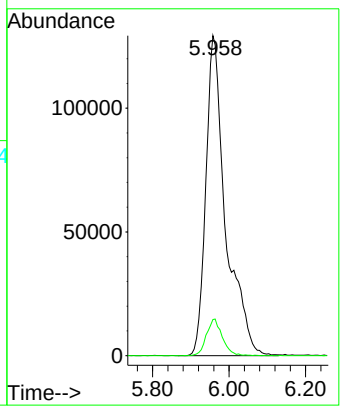


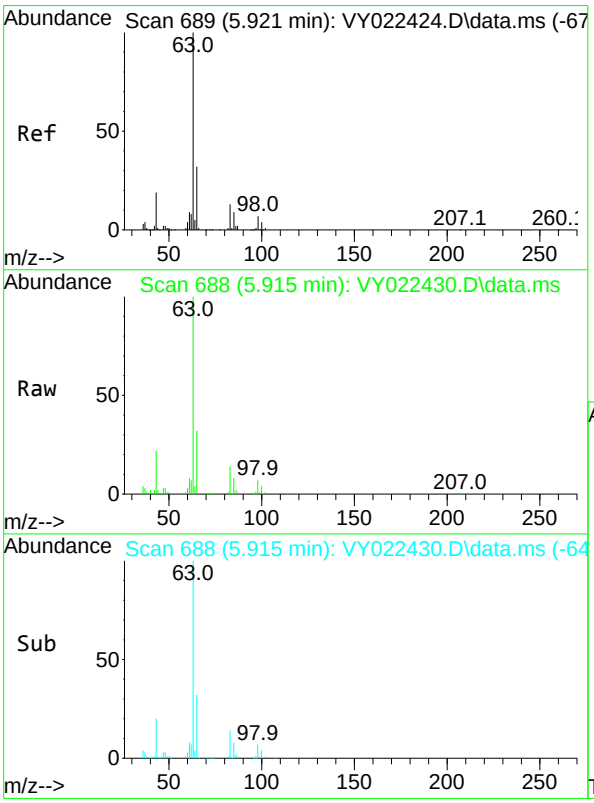
#23
Vinyl Acetate
Concen: 101.165 ug/l
RT: 5.958 min Scan# 6
Delta R.T. -0.012 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

Tgt Ion: 43 Resp: 465656

Ion	Ratio	Lower	Upper
43	100		
86	11.3	8.8	13.2

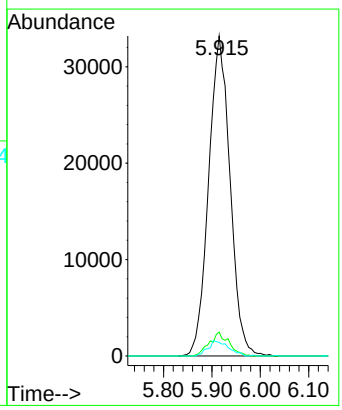


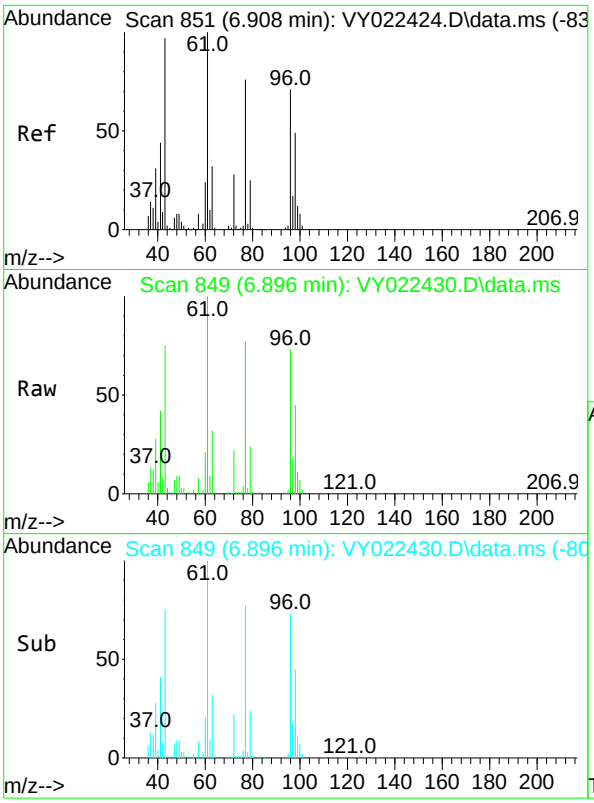


#24
1,1-Dichloroethane
Concen: 21.556 ug/l
RT: 5.915 min Scan# 688
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 63 Resp: 102108

Ion	Ratio	Lower	Upper
63	100		
98	7.4	3.5	10.5
100	4.2	2.1	6.5



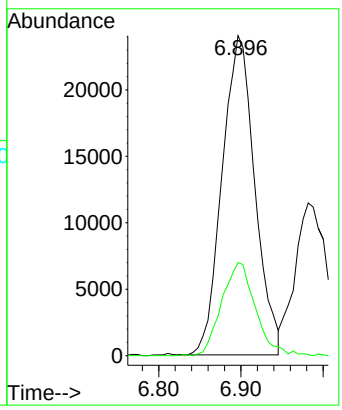


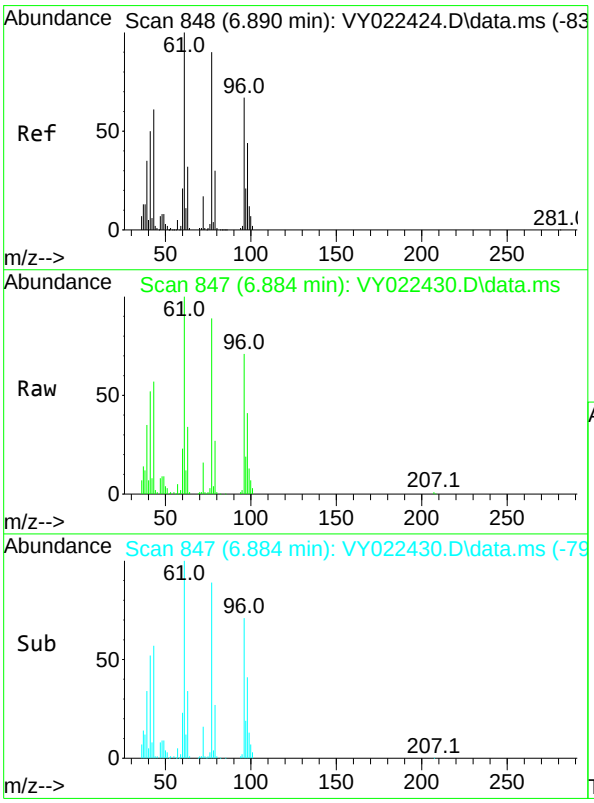
#25
2-Butanone
Concen: 100.170 ug/l
RT: 6.896 min Scan# 84
Delta R.T. -0.012 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

Tgt Ion: 43 Resp: 66547

Ion	Ratio	Lower	Upper
43	100		
72	29.2	22.8	34.2

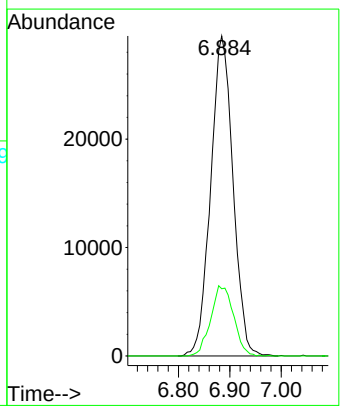


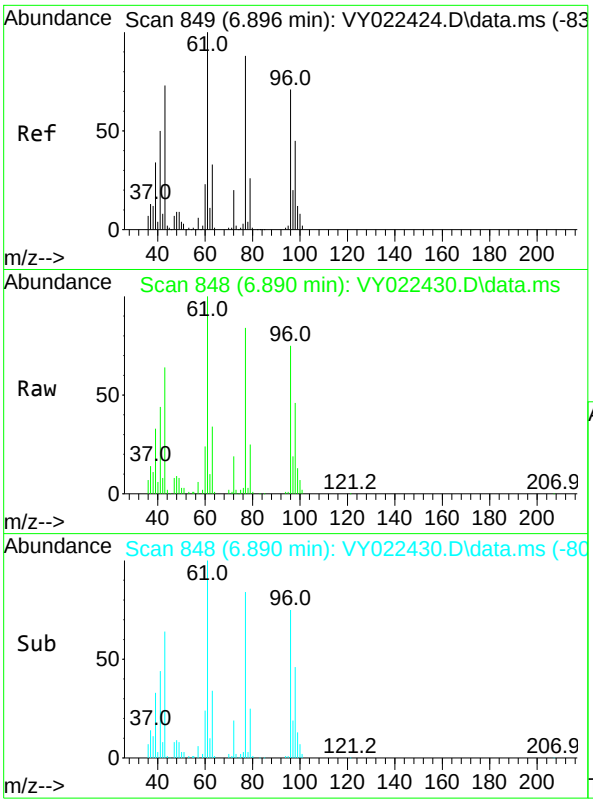


#26
2,2-Dichloropropane
Concen: 20.774 ug/l
RT: 6.884 min Scan# 847
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 77 Resp: 89103

Ion	Ratio	Lower	Upper
77	100		
97	22.5	11.6	34.7



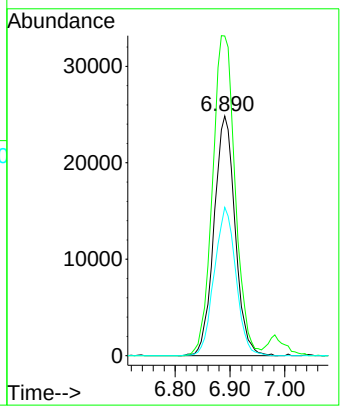


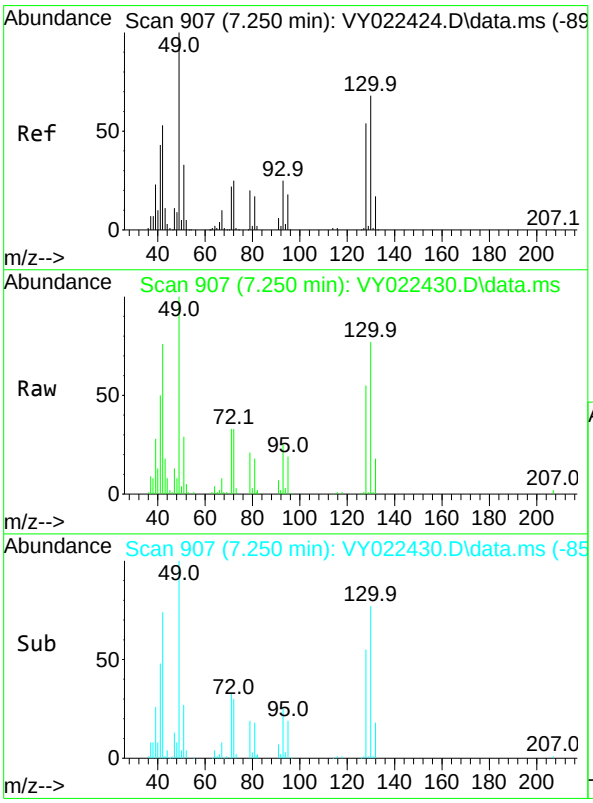
#27
cis-1,2-Dichloroethene
Concen: 21.800 ug/l
RT: 6.890 min Scan# 84
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

Tgt Ion: 96 Resp: 66528

Ion	Ratio	Lower	Upper
96	100		
61	143.2	0.0	292.0
98	63.5	0.0	131.0

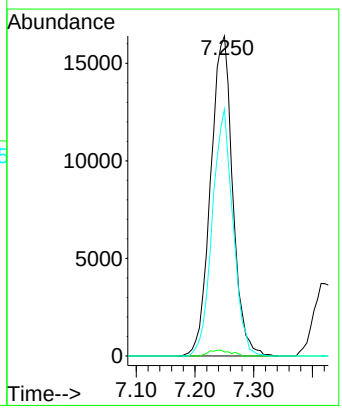


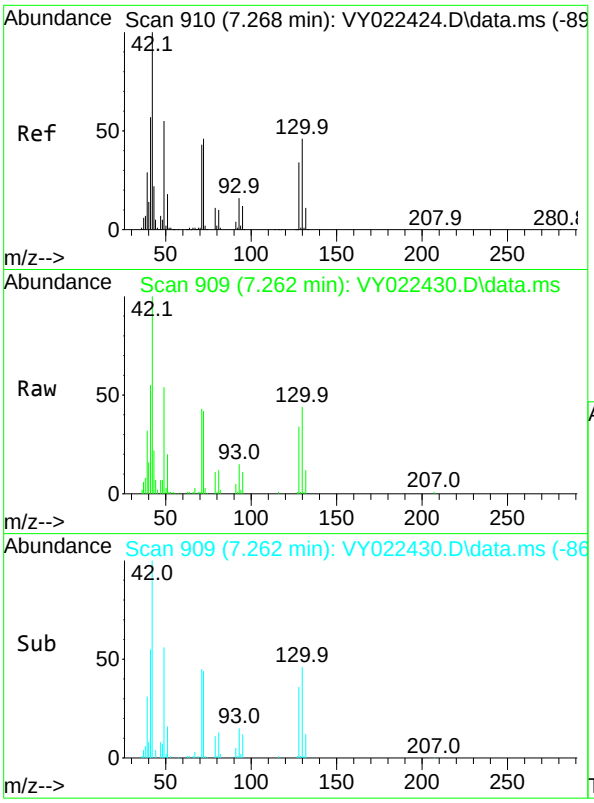


#28
Bromochloromethane
Concen: 21.586 ug/l
RT: 7.250 min Scan# 907
Delta R.T. 0.000 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 49 Resp: 42697

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	4.0
130	72.5	56.9	85.3



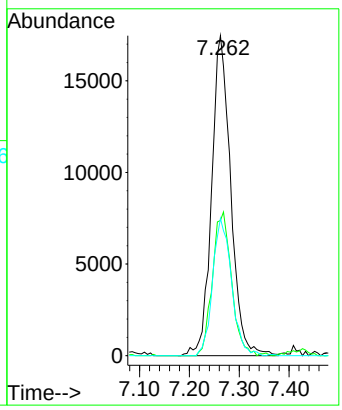


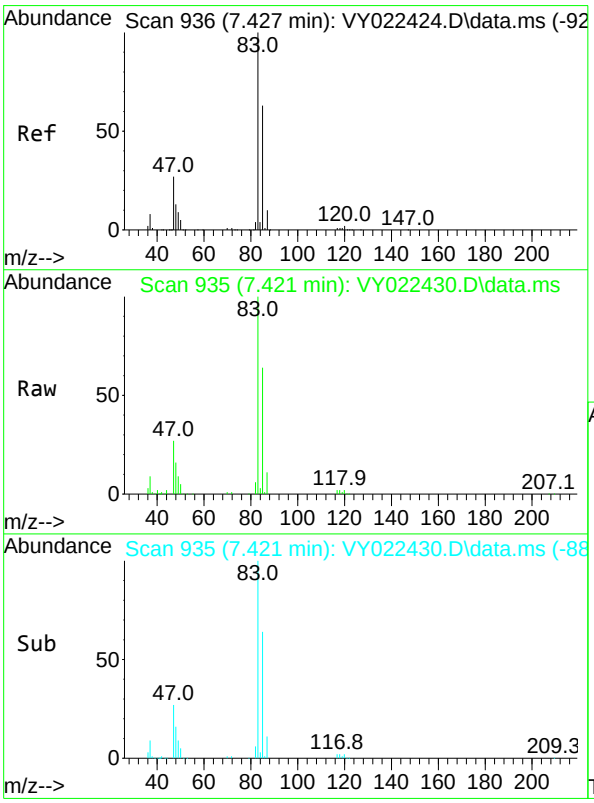
#29
Tetrahydrofuran
Concen: 105.084 ug/l
RT: 7.262 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

Tgt Ion: 42 Resp: 46559

Ion	Ratio	Lower	Upper
42	100		
72	44.6	37.7	56.5
71	42.4	34.7	52.1

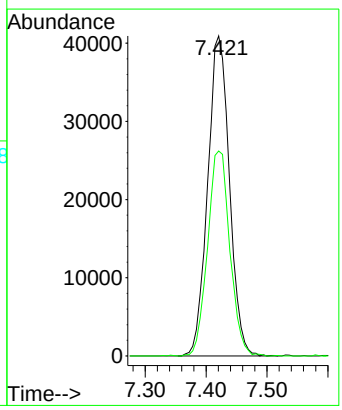


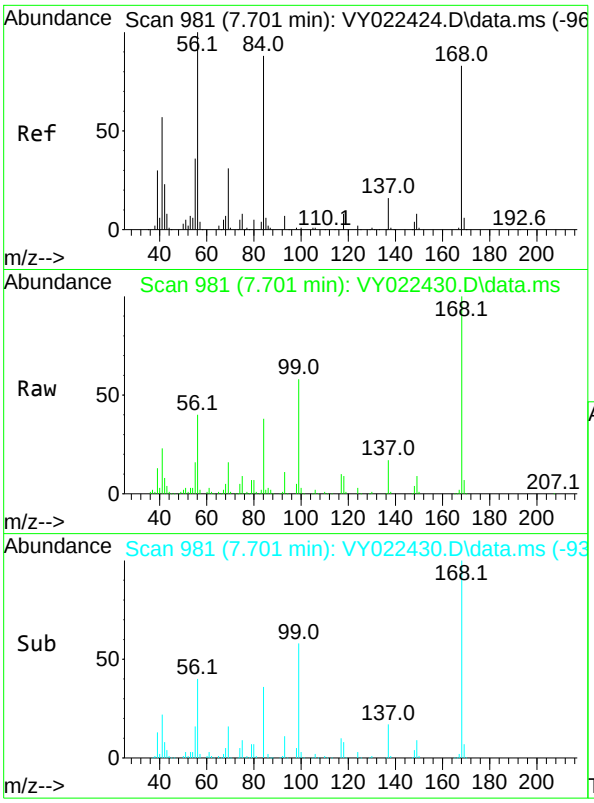


#30
Chloroform
Concen: 21.723 ug/l
RT: 7.421 min Scan# 935
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 83 Resp: 101394

Ion	Ratio	Lower	Upper
83	100		
85	64.0	50.1	75.1



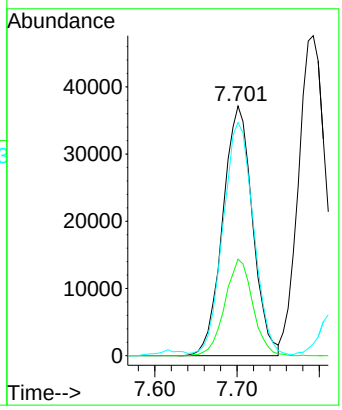


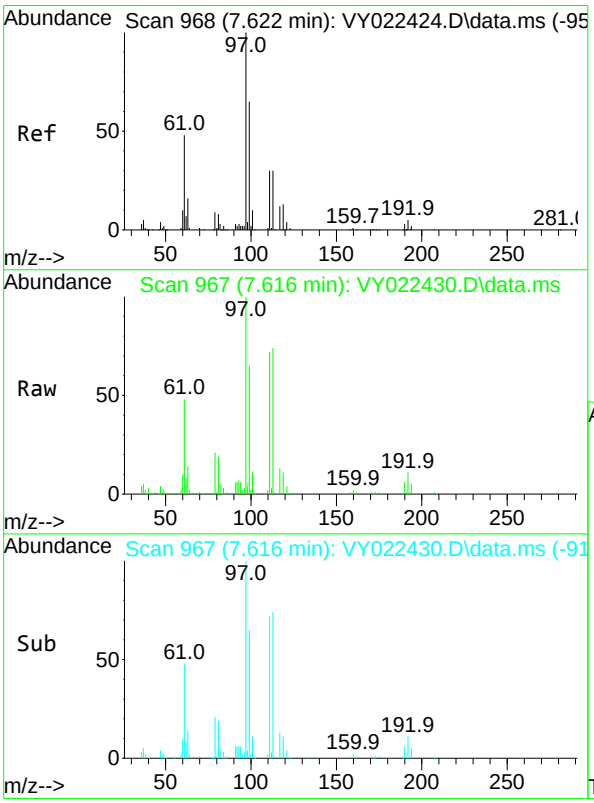
#31
Cyclohexane
Concen: 20.054 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

Tgt Ion: 56 Resp: 93643

Ion	Ratio	Lower	Upper
56	100		
69	38.6	24.6	36.8#
84	91.6	70.4	105.6

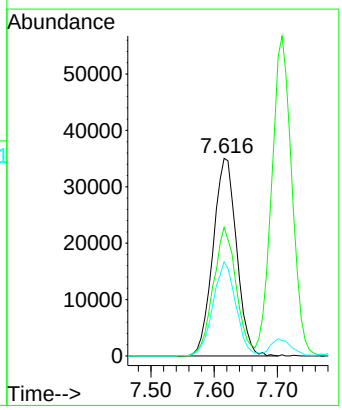


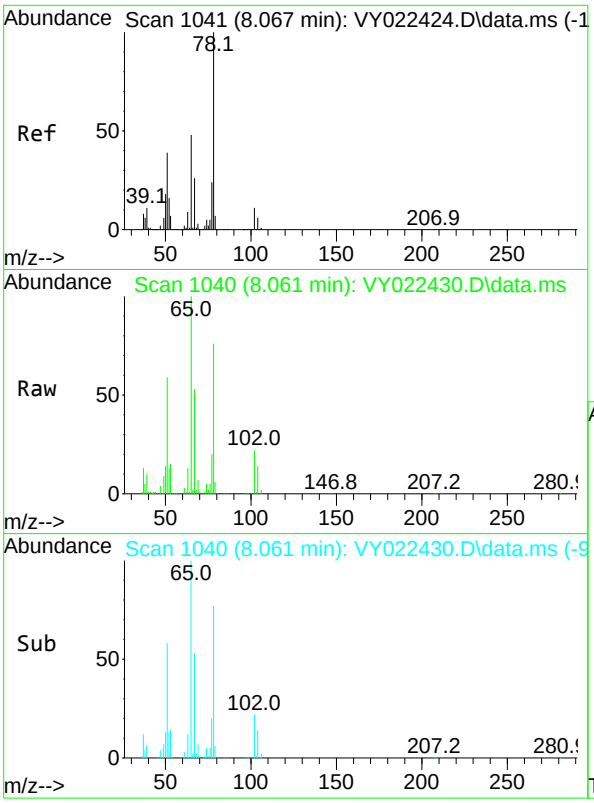


#32
1,1,1-Trichloroethane
Concen: 21.358 ug/l
RT: 7.616 min Scan# 967
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 97 Resp: 90476

Ion	Ratio	Lower	Upper
97	100		
99	63.7	51.3	76.9
61	46.6	37.3	55.9



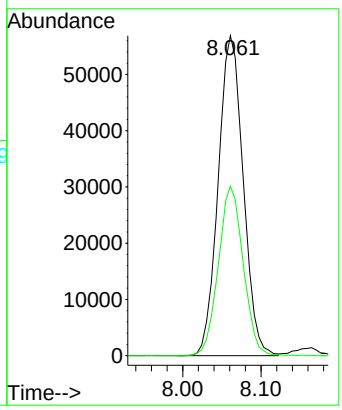


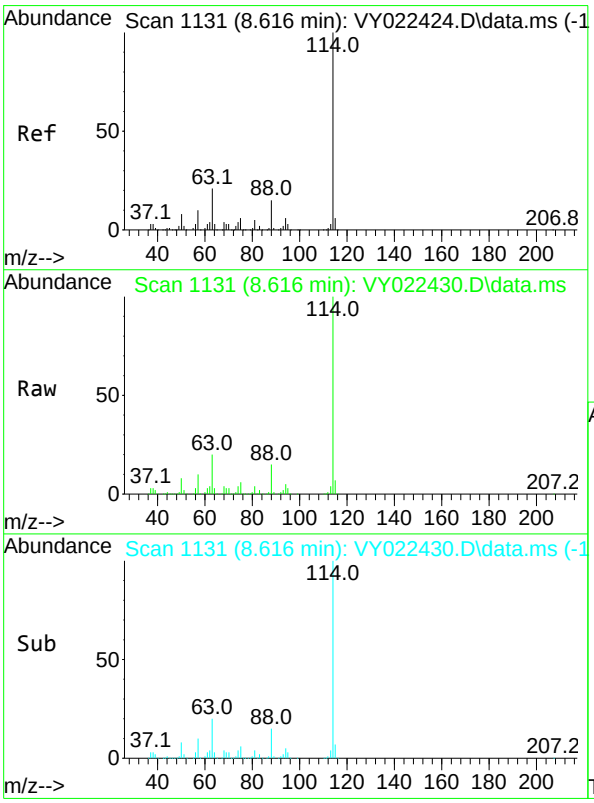
#33
1,2-Dichloroethane-d4
Concen: 51.967 ug/l
RT: 8.061 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

Tgt Ion: 65 Resp: 126153

Ion	Ratio	Lower	Upper
65	100		
67	52.5	0.0	104.4

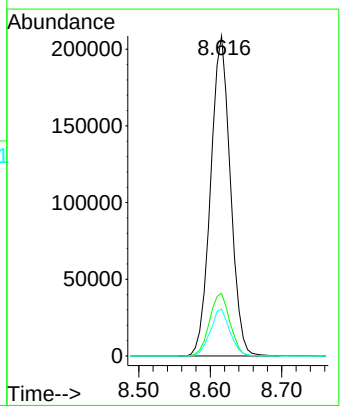


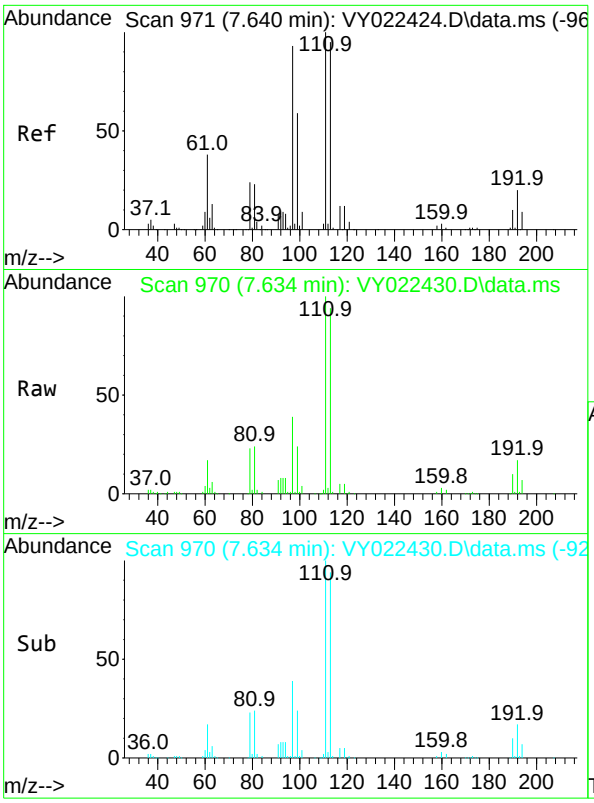


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion:114 Resp: 399143

Ion	Ratio	Lower	Upper
114	100		
63	19.6	0.0	42.6
88	14.6	0.0	29.4



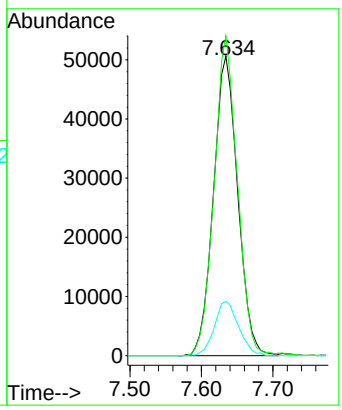


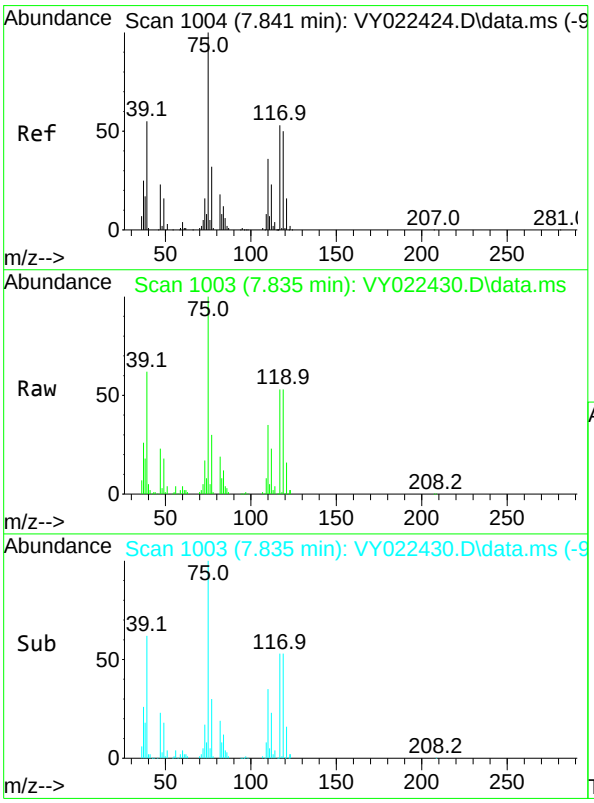
#35
Dibromofluoromethane
Concen: 51.064 ug/l
RT: 7.634 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

Tgt Ion:113 Resp: 119363

Ion	Ratio	Lower	Upper
113	100		
111	102.6	82.4	123.6
192	18.1	15.2	22.8

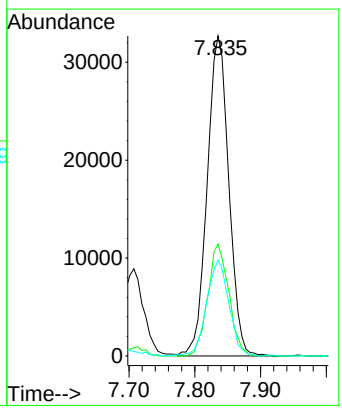


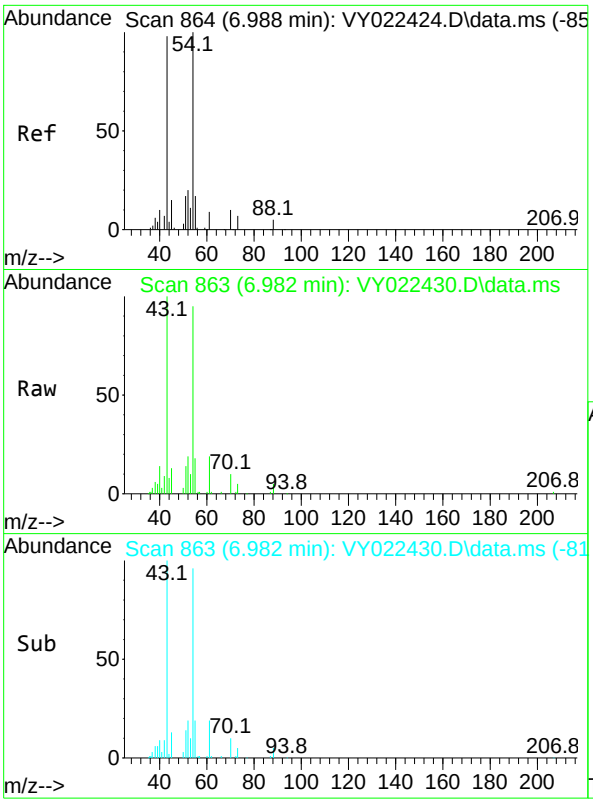


#36
1,1-Dichloropropene
Concen: 20.169 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 75 Resp: 74812

Ion	Ratio	Lower	Upper
75	100		
110	34.1	17.1	51.2
77	30.9	25.1	37.7



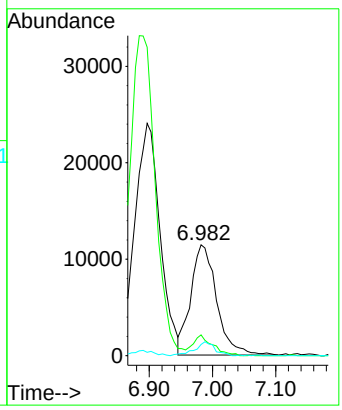


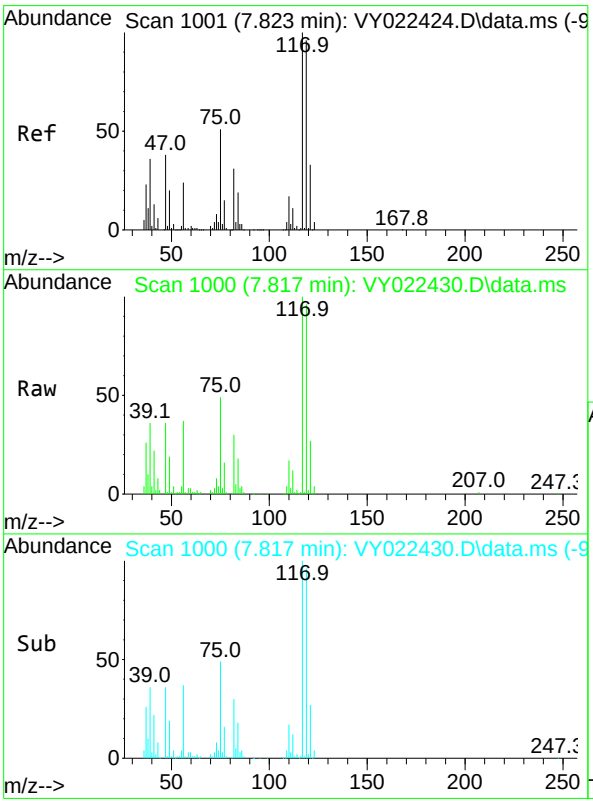
#37
Ethyl Acetate
Concen: 20.713 ug/l
RT: 6.982 min Scan# 8
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

Tgt Ion: 43 Resp: 32652

Ion	Ratio	Lower	Upper
43	100		
61	14.2	11.7	17.5
70	9.7	7.8	11.6

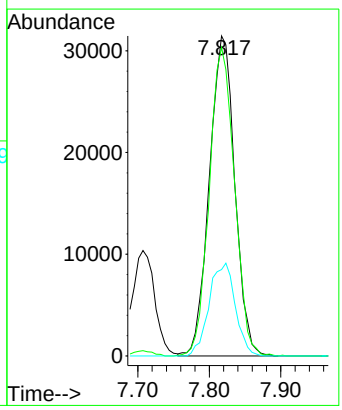


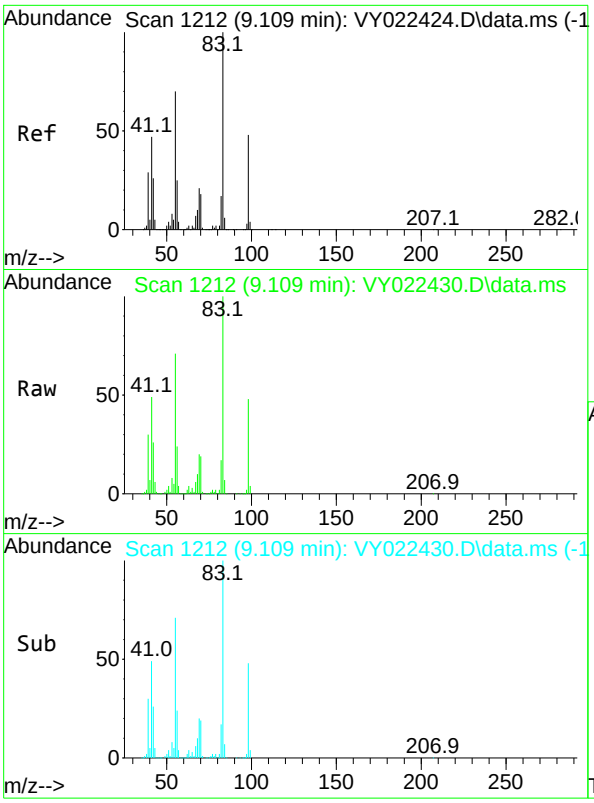


#38
Carbon Tetrachloride
Concen: 20.108 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion:117 Resp: 77697

Ion	Ratio	Lower	Upper
117	100		
119	96.4	76.3	114.5
121	27.0	26.1	39.1



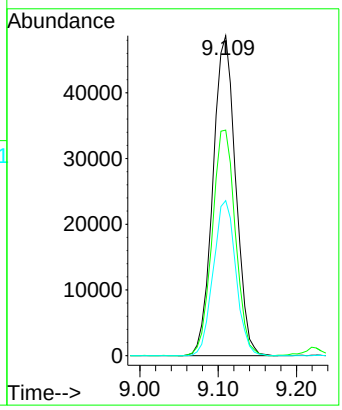


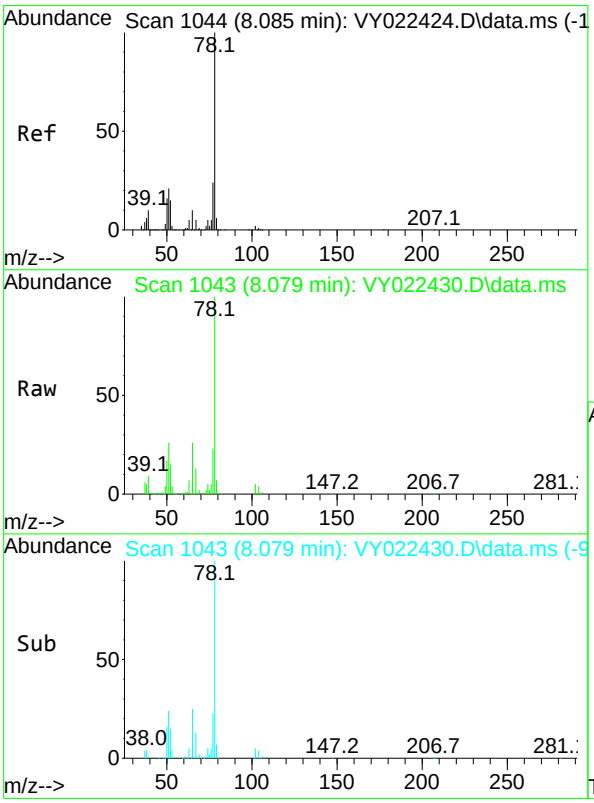
#39
Methylcyclohexane
Concen: 19.923 ug/l
RT: 9.109 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

Tgt Ion: 83 Resp: 98231

Ion	Ratio	Lower	Upper
83	100		
55	70.5	56.2	84.2
98	48.5	38.4	57.6

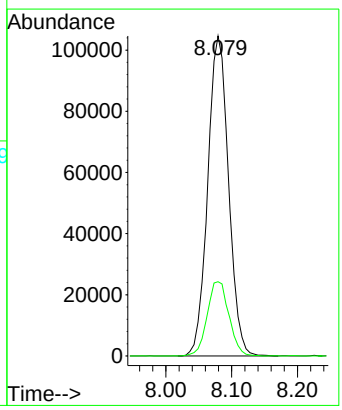


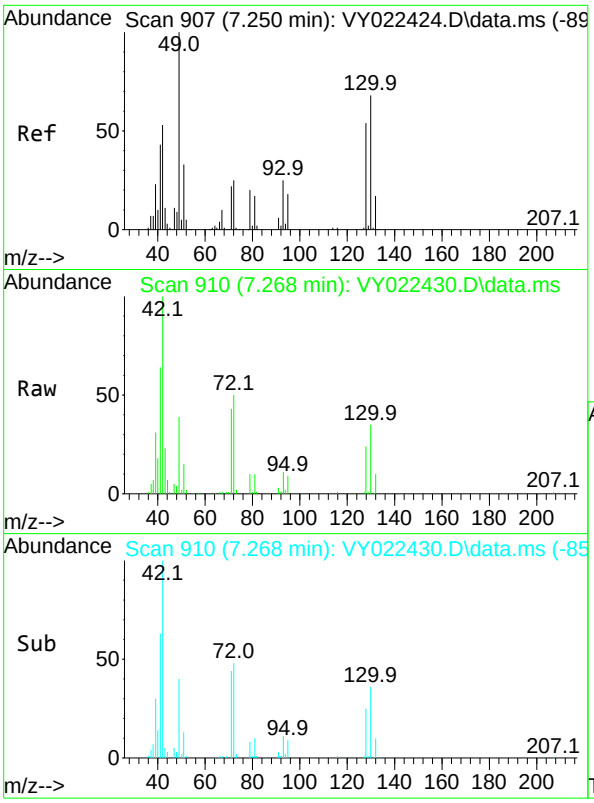


#40
Benzene
Concen: 20.851 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 78 Resp: 230138

Ion	Ratio	Lower	Upper
78	100		
77	23.2	19.4	29.2



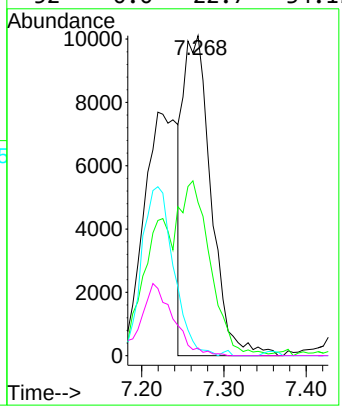


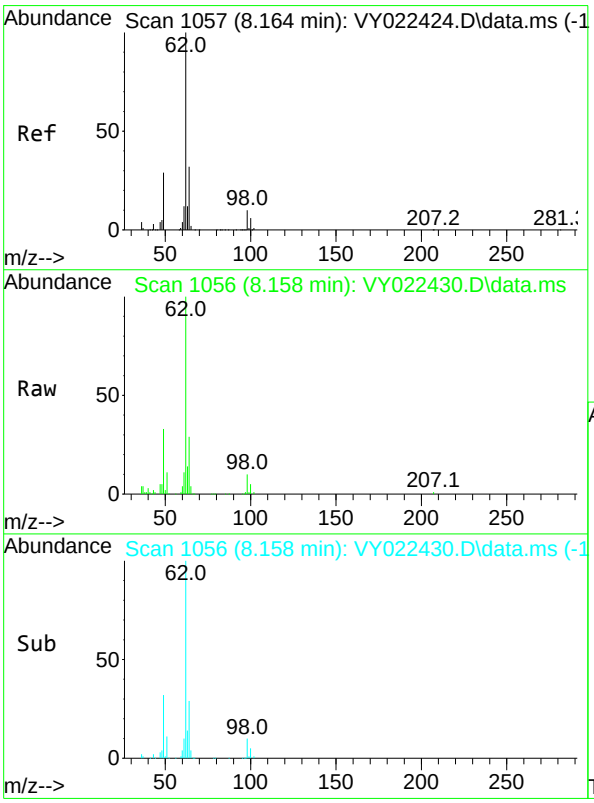
#41
Methacrylonitrile
Concen: 25.064 ug/l
RT: 7.268 min Scan# 91
Delta R.T. 0.018 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

Tgt Ion: 41 Resp: 23980

Ion	Ratio	Lower	Upper
41	100		
39	61.2	40.4	60.6#
67	0.0	53.0	79.4#
52	0.0	22.7	34.1#

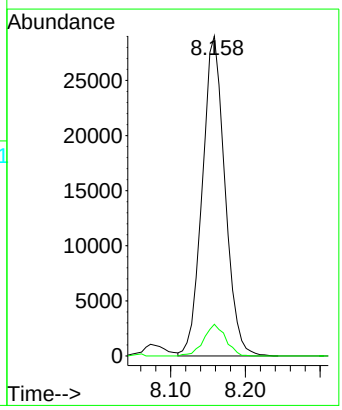


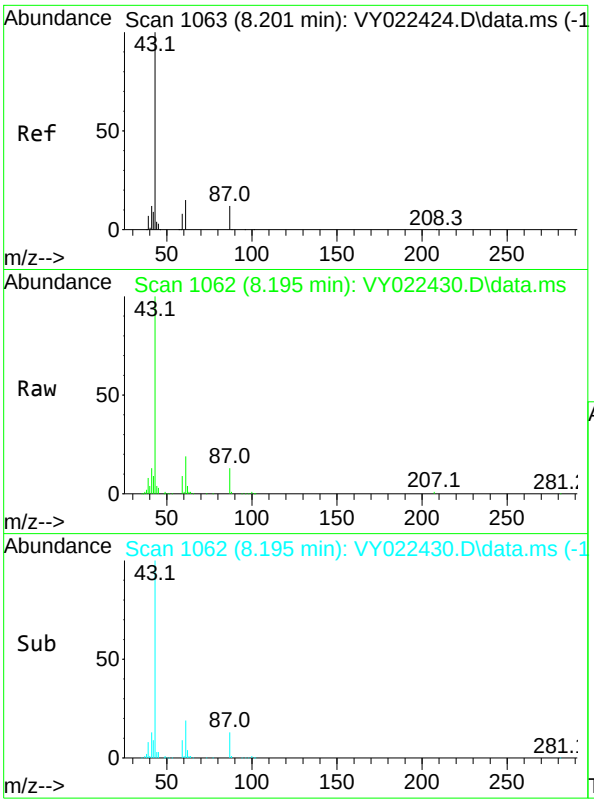


#42
1,2-Dichloroethane
Concen: 20.920 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 62 Resp: 60983

Ion	Ratio	Lower	Upper
62	100		
98	9.6	0.0	18.4



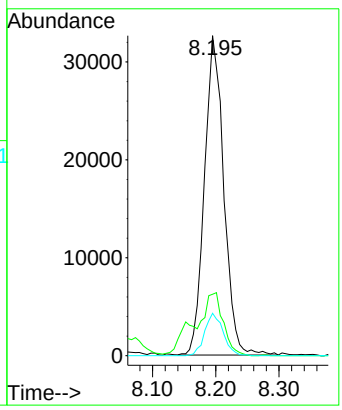


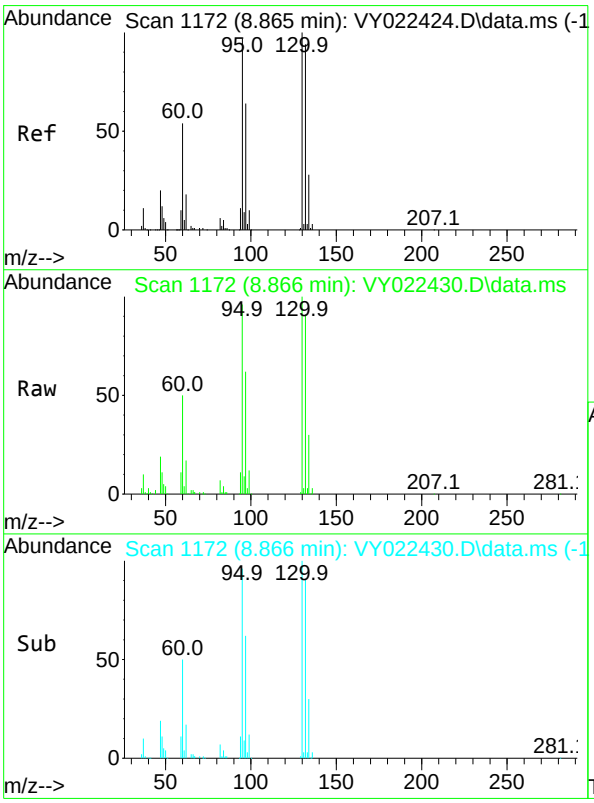
#43
Isopropyl Acetate
Concen: 20.185 ug/l
RT: 8.195 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

Tgt Ion: 43 Resp: 69531

Ion	Ratio	Lower	Upper
43	100		
61	19.8	15.4	23.0
87	12.7	10.6	15.8

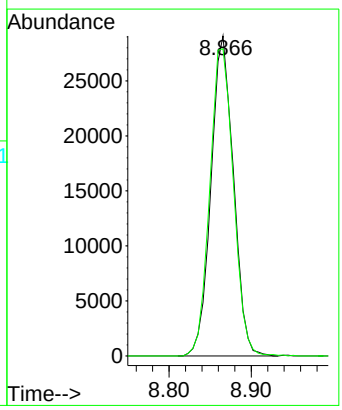


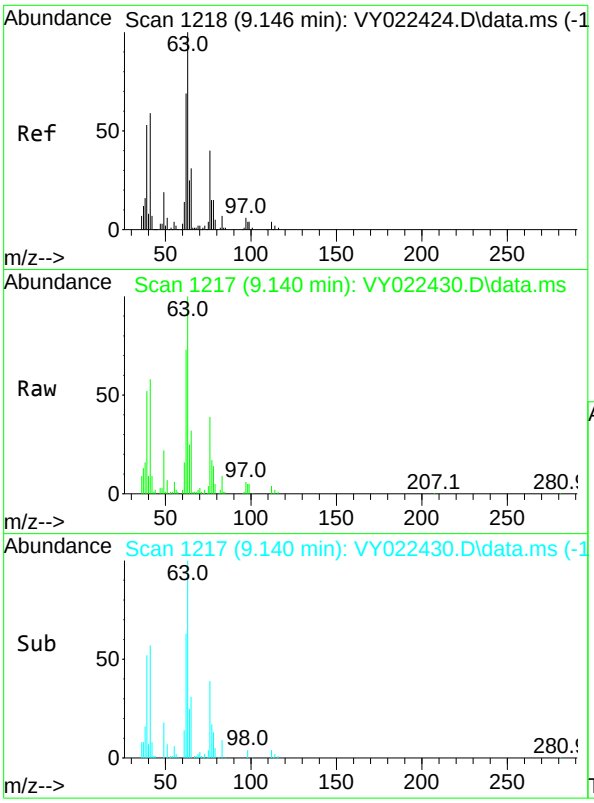


#44
Trichloroethene
Concen: 20.242 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. 0.000 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion:130 Resp: 55229

Ion	Ratio	Lower	Upper
130	100		
95	96.0	0.0	194.8



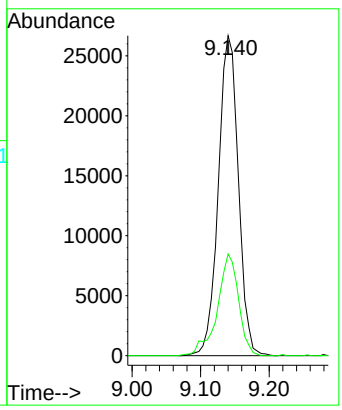


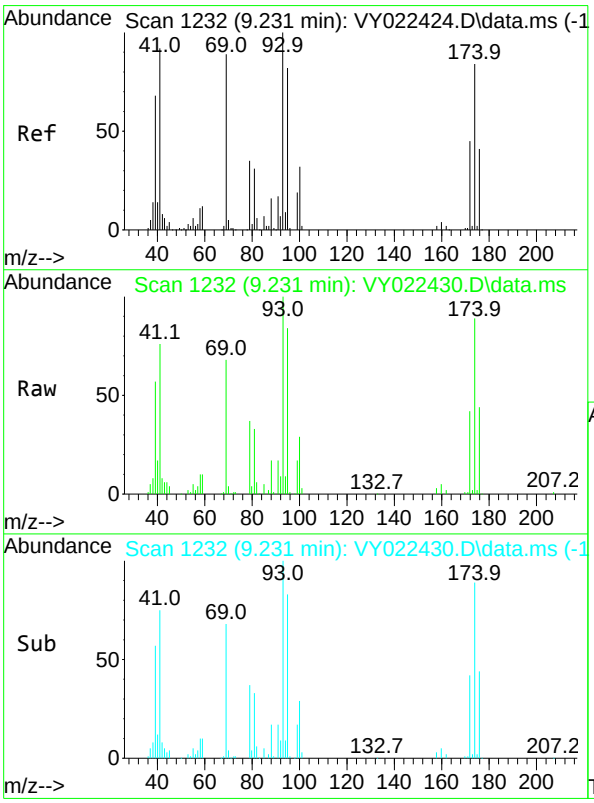
#45
1,2-Dichloropropane
Concen: 20.850 ug/l
RT: 9.140 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

Tgt Ion: 63 Resp: 54068

Ion	Ratio	Lower	Upper
63	100		
65	31.8	25.1	37.7

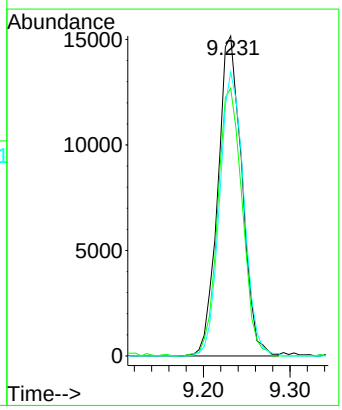


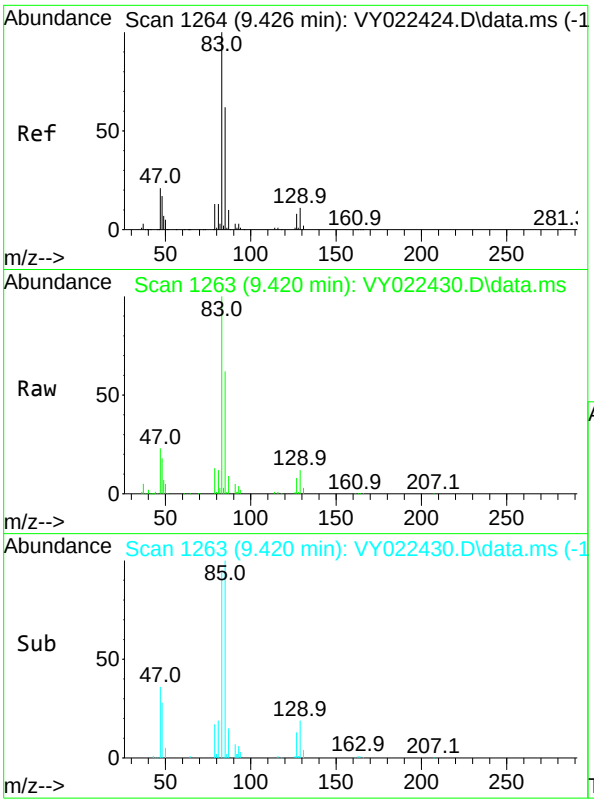


#46
Dibromomethane
Concen: 20.254 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.000 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 93 Resp: 29341

Ion	Ratio	Lower	Upper
93	100		
95	84.9	66.2	99.2
174	88.9	71.1	106.7



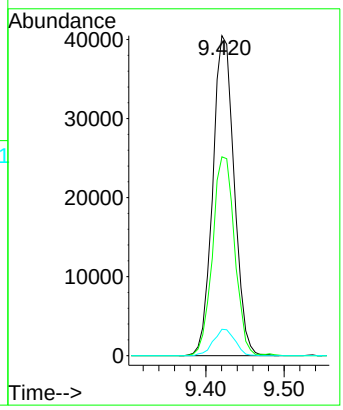


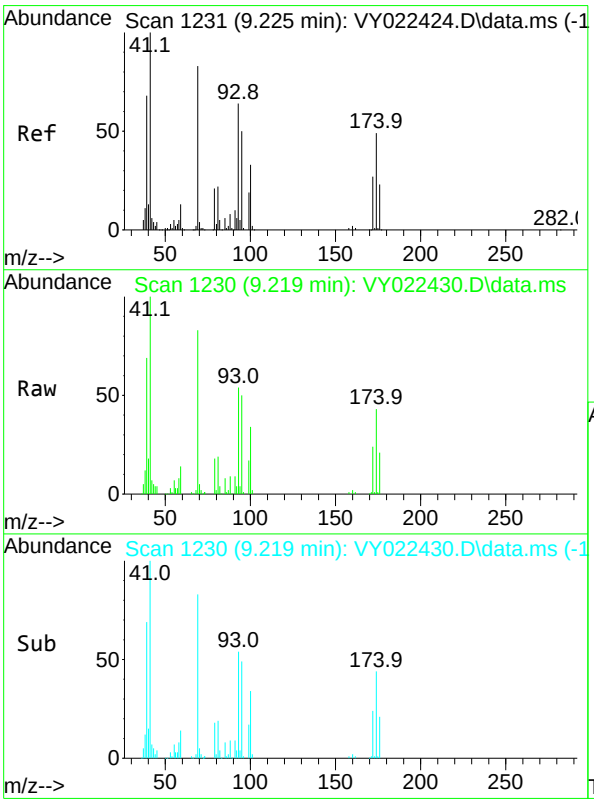
#47
Bromodichloromethane
Concen: 20.656 ug/l
RT: 9.420 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

Tgt Ion: 83 Resp: 76948

Ion	Ratio	Lower	Upper
83	100		
85	62.1	49.8	74.6
127	8.3	6.6	9.8

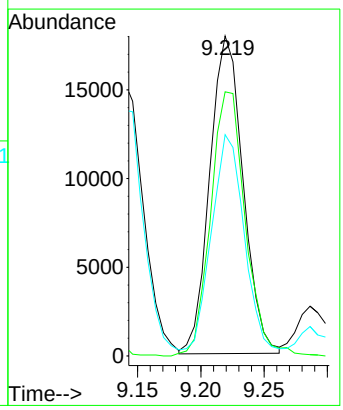


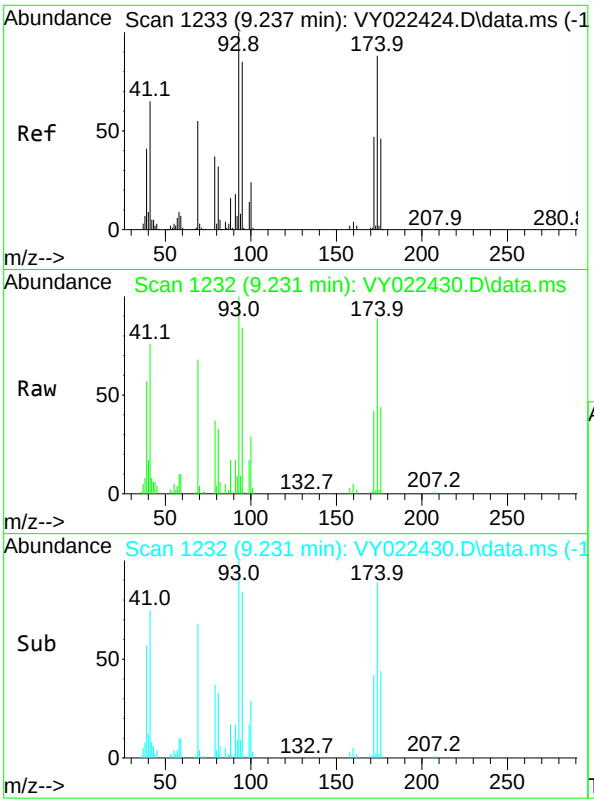


#48
Methyl methacrylate
Concen: 20.495 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 41 Resp: 32772

Ion	Ratio	Lower	Upper
41	100		
69	86.7	70.3	105.5
39	66.0	55.4	83.0



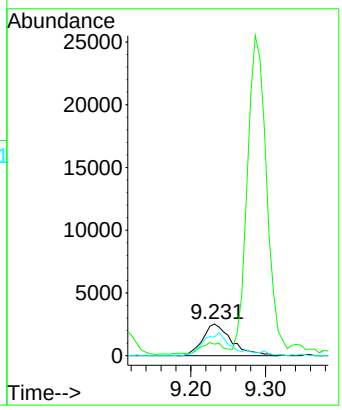


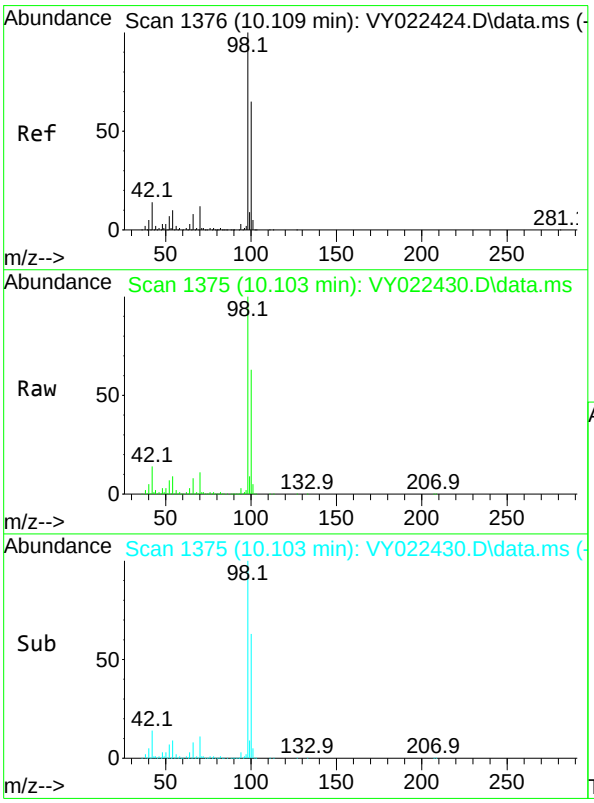
#49
1,4-Dioxane
Concen: 421.110 ug/l
RT: 9.231 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

Tgt Ion: 88 Resp: 6738

Ion	Ratio	Lower	Upper
88	100		
43	26.0	26.9	40.3#
58	68.9	55.8	83.6

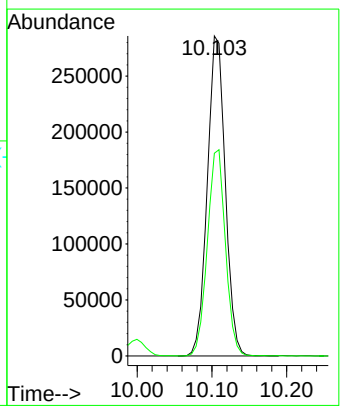


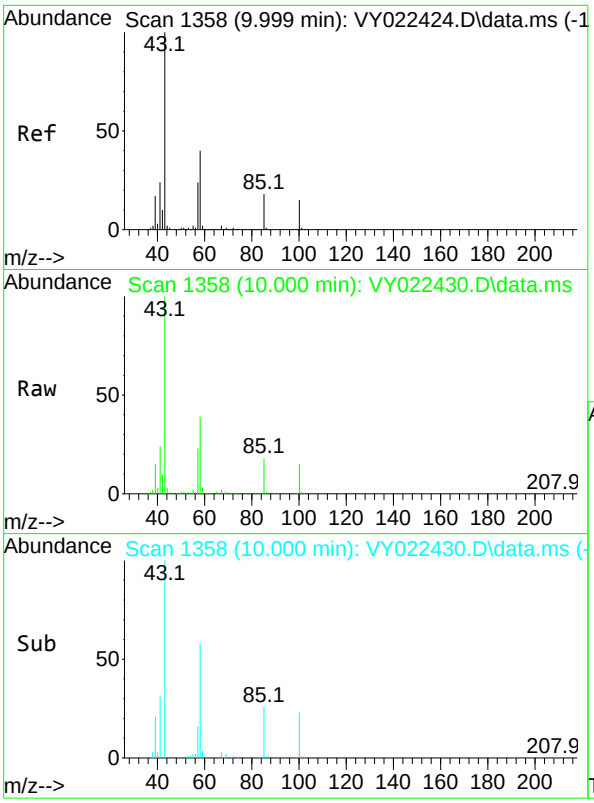


#50
Toluene-d8
Concen: 50.229 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 98 Resp: 478633

Ion	Ratio	Lower	Upper
98	100		
100	64.8	52.2	78.2



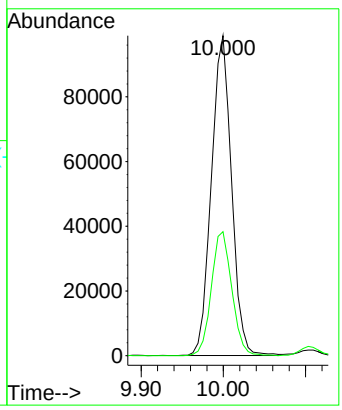


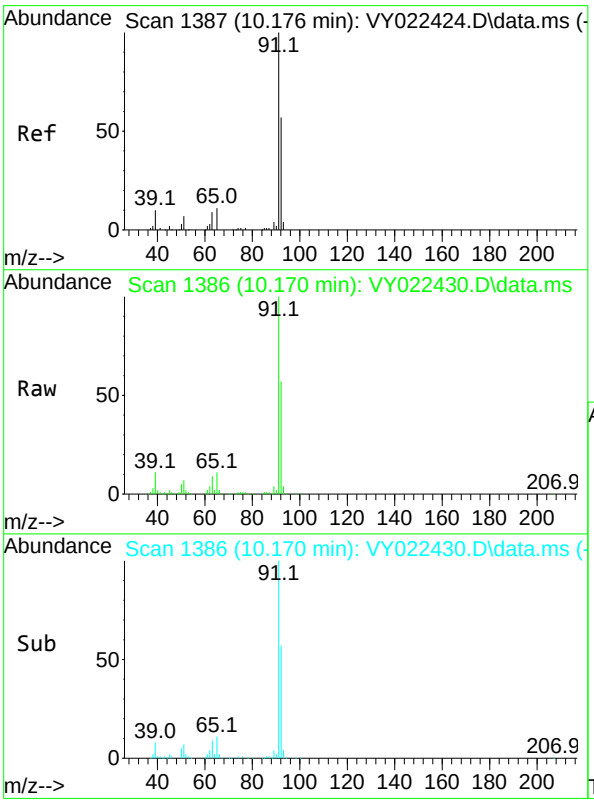
#51
4-Methyl-2-Pentanone
Concen: 99.209 ug/l
RT: 10.000 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

Tgt Ion: 43 Resp: 168616

Ion	Ratio	Lower	Upper
43	100		
58	39.4	31.2	46.8

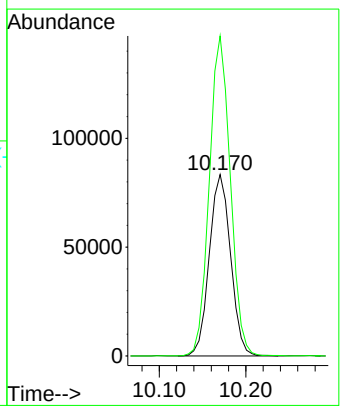


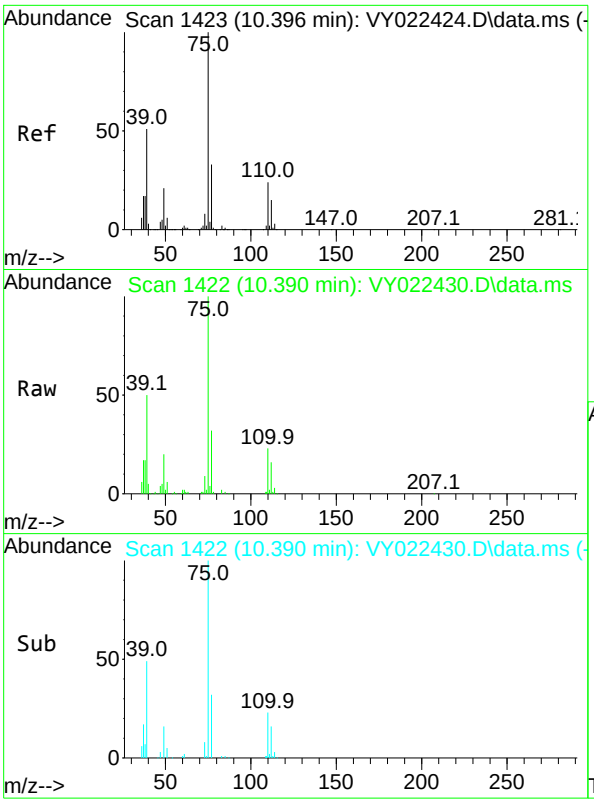


#52
Toluene
Concen: 20.644 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 92 Resp: 142314

Ion	Ratio	Lower	Upper
92	100		
91	174.3	139.8	209.6



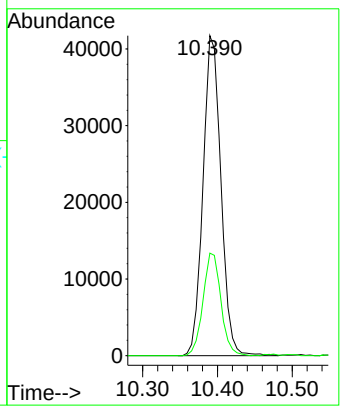


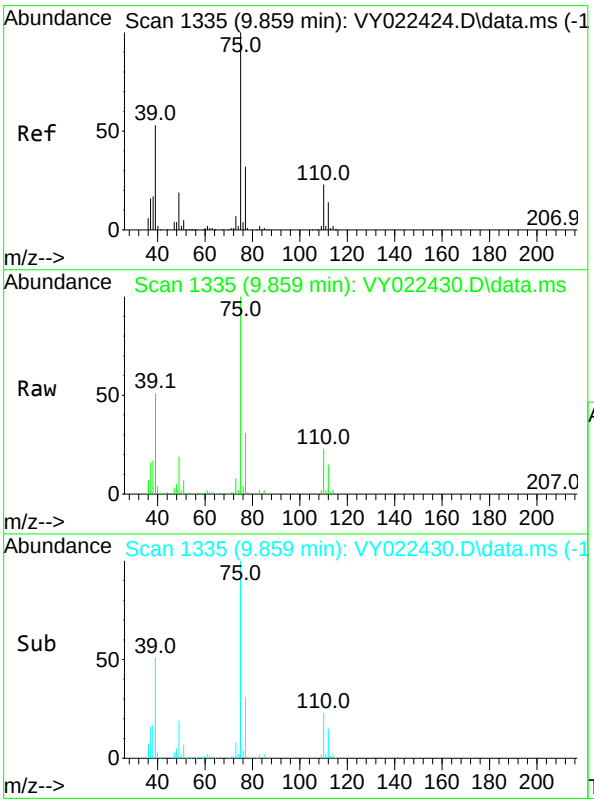
#53
t-1,3-Dichloropropene
Concen: 20.054 ug/l
RT: 10.390 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

Tgt Ion: 75 Resp: 69585

Ion	Ratio	Lower	Upper
75	100		
77	32.1	26.2	39.2

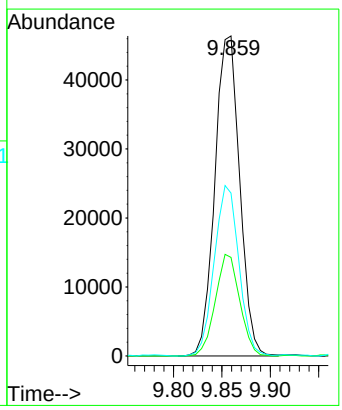


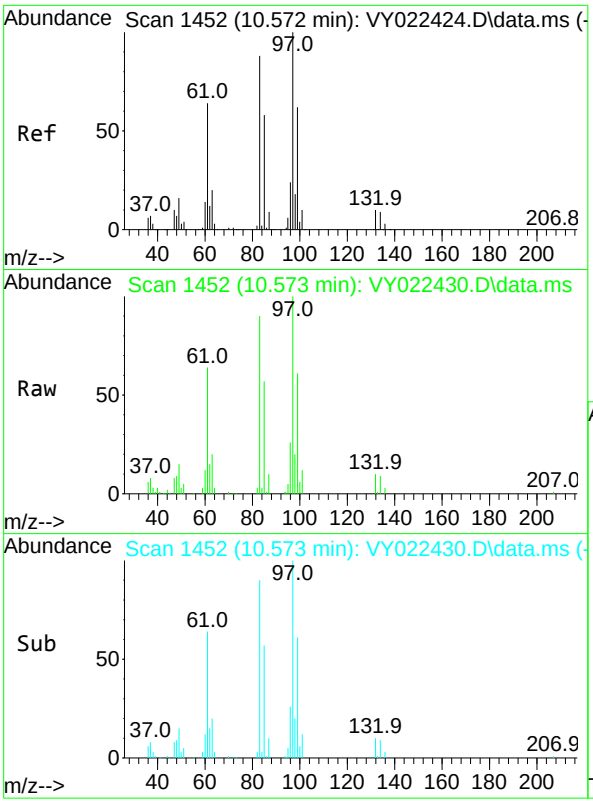


#54
cis-1,3-Dichloropropene
Concen: 20.276 ug/l
RT: 9.859 min Scan# 1335
Delta R.T. 0.000 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 75 Resp: 82670

Ion	Ratio	Lower	Upper
75	100		
77	30.8	25.4	38.2
39	50.9	42.5	63.7



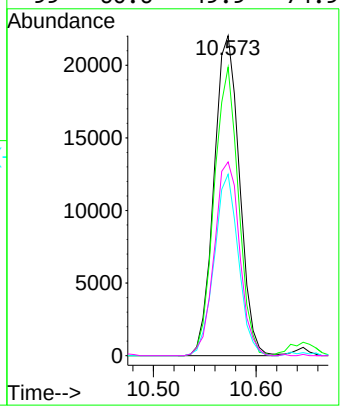


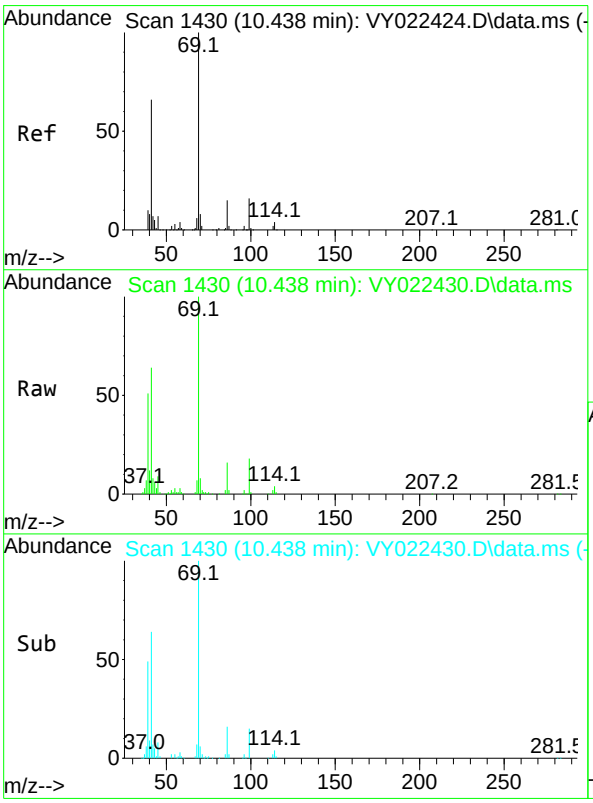
#55
1,1,2-Trichloroethane
Concen: 20.663 ug/l
RT: 10.573 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

Tgt Ion: 97 Resp: 37845

Ion	Ratio	Lower	Upper
97	100		
83	90.1	70.2	105.4
85	56.7	46.1	69.1
99	60.6	49.9	74.9

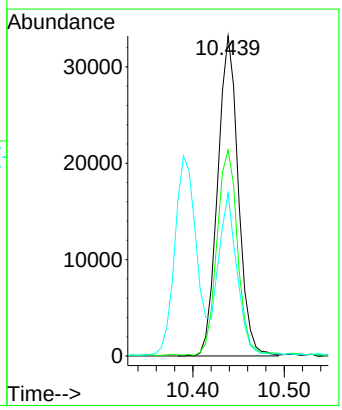


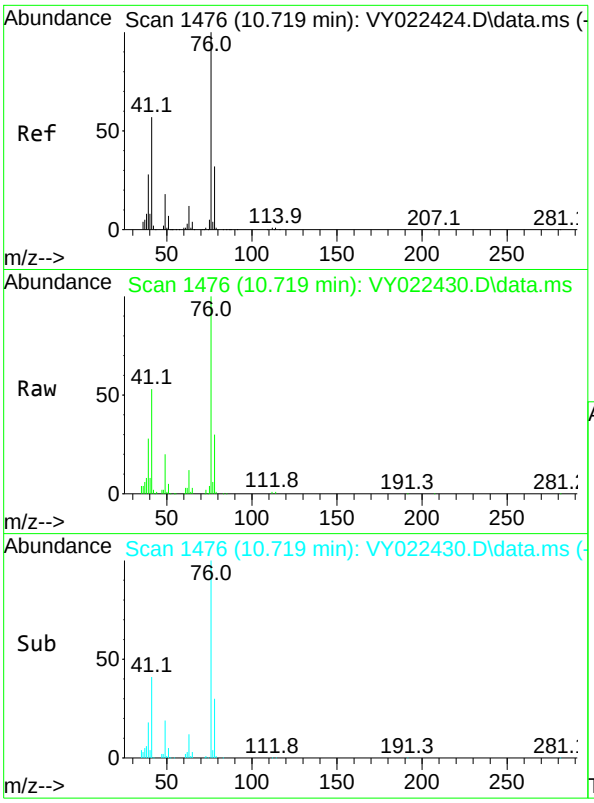


#56
Ethyl methacrylate
Concen: 19.796 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 69 Resp: 52031

Ion	Ratio	Lower	Upper
69	100		
41	63.9	51.2	76.8
39	43.4	35.2	52.8



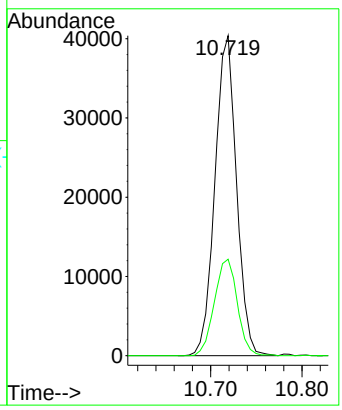


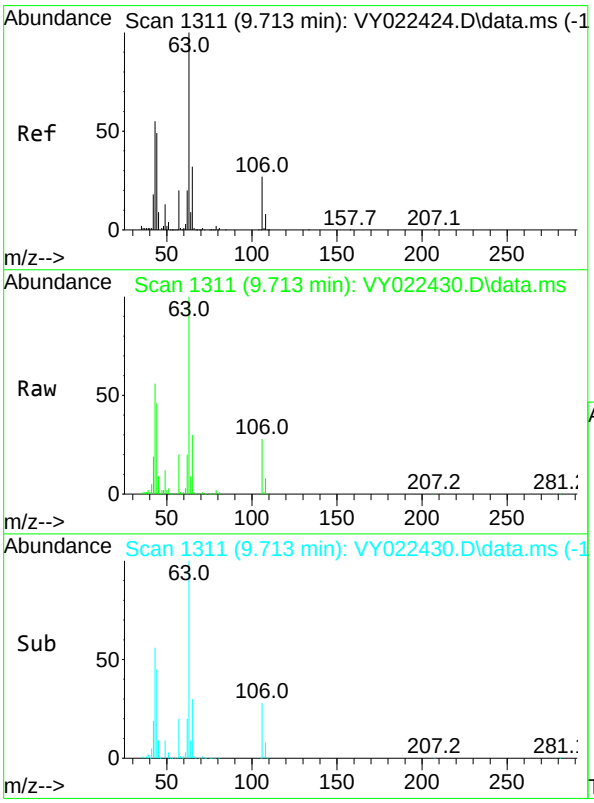
#57
1,3-Dichloropropane
Concen: 20.537 ug/l
RT: 10.719 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

Tgt Ion: 76 Resp: 66285

Ion	Ratio	Lower	Upper
76	100		
78	32.0	25.8	38.8

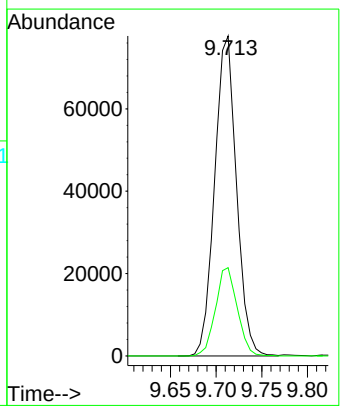


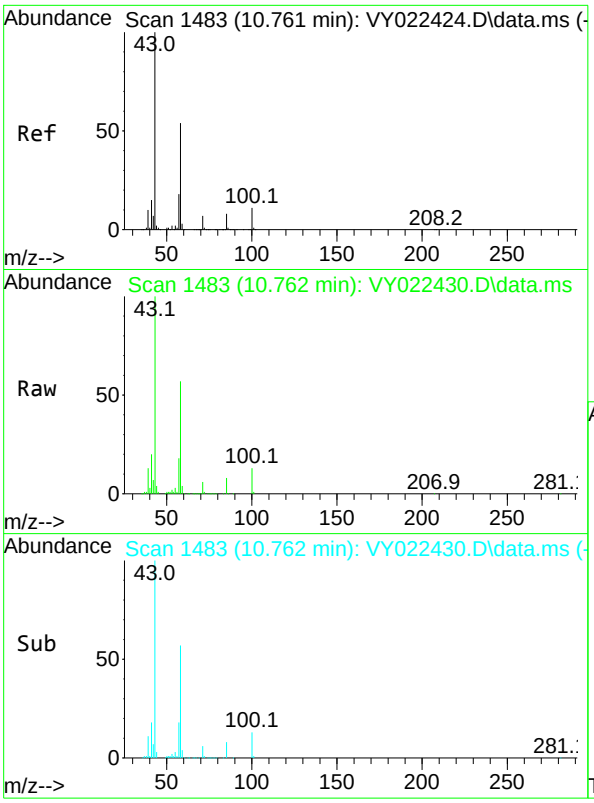


#58
2-Chloroethyl Vinyl ether
Concen: 98.573 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. 0.000 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 63 Resp: 129124

Ion	Ratio	Lower	Upper
63	100		
106	27.5	22.2	33.2



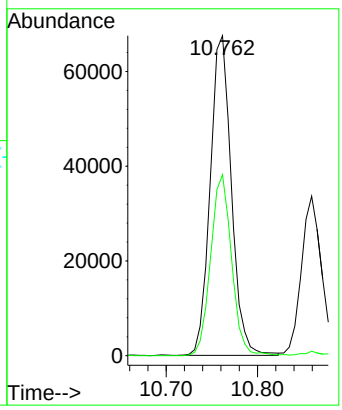


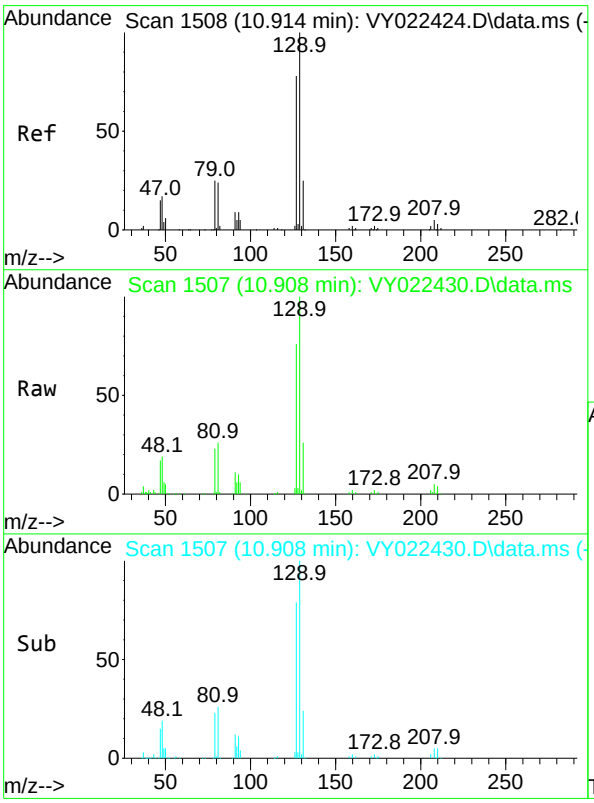
#59
2-Hexanone
Concen: 97.487 ug/l
RT: 10.762 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

Tgt Ion: 43 Resp: 108584

Ion	Ratio	Lower	Upper
43	100		
58	56.0	27.1	81.2

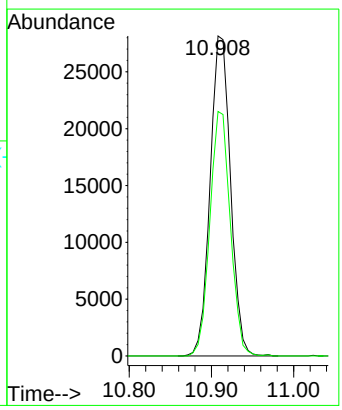


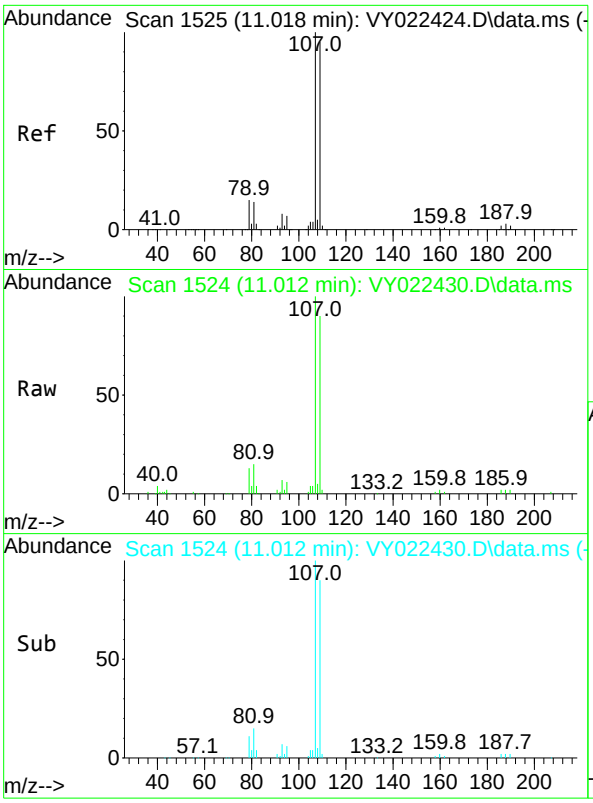


#60
Dibromochloromethane
Concen: 20.669 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion:129 Resp: 48358

Ion	Ratio	Lower	Upper
129	100		
127	76.7	38.3	114.8



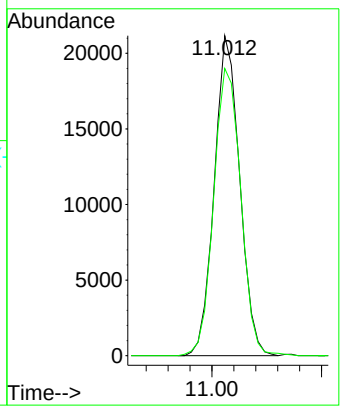


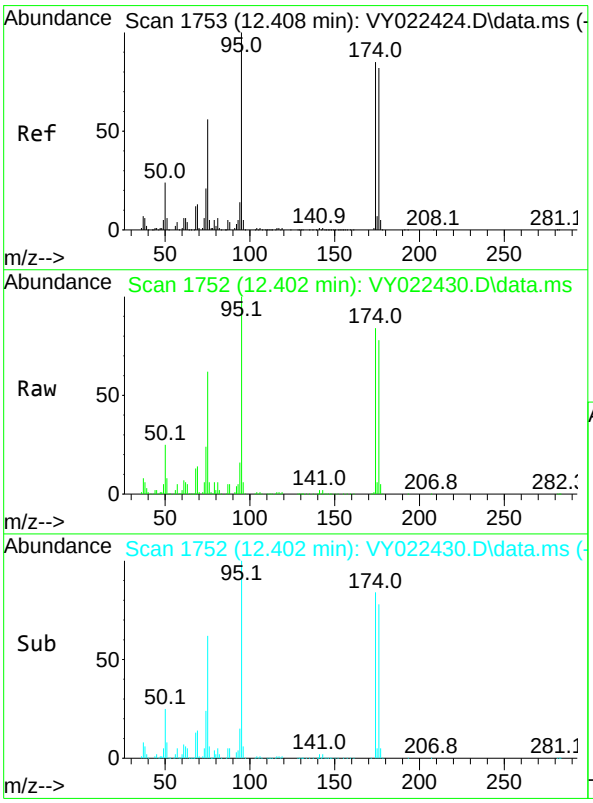
#61
1,2-Dibromoethane
Concen: 20.330 ug/l
RT: 11.012 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

Tgt Ion:107 Resp: 34056

Ion	Ratio	Lower	Upper
107	100		
109	95.7	74.0	111.0

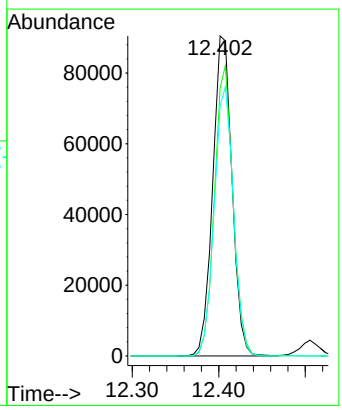


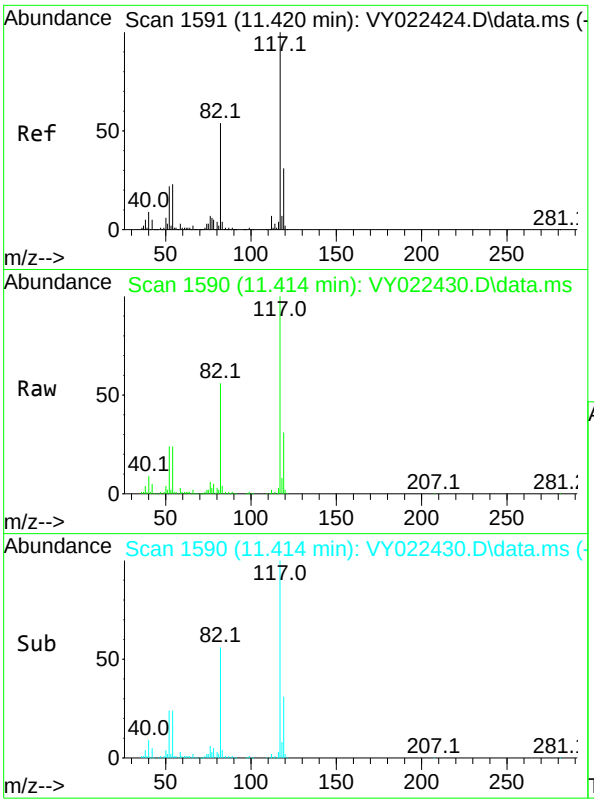


#62
4-Bromofluorobenzene
Concen: 48.553 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 95 Resp: 139946

Ion	Ratio	Lower	Upper
95	100		
174	87.5	0.0	171.6
176	83.6	0.0	164.6



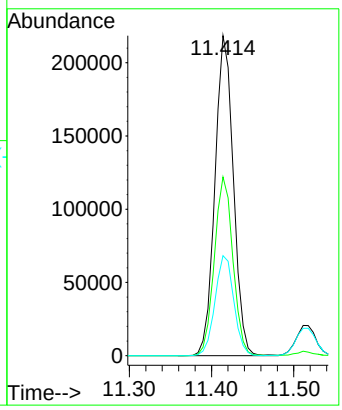


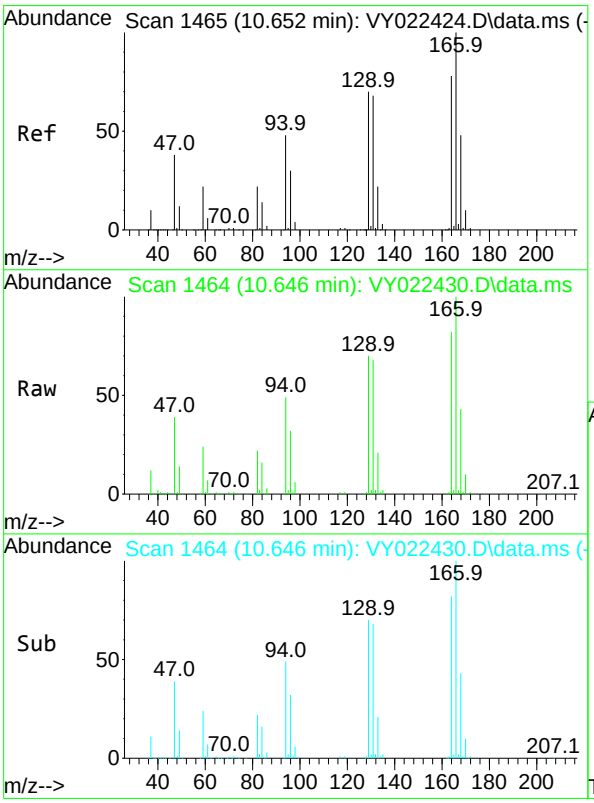
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

Tgt Ion:117 Resp: 340460

Ion	Ratio	Lower	Upper
117	100		
82	55.9	43.3	64.9
119	31.2	24.5	36.7

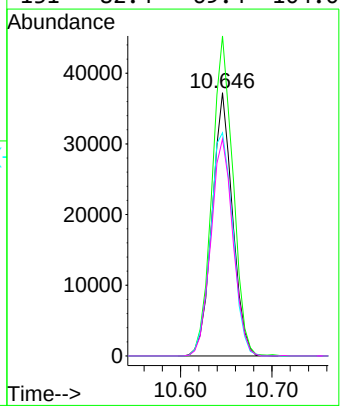


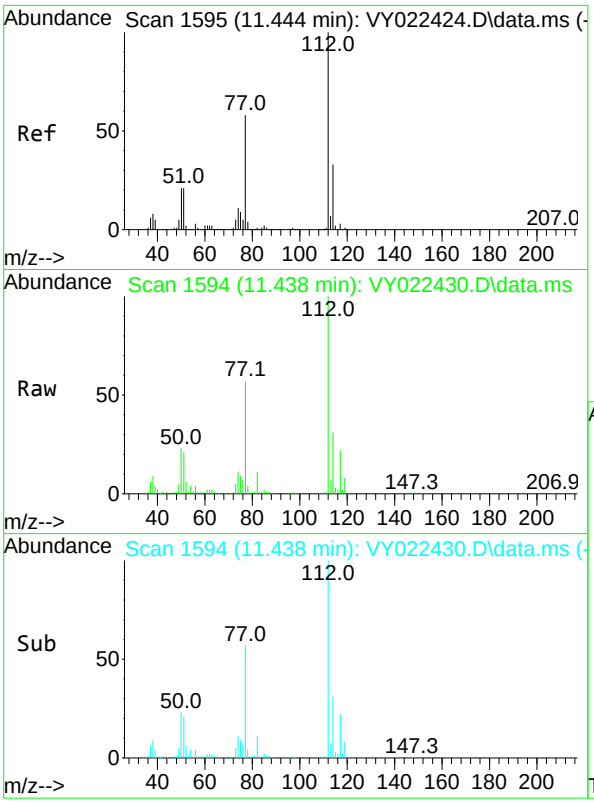


#64
Tetrachloroethene
Concen: 19.905 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion:164 Resp: 57716

Ion	Ratio	Lower	Upper
164	100		
166	121.6	102.0	153.0
129	84.8	71.3	106.9
131	82.4	69.4	104.0



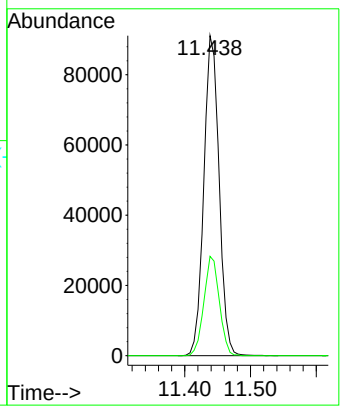


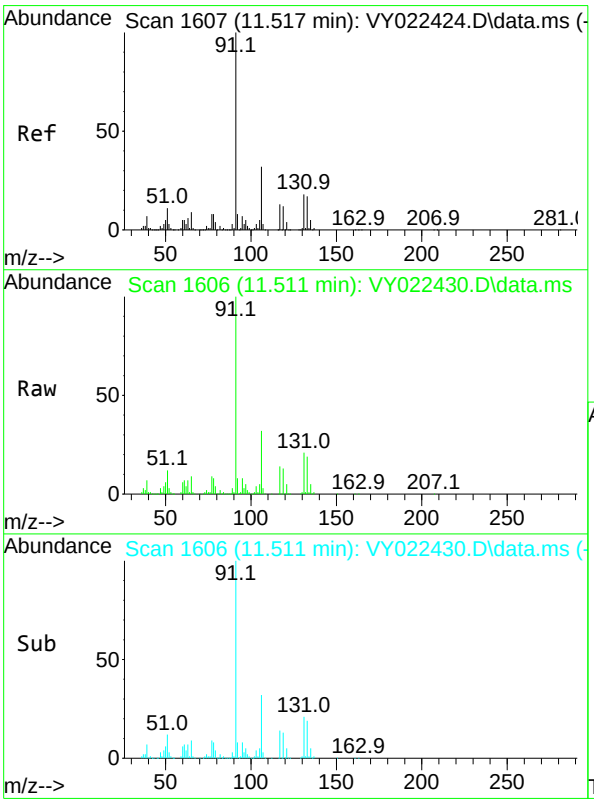
#65
Chlorobenzene
Concen: 20.283 ug/l
RT: 11.438 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

Tgt Ion:112 Resp: 147244

Ion	Ratio	Lower	Upper
112	100		
114	31.1	26.1	39.1

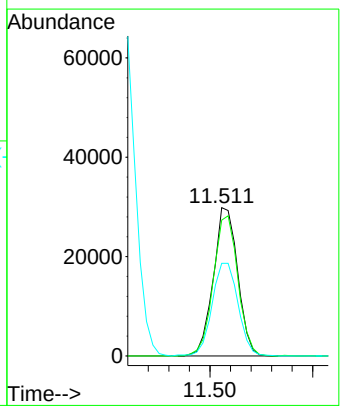


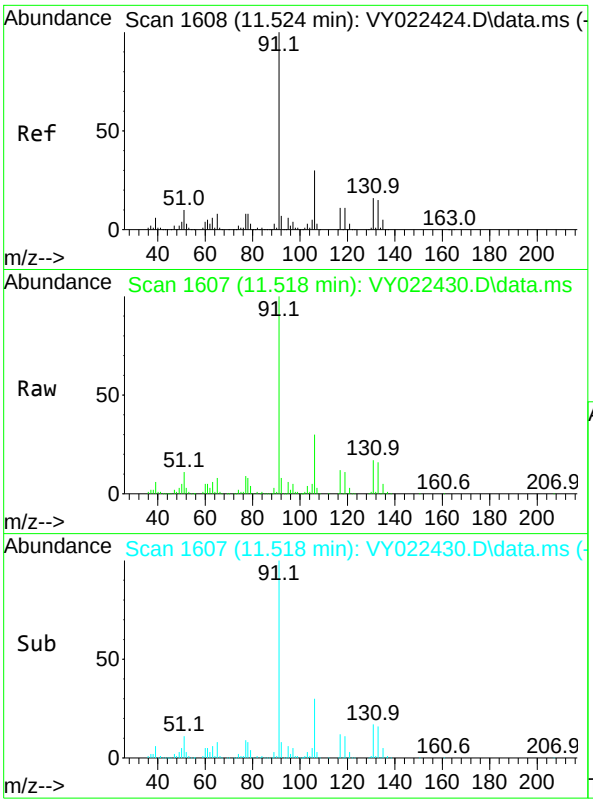


#66
1,1,1,2-Tetrachloroethane
Concen: 19.946 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion:131 Resp: 49061

Ion	Ratio	Lower	Upper
131	100		
133	95.4	46.6	139.8
119	67.0	33.3	99.8



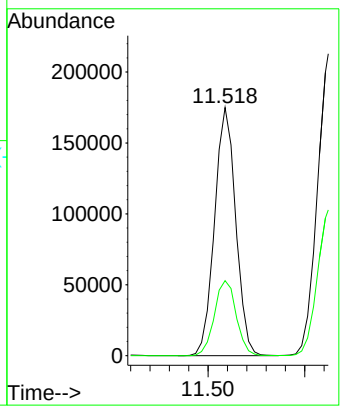


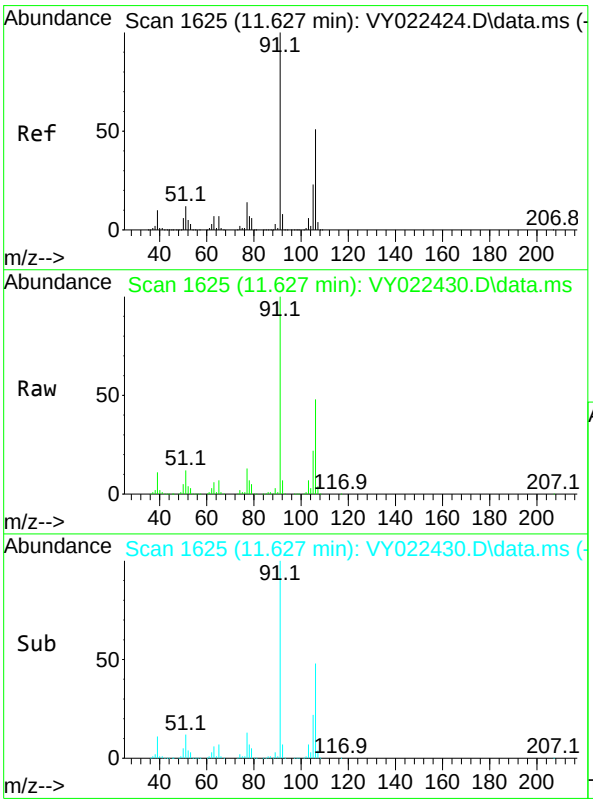
#67
Ethyl Benzene
Concen: 19.704 ug/l
RT: 11.518 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

Tgt Ion: 91 Resp: 265605

Ion	Ratio	Lower	Upper
91	100		
106	30.2	24.4	36.6

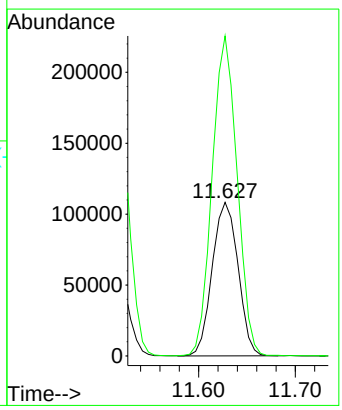


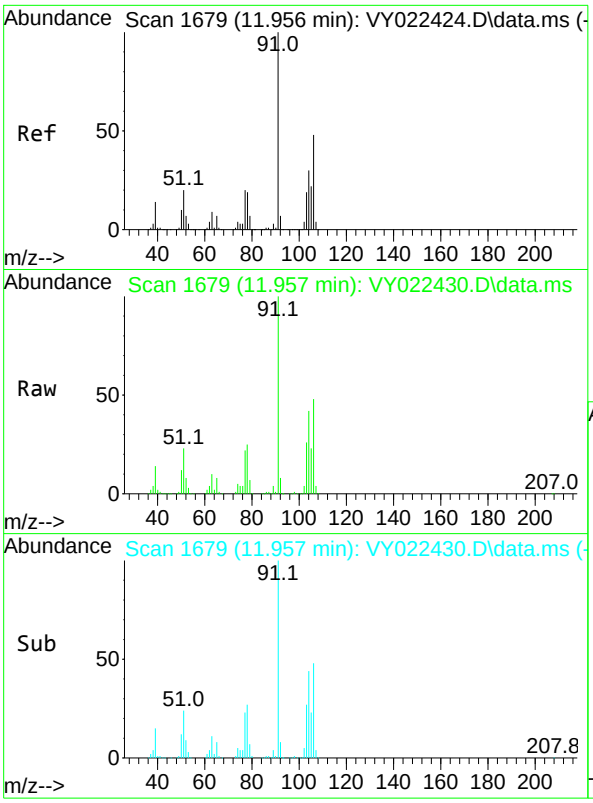


#68
m/p-Xylenes
Concen: 39.260 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.000 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion:106 Resp: 200646

Ion	Ratio	Lower	Upper
106	100		
91	202.4	159.8	239.8



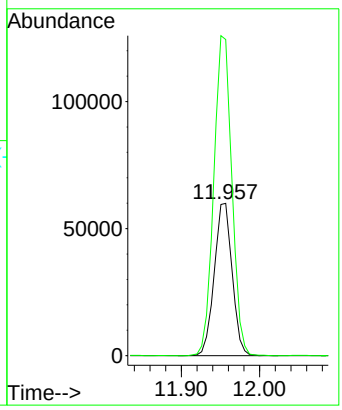


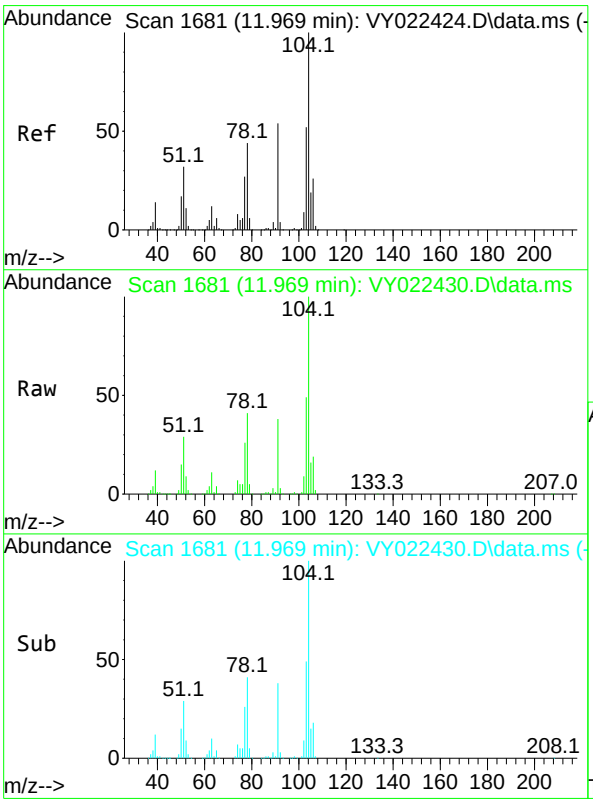
#69
o-Xylene
Concen: 19.811 ug/l
RT: 11.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

Tgt Ion:106 Resp: 95157

Ion	Ratio	Lower	Upper
106	100		
91	212.2	106.3	318.9

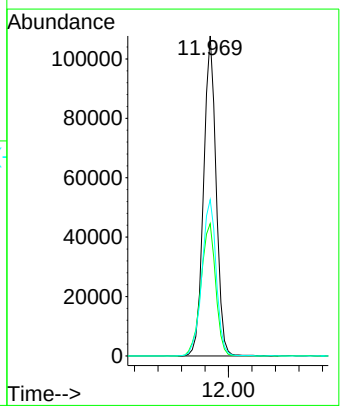


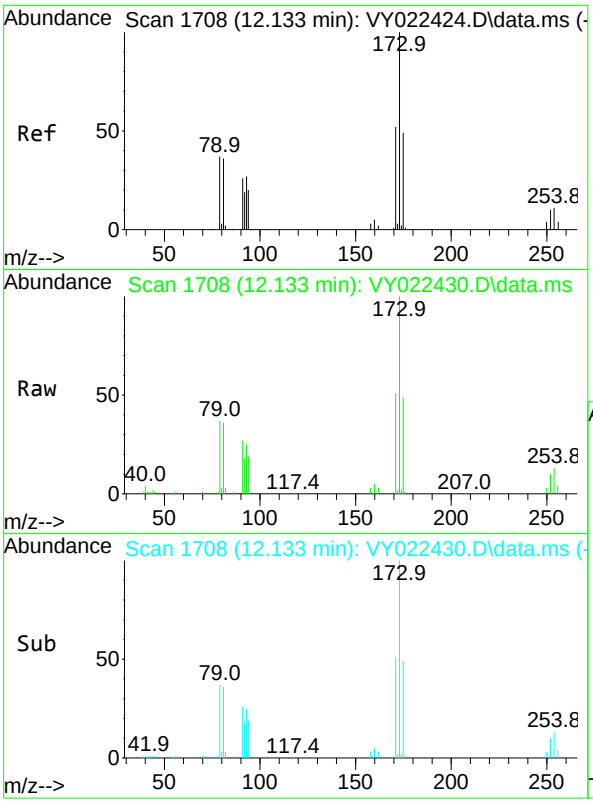


#70
Styrene
Concen: 19.999 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion:104 Resp: 159948

Ion	Ratio	Lower	Upper
104	100		
78	48.6	38.8	58.2
103	55.7	43.4	65.2



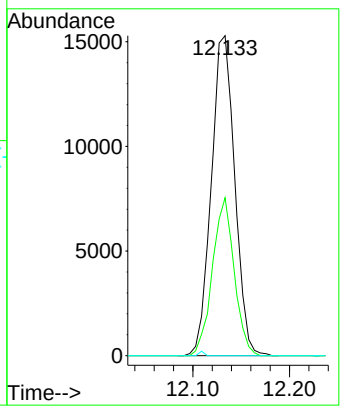


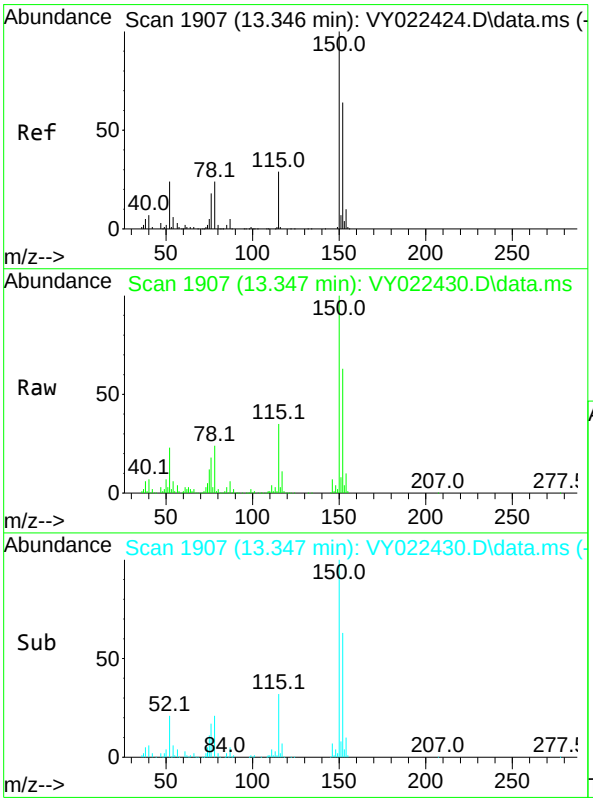
#71
Bromoform
Concen: 19.982 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

Tgt Ion:173 Resp: 25744

Ion	Ratio	Lower	Upper
173	100		
175	45.7	24.3	73.0
254	0.0	0.1	0.1#

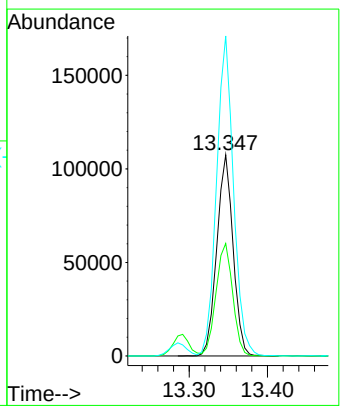


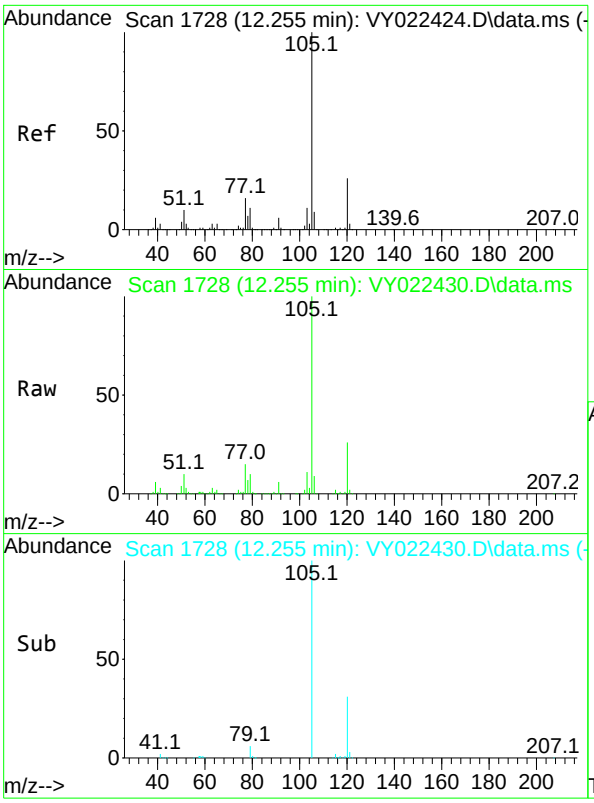


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion:152 Resp: 155764

Ion	Ratio	Lower	Upper
152	100		
115	57.3	28.4	85.3
150	165.7	0.0	345.8



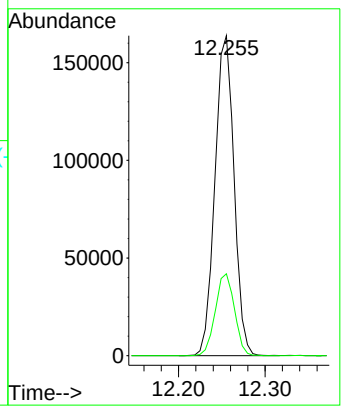


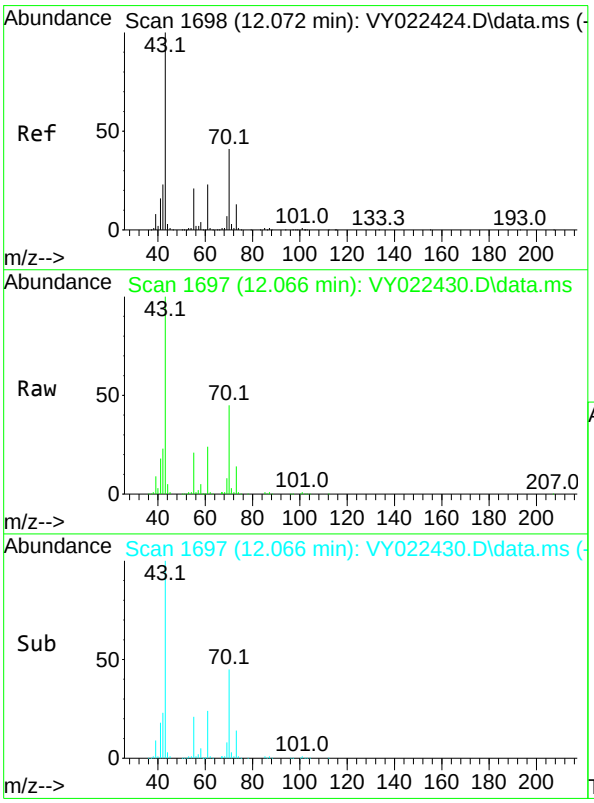
#73
Isopropylbenzene
Concen: 20.438 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

Tgt Ion:105 Resp: 250558

Ion	Ratio	Lower	Upper
105	100		
120	25.7	13.2	39.5

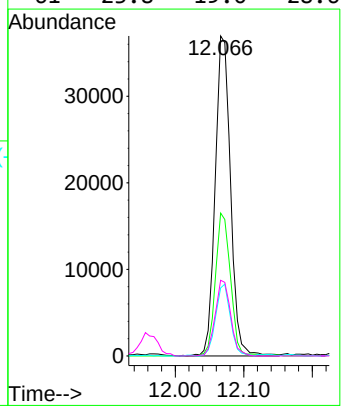


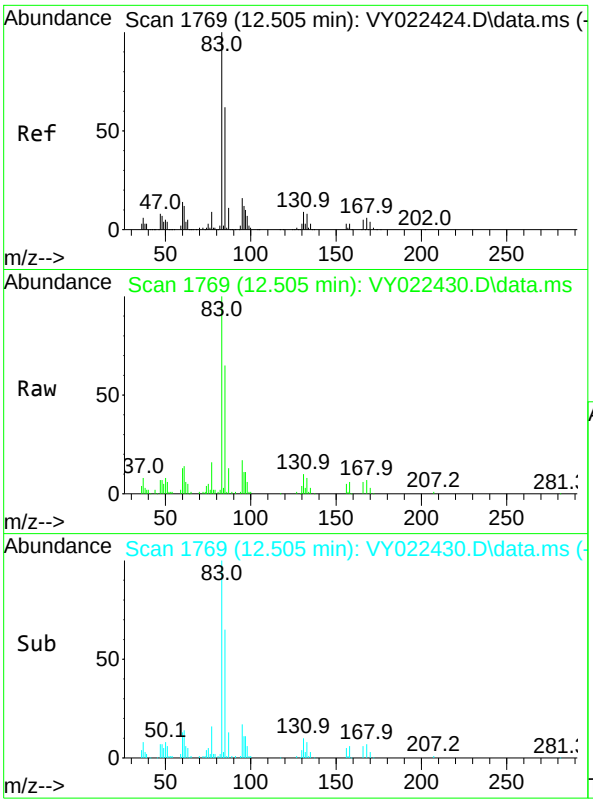


#74
N-amyl acetate
Concen: 19.188 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 43 Resp: 57558

Ion	Ratio	Lower	Upper
43	100		
70	44.1	33.0	49.4
55	21.5	17.5	26.3
61	23.8	19.0	28.6



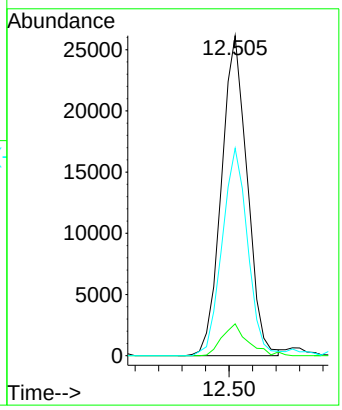


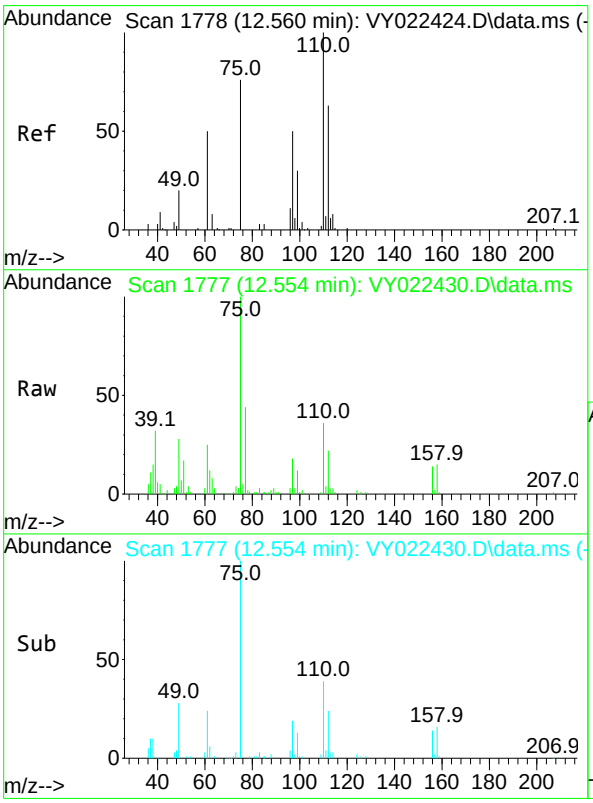
#75
1,1,2,2-Tetrachloroethane
Concen: 20.624 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

Tgt Ion: 83 Resp: 39835

Ion	Ratio	Lower	Upper
83	100		
131	10.0	4.8	14.4
85	64.4	32.0	96.2

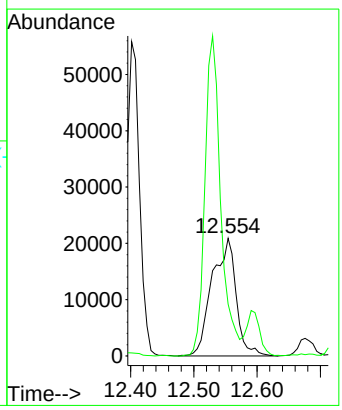


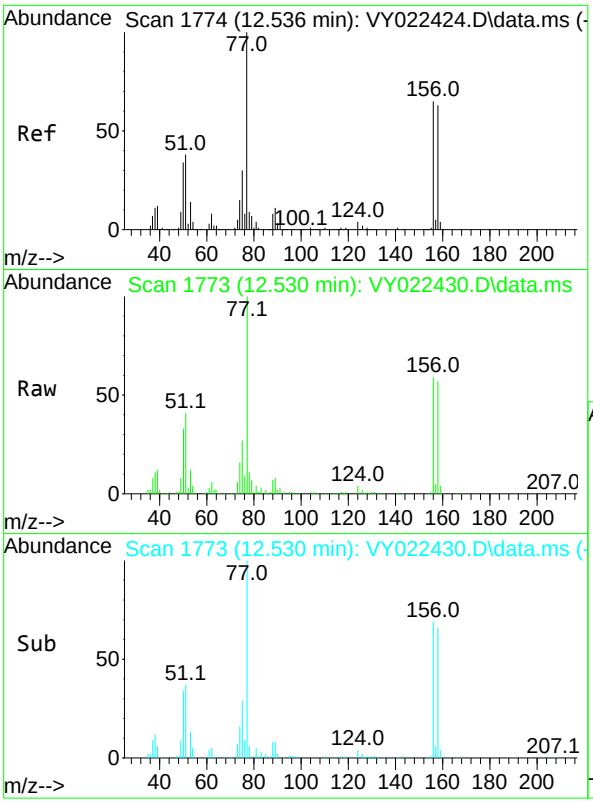


#76
1,2,3-Trichloropropane
Concen: 35.425 ug/l
RT: 12.554 min Scan# 1777
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 75 Resp: 55271

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0



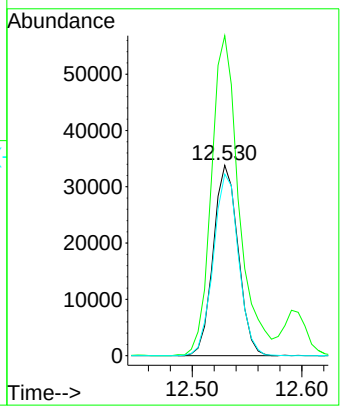


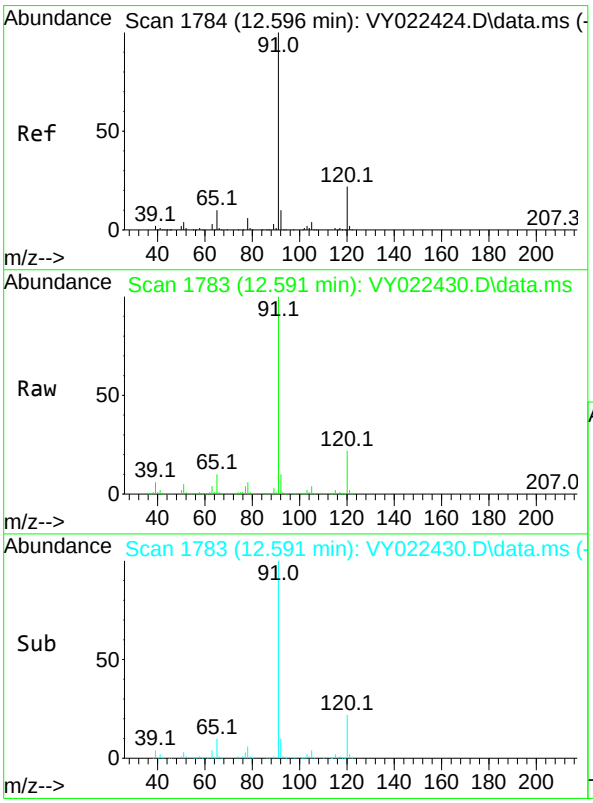
#77
Bromobenzene
Concen: 20.170 ug/l
RT: 12.530 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

Tgt Ion:156 Resp: 53210

Ion	Ratio	Lower	Upper
156	100		
77	186.6	91.4	274.2
158	97.0	48.1	144.3

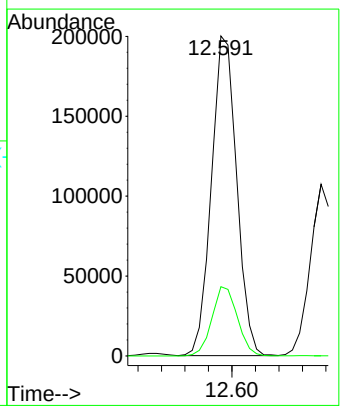


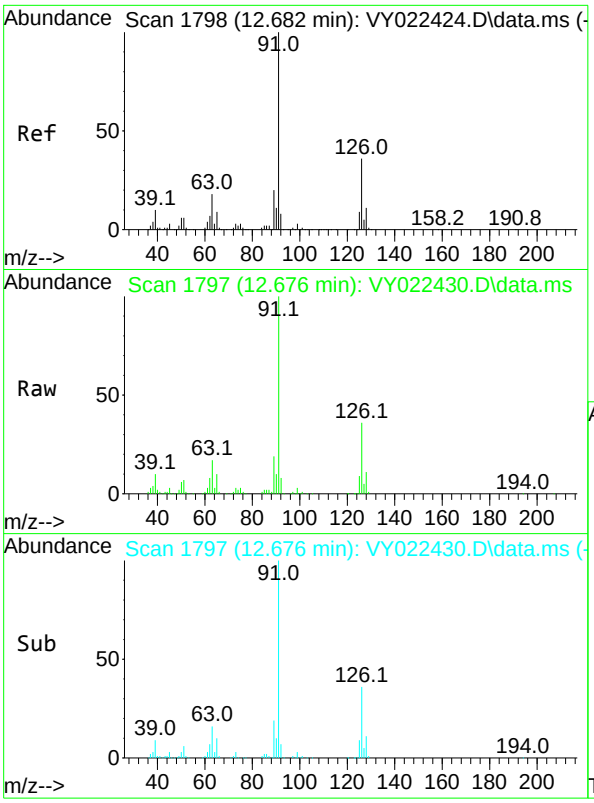


#78
n-propylbenzene
Concen: 20.305 ug/l
RT: 12.591 min Scan# 1783
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 91 Resp: 298731

Ion	Ratio	Lower	Upper
91	100		
120	21.8	11.2	33.5



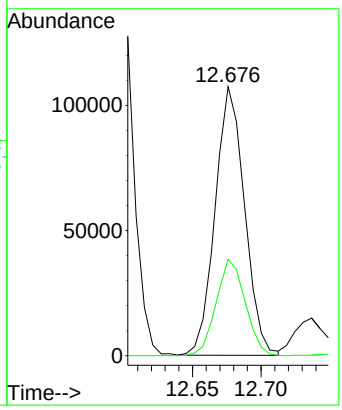


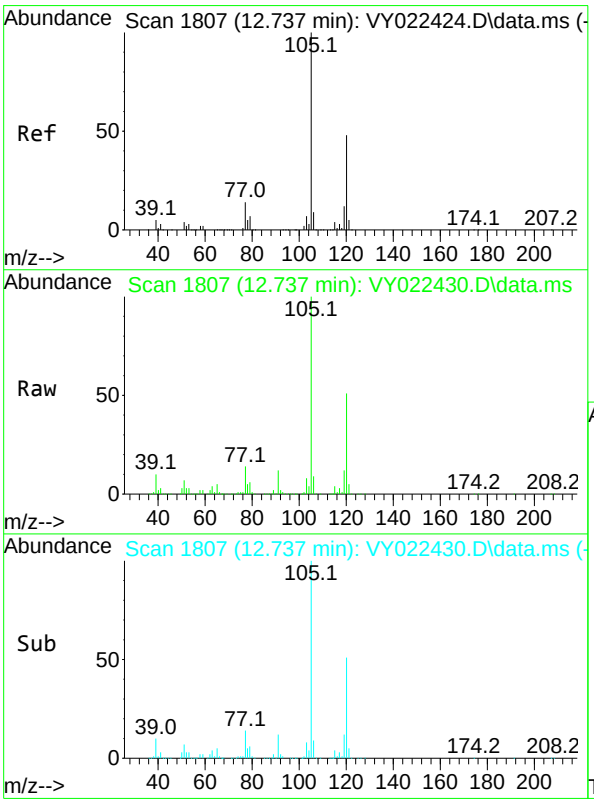
#79
2-Chlorotoluene
Concen: 20.133 ug/l
RT: 12.676 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

Tgt Ion: 91 Resp: 160337

Ion	Ratio	Lower	Upper
91	100		
126	35.3	17.4	52.3

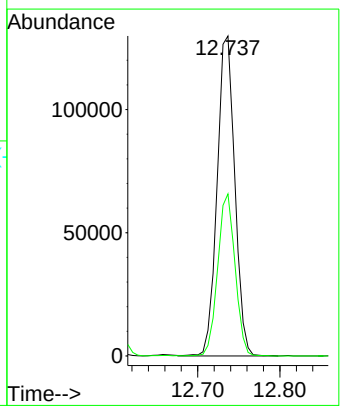


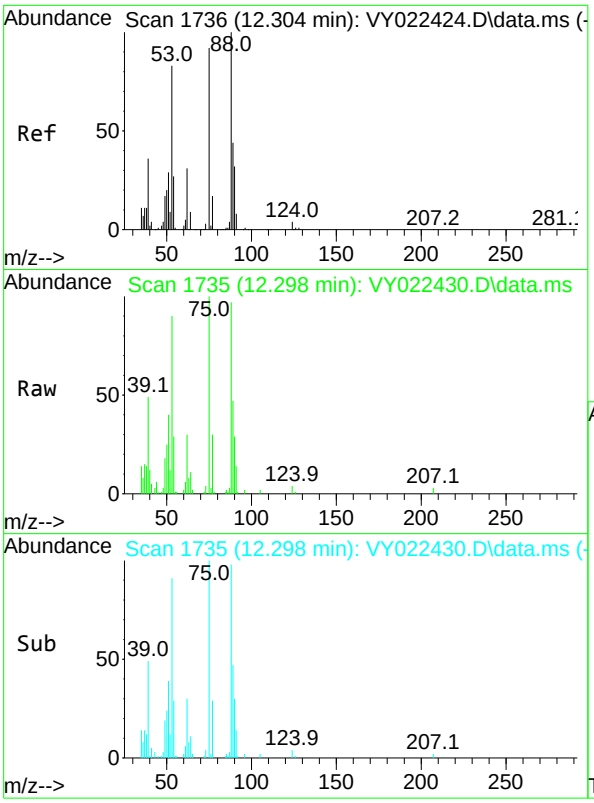


#80
1,3,5-Trimethylbenzene
Concen: 20.270 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion:105 Resp: 194158

Ion	Ratio	Lower	Upper
105	100		
120	49.7	24.3	73.0



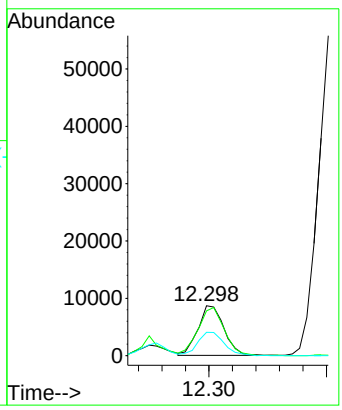


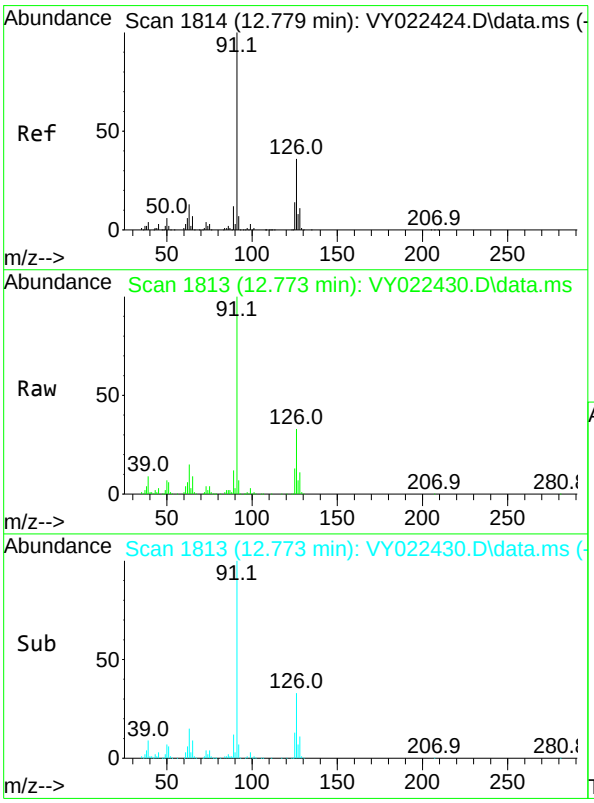
#81
trans-1,4-Dichloro-2-butene
Concen: 19.077 ug/l
RT: 12.298 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

Tgt Ion: 75 Resp: 13162

Ion	Ratio	Lower	Upper
75	100		
53	100.4	75.1	112.7
89	48.7	37.4	56.0

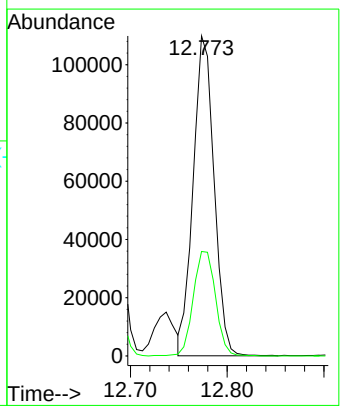


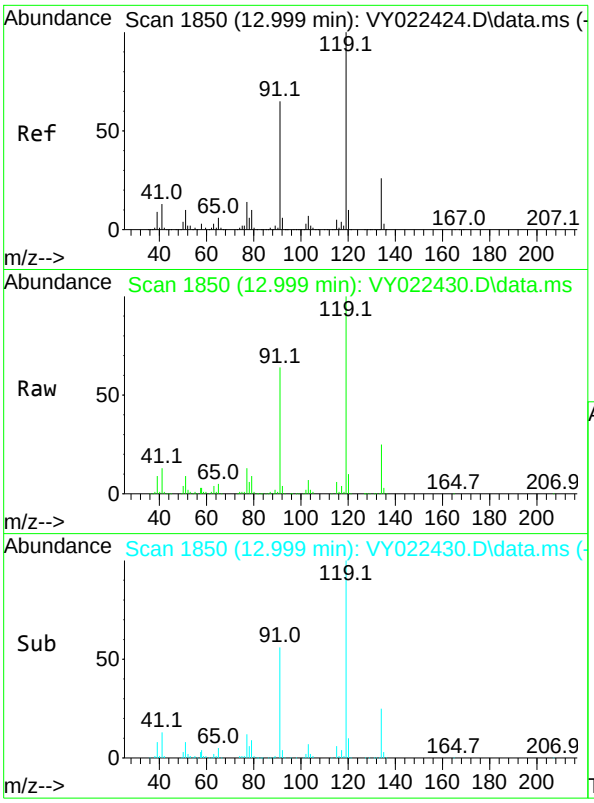


#82
4-Chlorotoluene
Concen: 20.120 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 91 Resp: 165029

Ion	Ratio	Lower	Upper
91	100		
126	34.9	17.2	51.6



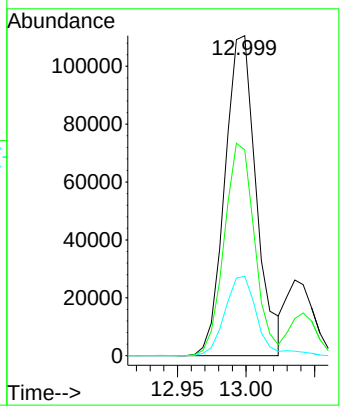


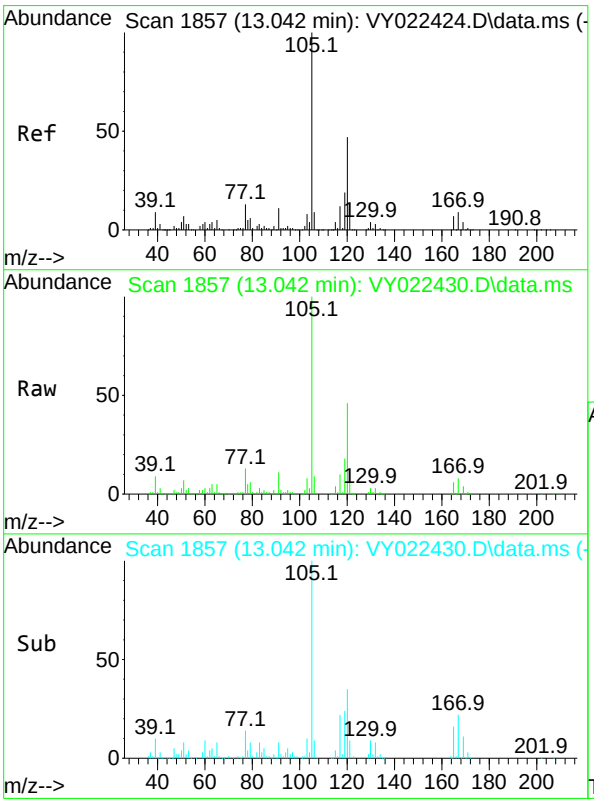
#83
tert-Butylbenzene
Concen: 20.382 ug/l
RT: 12.999 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

Tgt Ion:119 Resp: 176391

Ion	Ratio	Lower	Upper
119	100		
91	64.2	31.8	95.3
134	25.5	13.0	38.9

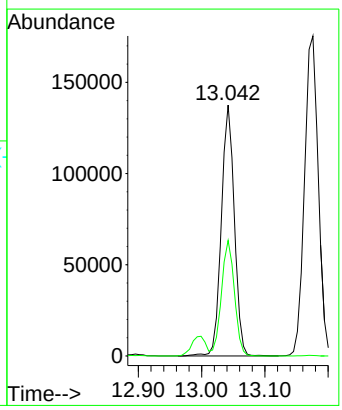


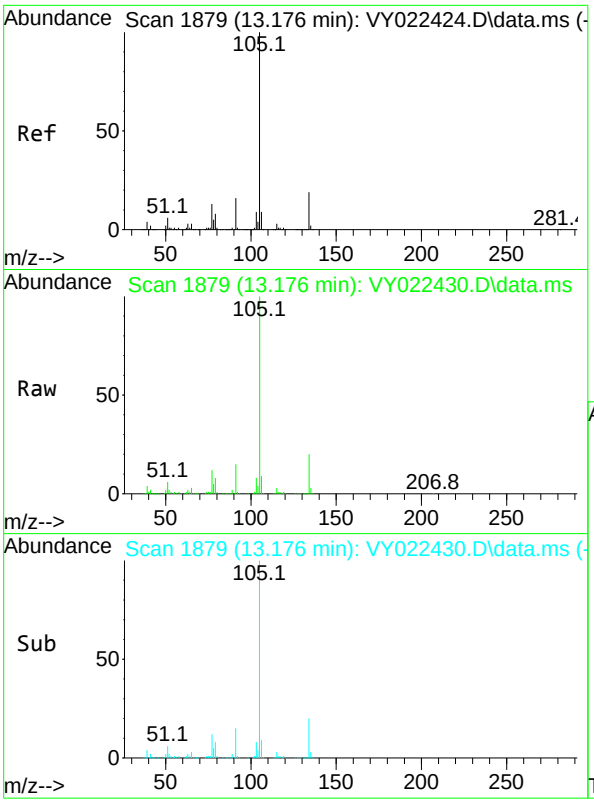


#84
1,2,4-Trimethylbenzene
Concen: 20.306 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.000 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion:105 Resp: 195735

Ion	Ratio	Lower	Upper
105	100		
120	46.0	22.9	68.5



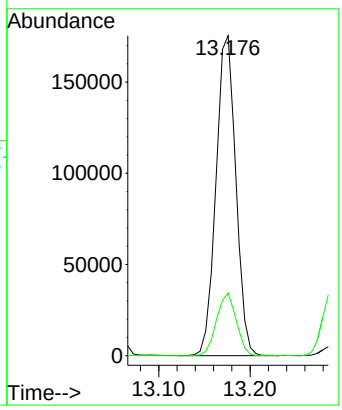


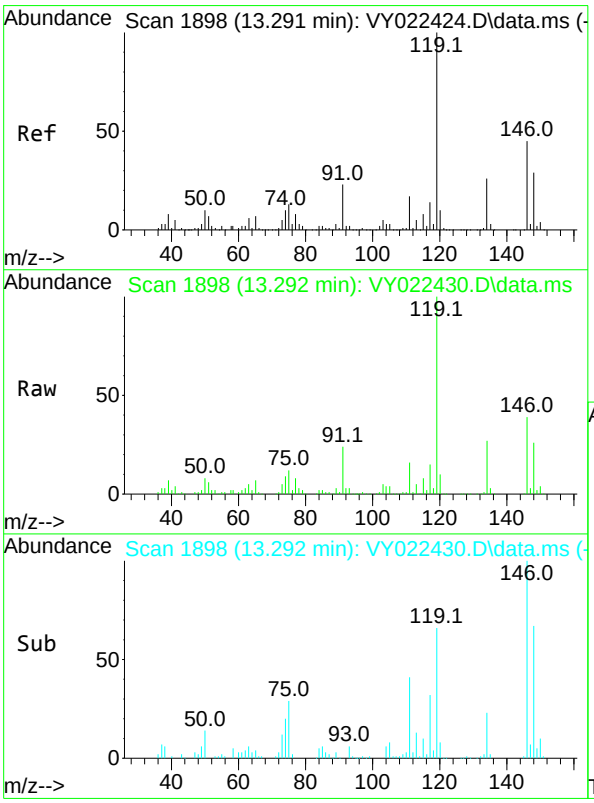
#85
sec-Butylbenzene
Concen: 20.608 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

Tgt Ion:105 Resp: 264497

Ion	Ratio	Lower	Upper
105	100		
134	19.4	9.7	29.1

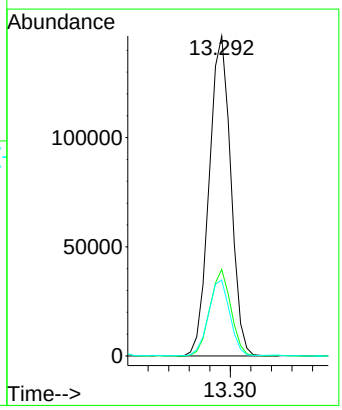


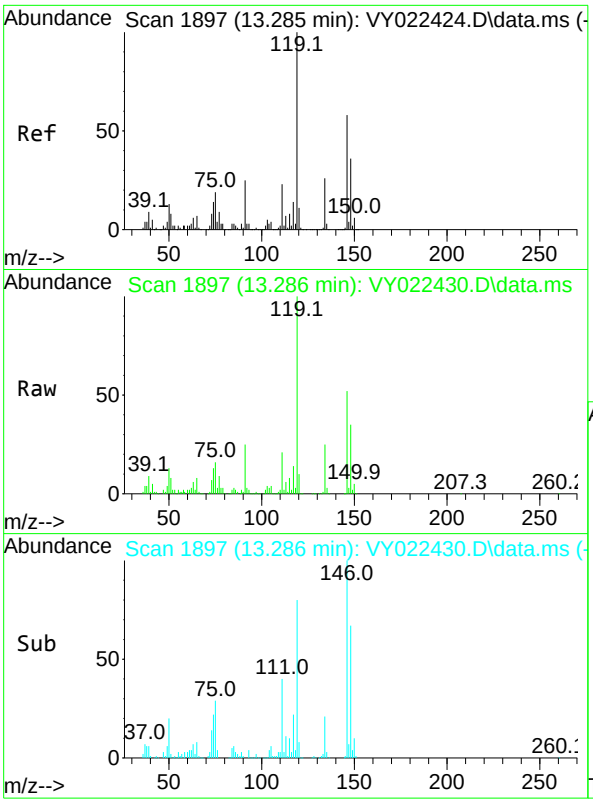


#86
p-Isopropyltoluene
Concen: 19.898 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.000 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion:119 Resp: 213252

Ion	Ratio	Lower	Upper
119	100		
134	26.3	13.0	39.0
91	23.3	11.6	34.8



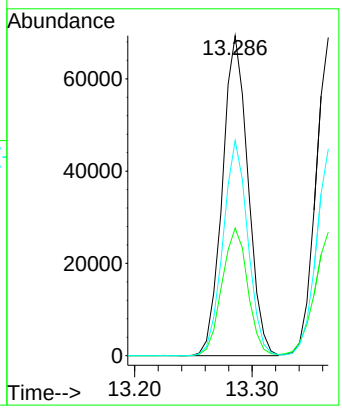


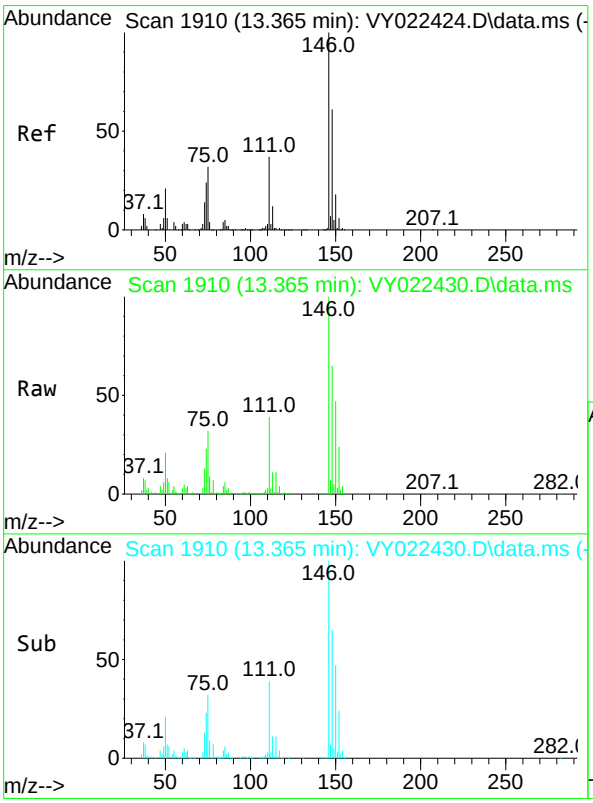
#87
1,3-Dichlorobenzene
Concen: 19.743 ug/l
RT: 13.286 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

Tgt Ion:146 Resp: 104797

Ion	Ratio	Lower	Upper
146	100		
111	40.1	19.6	58.8
148	65.2	31.7	95.1

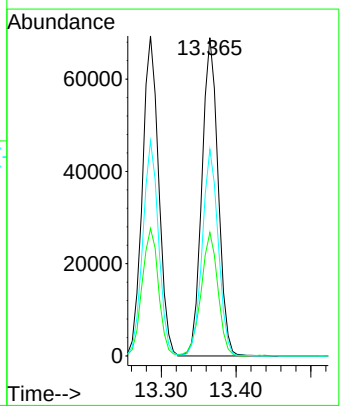


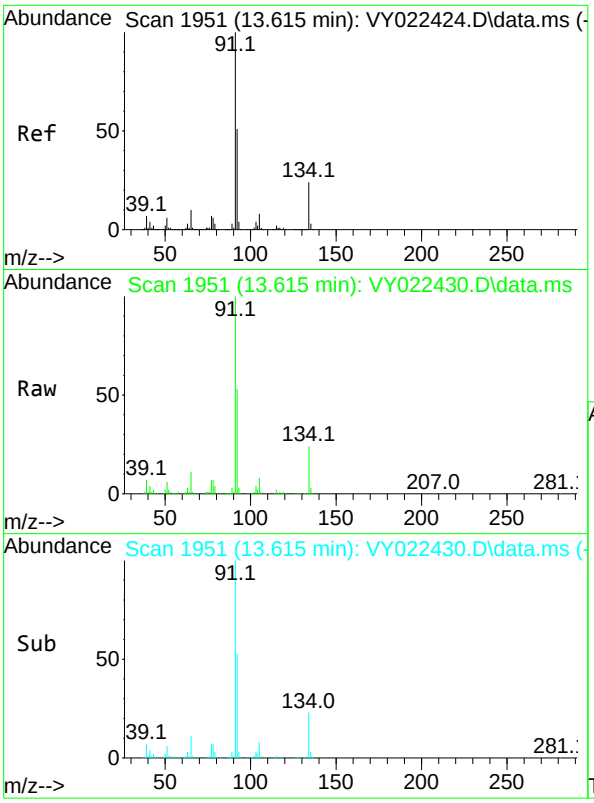


#88
1,4-Dichlorobenzene
Concen: 20.501 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.000 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion:146 Resp: 104056

Ion	Ratio	Lower	Upper
146	100		
111	40.2	18.7	56.1
148	64.3	31.4	94.3



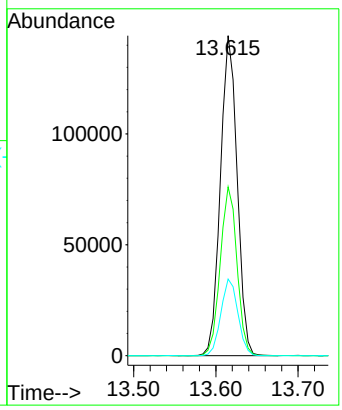


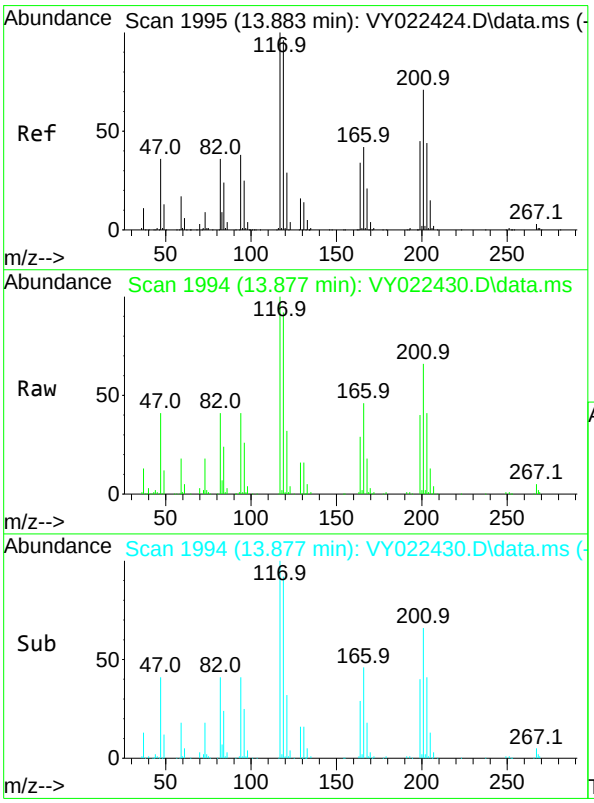
#89
n-Butylbenzene
Concen: 20.376 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

Tgt Ion: 91 Resp: 204753

Ion	Ratio	Lower	Upper
91	100		
92	52.8	25.9	77.6
134	24.3	12.4	37.0

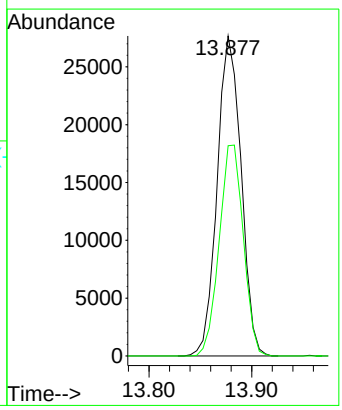


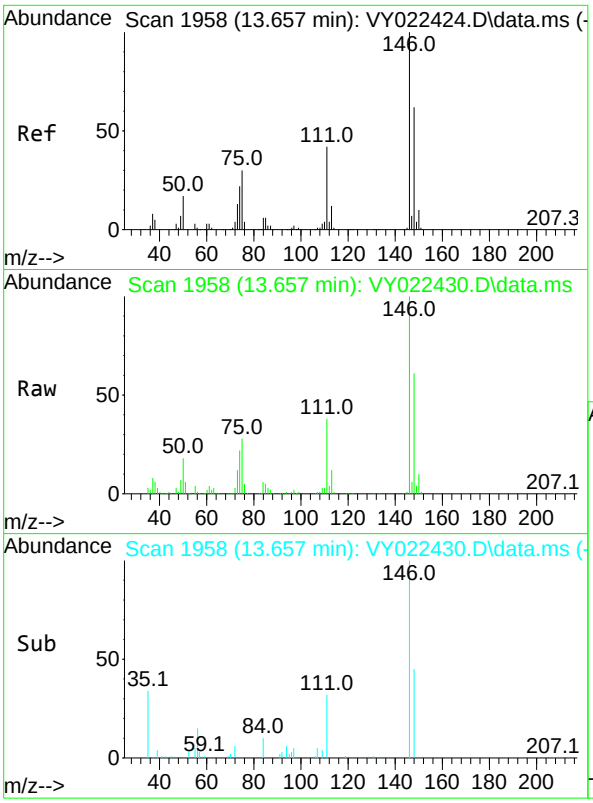


#90
Hexachloroethane
Concen: 20.980 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion:117 Resp: 44745

Ion	Ratio	Lower	Upper
117	100		
201	66.5	35.0	105.0



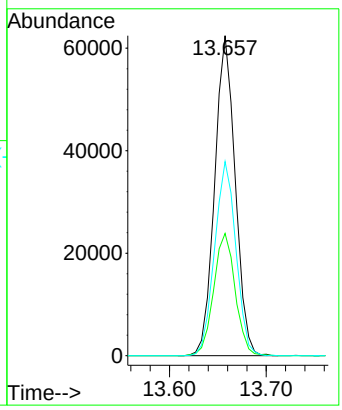


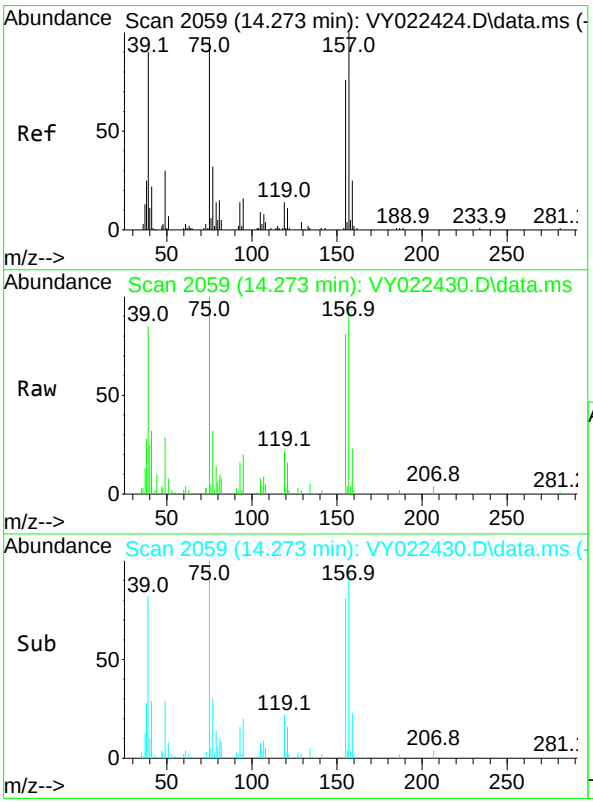
#91
1,2-Dichlorobenzene
Concen: 20.746 ug/l
RT: 13.657 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

Tgt Ion:146 Resp: 91980

Ion	Ratio	Lower	Upper
146	100		
111	40.1	20.5	61.6
148	63.0	31.9	95.9

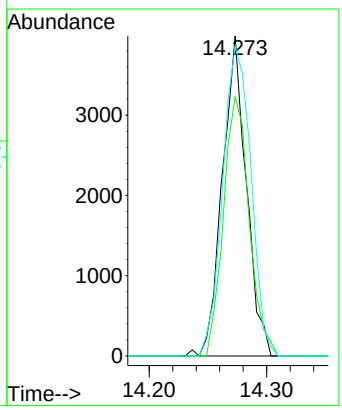


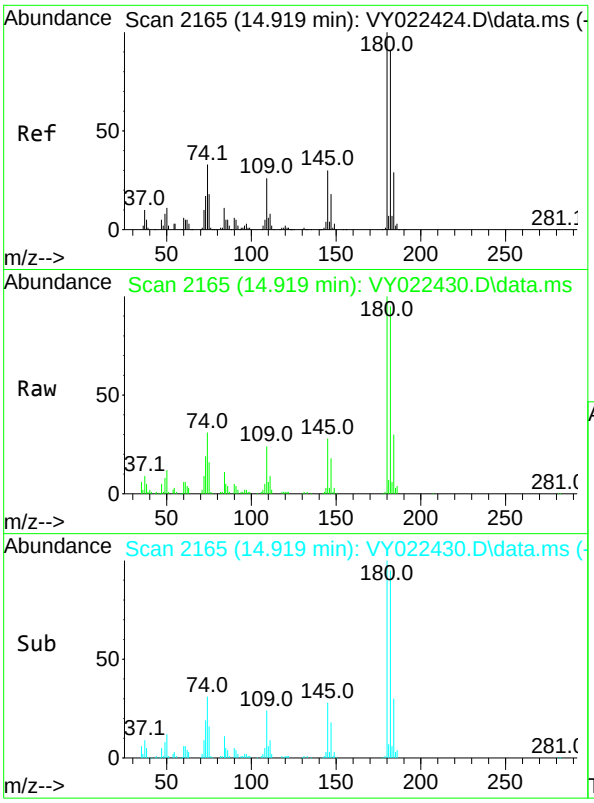


#92
1,2-Dibromo-3-Chloropropane
Concen: 18.964 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.000 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion: 75 Resp: 5660

Ion	Ratio	Lower	Upper
75	100		
155	87.0	42.3	126.8
157	114.0	54.4	163.3



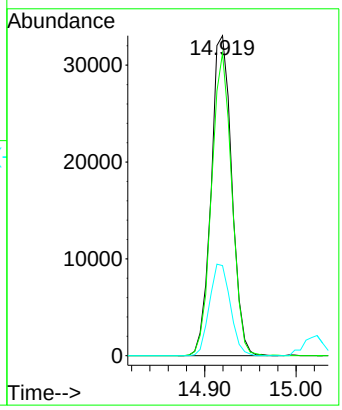


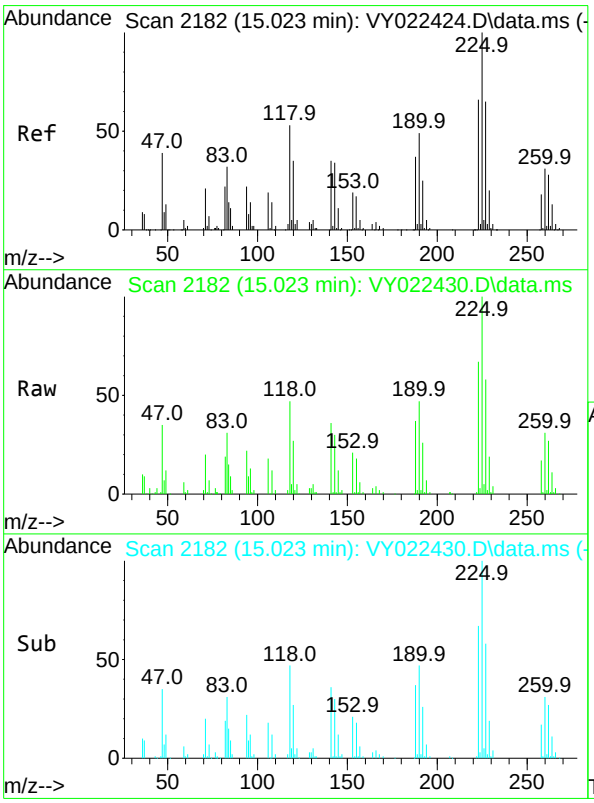
#93
1,2,4-Trichlorobenzene
Concen: 21.069 ug/l
RT: 14.919 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

Tgt Ion:180 Resp: 51786

Ion	Ratio	Lower	Upper
180	100		
182	92.3	46.2	138.6
145	28.9	14.2	42.8

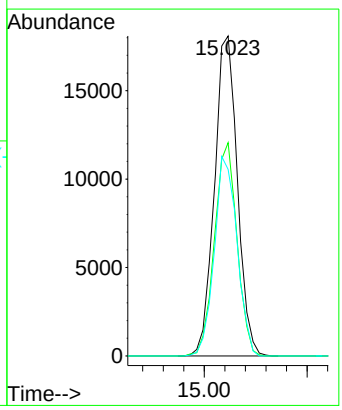


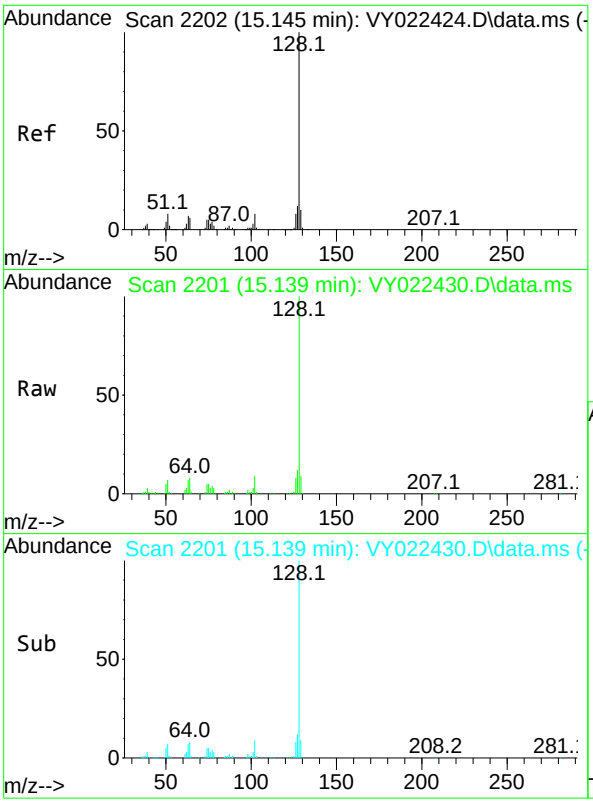


#94
Hexachlorobutadiene
Concen: 21.690 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.000 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion:225 Resp: 27978

Ion	Ratio	Lower	Upper
225	100		
223	65.3	32.6	97.7
227	61.6	33.0	99.0



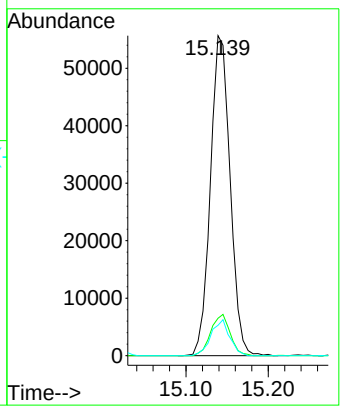


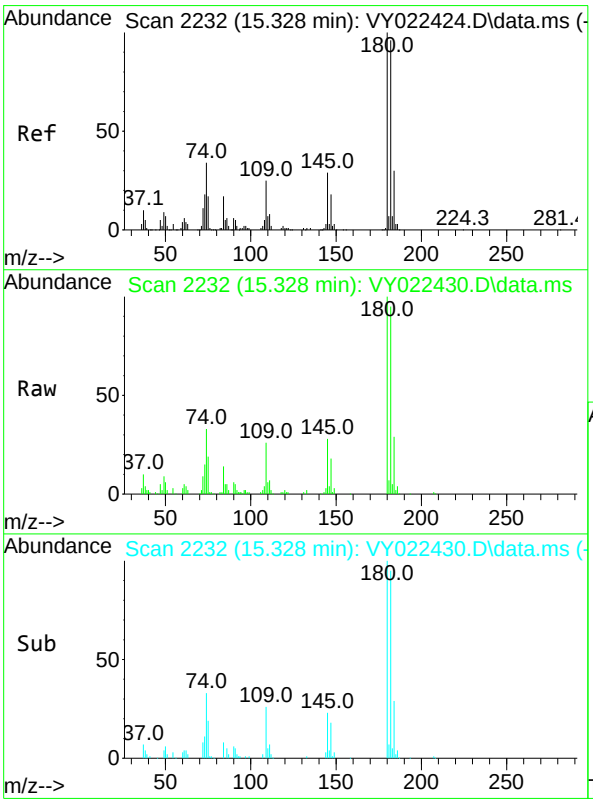
#95
Naphthalene
Concen: 20.393 ug/l
RT: 15.139 min Scan# 2
Delta R.T. -0.006 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Instrument :
MSVOA_Y
ClientSampleId :
VY0527SBS01

Tgt Ion:128 Resp: 92664

Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.2	15.4
129	10.7	8.5	12.7

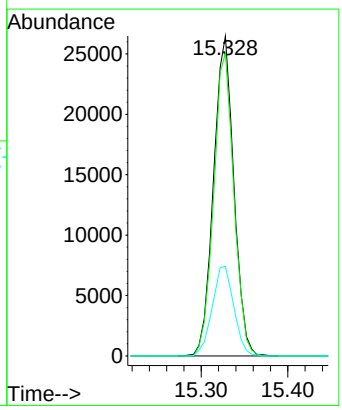




#96
1,2,3-Trichlorobenzene
Concen: 21.382 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. 0.000 min
Lab File: VY022430.D
Acq: 27 May 2025 13:35

Tgt Ion:180 Resp: 43102

Ion	Ratio	Lower	Upper
180	100		
182	93.7	48.1	144.3
145	29.8	14.9	44.5



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022438.D
Acq On : 27 May 2025 17:10
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Quant Time: May 28 15:28:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	7.713	168	215940	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	8.616	114	364513	50.000	ug/l		0.00
63) Chlorobenzene-d5	11.414	117	319704	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	153246	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	8.061	65	120665	53.051	ug/l		0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 106.100%				
35) Dibromofluoromethane	7.634	113	110847	51.926	ug/l		0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 103.860%				
50) Toluene-d8	10.103	98	447277	51.398	ug/l		0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 102.800%				
62) 4-Bromofluorobenzene	12.401	95	133956	50.890	ug/l		0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 101.780%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.861	85	91750	44.534	ug/l		100
3) Chloromethane	2.068	50	238761	47.114	ug/l		99
4) Vinyl Chloride	2.202	62	329758	53.564	ug/l		98
5) Bromomethane	2.592	94	278873	49.847	ug/l		100
6) Chloroethane	2.732	64	227784	56.621	ug/l		99
7) Trichlorofluoromethane	3.050	101	293801	56.563	ug/l		97
8) Diethyl Ether	3.452	74	64970	54.247	ug/l		99
9) 1,1,2-Trichlorotrifluo...	3.812	101	113521	49.816	ug/l		99
10) Methyl Iodide	4.001	142	133073	51.761	ug/l		100
11) Tert butyl alcohol	4.866	59	47457	296.007	ug/l	#	84
12) 1,1-Dichloroethene	3.787	96	114561	50.636	ug/l		98
13) Acrolein	3.653	56	62039	258.255	ug/l		99
14) Allyl chloride	4.385	41	173903	51.098	ug/l		98
15) Acrylonitrile	5.055	53	137130	284.055	ug/l		99
16) Acetone	3.873	43	103688	277.421	ug/l	#	89
17) Carbon Disulfide	4.104	76	358889	49.708	ug/l		99
18) Methyl Acetate	4.385	43	97215	69.436	ug/l		100
19) Methyl tert-butyl Ether	5.116	73	327791	54.572	ug/l		98
20) Methylene Chloride	4.610	84	132094	50.049	ug/l		99
21) trans-1,2-Dichloroethene	5.110	96	125968	51.000	ug/l		99
22) Diisopropyl ether	6.018	45	397757	52.955	ug/l		99
23) Vinyl Acetate	5.958	43	1085430	251.677	ug/l		99
24) 1,1-Dichloroethane	5.915	63	231541	52.168	ug/l		100
25) 2-Butanone	6.896	43	177609	285.333	ug/l		96
26) 2,2-Dichloropropane	6.884	77	194187	48.319	ug/l		100
27) cis-1,2-Dichloroethene	6.890	96	148685	51.999	ug/l		99
28) Bromochloromethane	7.244	49	101033	54.514	ug/l		100
29) Tetrahydrofuran	7.262	42	118500	285.450	ug/l		99
30) Chloroform	7.421	83	233553	53.403	ug/l		99
31) Cyclohexane	7.701	56	205414	46.951	ug/l		97
32) 1,1,1-Trichloroethane	7.616	97	201031	50.648	ug/l		100
36) 1,1-Dichloropropene	7.835	75	168238	49.665	ug/l		99
37) Ethyl Acetate	6.988	43	77550	53.869	ug/l		99
38) Carbon Tetrachloride	7.817	117	179005	50.728	ug/l		97
39) Methylcyclohexane	9.109	83	220257	48.915	ug/l		98
40) Benzene	8.079	78	522962	51.884	ug/l		98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022438.D
Acq On : 27 May 2025 17:10
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Quant Time: May 28 15:28:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.226	41	47932	54.858	ug/l		93
42) 1,2-Dichloroethane	8.158	62	141760	53.251	ug/l		100
43) Isopropyl Acetate	8.195	43	174194	55.374	ug/l		100
44) Trichloroethene	8.866	130	129953	52.154	ug/l		98
45) 1,2-Dichloropropane	9.140	63	125086	52.819	ug/l		98
46) Dibromomethane	9.231	93	70737	53.469	ug/l		99
47) Bromodichloromethane	9.426	83	180193	52.966	ug/l		98
48) Methyl methacrylate	9.219	41	83183	56.964	ug/l		100
49) 1,4-Dioxane	9.231	88	18170	1243.469	ug/l		97
51) 4-Methyl-2-Pentanone	9.999	43	454081	292.551	ug/l		100
52) Toluene	10.170	92	330369	52.475	ug/l		99
53) t-1,3-Dichloropropene	10.390	75	167640	52.902	ug/l		98
54) cis-1,3-Dichloropropene	9.853	75	194643	52.274	ug/l		99
55) 1,1,2-Trichloroethane	10.573	97	90934	54.365	ug/l		99
56) Ethyl methacrylate	10.438	69	130742	54.468	ug/l		96
57) 1,3-Dichloropropane	10.719	76	160238	54.362	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.713	63	337645	282.246	ug/l		98
59) 2-Hexanone	10.762	43	300417	295.339	ug/l		98
60) Dibromochloromethane	10.908	129	117196	54.851	ug/l		98
61) 1,2-Dibromoethane	11.018	107	84983	55.550	ug/l		98
64) Tetrachloroethene	10.646	164	140398	51.564	ug/l		95
65) Chlorobenzene	11.438	112	348144	51.070	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.518	131	118142	51.150	ug/l		98
67) Ethyl Benzene	11.518	91	640745	50.620	ug/l		99
68) m/p-Xylenes	11.627	106	485062	101.074	ug/l		99
69) o-Xylene	11.956	106	231722	51.375	ug/l		99
70) Styrene	11.969	104	391490	52.127	ug/l		99
71) Bromoform	12.133	173	64997	53.724	ug/l	#	99
73) Isopropylbenzene	12.255	105	588766	48.816	ug/l		100
74) N-amyl acetate	12.066	43	151521	51.341	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.505	83	99990	52.620	ug/l		98
76) 1,2,3-Trichloropropane	12.554	75	139022	90.568	ug/l	#	100
77) Bromobenzene	12.530	156	128001	49.317	ug/l		97
78) n-propylbenzene	12.597	91	714786	49.384	ug/l		100
79) 2-Chlorotoluene	12.676	91	386484	49.327	ug/l		100
80) 1,3,5-Trimethylbenzene	12.737	105	470592	49.937	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.304	75	33779	49.765	ug/l		100
82) 4-Chlorotoluene	12.773	91	396857	49.180	ug/l		99
83) tert-Butylbenzene	12.993	119	425162	49.935	ug/l		100
84) 1,2,4-Trimethylbenzene	13.042	105	474294	50.013	ug/l		99
85) sec-Butylbenzene	13.176	105	628153	49.747	ug/l		100
86) p-Isopropyltoluene	13.292	119	523705	49.668	ug/l		100
87) 1,3-Dichlorobenzene	13.285	146	260669	49.914	ug/l		100
88) 1,4-Dichlorobenzene	13.365	146	252310	50.528	ug/l		99
89) n-Butylbenzene	13.615	91	491561	49.721	ug/l		99
90) Hexachloroethane	13.877	117	105769	50.407	ug/l		97
91) 1,2-Dichlorobenzene	13.657	146	227011	52.043	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	14.273	75	16260	55.375	ug/l		96
93) 1,2,4-Trichlorobenzene	14.919	180	124984	51.685	ug/l		98
94) Hexachlorobutadiene	15.023	225	63507	50.042	ug/l		97
95) Naphthalene	15.139	128	252996	56.592	ug/l		99
96) 1,2,3-Trichlorobenzene	15.328	180	106651	53.776	ug/l		99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022438.D
Acq On : 27 May 2025 17:10
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Quant Time: May 28 15:28:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration

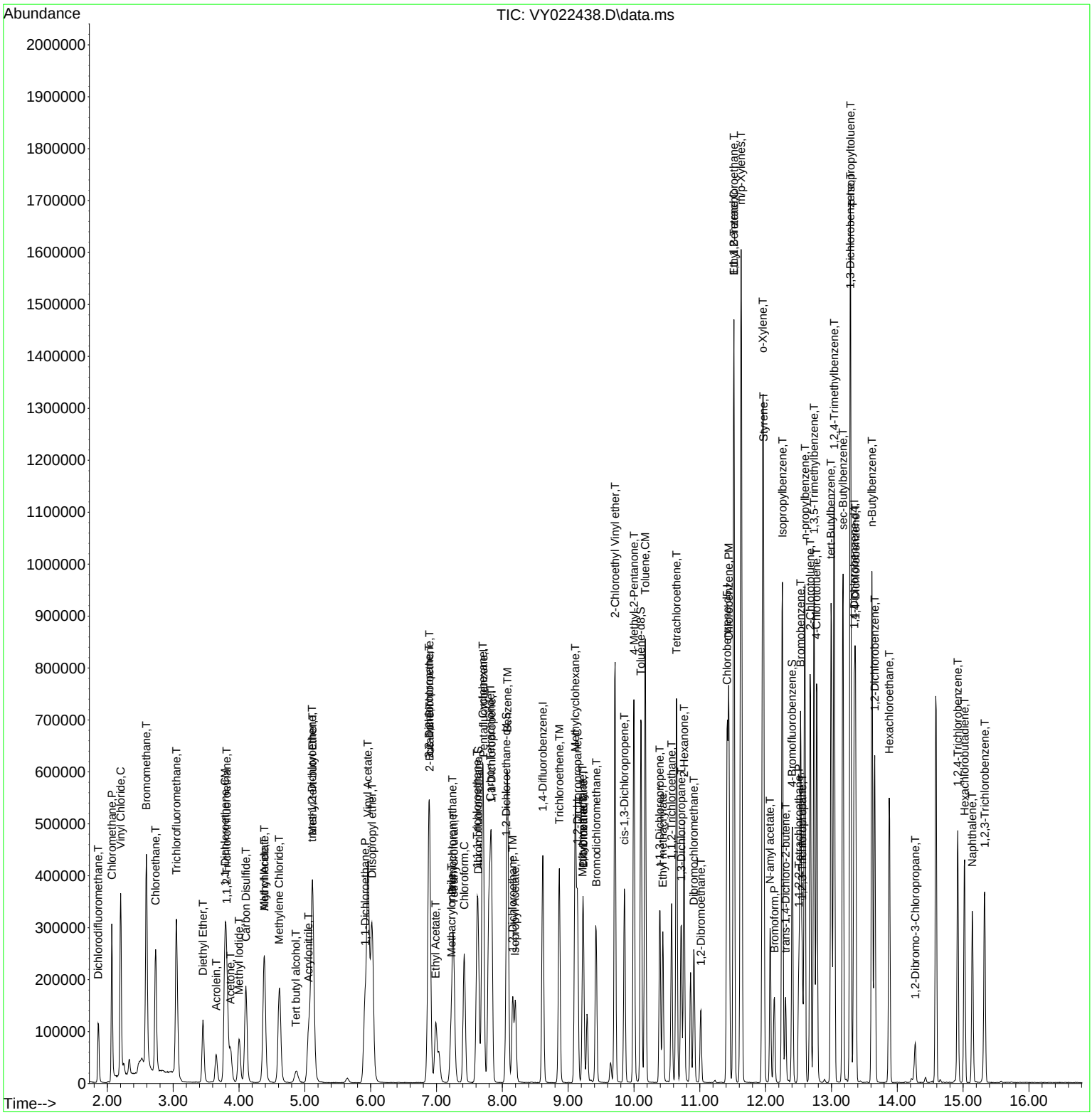
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

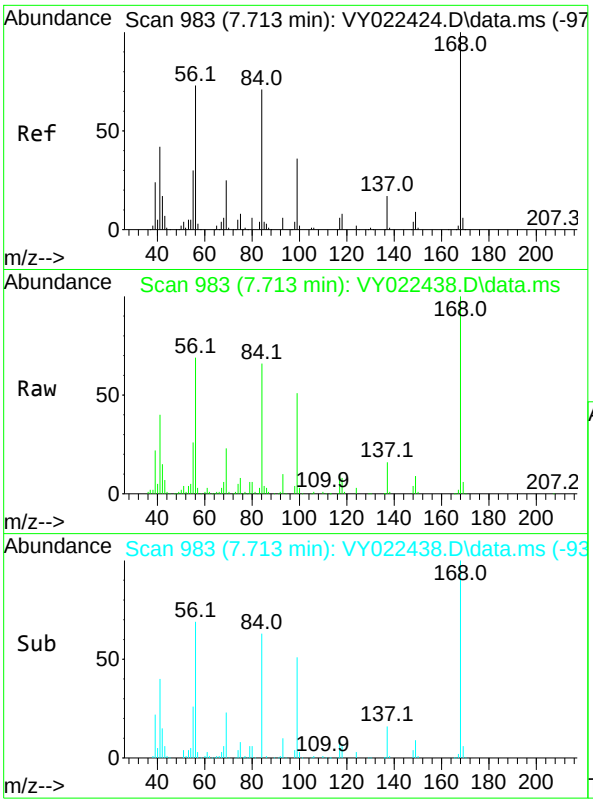
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY052725\
Data File : VY022438.D
Acq On : 27 May 2025 17:10
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Quant Time: May 28 15:28:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y052725S.M
Quant Title : SW846 8260
QLast Update : Wed May 28 10:34:06 2025
Response via : Initial Calibration



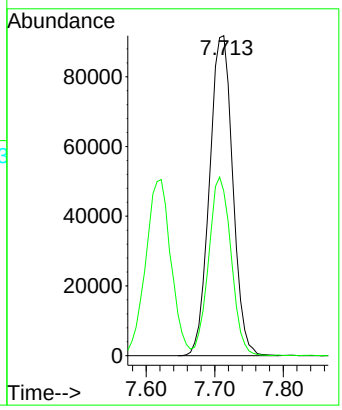


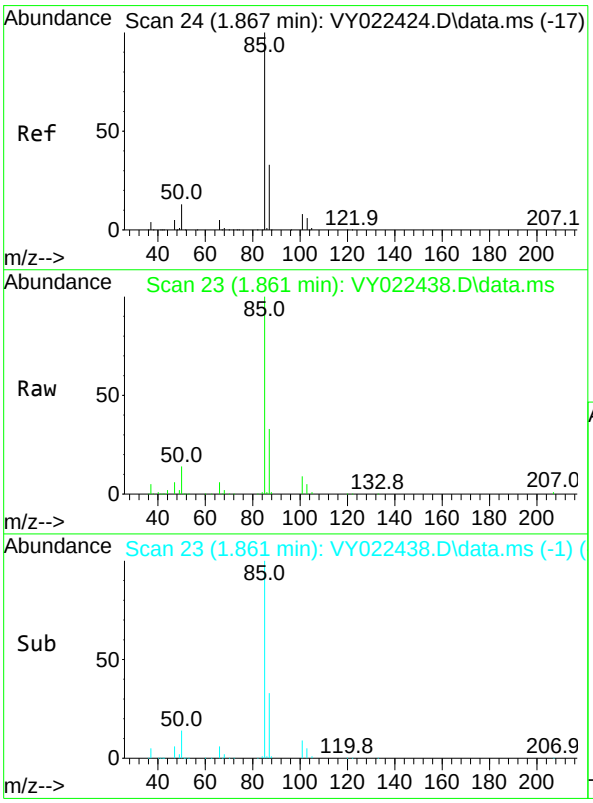
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:168 Resp: 215940

Ion	Ratio	Lower	Upper
168	100		
99	51.2	44.7	67.1

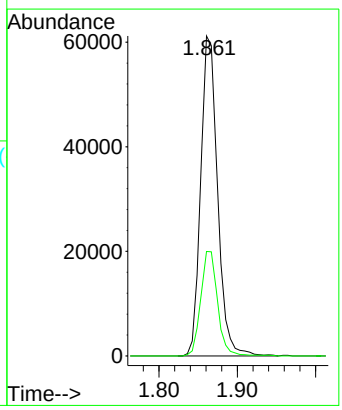


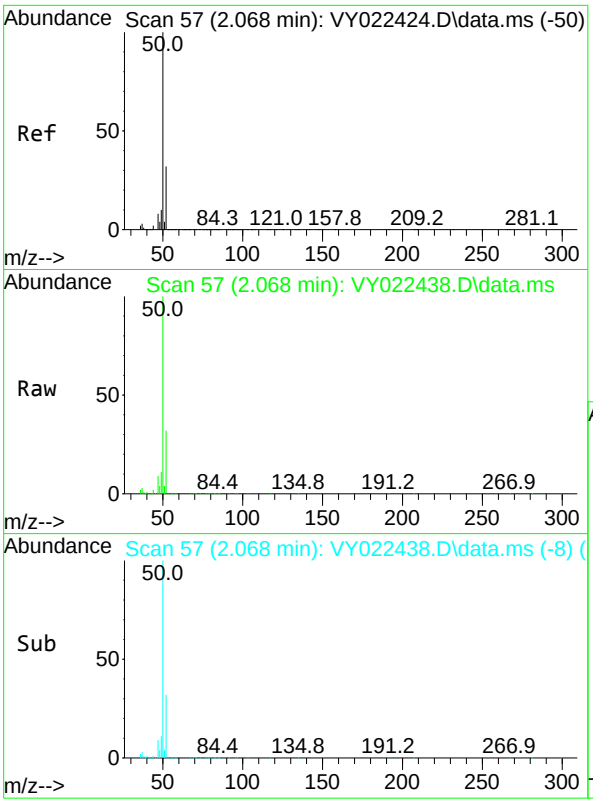


#2
Dichlorodifluoromethane
Concen: 44.534 ug/l
RT: 1.861 min Scan# 23
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 85 Resp: 91750

Ion	Ratio	Lower	Upper
85	100		
87	32.6	16.4	49.2



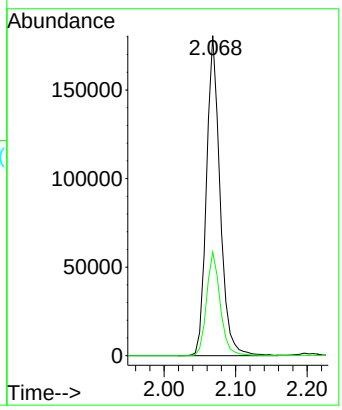


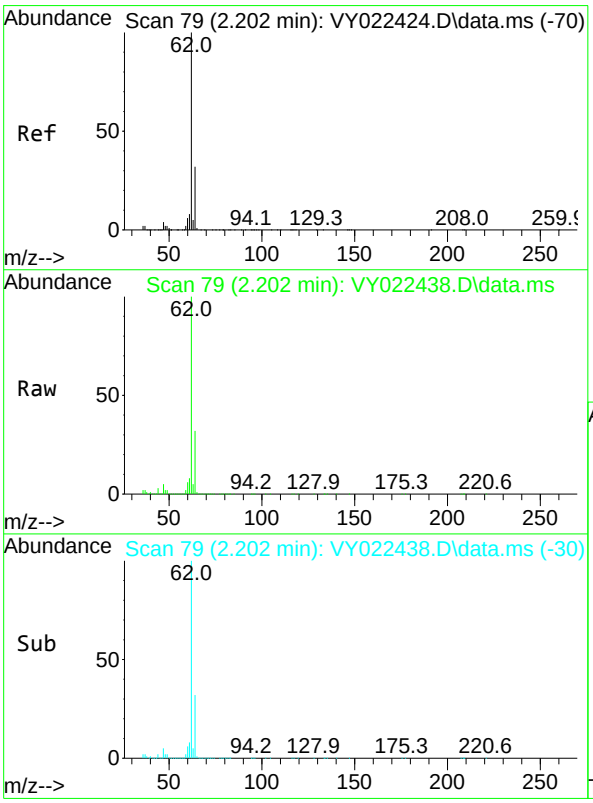
#3
Chloromethane
Concen: 47.114 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 50 Resp: 238761

Ion	Ratio	Lower	Upper
50	100		
52	32.3	25.5	38.3

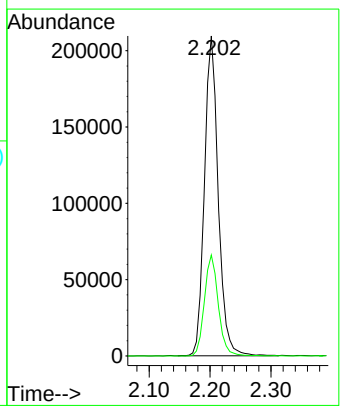


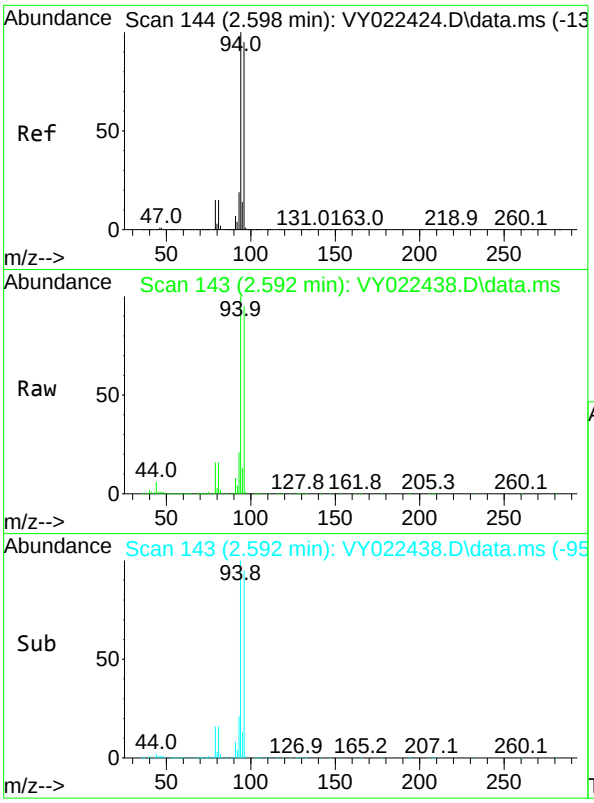


#4
Vinyl Chloride
Concen: 53.564 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.000 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 62 Resp: 329758

Ion	Ratio	Lower	Upper
62	100		
64	31.6	26.0	39.0



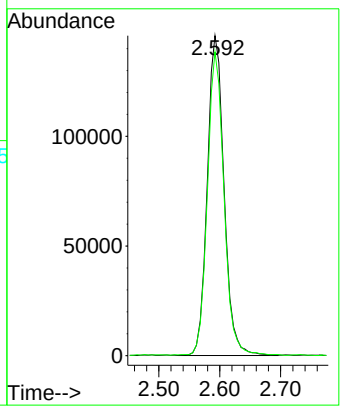


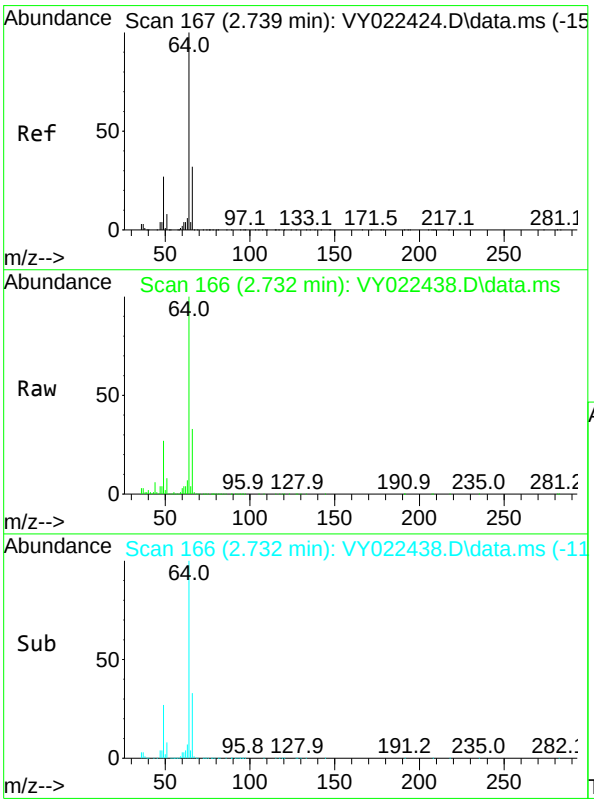
#5
Bromomethane
Concen: 49.847 ug/l
RT: 2.592 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 94 Resp: 278873

Ion	Ratio	Lower	Upper
94	100		
96	94.8	76.0	114.0

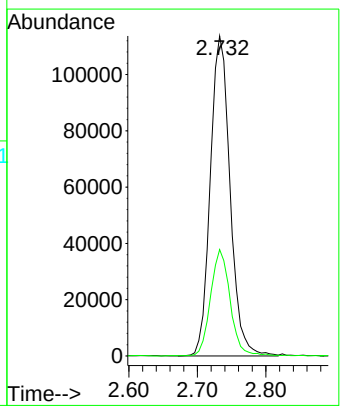


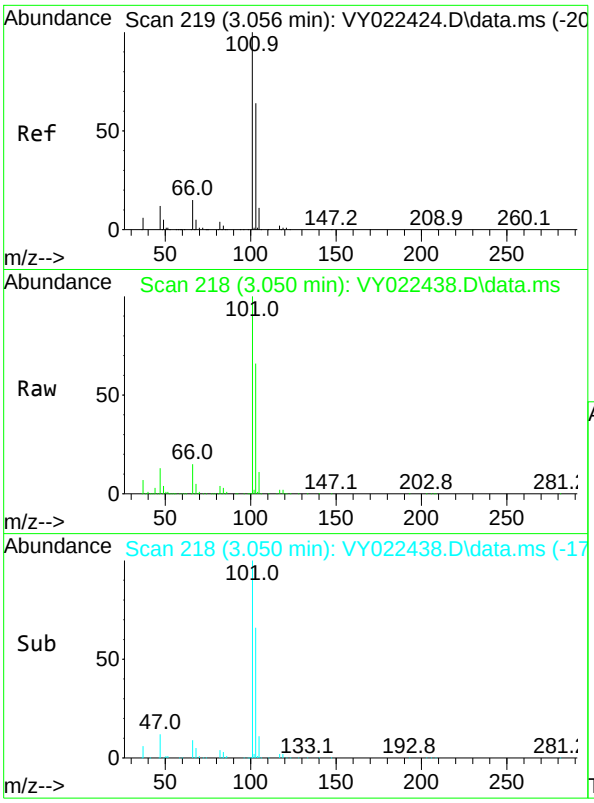


#6
Chloroethane
Concen: 56.621 ug/l
RT: 2.732 min Scan# 166
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 64 Resp: 227784

Ion	Ratio	Lower	Upper
64	100		
66	33.1	25.9	38.9



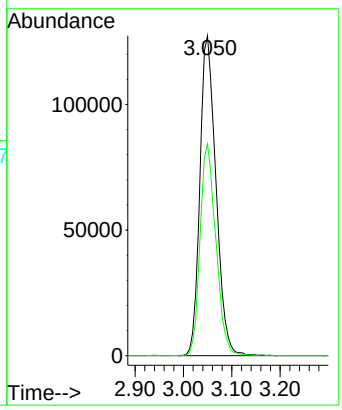


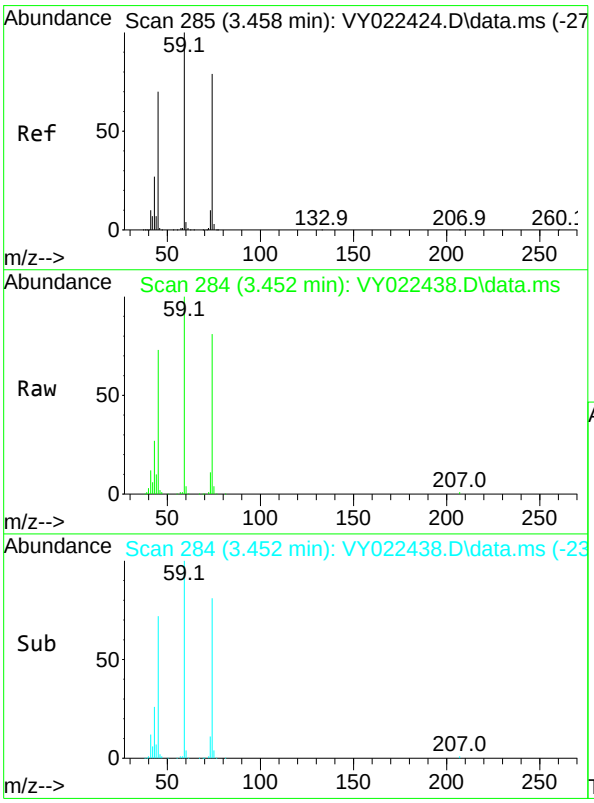
#7
Trichlorofluoromethane
Concen: 56.563 ug/l
RT: 3.050 min Scan# 21
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:101 Resp: 293801

Ion	Ratio	Lower	Upper
101	100		
103	66.2	50.9	76.3

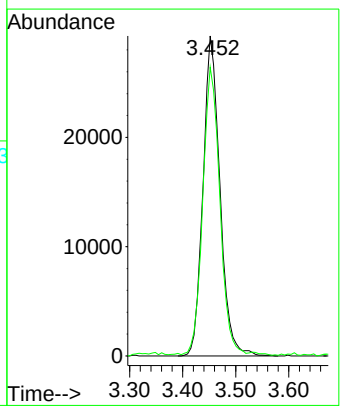


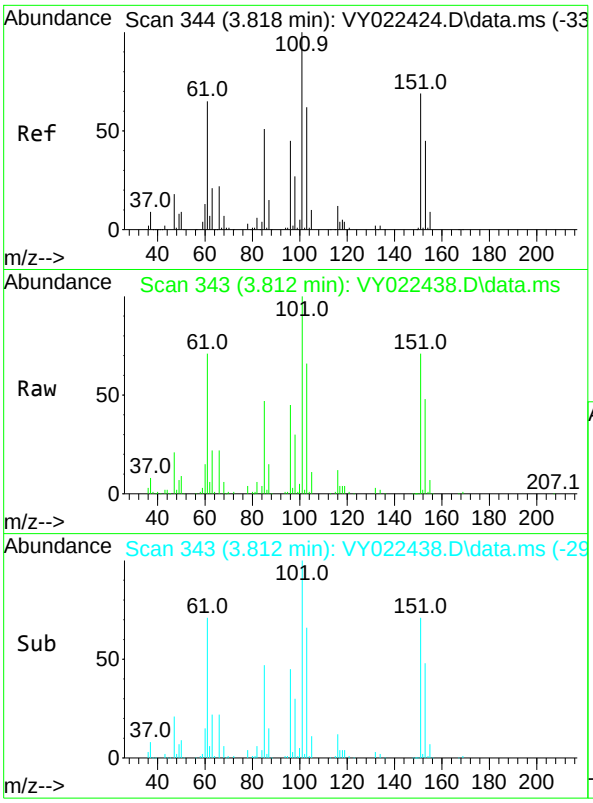


#8
Diethyl Ether
Concen: 54.247 ug/l
RT: 3.452 min Scan# 284
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 74 Resp: 64970

Ion	Ratio	Lower	Upper
74	100		
45	90.5	44.9	134.5



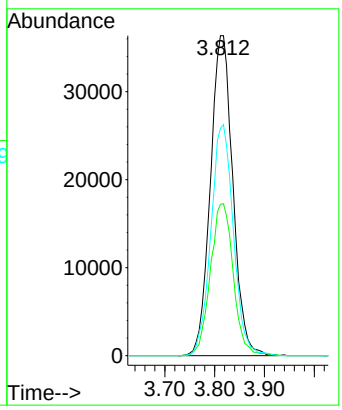


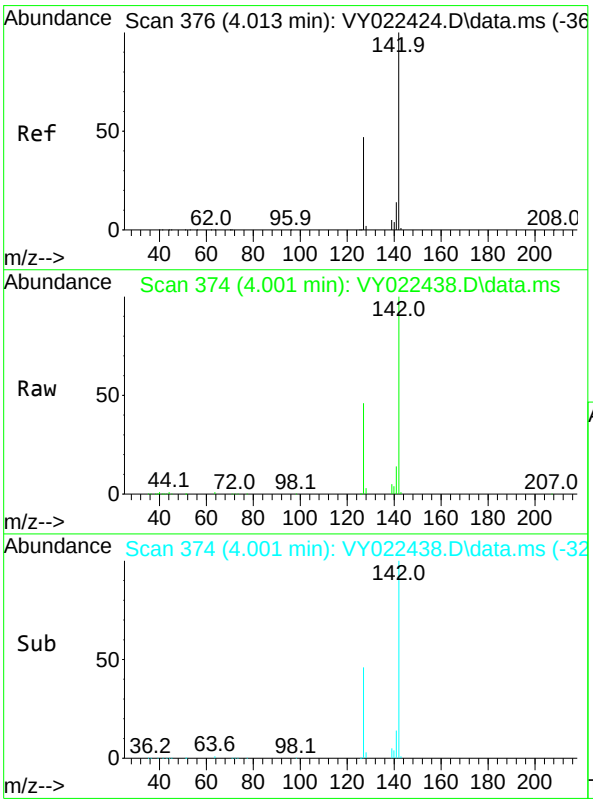
#9
1,1,2-Trichlorotrifluoroethane
Concen: 49.816 ug/l
RT: 3.812 min Scan# 34
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:101 Resp: 113521

Ion	Ratio	Lower	Upper
101	100		
85	48.5	39.2	58.8
151	72.7	58.8	88.2

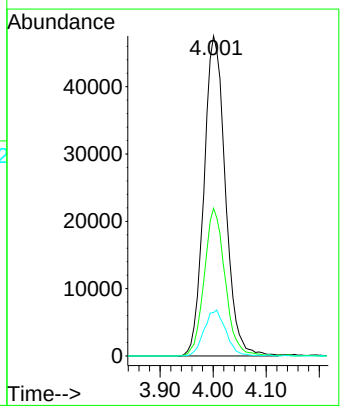


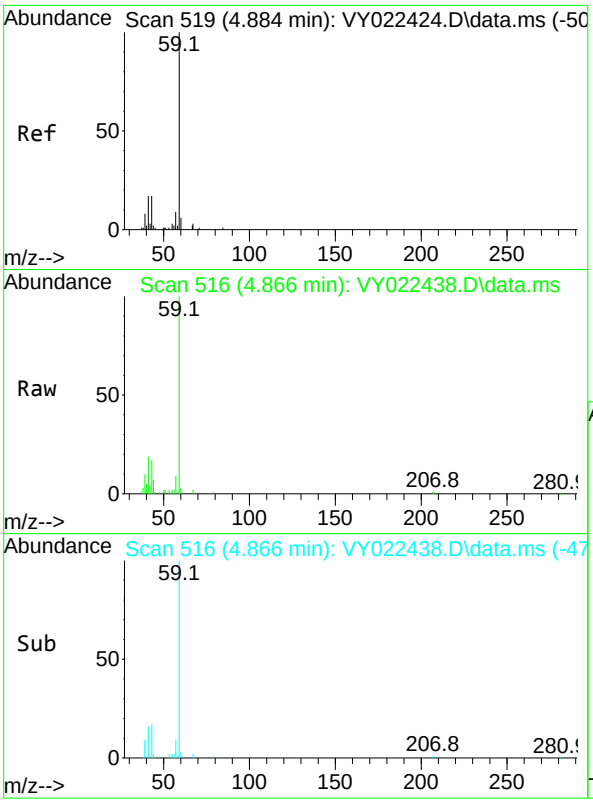


#10
Methyl Iodide
Concen: 51.761 ug/l
RT: 4.001 min Scan# 374
Delta R.T. -0.012 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion:142 Resp: 133073

Ion	Ratio	Lower	Upper
142	100		
127	45.0	36.2	54.4
141	14.6	11.6	17.4



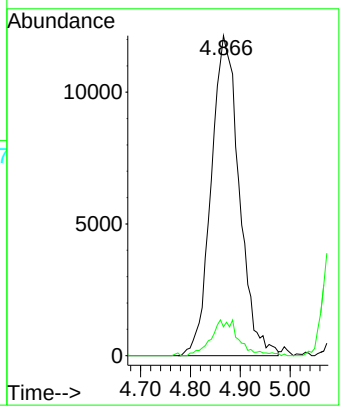


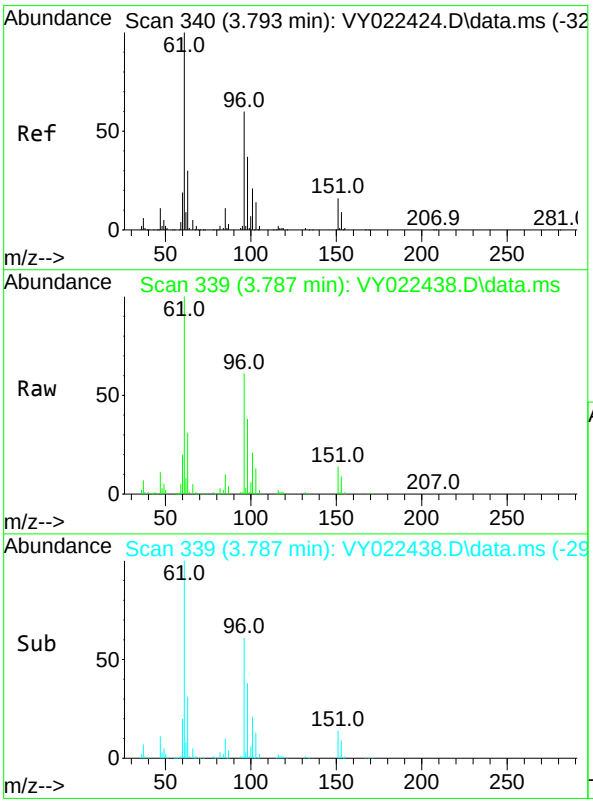
#11
Tert butyl alcohol
Concen: 296.007 ug/l
RT: 4.866 min Scan# 5
Delta R.T. -0.018 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 59 Resp: 47457

Ion	Ratio	Lower	Upper
59	100		
57	5.4	9.1	13.7#

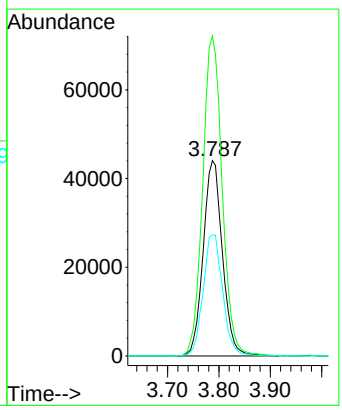


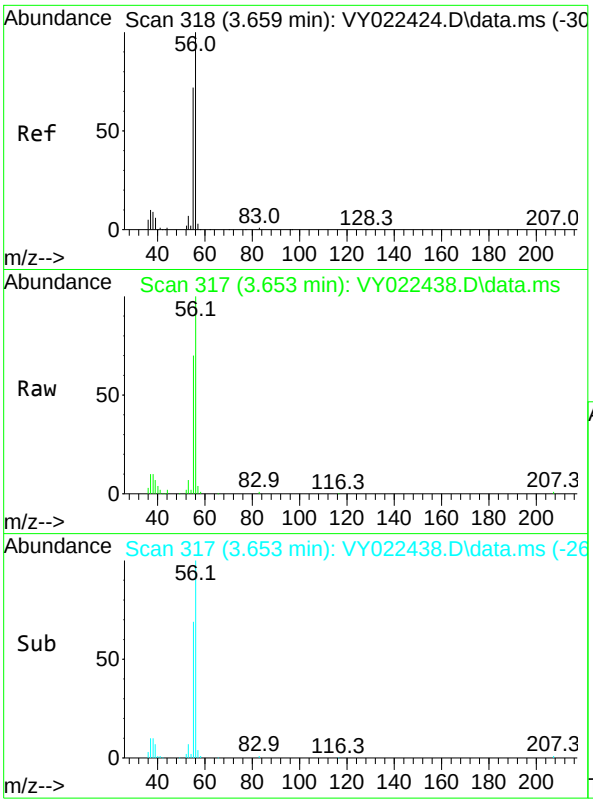


#12
1,1-Dichloroethene
Concen: 50.636 ug/l
RT: 3.787 min Scan# 339
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 96 Resp: 114561

Ion	Ratio	Lower	Upper
96	100		
61	163.5	134.1	201.1
98	62.0	50.2	75.2



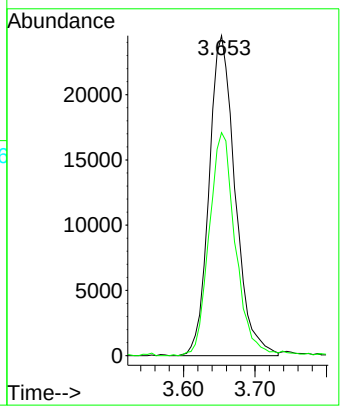


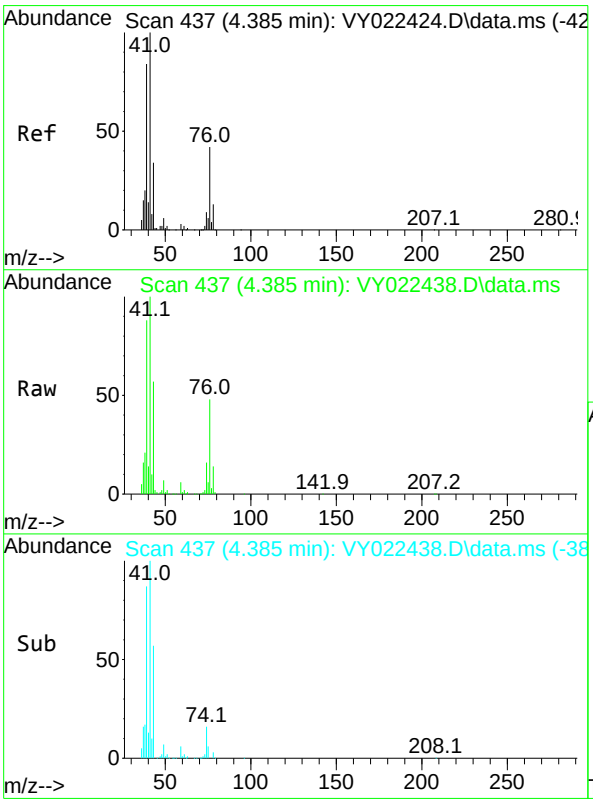
#13
Acrolein
Concen: 258.255 ug/l
RT: 3.653 min Scan# 3
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 56 Resp: 62039

Ion	Ratio	Lower	Upper
56	100		
55	69.8	56.5	84.7

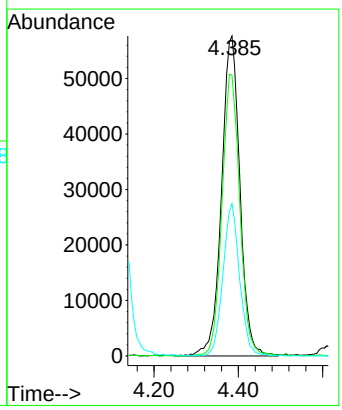


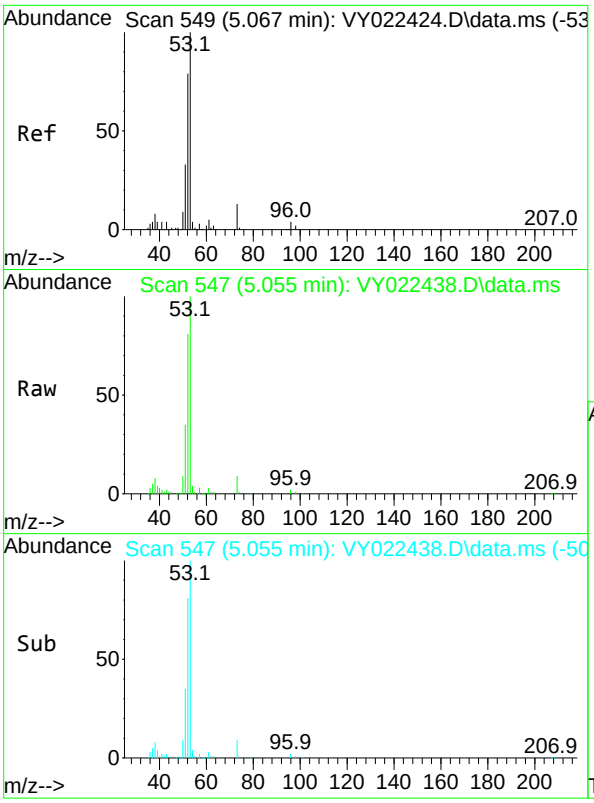


#14
Allyl chloride
Concen: 51.098 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.000 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 41 Resp: 173903

Ion	Ratio	Lower	Upper
41	100		
39	85.2	66.6	100.0
76	42.9	33.7	50.5



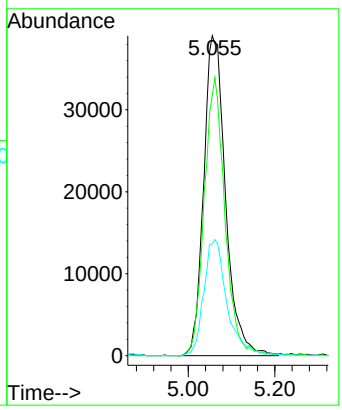


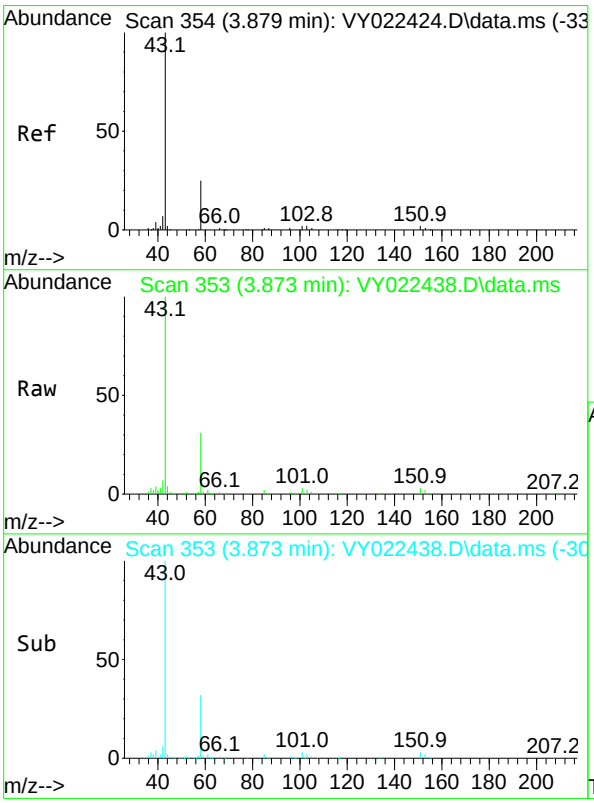
#15
Acrylonitrile
Concen: 284.055 ug/l
RT: 5.055 min Scan# 54
Delta R.T. -0.012 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 53 Resp: 137130

Ion	Ratio	Lower	Upper
53	100		
52	82.4	65.1	97.7
51	38.4	30.0	45.0

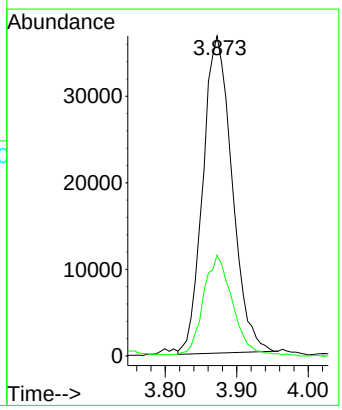


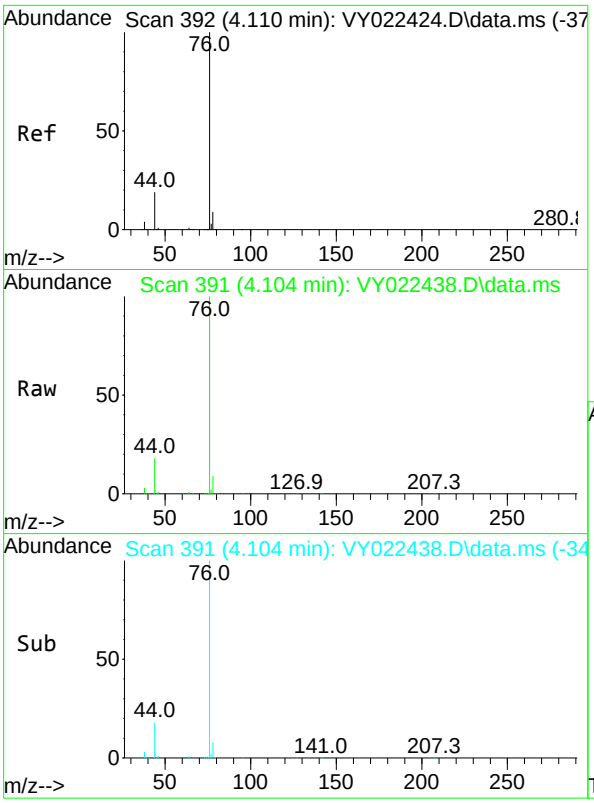


#16
Acetone
Concen: 277.421 ug/l
RT: 3.873 min Scan# 353
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 43 Resp: 103688

Ion	Ratio	Lower	Upper
43	100		
58	31.4	20.6	30.8#



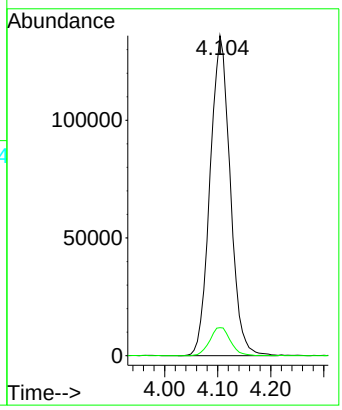


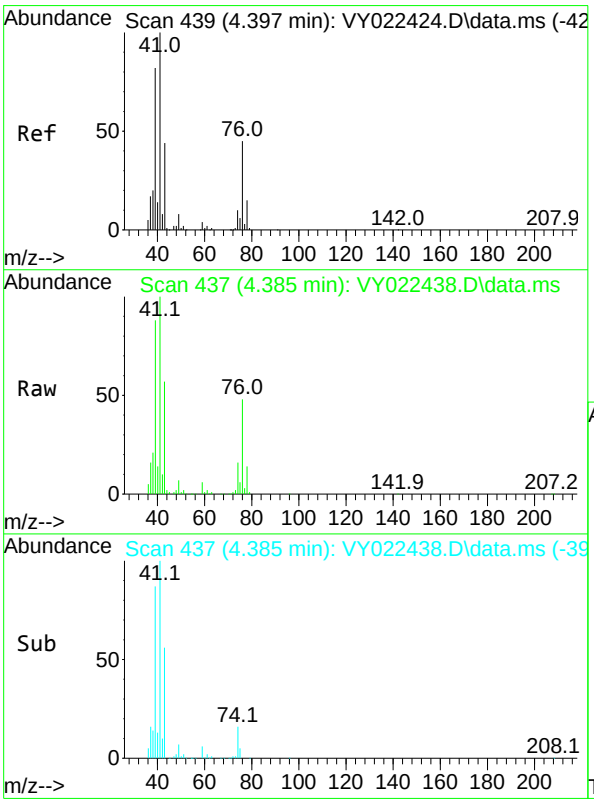
#17
Carbon Disulfide
Concen: 49.708 ug/l
RT: 4.104 min Scan# 3
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 76 Resp: 358889

Ion	Ratio	Lower	Upper
76	100		
78	8.7	7.2	10.8

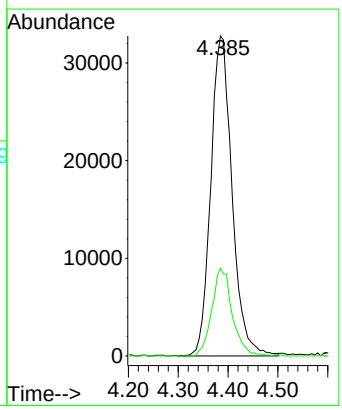


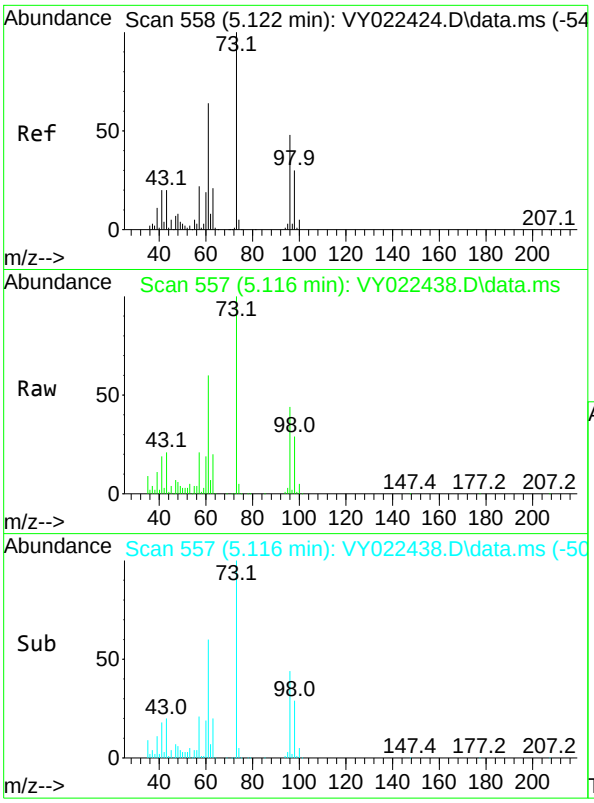


#18
Methyl Acetate
Concen: 69.436 ug/l
RT: 4.385 min Scan# 437
Delta R.T. -0.012 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 43 Resp: 97215

Ion	Ratio	Lower	Upper
43	100		
74	26.2	21.2	31.8



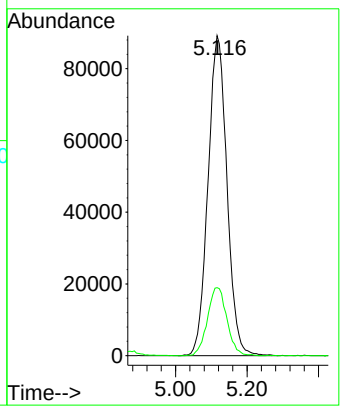


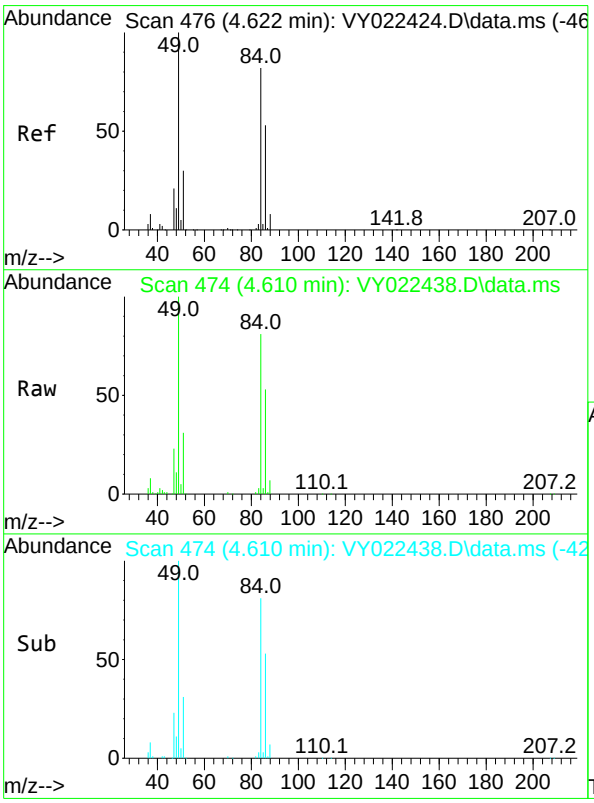
#19
Methyl tert-butyl Ether
Concen: 54.572 ug/l
RT: 5.116 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 73 Resp: 327791

Ion	Ratio	Lower	Upper
73	100		
57	21.3	17.7	26.5

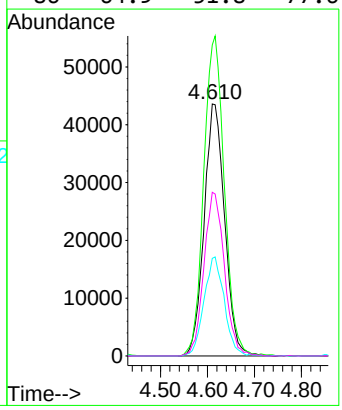


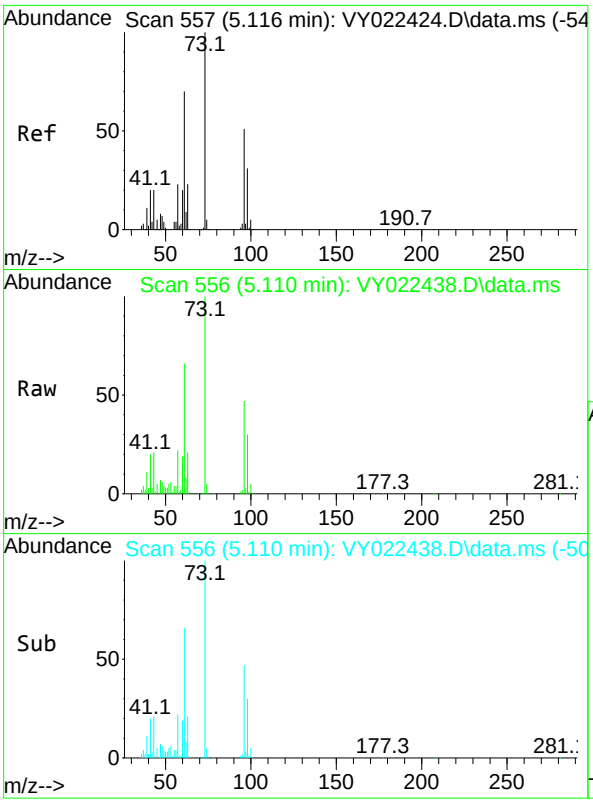


#20
Methylene Chloride
Concen: 50.049 ug/l
RT: 4.610 min Scan# 474
Delta R.T. -0.012 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 84 Resp: 132094

Ion	Ratio	Lower	Upper
84	100		
49	123.4	97.8	146.8
51	38.8	29.5	44.3
86	64.9	51.8	77.6



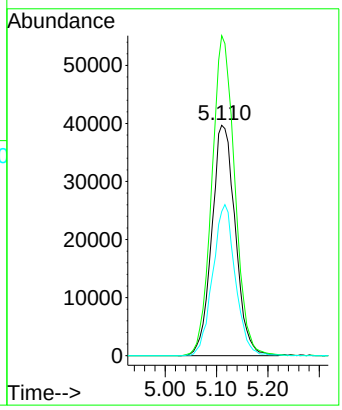


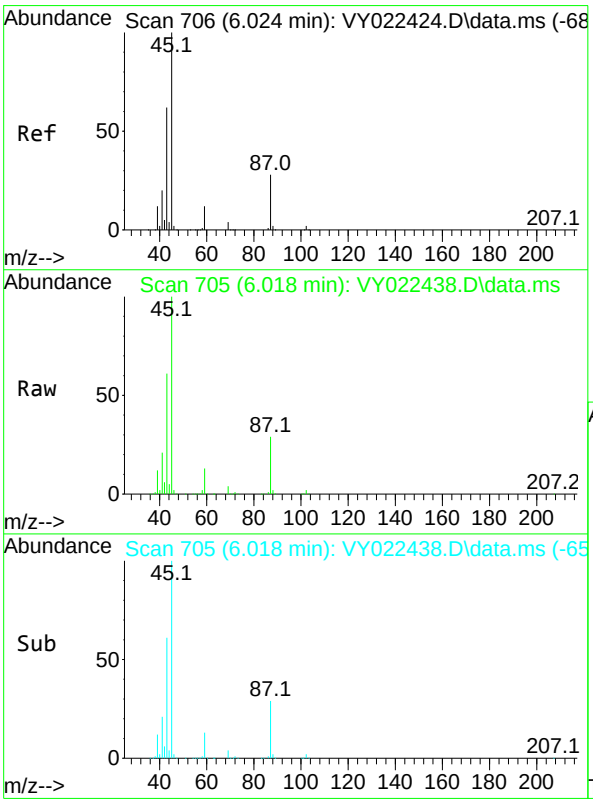
#21
trans-1,2-Dichloroethene
Concen: 51.000 ug/l
RT: 5.110 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 96 Resp: 125968

Ion	Ratio	Lower	Upper
96	100		
61	138.9	110.4	165.6
98	62.6	48.6	73.0

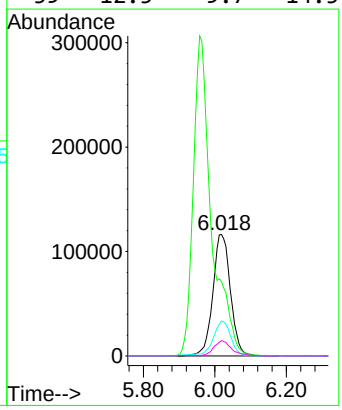


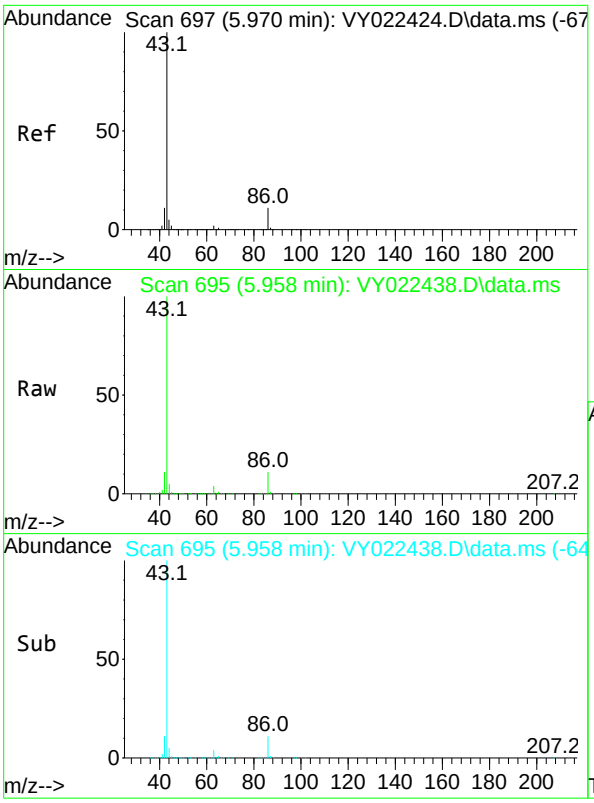


#22
Diisopropyl ether
Concen: 52.955 ug/l
RT: 6.018 min Scan# 705
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 45 Resp: 397757

Ion	Ratio	Lower	Upper
45	100		
43	60.8	49.8	74.8
87	28.8	23.0	34.6
59	12.5	9.7	14.5



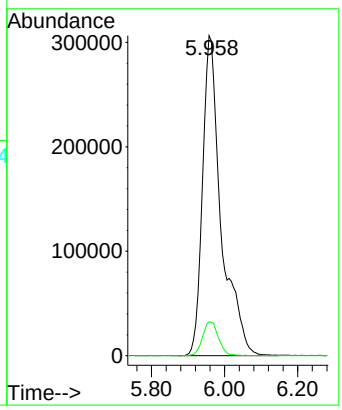


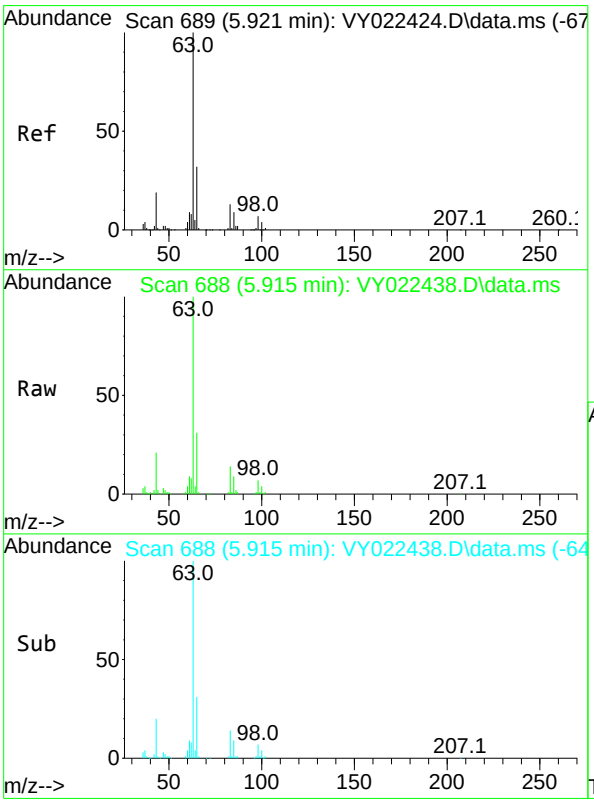
#23
Vinyl Acetate
Concen: 251.677 ug/l
RT: 5.958 min Scan# 6
Delta R.T. -0.012 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 1085430

Ion	Ratio	Lower	Upper
43	100		
86	10.6	8.8	13.2

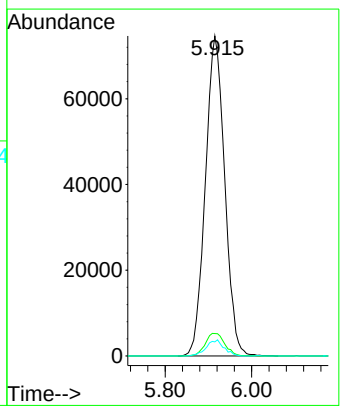


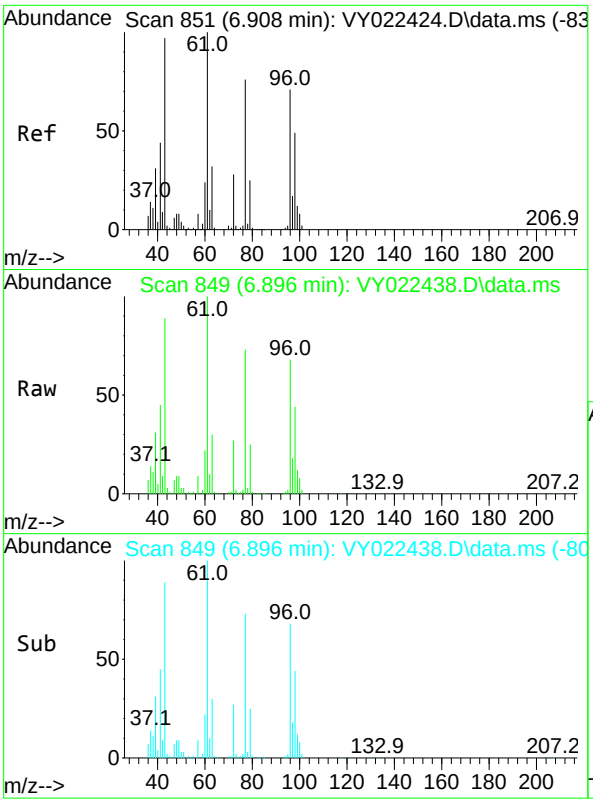


#24
1,1-Dichloroethane
Concen: 52.168 ug/l
RT: 5.915 min Scan# 688
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 63 Resp: 231541

Ion	Ratio	Lower	Upper
63	100		
98	7.0	3.5	10.5
100	4.4	2.1	6.5



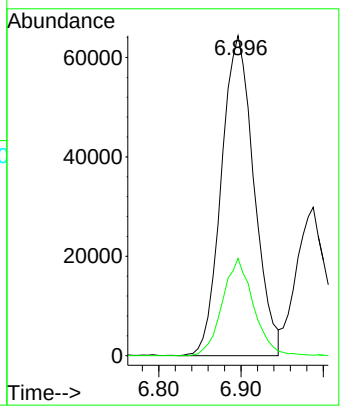


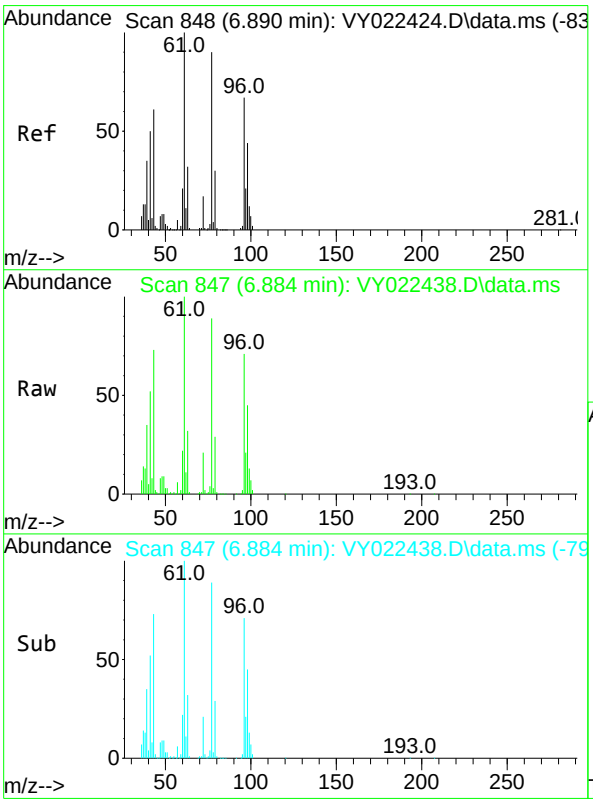
#25
2-Butanone
Concen: 285.333 ug/l
RT: 6.896 min Scan# 84
Delta R.T. -0.012 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 177609

Ion	Ratio	Lower	Upper
43	100		
72	30.4	22.8	34.2

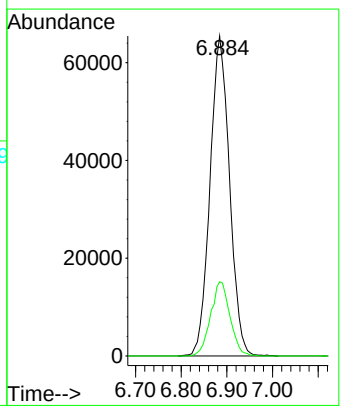


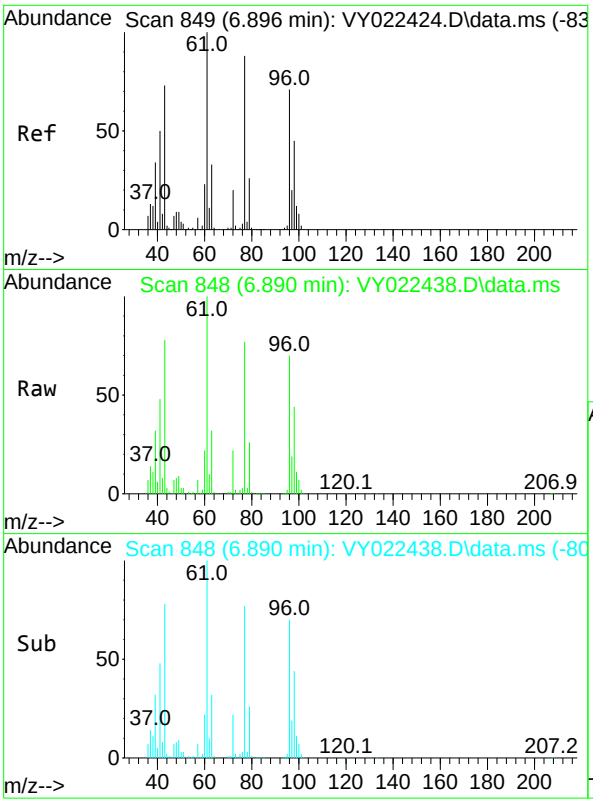


#26
2,2-Dichloropropane
Concen: 48.319 ug/l
RT: 6.884 min Scan# 847
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 77 Resp: 194187

Ion	Ratio	Lower	Upper
77	100		
97	23.0	11.6	34.7



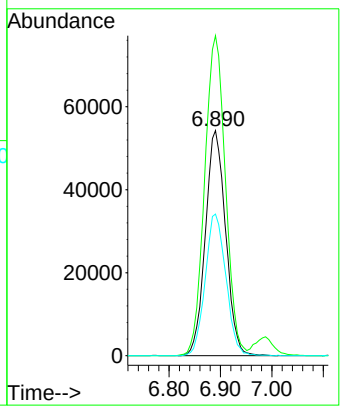


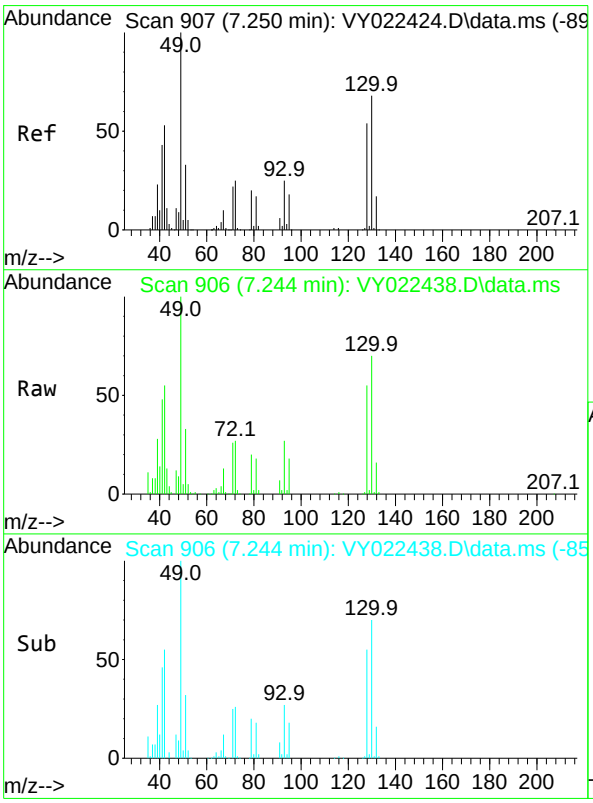
#27
cis-1,2-Dichloroethene
Concen: 51.999 ug/l
RT: 6.890 min Scan# 84
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 96 Resp: 148685

Ion	Ratio	Lower	Upper
96	100		
61	145.4	0.0	292.0
98	64.3	0.0	131.0

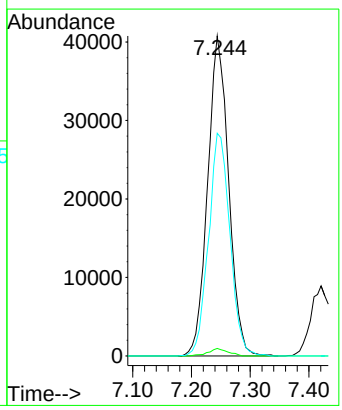


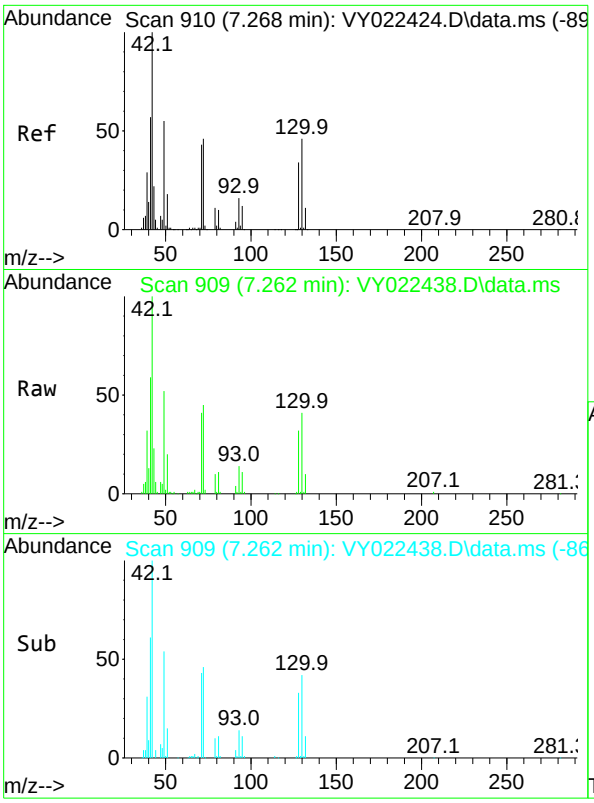


#28
Bromochloromethane
Concen: 54.514 ug/l
RT: 7.244 min Scan# 906
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 49 Resp: 101033

Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	4.0
130	71.1	56.9	85.3



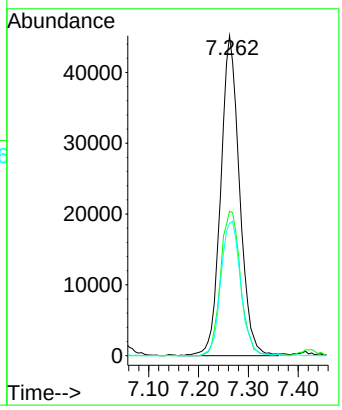


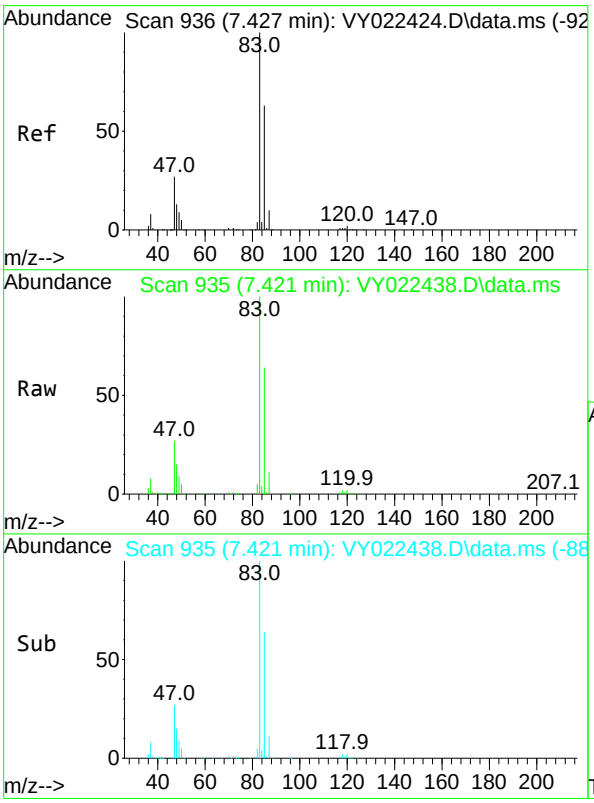
#29
Tetrahydrofuran
Concen: 285.450 ug/l
RT: 7.262 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 42 Resp: 118500

Ion	Ratio	Lower	Upper
42	100		
72	47.7	37.7	56.5
71	44.4	34.7	52.1

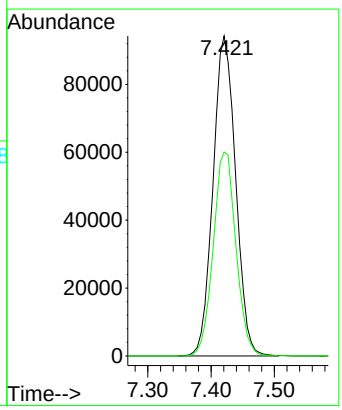


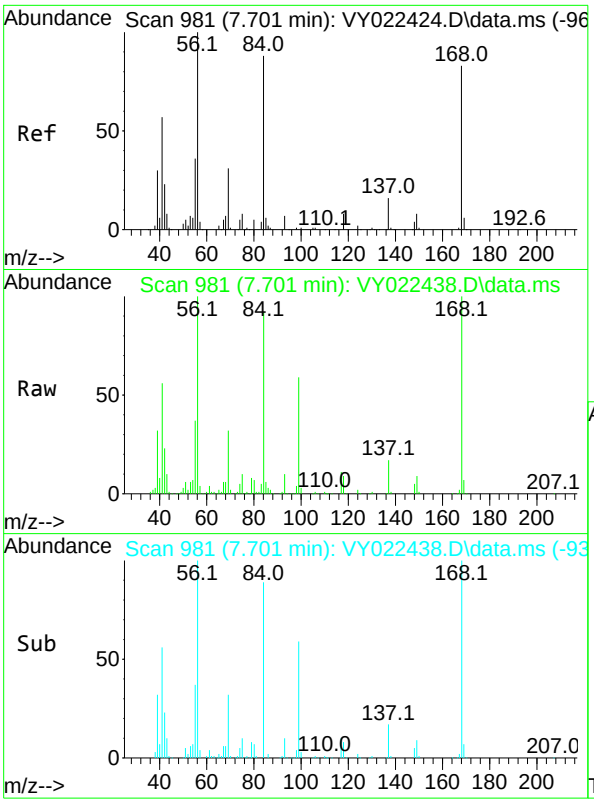


#30
Chloroform
Concen: 53.403 ug/l
RT: 7.421 min Scan# 935
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 83 Resp: 233553

Ion	Ratio	Lower	Upper
83	100		
85	63.7	50.1	75.1



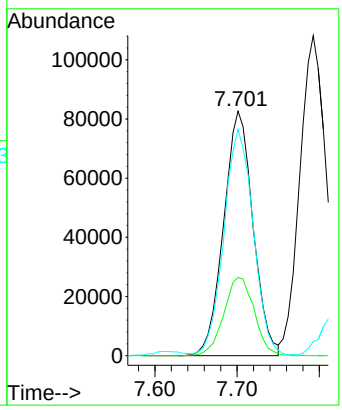


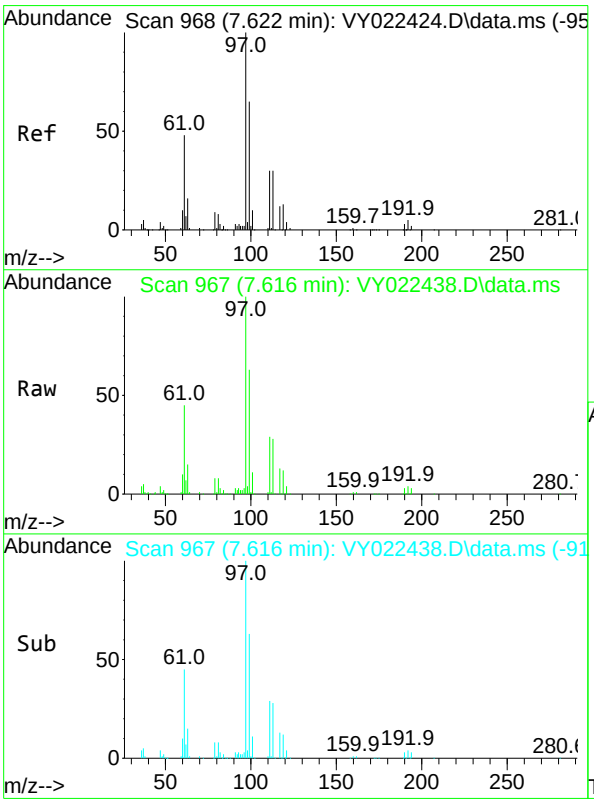
#31
Cyclohexane
Concen: 46.951 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 56 Resp: 205414

Ion	Ratio	Lower	Upper
56	100		
69	32.0	24.6	36.8
84	91.1	70.4	105.6

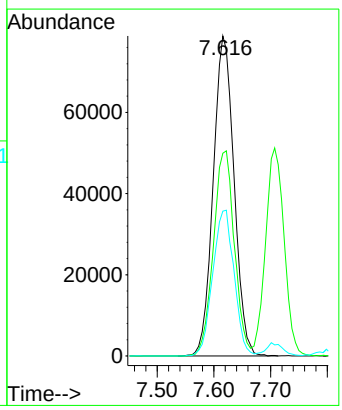


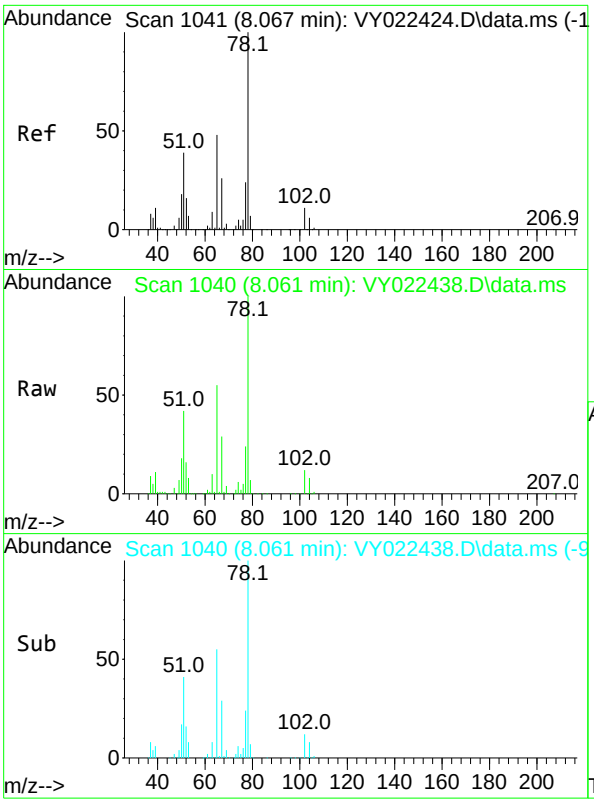


#32
1,1,1-Trichloroethane
Concen: 50.648 ug/l
RT: 7.616 min Scan# 967
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 97 Resp: 201031

Ion	Ratio	Lower	Upper
97	100		
99	64.6	51.3	76.9
61	46.8	37.3	55.9



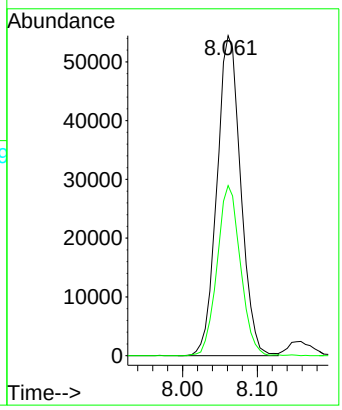


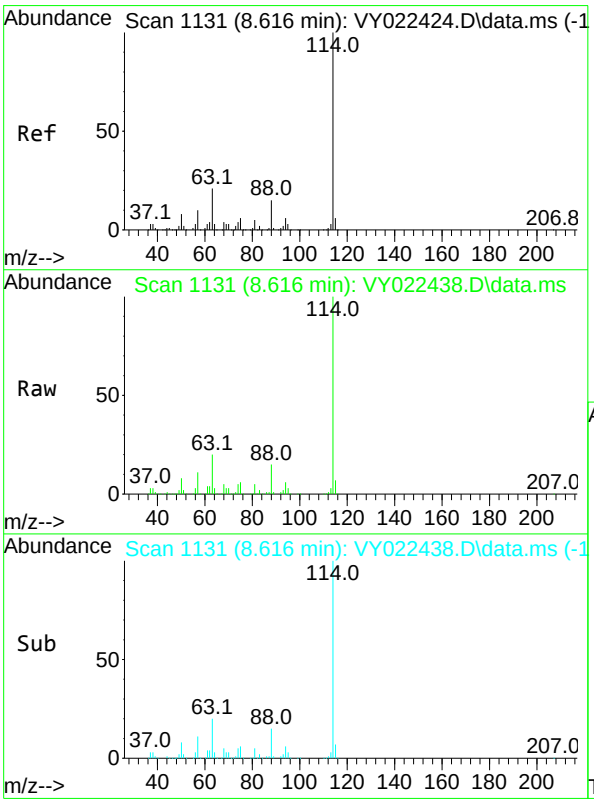
#33
1,2-Dichloroethane-d4
Concen: 53.051 ug/l
RT: 8.061 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 65 Resp: 120665

Ion	Ratio	Lower	Upper
65	100		
67	52.0	0.0	104.4

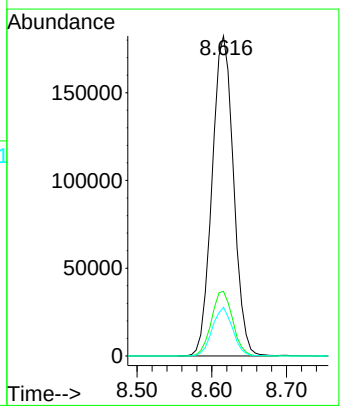


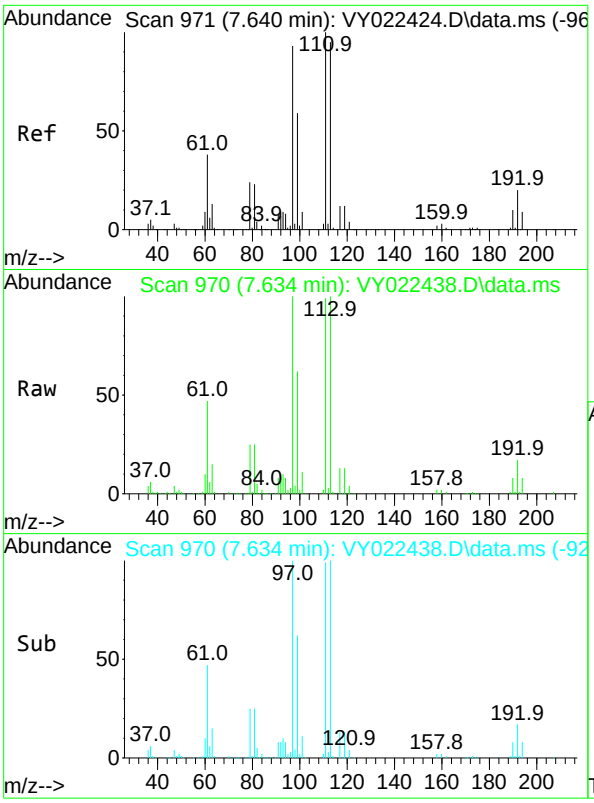


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion:114 Resp: 364513

Ion	Ratio	Lower	Upper
114	100		
63	20.2	0.0	42.6
88	15.2	0.0	29.4



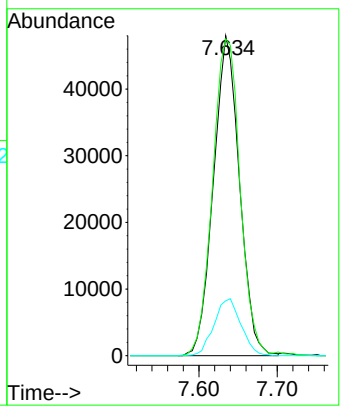


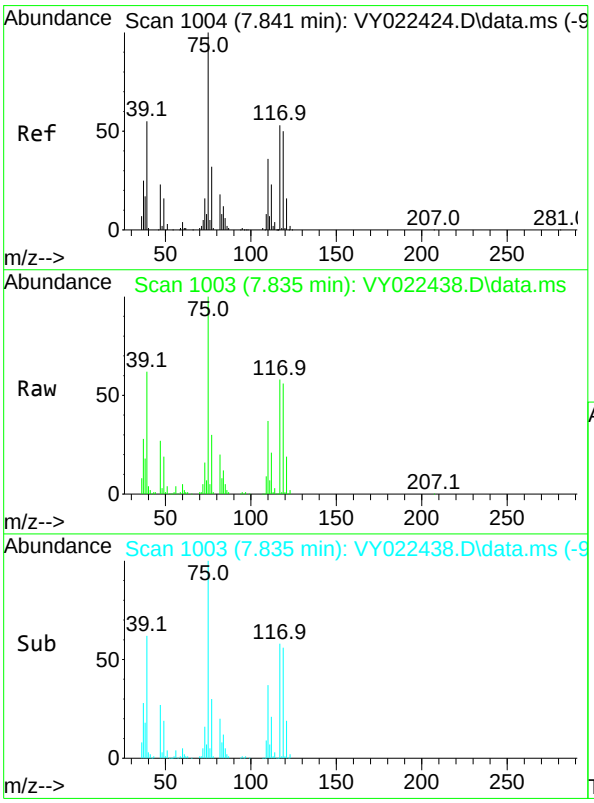
#35
Dibromofluoromethane
Concen: 51.926 ug/l
RT: 7.634 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:113 Resp: 110847

Ion	Ratio	Lower	Upper
113	100		
111	104.4	82.4	123.6
192	18.4	15.2	22.8

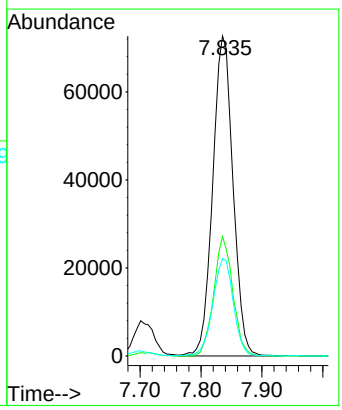


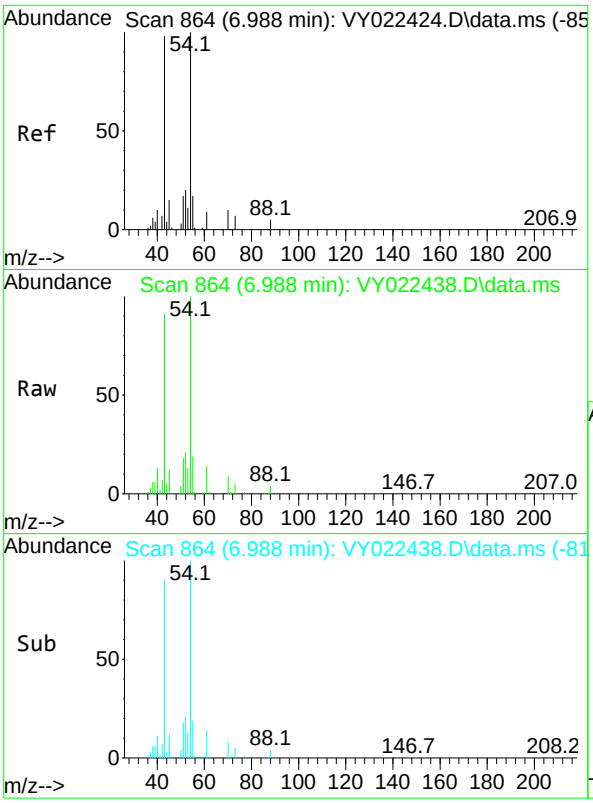


#36
1,1-Dichloropropene
Concen: 49.665 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 75 Resp: 168238

Ion	Ratio	Lower	Upper
75	100		
110	35.1	17.1	51.2
77	30.8	25.1	37.7



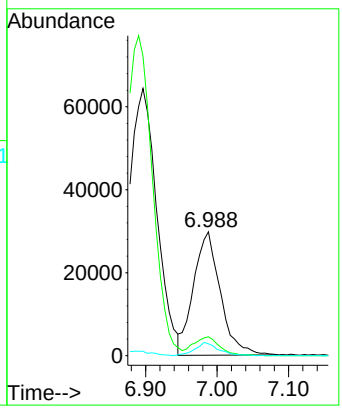


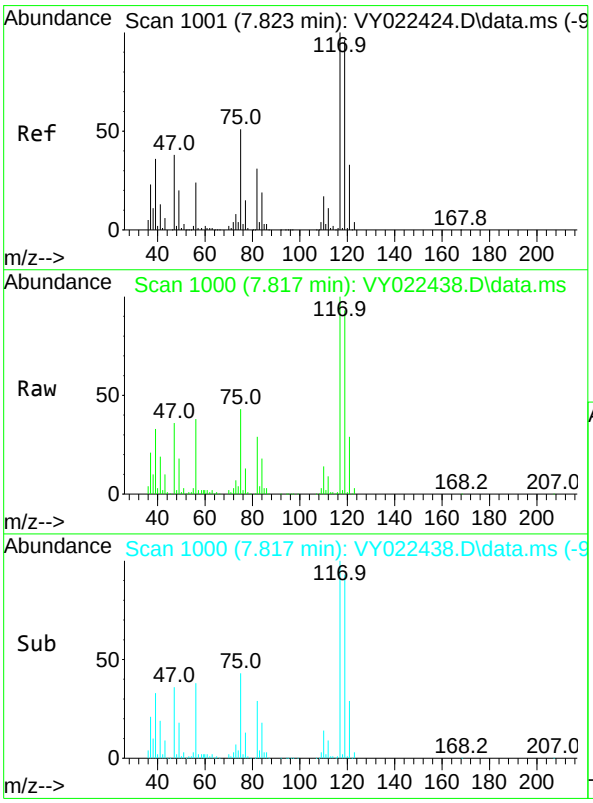
#37
Ethyl Acetate
Concen: 53.869 ug/l
RT: 6.988 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 77550

Ion	Ratio	Lower	Upper
43	100		
61	15.1	11.7	17.5
70	9.3	7.8	11.6

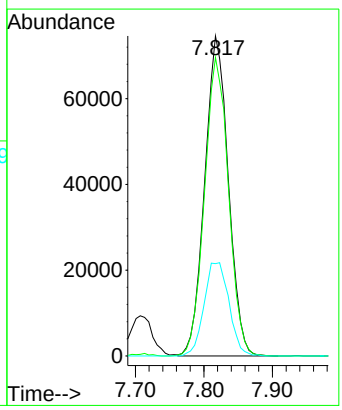


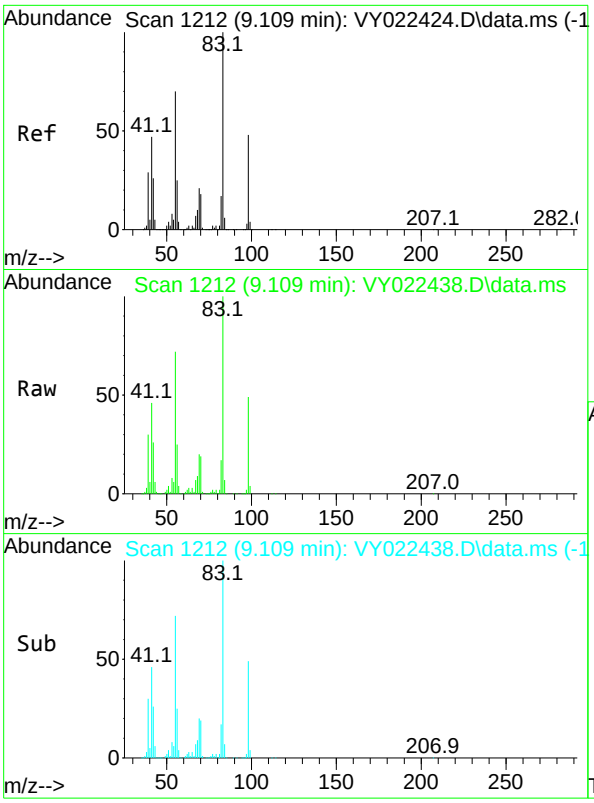


#38
Carbon Tetrachloride
Concen: 50.728 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion:117 Resp: 179005

Ion	Ratio	Lower	Upper
117	100		
119	93.3	76.3	114.5
121	28.8	26.1	39.1



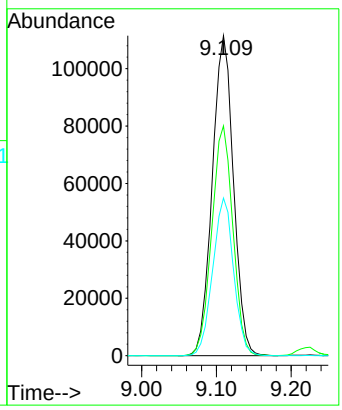


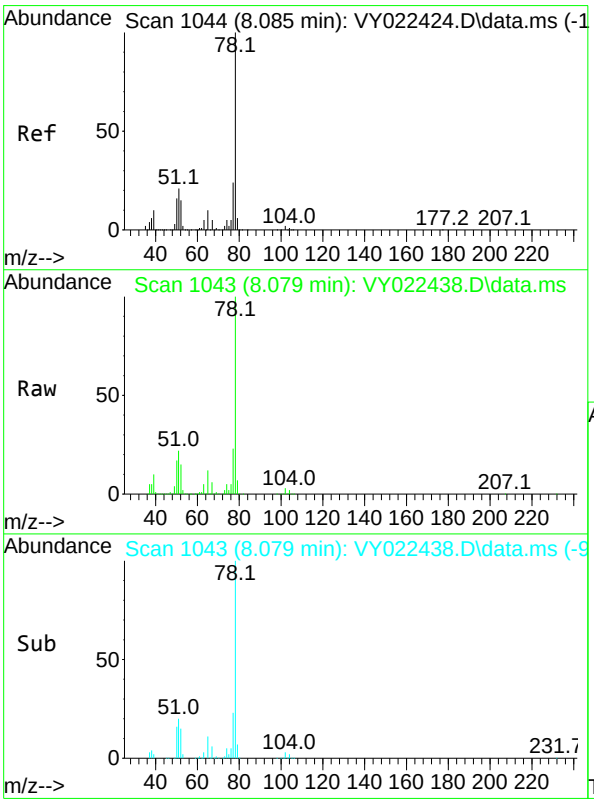
#39
Methylcyclohexane
Concen: 48.915 ug/l
RT: 9.109 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 220257

Ion	Ratio	Lower	Upper
83	100		
55	71.8	56.2	84.2
98	49.2	38.4	57.6

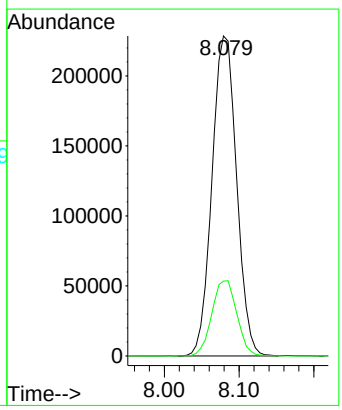


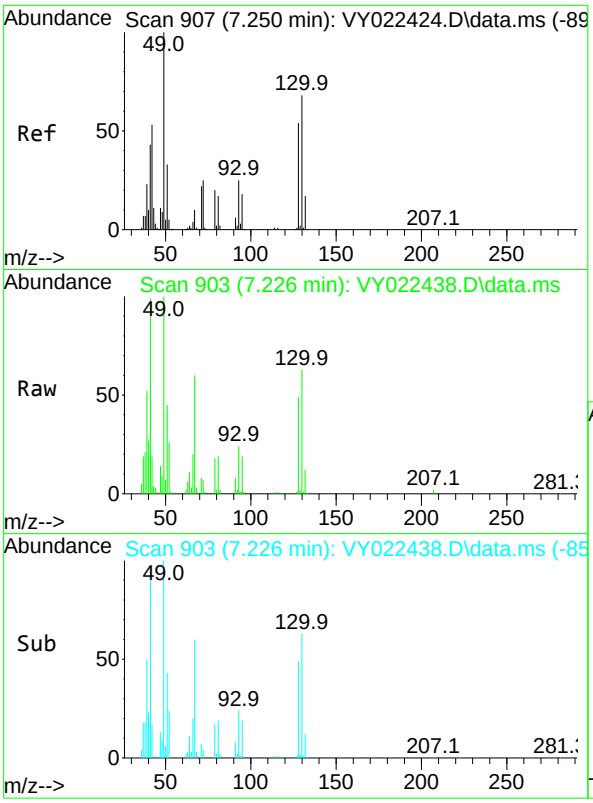


#40
Benzene
Concen: 51.884 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 78 Resp: 522962

Ion	Ratio	Lower	Upper
78	100		
77	23.4	19.4	29.2



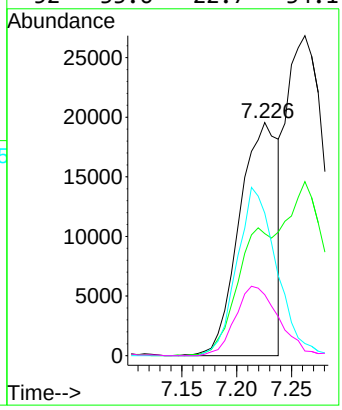


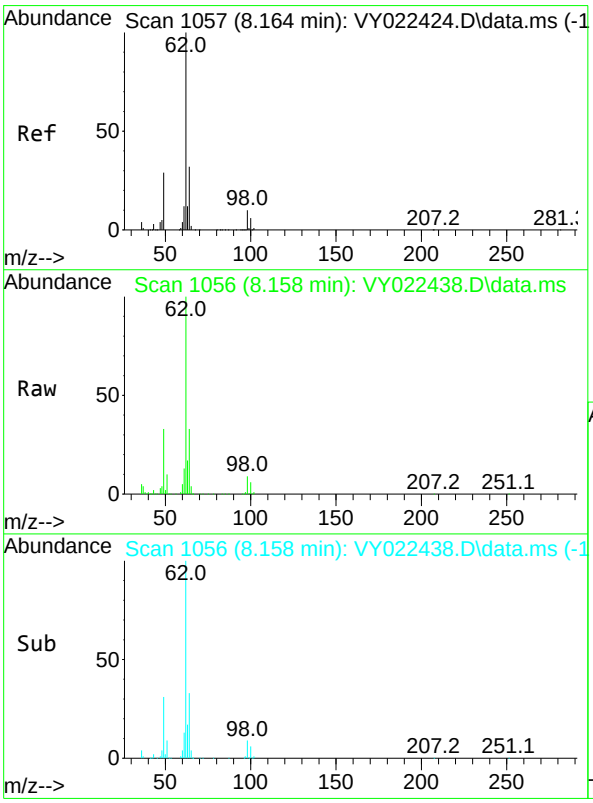
#41
Methacrylonitrile
Concen: 54.858 ug/l
RT: 7.226 min Scan# 9
Delta R.T. -0.024 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 41 Resp: 47932

Ion	Ratio	Lower	Upper
41	100		
39	49.3	40.4	60.6
67	73.9	53.0	79.4
52	33.6	22.7	34.1

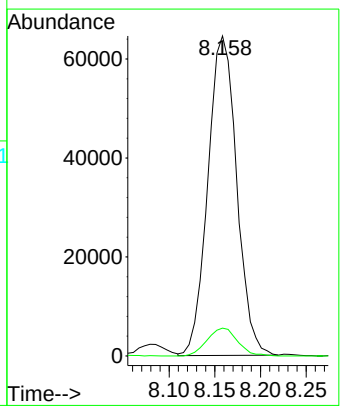


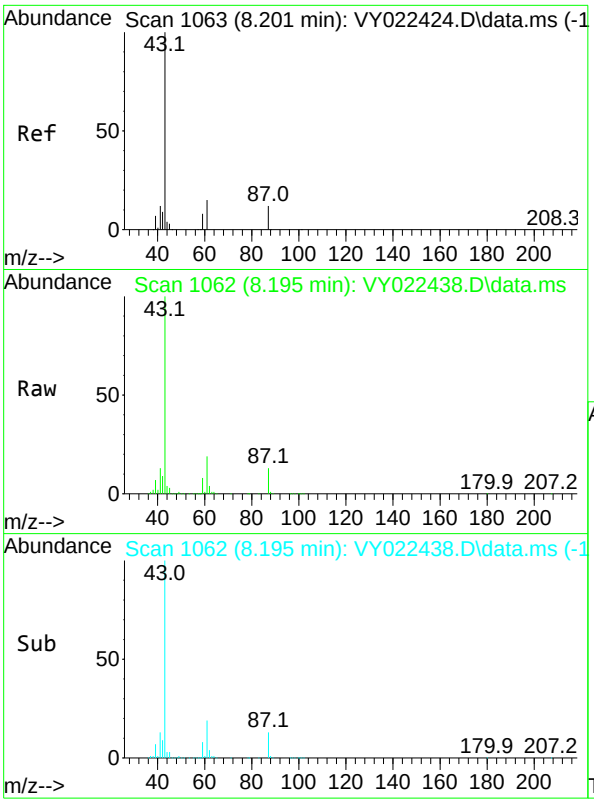


#42
1,2-Dichloroethane
Concen: 53.251 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 62 Resp: 141760

Ion	Ratio	Lower	Upper
62	100		
98	9.2	0.0	18.4



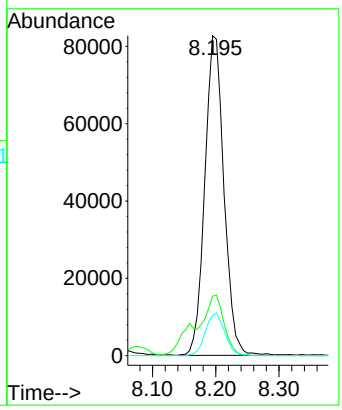


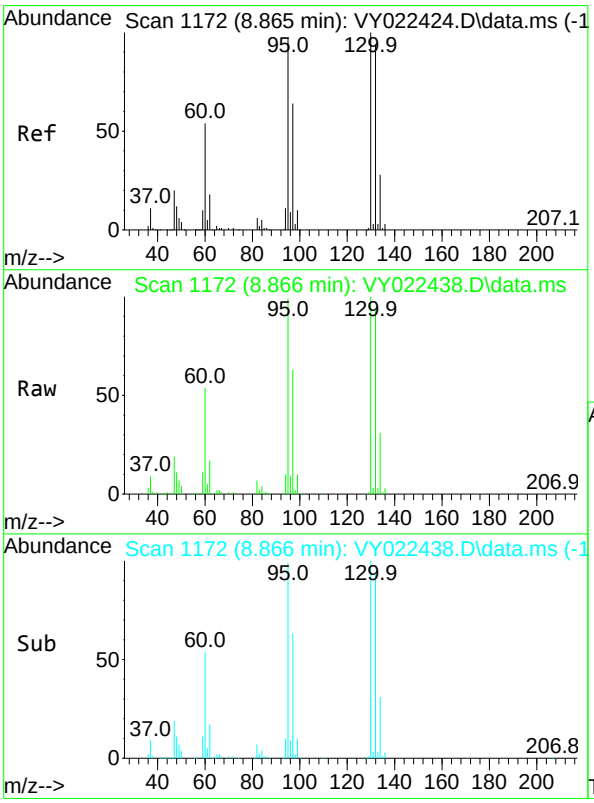
#43
Isopropyl Acetate
Concen: 55.374 ug/l
RT: 8.195 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 174194

Ion	Ratio	Lower	Upper
43	100		
61	19.2	15.4	23.0
87	13.5	10.6	15.8

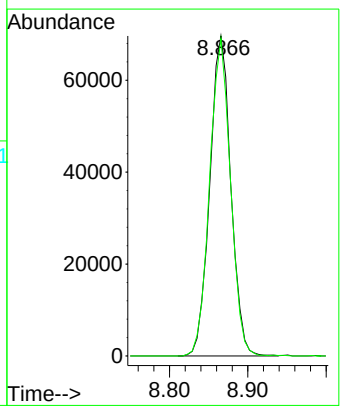


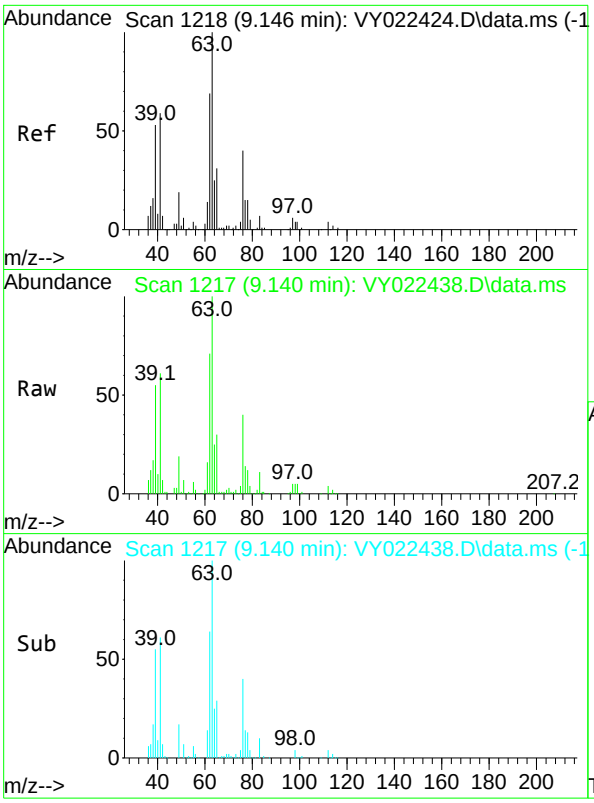


#44
Trichloroethene
Concen: 52.154 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. 0.000 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion:130 Resp: 129953

Ion	Ratio	Lower	Upper
130	100		
95	99.1	0.0	194.8



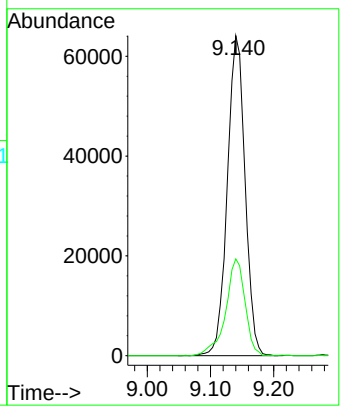


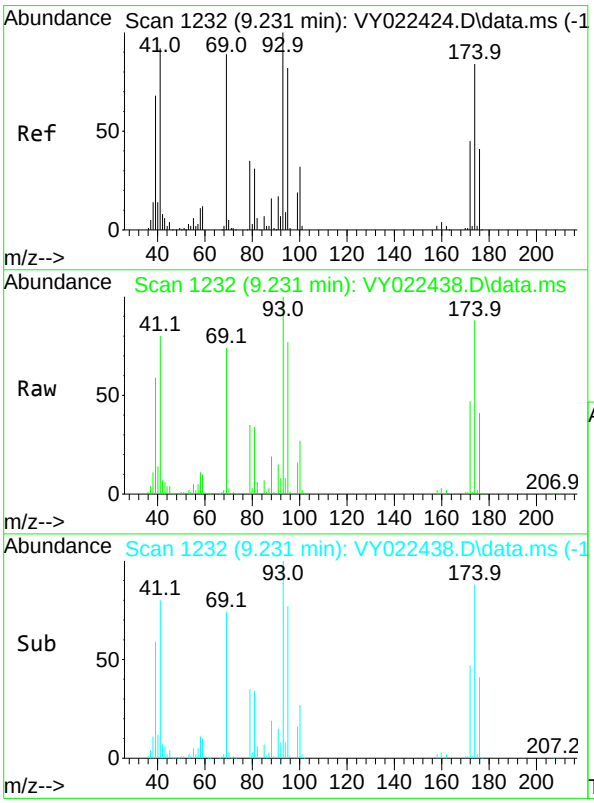
#45
1,2-Dichloropropane
Concen: 52.819 ug/l
RT: 9.140 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 63 Resp: 125086

Ion	Ratio	Lower	Upper
63	100		
65	30.2	25.1	37.7

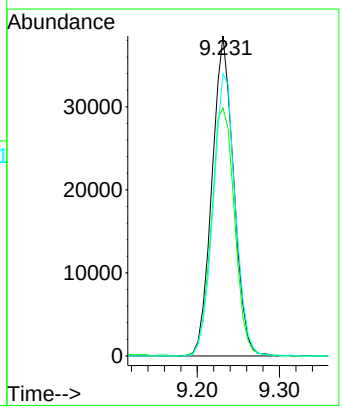


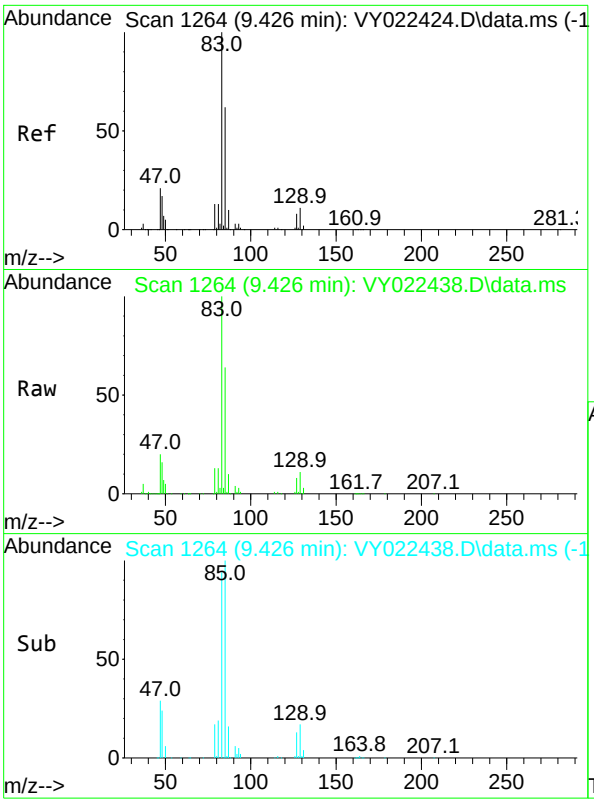


#46
Dibromomethane
Concen: 53.469 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.000 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 93 Resp: 70737

Ion	Ratio	Lower	Upper
93	100		
95	82.8	66.2	99.2
174	90.2	71.1	106.7



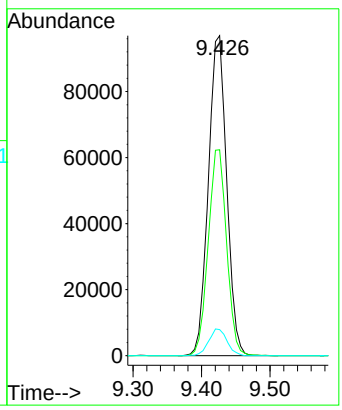


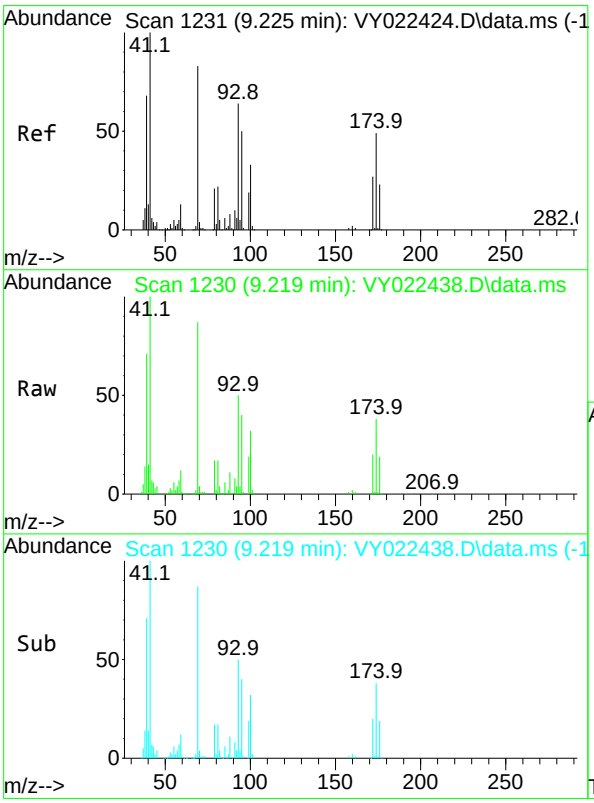
#47
Bromodichloromethane
Concen: 52.966 ug/l
RT: 9.426 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 180193

Ion	Ratio	Lower	Upper
83	100		
85	64.4	49.8	74.6
127	8.2	6.6	9.8

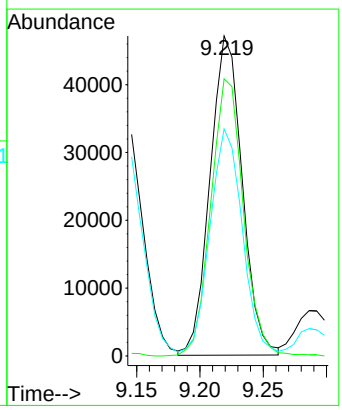


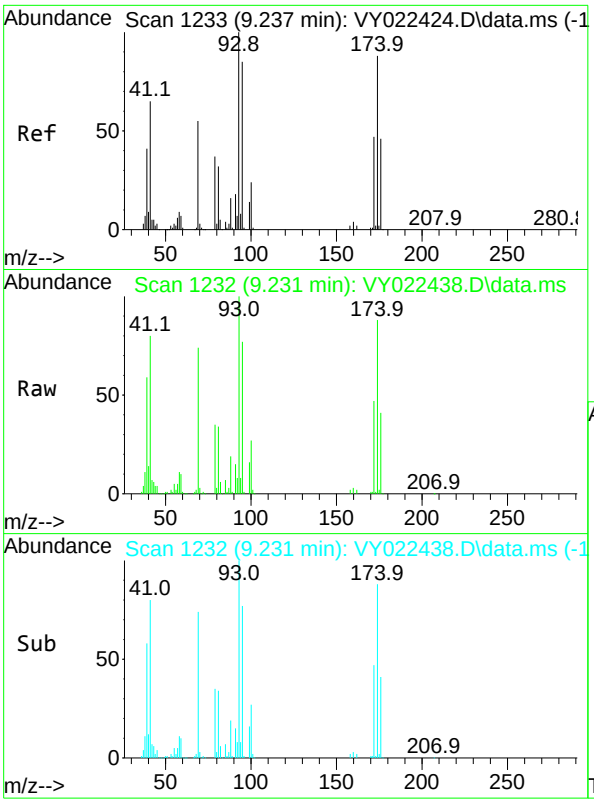


#48
Methyl methacrylate
Concen: 56.964 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 41 Resp: 83183

Ion	Ratio	Lower	Upper
41	100		
69	87.8	70.3	105.5
39	69.7	55.4	83.0



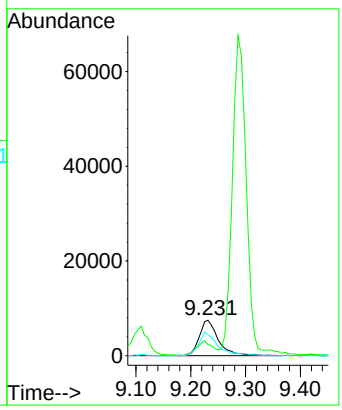


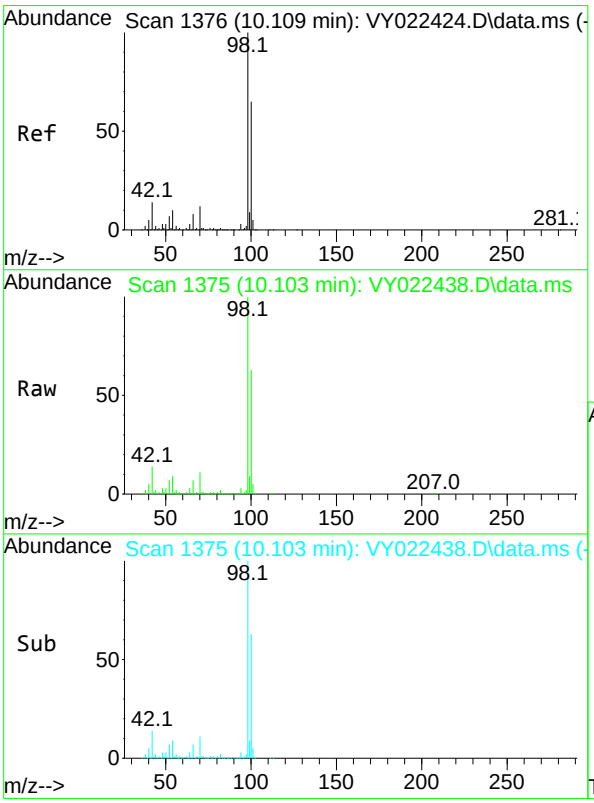
#49
1,4-Dioxane
Concen: 1243.469 ug/l
RT: 9.231 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 88 Resp: 18170

Ion	Ratio	Lower	Upper
88	100		
43	32.5	26.9	40.3
58	66.6	55.8	83.6

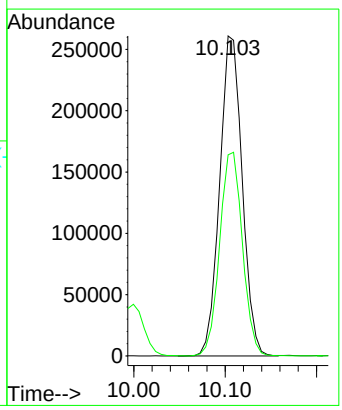


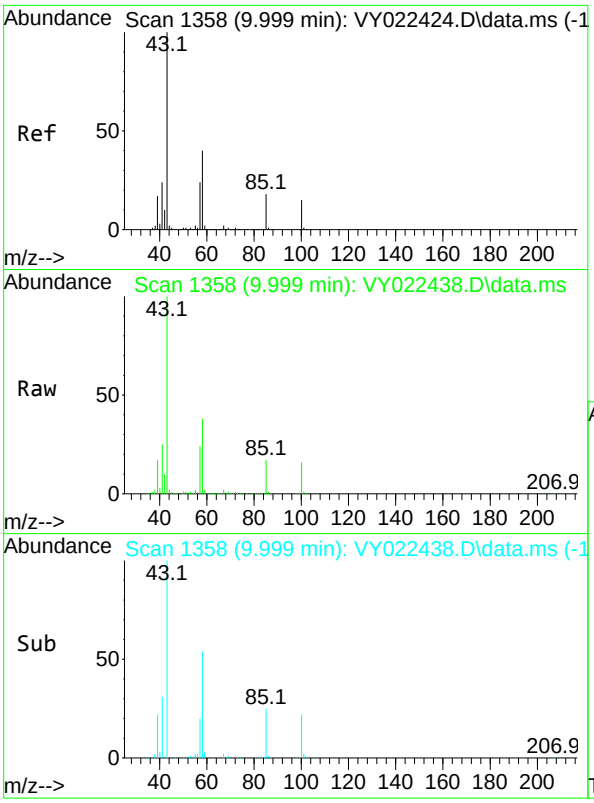


#50
Toluene-d8
Concen: 51.398 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 98 Resp: 447277

Ion	Ratio	Lower	Upper
98	100		
100	64.4	52.2	78.2



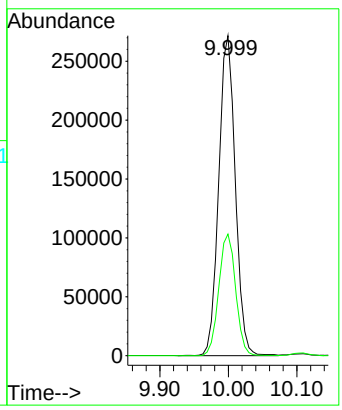


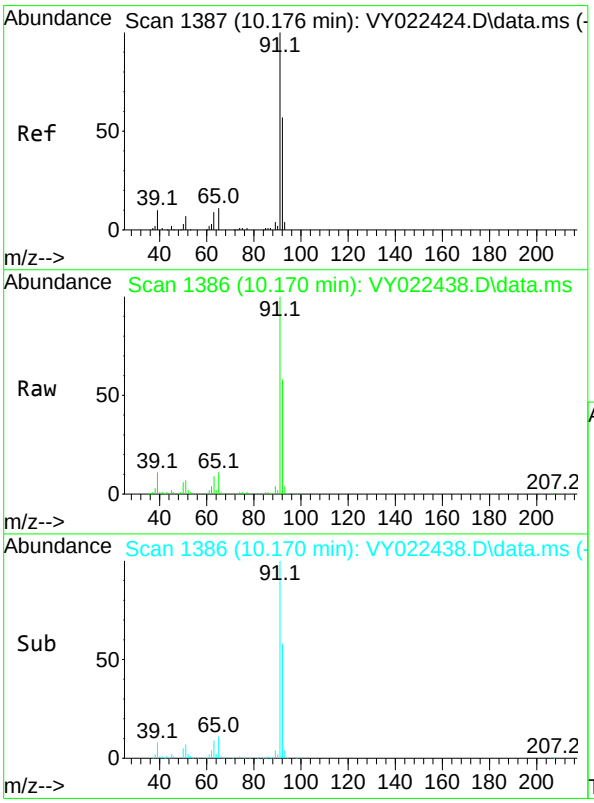
#51
4-Methyl-2-Pentanone
Concen: 292.551 ug/l
RT: 9.999 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 454081

Ion	Ratio	Lower	Upper
43	100		
58	38.8	31.2	46.8

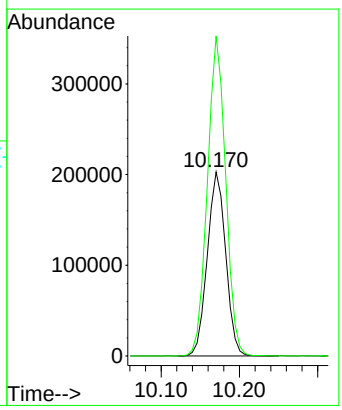


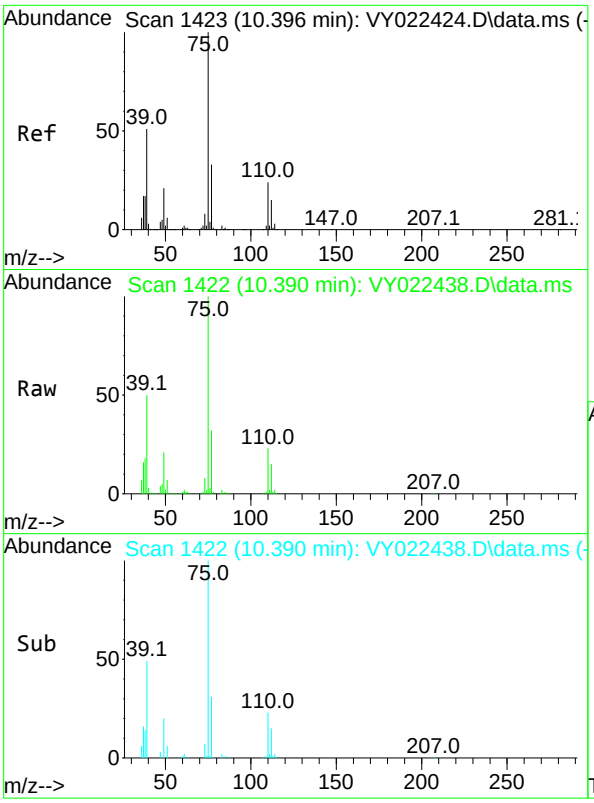


#52
Toluene
Concen: 52.475 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 92 Resp: 330369

Ion	Ratio	Lower	Upper
92	100		
91	172.7	139.8	209.6



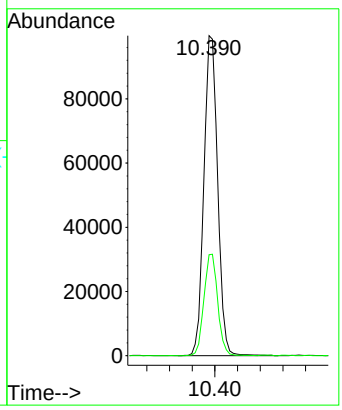


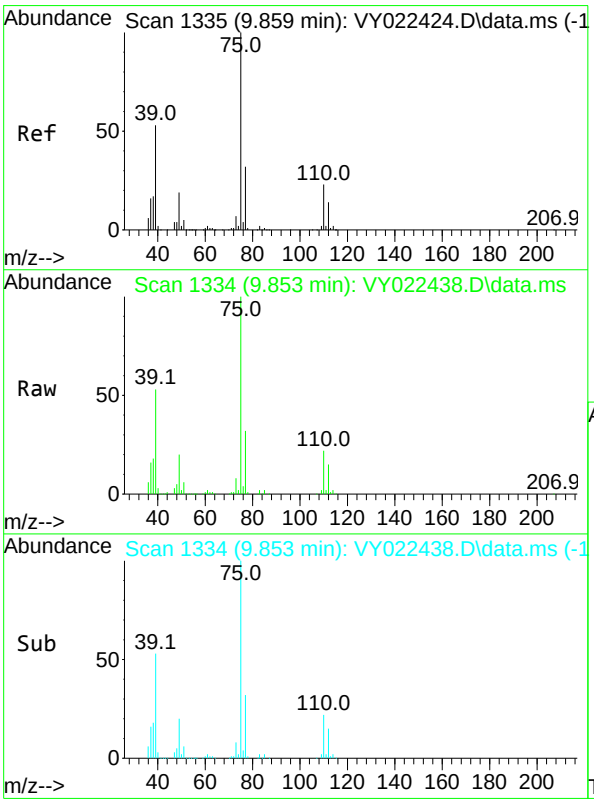
#53
t-1,3-Dichloropropene
Concen: 52.902 ug/l
RT: 10.390 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 75 Resp: 167640

Ion	Ratio	Lower	Upper
75	100		
77	31.6	26.2	39.2

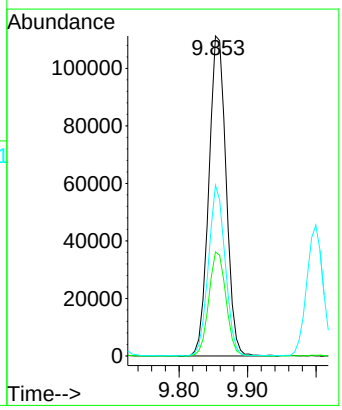


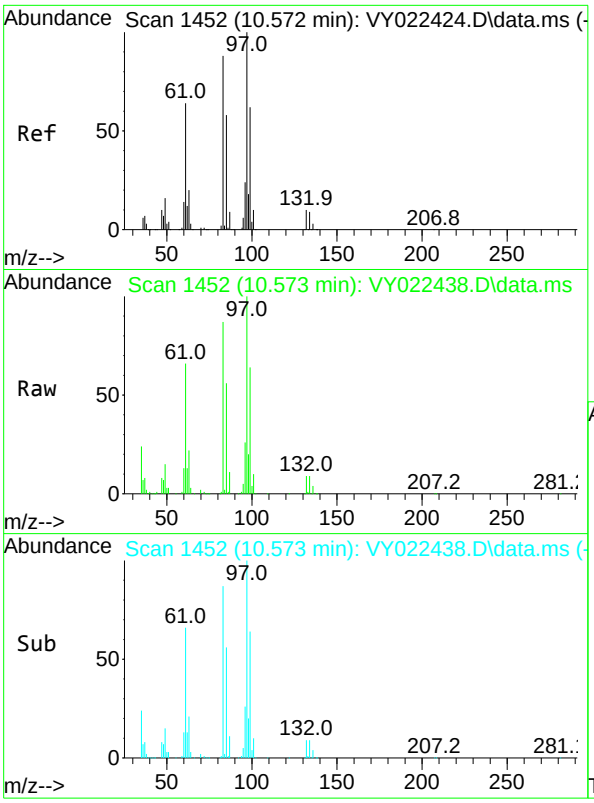


#54
cis-1,3-Dichloropropene
Concen: 52.274 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 75 Resp: 194643

Ion	Ratio	Lower	Upper
75	100		
77	32.5	25.4	38.2
39	53.3	42.5	63.7



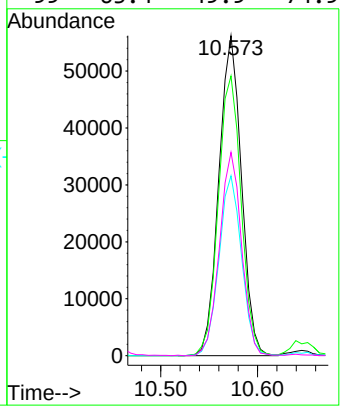


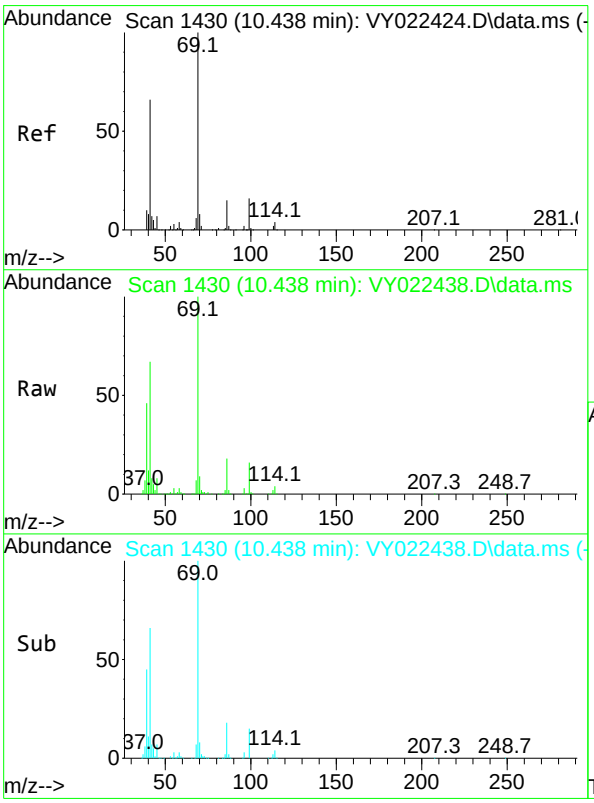
#55
1,1,2-Trichloroethane
Concen: 54.365 ug/l
RT: 10.573 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 97 Resp: 90934

Ion	Ratio	Lower	Upper
97	100		
83	87.4	70.2	105.4
85	56.2	46.1	69.1
99	63.4	49.9	74.9

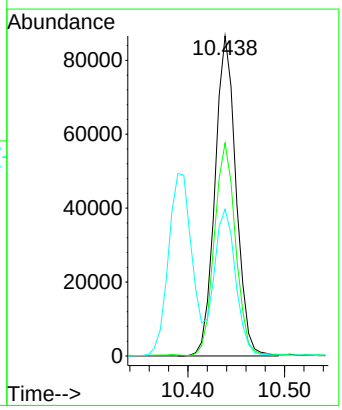


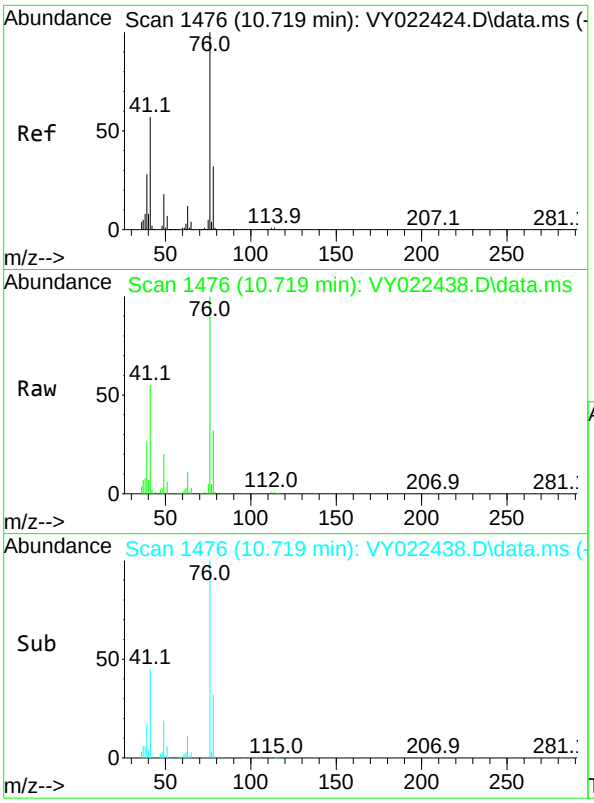


#56
Ethyl methacrylate
Concen: 54.468 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 69 Resp: 130742

Ion	Ratio	Lower	Upper
69	100		
41	67.1	51.2	76.8
39	47.1	35.2	52.8



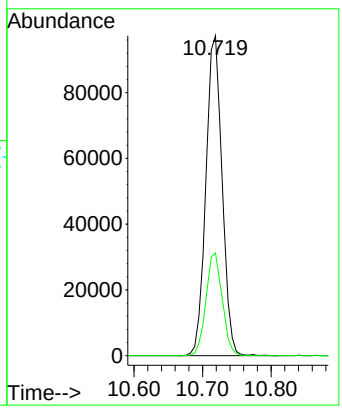


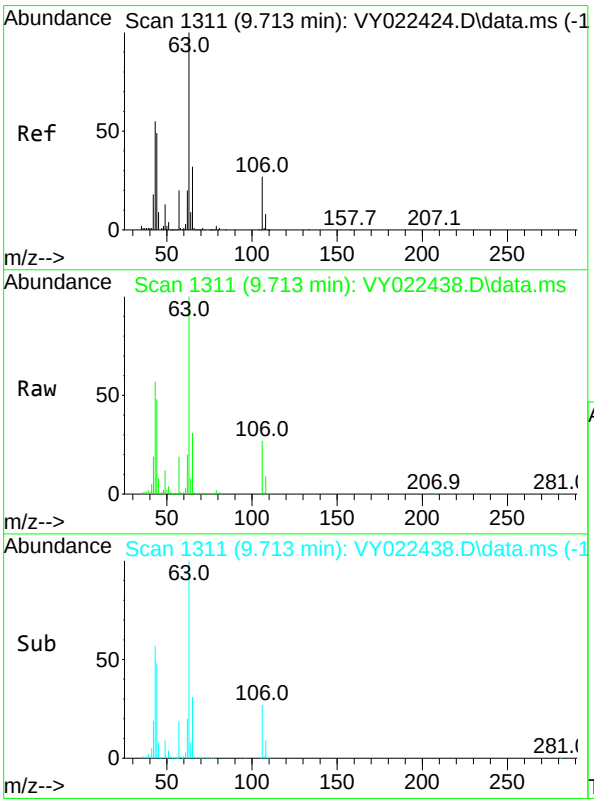
#57
1,3-Dichloropropane
Concen: 54.362 ug/l
RT: 10.719 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 76 Resp: 160238

Ion	Ratio	Lower	Upper
76	100		
78	32.2	25.8	38.8

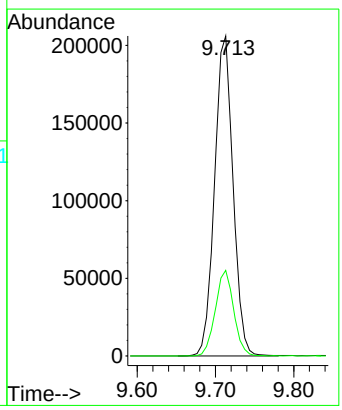


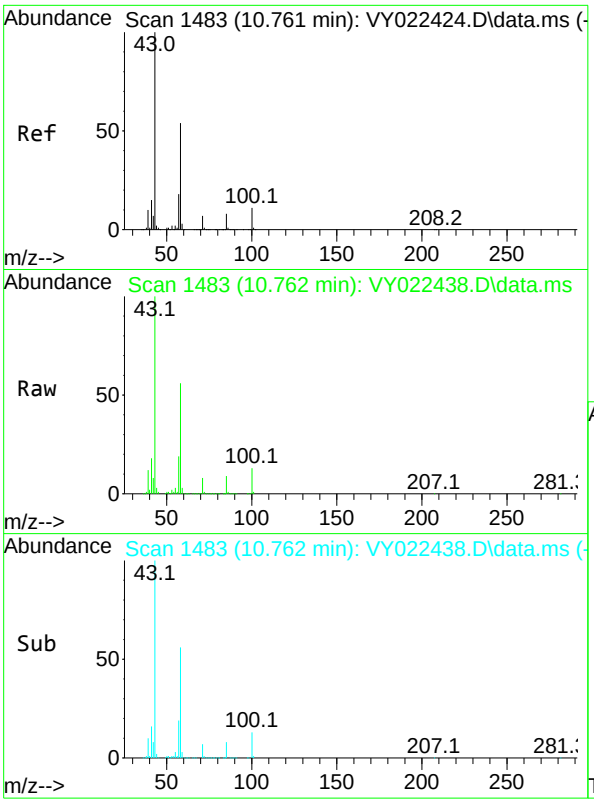


#58
2-Chloroethyl Vinyl ether
Concen: 282.246 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. 0.000 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 63 Resp: 337645

Ion	Ratio	Lower	Upper
63	100		
106	26.6	22.2	33.2



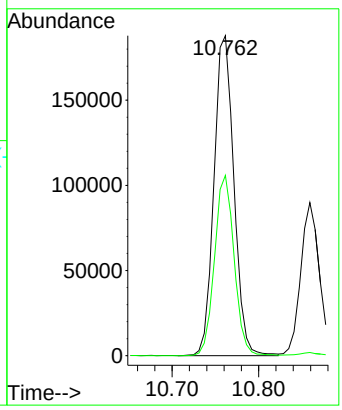


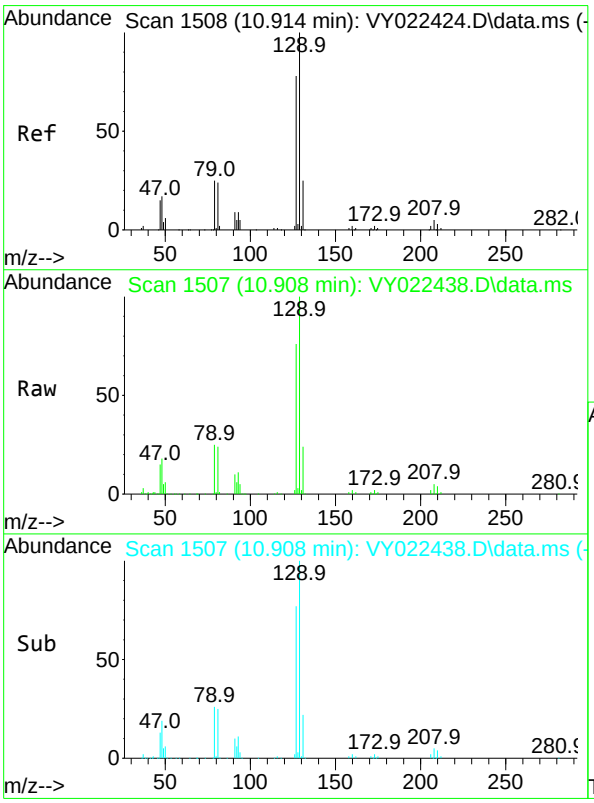
#59
2-Hexanone
Concen: 295.339 ug/l
RT: 10.762 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 300417

Ion	Ratio	Lower	Upper
43	100		
58	55.4	27.1	81.2

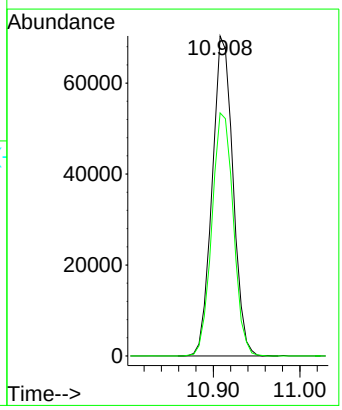


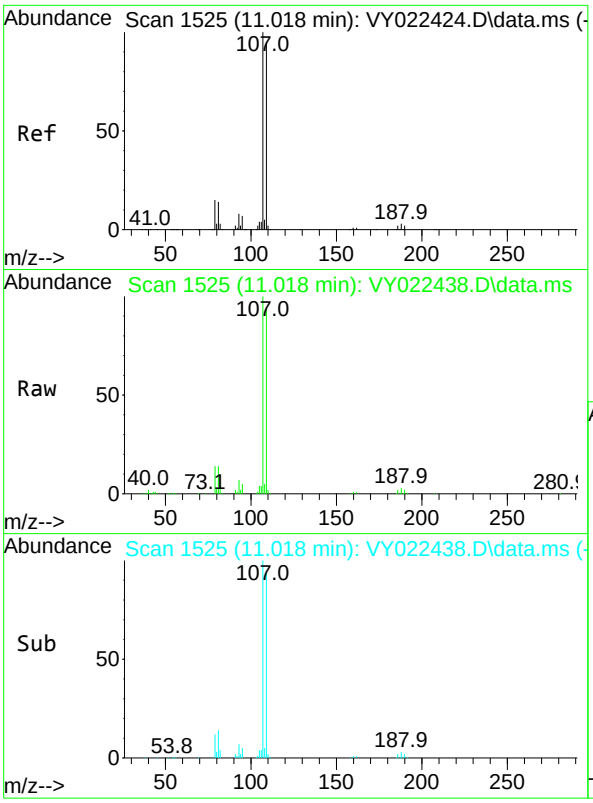


#60
Dibromochloromethane
Concen: 54.851 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion:129 Resp: 117196

Ion	Ratio	Lower	Upper
129	100		
127	78.4	38.3	114.8



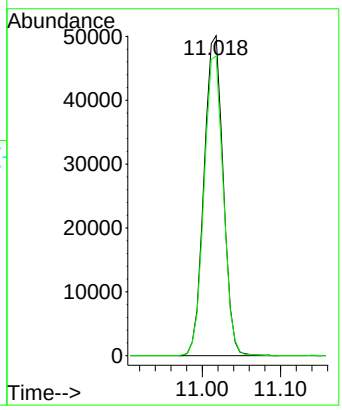


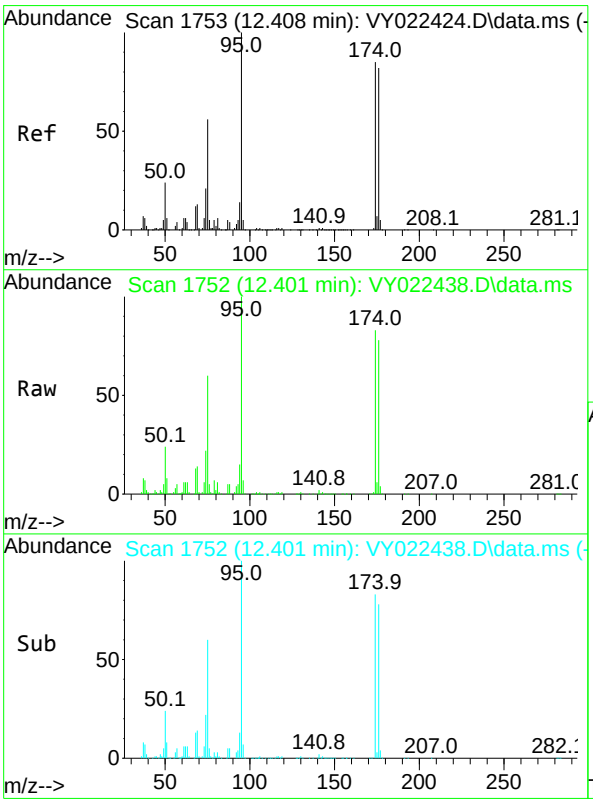
#61
1,2-Dibromoethane
Concen: 55.550 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:107 Resp: 84983

Ion	Ratio	Lower	Upper
107	100		
109	94.4	74.0	111.0

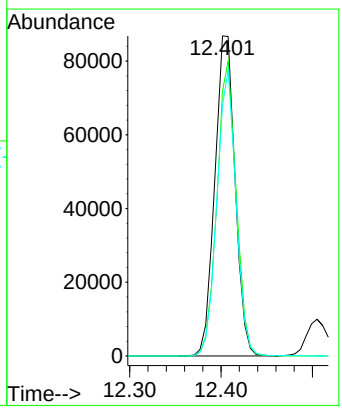


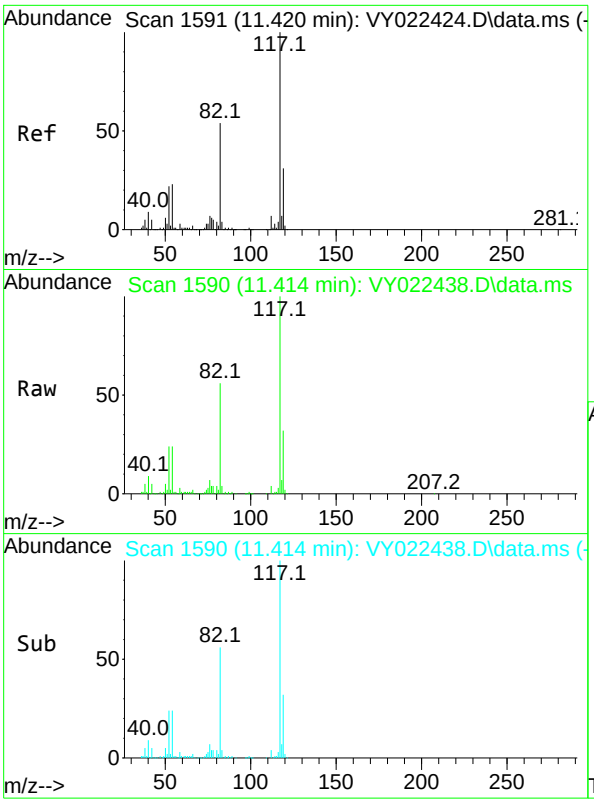


#62
4-Bromofluorobenzene
Concen: 50.890 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 95 Resp: 133956

Ion	Ratio	Lower	Upper
95	100		
174	87.5	0.0	171.6
176	84.0	0.0	164.6



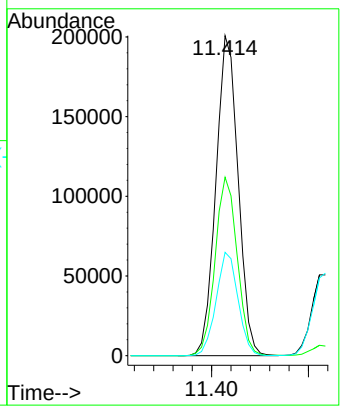


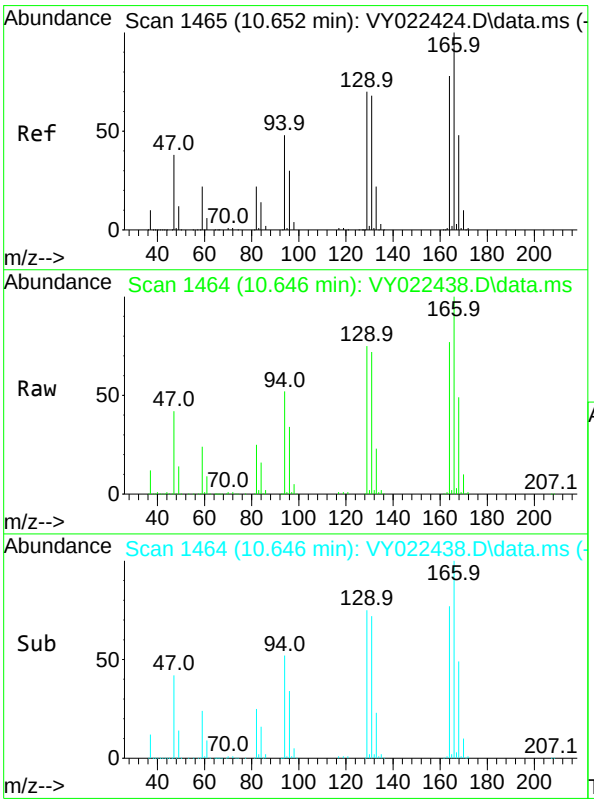
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:117 Resp: 319704

Ion	Ratio	Lower	Upper
117	100		
82	55.7	43.3	64.9
119	32.3	24.5	36.7

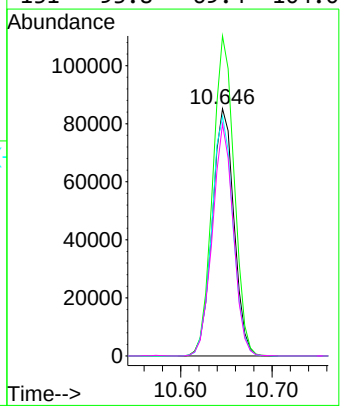


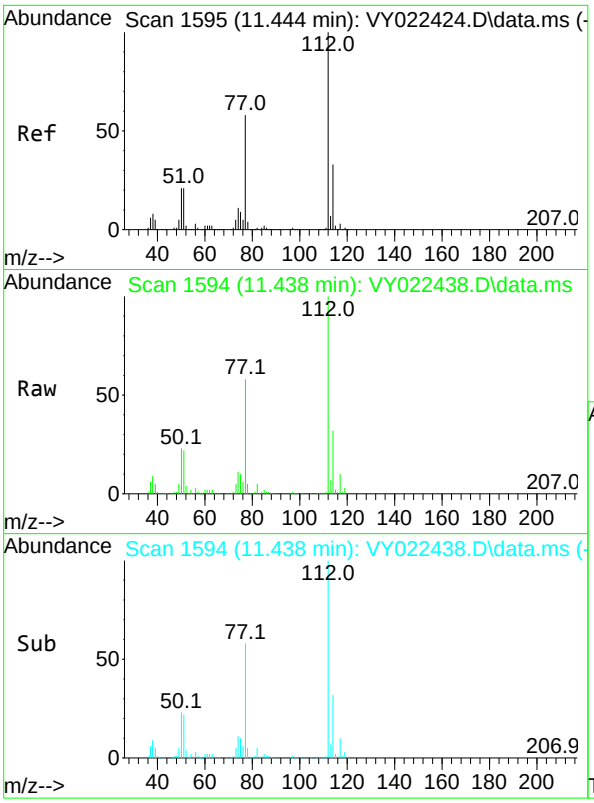


#64
Tetrachloroethene
Concen: 51.564 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion:164 Resp: 140398

Ion	Ratio	Lower	Upper
164	100		
166	129.4	102.0	153.0
129	97.0	71.3	106.9
131	93.8	69.4	104.0



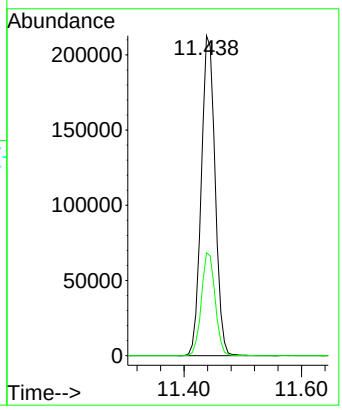


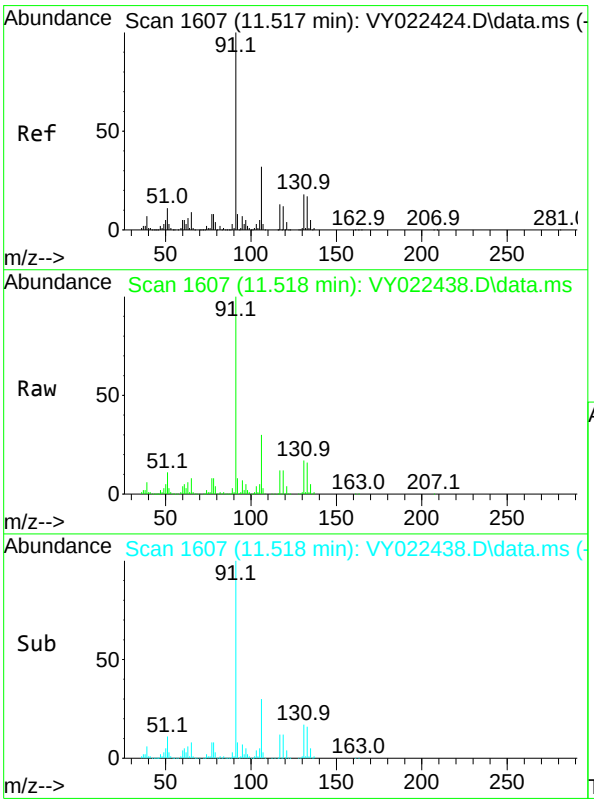
#65
Chlorobenzene
Concen: 51.070 ug/l
RT: 11.438 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:112 Resp: 348144

Ion	Ratio	Lower	Upper
112	100		
114	32.2	26.1	39.1

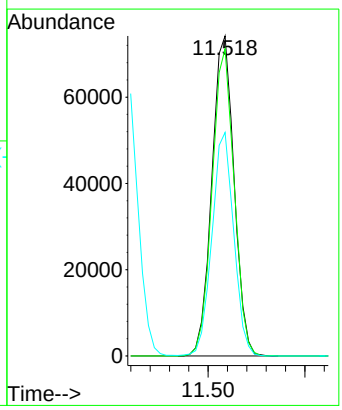


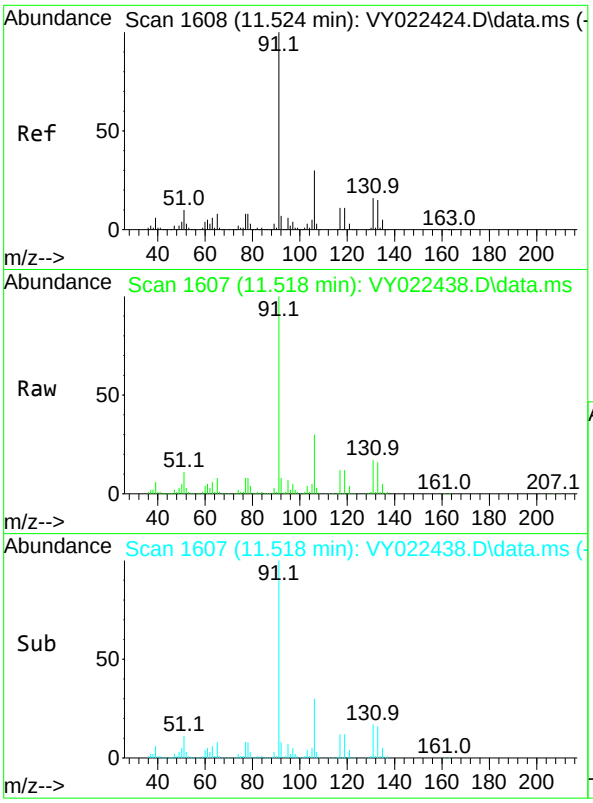


#66
1,1,1,2-Tetrachloroethane
Concen: 51.150 ug/l
RT: 11.518 min Scan# 1607
Delta R.T. 0.000 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion:131 Resp: 118142

Ion	Ratio	Lower	Upper
131	100		
133	95.0	46.6	139.8
119	68.5	33.3	99.8



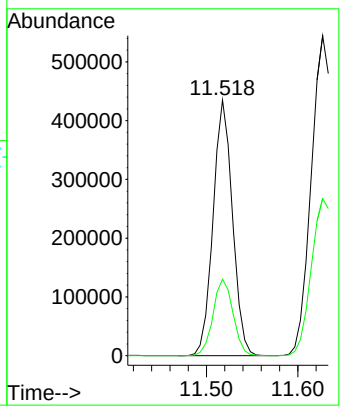


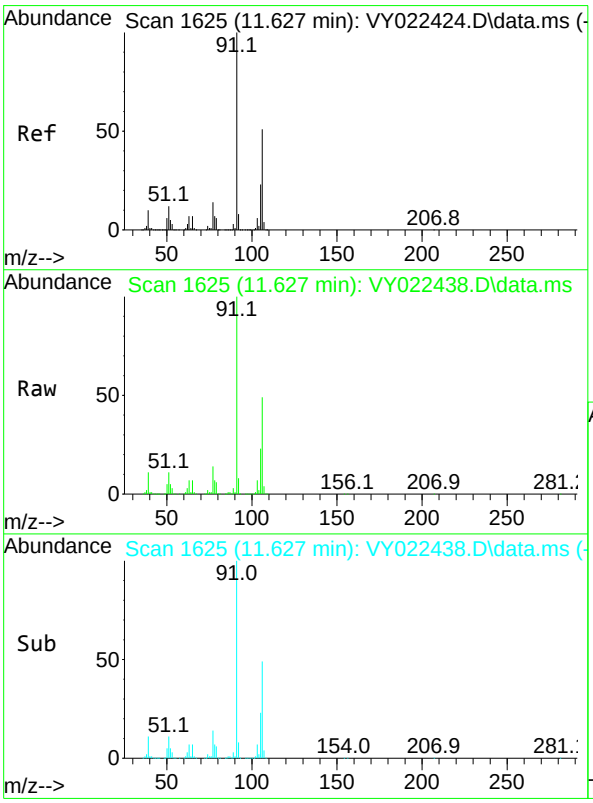
#67
Ethyl Benzene
Concen: 50.620 ug/l
RT: 11.518 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 640745

Ion	Ratio	Lower	Upper
91	100		
106	29.9	24.4	36.6

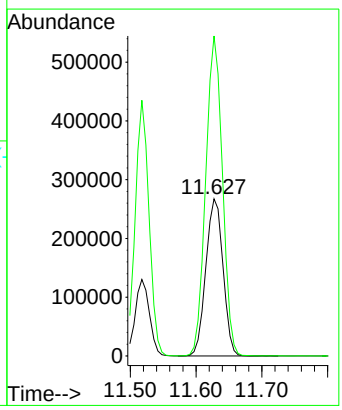


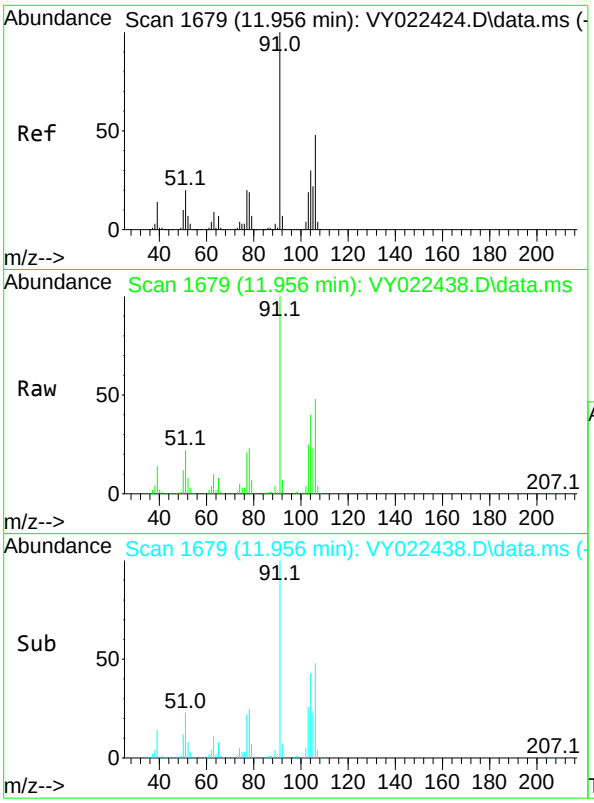


#68
m/p-Xylenes
Concen: 101.074 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.000 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion:106 Resp: 485062

Ion	Ratio	Lower	Upper
106	100		
91	198.6	159.8	239.8



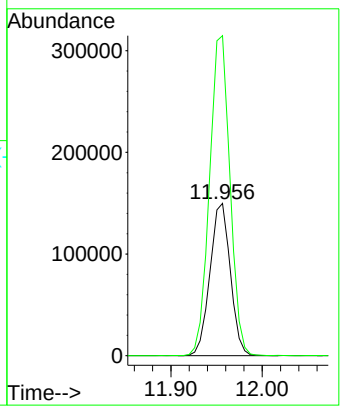


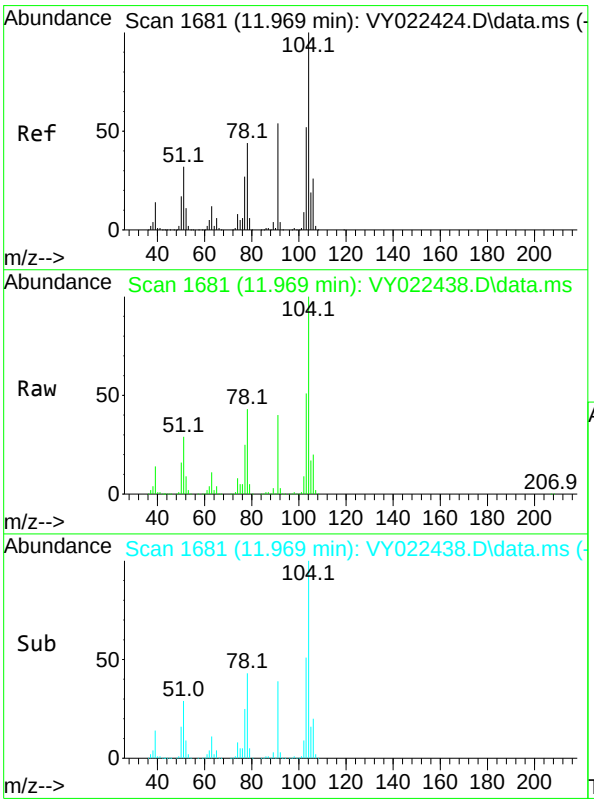
#69
o-Xylene
Concen: 51.375 ug/l
RT: 11.956 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:106 Resp: 231722

Ion	Ratio	Lower	Upper
106	100		
91	211.1	106.3	318.9

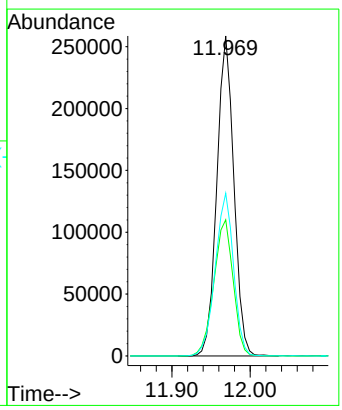


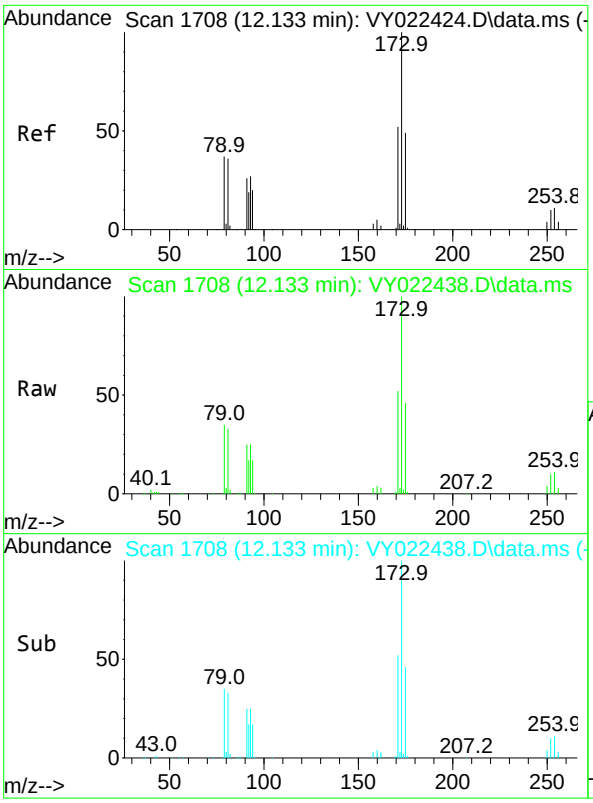


#70
Styrene
Concen: 52.127 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion:104 Resp: 391490

Ion	Ratio	Lower	Upper
104	100		
78	48.1	38.8	58.2
103	54.9	43.4	65.2



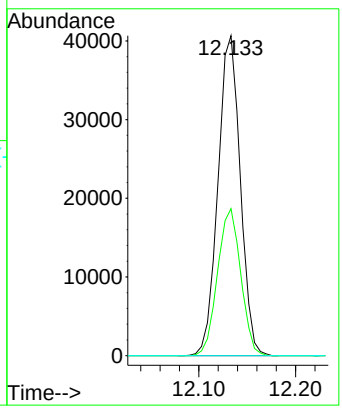


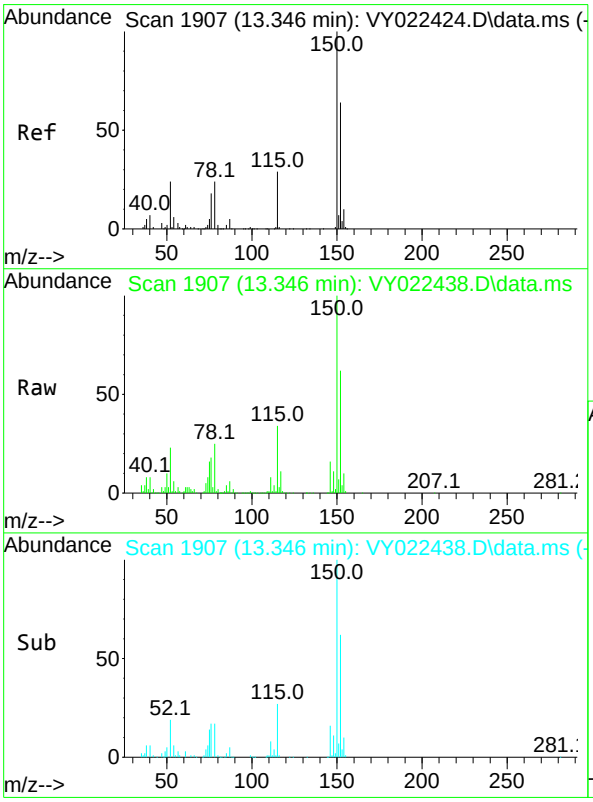
#71
Bromoform
Concen: 53.724 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:173 Resp: 64997

Ion	Ratio	Lower	Upper
173	100		
175	47.8	24.3	73.0
254	0.0	0.1	0.1#

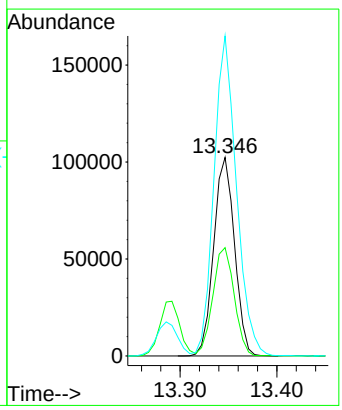


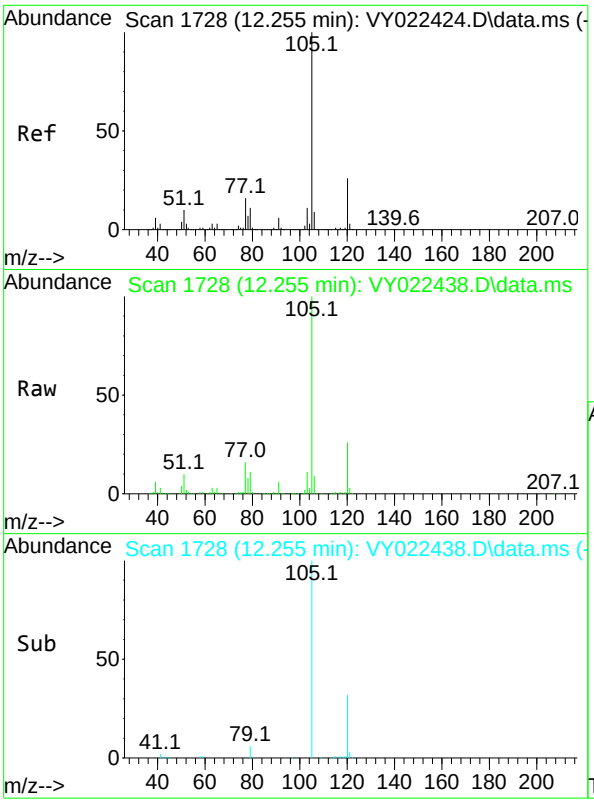


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion:152 Resp: 153246

Ion	Ratio	Lower	Upper
152	100		
115	56.2	28.4	85.3
150	174.3	0.0	345.8



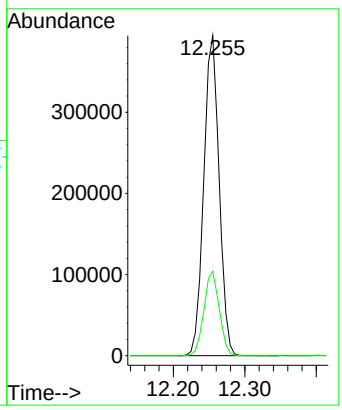


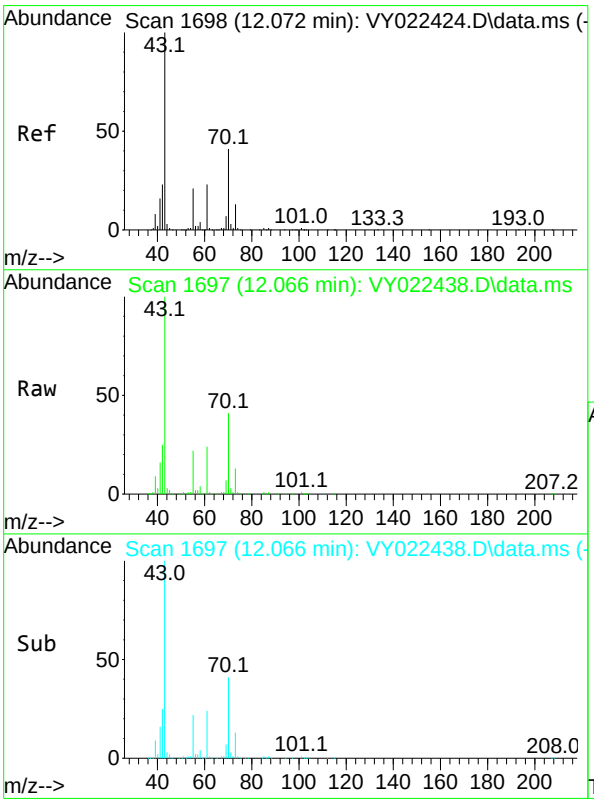
#73
Isopropylbenzene
Concen: 48.816 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:105 Resp: 588766

Ion	Ratio	Lower	Upper
105	100		
120	26.2	13.2	39.5

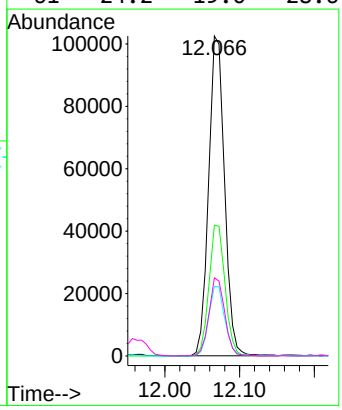


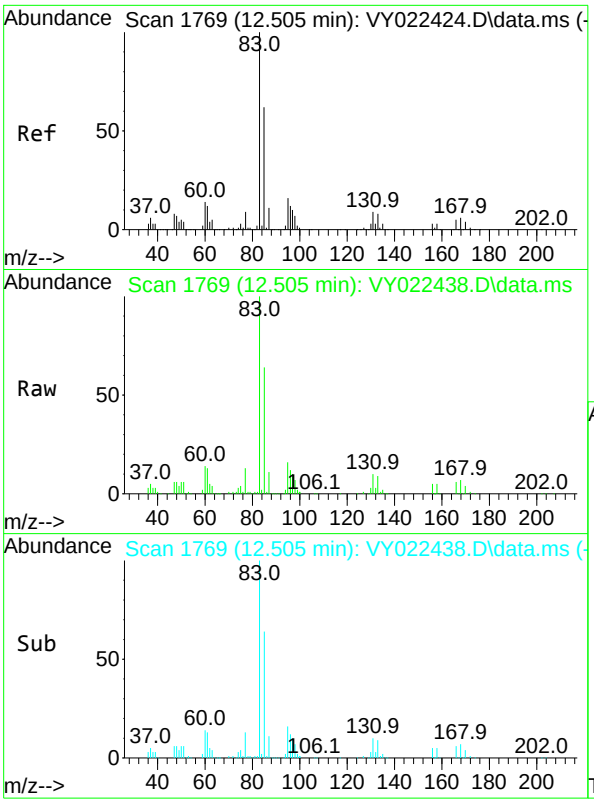


#74
N-amyl acetate
Concen: 51.341 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 43 Resp: 151521

Ion	Ratio	Lower	Upper
43	100		
70	41.5	33.0	49.4
55	22.2	17.5	26.3
61	24.2	19.0	28.6



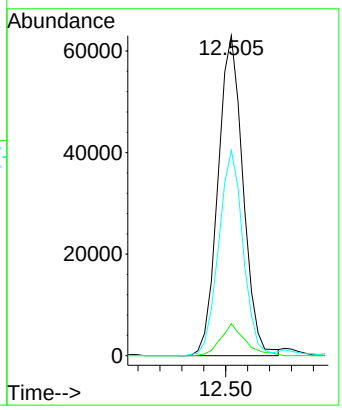


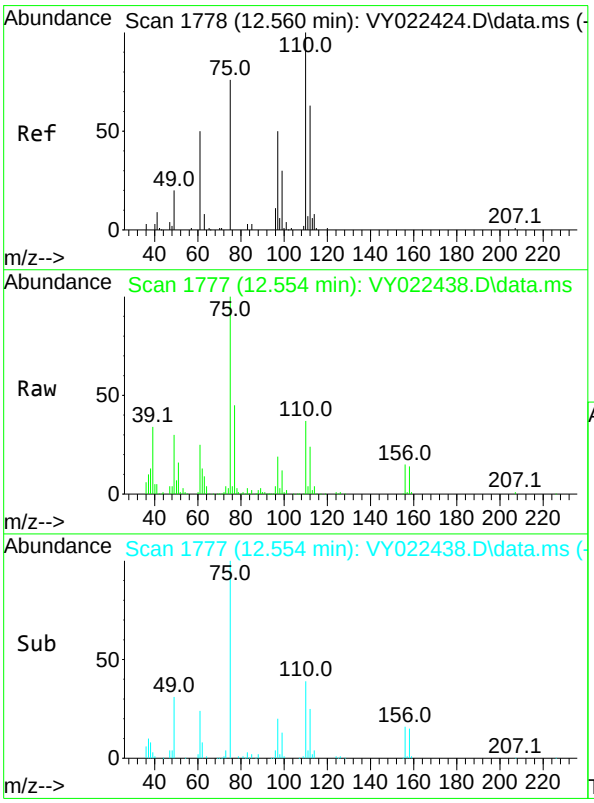
#75
1,1,2,2-Tetrachloroethane
Concen: 52.620 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 99990

Ion	Ratio	Lower	Upper
83	100		
131	9.8	4.8	14.4
85	62.3	32.0	96.2

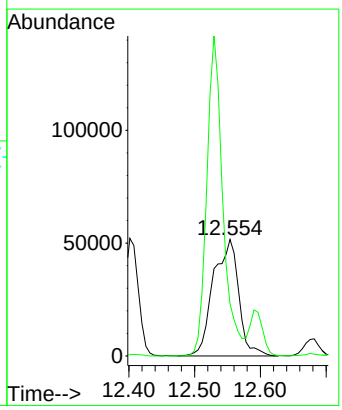


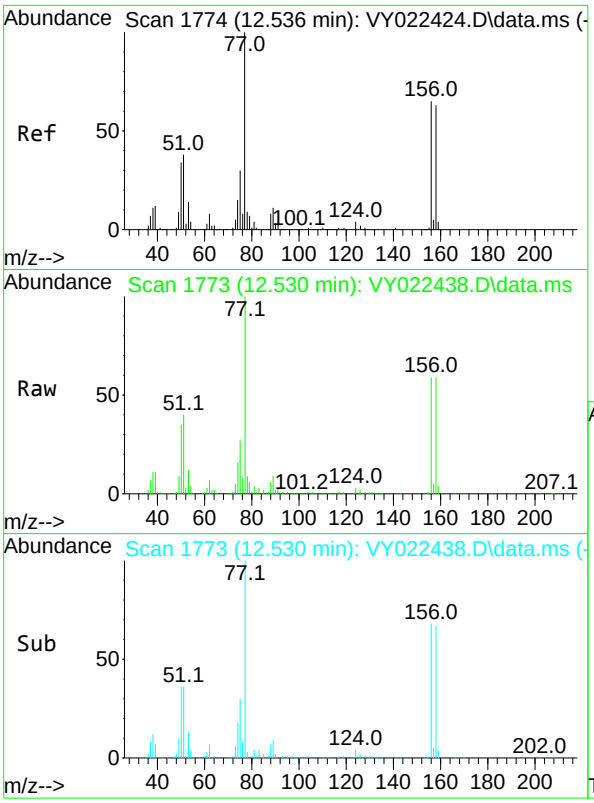


#76
1,2,3-Trichloropropane
Concen: 90.568 ug/l
RT: 12.554 min Scan# 1777
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 75 Resp: 139022

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0



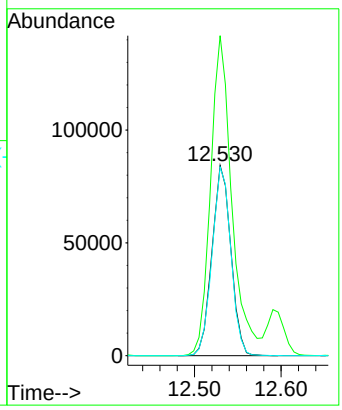


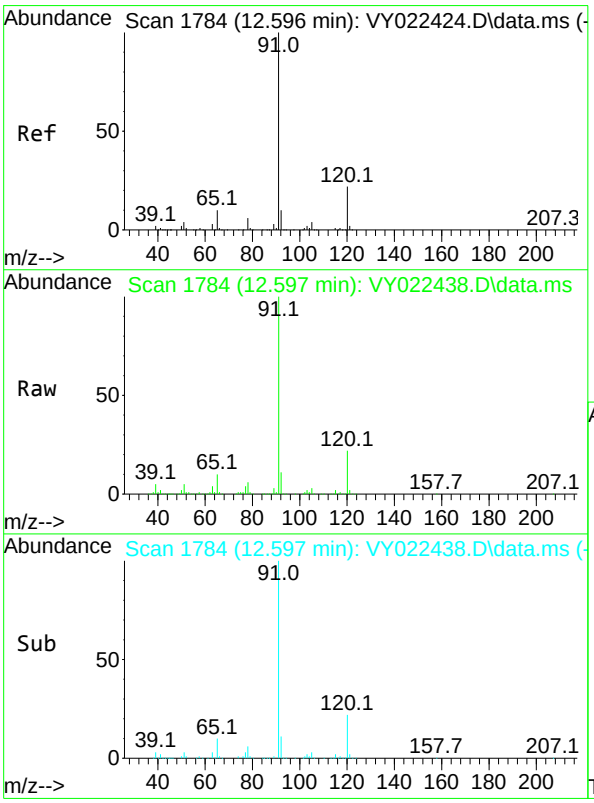
#77
Bromobenzene
Concen: 49.317 ug/l
RT: 12.530 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:156 Resp: 128001

Ion	Ratio	Lower	Upper
156	100		
77	187.8	91.4	274.2
158	98.4	48.1	144.3

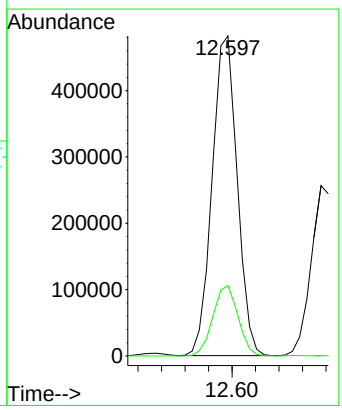


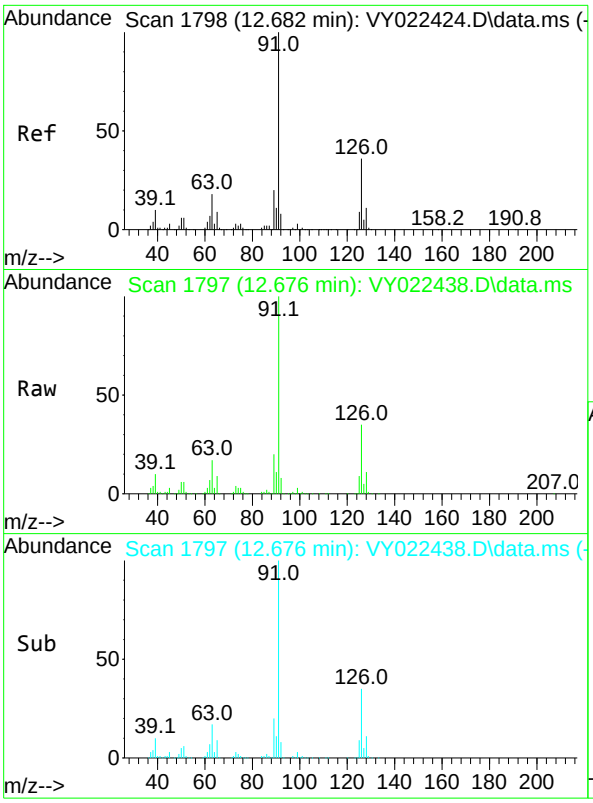


#78
n-propylbenzene
Concen: 49.384 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 91 Resp: 714786

Ion	Ratio	Lower	Upper
91	100		
120	22.1	11.2	33.5



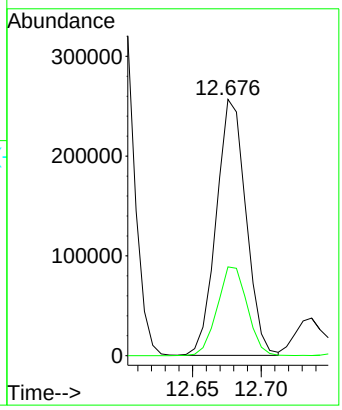


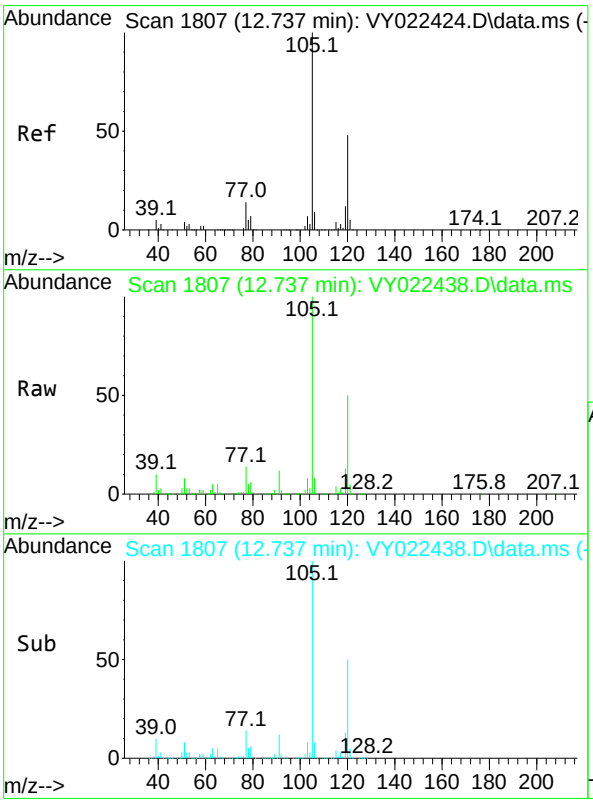
#79
2-Chlorotoluene
Concen: 49.327 ug/l
RT: 12.676 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 386484

Ion	Ratio	Lower	Upper
91	100		
126	35.1	17.4	52.3

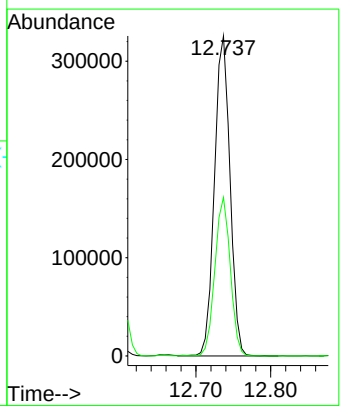


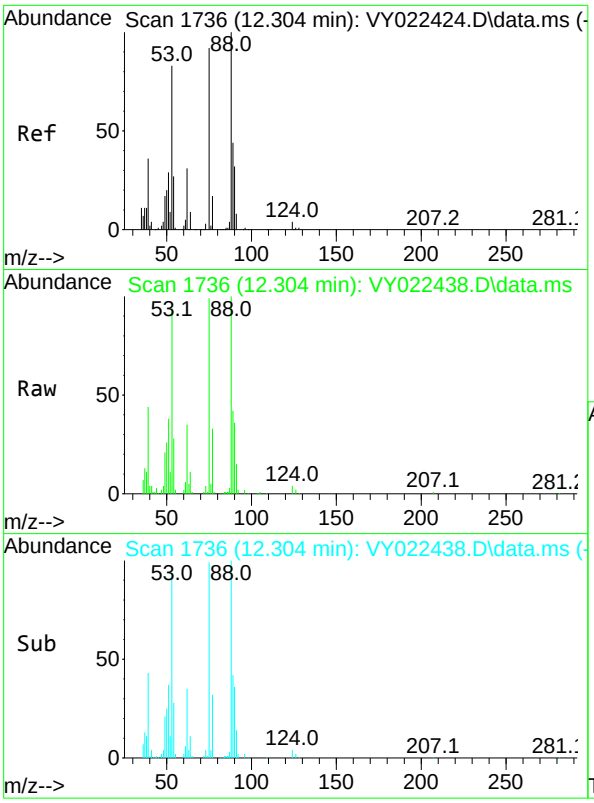


#80
1,3,5-Trimethylbenzene
Concen: 49.937 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion:105 Resp: 470592

Ion	Ratio	Lower	Upper
105	100		
120	49.1	24.3	73.0



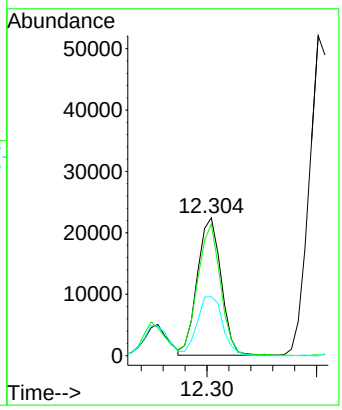


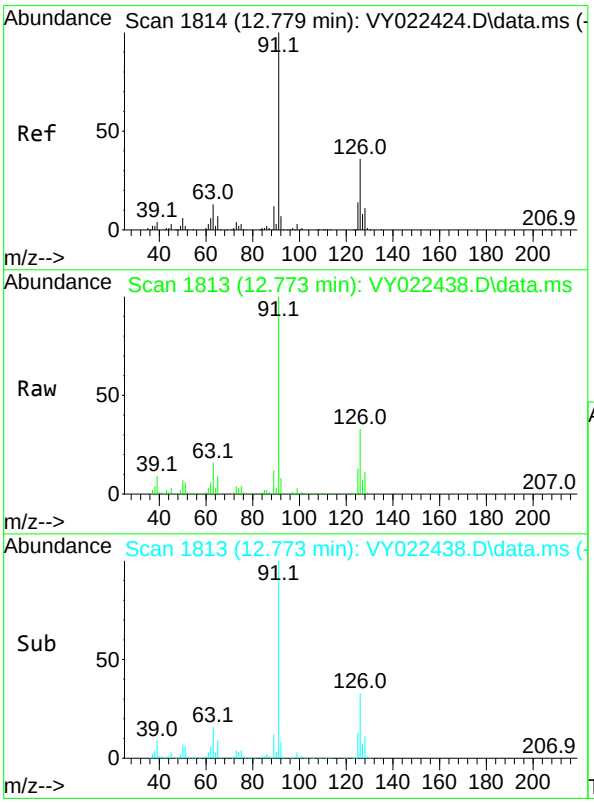
#81
trans-1,4-Dichloro-2-butene
Concen: 49.765 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 75 Resp: 33779

Ion	Ratio	Lower	Upper
75	100		
53	93.5	75.1	112.7
89	46.3	37.4	56.0

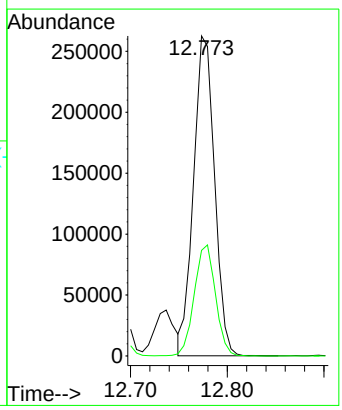


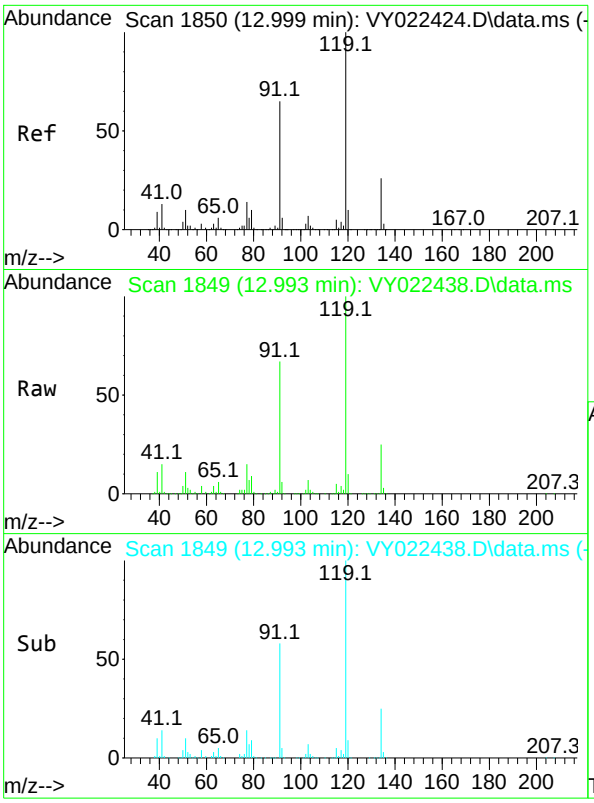


#82
4-Chlorotoluene
Concen: 49.180 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 91 Resp: 396857

Ion	Ratio	Lower	Upper
91	100		
126	35.1	17.2	51.6



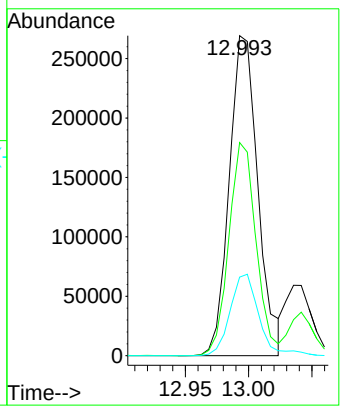


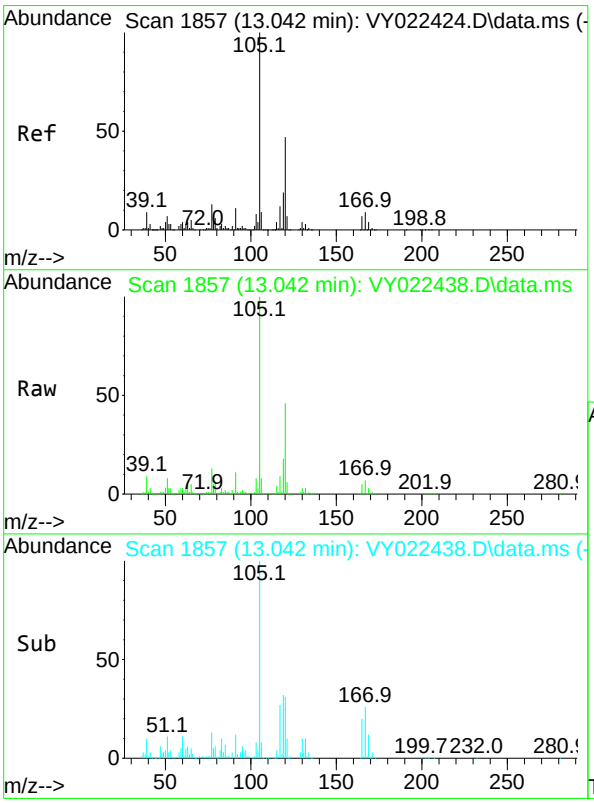
#83
tert-Butylbenzene
Concen: 49.935 ug/l
RT: 12.993 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:119 Resp: 425162

Ion	Ratio	Lower	Upper
119	100		
91	63.2	31.8	95.3
134	25.6	13.0	38.9

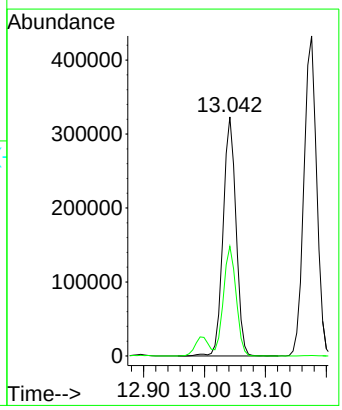


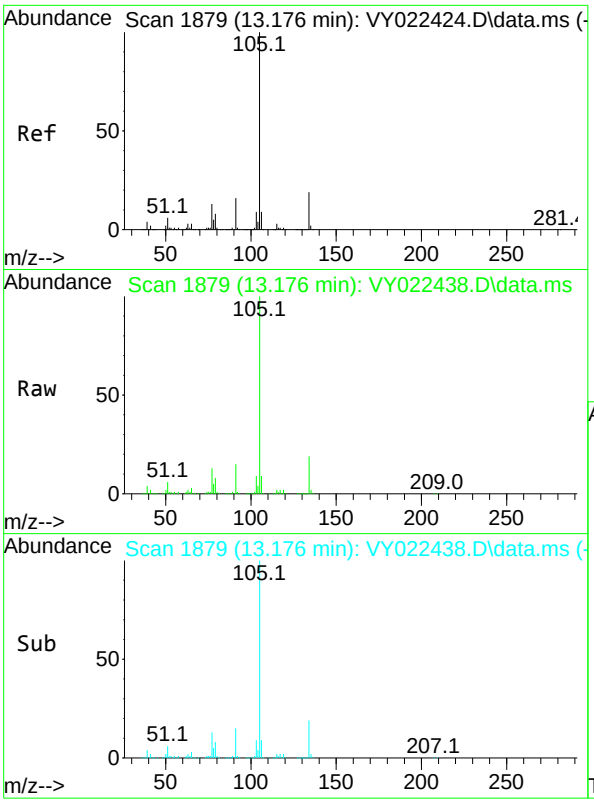


#84
1,2,4-Trimethylbenzene
Concen: 50.013 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.000 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion:105 Resp: 474294

Ion	Ratio	Lower	Upper
105	100		
120	44.7	22.9	68.5



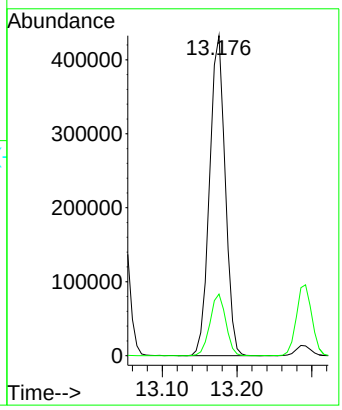


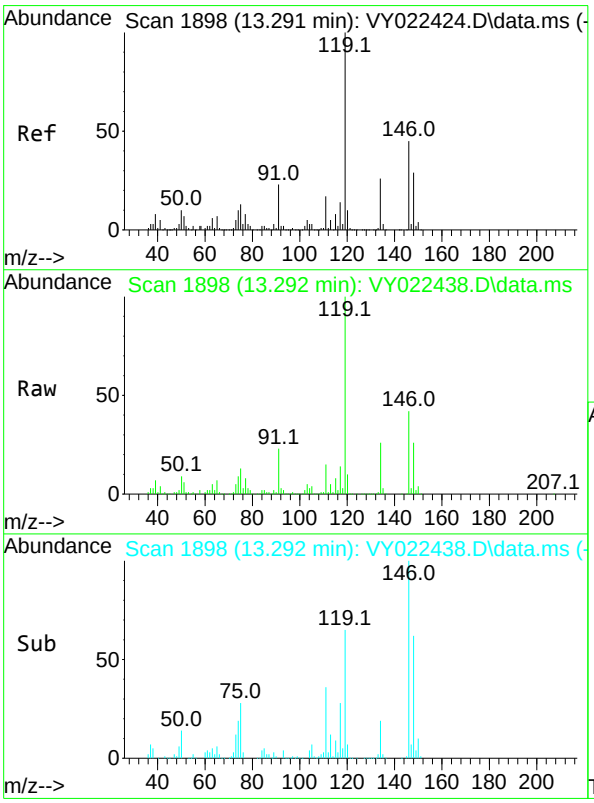
#85
sec-Butylbenzene
Concen: 49.747 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:105 Resp: 628153

Ion	Ratio	Lower	Upper
105	100		
134	19.4	9.7	29.1

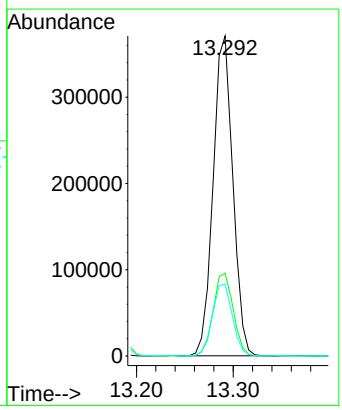


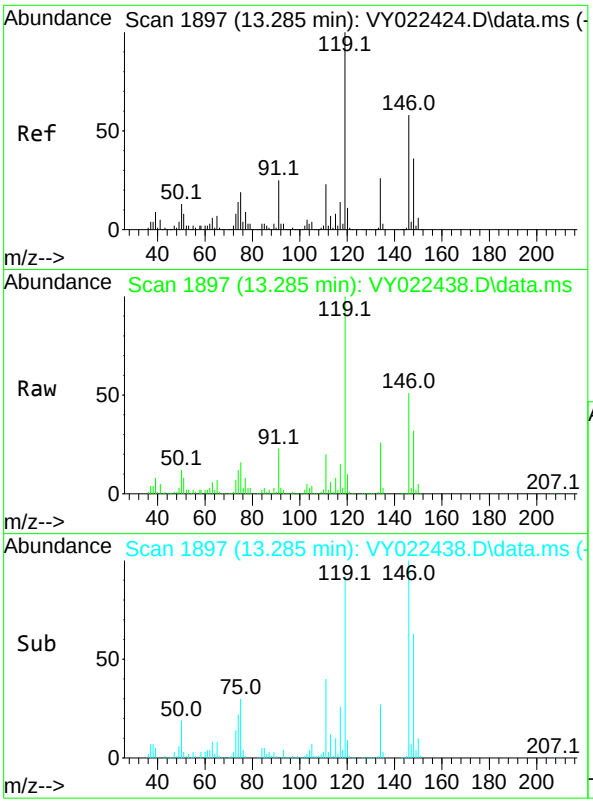


#86
p-Isopropyltoluene
Concen: 49.668 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.000 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion:119 Resp: 523705

Ion	Ratio	Lower	Upper
119	100		
134	26.2	13.0	39.0
91	23.0	11.6	34.8



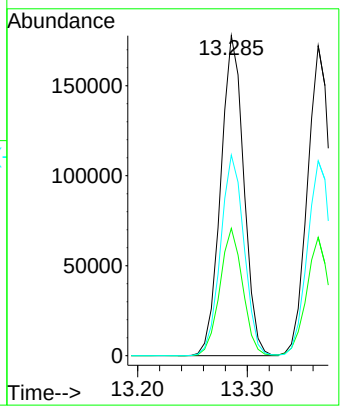


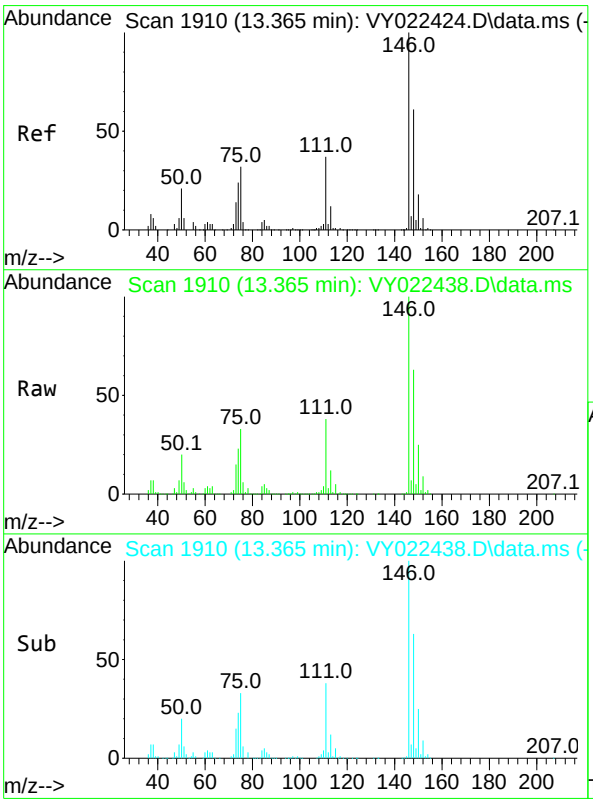
#87
1,3-Dichlorobenzene
Concen: 49.914 ug/l
RT: 13.285 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:146 Resp: 260669

Ion	Ratio	Lower	Upper
146	100		
111	39.4	19.6	58.8
148	63.7	31.7	95.1

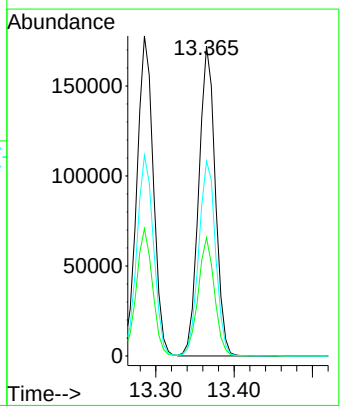


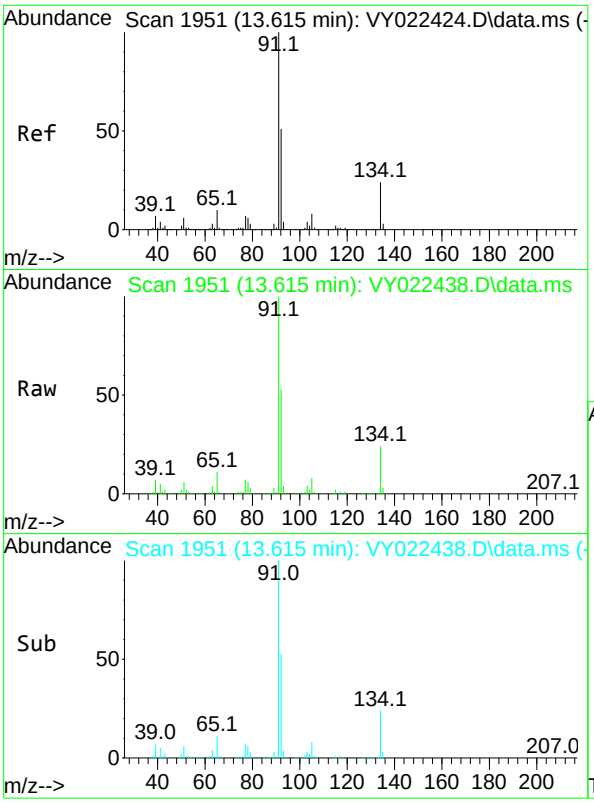


#88
1,4-Dichlorobenzene
Concen: 50.528 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.000 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion:146 Resp: 252310

Ion	Ratio	Lower	Upper
146	100		
111	37.7	18.7	56.1
148	64.1	31.4	94.3



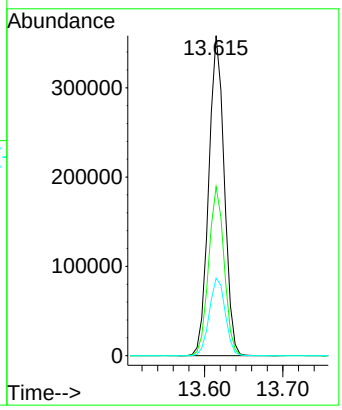


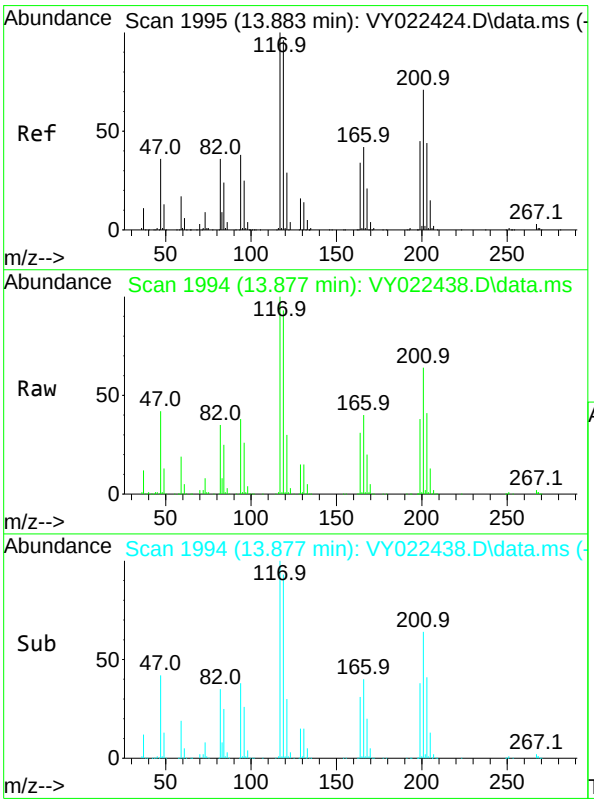
#89
n-Butylbenzene
Concen: 49.721 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 491561

Ion	Ratio	Lower	Upper
91	100		
92	52.7	25.9	77.6
134	24.9	12.4	37.0

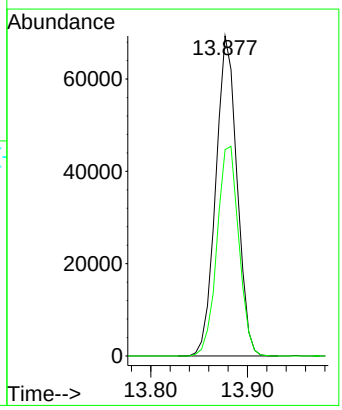


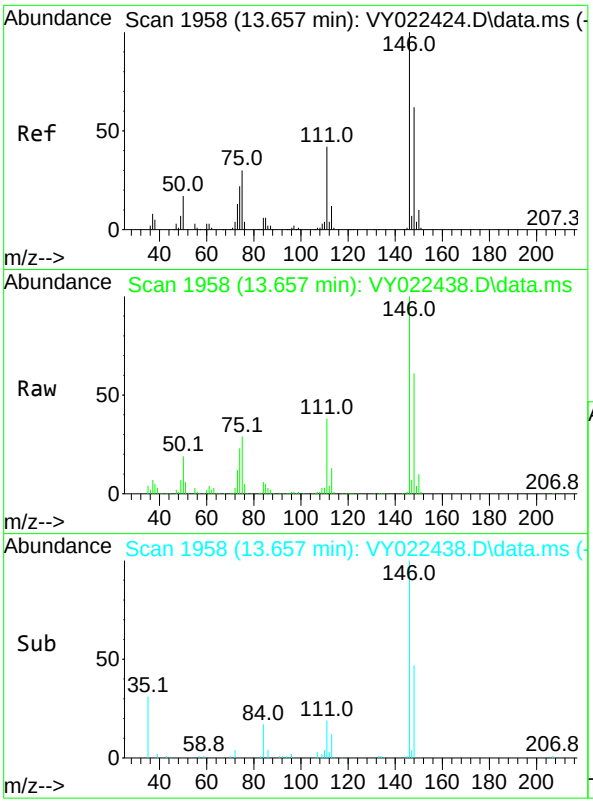


#90
Hexachloroethane
Concen: 50.407 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion:117 Resp: 105769

Ion	Ratio	Lower	Upper
117	100		
201	67.3	35.0	105.0



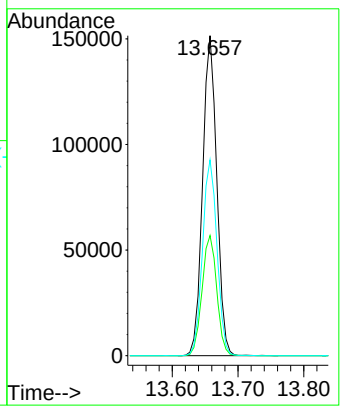


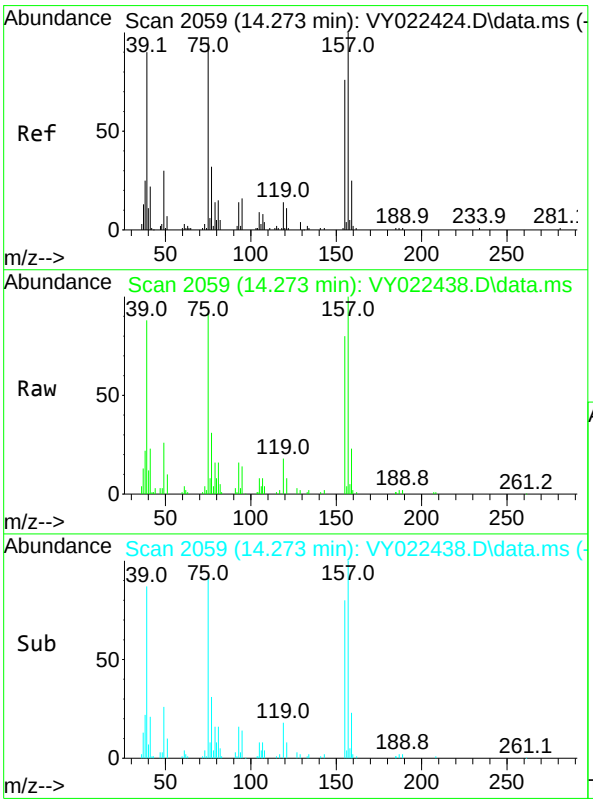
#91
1,2-Dichlorobenzene
Concen: 52.043 ug/l
RT: 13.657 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:146 Resp: 227011

Ion	Ratio	Lower	Upper
146	100		
111	38.9	20.5	61.6
148	62.6	31.9	95.9

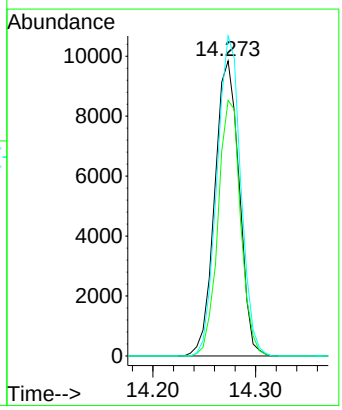


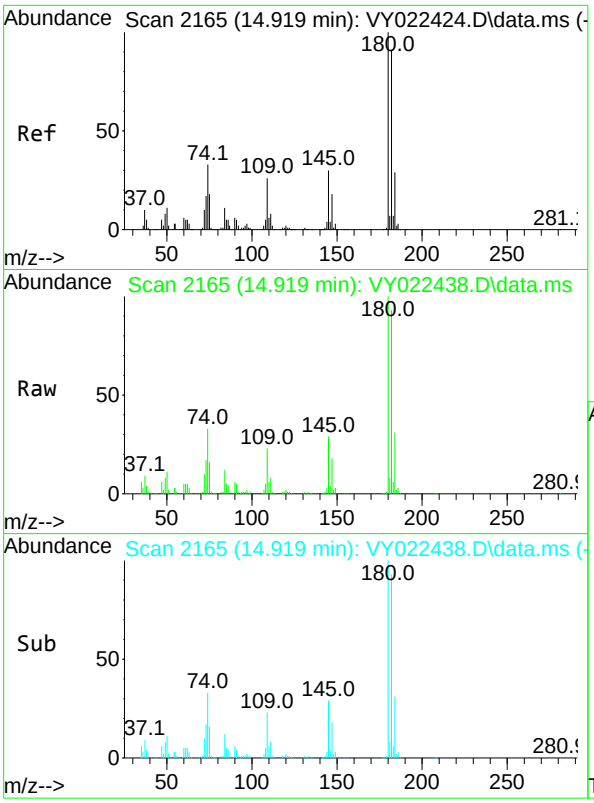


#92
1,2-Dibromo-3-Chloropropane
Concen: 55.375 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.000 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion: 75 Resp: 16260

Ion	Ratio	Lower	Upper
75	100		
155	80.1	42.3	126.8
157	105.5	54.4	163.3



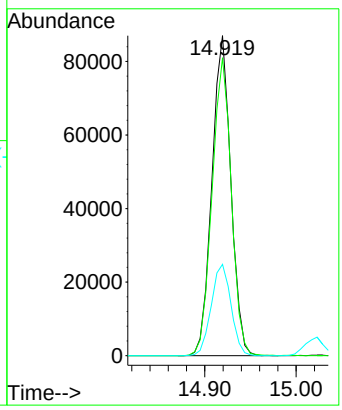


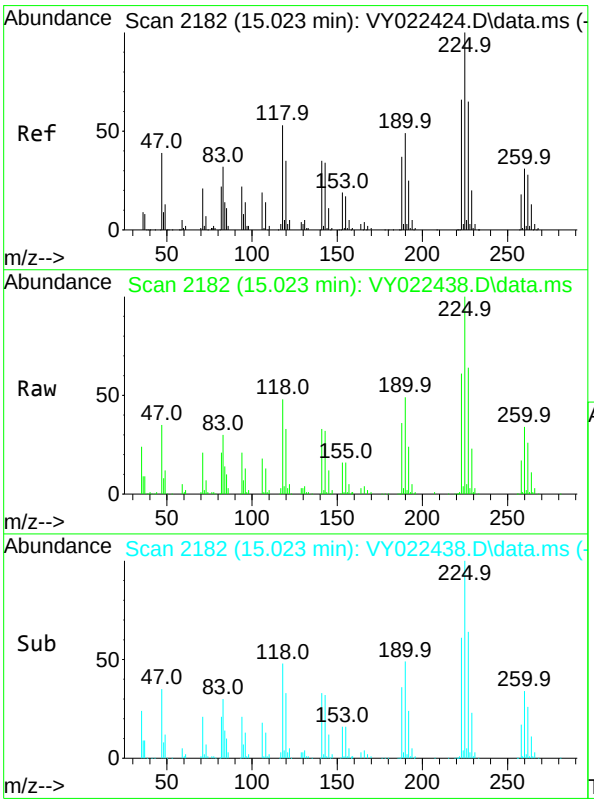
#93
1,2,4-Trichlorobenzene
Concen: 51.685 ug/l
RT: 14.919 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

Tgt Ion:180 Resp: 124984

Ion	Ratio	Lower	Upper
180	100		
182	94.7	46.2	138.6
145	29.8	14.2	42.8

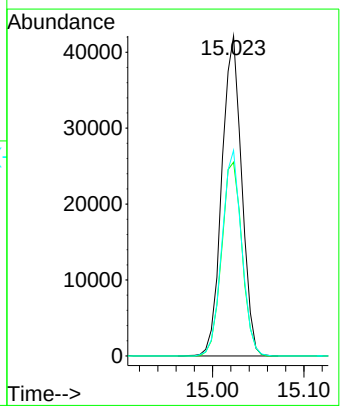


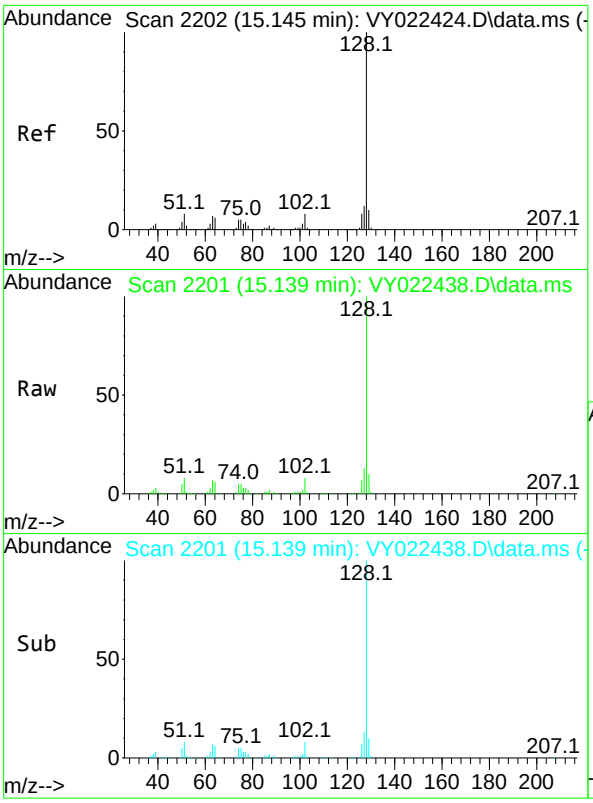


#94
Hexachlorobutadiene
Concen: 50.042 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.000 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion:225 Resp: 63507

Ion	Ratio	Lower	Upper
225	100		
223	62.2	32.6	97.7
227	63.9	33.0	99.0



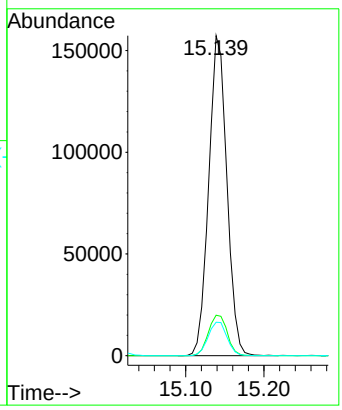


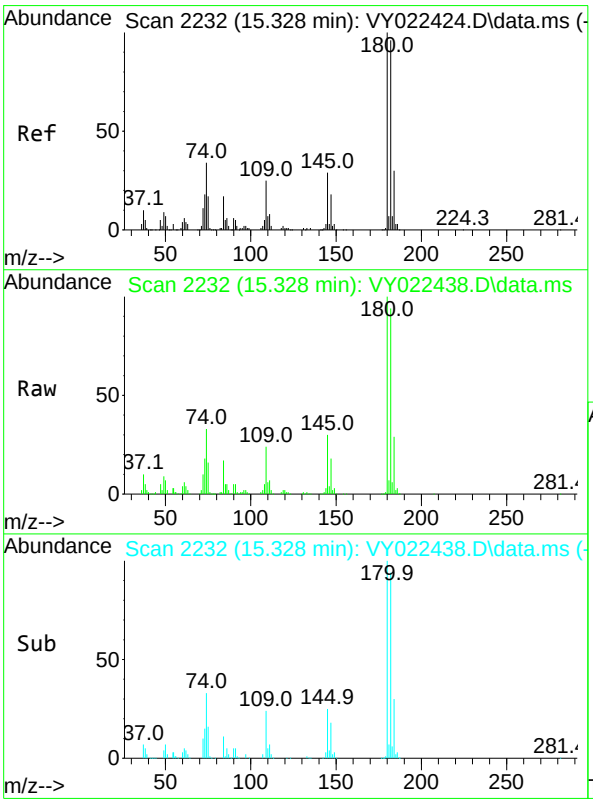
#95
Naphthalene
Concen: 56.592 ug/l
RT: 15.139 min Scan# 2
Delta R.T. -0.006 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050EC

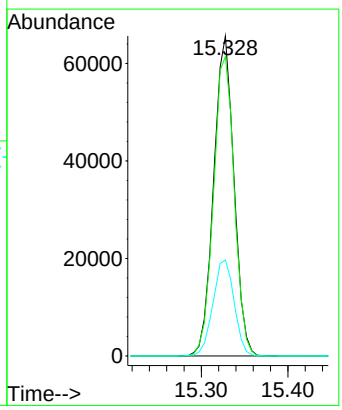
Tgt Ion:128 Resp: 252996

Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.2	15.4
129	11.0	8.5	12.7





#96
1,2,3-Trichlorobenzene
Concen: 53.776 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. 0.000 min
Lab File: VY022438.D
Acq: 27 May 2025 17:10

Tgt Ion:180 Resp: 106651

Ion	Ratio	Lower	Upper
180	100		
182	95.8	48.1	144.3
145	31.3	14.9	44.5